

July 08, 2020

Vista Work Order No. 2000997

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 May 01, 2020 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. 2000997

Case Narrative

Sample Condition on Receipt:

Eleven 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

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

Quality Control

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

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

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

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2000997-01	PDI-061SC-A-03-04-200428	28-Apr-20 13:57	01-May-20 09:04	Amber Glass, 120 mL
2000997-02	PDI-061SC-A-04-05-200428	28-Apr-20 13:57	01-May-20 09:04	Amber Glass, 120 mL
2000997-03	PDI-061SC-A-05-06-200428	28-Apr-20 13:57	01-May-20 09:04	Amber Glass, 120 mL
2000997-04	PDI-061SC-A-06-07-200428	28-Apr-20 13:57	01-May-20 09:04	Amber Glass, 120 mL
2000997-05	PDI-061SC-A-07-08-200428	28-Apr-20 13:57	01-May-20 09:04	Amber Glass, 120 mL
2000997-06	PDI-061SC-A-08-09-200428	28-Apr-20 13:57	01-May-20 09:04	Amber Glass, 120 mL
2000997-07	PDI-061SC-A-09-9.9-200428	28-Apr-20 13:57	01-May-20 09:04	Amber Glass, 120 mL
2000997-08	PDI-061SC-B-00-02-200428	28-Apr-20 13:40	01-May-20 09:04	Amber Glass, 120 mL
2000997-09	PDI-061SC-B-02-04-200428	28-Apr-20 13:40	01-May-20 09:04	Amber Glass, 120 mL
2000997-10	PDI-061SC-B-04-06-200428	28-Apr-20 13:40	01-May-20 09:04	Amber Glass, 120 mL
2000997-11	PDI-061SC-B-06-08-200428	28-Apr-20 13:40	01-May-20 09:04	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0E0067 Date Extracted: 08-May-2020 13:49		Lab Sample: B0E0067-BLK1 Date Analyzed: 04-Jun-20 10:35 Column: ZB-5MS				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0814			IS 13C-2,3,7,8-TCDD	85.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0792			13C-1,2,3,7,8-PeCDD	78.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.137			13C-1,2,3,4,7,8-HxCDD	74.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.129			13C-1,2,3,6,7,8-HxCDD	74.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.151			13C-1,2,3,7,8,9-HxCDD	73.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.158			13C-1,2,3,4,6,7,8-HpCDD	66.3	23 - 140	
OCDD	0.587			J	13C-OCDD	53.8	17 - 157	
2,3,7,8-TCDF	ND	0.0449			13C-2,3,7,8-TCDF	77.1	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0499			13C-1,2,3,7,8-PeCDF	82.3	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0466			13C-2,3,4,7,8-PeCDF	82.2	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0681			13C-1,2,3,4,7,8-HxCDF	74.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0604			13C-1,2,3,6,7,8-HxCDF	78.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0683			13C-2,3,4,6,7,8-HxCDF	76.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.105			13C-1,2,3,7,8,9-HxCDF	73.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0858			13C-1,2,3,4,6,7,8-HpCDF	69.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.104			13C-1,2,3,4,7,8,9-HpCDF	67.8	26 - 138	
OCDF	ND	0.101			13C-OCDF	58.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	97.4	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin 0.000176			
TOTALS								
Total TCDD	ND	0.0814						
Total PeCDD	ND	0.0792						
Total HxCDD	ND	0.151						
Total HpCDD	ND	0.158						
Total TCDF	ND	0.0449						
Total PeCDF	ND	0.0499						
Total HxCDF	ND	0.105						
Total HpCDF	ND	0.104						

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: B0E0067 Date Extracted: 08-May-2020 13:49		Lab Sample: B0E0067-BS1 Date Analyzed: 04-Jun-20 09:01 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	17.0	20.0	84.8	67 - 158	IS 13C-2,3,7,8-TCDD	97.5	20 - 175
1,2,3,7,8-PeCDD	87.6	100	87.6	70 - 142	13C-1,2,3,7,8-PeCDD	96.1	21 - 227
1,2,3,4,7,8-HxCDD	91.0	100	91.0	70 - 164	13C-1,2,3,4,7,8-HxCDD	88.8	21 - 193
1,2,3,6,7,8-HxCDD	93.2	100	93.2	76 - 134	13C-1,2,3,6,7,8-HxCDD	87.3	25 - 163
1,2,3,7,8,9-HxCDD	90.5	100	90.5	64 - 162	13C-1,2,3,7,8,9-HxCDD	87.9	21 - 193
1,2,3,4,6,7,8-HpCDD	92.6	100	92.6	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	79.7	26 - 166
OCDD	189	200	94.3	78 - 144	13C-OCDD	70.9	13 - 199
2,3,7,8-TCDF	17.9	20.0	89.7	75 - 158	13C-2,3,7,8-TCDF	86.9	22 - 152
1,2,3,7,8-PeCDF	89.8	100	89.8	80 - 134	13C-1,2,3,7,8-PeCDF	95.6	21 - 192
2,3,4,7,8-PeCDF	91.6	100	91.6	68 - 160	13C-2,3,4,7,8-PeCDF	97.0	13 - 328
1,2,3,4,7,8-HxCDF	93.6	100	93.6	72 - 134	13C-1,2,3,4,7,8-HxCDF	91.0	19 - 202
1,2,3,6,7,8-HxCDF	95.8	100	95.8	84 - 130	13C-1,2,3,6,7,8-HxCDF	94.3	21 - 159
2,3,4,6,7,8-HxCDF	91.5	100	91.5	70 - 156	13C-2,3,4,6,7,8-HxCDF	93.4	22 - 176
1,2,3,7,8,9-HxCDF	94.0	100	94.0	78 - 130	13C-1,2,3,7,8,9-HxCDF	87.6	17 - 205
1,2,3,4,6,7,8-HpCDF	94.4	100	94.4	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	83.5	21 - 158
1,2,3,4,7,8,9-HpCDF	94.4	100	94.4	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	81.8	20 - 186
OCDF	189	200	94.6	63 - 170	13C-OCDF	72.3	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	108	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-061SC-A-03-04-200428 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000997-01 Date Received: 01-May-2020 9:04
Project: Gasco PDI	Sample Size: 15.0 g	QC Batch: B0E0067 Date Extracted: 08-May-2020 13:49
Date Collected: 28-Apr-2020 13:57	% Solids: 66.8	Date Analyzed : 04-Jun-20 19:04 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0600			IS 13C-2,3,7,8-TCDD	93.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0723			13C-1,2,3,7,8-PeCDD	86.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0893			13C-1,2,3,4,7,8-HxCDD	86.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0910			13C-1,2,3,6,7,8-HxCDD	81.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.104			13C-1,2,3,7,8,9-HxCDD	84.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.853			J	13C-1,2,3,4,6,7,8-HpCDD	78.0	23 - 140	
OCDD	6.51			B	13C-OCDD	67.3	17 - 157	
2,3,7,8-TCDF	ND	0.0334			13C-2,3,7,8-TCDF	84.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0357			13C-1,2,3,7,8-PeCDF	88.8	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0317			13C-2,3,4,7,8-PeCDF	89.5	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0375			13C-1,2,3,4,7,8-HxCDF	85.7	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0334			13C-1,2,3,6,7,8-HxCDF	88.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0371			13C-2,3,4,6,7,8-HxCDF	87.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0582			13C-1,2,3,7,8,9-HxCDF	83.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0460			13C-1,2,3,4,6,7,8-HpCDF	82.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0476			13C-1,2,3,4,7,8,9-HpCDF	82.3	26 - 138	
OCDF	ND	0.0932			13C-OCDF	69.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	100	35 - 197	

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

TEQMinWHO2005Dioxin 0.0105

TOTALS				
Total TCDD	0.229			
Total PeCDD	ND		0.0966	
Total HxCDD	1.05			
Total HpCDD	2.20			
Total TCDF	0.266			
Total PeCDF	ND	0.0357		
Total HxCDF	ND	0.0582		
Total HpCDF	ND	0.0476		

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-061SC-A-04-05-200428 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000997-02 Date Received: 01-May-2020 9:04
Project: Gasco PDI	Sample Size: 15.4 g	QC Batch: B0E0067 Date Extracted: 08-May-2020 13:49
Date Collected: 28-Apr-2020 13:57	% Solids: 65.0	Date Analyzed : 05-Jun-20 00:37 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0633			IS 13C-2,3,7,8-TCDD	91.6	25 - 164	
1,2,3,7,8-PeCDD	ND	0.112			13C-1,2,3,7,8-PeCDD	87.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.105			13C-1,2,3,4,7,8-HxCDD	84.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.101			13C-1,2,3,6,7,8-HxCDD	86.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.118			13C-1,2,3,7,8,9-HxCDD	85.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.826			J	13C-1,2,3,4,6,7,8-HpCDD	77.4	23 - 140	
OCDD	5.96			B	13C-OCDD	68.4	17 - 157	
2,3,7,8-TCDF	ND	0.0321			13C-2,3,7,8-TCDF	85.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0326			13C-1,2,3,7,8-PeCDF	88.6	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0300			13C-2,3,4,7,8-PeCDF	89.7	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0375			13C-1,2,3,4,7,8-HxCDF	87.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0359			13C-1,2,3,6,7,8-HxCDF	87.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0386			13C-2,3,4,6,7,8-HxCDF	88.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0578			13C-1,2,3,7,8,9-HxCDF	84.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0714			13C-1,2,3,4,6,7,8-HpCDF	83.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0820			13C-1,2,3,4,7,8,9-HpCDF	80.6	26 - 138	
OCDF	ND	0.0813			13C-OCDF	69.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	106	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0100

TOTALS			
Total TCDD	0.356		0.551
Total PeCDD	0.221		0.358
Total HxCDD	1.22		
Total HpCDD	2.39		
Total TCDF	0.399		
Total PeCDF	ND	0.0326	
Total HxCDF	ND	0.0578	
Total HpCDF	ND	0.0820	

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-061SC-A-05-06-200428 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000997-03 Date Received: 01-May-2020 9:04
Project: Gasco PDI	Sample Size: 15.2 g	QC Batch: B0E0067 Date Extracted: 08-May-2020 13:49
Date Collected: 28-Apr-2020 13:57	% Solids: 66.9	Date Analyzed : 05-Jun-20 01:23 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0589			IS 13C-2,3,7,8-TCDD	97.6	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0864			13C-1,2,3,7,8-PeCDD	93.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0951			13C-1,2,3,4,7,8-HxCDD	88.2	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0938			13C-1,2,3,6,7,8-HxCDD	88.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.113			13C-1,2,3,7,8,9-HxCDD	86.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.668			J	13C-1,2,3,4,6,7,8-HpCDD	80.7	23 - 140	
OCDD	4.86			J, B	13C-OCDD	70.8	17 - 157	
2,3,7,8-TCDF	ND	0.0316			13C-2,3,7,8-TCDF	92.4	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0207			13C-1,2,3,7,8-PeCDF	95.3	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0186			13C-2,3,4,7,8-PeCDF	95.6	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0300			13C-1,2,3,4,7,8-HxCDF	91.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0289			13C-1,2,3,6,7,8-HxCDF	91.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0304			13C-2,3,4,6,7,8-HxCDF	93.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0479			13C-1,2,3,7,8,9-HxCDF	89.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0530			13C-1,2,3,4,6,7,8-HpCDF	84.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0595			13C-1,2,3,4,7,8,9-HpCDF	83.4	26 - 138	
OCDF	ND	0.0802			13C-OCDF	74.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	112	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00814

TOTALS			
Total TCDD	0.213		
Total PeCDD	ND		0.142
Total HxCDD	0.861		
Total HpCDD	1.73		
Total TCDF	0.133		
Total PeCDF	ND	0.0207	
Total HxCDF	ND	0.0479	
Total HpCDF	ND	0.0595	

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-061SC-A-06-07-200428 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000997-04 Date Received: 01-May-2020 9:04
Project: Gasco PDI	Sample Size: 15.0 g	QC Batch: B0E0067 Date Extracted: 08-May-2020 13:49
Date Collected: 28-Apr-2020 13:57	% Solids: 67.5	Date Analyzed : 05-Jun-20 02:09 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0464			IS 13C-2,3,7,8-TCDD	100	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0550			13C-1,2,3,7,8-PeCDD	93.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.109			13C-1,2,3,4,7,8-HxCDD	88.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.110			13C-1,2,3,6,7,8-HxCDD	82.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.135			13C-1,2,3,7,8,9-HxCDD	83.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND		0.139		13C-1,2,3,4,6,7,8-HpCDD	79.9	23 - 140	
OCDD	1.09			J, B	13C-OCDD	69.5	17 - 157	
2,3,7,8-TCDF	ND	0.0222			13C-2,3,7,8-TCDF	91.4	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0246			13C-1,2,3,7,8-PeCDF	97.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0219			13C-2,3,4,7,8-PeCDF	97.6	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0418			13C-1,2,3,4,7,8-HxCDF	89.7	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0386			13C-1,2,3,6,7,8-HxCDF	88.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0411			13C-2,3,4,6,7,8-HxCDF	90.8	28 - 136	
1,2,3,7,8,9-HxCDF	0.0413			J	13C-1,2,3,7,8,9-HxCDF	85.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0341			13C-1,2,3,4,6,7,8-HpCDF	83.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0371			13C-1,2,3,4,7,8,9-HpCDF	81.5	26 - 138	
OCDF	ND	0.0684			13C-OCDF	72.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	108	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00446

TOTALS								
Total TCDD	ND		0.0579					
Total PeCDD	ND	0.0550						
Total HxCDD	ND		0.132					
Total HpCDD	ND		0.329					
Total TCDF	0.0509							
Total PeCDF	ND	0.0246						
Total HxCDF	0.0582							
Total HpCDF	ND	0.0371						

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-061SC-A-07-08-200428 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000997-05 Date Received: 01-May-2020 9:04
Project: Gasco PDI	Sample Size: 14.1 g	QC Batch: B0E0067 Date Extracted: 08-May-2020 13:49
Date Collected: 28-Apr-2020 13:57	% Solids: 71.1	Date Analyzed : 05-Jun-20 02:55 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0519			IS 13C-2,3,7,8-TCDD	65.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0656			13C-1,2,3,7,8-PeCDD	63.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0897			13C-1,2,3,4,7,8-HxCDD	59.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0852			13C-1,2,3,6,7,8-HxCDD	57.1	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.100			13C-1,2,3,7,8,9-HxCDD	56.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.105			13C-1,2,3,4,6,7,8-HpCDD	53.4	23 - 140	
OCDD	0.455			J, B	13C-OCDD	45.9	17 - 157	
2,3,7,8-TCDF	ND	0.0296			13C-2,3,7,8-TCDF	62.5	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0443			13C-1,2,3,7,8-PeCDF	64.8	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0406			13C-2,3,4,7,8-PeCDF	64.8	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0357			13C-1,2,3,4,7,8-HxCDF	61.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0319			13C-1,2,3,6,7,8-HxCDF	61.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0347			13C-2,3,4,6,7,8-HxCDF	61.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0526			13C-1,2,3,7,8,9-HxCDF	59.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0386			13C-1,2,3,4,6,7,8-HpCDF	56.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0437			13C-1,2,3,4,7,8,9-HpCDF	55.3	26 - 138	
OCDF	ND	0.134			13C-OCDF	47.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	102	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.000137

TOTALS		
Total TCDD	ND	0.0519
Total PeCDD	ND	0.0656
Total HxCDD	ND	0.100
Total HpCDD	ND	0.105
Total TCDF	ND	0.0296
Total PeCDF	ND	0.0443
Total HxCDF	ND	0.0526
Total HpCDF	ND	0.0437

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-061SC-A-08-09-200428 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000997-06 Date Received: 01-May-2020 9:04
Project: Gasco PDI	Sample Size: 15.8 g	QC Batch: B0E0067 Date Extracted: 08-May-2020 13:49
Date Collected: 28-Apr-2020 13:57	% Solids: 64.0	Date Analyzed : 05-Jun-20 03:42 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0460			IS 13C-2,3,7,8-TCDD	88.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0524			13C-1,2,3,7,8-PeCDD	87.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0834			13C-1,2,3,4,7,8-HxCDD	84.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0871			13C-1,2,3,6,7,8-HxCDD	79.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.102			13C-1,2,3,7,8,9-HxCDD	80.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.112			J	13C-1,2,3,4,6,7,8-HpCDD	77.2	23 - 140	
OCDD	0.646			J, B	13C-OCDD	69.4	17 - 157	
2,3,7,8-TCDF	ND	0.0268			13C-2,3,7,8-TCDF	81.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0295			13C-1,2,3,7,8-PeCDF	89.2	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0280			13C-2,3,4,7,8-PeCDF	88.0	21 - 178	
1,2,3,4,7,8-HxCDF	ND		0.0296		13C-1,2,3,4,7,8-HxCDF	85.7	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0328			13C-1,2,3,6,7,8-HxCDF	86.2	26 - 123	
2,3,4,6,7,8-HxCDF	ND		0.0175		13C-2,3,4,6,7,8-HxCDF	87.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0530			13C-1,2,3,7,8,9-HxCDF	85.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0517			13C-1,2,3,4,6,7,8-HpCDF	79.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0548			13C-1,2,3,4,7,8,9-HpCDF	79.1	26 - 138	
OCDF	0.247			J	13C-OCDF	70.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	107	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00139

TOTALS								
Total TCDD	ND	0.0460						
Total PeCDD	ND	0.0524						
Total HxCDD	0.0512							
Total HpCDD	0.112		0.206					
Total TCDF	ND	0.0268						
Total PeCDF	ND	0.0295						
Total HxCDF	ND		0.0471					
Total HpCDF	ND	0.0548						

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-061SC-A-09-9.9-200428 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000997-07 Date Received: 01-May-2020 9:04
Project: Gasco PDI	Sample Size: 14.8 g	QC Batch: B0E0067 Date Extracted: 08-May-2020 13:49
Date Collected: 28-Apr-2020 13:57	% Solids: 68.1	Date Analyzed: 05-Jun-20 04:28 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0477			IS 13C-2,3,7,8-TCDD	91.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0431			13C-1,2,3,7,8-PeCDD	89.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0935			13C-1,2,3,4,7,8-HxCDD	87.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0964			13C-1,2,3,6,7,8-HxCDD	84.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.112			13C-1,2,3,7,8,9-HxCDD	81.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND		0.106		13C-1,2,3,4,6,7,8-HpCDD	78.7	23 - 140	
OCDD	0.609			J, B	13C-OCDD	69.8	17 - 157	
2,3,7,8-TCDF	ND	0.0203			13C-2,3,7,8-TCDF	89.5	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0245			13C-1,2,3,7,8-PeCDF	91.3	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0222			13C-2,3,4,7,8-PeCDF	91.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0310			13C-1,2,3,4,7,8-HxCDF	87.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0292			13C-1,2,3,6,7,8-HxCDF	86.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0317			13C-2,3,4,6,7,8-HxCDF	87.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0435		13C-1,2,3,7,8,9-HxCDF	84.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0355			13C-1,2,3,4,6,7,8-HpCDF	84.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0415			13C-1,2,3,4,7,8,9-HpCDF	80.7	26 - 138	
OCDF	ND	0.0561			13C-OCDF	70.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	102	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.000183

TOTALS		DL	EMPC	Qualifiers
Total TCDD	0.0663			
Total PeCDD	ND	0.0431		
Total HxCDD	ND		0.100	
Total HpCDD	0.175		0.281	
Total TCDF	ND	0.0203		
Total PeCDF	ND	0.0245		
Total HxCDF	ND		0.0435	
Total HpCDF	ND	0.0415		

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-061SC-B-00-02-200428 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000997-08 Date Received: 01-May-2020 9:04
Project: Gasco PDI	Sample Size: 16.2 g	QC Batch: B0E0067 Date Extracted: 08-May-2020 13:49
Date Collected: 28-Apr-2020 13:40	% Solids: 61.9	Date Analyzed : 02-Jul-20 21:58 Column: DB-225 05-Jun-20 05:14 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0514			IS 13C-2,3,7,8-TCDD	101	25 - 164	
1,2,3,7,8-PeCDD	ND	0.124			13C-1,2,3,7,8-PeCDD	95.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.129			13C-1,2,3,4,7,8-HxCDD	89.5	32 - 141	
1,2,3,6,7,8-HxCDD	0.552			J	13C-1,2,3,6,7,8-HxCDD	92.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.150			13C-1,2,3,7,8,9-HxCDD	88.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	15.7				13C-1,2,3,4,6,7,8-HpCDD	83.8	23 - 140	
OCDD	131			B	13C-OCDD	76.4	17 - 157	
2,3,7,8-TCDF	54.2				13C-2,3,7,8-TCDF	95.6	24 - 169	
1,2,3,7,8-PeCDF	154				13C-1,2,3,7,8-PeCDF	99.0	24 - 185	
2,3,4,7,8-PeCDF	50.9				13C-2,3,4,7,8-PeCDF	98.0	21 - 178	
1,2,3,4,7,8-HxCDF	104				13C-1,2,3,4,7,8-HxCDF	92.3	26 - 152	
1,2,3,6,7,8-HxCDF	21.3				13C-1,2,3,6,7,8-HxCDF	93.2	26 - 123	
2,3,4,6,7,8-HxCDF	5.49				13C-2,3,4,6,7,8-HxCDF	93.1	28 - 136	
1,2,3,7,8,9-HxCDF	7.60				13C-1,2,3,7,8,9-HxCDF	95.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	9.86				13C-1,2,3,4,6,7,8-HpCDF	86.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	4.90				13C-1,2,3,4,7,8,9-HpCDF	87.6	26 - 138	
OCDF	12.5				13C-OCDF	79.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	110	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 39.6

TOTALS			
Total TCDD	0.653		
Total PeCDD	0.398		
Total HxCDD	4.29		
Total HpCDD	34.7		
Total TCDF	142	143	
Total PeCDF	361		
Total HxCDF	156		
Total HpCDF	23.5		

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-061SC-B-02-04-200428 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000997-09 Date Received: 01-May-2020 9:04
Project: Gasco PDI	Sample Size: 15.6 g	QC Batch: B0E0067 Date Extracted: 08-May-2020 13:49
Date Collected: 28-Apr-2020 13:40	% Solids: 64.4	Date Analyzed: 05-Jun-20 06:00 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0671			IS 13C-2,3,7,8-TCDD	86.3	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0757			13C-1,2,3,7,8-PeCDD	84.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.109			13C-1,2,3,4,7,8-HxCDD	79.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.112			13C-1,2,3,6,7,8-HxCDD	74.1	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.140			13C-1,2,3,7,8,9-HxCDD	74.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.16			J	13C-1,2,3,4,6,7,8-HpCDD	74.5	23 - 140	
OCDD	6.76			B	13C-OCDD	69.3	17 - 157	
2,3,7,8-TCDF	ND	0.0456			13C-2,3,7,8-TCDF	80.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.153			13C-1,2,3,7,8-PeCDF	84.9	24 - 185	
2,3,4,7,8-PeCDF	ND	0.136			13C-2,3,4,7,8-PeCDF	86.0	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0756			13C-1,2,3,4,7,8-HxCDF	84.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0702			13C-1,2,3,6,7,8-HxCDF	83.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0764			13C-2,3,4,6,7,8-HxCDF	81.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.117			13C-1,2,3,7,8,9-HxCDF	79.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0979			13C-1,2,3,4,6,7,8-HpCDF	96.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.134			13C-1,2,3,4,7,8,9-HpCDF	75.9	26 - 138	
OCDF	ND	0.0789			13C-OCDF	68.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	100	35 - 197	

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

TEQMinWHO2005Dioxin 0.0136

TOTALS	
Total TCDD	0.261
Total PeCDD	0.239
Total HxCDD	1.53
Total HpCDD	2.84
Total TCDF	0.269
Total PeCDF	ND 0.153
Total HxCDF	ND 0.117
Total HpCDF	ND 0.134

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-061SC-B-04-06-200428 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000997-10 Date Received: 01-May-2020 9:04
Project: Gasco PDI	Sample Size: 15.2 g	QC Batch: B0E0067 Date Extracted: 08-May-2020 13:49
Date Collected: 28-Apr-2020 13:40	% Solids: 66.3	Date Analyzed : 05-Jun-20 06:47 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0501			IS 13C-2,3,7,8-TCDD	96.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0887			13C-1,2,3,7,8-PeCDD	91.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0890			13C-1,2,3,4,7,8-HxCDD	84.9	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0881			13C-1,2,3,6,7,8-HxCDD	84.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.102			13C-1,2,3,7,8,9-HxCDD	83.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.371			J	13C-1,2,3,4,6,7,8-HpCDD	77.5	23 - 140	
OCDD	2.75			J, B	13C-OCDD	73.6	17 - 157	
2,3,7,8-TCDF	ND	0.0359			13C-2,3,7,8-TCDF	91.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0477			13C-1,2,3,7,8-PeCDF	93.1	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0446			13C-2,3,4,7,8-PeCDF	94.2	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0340			13C-1,2,3,4,7,8-HxCDF	88.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0302			13C-1,2,3,6,7,8-HxCDF	87.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0346			13C-2,3,4,6,7,8-HxCDF	90.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0508			13C-1,2,3,7,8,9-HxCDF	88.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0940			13C-1,2,3,4,6,7,8-HpCDF	83.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0976			13C-1,2,3,4,7,8,9-HpCDF	84.1	26 - 138	
OCDF	ND	0.0592			13C-OCDF	73.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	102	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00454

TOTALS				
Total TCDD	0.220			
Total PeCDD	ND		0.0504	
Total HxCDD	0.354			
Total HpCDD	0.949			
Total TCDF	ND		0.130	
Total PeCDF	ND	0.0477		
Total HxCDF	ND	0.0508		
Total HpCDF	ND	0.0976		

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-061SC-B-06-08-200428 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000997-11 Date Received: 01-May-2020 9:04
Project: Gasco PDI	Sample Size: 14.5 g	QC Batch: B0E0067 Date Extracted: 08-May-2020 13:49
Date Collected: 28-Apr-2020 13:40	% Solids: 69.1	Date Analyzed: 06-Jun-20 10:42 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.0668		IS 13C-2,3,7,8-TCDD	91.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0692			13C-1,2,3,7,8-PeCDD	93.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0831			13C-1,2,3,4,7,8-HxCDD	89.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0859			13C-1,2,3,6,7,8-HxCDD	86.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0979			13C-1,2,3,7,8,9-HxCDD	86.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.665			J	13C-1,2,3,4,6,7,8-HpCDD	86.0	23 - 140	
OCDD	5.66			B	13C-OCDD	76.4	17 - 157	
2,3,7,8-TCDF	ND	0.158			13C-2,3,7,8-TCDF	88.0	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0301			13C-1,2,3,7,8-PeCDF	95.3	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0267			13C-2,3,4,7,8-PeCDF	97.5	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0365			13C-1,2,3,4,7,8-HxCDF	90.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0334			13C-1,2,3,6,7,8-HxCDF	87.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0361			13C-2,3,4,6,7,8-HxCDF	90.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0523			13C-1,2,3,7,8,9-HxCDF	89.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0674			13C-1,2,3,4,6,7,8-HpCDF	85.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0718			13C-1,2,3,4,7,8,9-HpCDF	86.8	26 - 138	
OCDF	ND	0.0774			13C-OCDF	74.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	99.2	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00835

TOTALS			
Total TCDD	0.218		0.285
Total PeCDD	ND		0.0896
Total HxCDD	0.799		
Total HpCDD	1.74		
Total TCDF	0.134		
Total PeCDF	ND	0.0301	
Total HxCDF	ND	0.0523	
Total HpCDF	ND	0.0718	

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

2000997 3.9°C

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

Project: Gasco PDI
Client: NW Natural

COC ID: VISTA-20200428-145429
Sample Custodian: CO
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-061SC-A-03-04-200428	N	SE	04/28/2020	13:57	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
002	PDI-061SC-A-04-05-200428	N	SE	04/28/2020	13:57	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
003	PDI-061SC-A-05-06-200428	N	SE	04/28/2020	13:57	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
004	PDI-061SC-A-06-07-200428	N	SE	04/28/2020	13:57	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
005	PDI-061SC-A-07-08-200428	N	SE	04/28/2020	13:57	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
006	PDI-061SC-A-08-09-200428	N	SE	04/28/2020	13:57	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
007	PDI-061SC-A-09-9-9-200428	N	SE	04/28/2020	13:57	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
Print Name: Lucas Henry	Print Name: William R. Wright	Print Name:	Print Name:	Print Name:	Print Name:
Company: ACE	Company: VAL	Company:	Company:	Company:	Company:
Date/Time: 4/24/2020/1500	Date/Time: 5-1-20 09:04	Date/Time:	Date/Time:	Date/Time:	Date/Time:

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

2000997 3.9°C

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

Project: Gasco PDI
Client: NW Natural

COC ID: VISTA-20200428-145429
Sample Custodian: CO
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected		Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
				Date	Time						
008	PDI-061SC-B-00-02-200428	N	SE	04/28/2020	13:40	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
009	PDI-061SC-B-02-04-200428	N	SE	04/28/2020	13:40	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
010	PDI-061SC-B-04-06-200428	N	SE	04/28/2020	13:40	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
011	PDI-061SC-B-06-08-200428	N	SE	04/28/2020	13:40	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C

Comment:					
Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name Lucas Henry	Print Name William B. Wright	Print Name	Print Name	Print Name	Print Name
Company AQ	Company VAL	Company	Company	Company	Company
Date/Time 4/29/2020/1508	Date/Time 5-1-20 09:04	Date/Time	Date/Time	Date/Time	Date/Time

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

Sample Log-In Checklist

Page # 1 of 2

Vista Work Order #: 2000997

TAT 28

Samples Arrival:	Date/Time: 5/1/20 09:04	Initials: URW	Location: WR-2
			Shelf/Rack: N/A
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac
		<input type="radio"/> GLS	<input type="radio"/> DHL
		<input type="radio"/> Hand Delivered	<input type="radio"/> Other
Preservation:	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
	<input type="radio"/> None		
Temp °C: 3.9 (uncorrected)	Probe used: Y / <input checked="" type="radio"/> N		Thermometer ID: FR-4
Temp °C: 3.9 (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>1 of 3</u> Trk # <u>7703 6338 1662</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input checked="" type="checkbox"/> Vista	<input type="checkbox"/> Client	<input type="checkbox"/> Retain
		<input type="checkbox"/> Return	<input type="checkbox"/> Dispose
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logged In:	Date/Time: 05/01/20 1326	Initials: CM	Location: WR-2
			Shelf/Rack: Ce-5
COC Anomaly/Sample Acceptance Form completed?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

Sample Log-In Checklist

 Page # 2 of 2

 Vista Work Order #: 2000997 TAT 28

Samples Arrival:	Date/Time: 05/1/20 09:04	Initials: WRW	Location: WR-2
			Shelf/Rack: N/A
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
		<input type="checkbox"/> GLS	<input type="checkbox"/> DHL
		<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
	<input type="checkbox"/> None		
Temp °C: 3.8 (uncorrected)	Probe used: Y / <input checked="" type="checkbox"/> N		Thermometer ID: IR-4
Temp °C: 3.8 (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>		
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>		
Airbill <u>3 of 3</u> Trk # <u>7703 6338 2007</u>	<input checked="" type="checkbox"/>		
Shipping Documentation Present?	<input checked="" type="checkbox"/>		
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose	
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>		
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>		
Holding Time Acceptable?	<input checked="" type="checkbox"/>		
Logged In:	Date/Time: 05/01/20 1326	Initials: Cm	Location: WR-2
			Shelf/Rack: G2-5
COC Anomaly/Sample Acceptance Form completed?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2000997

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2000997-01	A PDI-061SC-A-03-04-200428	<input checked="" type="checkbox"/> C1	28-Apr-20 13:57	Amber Glass, 120 mL	Solid	
2000997-02	A PDI-061SC-A-04-05-200428	<input checked="" type="checkbox"/> C3	28-Apr-20 13:57	Amber Glass, 120 mL	Solid	
2000997-03	A PDI-061SC-A-05-06-200428	<input checked="" type="checkbox"/> C1	28-Apr-20 13:57	Amber Glass, 120 mL	Solid	
2000997-04	A PDI-061SC-A-06-07-200428	<input checked="" type="checkbox"/> L	28-Apr-20 13:57	Amber Glass, 120 mL	Solid	
2000997-05	A PDI-061SC-A-07-08-200428	<input checked="" type="checkbox"/> C3	28-Apr-20 13:57	Amber Glass, 120 mL	Solid	
2000997-06	A PDI-061SC-A-08-09-200428	<input checked="" type="checkbox"/> C1	28-Apr-20 13:57	Amber Glass, 120 mL	Solid	
2000997-07	A PDI-061SC-A-09-9.9-200428	<input checked="" type="checkbox"/>	28-Apr-20 13:57	Amber Glass, 120 mL	Solid	
2000997-08	A PDI-061SC-B-00-02-200428	<input checked="" type="checkbox"/>	28-Apr-20 13:40	Amber Glass, 120 mL	Solid	
2000997-09	A PDI-061SC-B-02-04-200428	<input checked="" type="checkbox"/>	28-Apr-20 13:40	Amber Glass, 120 mL	Solid	
2000997-10	A PDI-061SC-B-04-06-200428	<input checked="" type="checkbox"/>	28-Apr-20 13:40	Amber Glass, 120 mL	Solid	
2000997-11	A PDI-061SC-B-06-08-200428	<input checked="" type="checkbox"/> C3	28-Apr-20 13:40	Amber Glass, 120 mL	Solid	

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

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

Comments:

C1 = cooler 1
C3 = cooler 3

Verified by/Date: GM 05/01/20

EXTRACTION INFORMATION

PRIORITY

Process Sheet

Workorder: **2000997**

Prep Expiration: 2021-04-28
Client: Anchor QEA, LLC

Workorder Due: **29-May-20 00:00**

TAT: 28

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

Prep Batch: B020067

Prep Data Entered: 2 05/14/20
Date and Initials

Initial Sequence: S0F0011

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2000997-01	<input checked="" type="checkbox"/>	PDI-061SC-A-03-04-200428	01-May-20 09:04	WR-2 G-5	
2000997-02	<input checked="" type="checkbox"/>	PDI-061SC-A-04-05-200428	01-May-20 09:04	WR-2 G-5	
2000997-03	<input checked="" type="checkbox"/>	PDI-061SC-A-05-06-200428	01-May-20 09:04	WR-2 G-5	
2000997-04	<input checked="" type="checkbox"/>	PDI-061SC-A-06-07-200428	01-May-20 09:04	WR-2 G-5	
2000997-05	<input checked="" type="checkbox"/>	PDI-061SC-A-07-08-200428	01-May-20 09:04	WR-2 G-5	
2000997-06	<input checked="" type="checkbox"/>	PDI-061SC-A-08-09-200428	01-May-20 09:04	WR-2 G-5	
2000997-07	<input checked="" type="checkbox"/>	PDI-061SC-A-09-9.9-200428	01-May-20 09:04	WR-2 G-5	
2000997-08	<input checked="" type="checkbox"/>	PDI-061SC-B-00-02-200428	01-May-20 09:04	WR-2 G-5	
2000997-09	<input checked="" type="checkbox"/>	PDI-061SC-B-02-04-200428	01-May-20 09:04	WR-2 G-5	
2000997-10	<input checked="" type="checkbox"/>	PDI-061SC-B-04-06-200428	01-May-20 09:04	WR-2 G-5	
2000997-11	<input checked="" type="checkbox"/>	PDI-061SC-B-06-08-200428	01-May-20 09:04	WR-2 G-5	

WO Comments: **Dioxin - 10g (dry weight)** RR 05/08/20
One dup required per batch of 20 samples

Pre-Prep Check Out: CHT 05/07/20

Prep Check Out: RR 05/08/20

Prep Reconciled Initials/Date: CHT 05/07/20

Pre-Prep Check In: CHT 05/07/20

Prep Check In: RR 05/08/20

Spike Reconciled Initials/Date: RR 05/08/20

VialBoxID: USS Farragut

PREPARATION BENCH SHEET

Matrix: Solid

B0E0067

Chemist: RR

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 08-May-20 13:49

* 20 05/15/20

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	Florisol CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B0E0067-BLK1	(N/A)	(10.00)	RR DF 05/08/20	20 05/15/20	NA	20 05/15/20	20 05/15/20	20 05/16/20	20 RR 05/16/20
<input type="checkbox"/>	B0E0067-BS1	N/A	(10.00)	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	B0E0067-DUP1	12.12	12.30	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000964-08	12.63	12.64	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000964-01	17.96	18.10	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000964-02	12.71	12.76	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000964-03	12.46	12.48	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000964-04	12.48	12.53	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000964-05	11.44	11.50	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000964-06	11.77	11.82	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000964-07	12.12	12.17	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000964-08	12.64	12.68	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000964-09	14.97	14.97	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000997-01	15.38	15.39	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000997-02	14.94	15.16	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000997-03			↓	↓	↓	↓	↓	↓	↓

IS Name <u>V1</u>	NS Name <u>V1</u>	CRS Name <u>V1</u>	RS Name <u>V1</u>	Cycle Time	APP: SEFUN SOX <u>(SDS)</u>	Check Out: Chemist/Date: <u>RR 05/08/20</u>
PCDD/F <u>19L250, 10mL</u>	PCDD/F <u>19F1913, 10mL</u>	PCDD/F <u>19I1602, 10mL</u>	PCDD/F <u>19I1603, 10mL</u>	Start Date/Time <u>05/08/20 1546</u>	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <u>RR 05/08/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>05/09/20 0750</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>44</u>		
					<u>20ML</u>	

Comments:

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

PREPARATION BENCH SHEET

Matrix: Solid

B0E0067

Chemist: RR

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 08-May-20 13:49

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"/>	2000997-04	14.81	15.00	RR-D# 05/08/20	05/15/20	NA	05/15/20	05/15/20	05/16/20	RR 05/16/20
<input type="checkbox"/>	2000997-05	14.07	14.12					Purple line		
<input type="checkbox"/>	2000997-06	15.62	15.80							
<input type="checkbox"/>	2000997-07	14.68	14.80							
<input type="checkbox"/>	2000997-08	16.15	16.18					Yellowish pink		
<input type="checkbox"/>	2000997-09	15.53	15.59					Purple line		
<input type="checkbox"/>	2000997-10	15.09	15.20							
<input type="checkbox"/>	2000997-11	14.47	14.52	↓	↓	↓	↓	↓	↓	↓

IS Name <u>19L2561, 10mL</u>	NS Name _____	CRS Name <u>V1</u>	RS Name <u>V1</u>	Cycle Time _____	APP: SEFUN SOX <u>SDS</u>	Check Out: _____
PCDD/F <u>19L2561</u>	PCDD/F <u>18F1913, 10mL</u>	PCDD/F <u>19I1602, 10mL</u>	PCDD/F <u>19I1603, 10mL</u>	Start Date/Time <u>05/08/20 1546</u>	SOLV: <u>Toluene</u>	Chemist/Date: <u>RR 05/08/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Other <u>NA</u>	Final Volume(s) <u>C14</u>	Check In: _____
PAH _____	PAH _____	PAH _____	PAH _____	Stop Date/Time <u>05/09/20 0750</u>	<u>20mL</u>	Chemist/Date: <u>RR 05/08/20</u>
Balance ID: <u>HP-8</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

Analyst: CHT ✓ Analyte: Dried at 110°C+/-5°C Oven ID: 01 02 ✓	Test Code: %Moist/%Solids Units: %	Data Entry Verified by: (Initial and Date) KA 05/08/2020 ✓
---	---------------------------------------	---

Inst HRMS-9 ✓

Date/Time IN: 5/7/20 9:30 ✓ Date/Time OUT: 5/8/20 6:35 ✓

Particle Size	SampID	SampType	Initial and Date:		G		Dry Sample Weight (g)	%Solids Raw/Val	K L M N O				Sample Homogenized*
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	RR 05/08/2020	CHT 05/07/2020			Visual Inspection	Cl-	pH Before	pH After	
	2000997-01	A ✓ Sample	1.3000 ✓	5.8800 ✓	4.3600 ✓	3.0600	66.81	Mud ✓	N/A	N/A	N/A	N/A	✓ X ✓
	2000997-02	A Sample	1.3200 ✓	5.3800 ✓	3.9600 ✓	2.6400	65.02	Mud	N/A	N/A	N/A	N/A	X
	2000997-03	A Sample	1.3100 ✓	5.0300 ✓	3.8000 ✓	2.4900	66.94	Mud	N/A	N/A	N/A	N/A	X
	2000997-04	A Sample	1.2900 ✓	7.5400 ✓	5.5100 ✓	4.2200	67.52	Mud	N/A	N/A	N/A	N/A	X
	2000997-05	A Sample	1.2900 ✓	7.0600 ✓	5.3900 ✓	4.1000	71.06	Mud	N/A	N/A	N/A	N/A	X
	2000997-06	A Sample	1.3000 ✓	6.3300 ✓	4.5200 ✓	3.2200	64.02	Mud	N/A	N/A	N/A	N/A	X
	2000997-07	A Sample	1.2800 ✓	6.2700 ✓	4.6800 ✓	3.4000	68.14	Mud	N/A	N/A	N/A	N/A	X
	2000997-08	A Sample	1.2800 ✓	6.8200 ✓	4.7100 ✓	3.4300	61.91	Mud	N/A	N/A	N/A	N/A	X
	2000997-09	A Sample	1.2900 ✓	6.6000 ✓	4.7100 ✓	3.4200	64.41	Mud	N/A	N/A	N/A	N/A	X
	2000997-10	A ✓ Sample	1.2900 ✓	6.4200 ✓	4.6900 ✓	3.4000	66.28	Mud	N/A	N/A	N/A	N/A	X
	2000997-11	A ✓ Sample	1.3000 ✓	5.1500 ✓	3.9600 ✓	2.6600	69.09	Mud	N/A	N/A	N/A	N/A	✓ X ✓

*Sample homogenized in sample container unless otherwise noted.

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

Inst **HRMS-9**

Date/Time IN: 05/07/20 Date/Time OUT: 05/08/20
0930 **0635**

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	CHT 05/07/20				Sample Homogenized*
			Pan Tare Wt. (gms)	RR 05/08/20					Visual Inspection	Cl-	pH Before	pH After	
	2000997-01	Sample	1.30	CHT 05/07/20	5.88	4.36							✓
	2000997-02	Sample	1.32	RR 05/08/20	5.38	3.96							✓
	2000997-03	Sample	1.31		5.03	3.80							✓
	2000997-04	Sample	1.29		7.54	5.51							✓
	2000997-05	Sample	1.29		7.06	5.39							✓
	2000997-06	Sample	1.30		6.33	4.52							✓
	2000997-07	Sample	1.28		6.27	4.68							✓
	2000997-08	Sample	1.28		6.82	4.71							✓
	2000997-09	Sample	1.29		6.60	4.71							✓
	2000997-10	Sample	1.29		6.42	4.69							✓
	2000997-11	Sample	1.30		5.15	3.96							✓

*Sample homogenized in sample container unless otherwise noted.

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000964-01	12.64 ✓	79.15129	10.0047	20	08-May-20 13:49	RR			Sediment	1613 Full List
2000964-02	18.1 ✓	55.66573	10.0755	20	08-May-20 13:49	RR			Sediment	1613 Full List
2000964-03	12.76 ✓	78.69318	10.0412	20	08-May-20 13:49	RR			Sediment	1613 Full List
2000964-04	12.48 ✓	80.28616	10.0197	20	08-May-20 13:49	RR			Sediment	1613 Full List
2000964-05	12.53 ✓	80.12048	10.0391	20	08-May-20 13:49	RR			Sediment	1613 Full List
2000964-06	11.5 ✓	87.4031	10.0514	20	08-May-20 13:49	RR			Sediment	1613 Full List
2000964-07	11.82 ✓	84.93151	10.0389	20	08-May-20 13:49	RR			Sediment	1613 Full List
2000964-08	12.17 ✓	82.53638	10.0447	20	08-May-20 13:49	RR			Sediment	1613 Full List
2000964-09	12.68 ✓	79.11504	10.0318	20	08-May-20 13:49	RR			Sediment	1613 Full List
2000997-01	14.97 ✓	66.81223	10.0018	20	08-May-20 13:49	RR			Sediment	1613 Full List
2000997-02	15.39 ✓	65.02463	10.0073	20	08-May-20 13:49	RR			Sediment	1613 Full List
2000997-03	15.16 ✓	66.93548	10.1474	20	08-May-20 13:49	RR			Sediment	1613 Full List
2000997-04	15 ✓	67.52	10.1280	20	08-May-20 13:49	RR			Sediment	1613 Full List
2000997-05	14.12 ✓	71.05719	10.0333	20	08-May-20 13:49	RR			Sediment	1613 Full List
2000997-06	15.8 ✓	64.01591	10.1145	20	08-May-20 13:49	RR			Sediment	1613 Full List
2000997-07	14.8 ✓	68.13627	10.0842	20	08-May-20 13:49	RR			Sediment	1613 Full List
2000997-08	16.18 ✓	61.91336	10.0176	20	08-May-20 13:49	RR			Sediment	1613 Full List
2000997-09	15.59 ✓	64.40678	10.0410	20	08-May-20 13:49	RR			Sediment	1613 Full List
2000997-10	15.2 ✓	66.2768	10.0741	20	08-May-20 13:49	RR			Sediment	1613 Full List
2000997-11	14.52 ✓	69.09091	10.0320	20	08-May-20 13:49	RR			Sediment	1613 Full List
B0E0067-BLK1	10			20	08-May-20 13:49	RR				QC
B0E0067-BS1	10			20	08-May-20 13:49	RR	18F1913 ✓	10 ✓		QC
B0E0067-DUP1	12.3 ✓	82.53638	10.1520	20	08-May-20 13:49	RR				QC

All bolded data on report verified against written benchsheet by (initial/date) W 05/16/20

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-4.qld

Last Altered: Friday, June 05, 2020 11:06:15 Pacific Daylight Time

Printed: Friday, June 05, 2020 11:06:50 Pacific Daylight Time

GRB 06/05/2020

GT 06/09/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-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	0.888	10.000	26.531		1.001				0.0814	
2	1,2,3,7,8-PeCDD			NO	0.908	10.000	31.488		1.001				0.0792	
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.000	34.846		1.000				0.137	
4	1,2,3,6,7,8-HxCDD			NO	0.892	10.000	34.932		1.000				0.129	
5	1,2,3,7,8,9-HxCDD			NO	0.887	10.000	35.231		1.000				0.151	
6	1,2,3,4,6,7,8-HpCDD			NO	0.864	10.000	38.768		1.000				0.158	
7	OCDD	5.17e2	0.98	NO	0.914	10.000	41.738	41.78	1.000	1.001	0.58731		0.210	0.587
8	2,3,7,8-TCDF			NO	0.751	10.000	25.641		1.001				0.0449	
9	1,2,3,7,8-PeCDF			NO	0.893	10.000	30.205		1.001				0.0499	
10	2,3,4,7,8-PeCDF			NO	0.935	10.000	31.192		1.001				0.0466	
11	1,2,3,4,7,8-HxCDF			NO	0.884	10.000	33.952		1.000				0.0681	
12	1,2,3,6,7,8-HxCDF			NO	0.889	10.000	34.090		1.000				0.0604	
13	2,3,4,6,7,8-HxCDF			NO	0.934	10.000	34.701		1.001				0.0683	
14	1,2,3,7,8,9-HxCDF			NO	0.871	10.000	35.582		1.000				0.105	
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	10.000	37.387		1.001				0.0858	
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.000	39.299		1.000				0.104	
17	OCDF			NO	0.806	10.000	41.930		1.000				0.101	
18	13C-2,3,7,8-TCDD	7.17e5	0.80	NO	1.16	10.000	26.538	26.50	1.026	1.025	170.20	85.1	0.247	
19	13C-1,2,3,7,8-PeCDD	4.84e5	0.62	NO	0.849	10.000	31.729	31.47	1.227	1.217	156.63	78.3	0.419	
20	13C-1,2,3,4,7,8-HxCDD	3.16e5	1.33	NO	0.779	10.000	34.841	34.84	1.014	1.014	148.00	74.0	0.463	
21	13C-1,2,3,6,7,8-HxCDD	4.15e5	1.22	NO	1.02	10.000	34.955	34.93	1.017	1.017	148.79	74.4	0.355	
22	13C-1,2,3,7,8,9-HxCDD	3.63e5	1.23	NO	0.903	10.000	35.226	35.22	1.025	1.025	146.64	73.3	0.400	
23	13C-1,2,3,4,6,7,8-HpCDD	2.51e5	1.04	NO	0.689	10.000	38.751	38.76	1.128	1.128	132.63	66.3	0.558	
24	13C-OCDD	3.85e5	0.89	NO	0.652	10.000	41.775	41.74	1.216	1.215	215.36	53.8	0.580	
25	13C-2,3,7,8-TCDF	8.96e5	0.78	NO	1.06	10.000	25.578	25.61	0.989	0.991	154.21	77.1	0.336	
26	13C-1,2,3,7,8-PeCDF	7.57e5	1.57	NO	0.838	10.000	30.111	30.18	1.165	1.167	164.57	82.3	0.574	
27	13C-2,3,4,7,8-PeCDF	7.36e5	1.62	NO	0.817	10.000	31.065	31.16	1.202	1.205	164.34	82.2	0.589	
28	13C-1,2,3,4,7,8-HxCDF	4.14e5	0.50	NO	1.01	10.000	33.972	33.95	0.989	0.988	149.87	74.9	0.587	
29	13C-1,2,3,6,7,8-HxCDF	5.03e5	0.52	NO	1.17	10.000	34.096	34.08	0.992	0.992	156.98	78.5	0.507	
30	13C-2,3,4,6,7,8-HxCDF	4.30e5	0.52	NO	1.02	10.000	34.670	34.67	1.009	1.009	153.40	76.7	0.579	
31	13C-1,2,3,7,8,9-HxCDF	3.45e5	0.52	NO	0.860	10.000	35.570	35.58	1.035	1.036	146.24	73.1	0.688	

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-4.qld

Last Altered: Friday, June 05, 2020 11:06:15 Pacific Daylight Time

Printed: Friday, June 05, 2020 11:06:50 Pacific Daylight Time

Name: 200604R1_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-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	13C-1,2,3,4,6,7,8-HpCDF	2.94e5	0.41	NO	0.774	10.000	37.319	37.35	1.086	1.087	138.07	69.0	0.698	
33	13C-1,2,3,4,7,8,9-HpCDF	1.94e5	0.43	NO	0.521	10.000	39.349	39.30	1.145	1.144	135.53	67.8	1.04	
34	13C-OCDF	4.78e5	0.87	NO	0.746	10.000	41.946	41.93	1.221	1.220	233.51	58.4	0.414	
35	37Cl-2,3,7,8-TCDD	2.94e5			1.04	10.000	26.569	26.53	1.028	1.026	77.907	97.4	0.0588	
36	13C-1,2,3,4-TCDD	7.28e5	0.79	NO	1.00	10.000	25.890	25.85	1.000	1.000	200.00	100	0.285	
37	13C-1,2,3,4-TCDF	1.10e6	0.78	NO	1.00	10.000	24.360	24.18	1.000	1.000	200.00	100	0.356	
38	13C-1,2,3,4,6,9-HxCDF	5.49e5	0.49	NO	1.00	10.000	34.420	34.36	1.000	1.000	200.00	100	0.591	
39	Total Tetra-Dioxins				0.888	10.000	24.620		0.000				0.0513	
40	Total Penta-Dioxins				0.908	10.000	29.960		0.000				0.0394	
41	Total Hexa-Dioxins				0.892	10.000	33.635		0.000				0.0716	
42	Total Hepta-Dioxins				0.864	10.000	37.640		0.000				0.107	
43	Total Tetra-Furans				0.751	10.000	23.610		0.000				0.0205	
44	1st Func. Penta-Furans				0.893	10.000	27.580		0.000				0.0145	
45	Total Penta-Furans				0.893	10.000	29.275		0.000				0.0216	
46	Total Hexa-Furans				0.934	10.000	33.555		0.000				0.0348	
47	Total Hepta-Furans				0.873	10.000	37.835		0.000				0.0548	

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-4.qld

Last Altered: Friday, June 05, 2020 11:06:15 Pacific Daylight Time

Printed: Friday, June 05, 2020 11:06:50 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-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
------	----	-----------	-----------	---------	---------	----	-----	------	-------	------	----

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

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

Penta-Furans function 1

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

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-4.qld

Last Altered: Friday, June 05, 2020 11:06:15 Pacific Daylight Time
Printed: Friday, June 05, 2020 11:06:50 Pacific Daylight Time

Name: 200604R1_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-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
------	----	-----------	-----------	---------	---------	----	-----	------	------	------	----

Hexa-Furans

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

Hepta-Furans

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

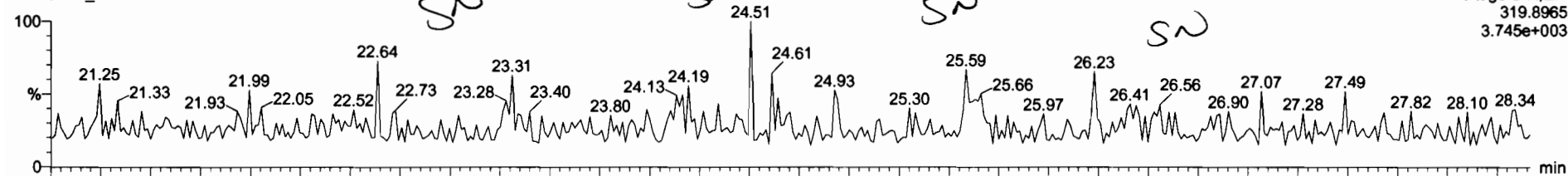
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Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

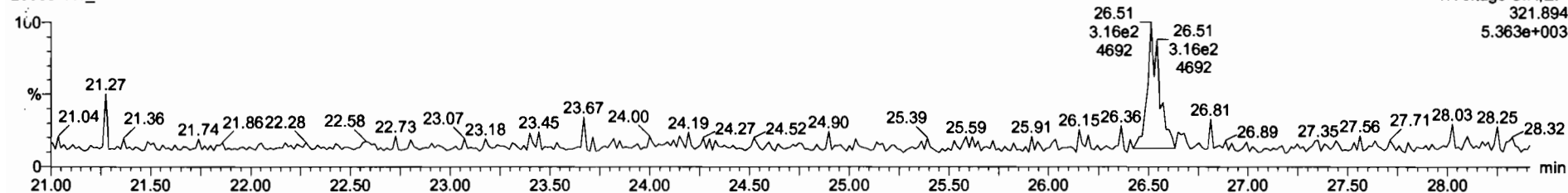
2,3,7,8-TCDD

200604R1_4



F1:Voltage SIR,EI+
319.8965
3.745e+003

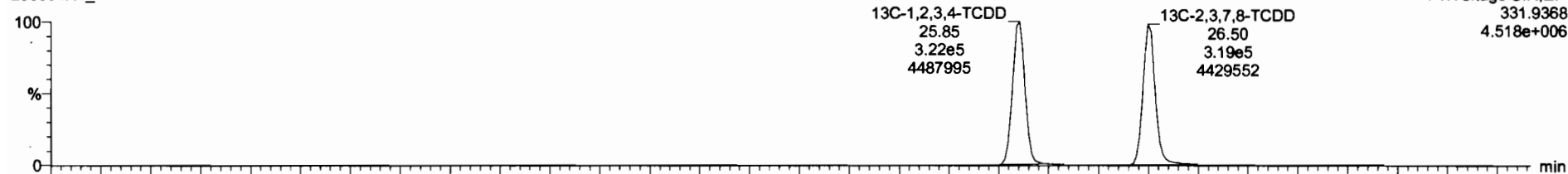
200604R1_4



F1:Voltage SIR,EI+
321.894
5.363e+003

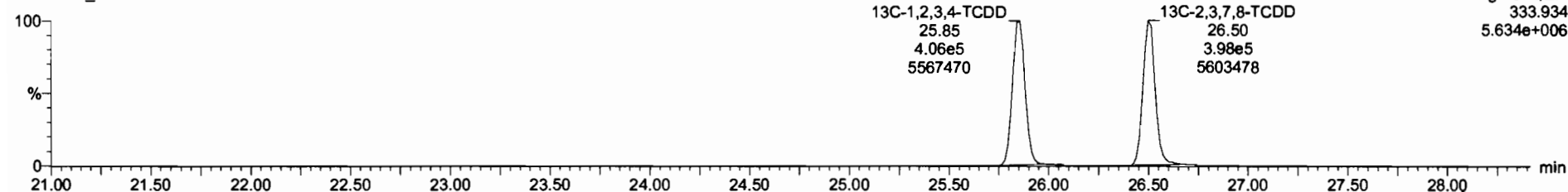
13C-2,3,7,8-TCDD

200604R1_4



F1:Voltage SIR,EI+
331.9368
4.518e+006

200604R1_4



F1:Voltage SIR,EI+
333.934
5.634e+006

Dataset: Untitled

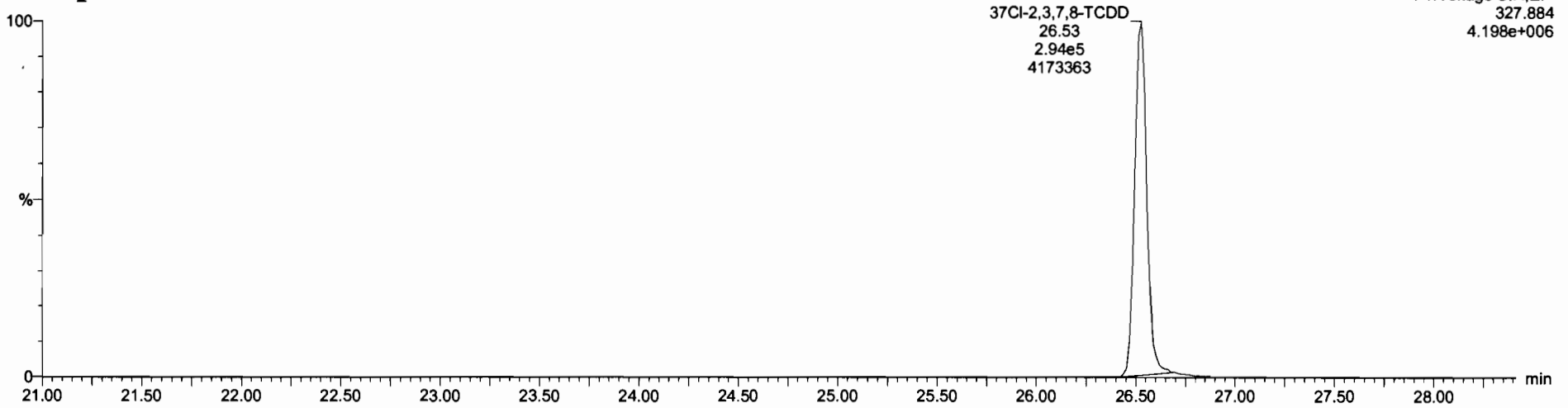
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time

Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

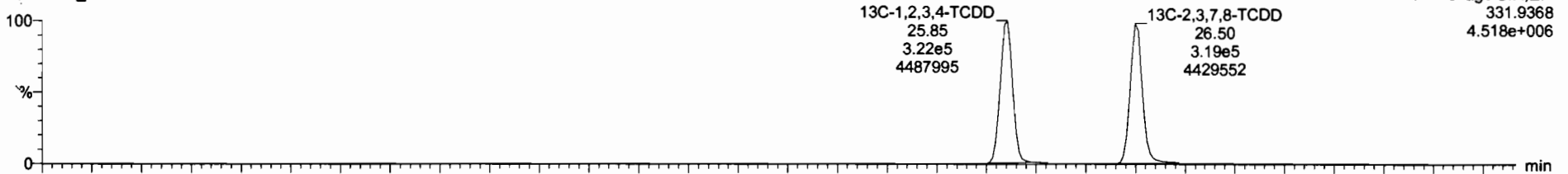
³⁷Cl-2,3,7,8-TCDD

200604R1_4

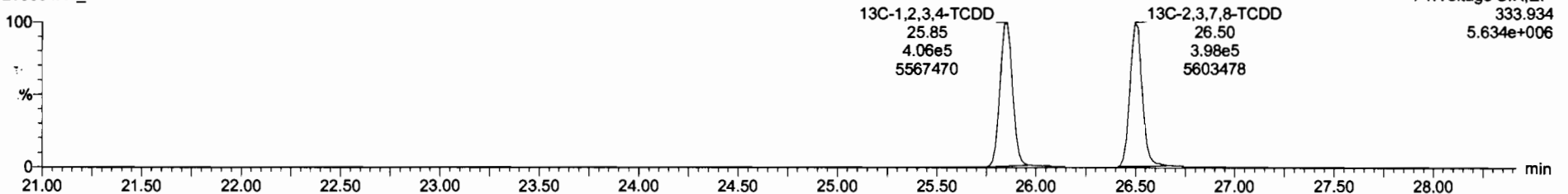


¹³C-1,2,3,4-TCDD

200604R1_4



200604R1_4



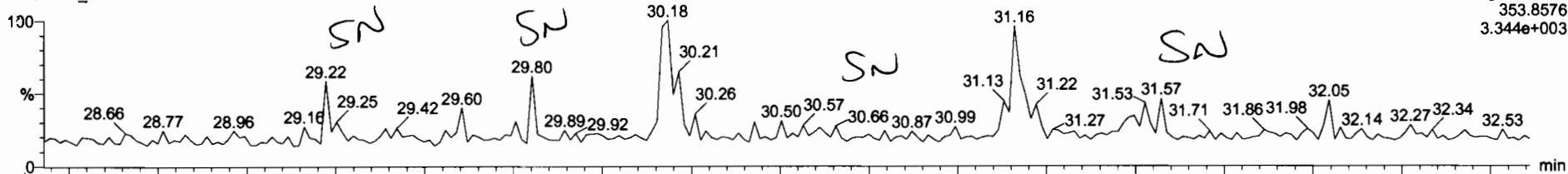
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Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

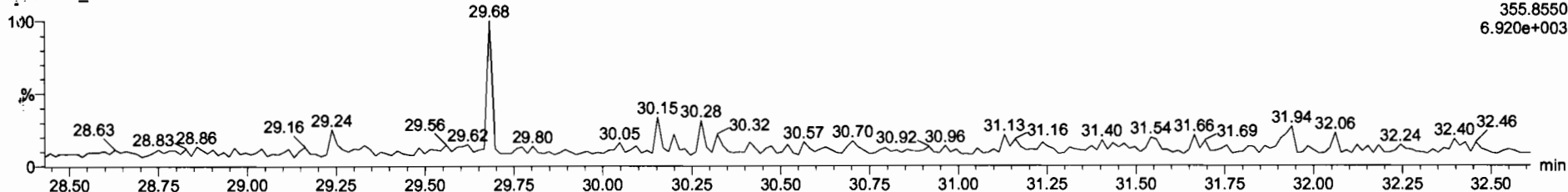
Name: 200604R1_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDD

200604R1_4

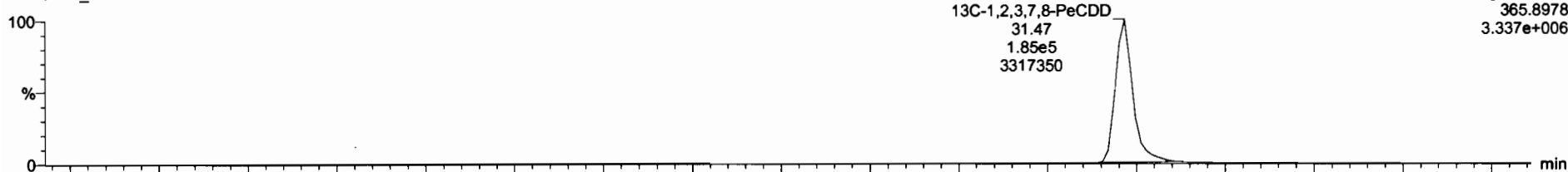


200604R1_4

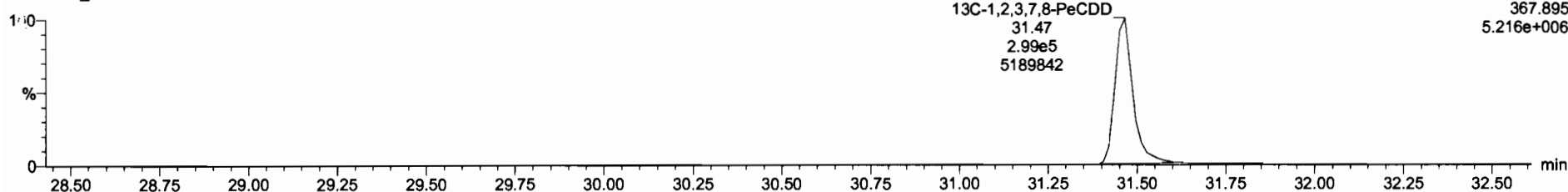


13C-1,2,3,7,8-PeCDD

200604R1_4



200604R1_4



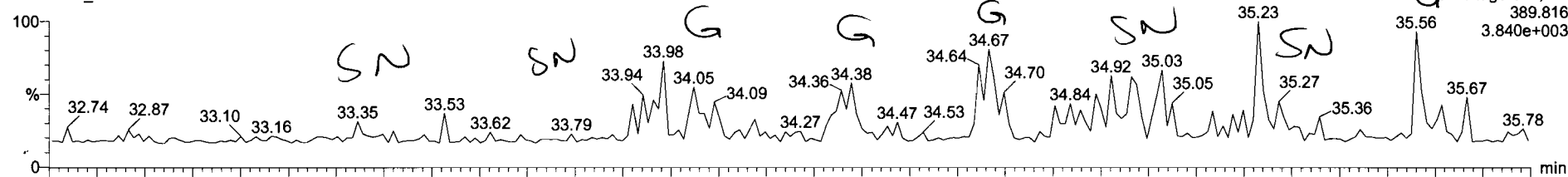
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Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

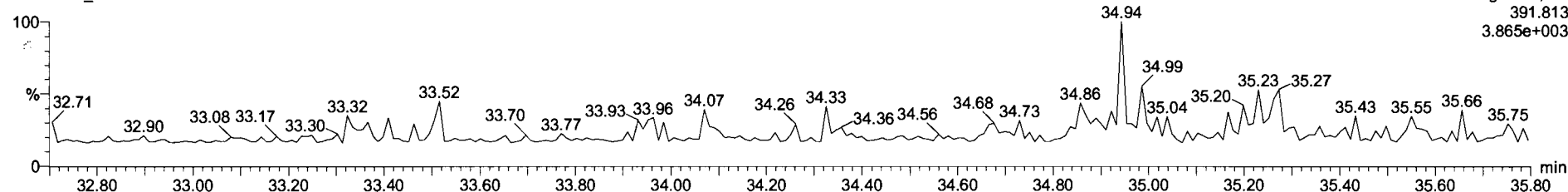
Name: 200604R1_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

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

200604R1_4

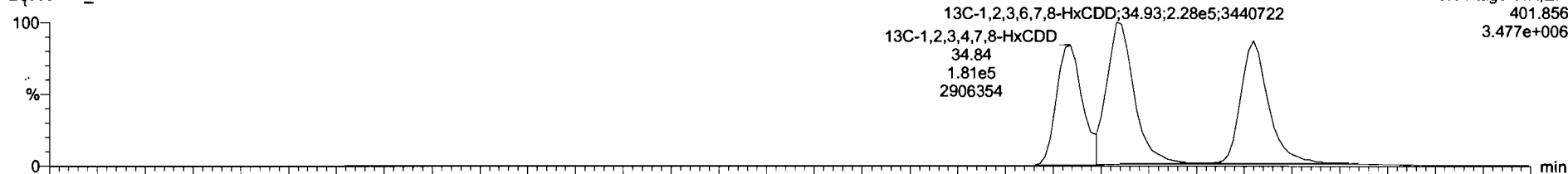


200604R1_4

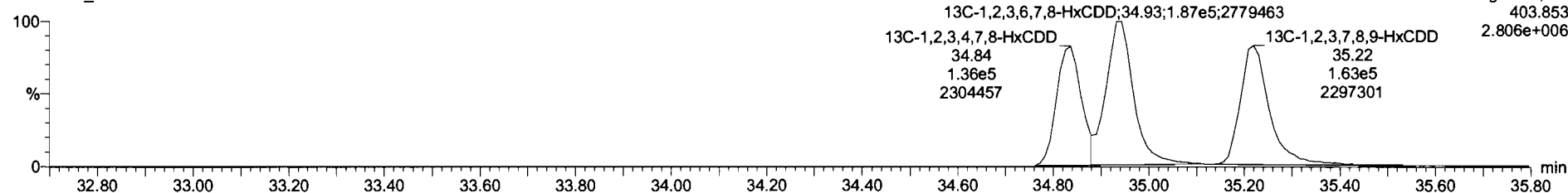


13C-1,2,3,4,7,8-HxCDD

200604R1_4



200604R1_4



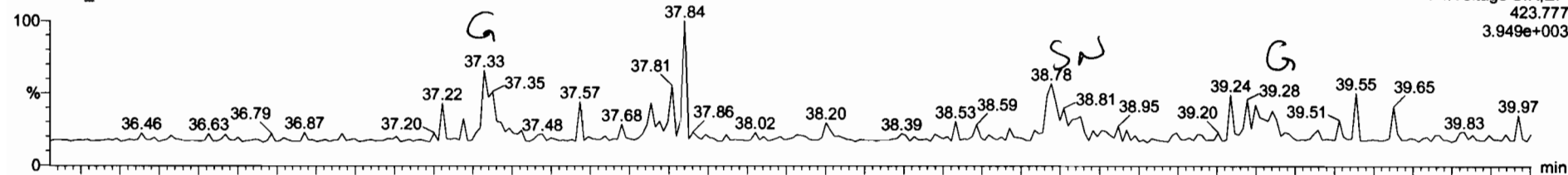
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Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

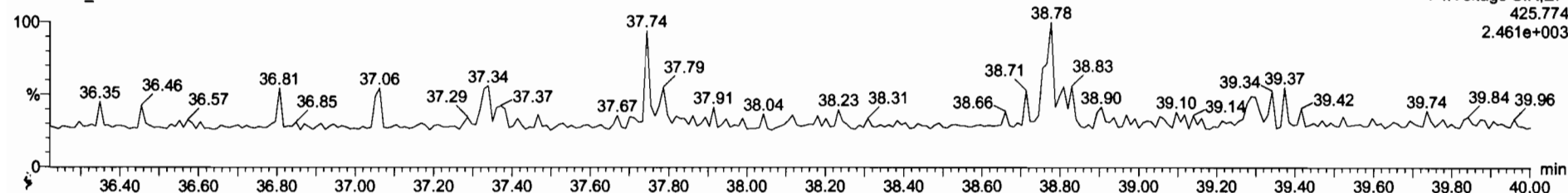
Name: 200604R1_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

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

200604R1_4

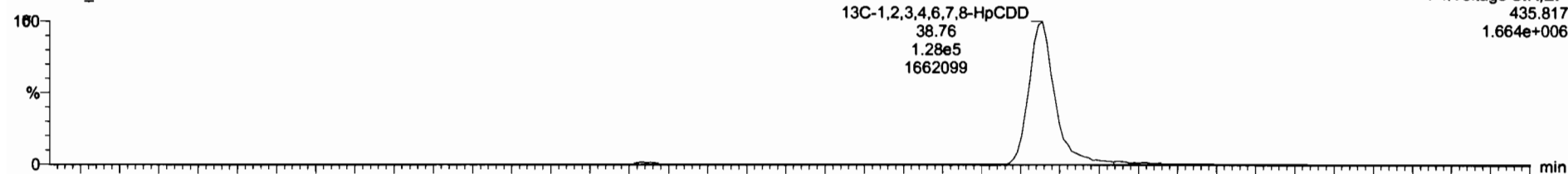


200604R1_4

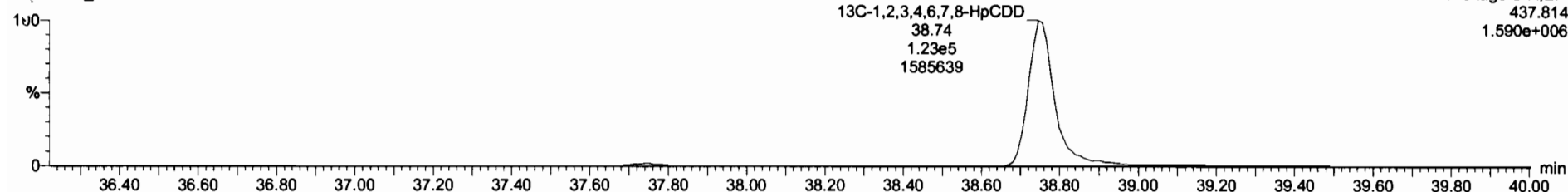


13C-1,2,3,4,6,7,8-HpCDD

200604R1_4



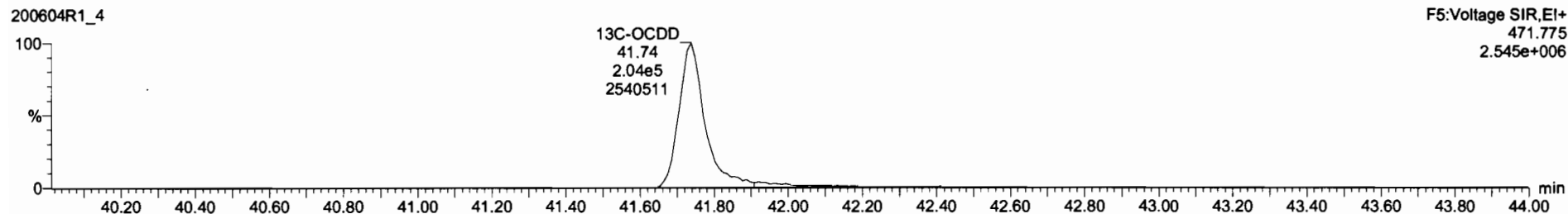
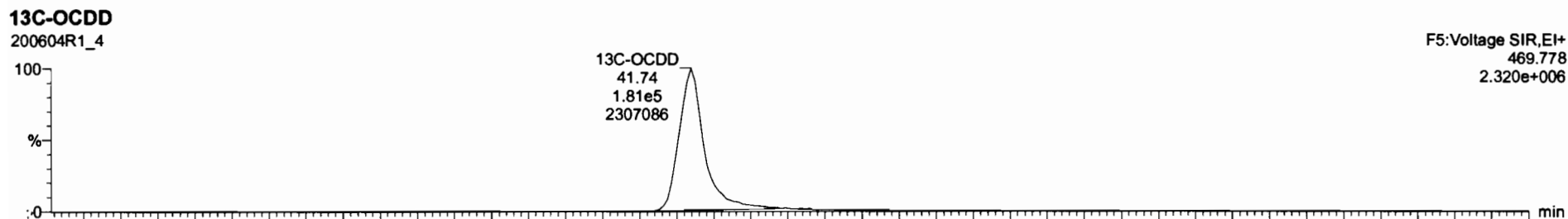
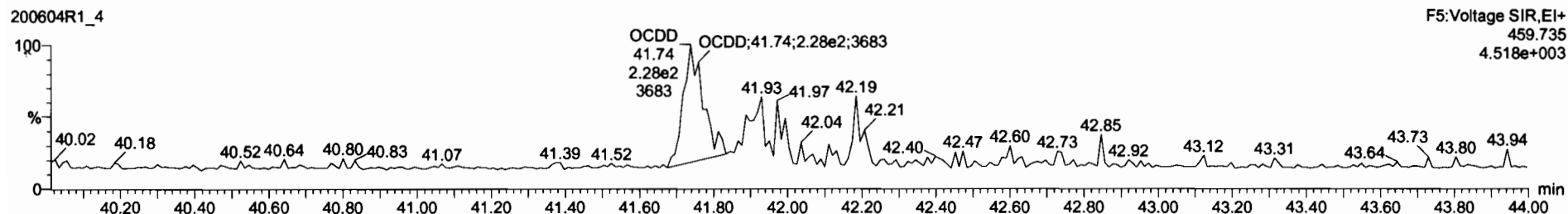
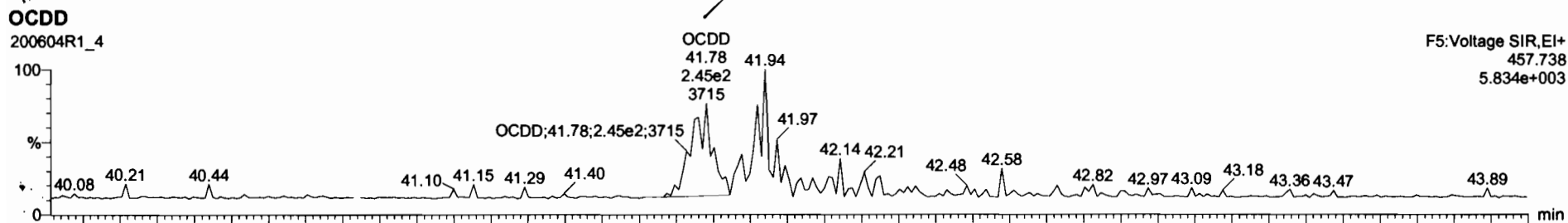
200604R1_4

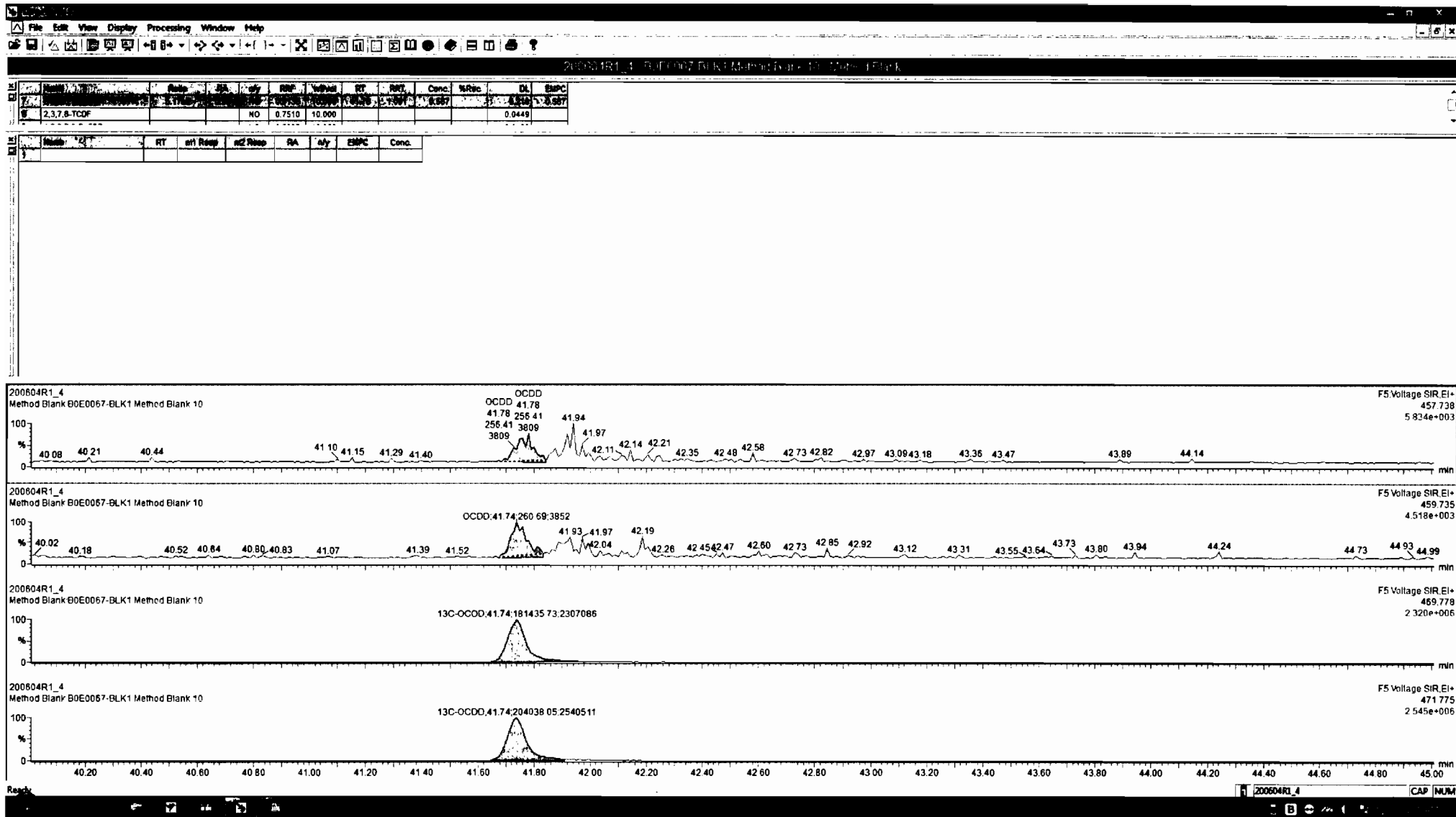


Dataset: Untitled

Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank



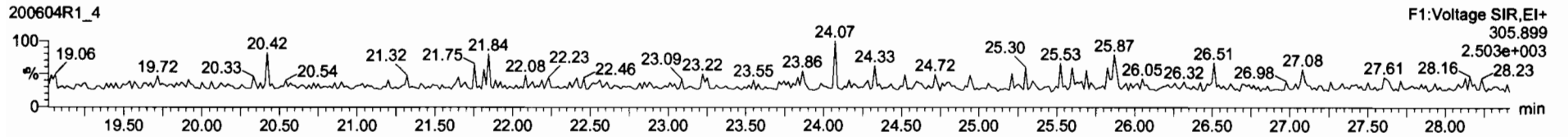
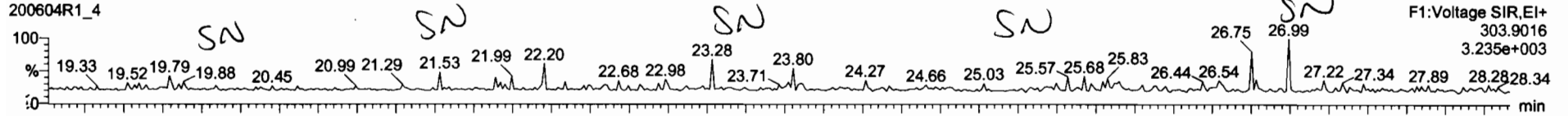


Dataset: Untitled

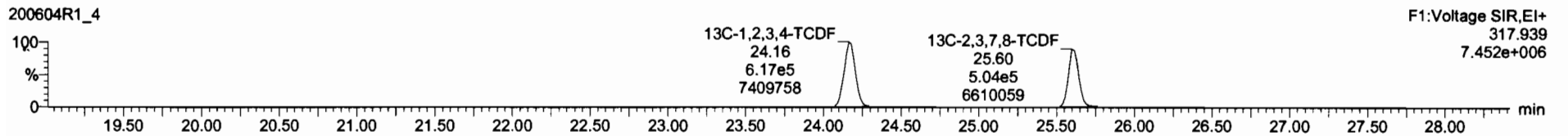
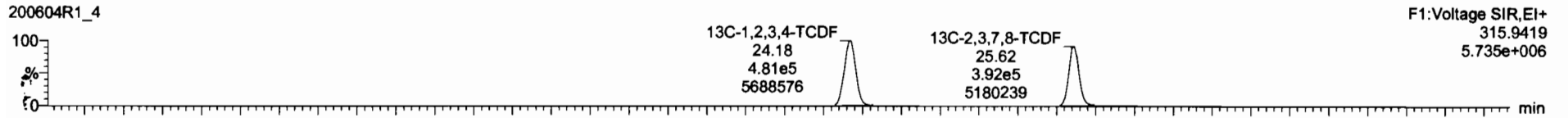
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

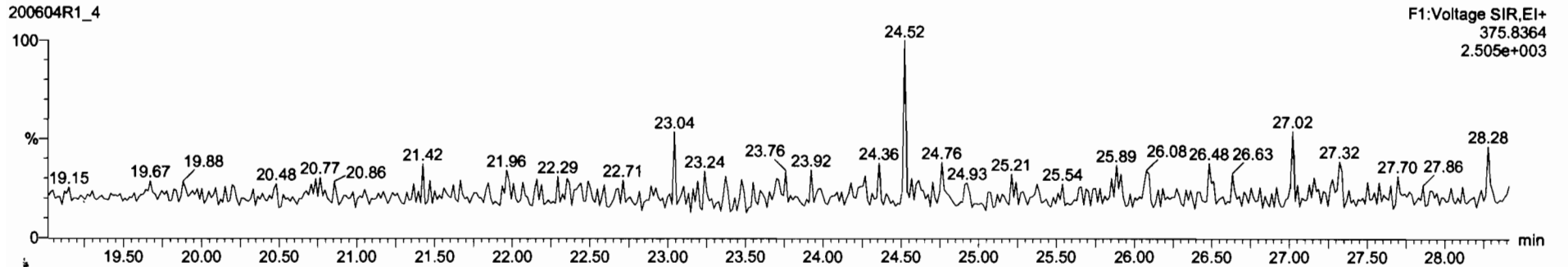
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

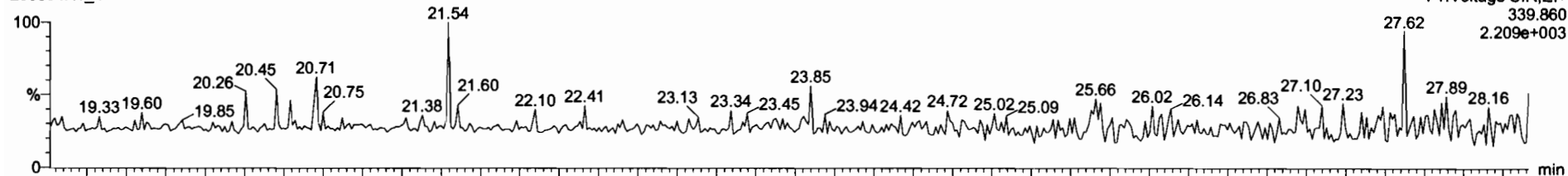
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time

Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

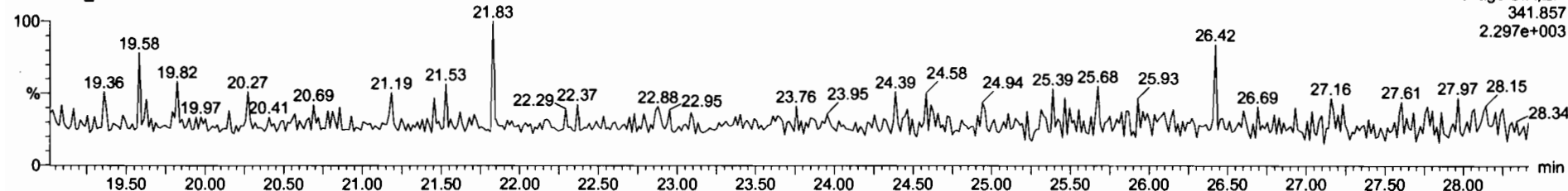
Name: 200604R1_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

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200604R1_4

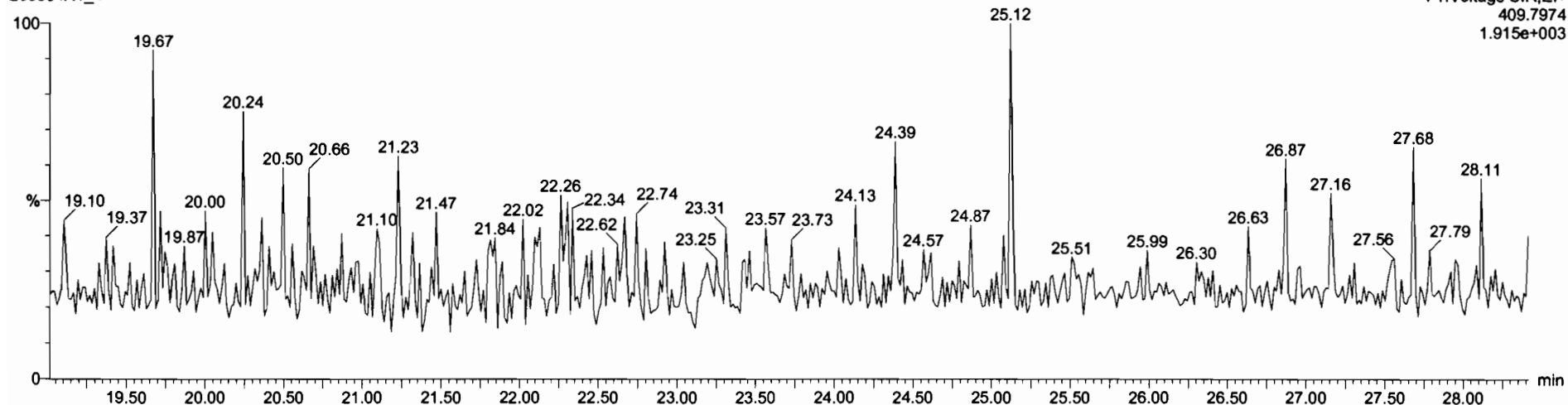


200604R1_4



DPE6

200604R1_4

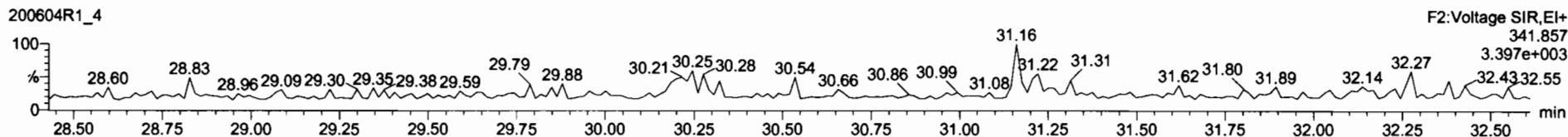
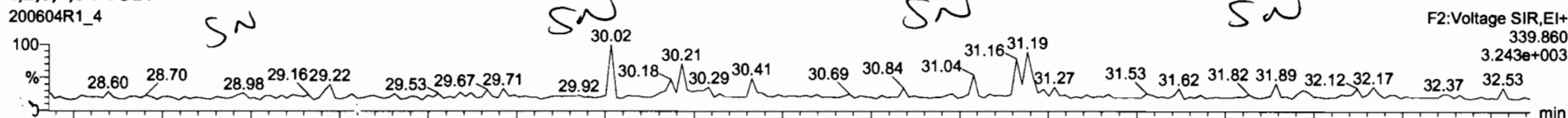


Dataset: Untitled

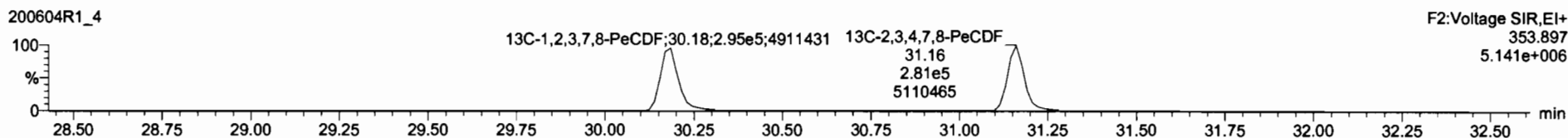
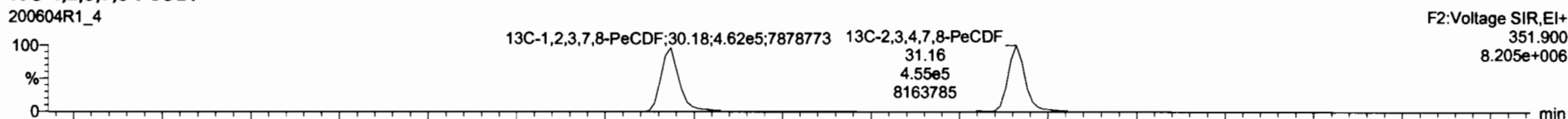
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

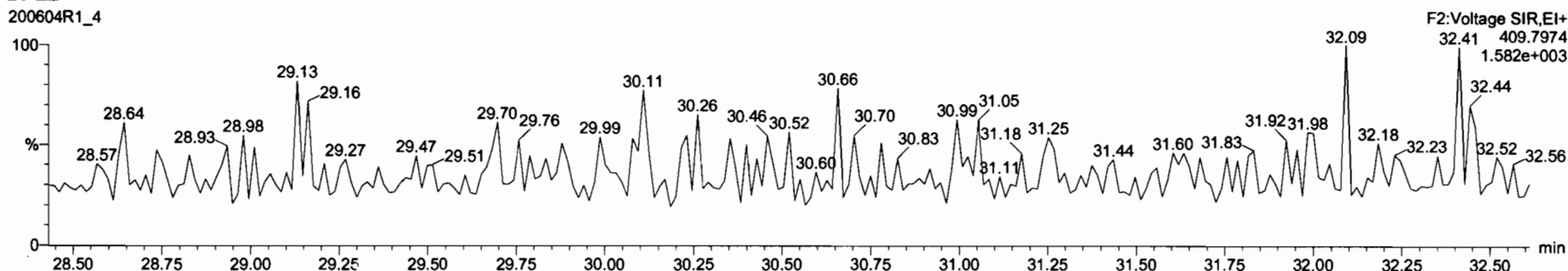
1,2,3,7,8-PeCDF



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



DPE2



Dataset: Untitled

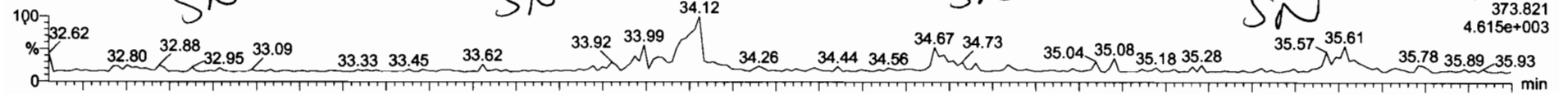
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time

Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

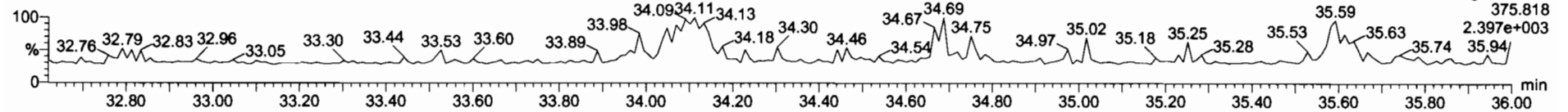
Name: 200604R1_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

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

200604R1_4

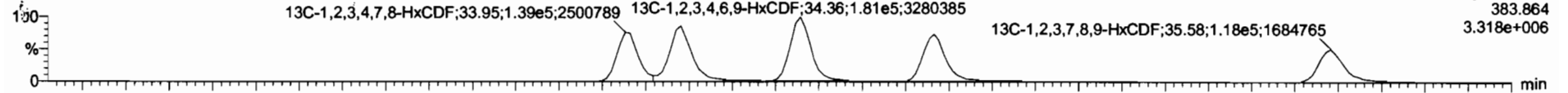


200604R1_4

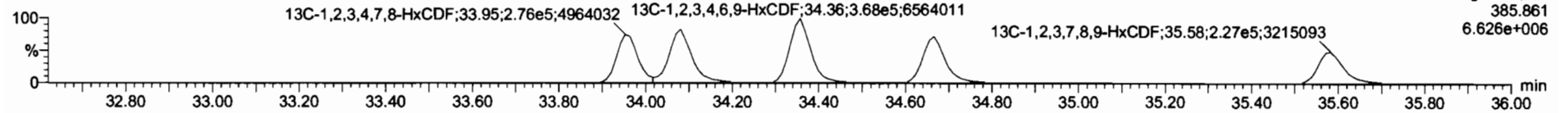


13C-1,2,3,4,7,8-HxCDF

200604R1_4

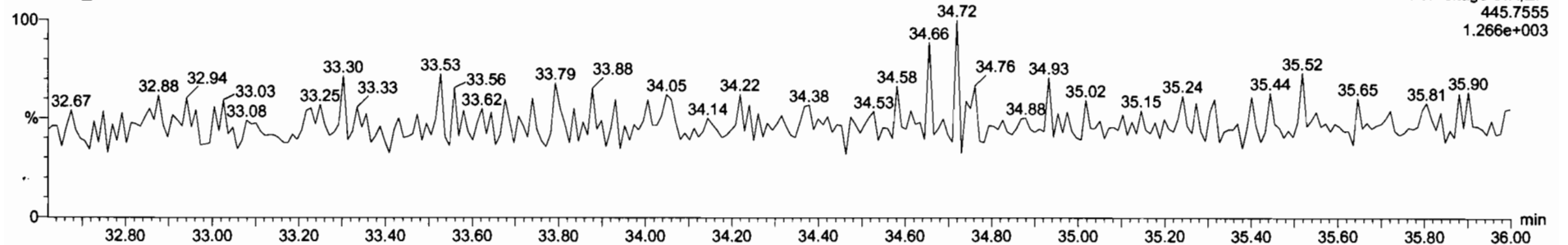


200604R1_4



DPE3

200604R1_4

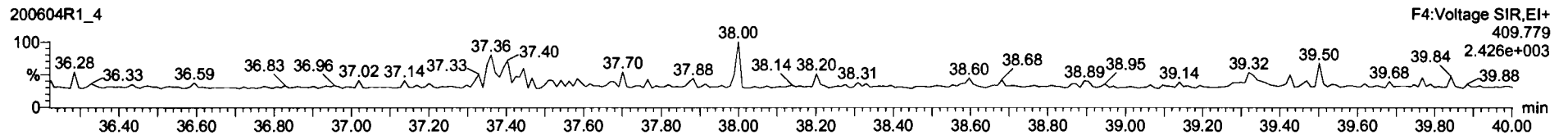
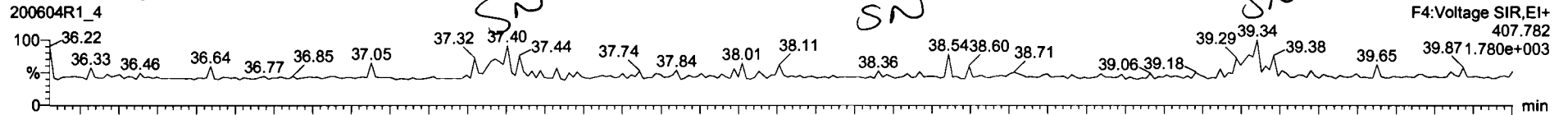


Dataset: Untitled

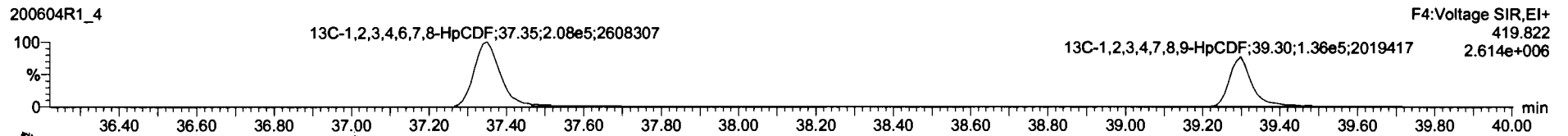
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

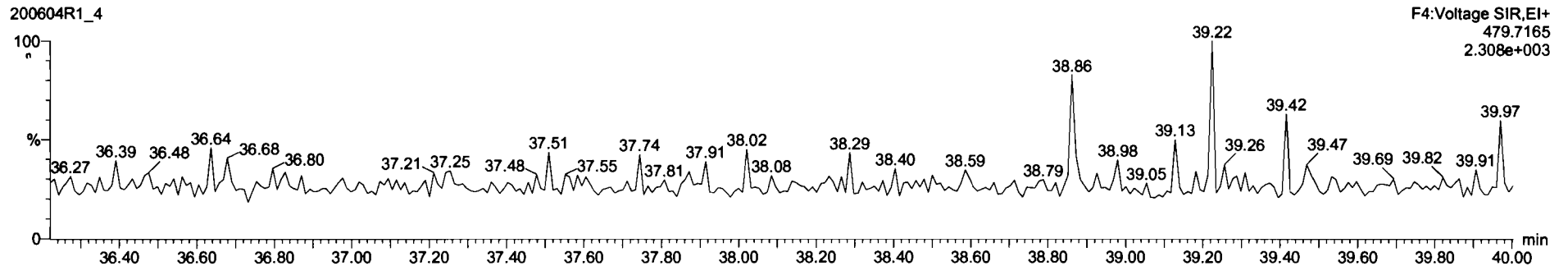
1,2,3,4,6,7,8-HpCDF



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



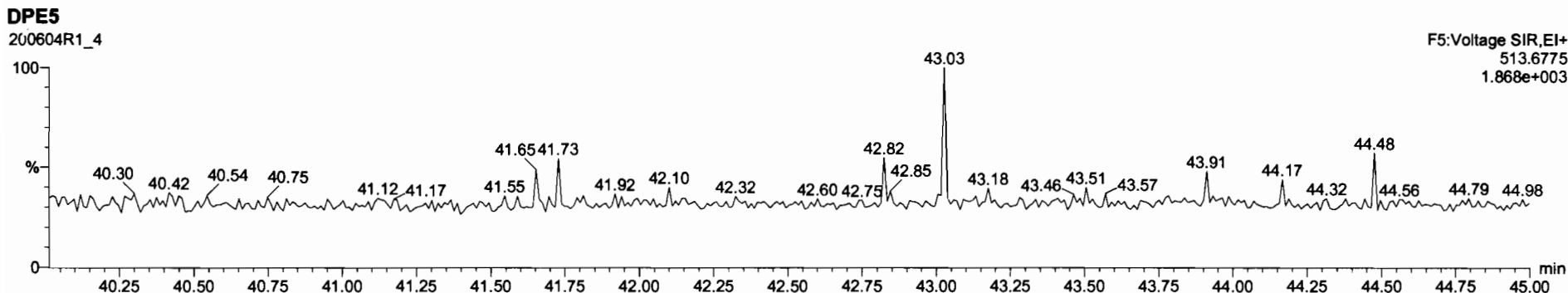
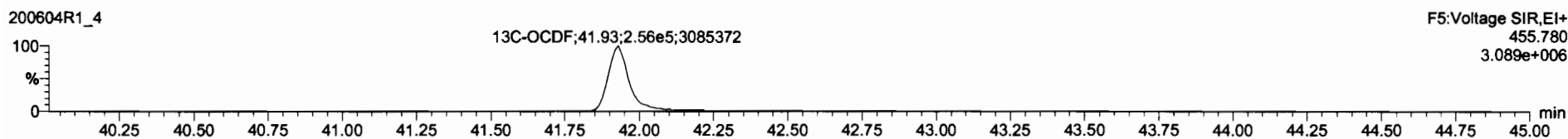
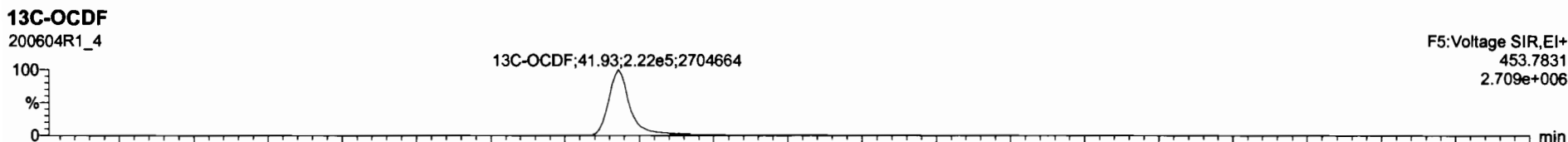
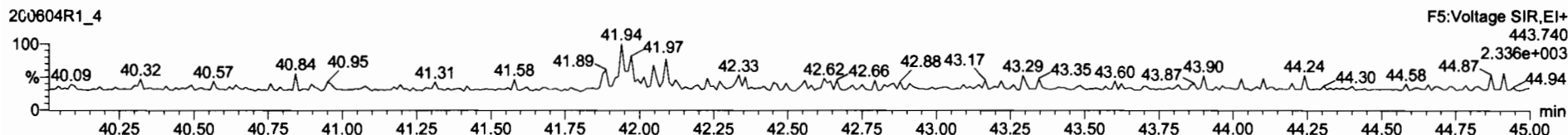
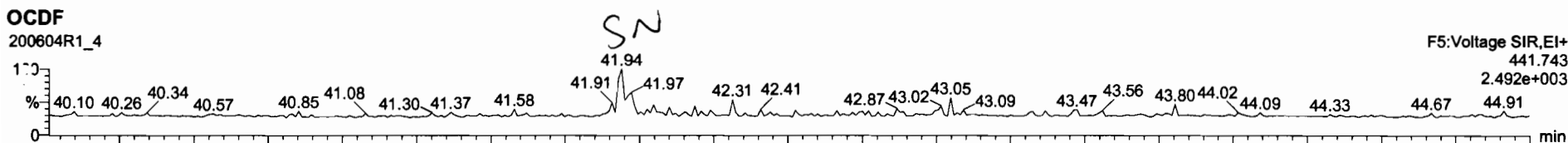
DPE4



Dataset: Untitled

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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

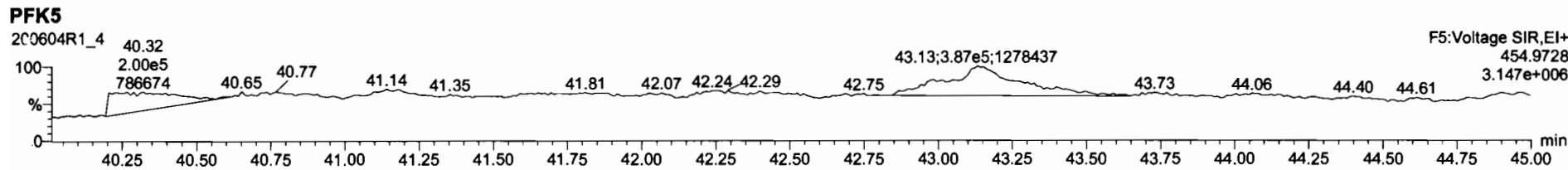
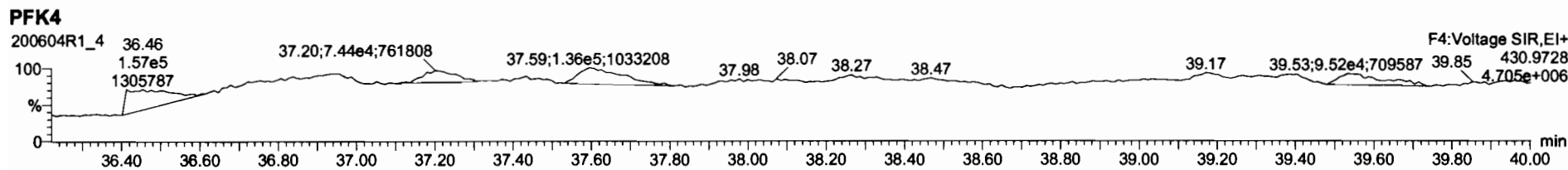
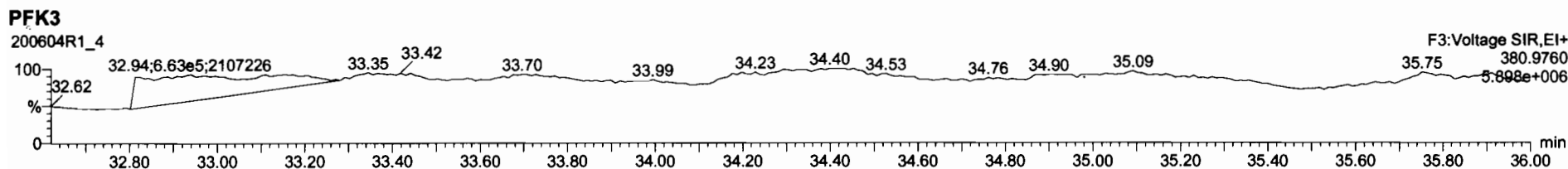
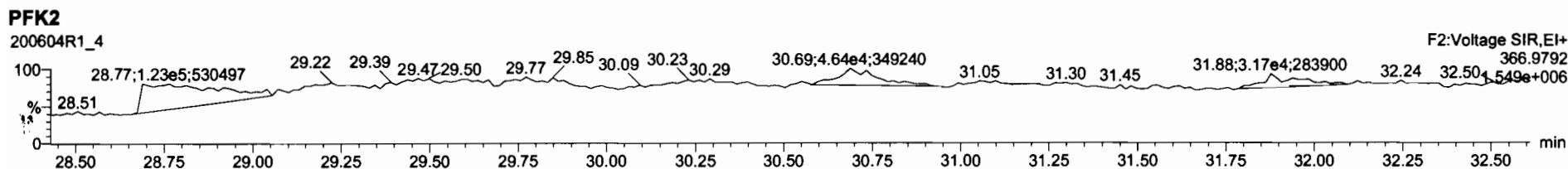
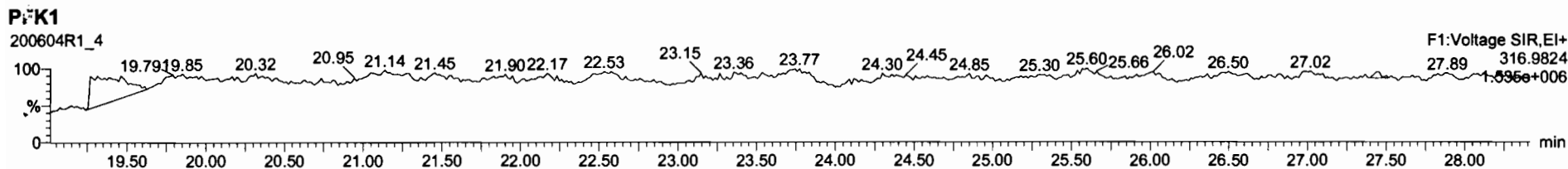
Name: 200604R1_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank



Dataset: Untitled

Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200604R1\200604R1-2.qld

Last Altered: Friday, June 05, 2020 11:07:38 Pacific Daylight Time
Printed: Friday, June 05, 2020 11:07:53 Pacific Daylight Time

GRB 06/05/2020

CT06/09/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Callibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1_2, Date: 04-Jun-2020, Time: 09:01:24, ID: B0E0067-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc	%Rec	D	EMPC
1	2,3,7,8-TCDD	6.00e4	0.78	NO	0.888	10.000	26.531	26.53	1.001	1.001	16.964		0.0820	17.0
2	1,2,3,7,8-PeCDD	2.29e5	0.60	NO	0.908	10.000	31.473	31.47	1.001	1.000	87.595		0.178	87.6
3	1,2,3,4,7,8-HxCDD	1.73e5	1.25	NO	1.03	10.000	34.836	34.84	1.000	1.000	90.976		0.383	91.0
4	1,2,3,6,7,8-HxCDD	1.97e5	1.24	NO	0.892	10.000	34.932	34.94	1.000	1.000	93.159		0.404	93.2
5	1,2,3,7,8,9-HxCDD	1.70e5	1.28	NO	0.887	10.000	35.220	35.22	1.000	1.000	90.514		0.461	90.5
6	1,2,3,4,6,7,8-HpCDD	1.17e5	0.97	NO	0.864	10.000	38.757	38.76	1.000	1.000	92.553		0.403	92.6
7	OCDD	2.12e5	0.86	NO	0.914	10.000	41.716	41.73	1.000	1.000	188.51		0.589	189
8	2,3,7,8-TCDF	6.59e4	0.74	NO	0.751	10.000	25.627	25.63	1.001	1.001	17.941		0.0711	17.9
9	1,2,3,7,8-PeCDF	3.41e5	1.54	NO	0.893	10.000	30.190	30.18	1.001	1.000	89.816		0.284	89.8
10	2,3,4,7,8-PeCDF	3.61e5	1.54	NO	0.935	10.000	31.177	31.16	1.001	1.000	91.569		0.263	91.6
11	1,2,3,4,7,8-HxCDF	2.02e5	1.21	NO	0.884	10.000	33.952	33.96	1.000	1.000	93.578		0.353	93.6
12	1,2,3,6,7,8-HxCDF	2.50e5	1.25	NO	0.889	10.000	34.079	34.08	1.000	1.000	95.832		0.308	95.8
13	2,3,4,6,7,8-HxCDF	2.17e5	1.19	NO	0.934	10.000	34.690	34.67	1.001	1.000	91.511		0.328	91.5
14	1,2,3,7,8,9-HxCDF	1.64e5	1.19	NO	0.871	10.000	35.571	35.58	1.000	1.000	94.044		0.526	94.0
15	1,2,3,4,6,7,8-HpCDF	1.42e5	1.03	NO	0.873	10.000	37.365	37.35	1.001	1.001	94.419		0.429	94.4
16	1,2,3,4,7,8,9-HpCDF	1.09e5	1.01	NO	1.01	10.000	39.278	39.30	1.000	1.001	94.414		0.482	94.4
17	OCDF	2.19e5	0.85	NO	0.806	10.000	41.908	41.92	1.000	1.000	189.13		0.634	189
18	13C-2,3,7,8-TCDD	7.96e5	0.77	NO	1.16	10.000	26.538	26.50	1.026	1.025	194.98	97.5	0.255	
19	13C-1,2,3,7,8-PeCDD	5.76e5	0.62	NO	0.849	10.000	31.729	31.45	1.227	1.216	192.16	96.1	0.393	
20	13C-1,2,3,4,7,8-HxCDD	3.69e5	1.27	NO	0.779	10.000	34.830	34.83	1.014	1.014	177.54	88.8	0.483	
21	13C-1,2,3,6,7,8-HxCDD	4.73e5	1.31	NO	1.02	10.000	34.944	34.93	1.017	1.017	174.58	87.3	0.370	
22	13C-1,2,3,7,8,9-HxCDD	4.23e5	1.27	NO	0.903	10.000	35.215	35.21	1.025	1.025	175.90	87.9	0.417	
23	13C-1,2,3,4,6,7,8-HpCDD	2.93e5	1.03	NO	0.689	10.000	38.739	38.74	1.128	1.128	159.44	79.7	0.623	
24	13C-OCDD	4.93e5	0.85	NO	0.652	10.000	41.761	41.72	1.216	1.215	283.79	70.9	0.959	
25	13C-2,3,7,8-TCDF	9.78e5	0.78	NO	1.06	10.000	25.578	25.60	0.989	0.990	173.71	86.9	0.371	
26	13C-1,2,3,7,8-PeCDF	8.52e5	1.58	NO	0.838	10.000	30.111	30.17	1.165	1.167	191.22	95.6	0.495	
27	13C-2,3,4,7,8-PeCDF	8.43e5	1.58	NO	0.817	10.000	31.065	31.15	1.202	1.205	194.10	97.0	0.508	
28	13C-1,2,3,4,7,8-HxCDF	4.89e5	0.50	NO	1.01	10.000	33.961	33.95	0.989	0.989	181.91	91.0	0.744	
29	13C-1,2,3,6,7,8-HxCDF	5.86e5	0.50	NO	1.17	10.000	34.085	34.07	0.992	0.992	188.53	94.3	0.642	
30	13C-2,3,4,6,7,8-HxCDF	5.09e5	0.48	NO	1.02	10.000	34.659	34.65	1.009	1.009	186.77	93.4	0.734	
31	13C-1,2,3,7,8,9-HxCDF	4.01e5	0.51	NO	0.860	10.000	35.558	35.57	1.035	1.036	175.21	87.6	0.872	

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-2.qld

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Printed: Friday, June 05, 2020 11:07:53 Pacific Daylight Time

Name: 200604R1_2, Date: 04-Jun-2020, Time: 09:01:24, ID: B0E0067-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	w/w01	Pred.RT	RT	Pred.RRT	RRT	Conc	%Rec	RSL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.45e5	0.43	NO	0.774	10.000	37.307	37.33	1.086	1.087	166.99	83.5	0.837	
33	13C-1,2,3,4,7,8,9-HpCDF	2.27e5	0.41	NO	0.521	10.000	39.336	39.28	1.145	1.144	163.59	81.8	1.24	
34	13C-OCDF	5.75e5	0.89	NO	0.746	10.000	41.933	41.91	1.221	1.220	289.04	72.3	0.517	
35	37Cl-2,3,7,8-TCDD	3.17e5			1.04	10.000	26.569	26.53	1.028	1.026	86.703	108	0.0615	
36	13C-1,2,3,4-TCDD	7.06e5	0.79	NO	1.00	10.000	25.890	25.85	1.000	1.000	200.00	100	0.295	
37	13C-1,2,3,4-TCDF	1.06e6	0.79	NO	1.00	10.000	24.360	24.18	1.000	1.000	200.00	100	0.393	
38	13C-1,2,3,4,6,9-HxCDF	5.33e5	0.51	NO	1.00	10.000	34.420	34.35	1.000	1.000	200.00	100	0.750	

Dataset: Untitled

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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

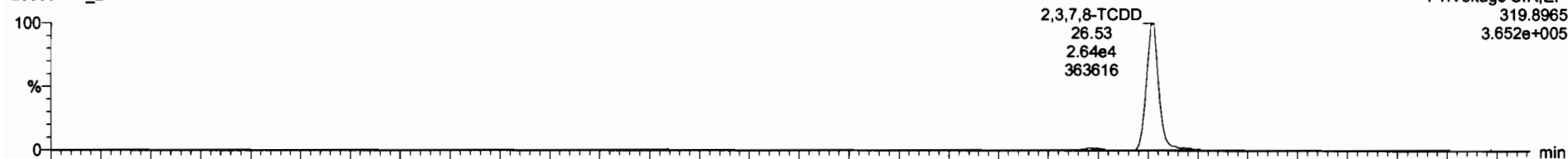
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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

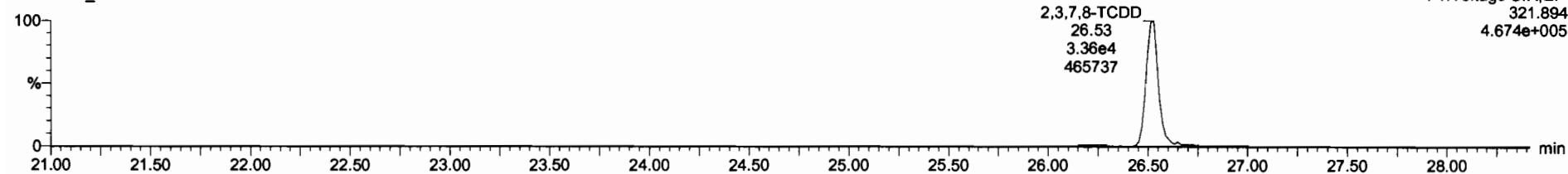
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2,3,7,8-TCDD

200604R1_2

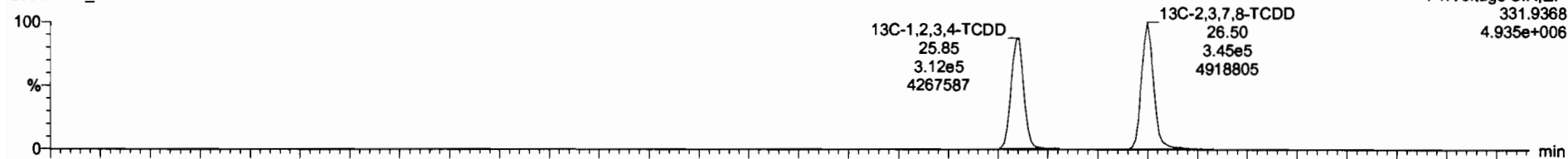


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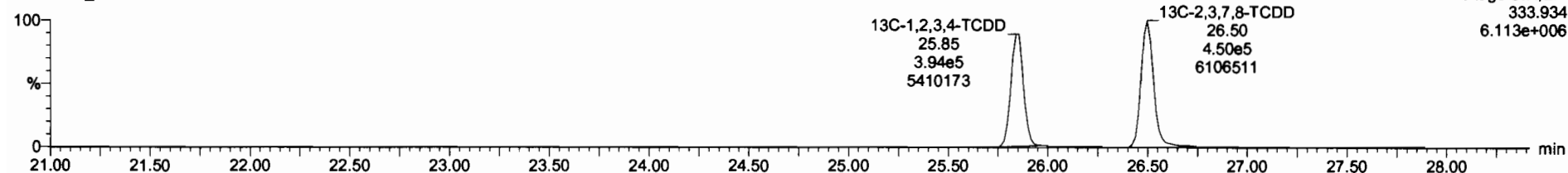


13C-2,3,7,8-TCDD

200604R1_2



200604R1_2



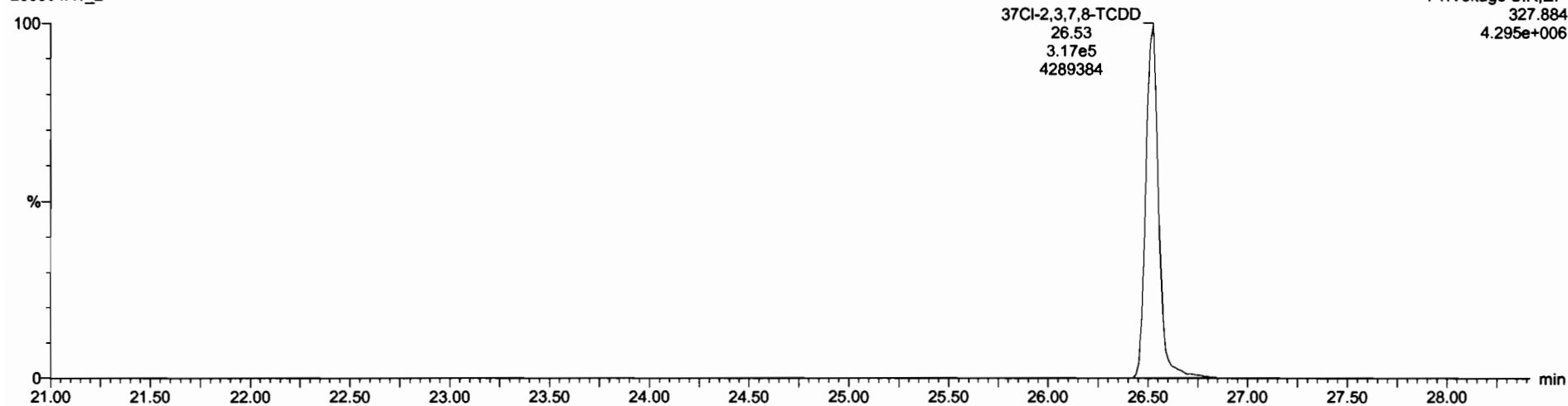
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

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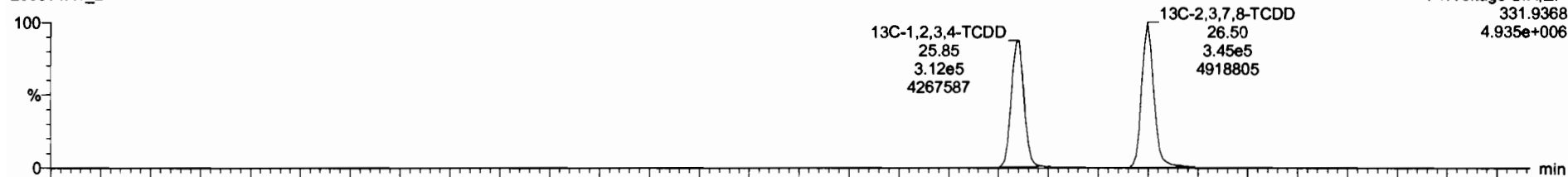
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200604R1_2

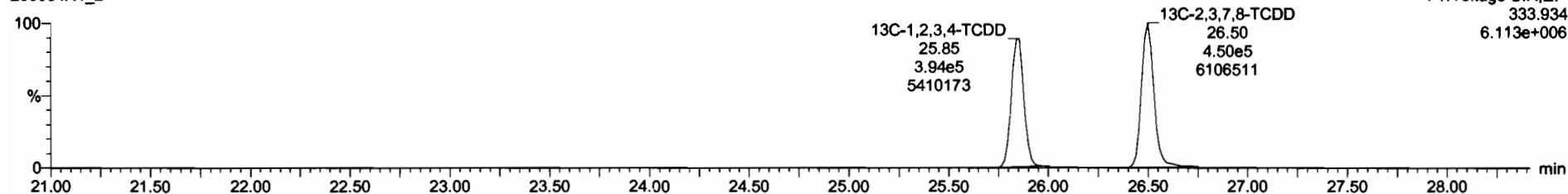


13C-1,2,3,4-TCDD

200604R1_2



200604R1_2



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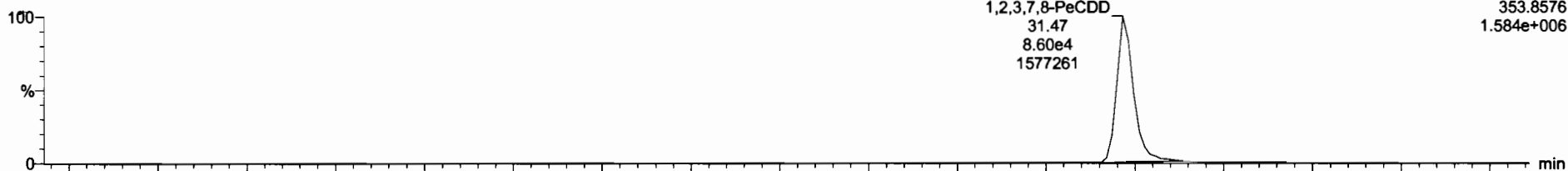
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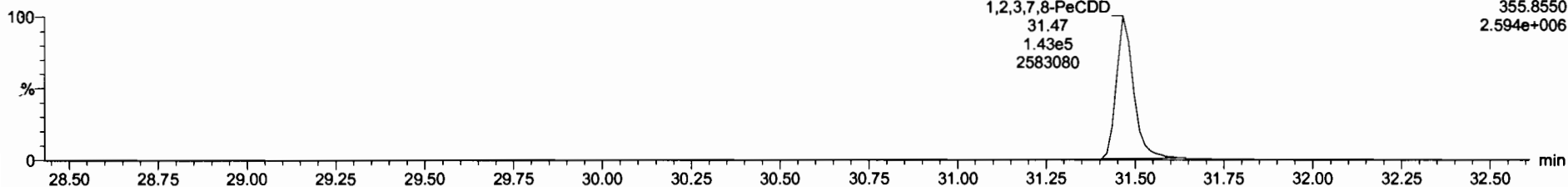
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1,2,3,7,8-PeCDD

200604R1_2

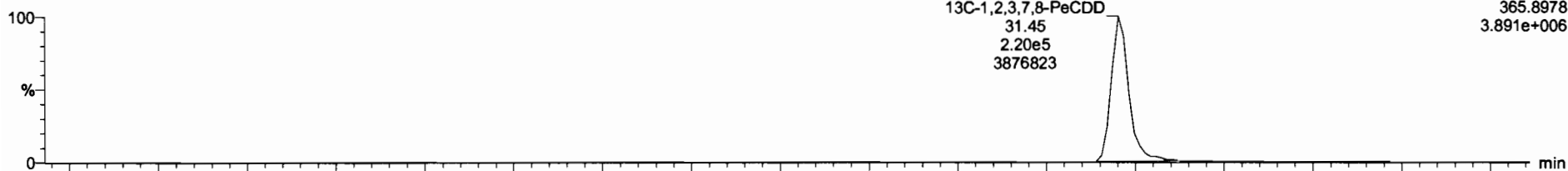


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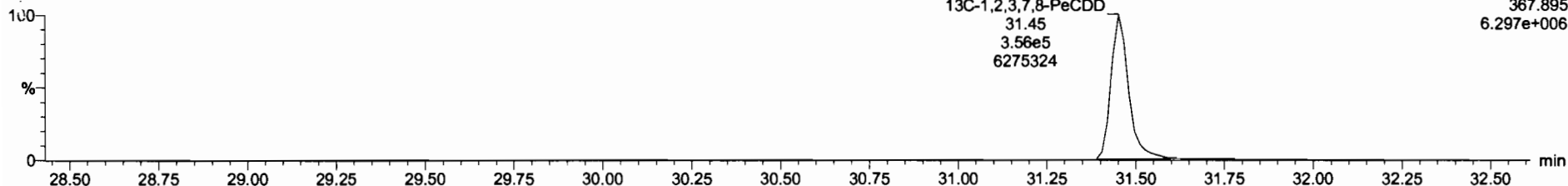


13C-1,2,3,7,8-PeCDD

200604R1_2



200604R1_2



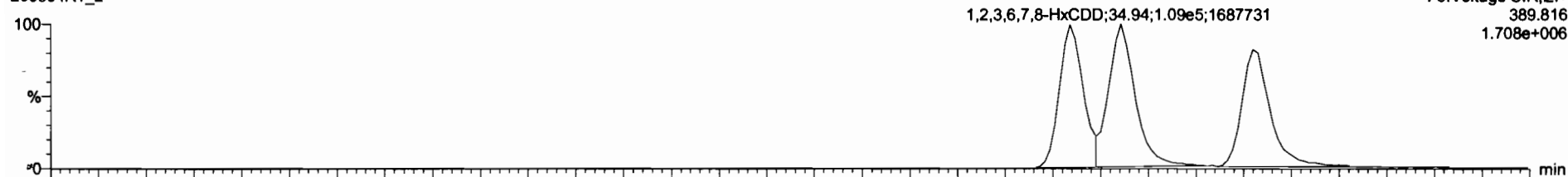
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

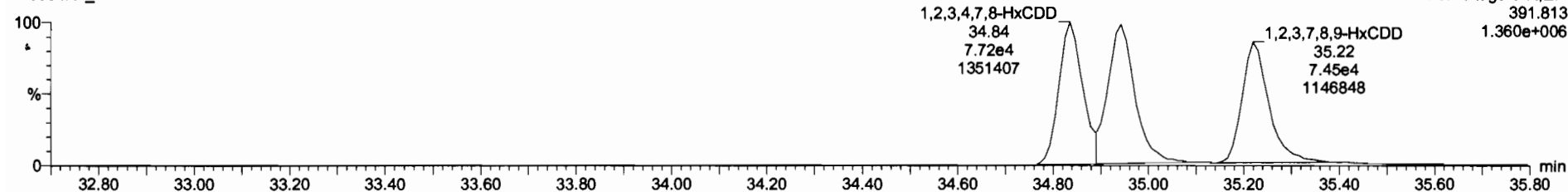
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1,2,3,4,7,8-HxCDD

200604R1_2

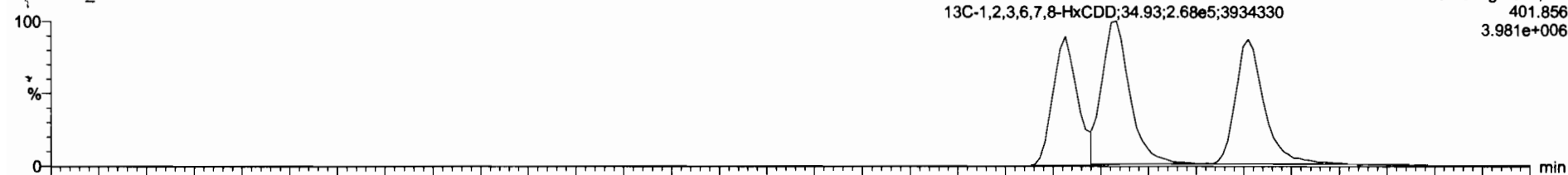


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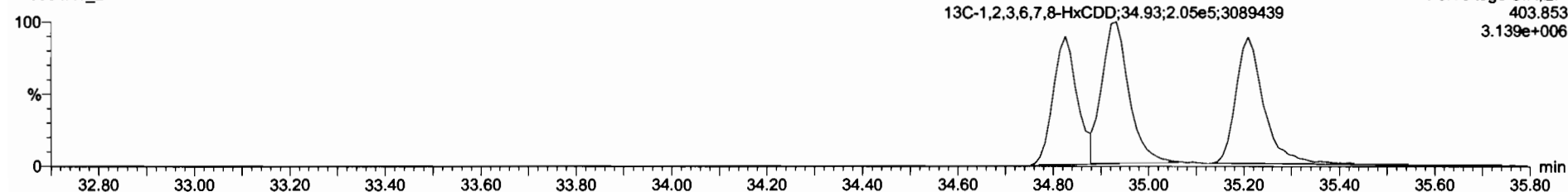


13C-1,2,3,4,7,8-HxCDD

200604R1_2



200604R1_2



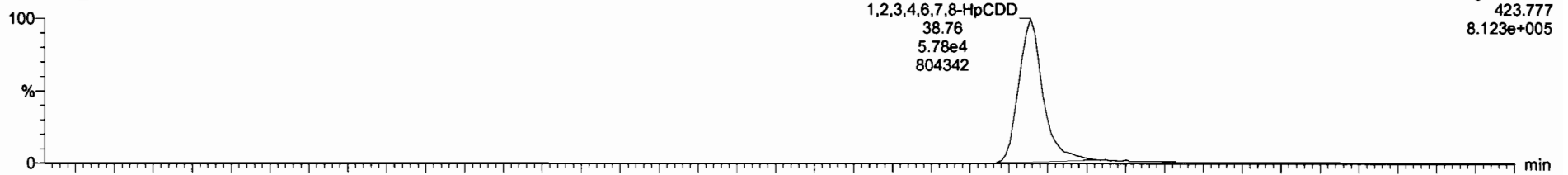
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

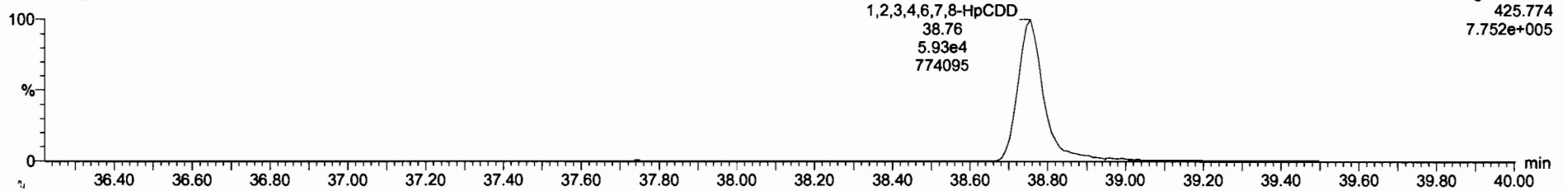
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1,2,3,4,6,7,8-HpCDD

200604R1_2

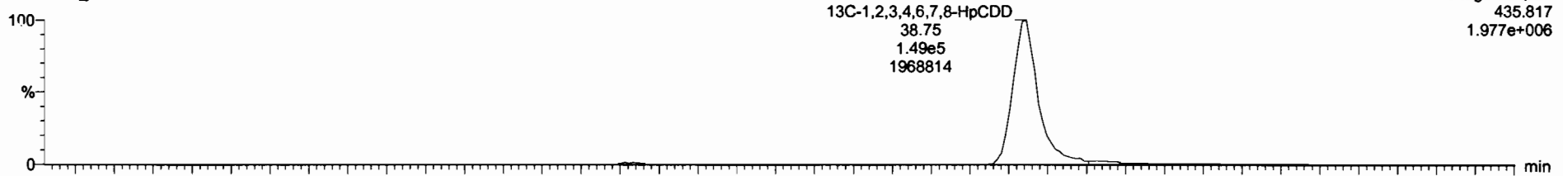


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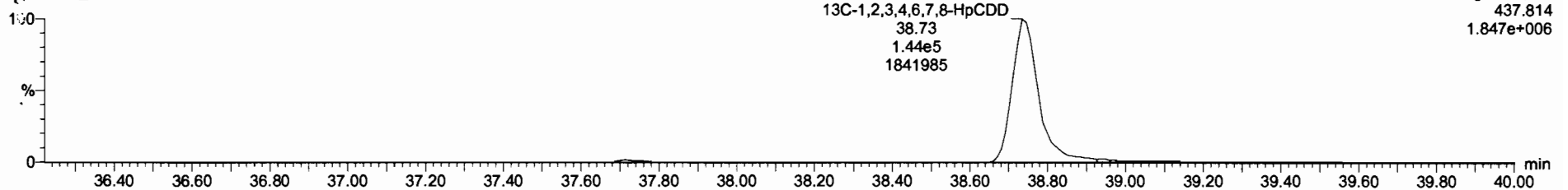


13C-1,2,3,4,6,7,8-HpCDD

200604R1_2



200604R1_2

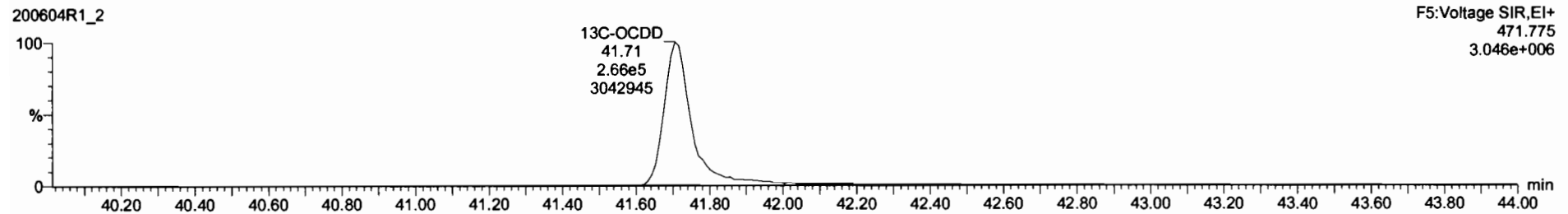
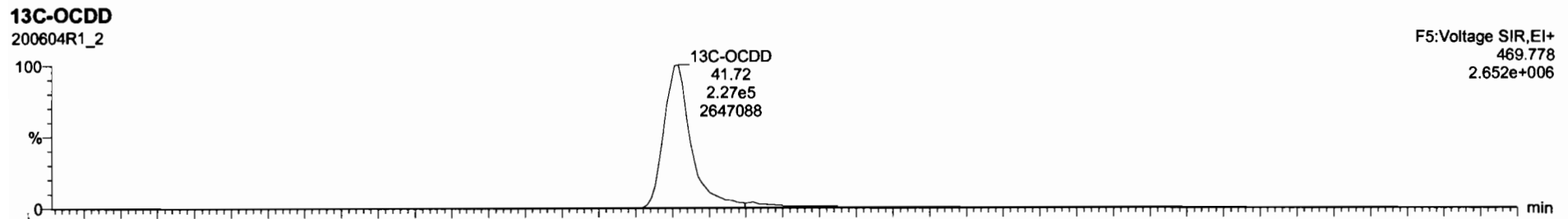
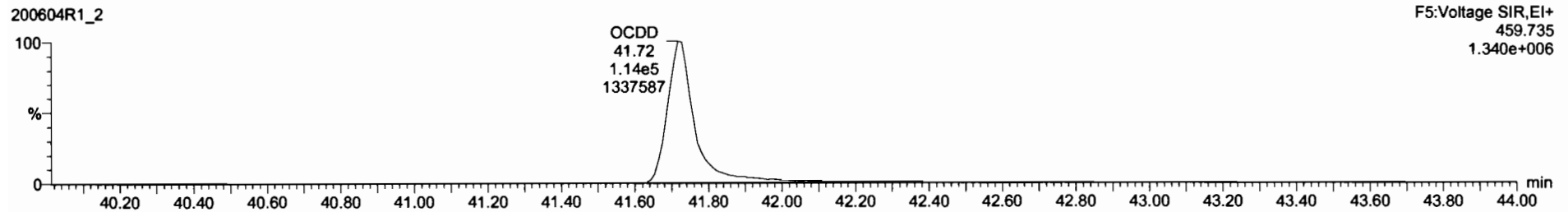
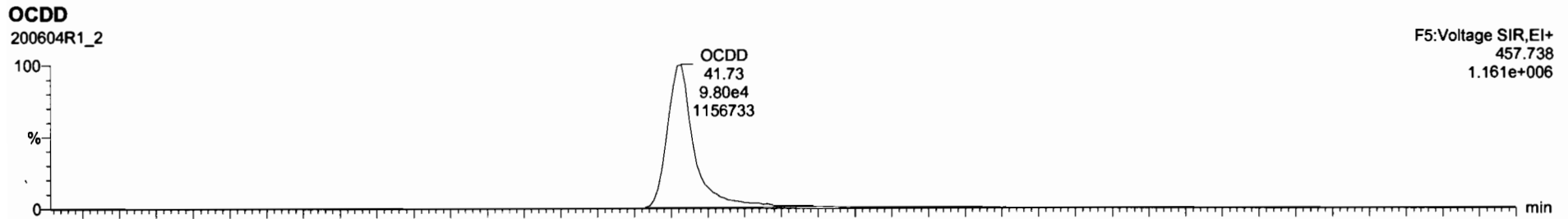


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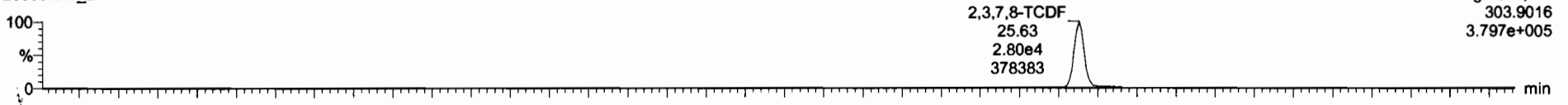
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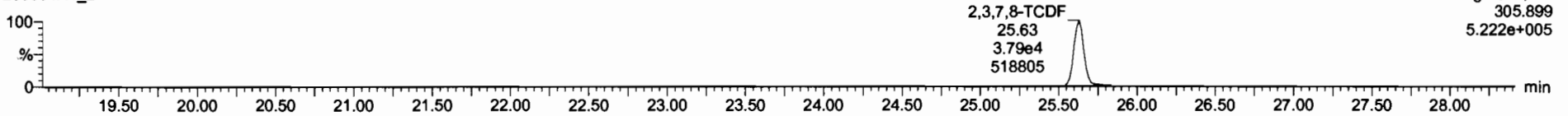
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2,3,7,8-TCDF

200604R1_2

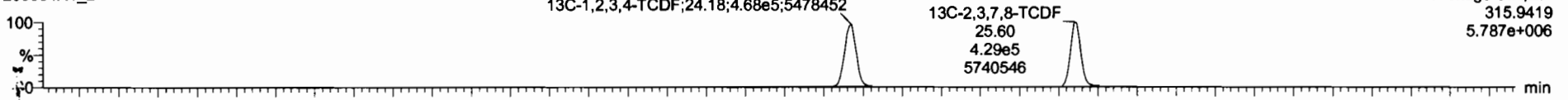


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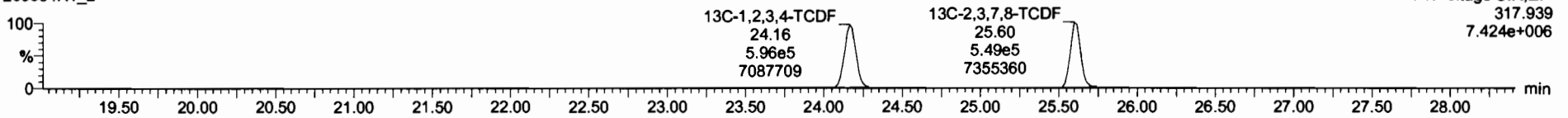


13C-2,3,7,8-TCDF

200604R1_2

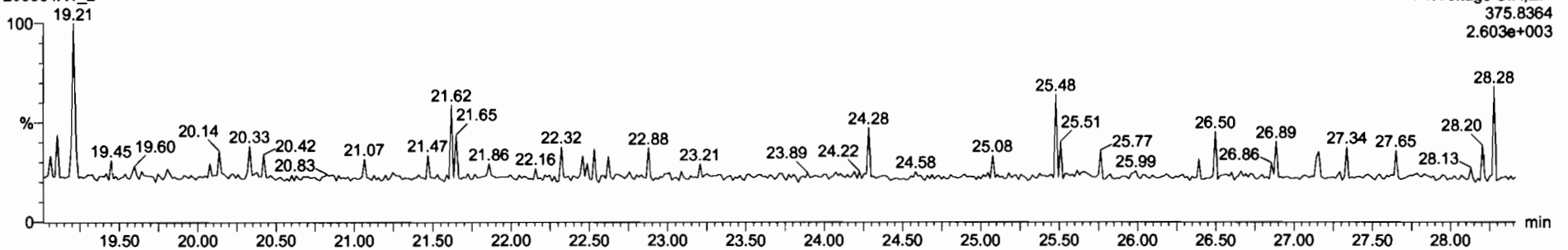


200604R1_2



DPE1

200604R1_2



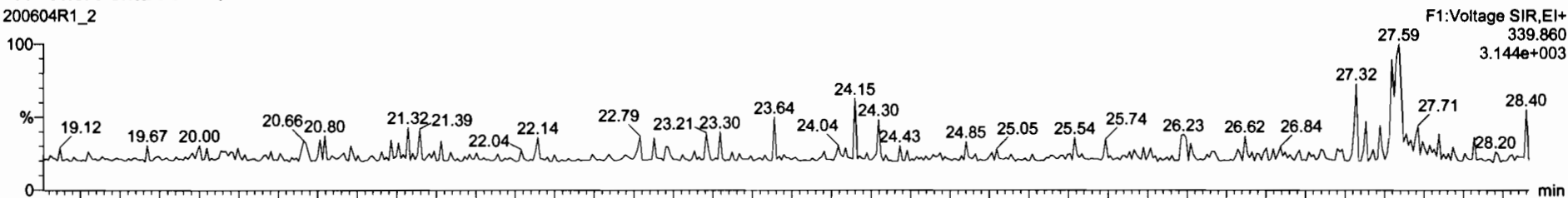
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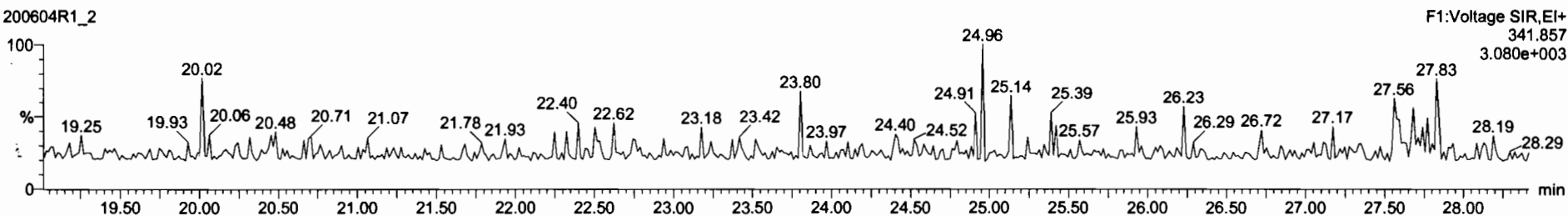
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200604R1_2

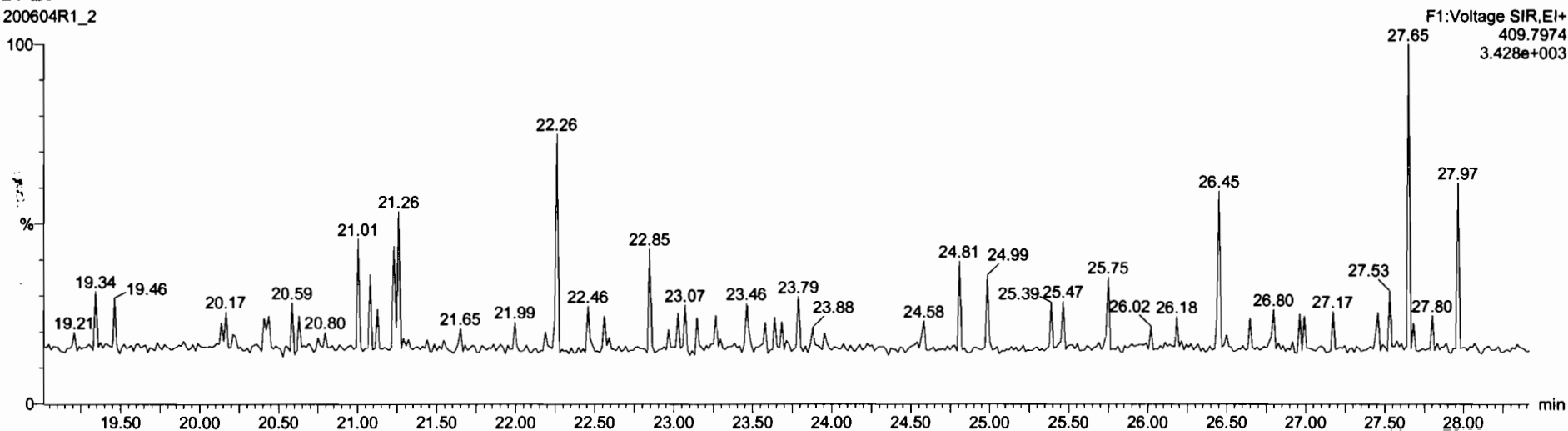


200604R1_2



DPE6

200604R1_2



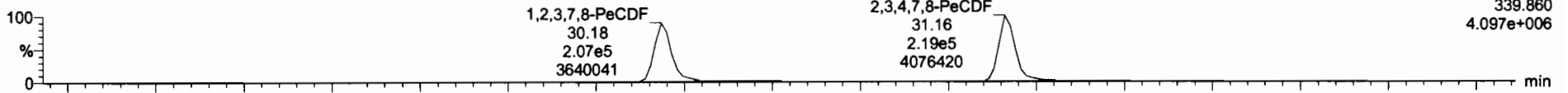
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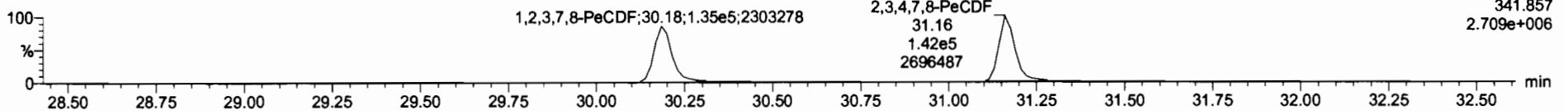
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1,2,3,7,8-PeCDF

200604R1_2

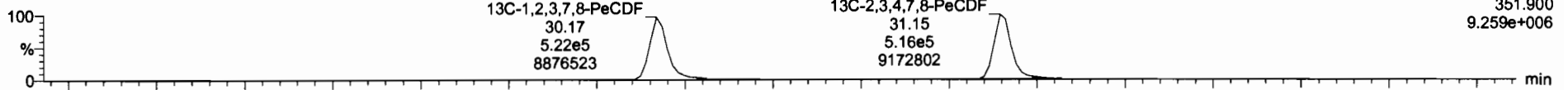


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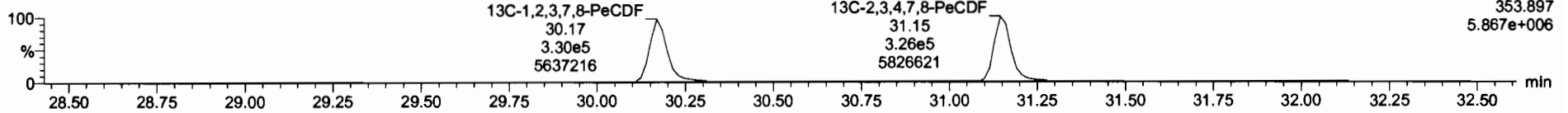


13C-1,2,3,7,8-PeCDF

200604R1_2

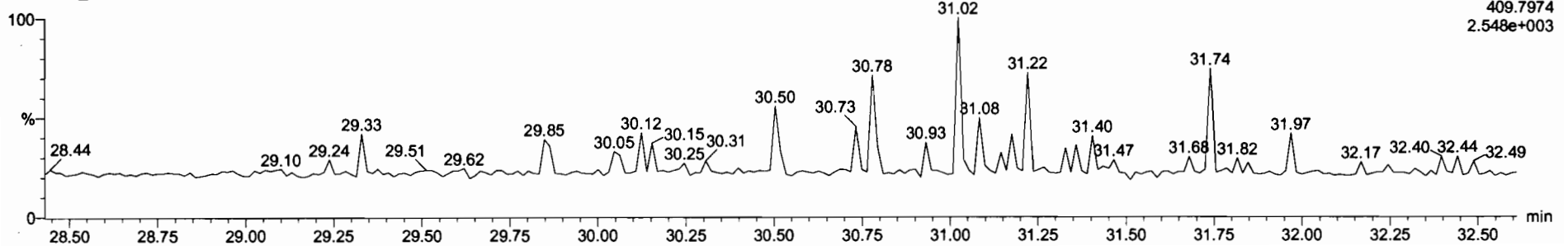


200604R1_2



DPE2

200604R1_2



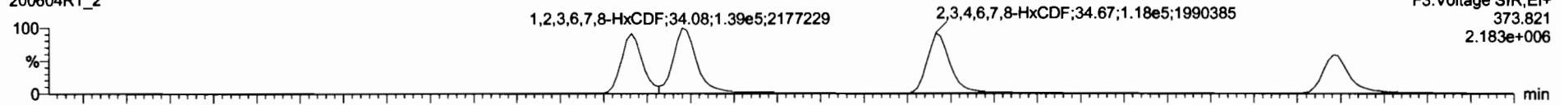
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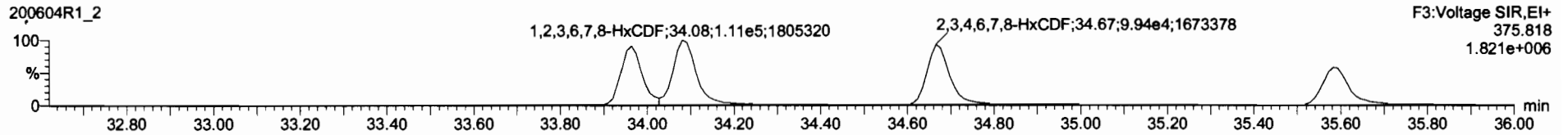
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1,2,3,4,7,8-HxCDF

200604R1_2

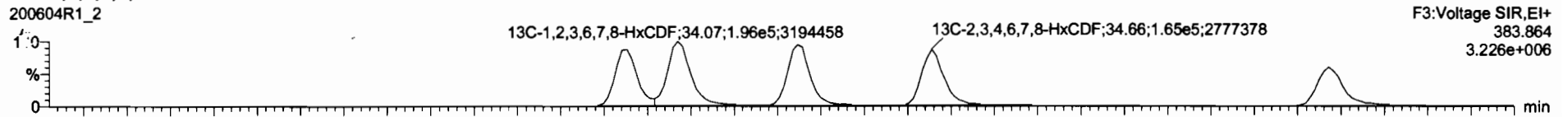


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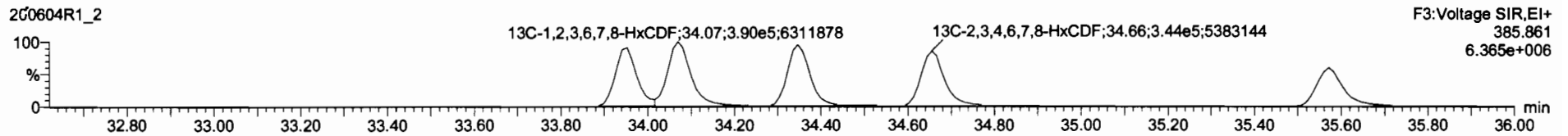


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200604R1_2

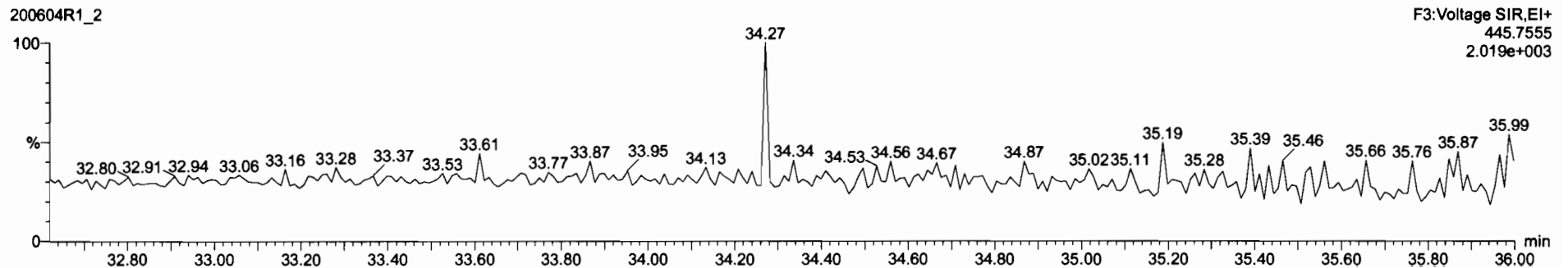


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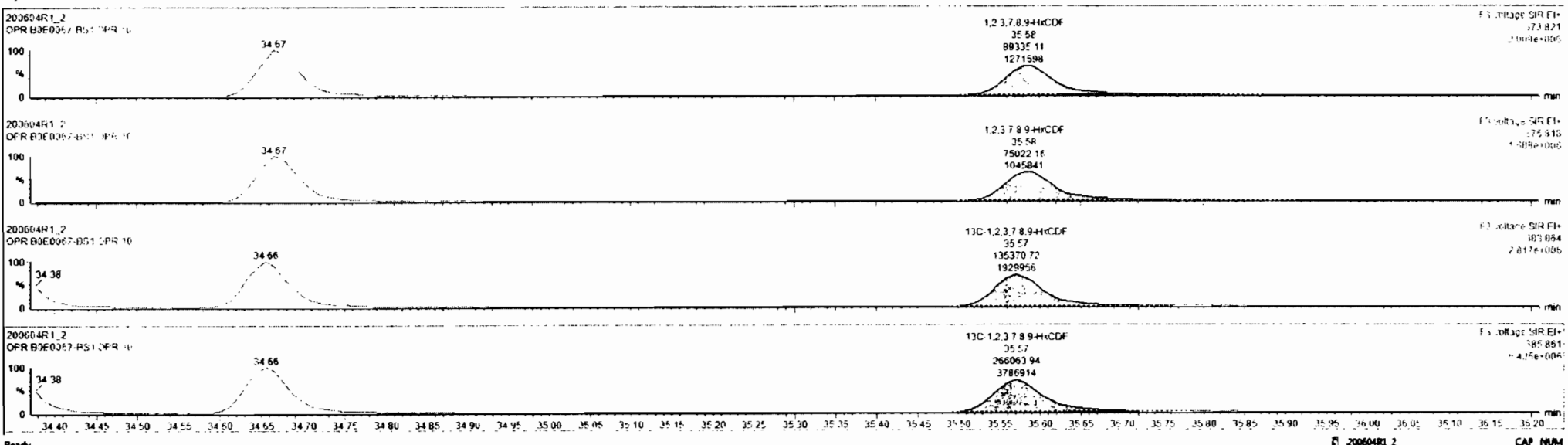
DPE3

200604R1_2



SI	Name	Resp	RA	aly	RSP	wVol	RT	RRT	Conc	%Rec	DL	EMPC
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14	1,2,3,4,6,7,8-HxCDF	1.84e5	1.19	NO	0.8727	10.000	35.58	1.000	94.9	0.528	94.9	

SI	Name	RT	m1 Resp	m2 Resp	DA	aly	EMPC	Conc
1								



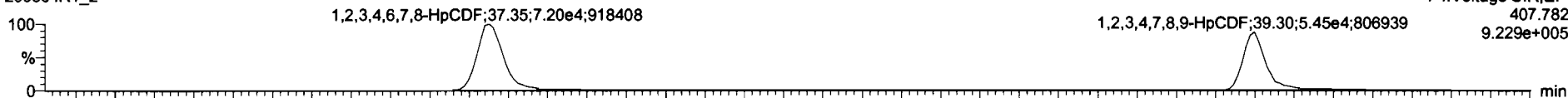
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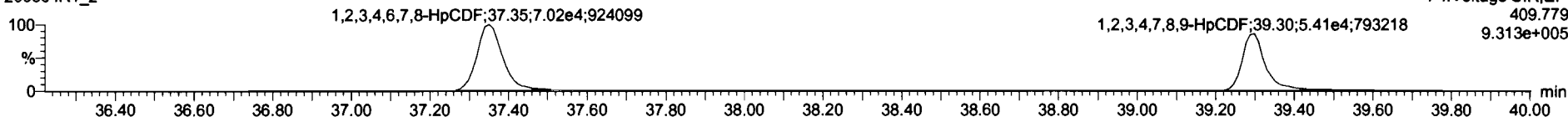
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1,2,3,4,6,7,8-HpCDF

200604R1_2

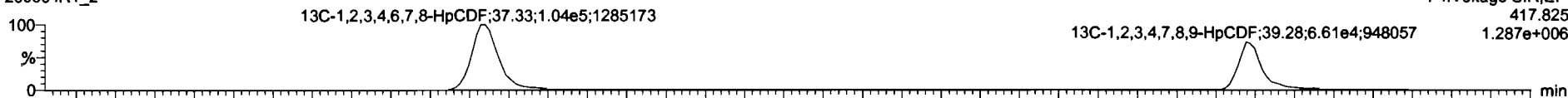


200604R1_2

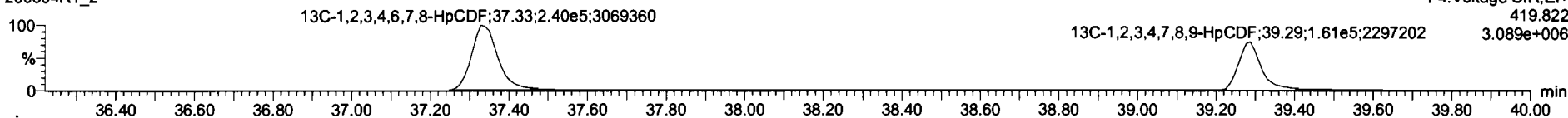


13C-1,2,3,4,6,7,8-HpCDF

200604R1_2

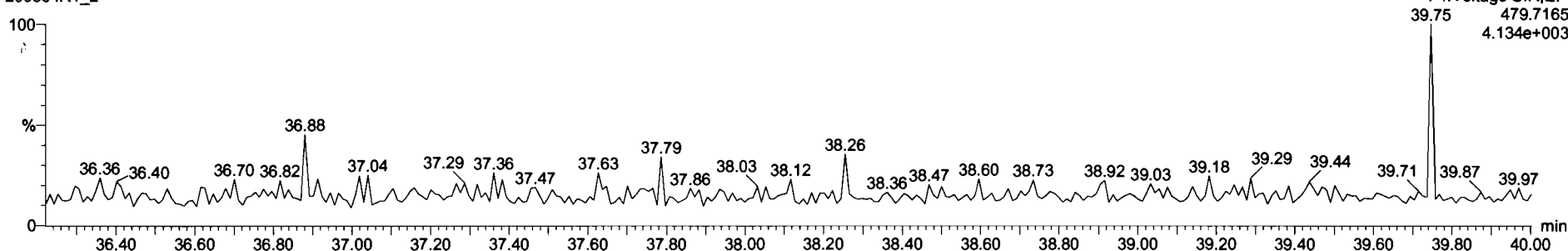


200604R1_2



DPE4

200604R1_2



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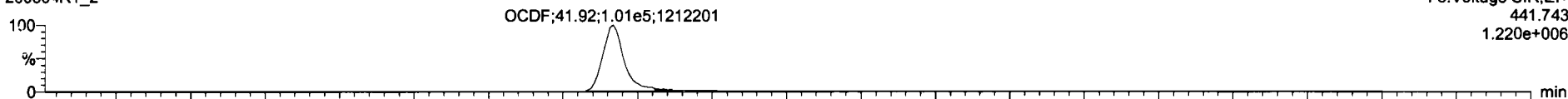
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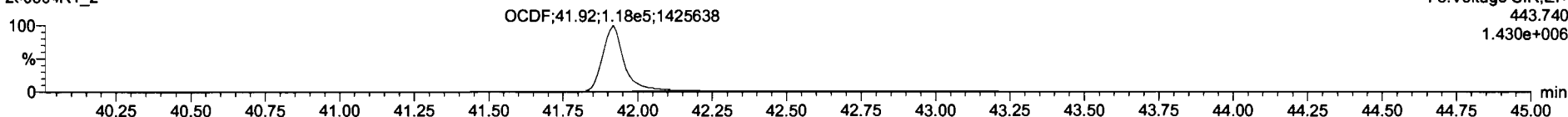
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OCDF

200604R1_2

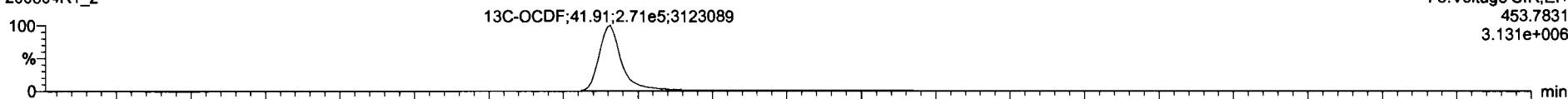


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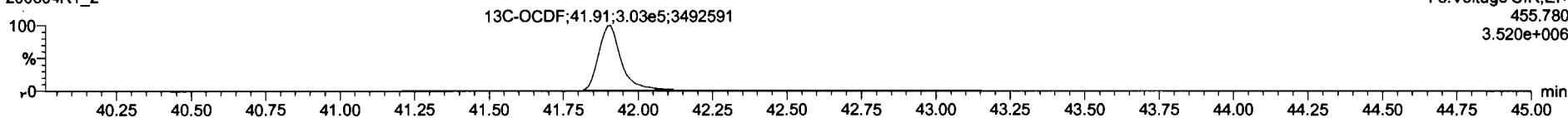


13C-OCDF

200604R1_2

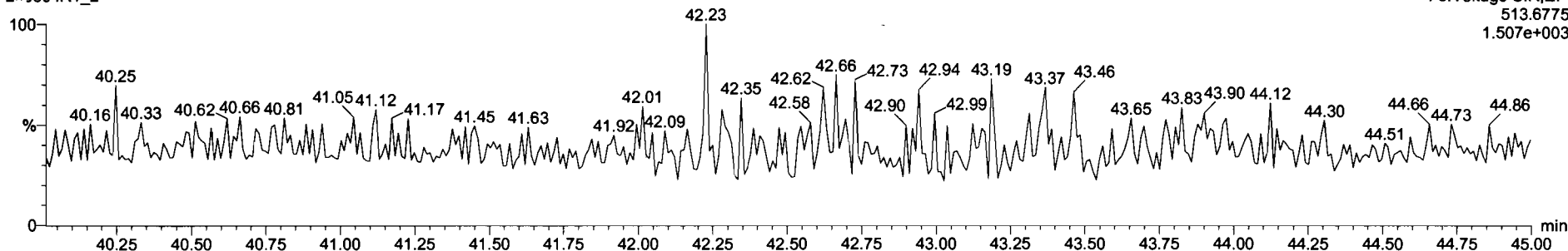


200604R1_2



DPE5

200604R1_2



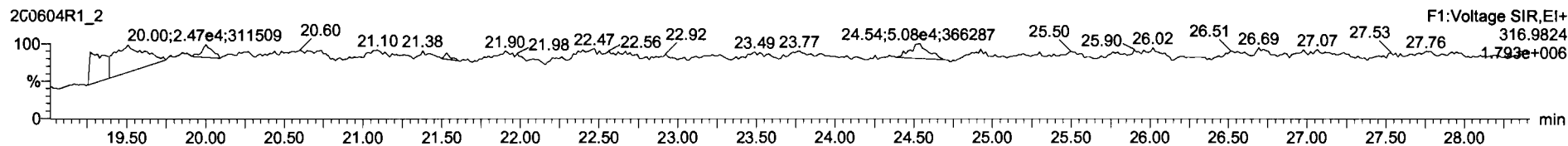
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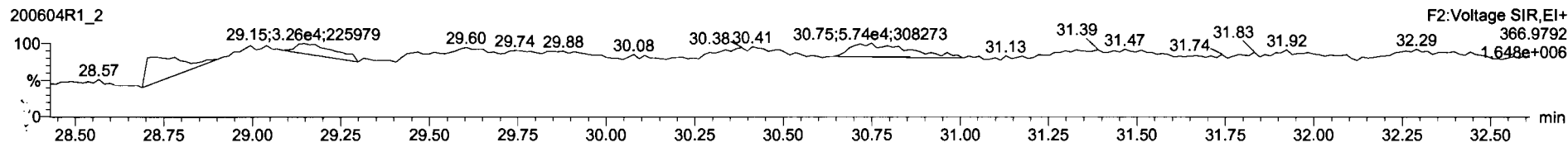
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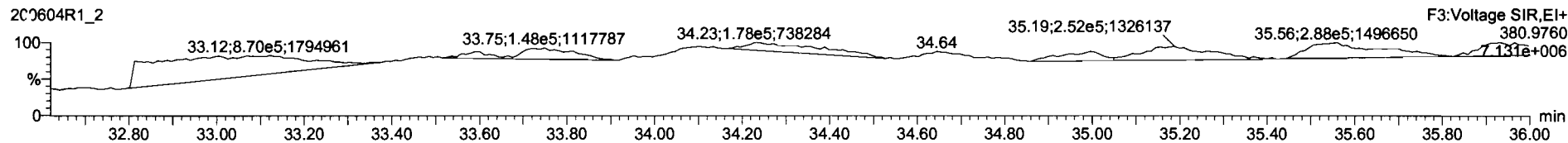
PFK1



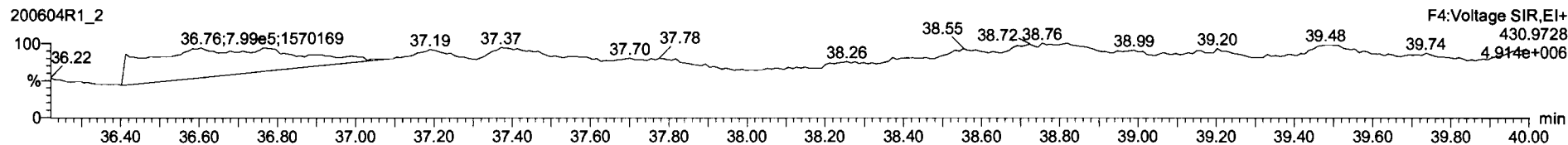
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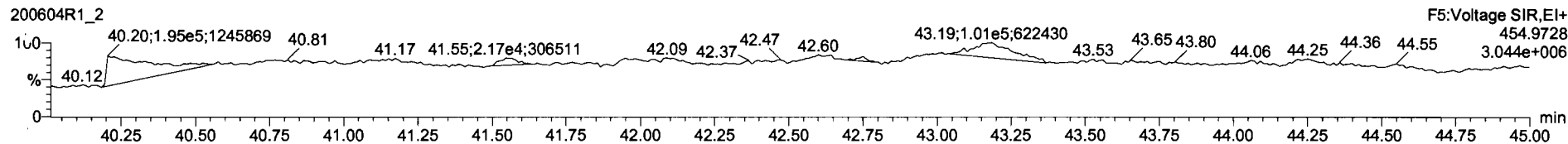
PFK3



PFK4



PFK5



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Printed: Wednesday, July 08, 2020 10:39:11 AM Pacific Daylight Time

GRB 07/08/2020

CT 07/08/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1_15, Date: 04-Jun-2020, Time: 19:04:30, ID: 2000997-01 PDI-061SC-A-03-04-200428 14.97, Description: PDI-061SC-A-03-04-200428

#	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	0.888	10.002	26.531		1.001				0.0600	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.002	31.488		1.001				0.0723	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.002	34.846		1.000				0.0893	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.002	34.943		1.000				0.0910	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.002	35.231		1.000				0.104	
6	6 1,2,3,4,6,7,8-HpCDD	1.10e3	1.06	NO	0.864	10.002	38.757	38.77	1.000	1.000	0.85284		0.202	0.853
7	7 OCDD	7.23e3	0.89	NO	0.914	10.002	41.738	41.75	1.000	1.000	6.5086		0.203	6.51
8	8 2,3,7,8-TCDF			NO	0.751	10.002	25.627		1.001				0.0334	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.002	30.205		1.001				0.0357	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.002	31.192		1.001				0.0317	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.002	33.952		1.000				0.0375	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.002	34.090		1.000				0.0334	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.002	34.701		1.001				0.0371	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.002	35.582		1.000				0.0582	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.002	37.376		1.001				0.0460	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.002	39.288		1.000				0.0476	
17	17 OCDF			NO	0.806	10.002	41.929		1.000				0.0932	
18	18 13C-2,3,7,8-TCDD	7.96e5	0.75	NO	1.16	10.002	26.522	26.50	1.026	1.026	186.27	93.2	0.187	
19	19 13C-1,2,3,7,8-PeCDD	5.43e5	0.63	NO	0.849	10.002	31.711	31.47	1.227	1.218	172.94	86.5	0.414	
20	20 13C-1,2,3,4,7,8-HxCDD	3.71e5	1.29	NO	0.779	10.002	34.841	34.84	1.014	1.014	171.97	86.0	0.474	
21	21 13C-1,2,3,6,7,8-HxCDD	4.61e5	1.29	NO	1.02	10.002	34.955	34.94	1.017	1.017	163.73	81.9	0.363	
22	22 13C-1,2,3,7,8,9-HxCDD	4.21e5	1.29	NO	0.903	10.002	35.226	35.22	1.025	1.025	168.30	84.2	0.409	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.98e5	1.06	NO	0.689	10.002	38.751	38.74	1.128	1.128	155.92	78.0	0.530	
24	24 13C-OCDD	4.86e5	0.91	NO	0.652	10.002	41.775	41.74	1.216	1.215	269.17	67.3	0.633	
25	25 13C-2,3,7,8-TCDF	9.93e5	0.78	NO	1.06	10.002	25.564	25.60	0.989	0.991	169.56	84.8	0.285	
26	26 13C-1,2,3,7,8-PeCDF	8.23e5	1.58	NO	0.838	10.002	30.093	30.18	1.165	1.168	177.55	88.8	0.494	
27	27 13C-2,3,4,7,8-PeCDF	8.09e5	1.60	NO	0.817	10.002	31.047	31.16	1.202	1.206	179.03	89.5	0.507	
28	28 13C-1,2,3,4,7,8-HxCDF	4.79e5	0.50	NO	1.01	10.002	33.972	33.95	0.989	0.988	171.46	85.7	0.580	
29	29 13C-1,2,3,6,7,8-HxCDF	5.71e5	0.51	NO	1.17	10.002	34.096	34.08	0.992	0.992	176.72	88.4	0.501	
30	30 13C-2,3,4,6,7,8-HxCDF	4.94e5	0.51	NO	1.02	10.002	34.670	34.67	1.009	1.009	174.37	87.2	0.572	

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-15B.qld

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Printed: Wednesday, July 08, 2020 10:39:11 AM Pacific Daylight Time

Name: 200604R1_15, Date: 04-Jun-2020, Time: 19:04:30, ID: 2000997-01 PDI-061SC-A-03-04-200428 14.97, Description: PDI-061SC-A-03-04-200428

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	3.99e5	0.51	NO	0.860	10.002	35.570	35.58	1.035	1.036	167.45	83.7	0.680	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.53e5	0.41	NO	0.774	10.002	37.319	37.34	1.086	1.087	164.46	82.2	0.542	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.38e5	0.41	NO	0.521	10.002	39.349	39.29	1.145	1.143	164.56	82.3	0.805	
34	34 13C-OCDF	5.75e5	0.84	NO	0.746	10.002	41.946	41.93	1.221	1.220	278.35	69.6	0.681	
35	35 37Cl-2,3,7,8-TCDD	3.07e5			1.04	10.002	26.553	26.53	1.028	1.027	80.152	100	0.0597	
36	36 13C-1,2,3,4-TCDD	7.39e5	0.79	NO	1.00	10.002	25.890	25.84	1.000	1.000	199.96	100	0.216	
37	37 13C-1,2,3,4-TCDF	1.11e6	0.78	NO	1.00	10.002	24.360	24.16	1.000	1.000	199.96	100	0.302	
38	38 13C-1,2,3,4,6,9-HxCDF	5.54e5	0.51	NO	1.00	10.002	34.420	34.36	1.000	1.000	199.96	100	0.585	
39	39 Total Tetra-Dioxins				0.888	10.002	24.620		0.000		0.22896		0.0600	0.229
40	40 Total Penta-Dioxins				0.908	10.002	29.960		0.000		0.00000		0.0288	0.0970
41	41 Total Hexa-Dioxins				0.892	10.002	33.635		0.000		1.0458		0.0988	1.05
42	42 Total Hepta-Dioxins				0.864	10.002	37.640		0.000		2.1981		0.202	2.20
43	43 Total Tetra-Furans				0.751	10.002	23.610		0.000		0.26580		0.0334	0.266
44	44 1st Func. Penta-Furans				0.893	10.002	27.580		0.000				0.00894	
45	45 Total Penta-Furans				0.893	10.002	29.275		0.000				0.0135	
46	46 Total Hexa-Furans				0.934	10.002	33.555		0.000				0.0212	
47	47 Total Hepta-Furans				0.873	10.002	37.835		0.000				0.0302	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-15B.qld

Last Altered: Wednesday, July 08, 2020 10:14:03 AM Pacific Daylight Time

Printed: Wednesday, July 08, 2020 10:39:11 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1_15, Date: 04-Jun-2020, Time: 19:04:30, ID: 2000997-01 PDI-061SC-A-03-04-200428 14.97, Description: PDI-061SC-A-03-04-200428

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.33	5.985e3	7.096e3	3.286e2	4.813e2	0.68	NO	8.099e2	0.22896	0.22900	0.0600

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.74	2.150e3	4.769e3	9.201e1	2.458e2	0.37	YES	0.000e0	0.00000	0.097000	0.0723

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.33	1.548e4	1.100e4	7.543e2	5.895e2	1.28	NO	1.344e3	0.72079	0.72100	0.0988
2	Total Hexa-Dioxins	34.15	6.064e3	3.970e3	3.480e2	2.580e2	1.35	NO	6.060e2	0.32502	0.32500	0.0988

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.75	1.338e4	1.507e4	9.374e2	7.931e2	1.18	NO	1.731e3	1.3452	1.3450	0.202
2	1,2,3,4,6,7,8-HpCDD	38.77	9.234e3	7.599e3	5.643e2	5.328e2	1.06	NO	1.097e3	0.85284	0.85300	0.202

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.51	5.323e3	7.246e3	4.148e2	5.767e2	0.72	NO	9.916e2	0.26580	0.26600	0.0334

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\200604R1\200604R1-15B.qld

Last Altered: Wednesday, July 08, 2020 10:14:03 AM Pacific Daylight Time

Printed: Wednesday, July 08, 2020 10:39:11 AM Pacific Daylight Time

Name: 200604R1_15, Date: 04-Jun-2020, Time: 19:04:30, ID: 2000997-01 PDI-061SC-A-03-04-200428 14.97, Description: PDI-061SC-A-03-04-200428

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

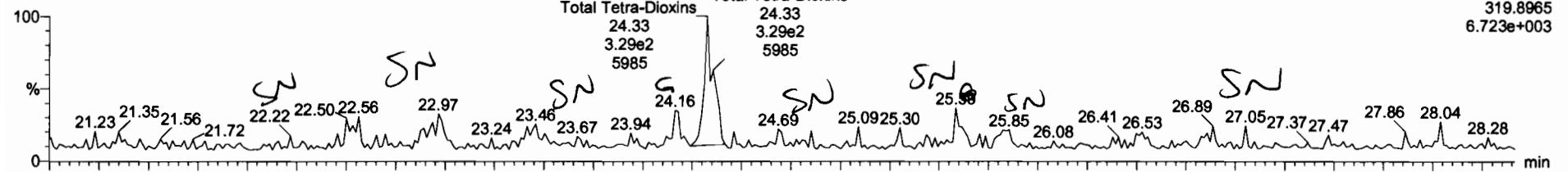
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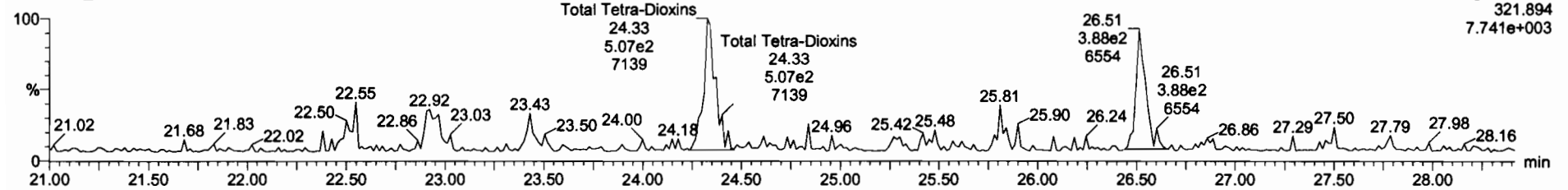
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2,3,7,8-TCDD

200604R1_15

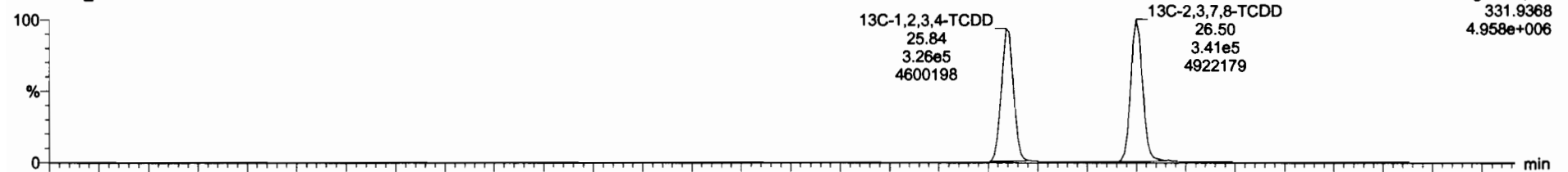


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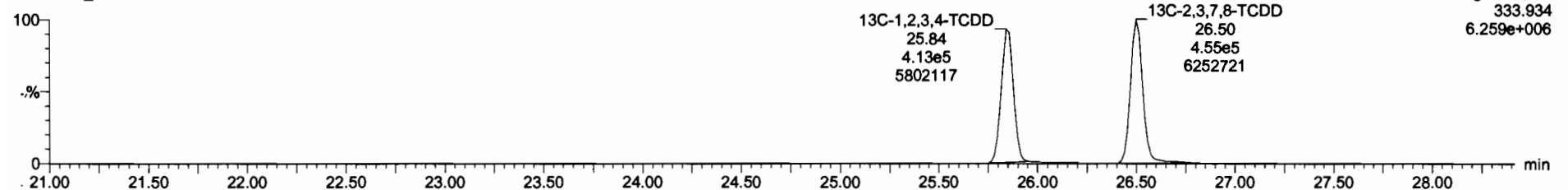


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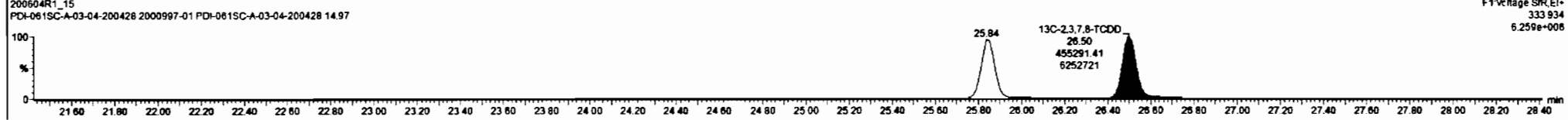
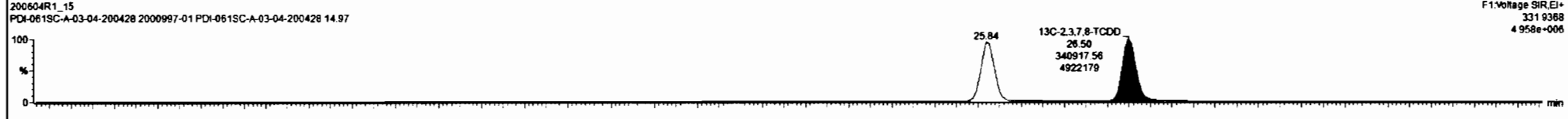
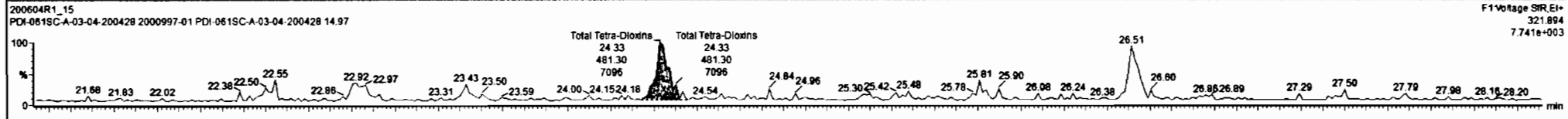
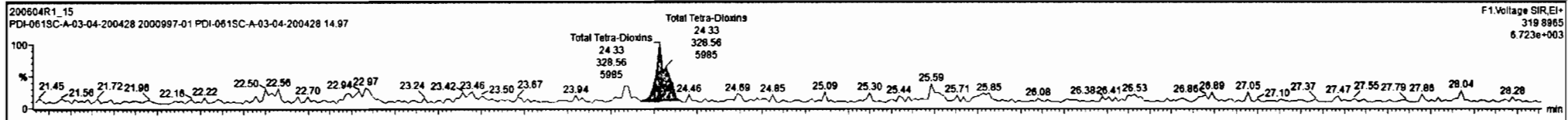
200604R1_15



200604R1_15



Compound	Concentration	Area	Height	Width	Retention Time	Integration	Integration	Integration	Integration	Integration
13C-1,2,3,4,6,8-HxCDF	5.54e5	0.51	NO	1.0000	10.002	34.38	1.000	200	100	0.585
Total Penta-Dioxins			0.9081	10.002			0.000		0.0298	0.154
Total Hexa-Dioxins			0.8823	10.002			1.05		0.0988	1.05
Total Hepta-Dioxins			0.8638	10.002			2.20		0.202	2.20
Total Tetra-Furans			0.7510	10.002			0.286		0.0334	0.286
1st Func. Penta-Furans			0.8825	10.002					0.00894	
Total Penta-Furans			0.8825	10.002					0.0135	
Total Hexa-Furans			0.9341	10.002			0.0448		0.0212	0.0560
Total Hepta-Furans			0.8734	10.002					0.0302	
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PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										



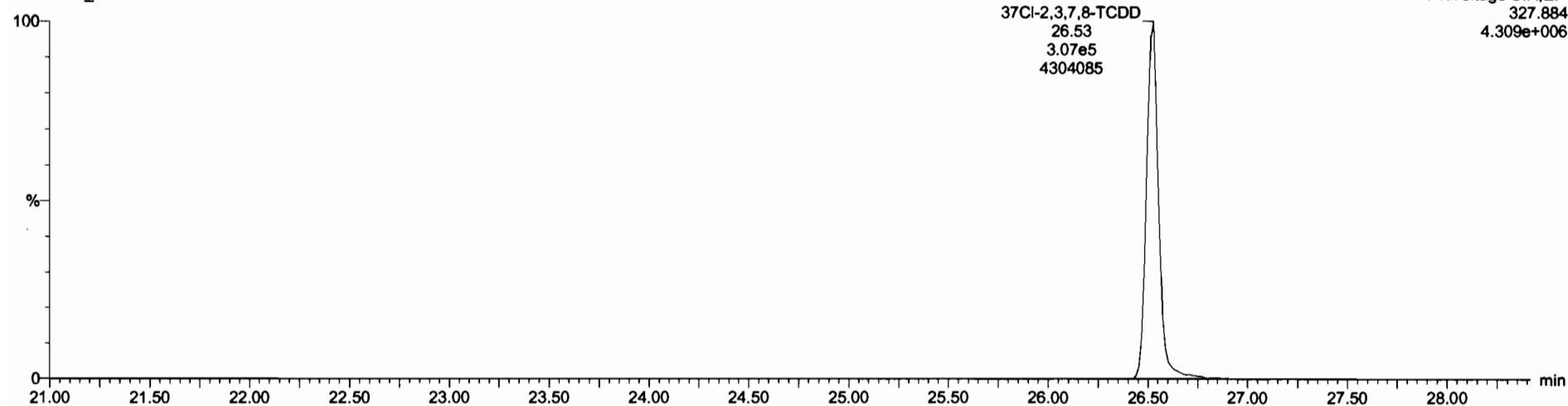
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Name: 200604R1_15, Date: 04-Jun-2020, Time: 19:04:30, ID: 2000997-01 PDI-061SC-A-03-04-200428 14.97, Description: PDI-061SC-A-03-04-200428

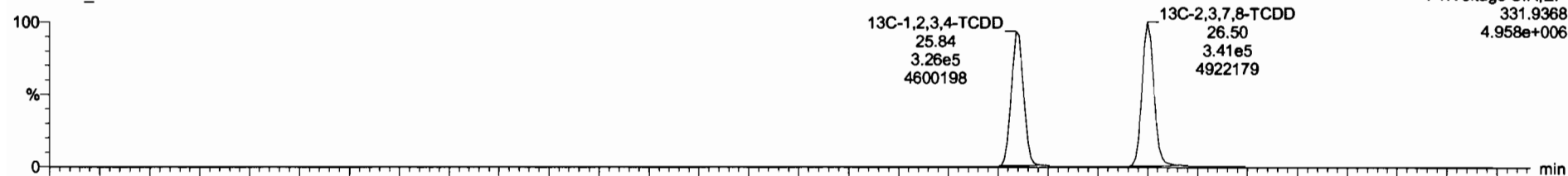
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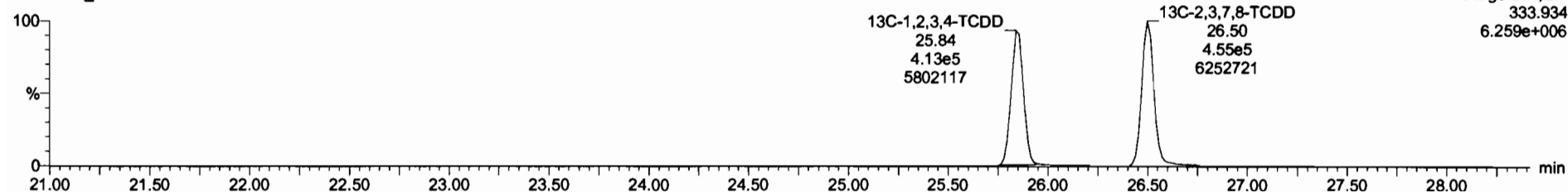


13C-1,2,3,4-TCDD

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200604R1_15



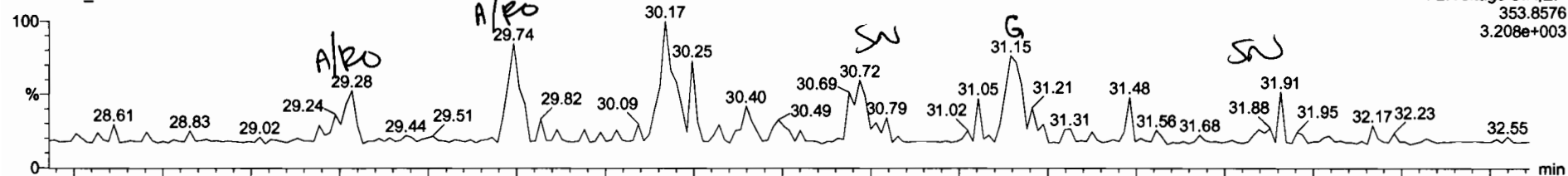
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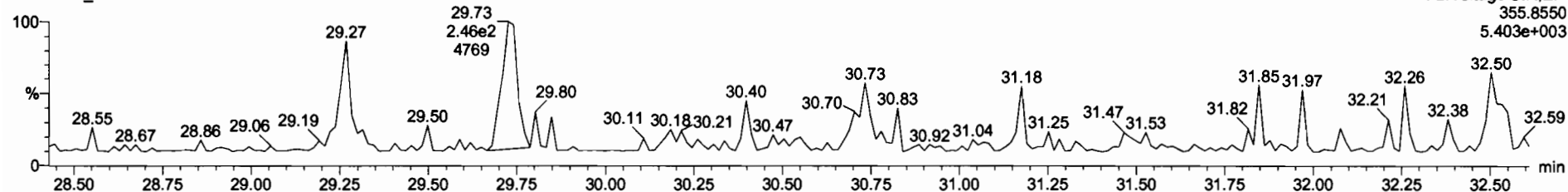
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1,2,3,7,8-PeCDD

200604R1_15

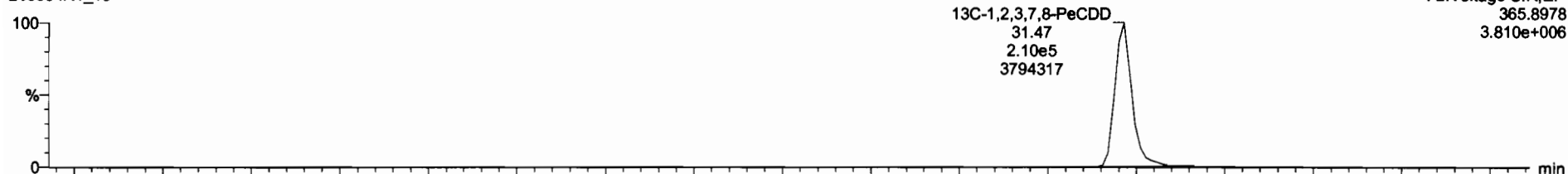


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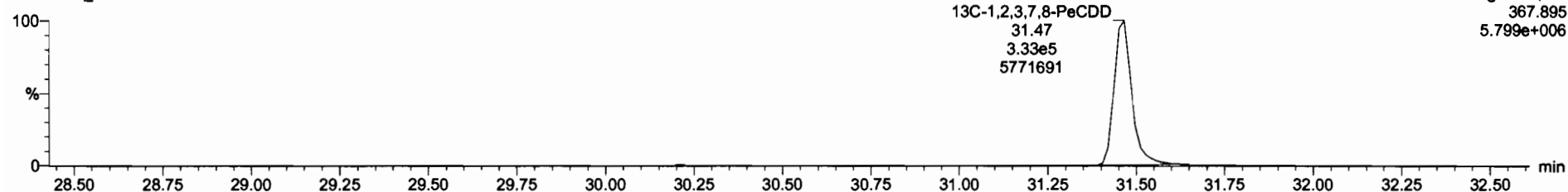


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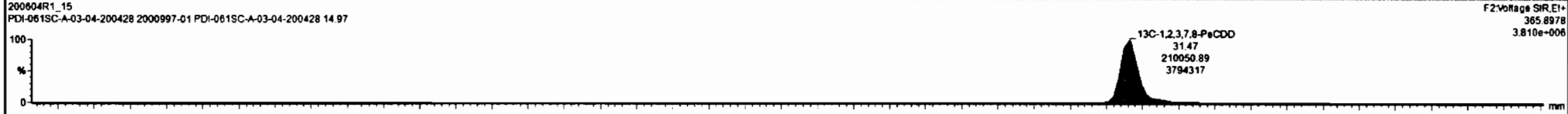
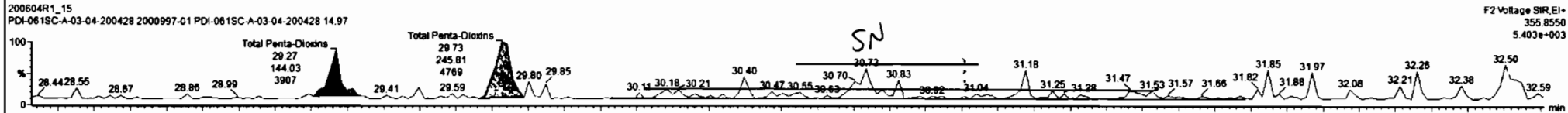
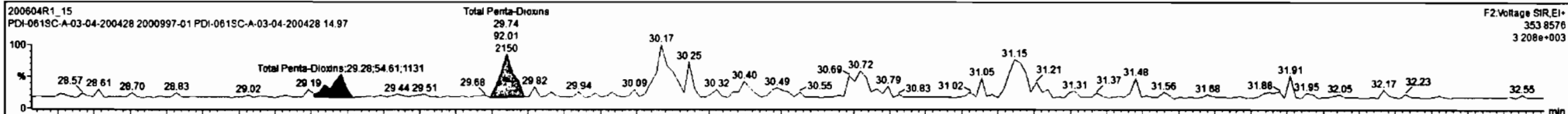
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200604R1_15



13C-1,2,3,4,6,8-HxCDF	5.54e5	0.51	NO	1.0000	10.002	34.38	1.000	200	100	0.585
Total Tetra-Dioxins	0.8883	10.002						0.229		0.0600
Total Hexa-Dioxins	0.8923	10.002						1.05		0.0968
Total Hepta-Dioxins	0.8630	10.002						2.20		0.202
Total Tetra-Furans	0.7510	10.002						0.206		0.0334
1st Func. Penta-Furans	0.8625	10.002								0.09894
Total Penta-Furans	0.8625	10.002								0.0135
Total Hexa-Furans	0.9341	10.002						0.0448		0.0560
Total Hepta-Furans	0.8734	10.002								0.0302
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PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										



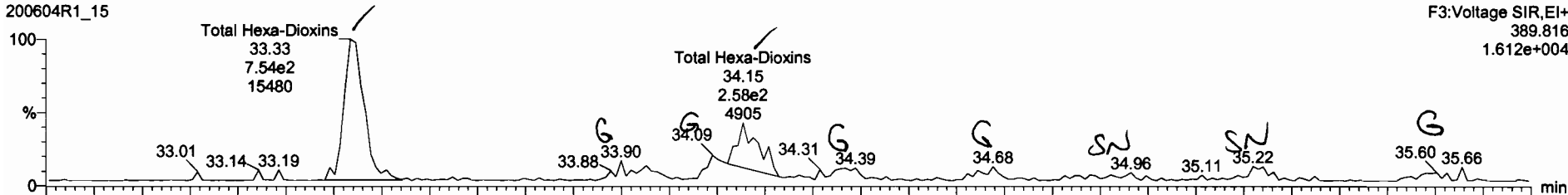
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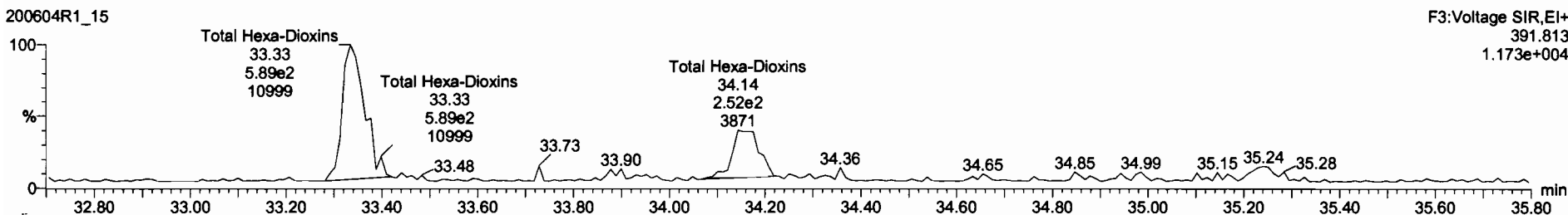
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1,2,3,4,7,8-HxCDD

200604R1_15



200604R1_15

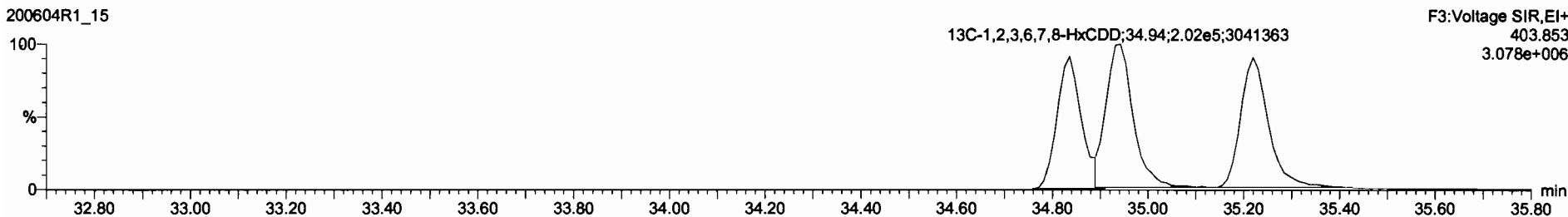


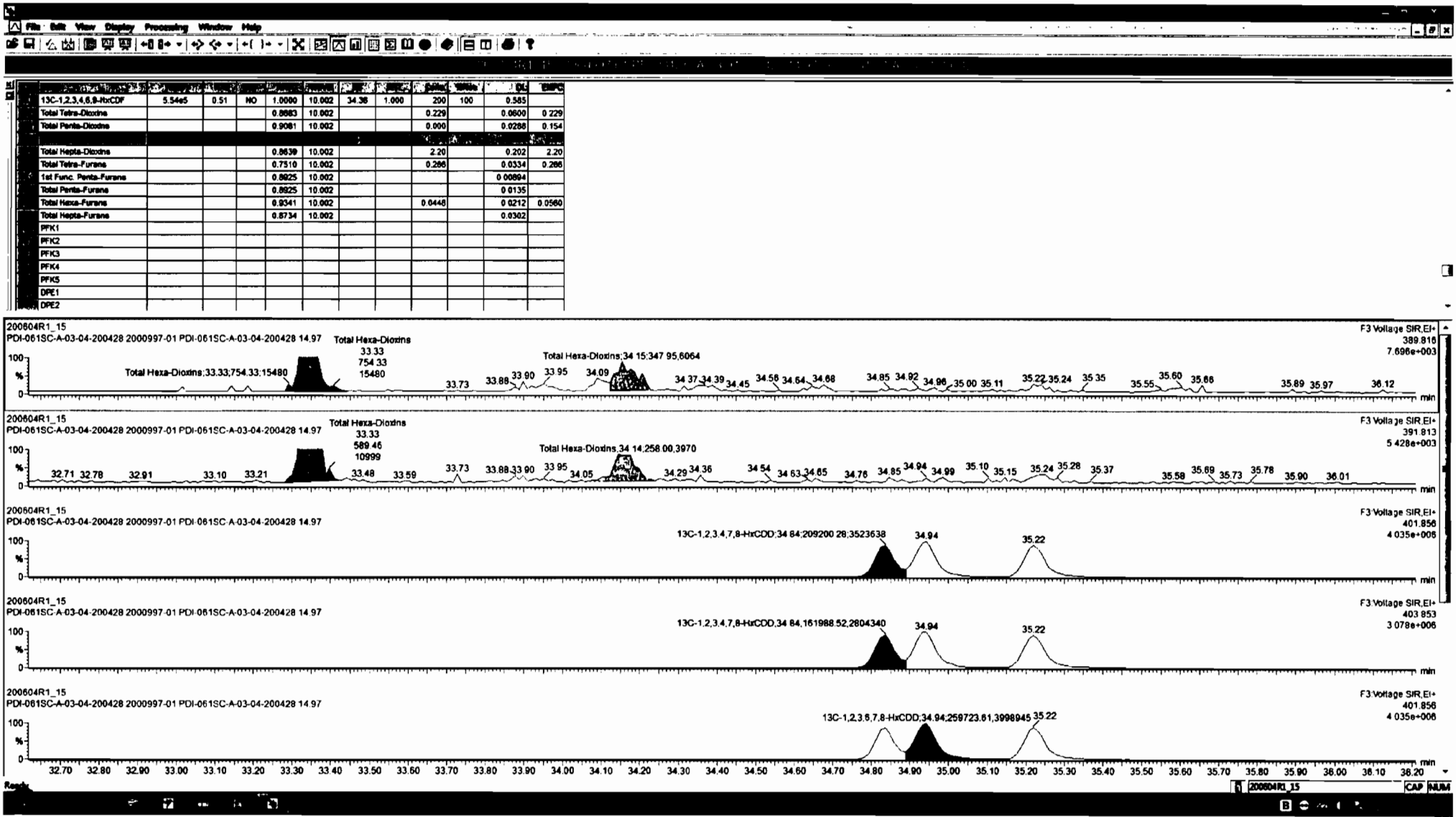
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200604R1_15



200604R1_15





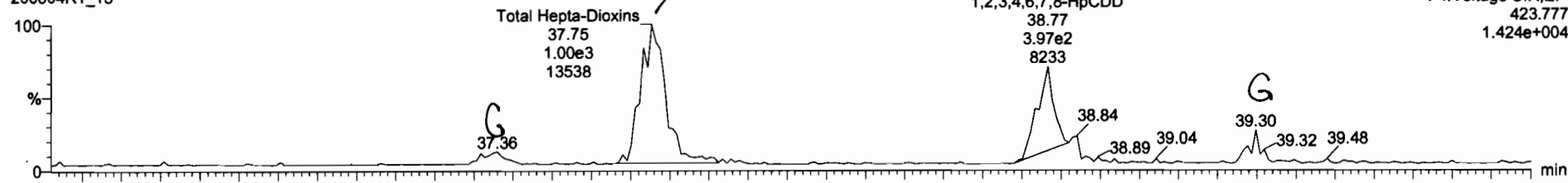
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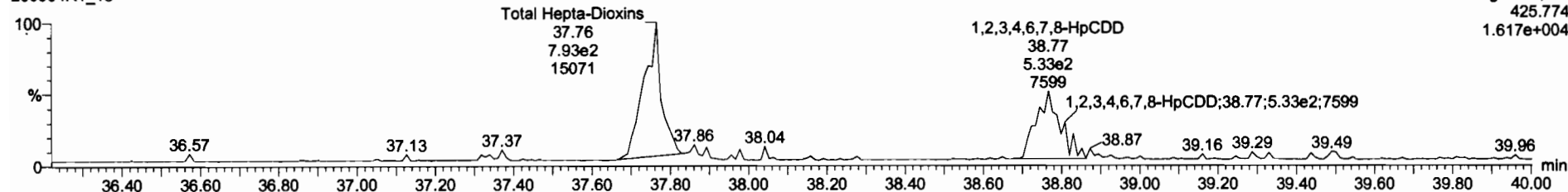
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1,2,3,4,6,7,8-HpCDD

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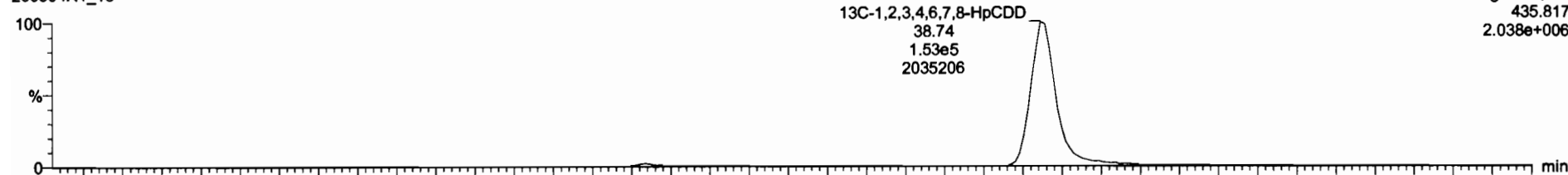


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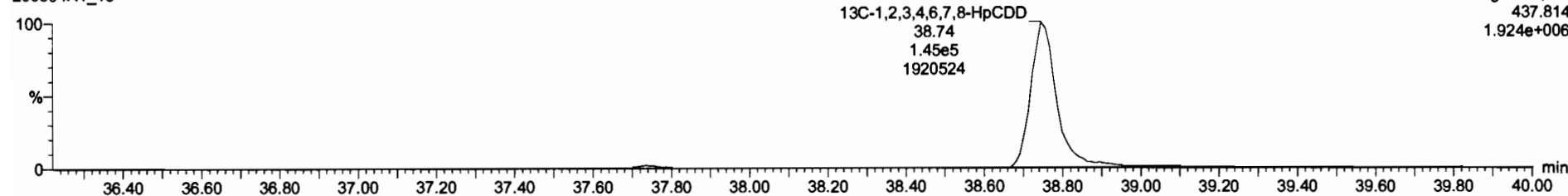


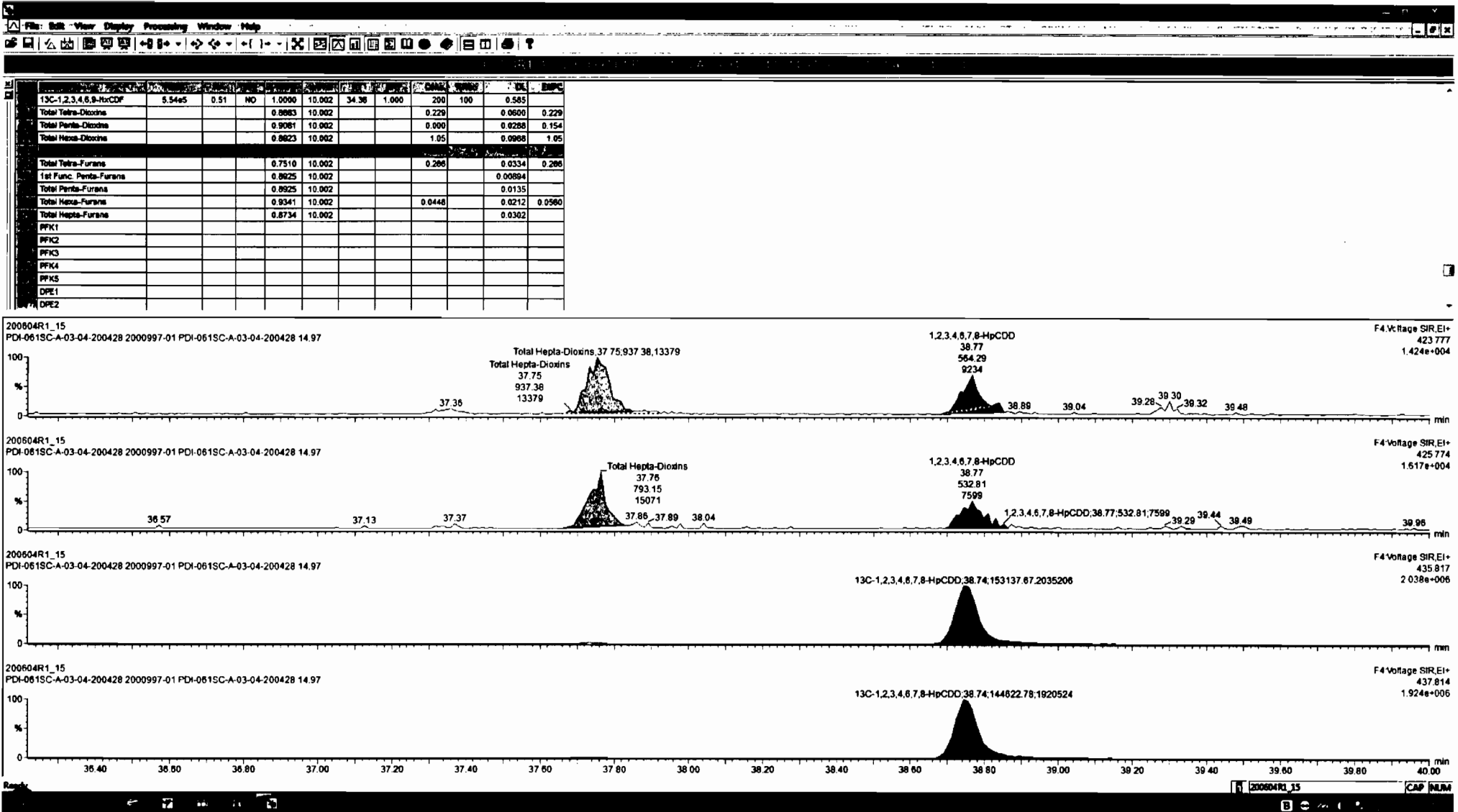
13C-1,2,3,4,6,7,8-HpCDD

200604R1_15



200604R1_15



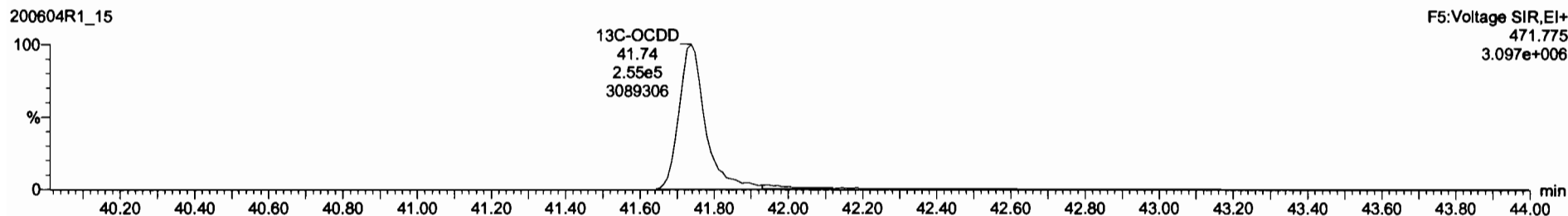
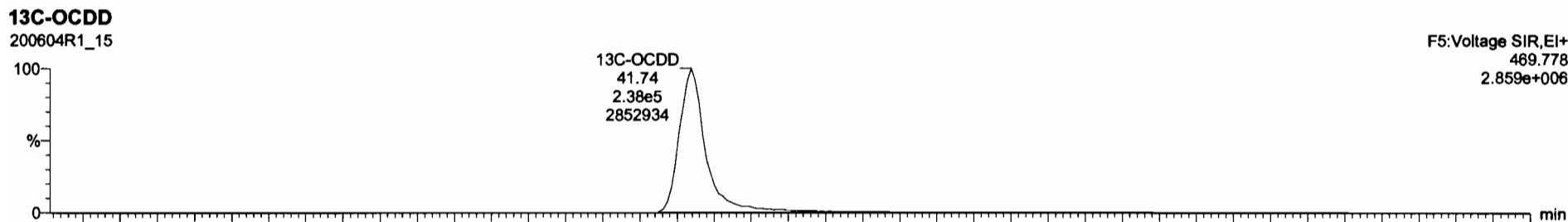
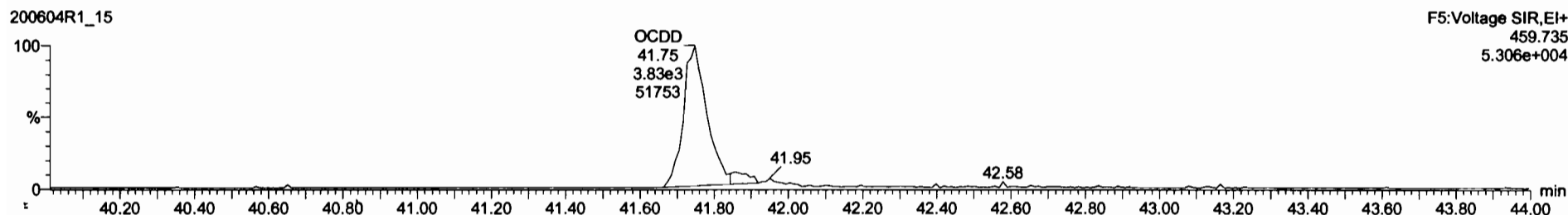
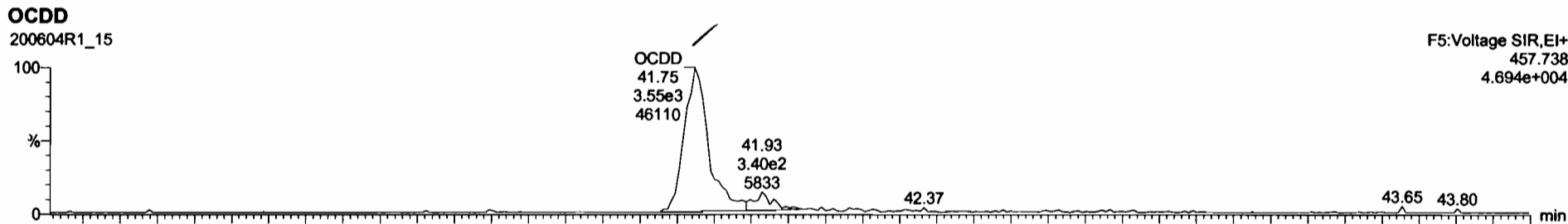


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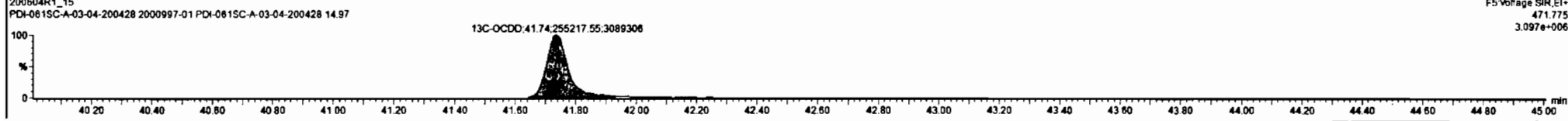
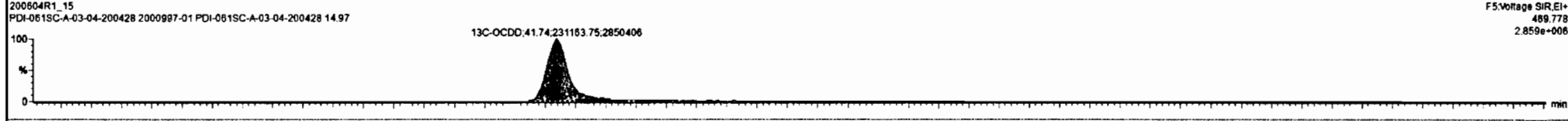
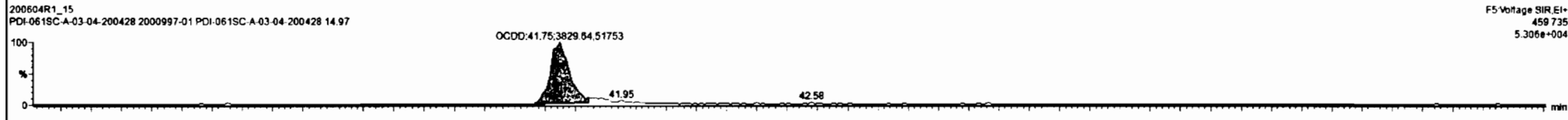
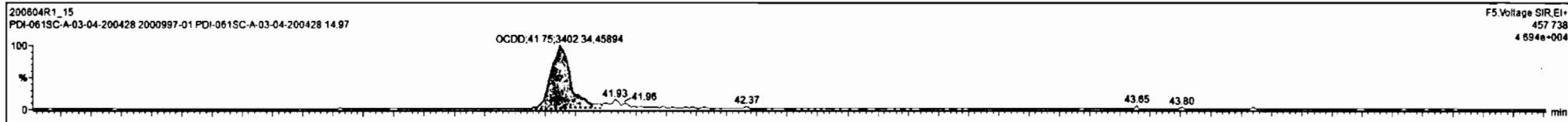
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Name: 200604R1_15, Date: 04-Jun-2020, Time: 19:04:30, ID: 2000997-01 PDI-061SC-A-03-04-200428 14.97, Description: PDI-061SC-A-03-04-200428



2,3,7,8-TCDF			NO	0.7510	10.002					0.0334	
1,2,3,7,8-PeCDF			NO	0.8925	10.002					0.0357	
2,3,4,7,8-PeCDF			NO	0.9348	10.002					0.0317	
1,2,3,4,7,8-HxCDF			NO	0.8845	10.002					0.0375	
1,2,3,6,7,8-HxCDF			NO	0.8882	10.002					0.0334	
2,3,4,6,7,8-HxCDF			NO	0.9341	10.002					0.0371	
1,2,3,7,8,9-HxCDF	7.78e1	1.17	NO	0.8787	10.002	35.60	1.001	0.0448		0.0319	0.0450
1,2,3,4,6,7,8-HpCDF			NO	0.8734	10.002					0.0460	
1,2,3,4,7,8,9-HpCDF			NO	1.0128	10.002					0.0476	
OCDF			NO	0.8095	10.002					0.0932	
13C-2,3,7,8-TCDD	7.98e5	0.75	NO	1.1583	10.002	28.50	1.026	188	93.2	0.187	
13C-1,2,3,7,8-PeCDD	5.43e5	0.63	NO	0.8490	10.002	31.47	1.218	173	86.5	0.414	
13C-1,2,3,4,7,8-HxCDD	3.71e5	1.29	NO	0.7790	10.002	34.84	1.014	172	86.0	0.474	
13C-1,2,3,6,7,8-HxCDD	4.61e5	1.29	NO	1.0187	10.002	34.94	1.017	184	81.9	0.363	
13C-1,2,3,7,8,9-HxCDD	4.21e5	1.29	NO	0.9027	10.002	35.22	1.025	188	84.2	0.409	
13C-1,2,3,4,6,7,8-HpCDD	2.98e5	1.08	NO	0.8882	10.002	38.74	1.128	158	76.0	0.530	



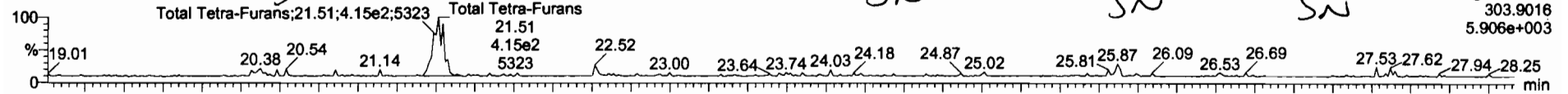
Dataset: Untitled

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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

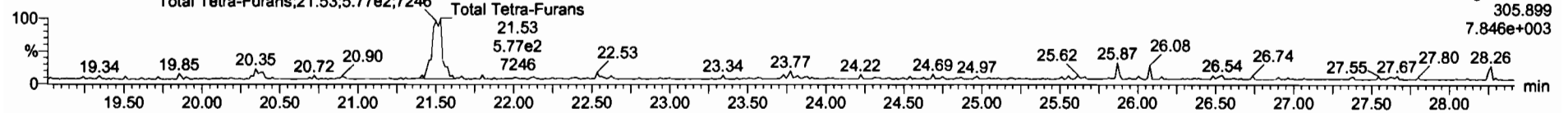
Name: 200604R1_15, Date: 04-Jun-2020, Time: 19:04:30, ID: 2000997-01 PDI-061SC-A-03-04-200428 14.97, Description: PDI-061SC-A-03-04-200428

2,3,7,8-TCDF

200604R1_15

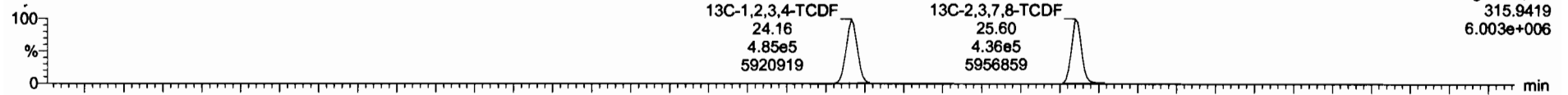


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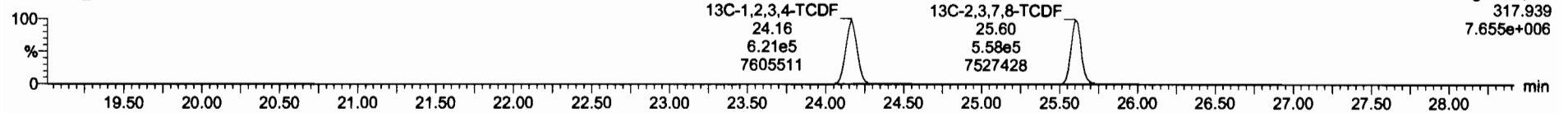


13C-2,3,7,8-TCDF

200604R1_15

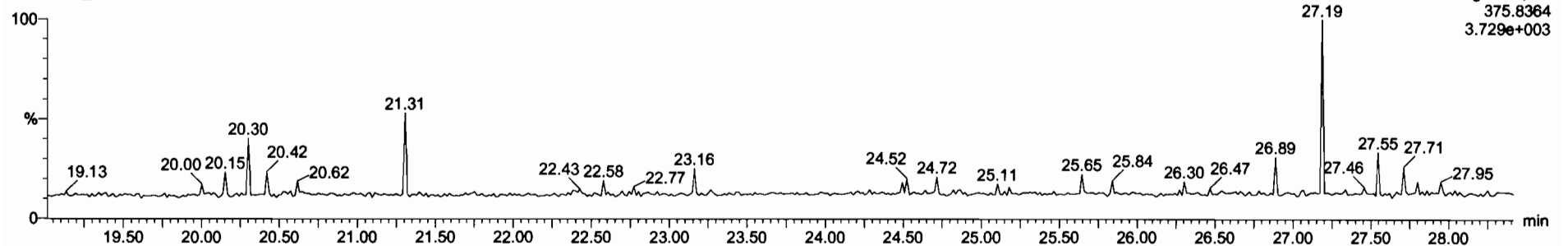


200604R1_15



DPE1

200604R1_15



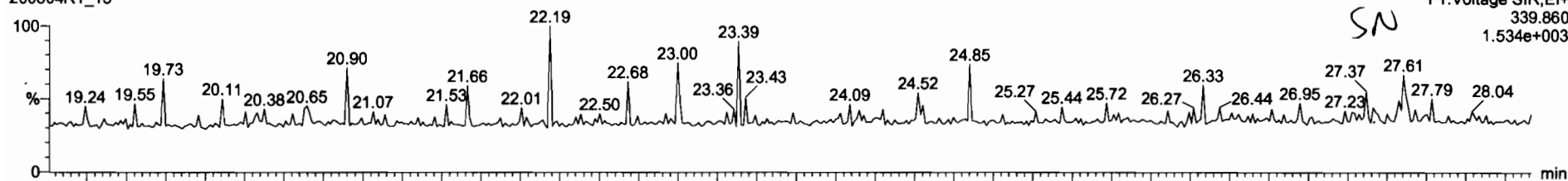
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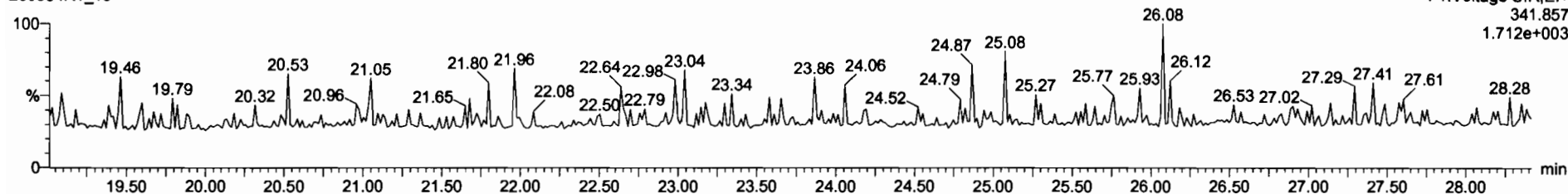
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1st Func. Penta-Furans

200604R1_15

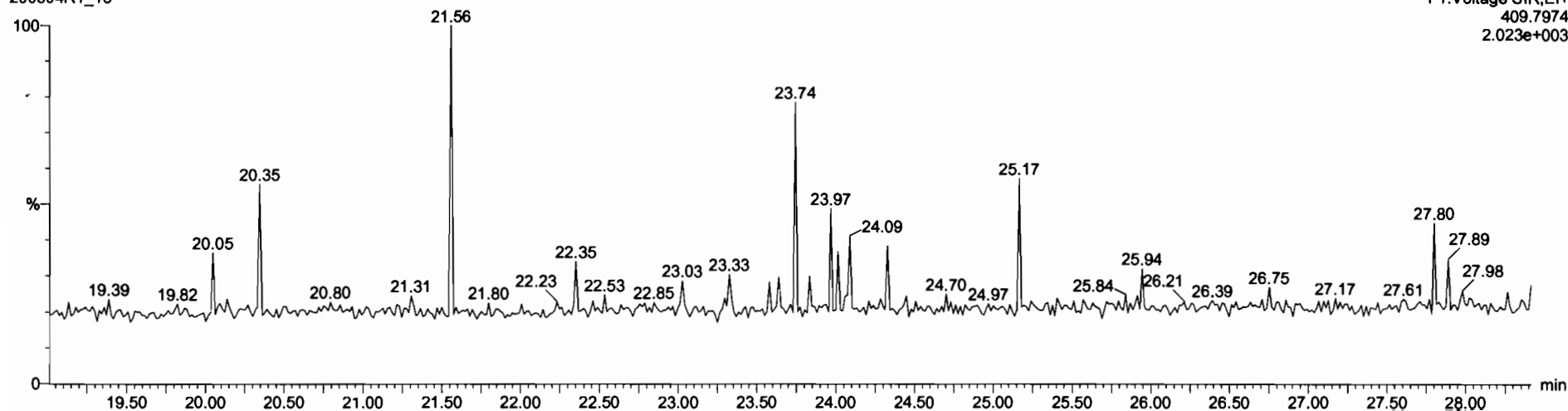


200604R1_15



DPE6

200604R1_15



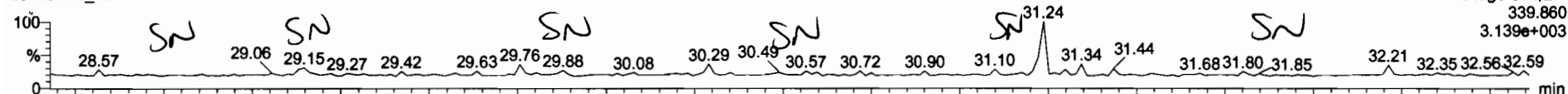
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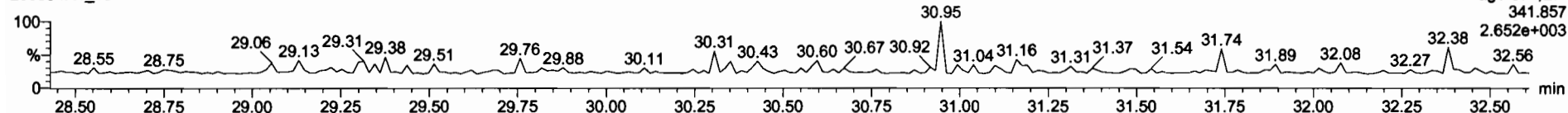
Name: 200604R1_15, Date: 04-Jun-2020, Time: 19:04:30, ID: 2000997-01 PDI-061SC-A-03-04-200428 14.97, Description: PDI-061SC-A-03-04-200428

1,2,3,7,8-PeCDF

200604R1_15

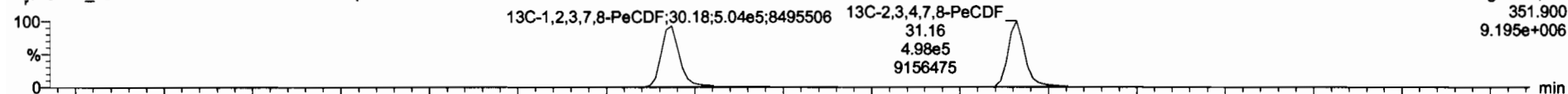


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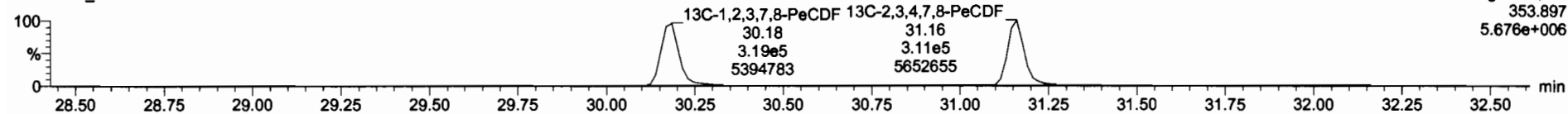


13C-1,2,3,7,8-PeCDF

200604R1_15

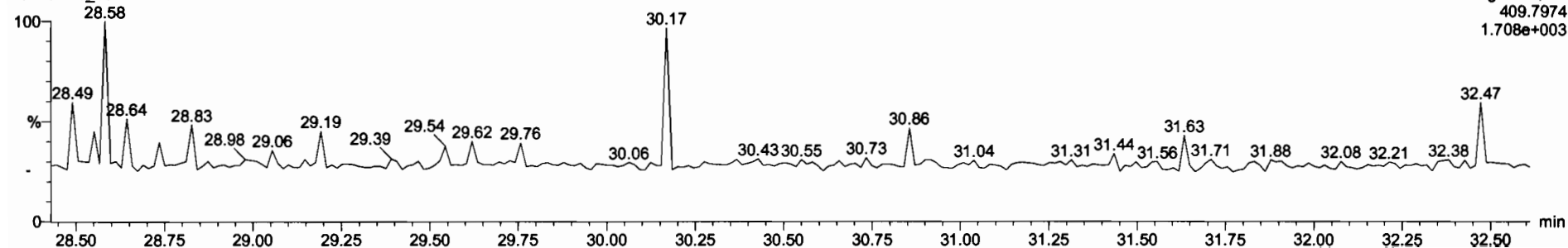


200604R1_15



DPE2

200604R1_15

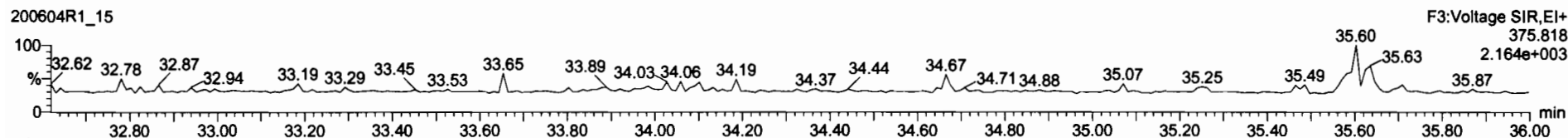
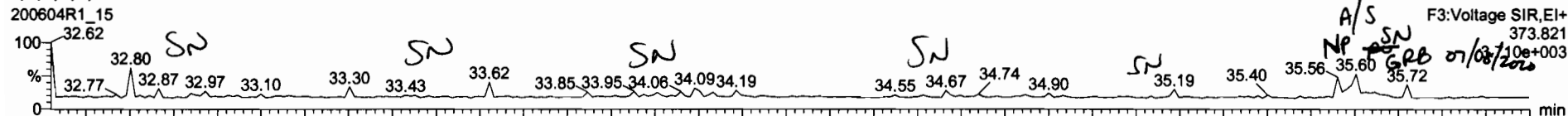


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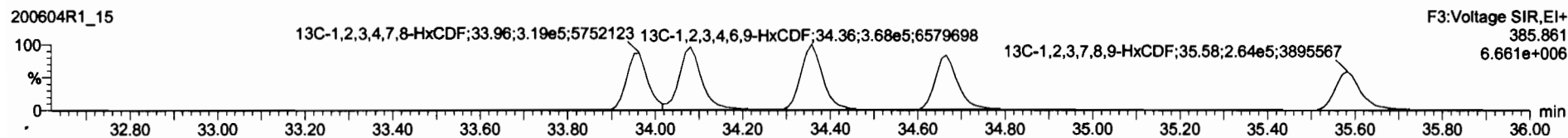
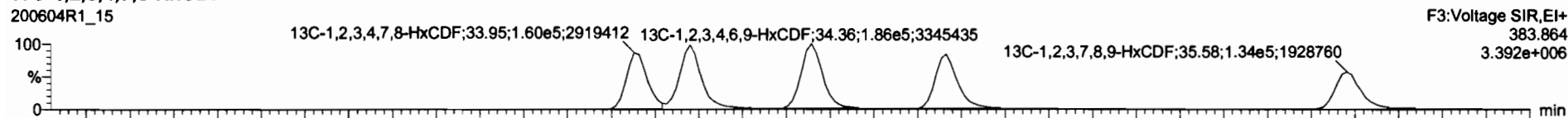
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Name: 200604R1_15, Date: 04-Jun-2020, Time: 19:04:30, ID: 2000997-01 PDI-061SC-A-03-04-200428 14.97, Description: PDI-061SC-A-03-04-200428

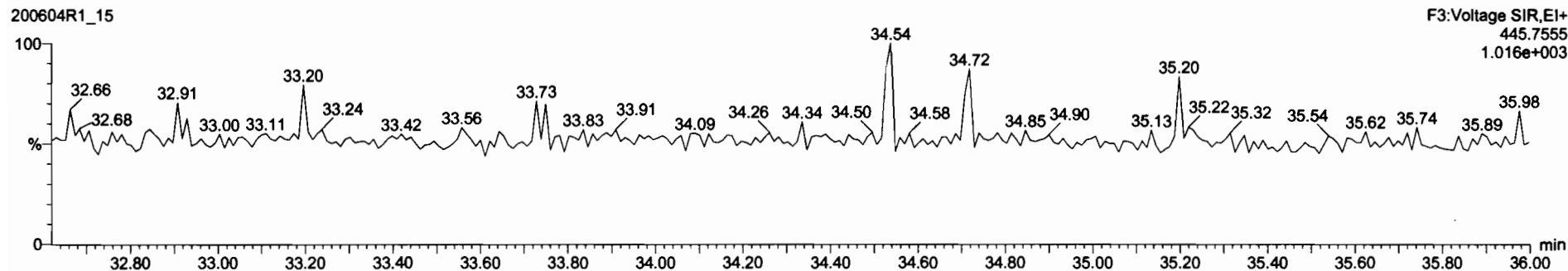
1,2,3,4,7,8-HxCDF



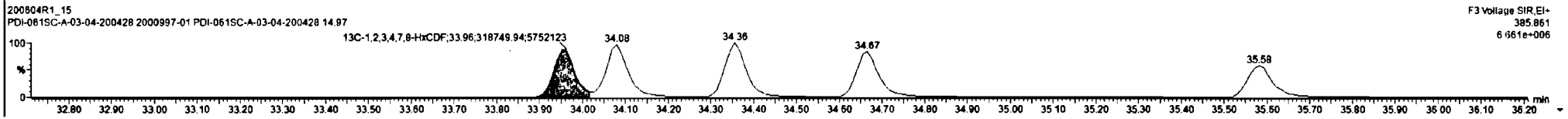
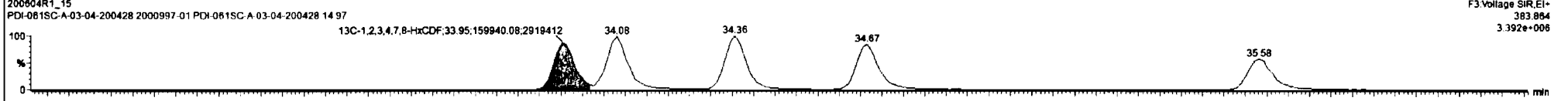
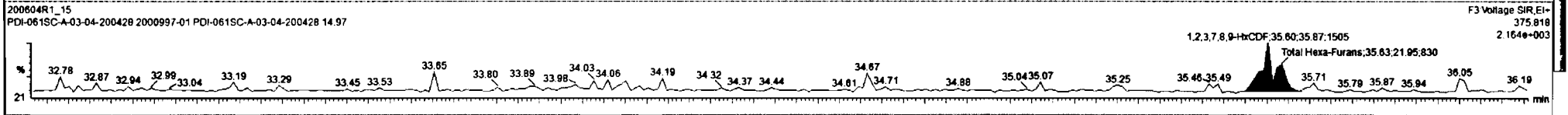
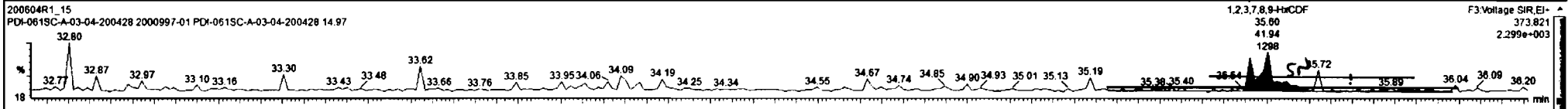
13C-1,2,3,4,7,8-HxCDF



DPE3



Total Penta-Dioxins	0.8061	10.002	0.000	0.0288	0.154
Total Hexa-Dioxins	0.8823	10.002	1.05	0.0988	1.05
Total Hepta-Dioxins	0.8838	10.002	2.20	0.202	2.20
Total Tetra-Furans	0.7510	10.002	0.286	0.0334	0.266
1st Func. Penta-Furans	0.8825	10.002		0.00894	
Total Penta-Furans	0.8825	10.002		0.0135	
Total Hepta-Furans	0.8734	10.002		0.0302	
PFK1					
PFK2					
PFK3					
PFK4					
PFK5					
DPE1					
DPE2					
DPE3					
DPE4					
DPE5					
DPE6					



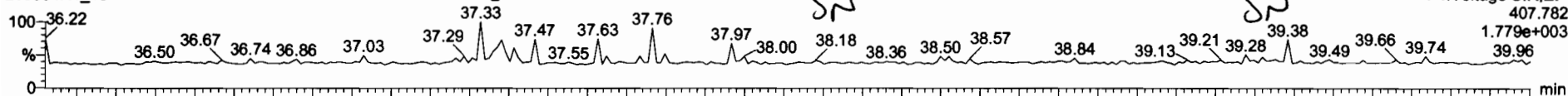
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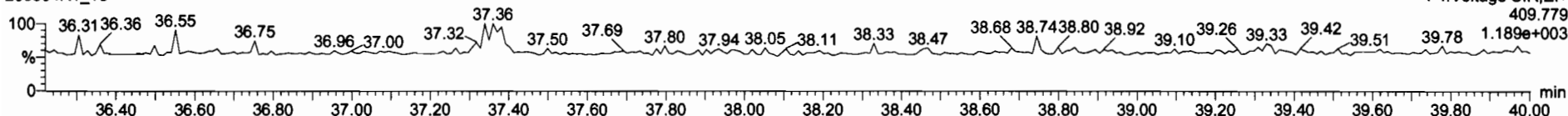
Name: 200604R1_15, Date: 04-Jun-2020, Time: 19:04:30, ID: 2000997-01 PDI-061SC-A-03-04-200428 14.97, Description: PDI-061SC-A-03-04-200428

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

200604R1_15



200604R1_15

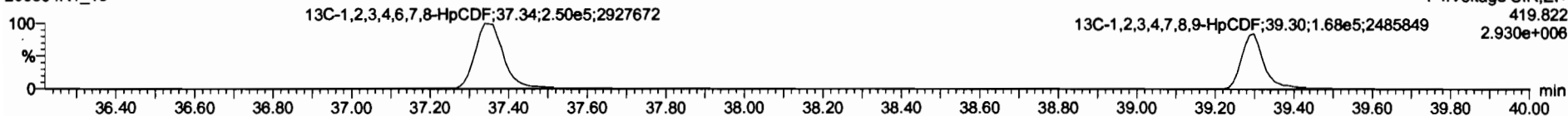


13C-1,2,3,4,6,7,8-HpCDF

200604R1_15

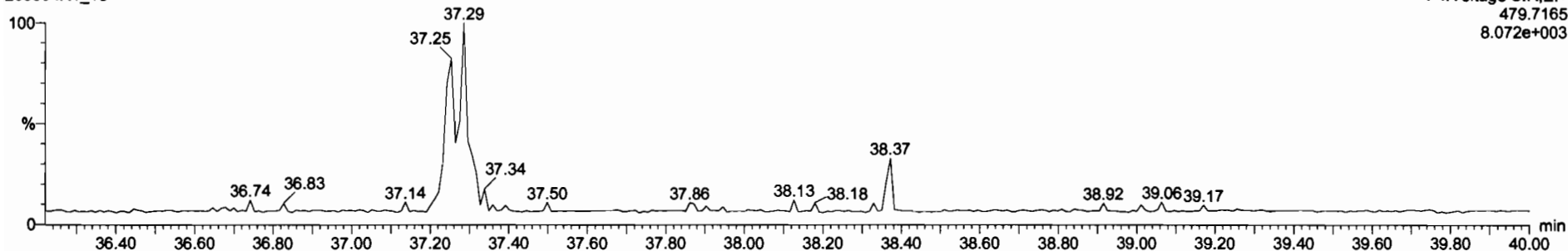


200604R1_15



DPE4

200604R1_15

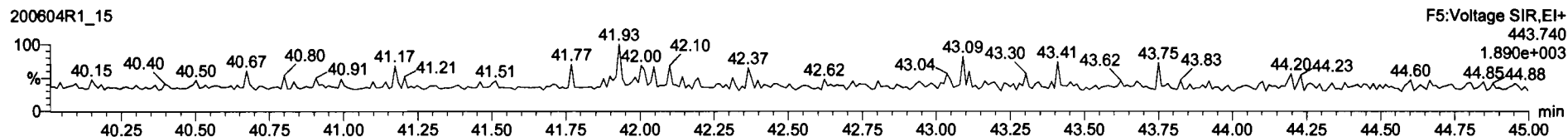
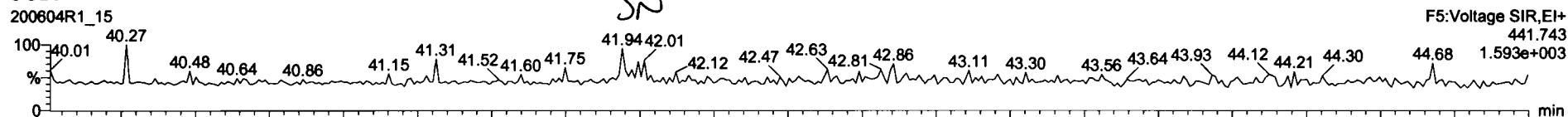


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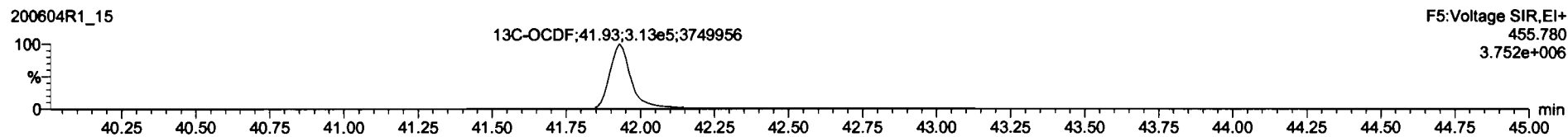
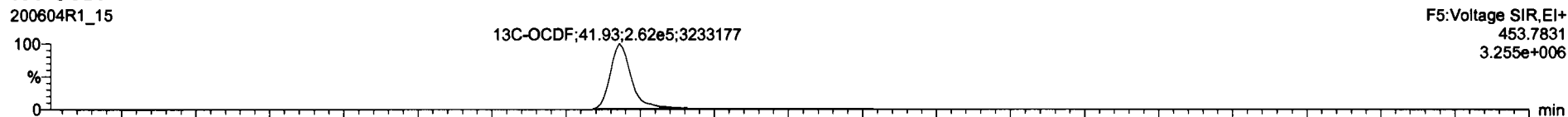
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Name: 200604R1_15, Date: 04-Jun-2020, Time: 19:04:30, ID: 2000997-01 PDI-061SC-A-03-04-200428 14.97, Description: PDI-061SC-A-03-04-200428

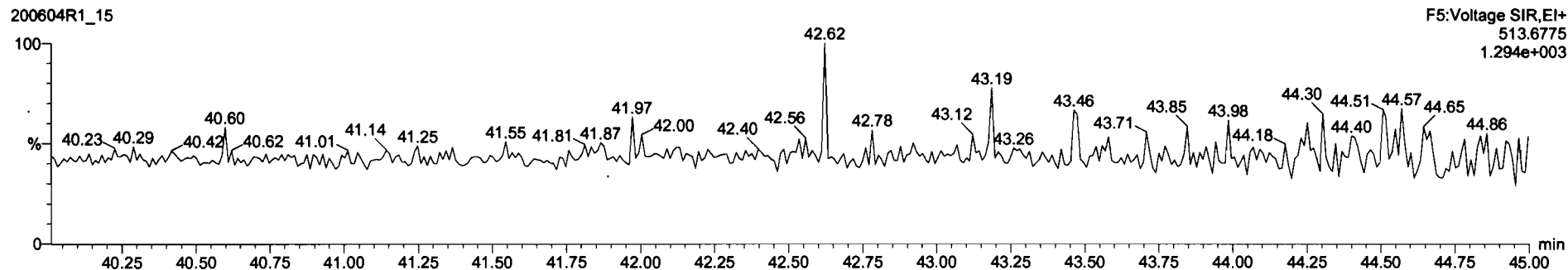
OCDF



13C-OCDF



DPE5

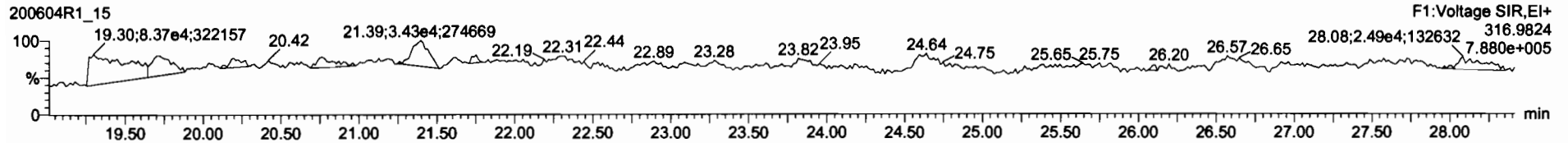


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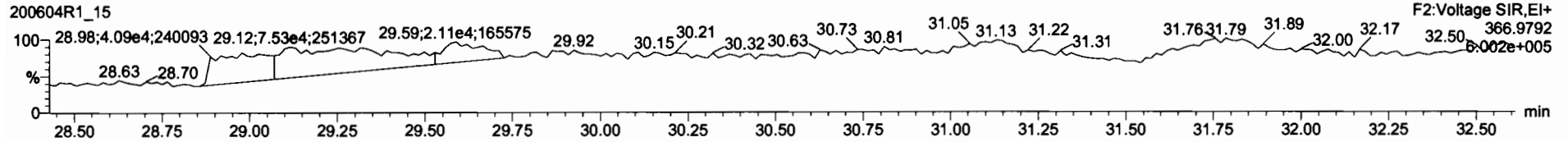
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Name: 200604R1_15, Date: 04-Jun-2020, Time: 19:04:30, ID: 2000997-01 PDI-061SC-A-03-04-200428 14.97, Description: PDI-061SC-A-03-04-200428

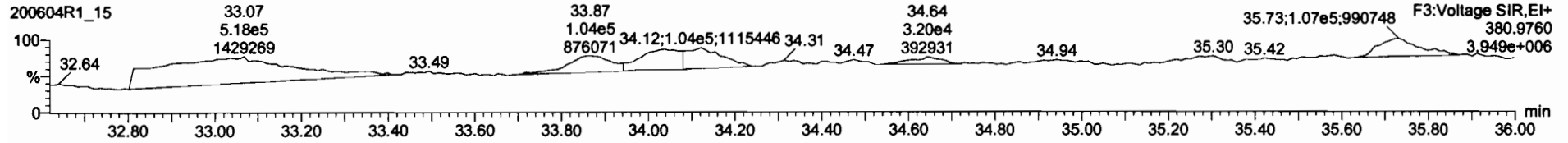
PFK1



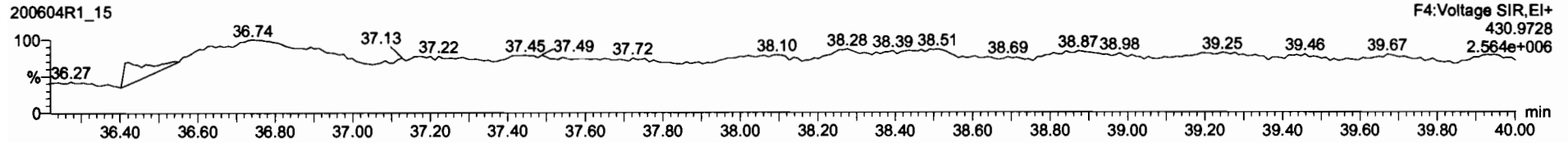
PFK2



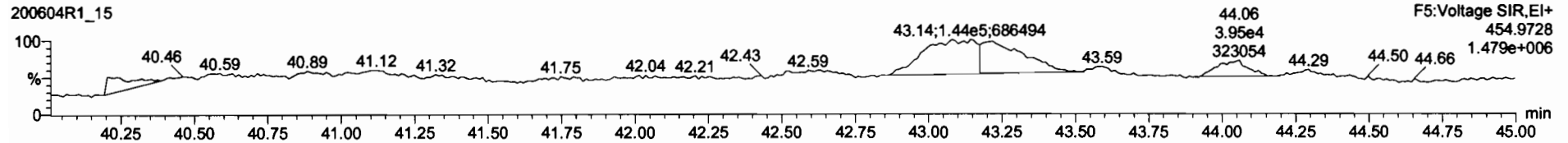
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200604R2\200604R2-7.qld

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GRS 06/08/2020

C7 07/08/2020

Method: Untitled 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R2_7, Date: 05-Jun-2020, Time: 00:37:04, ID: 2000997-02 PDI-061SC-A-04-05-200428 15.39, Description: PDI-061SC-A-04-05-200428

Peak	RA	ny	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF	
1 2,3,7,8-TCDD		NO	0.888	10.007	26.531	1.001						0.0633	
2 1,2,3,7,8-PeCDD		NO	0.908	10.007	31.488	1.001						0.112	
3 1,2,3,4,7,8-HxCDD		NO	1.03	10.007	34.846	1.000						0.105	
4 1,2,3,6,7,8-HxCDD		NO	0.892	10.007	34.943	1.000						0.101	
5 1,2,3,7,8,9-HxCDD		NO	0.887	10.007	35.241	1.000						0.118	
6 1,2,3,4,6,7,8-HpCDD	1.11e3	0.96	NO	0.864	10.007	38.778	38.81	1.000	1.001	0.82613		0.134	0.826
7 OCDD	7.06e3	0.91	NO	0.914	10.007	41.749	41.77	1.000	1.000	5.9576		0.167	5.96
8 2,3,7,8-TCDF		NO	0.751	10.007	25.641	1.001						0.0321	
9 1,2,3,7,8-PeCDF		NO	0.893	10.007	30.205	1.001						0.0326	
10 2,3,4,7,8-PeCDF		NO	0.935	10.007	31.192	1.001						0.0300	
11 1,2,3,4,7,8-HxCDF		NO	0.884	10.007	33.963	1.000						0.0375	
12 1,2,3,6,7,8-HxCDF		NO	0.889	10.007	34.090	1.000						0.0359	
13 2,3,4,6,7,8-HxCDF		NO	0.934	10.007	34.711	1.001						0.0386	
14 1,2,3,7,8,9-HxCDF		NO	0.871	10.007	35.592	1.000						0.0578	
15 1,2,3,4,6,7,8-HpCDF		NO	0.873	10.007	37.398	1.001						0.0714	
16 1,2,3,4,7,8,9-HpCDF		NO	1.01	10.007	39.310	1.000						0.0820	
17 OCDF		NO	0.806	10.007	41.940	1.000						0.0813	
18 13C-2,3,7,8-TCDD	8.13e5	0.78	NO	1.16	10.007	26.538	26.50	1.026	1.025	183.16	91.6	0.179	
19 13C-1,2,3,7,8-PeCDD	5.72e5	0.63	NO	0.849	10.007	31.729	31.47	1.227	1.217	175.48	87.8	0.264	
20 13C-1,2,3,4,7,8-HxCDD	3.83e5	1.29	NO	0.779	10.007	34.853	34.84	1.014	1.014	168.88	84.5	0.392	
21 13C-1,2,3,6,7,8-HxCDD	5.09e5	1.22	NO	1.02	10.007	34.966	34.94	1.017	1.017	172.29	86.2	0.301	
22 13C-1,2,3,7,8,9-HxCDD	4.50e5	1.21	NO	0.903	10.007	35.238	35.23	1.025	1.025	171.25	85.7	0.339	
23 13C-1,2,3,4,6,7,8-HpCDD	3.10e5	1.03	NO	0.689	10.007	38.764	38.77	1.128	1.128	154.70	77.4	0.495	
24 13C-OCDD	5.19e5	0.89	NO	0.652	10.007	41.788	41.75	1.216	1.215	273.52	68.4	0.480	
25 13C-2,3,7,8-TCDF	1.04e6	0.78	NO	1.06	10.007	25.578	25.61	0.989	0.991	171.44	85.8	0.271	
26 13C-1,2,3,7,8-PeCDF	8.50e5	1.59	NO	0.838	10.007	30.111	30.18	1.165	1.167	177.10	88.6	0.417	
27 13C-2,3,4,7,8-PeCDF	8.38e5	1.61	NO	0.817	10.007	31.065	31.16	1.202	1.205	179.30	89.7	0.428	
28 13C-1,2,3,4,7,8-HxCDF	5.14e5	0.50	NO	1.01	10.007	33.983	33.96	0.989	0.988	175.55	87.8	0.722	
29 13C-1,2,3,6,7,8-HxCDF	5.90e5	0.51	NO	1.17	10.007	34.107	34.08	0.992	0.992	173.96	87.0	0.623	
30 13C-2,3,4,6,7,8-HxCDF	5.23e5	0.50	NO	1.02	10.007	34.681	34.68	1.009	1.009	175.84	88.0	0.712	
31 13C-1,2,3,7,8,9-HxCDF	4.22e5	0.49	NO	0.860	10.007	35.581	35.59	1.035	1.036	168.74	84.4	0.846	

Dataset: U:\VG12.PRO\Results\200604R2\200604R2-7.qld

Last Altered: Monday, June 08, 2020 10:18:58 Pacific Daylight Time

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Name: 200604R2_7, Date: 05-Jun-2020, Time: 00:37:04, ID: 2000997-02 PDI-061SC-A-04-05-200428 15.39, Description: PDI-061SC-A-04-05-200428

32	13C-1,2,3,4,6,7,8-HpCDF	3.74e5	0.43	NO	0.774	10.007	37.331	37.36	1.086	1.087	166.06	83.1	0.575	
33	13C-1,2,3,4,7,8,9-HpCDF	2.44e5	0.43	NO	0.521	10.007	39.362	39.31	1.145	1.144	161.11	80.6	0.855	
34	13C-OCDF	6.04e5	0.86	NO	0.746	10.007	41.960	41.94	1.221	1.220	278.52	69.7	0.437	
35	37Cl-2,3,7,8-TCDD	3.37e5			1.04	10.007	26.569	26.53	1.028	1.026	84.723	106	0.0461	
36	13C-1,2,3,4-TCDD	7.67e5	0.79	NO	1.00	10.007	25.890	25.85	1.000	1.000	199.85	100	0.207	
37	13C-1,2,3,4-TCDF	1.14e6	0.80	NO	1.00	10.007	24.360	24.18	1.000	1.000	199.85	100	0.287	
38	13C-1,2,3,4,6,9-HxCDF	5.81e5	0.52	NO	1.00	10.007	34.420	34.37	1.000	1.000	199.85	100	0.727	
39	Total Tetra-Dioxins				0.888	10.007	24.620		0.000		0.35581		0.0352	0.551
40	Total Penta-Dioxins				0.908	10.007	29.960		0.000		0.22092		0.112	0.358
41	Total Hexa-Dioxins				0.892	10.007	33.635		0.000		1.2150		0.112	1.22
42	Total Hepta-Dioxins				0.864	10.007	37.640		0.000		2.3860		0.134	2.39
43	Total Tetra-Furans				0.751	10.007	23.610		0.000		0.39889		0.0321	0.399
44	1st Func. Penta-Furans				0.893	10.007	27.580		0.000				0.00582	
45	Total Penta-Furans				0.893	10.007	29.275		0.000				0.0148	
46	Total Hexa-Furans				0.934	10.007	33.555		0.000				0.0193	
47	Total Hepta-Furans				0.873	10.007	37.835		0.000				0.0439	

Dataset: U:\VG12.PRO\Results\200604R2\200604R2-7.qld

Last Altered: Monday, June 08, 2020 10:18:58 Pacific Daylight Time
 Printed: Monday, June 08, 2020 10:20:16 Pacific Daylight Time

Method: Untitled 01 Jun 2020 11:54:45

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Name: 200604R2_7, Date: 05-Jun-2020, Time: 00:37:04, ID: 2000997-02 PDI-061SC-A-04-05-200428 15.39, Description: PDI-061SC-A-04-05-200428

Tetra-Dioxins

RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Area	Ratio	Y/N	Conc	Conc	Conc	Conc
Total Tetra-Dioxins	22.50	1.704e3	1.970e3	1.442e2	1.828e2	0.79	NO	3.270e2	0.090458	0.090458	0.0352
Total Tetra-Dioxins	23.00	2.160e3	2.847e3	2.194e2	2.385e2	0.92	YES	0.000e0	0.00000	0.11675	0.0352
Total Tetra-Dioxins	23.46	1.875e3	3.086e3	1.142e2	1.681e2	0.68	NO	0.000e0	0.00000	0.078102	0.0352
Total Tetra-Dioxins	24.36	5.383e3	8.383e3	3.902e2	5.691e2	0.69	NO	9.593e2	0.26535	0.26535	0.0352

Penta-Dioxins

RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Area	Ratio	Y/N	Conc	Conc	Conc	Conc
Total Penta-Dioxins	29.24	3.192e3	2.949e3	1.756e2	2.186e2	0.80	YES	0.000e0	0.00000	0.13710	0.112
Total Penta-Dioxins	29.76	3.987e3	6.969e3	2.301e2	3.442e2	0.67	NO	5.743e2	0.22092	0.22092	0.112

Hexa-Dioxins

RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Area	Ratio	Y/N	Conc	Conc	Conc	Conc
Total Hexa-Dioxins	33.35	1.765e4	1.202e4	9.473e2	7.554e2	1.25	NO	1.703e3	0.85281	0.85281	0.112
Total Hexa-Dioxins	34.17	5.976e3	5.300e3	4.124e2	3.108e2	1.33	NO	7.232e2	0.36224	0.36224	0.112

Hepta-Dioxins

RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Area	Ratio	Y/N	Conc	Conc	Conc	Conc
Total Hepta-Dioxins	37.78	1.696e4	1.423e4	1.035e3	1.056e3	0.98	NO	2.091e3	1.5599	1.5599	0.134
1,2,3,4,6,7,8-HpCDD	38.81	8.555e3	9.197e3	5.428e2	5.645e2	0.96	NO	1.107e3	0.82613	0.82613	0.134

Tetra-Furans

RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Area	Ratio	Y/N	Conc	Conc	Conc	Conc
Total Tetra-Furans	21.51	8.476e3	9.035e3	7.195e2	8.388e2	0.86	NO	1.558e3	0.39889	0.39889	0.0321

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Last Altered: Monday, June 08, 2020 10:18:58 Pacific Daylight Time

Printed: Monday, June 08, 2020 10:20:16 Pacific Daylight Time

Name: 200604R2_7, Date: 05-Jun-2020, Time: 00:37:04, ID: 2000997-02 PDI-061SC-A-04-05-200428 15.39, Description: PDI-061SC-A-04-05-200428

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp
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Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp
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Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp
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Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp
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5

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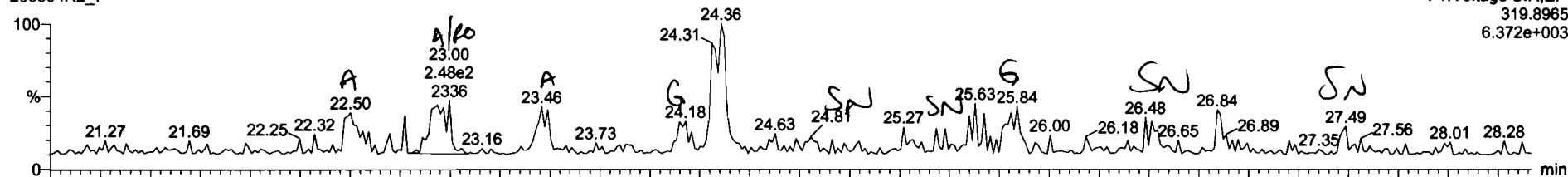
Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time

Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

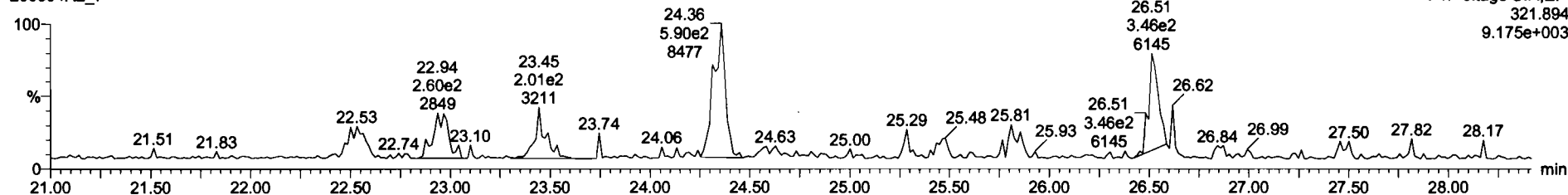
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2,3,7,8-TCDD

200604R2_7

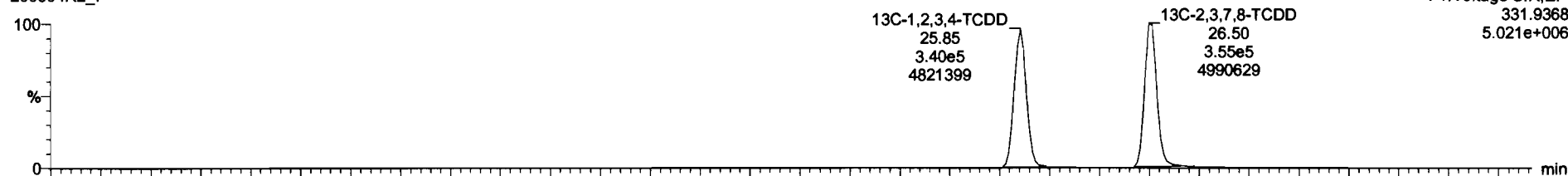


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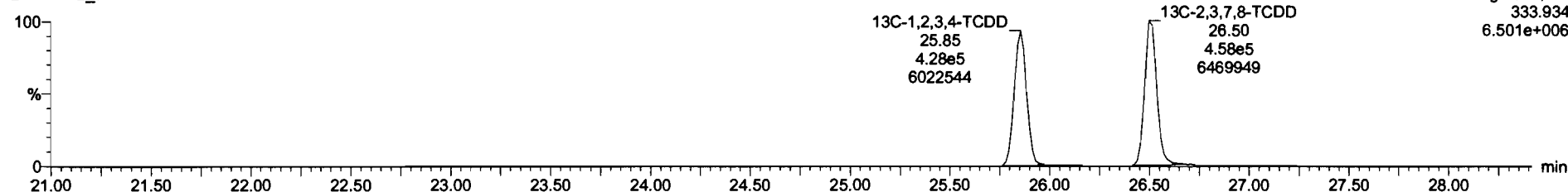


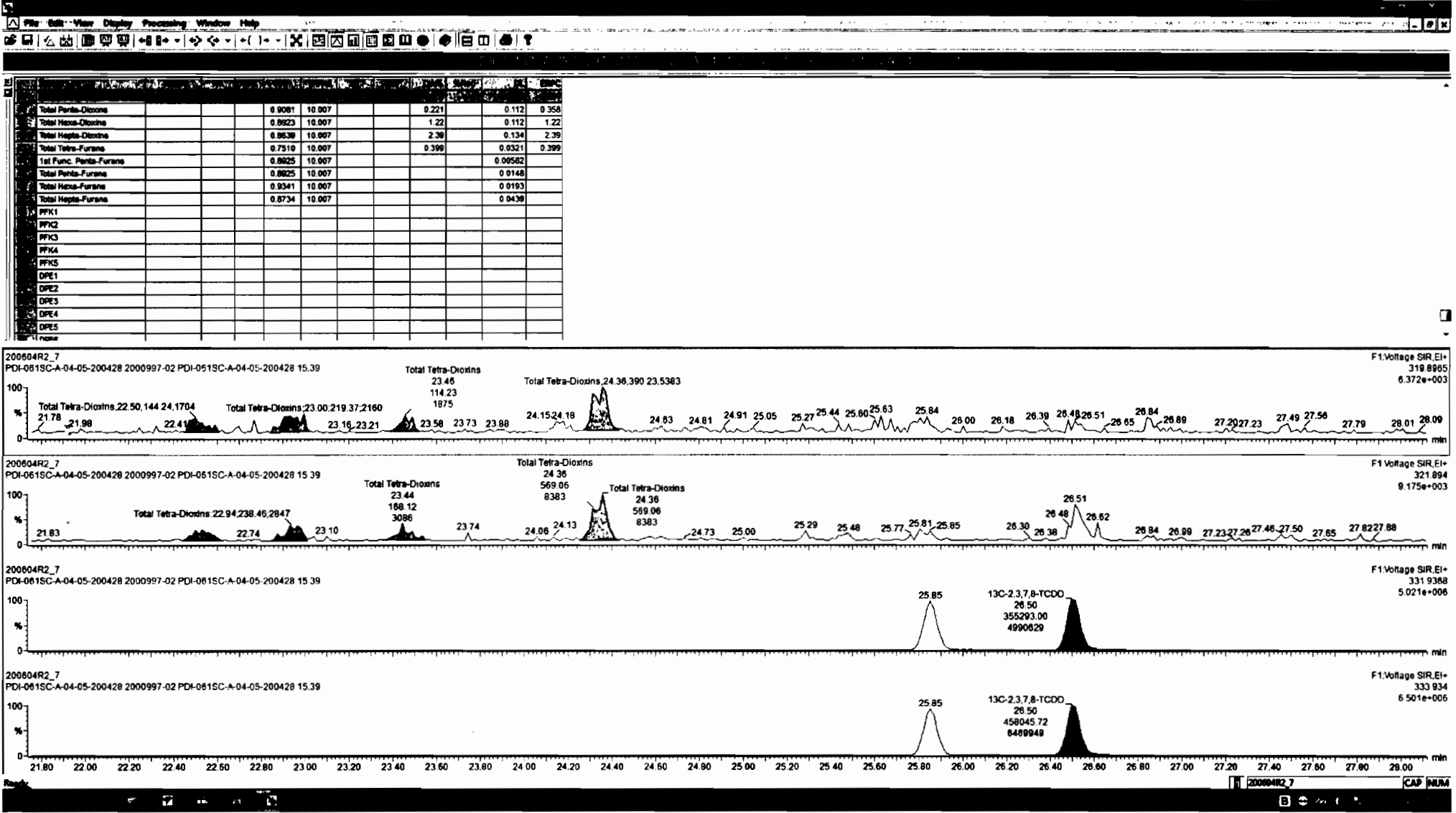
13C-2,3,7,8-TCDD

200604R2_7



200604R2_7





Total Penta-Dioxins	0.9081	10.007		0.221	0.112	0.358
Total Hexa-Dioxins	0.8923	10.007		1.22	0.112	1.22
Total Hepta-Dioxins	0.8630	10.007		2.36	0.134	2.39
Total Tetra-Furans	0.7310	10.007		0.399	0.0321	0.399
1st Func. Penta-Furans	0.8025	10.007			0.00582	
Total Penta-Furans	0.8025	10.007			0.0148	
Total Hexa-Furans	0.9341	10.007			0.0193	
Total Hepta-Furans	0.8734	10.007			0.0439	
PFK1						
PFK2						
PFK3						
PFK4						
PFK5						
DPE1						
DPE2						
DPE3						
DPE4						
DPE5						

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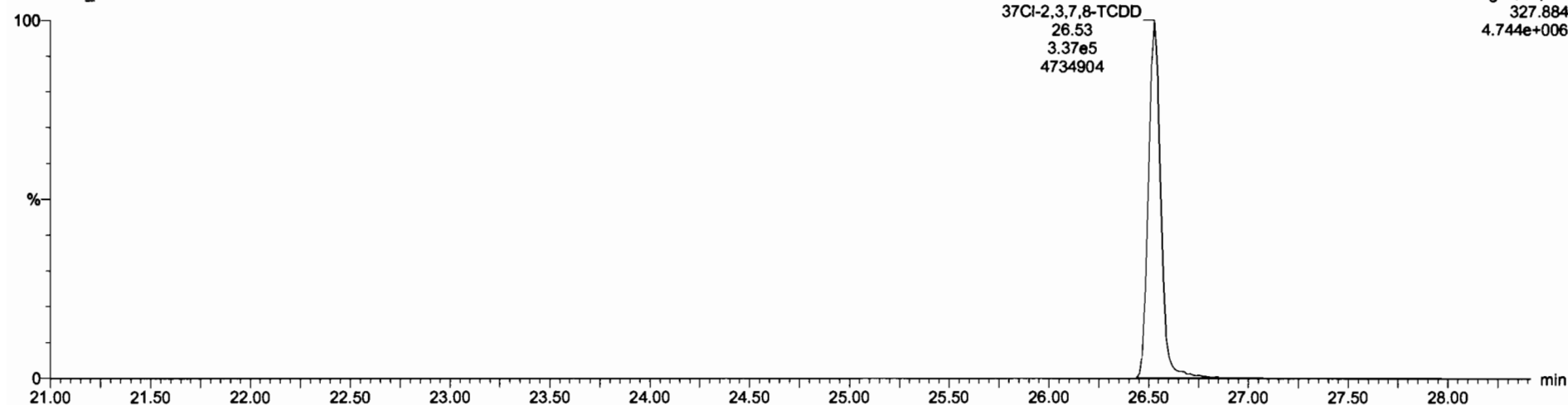
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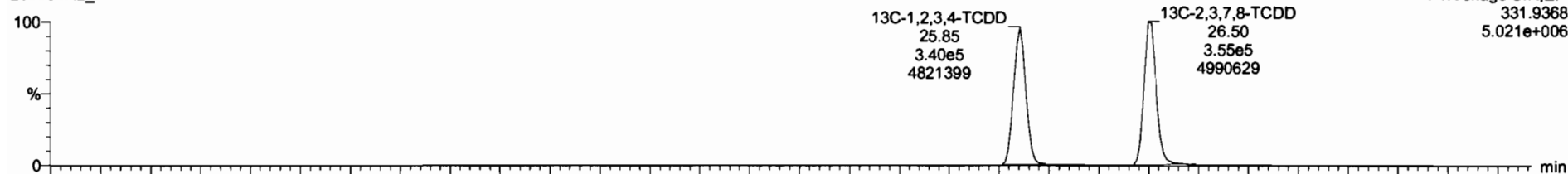
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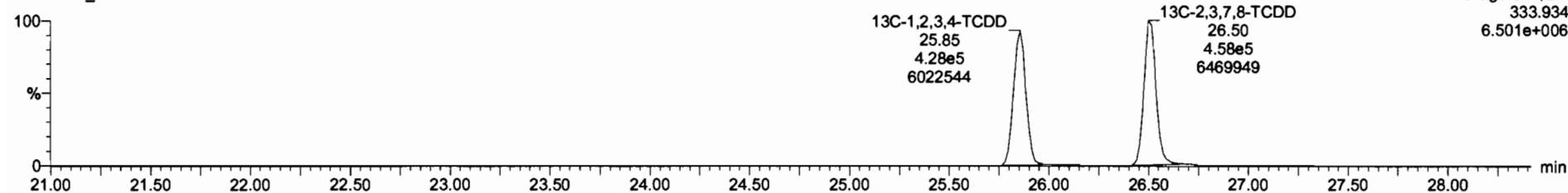


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200604R2_7



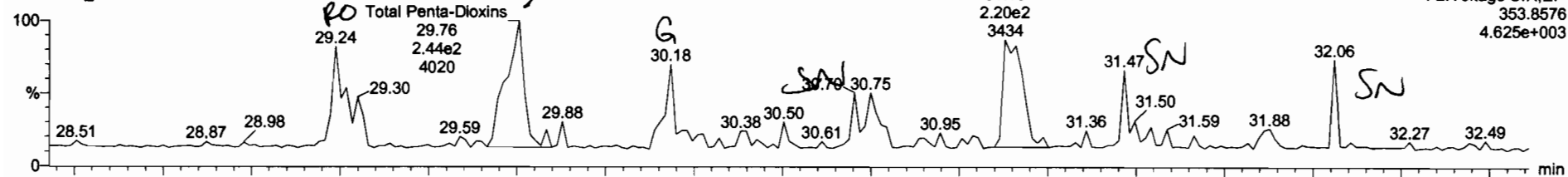
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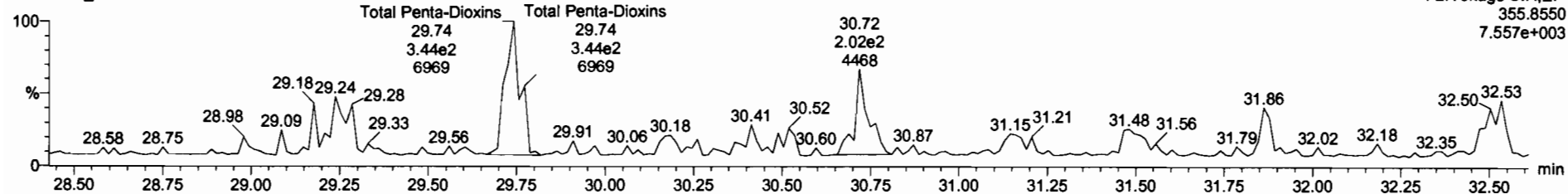
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1,2,3,7,8-PeCDD

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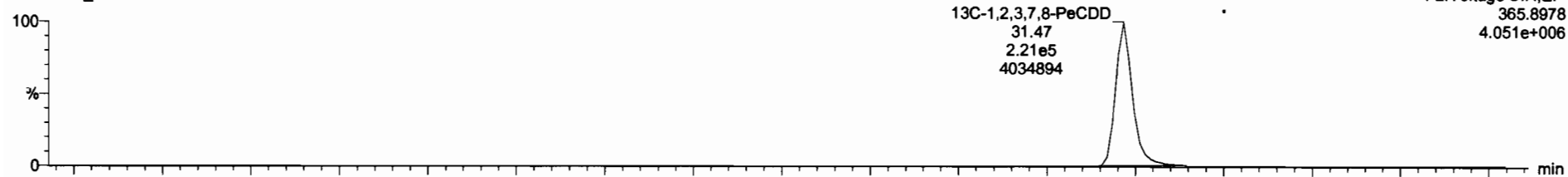


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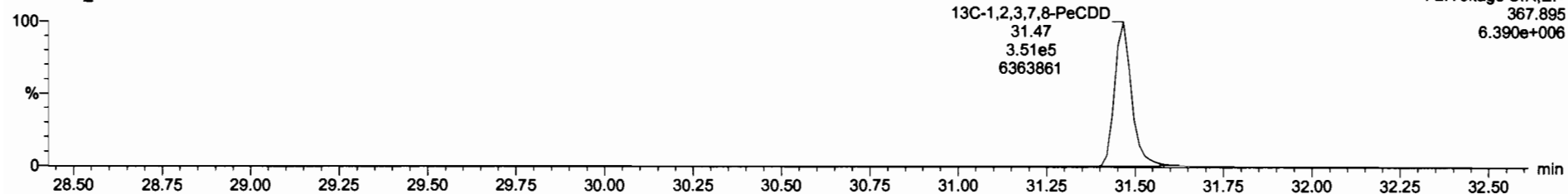


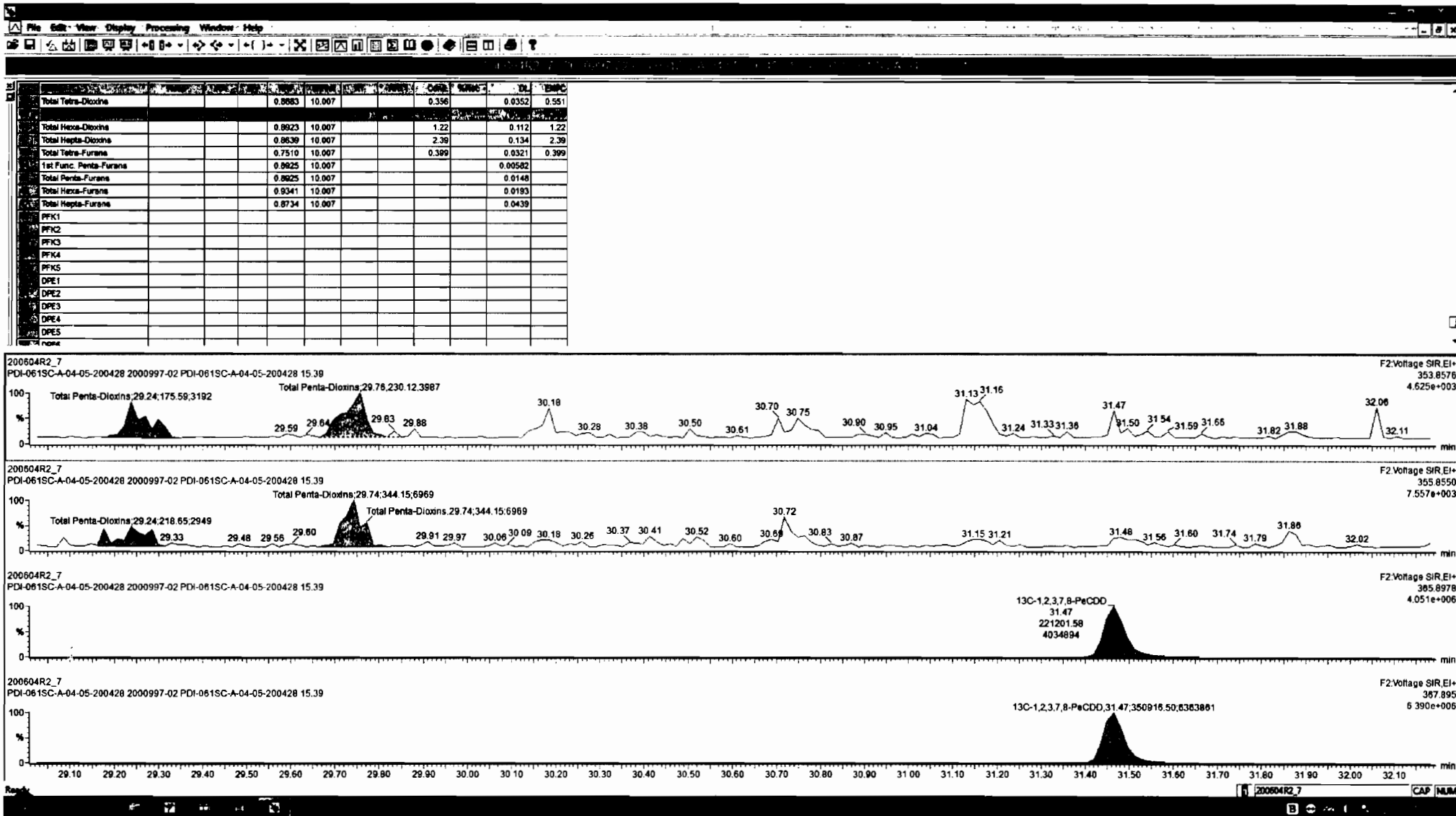
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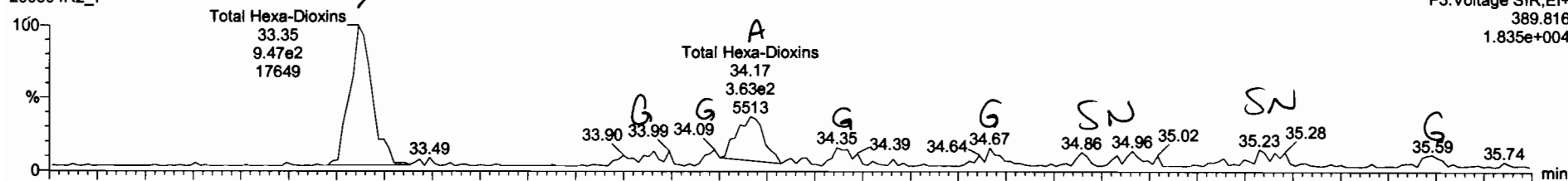
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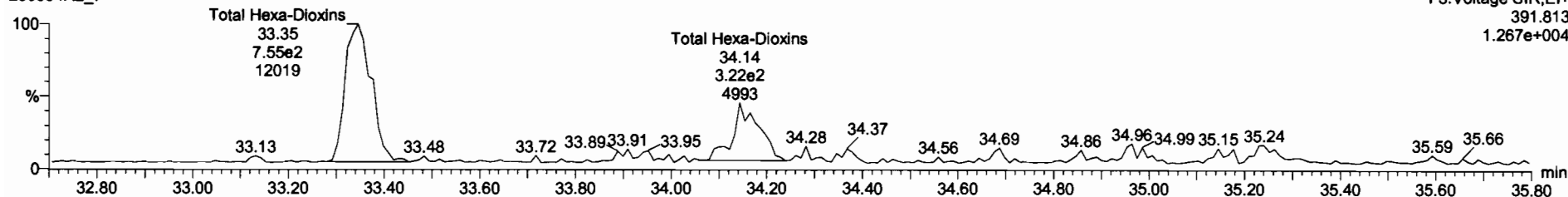
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1,2,3,4,7,8-HxCDD

200604R2_7

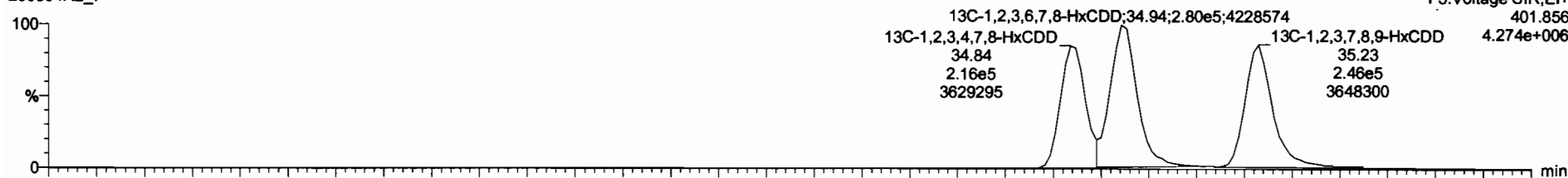


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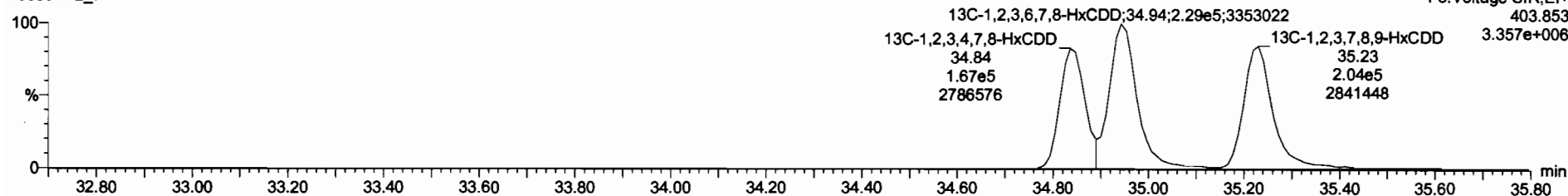


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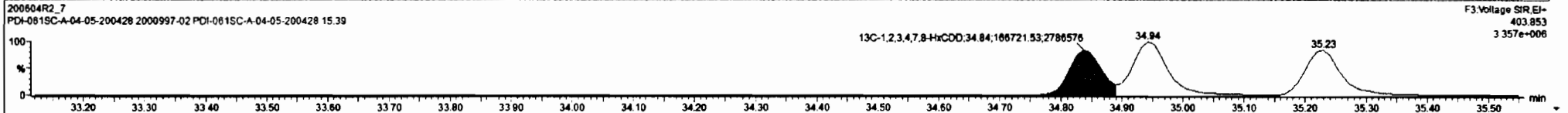
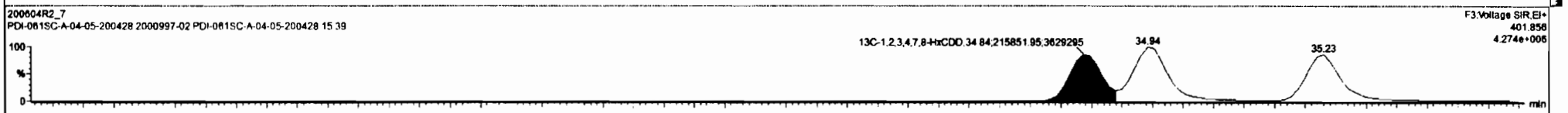
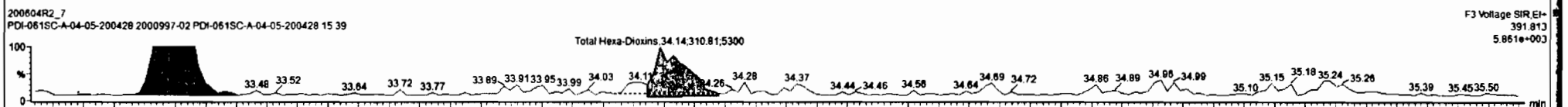
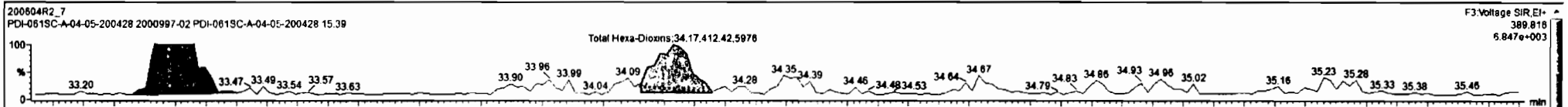
200604R2_7



200604R2_7



Comp	Area	Time	Conc	Unit	Recovery	Response
Total Tetra-Dioxins	0.8683	10.007	0.356		0.0352	0.551
Total Penta-Dioxins	0.9081	10.007	0.221		0.112	0.358
Total Hepta-Dioxins	0.8630	10.007	2.30		0.134	2.30
Total Tetra-Furans	0.7510	10.007	0.399		0.0321	0.399
1st Func. Penta-Furans	0.8625	10.007			0.00582	
Total Penta-Furans	0.8625	10.007			0.0148	
Total Hexa-Furans	0.9341	10.007			0.0193	
Total Hepta-Furans	0.8734	10.007			0.0439	
PFK1						
PFK2						
PFK3						
PFK4						
PFK5						
DPE1						
DPE2						
DPE3						
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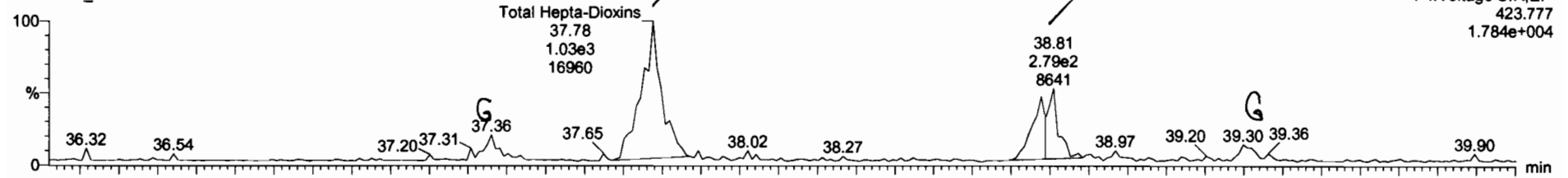
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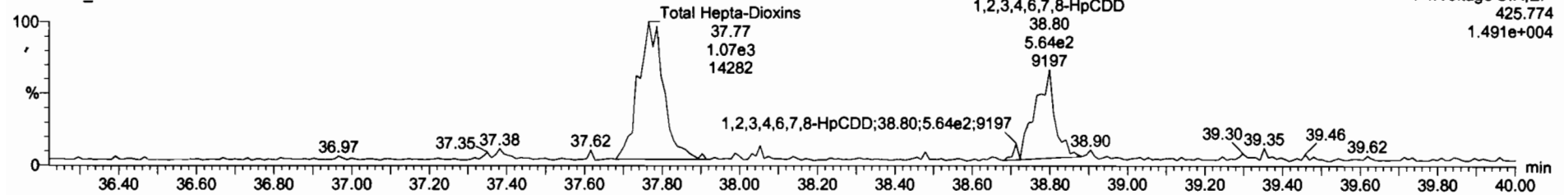
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1,2,3,4,6,7,8-HpCDD

200604R2_7

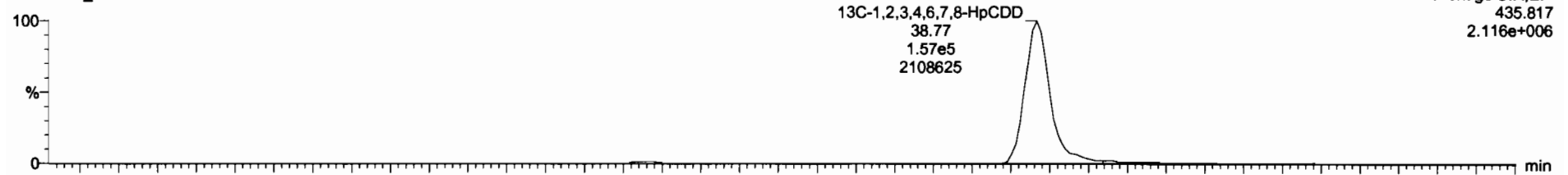


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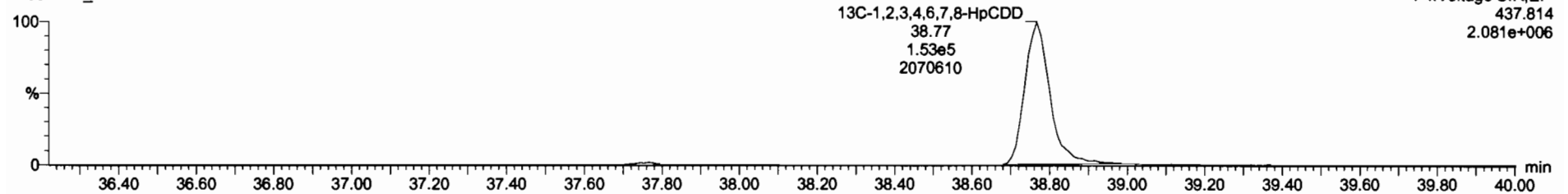


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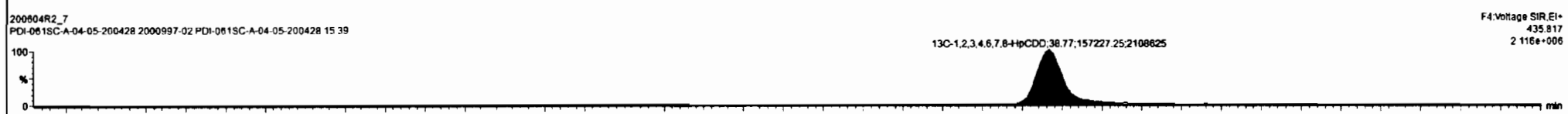
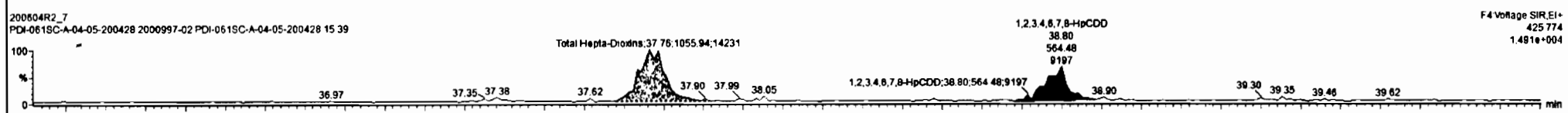
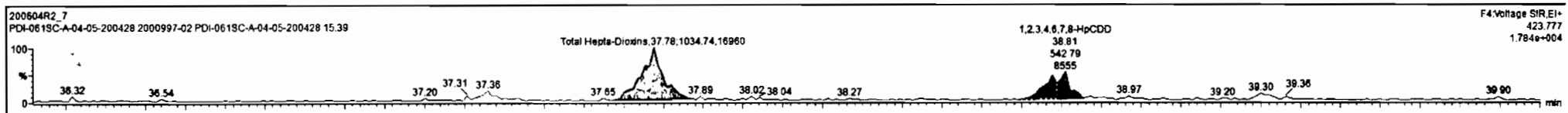
200604R2_7



200604R2_7



	Area	Time	Conc	Conc	Conc	Conc
Total Tetra-Dioxins	0.8883	10.007		0.356	0.0352	0.551
Total Penta-Dioxins	0.9081	10.007		0.221	0.112	0.358
Total Hexa-Dioxins	0.8823	10.007		1.22	0.112	1.22
Total Tetra-Furans	0.7510	10.007		0.390	0.0321	0.399
1st Func. Penta-Furans	0.8825	10.007			0.00582	
Total Penta-Furans	0.8825	10.007			0.0148	
Total Hexa-Furans	0.9341	10.007			0.0193	
Total Hepta-Furans	0.8734	10.007			0.0439	
PFK1						
PFK2						
PFK3						
PFK4						
PFK5						
DPE1						
DPE2						
DPE3						
DPE4						
DPE5						
None						

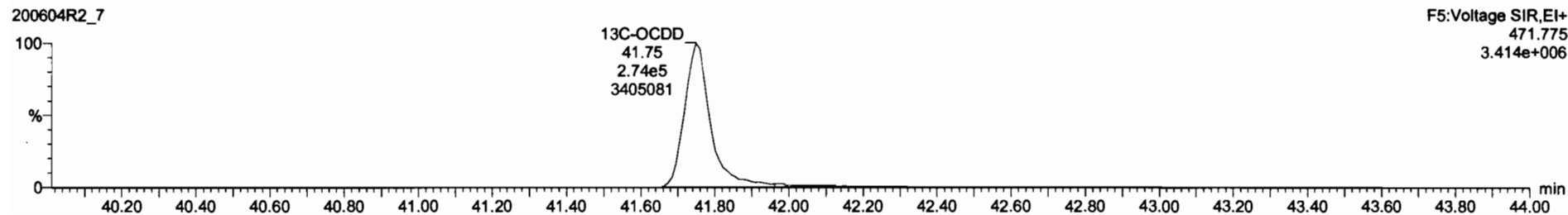
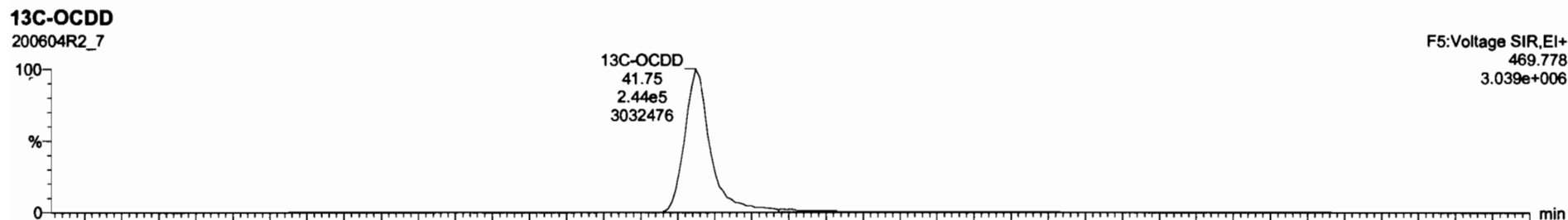
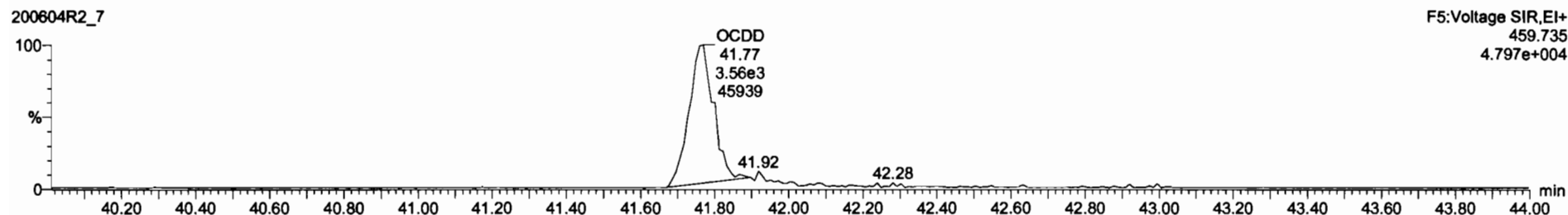
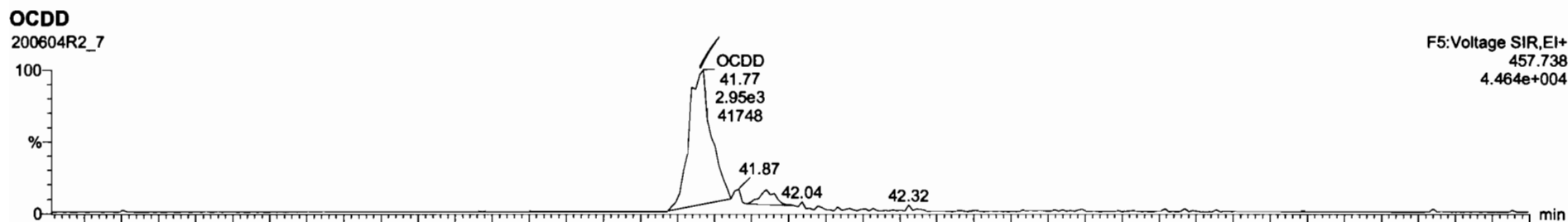


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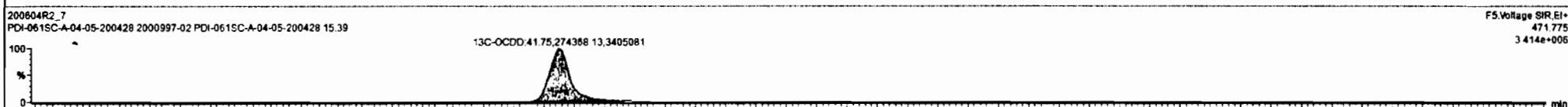
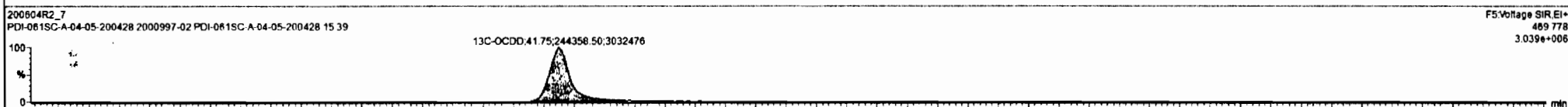
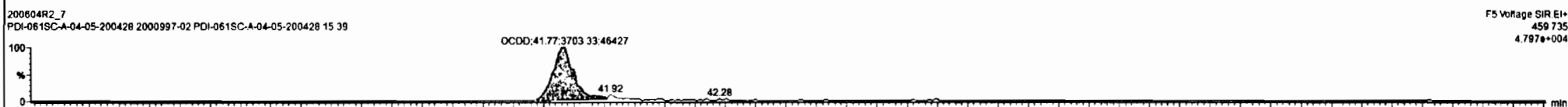
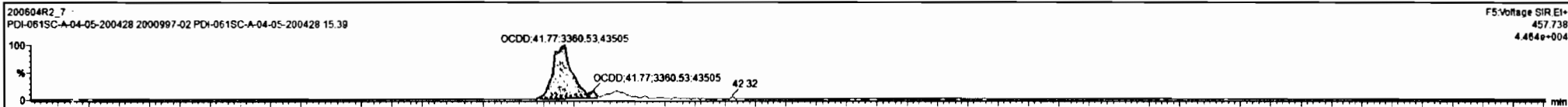
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2,3,7,8-TCDF			NO	0.7510	10.007					0.0321
1,2,3,7,8-PeCDF			NO	0.8625	10.007					0.0326
2,3,4,7,8-PeCDF			NO	0.9348	10.007					0.0300
1,2,3,4,7,8-HxCDF			NO	0.8845	10.007					0.0375
1,2,3,6,7,8-HxCDF			NO	0.8882	10.007					0.0358
2,3,4,6,7,8-HxCDF			NO	0.9341	10.007					0.0386
1,2,3,7,8,9-HxCDF			NO	0.8797	10.007					0.0578
1,2,3,4,6,7,8-HpCDF			NO	0.8734	10.007					0.0714
1,2,3,4,7,8,9-HpCDF			NO	1.0128	10.007					0.0620
OCDF			NO	0.8665	10.007					0.0813
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13C-1,2,3,7,8-PeCDD	5.72e5	0.63	NO	0.8490	10.007	31.47	1.217	175	87.8	0.264
13C-1,2,3,4,7,8-HxCDD	3.83e5	1.29	NO	0.7790	10.007	34.84	1.014	189	84.5	0.382
13C-1,2,3,6,7,8-HxCDD	5.09e5	1.22	NO	1.0167	10.007	34.94	1.017	172	86.2	0.301
13C-1,2,3,7,8,9-HxCDD	4.50e5	1.21	NO	0.9027	10.007	35.23	1.025	171	85.7	0.339
13C-1,2,3,4,6,7,8-HpCDD	3.10e5	1.03	NO	0.6882	10.007	38.77	1.128	155	77.4	0.495
13C-OCDD	5.19e5	0.89	NO	0.6521	10.007	41.75	1.215	274	68.4	0.480
13C-2,3,7,8-TCDF	1.04e6	0.78	NO	1.0590	10.007	25.61	0.991	171	85.8	0.271



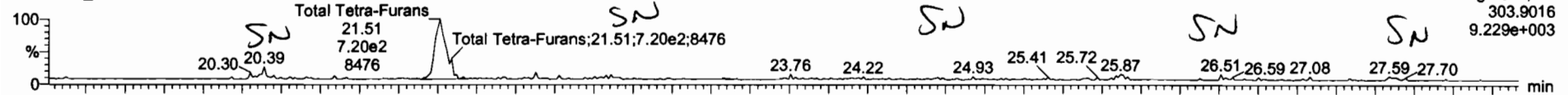
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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

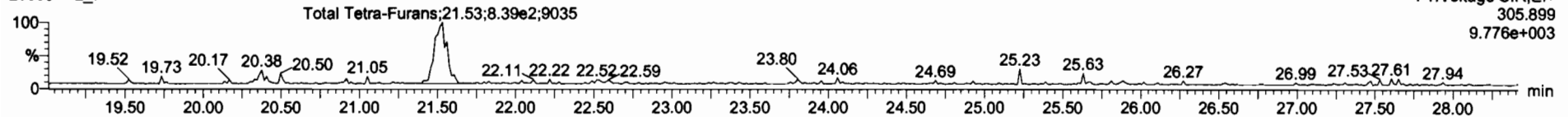
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2,3,7,8-TCDF

200604R2_7

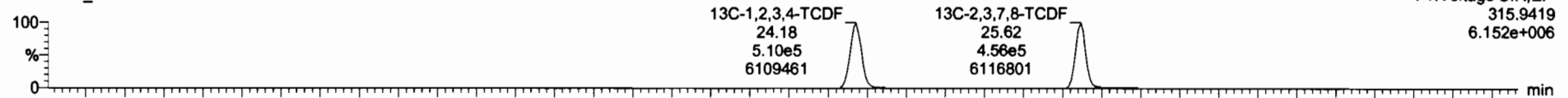


200604R2_7

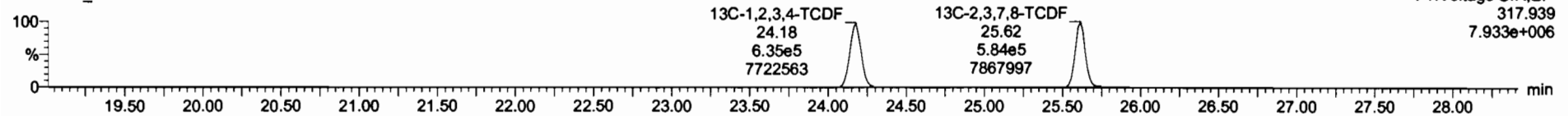


13C-2,3,7,8-TCDF

200604R2_7

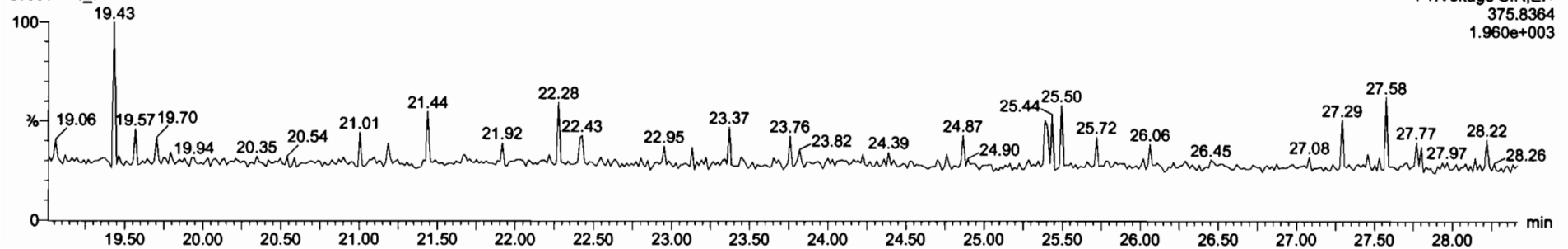


200604R2_7



DPE1

200604R2_7



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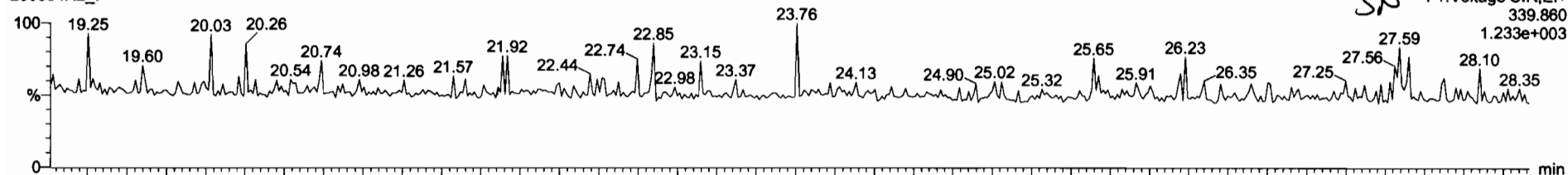
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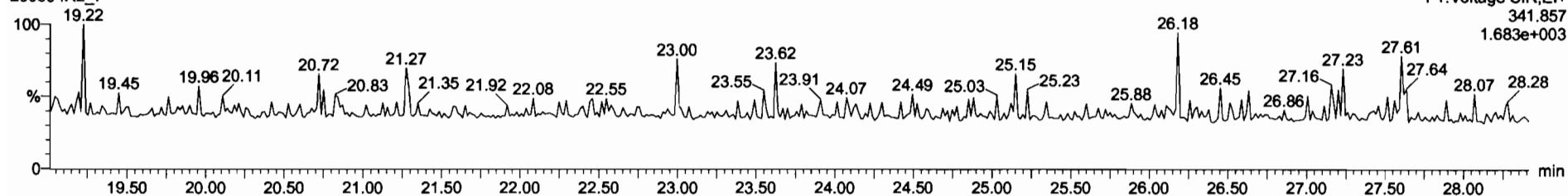
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1st Func. Penta-Furans

200604R2_7

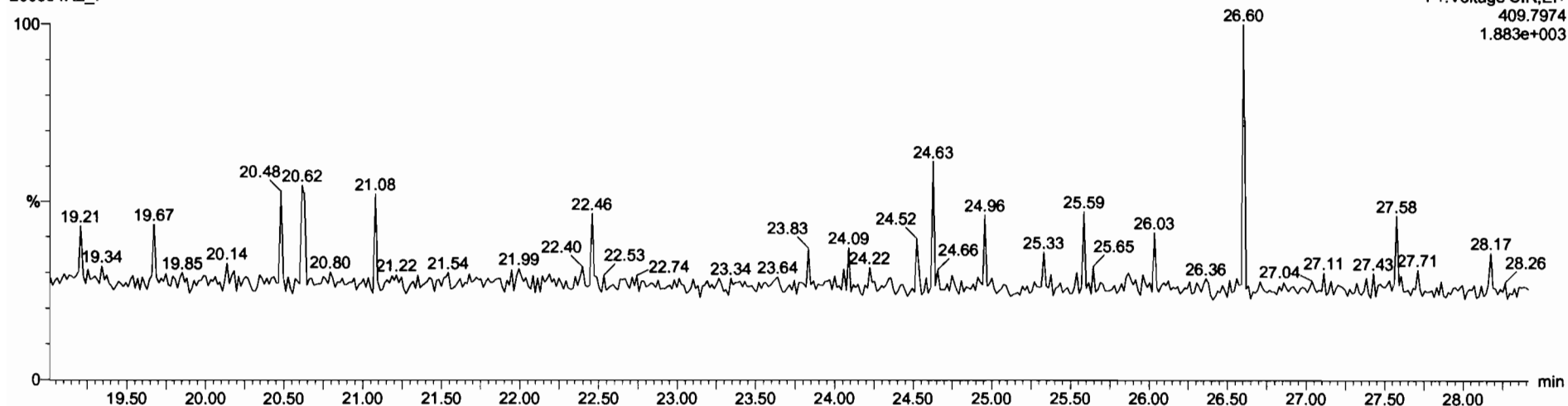


200604R2_7



DPE6

200604R2_7

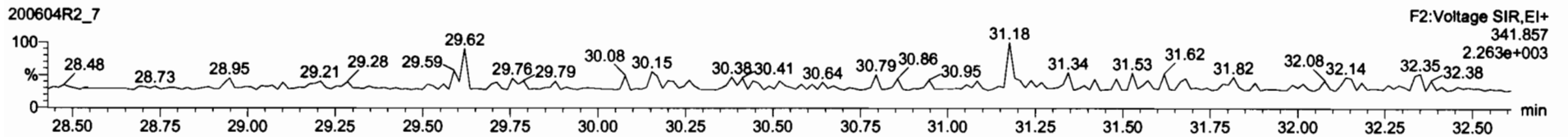
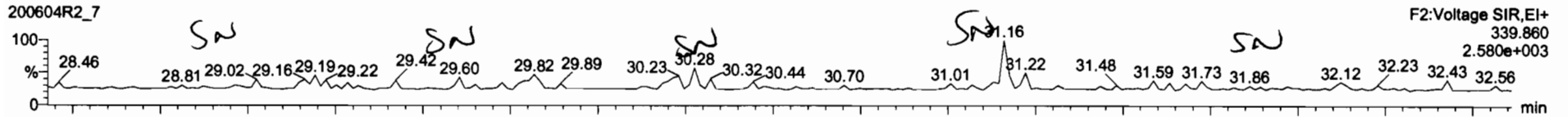


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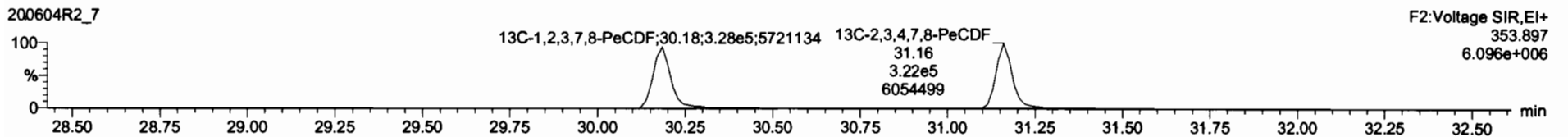
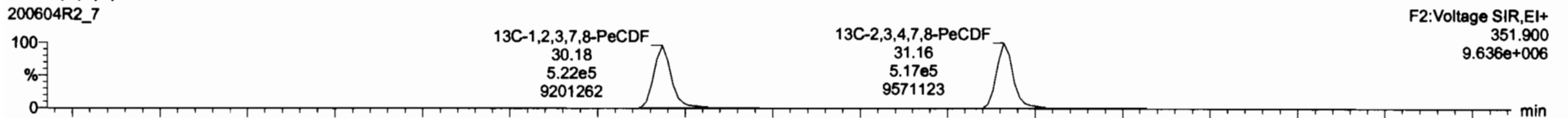
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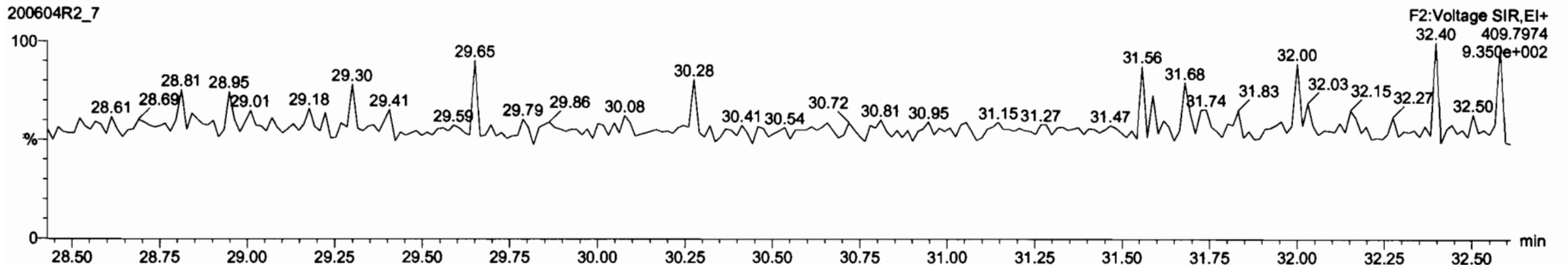
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13C-1,2,3,7,8-PeCDF



DPE2

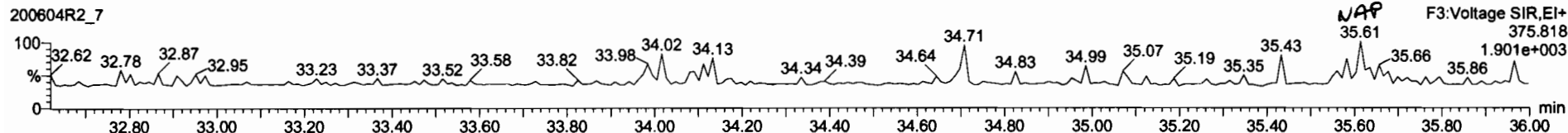
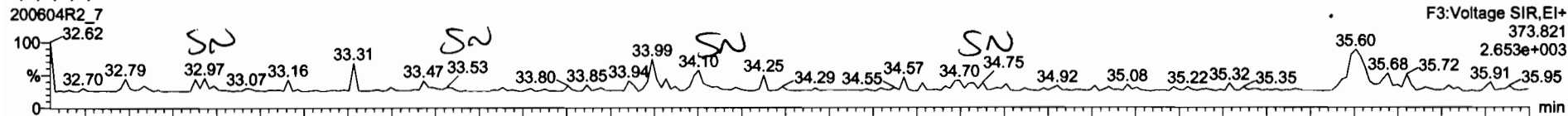


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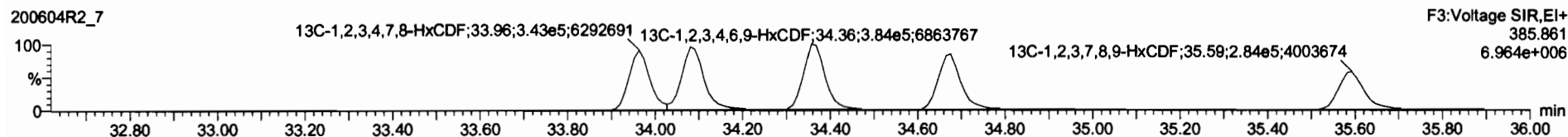
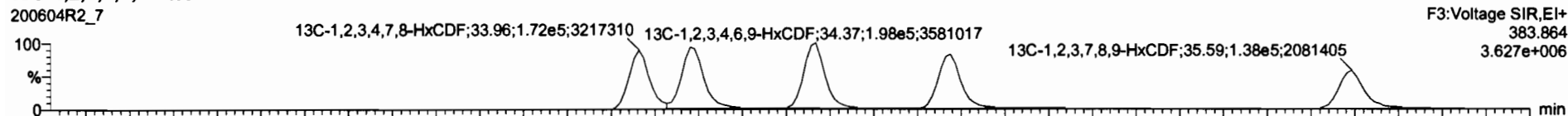
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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_7, Date: 05-Jun-2020, Time: 00:37:04, ID: 2000997-02 PDI-061SC-A-04-05-200428 15.39, Description: PDI-061SC-A-04-05-200428

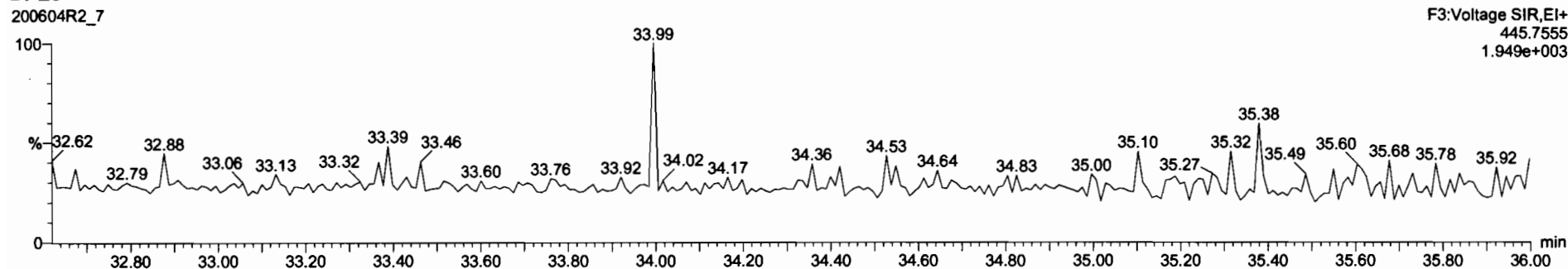
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13C-1,2,3,4,7,8-HxCDF



DPE3

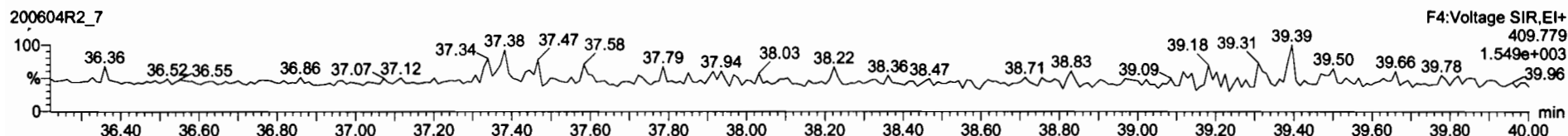
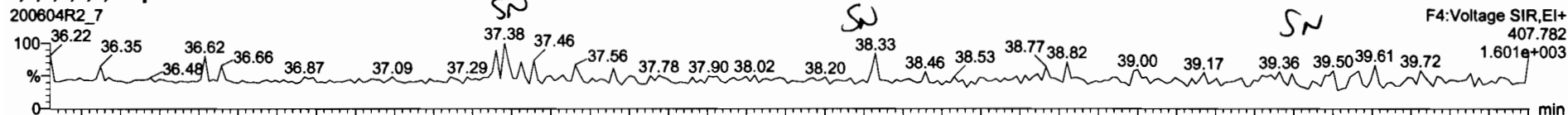


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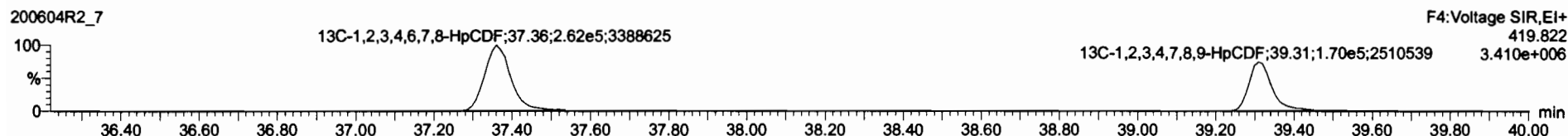
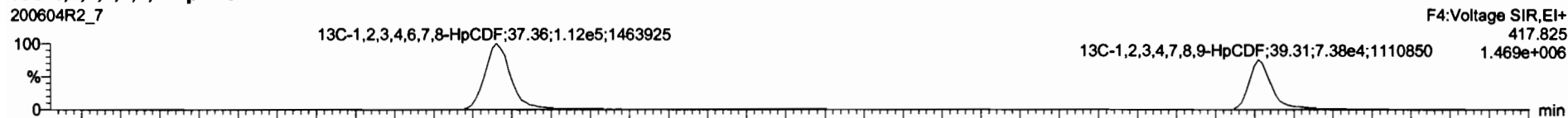
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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_7, Date: 05-Jun-2020, Time: 00:37:04, ID: 2000997-02 PDI-061SC-A-04-05-200428 15.39, Description: PDI-061SC-A-04-05-200428

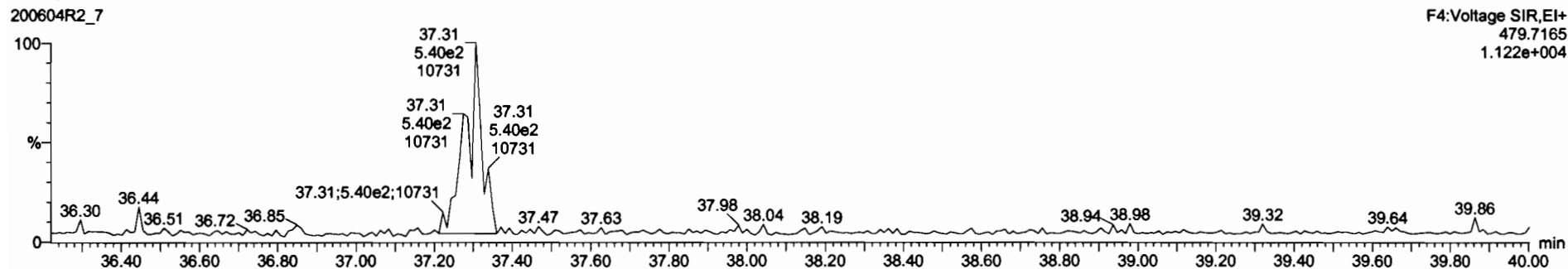
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13C-1,2,3,4,6,7,8-HpCDF



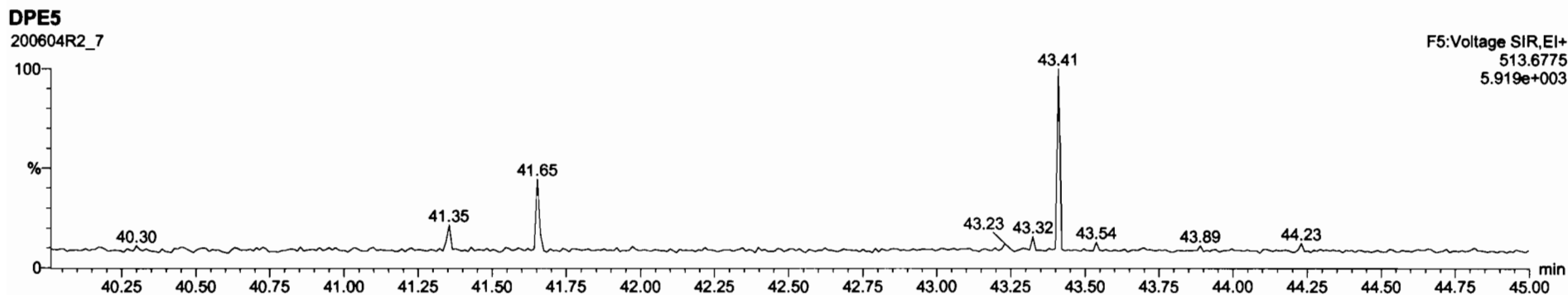
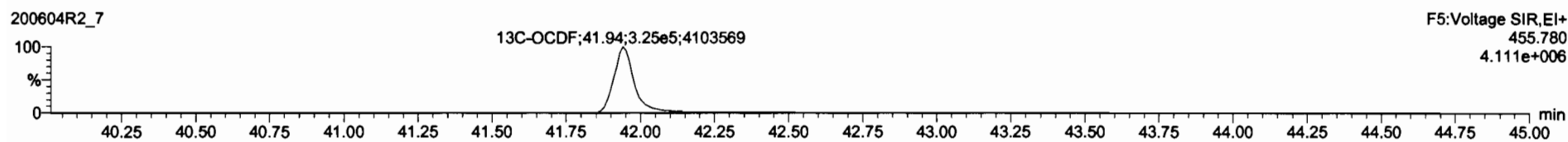
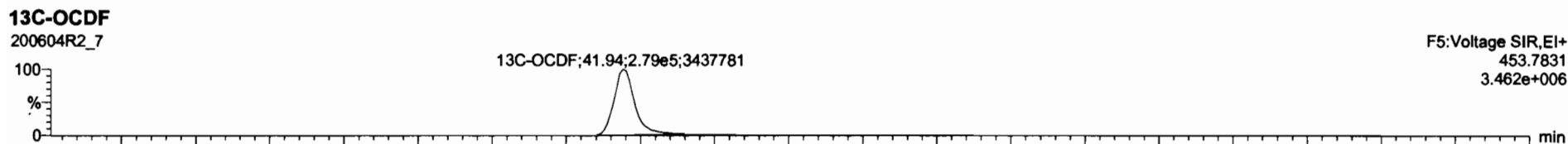
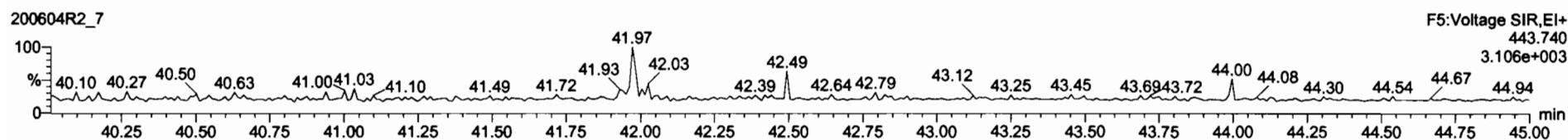
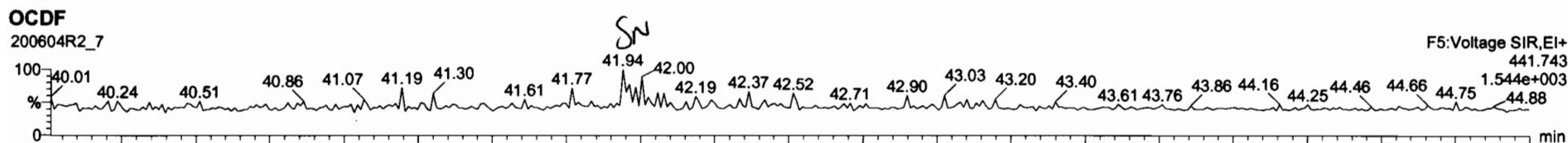
DPE4



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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

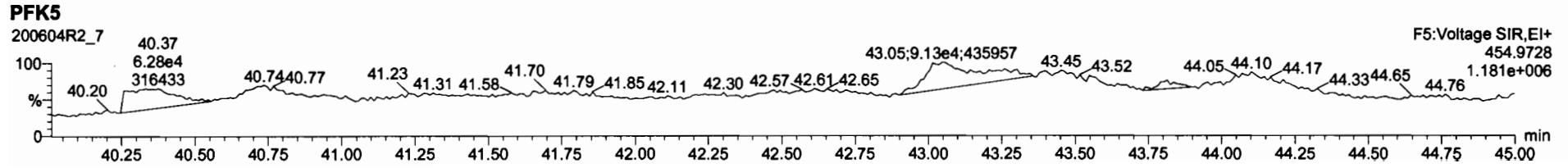
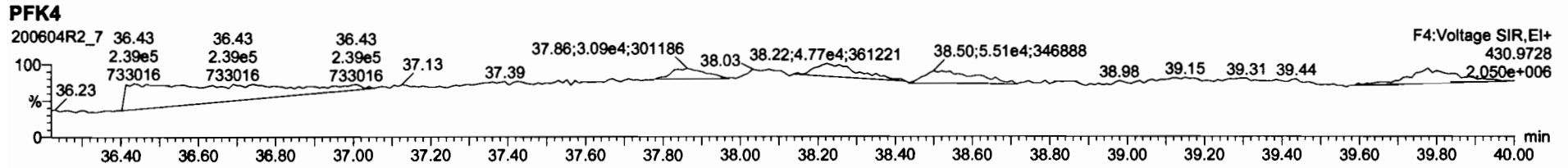
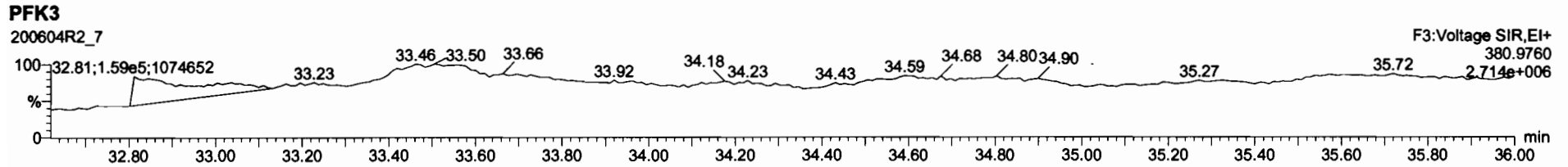
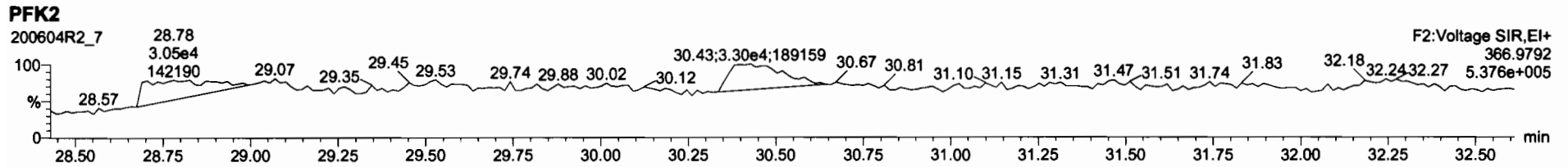
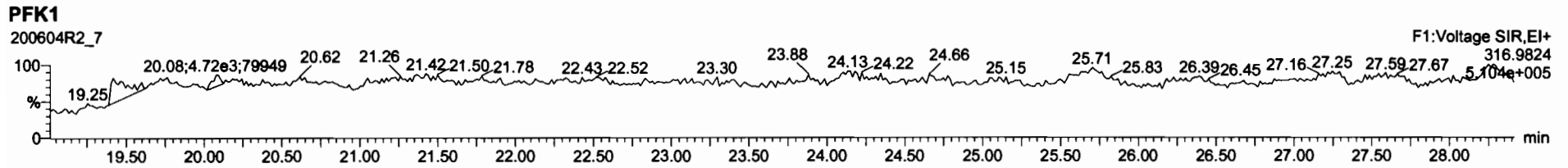
Name: 200604R2_7, Date: 05-Jun-2020, Time: 00:37:04, ID: 2000997-02 PDI-061SC-A-04-05-200428 15.39, Description: PDI-061SC-A-04-05-200428



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Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_7, Date: 05-Jun-2020, Time: 00:37:04, ID: 2000997-02 PDI-061SC-A-04-05-200428 15.39, Description: PDI-061SC-A-04-05-200428



Dataset: U:\VG12.PRO\Results\200604R2\200604R2-8.qld

Last Altered: Monday, June 08, 2020 10:09:00 Pacific Daylight Time
Printed: Monday, June 08, 2020 10:10:45 Pacific Daylight Time

GRS 06/08/2020

C207/08/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R2_8, Date: 05-Jun-2020, Time: 01:23:17, ID: 2000997-03 PDI-061SC-A-05-06-200428 15.16, Description: PDI-061SC-A-05-06-200428

	RRF	RA	nly	RRF	W	W	W	W	W	W	W	W	W	
1 2,3,7,8-TCDD			NO	0.888	10.147	26.546		1.001					0.0589	
2 1,2,3,7,8-PeCDD			NO	0.908	10.147	31.503		1.001					0.0864	
3 1,2,3,4,7,8-HxCDD			NO	1.03	10.147	34.857		1.000					0.0951	
4 1,2,3,6,7,8-HxCDD			NO	0.892	10.147	34.953		1.000					0.0938	
5 1,2,3,7,8,9-HxCDD			NO	0.887	10.147	35.241		1.000					0.113	
6 1,2,3,4,6,7,8-HpCDD	8.88e2	0.95	NO	0.864	10.147	38.789	38.80	1.000	1.001	0.66832			0.187	0.668
7 OCDD	5.66e3	0.86	NO	0.914	10.147	41.770	41.78	1.000	1.000	4.8588			0.190	4.86
8 2,3,7,8-TCDF			NO	0.751	10.147	25.641		1.001					0.0316	
9 1,2,3,7,8-PeCDF			NO	0.893	10.147	30.205		1.001					0.0207	
10 2,3,4,7,8-PeCDF			NO	0.935	10.147	31.207		1.001					0.0186	
11 1,2,3,4,7,8-HxCDF			NO	0.884	10.147	33.973		1.000					0.0300	
12 1,2,3,6,7,8-HxCDF			NO	0.889	10.147	34.100		1.000					0.0289	
13 2,3,4,6,7,8-HxCDF			NO	0.934	10.147	34.711		1.001					0.0304	
14 1,2,3,7,8,9-HxCDF			NO	0.871	10.147	35.603		1.000					0.0479	
15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.147	37.408		1.001					0.0530	
16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.147	39.320		1.000					0.0595	
17 OCDF			NO	0.806	10.147	41.961		1.000					0.0802	
18 13C-2,3,7,8-TCDD	8.01e5	0.79	NO	1.16	10.147	26.538	26.51	1.026	1.025	192.27	97.6		0.190	
19 13C-1,2,3,7,8-PeCDD	5.63e5	0.63	NO	0.849	10.147	31.729	31.48	1.227	1.218	184.07	93.4		0.432	
20 13C-1,2,3,4,7,8-HxCDD	3.74e5	1.30	NO	0.779	10.147	34.853	34.85	1.014	1.014	173.84	88.2		0.654	
21 13C-1,2,3,6,7,8-HxCDD	4.92e5	1.30	NO	1.02	10.147	34.966	34.95	1.017	1.017	175.21	88.9		0.501	
22 13C-1,2,3,7,8,9-HxCDD	4.27e5	1.27	NO	0.903	10.147	35.238	35.23	1.025	1.025	171.07	86.8		0.564	
23 13C-1,2,3,4,6,7,8-HpCDD	3.03e5	1.11	NO	0.689	10.147	38.764	38.78	1.128	1.128	159.14	80.7		0.474	
24 13C-OCDD	5.03e5	0.84	NO	0.652	10.147	41.788	41.77	1.216	1.215	279.11	70.8		0.558	
25 13C-2,3,7,8-TCDF	1.04e6	0.77	NO	1.06	10.147	25.578	25.61	0.989	0.991	182.07	92.4		0.304	
26 13C-1,2,3,7,8-PeCDF	8.53e5	1.59	NO	0.838	10.147	30.111	30.18	1.165	1.167	187.86	95.3		0.535	
27 13C-2,3,4,7,8-PeCDF	8.34e5	1.56	NO	0.817	10.147	31.065	31.18	1.202	1.206	188.45	95.6		0.549	
28 13C-1,2,3,4,7,8-HxCDF	5.04e5	0.51	NO	1.01	10.147	33.983	33.97	0.989	0.989	181.18	91.9		0.860	
29 13C-1,2,3,6,7,8-HxCDF	5.81e5	0.51	NO	1.17	10.147	34.107	34.09	0.992	0.992	180.16	91.4		0.743	
30 13C-2,3,4,6,7,8-HxCDF	5.18e5	0.49	NO	1.02	10.147	34.681	34.68	1.009	1.009	183.63	93.2		0.848	
31 13C-1,2,3,7,8,9-HxCDF	4.17e5	0.52	NO	0.860	10.147	35.581	35.60	1.035	1.036	175.47	89.0		1.01	

Dataset: U:\VG12.PRO\Results\200604R2\200604R2-8.qld

Last Altered: Monday, June 08, 2020 10:09:00 Pacific Daylight Time

Printed: Monday, June 08, 2020 10:10:45 Pacific Daylight Time

Name: 200604R2_8, Date: 05-Jun-2020, Time: 01:23:17, ID: 2000997-03 PDI-061SC-A-05-06-200428 15.16, Description: PDI-061SC-A-05-06-200428

32	13C-1,2,3,4,6,7,8-HpCDF	3.55e5	0.43	NO	0.774	10.147	37.331	37.37	1.086	1.087	165.92	84.2	0.504	
33	13C-1,2,3,4,7,8,9-HpCDF	2.37e5	0.42	NO	0.521	10.147	39.362	39.32	1.145	1.144	164.34	83.4	0.750	
34	13C-OCDF	6.02e5	0.84	NO	0.746	10.147	41.960	41.96	1.221	1.221	292.13	74.1	0.509	
35	37Cl-2,3,7,8-TCDD	3.29e5			1.04	10.147	26.569	26.54	1.028	1.027	88.153	112	0.0712	
36	13C-1,2,3,4-TCDD	7.10e5	0.80	NO	1.00	10.147	25.890	25.85	1.000	1.000	197.09	100	0.220	
37	13C-1,2,3,4-TCDF	1.07e6	0.77	NO	1.00	10.147	24.360	24.19	1.000	1.000	197.09	100	0.322	
38	13C-1,2,3,4,6,9-HxCDF	5.45e5	0.50	NO	1.00	10.147	34.420	34.37	1.000	1.000	197.09	100	0.867	
39	Total Tetra-Dioxins				0.888	10.147	24.620		0.000		0.21302		0.0337	0.213
40	Total Penta-Dioxins				0.908	10.147	29.960		0.000		0.00000		0.0320	0.142
41	Total Hexa-Dioxins				0.892	10.147	33.635		0.000		0.86148		0.105	0.861
42	Total Hepta-Dioxins				0.864	10.147	37.640		0.000		1.7322		0.187	1.73
43	Total Tetra-Furans				0.751	10.147	23.610		0.000		0.13291		0.0316	0.133
44	1st Func. Penta-Furans				0.893	10.147	27.580		0.000				0.00680	
45	Total Penta-Furans				0.893	10.147	29.275		0.000				0.00859	
46	Total Hexa-Furans				0.934	10.147	33.555		0.000				0.0168	
47	Total Hepta-Furans				0.873	10.147	37.835		0.000				0.0318	

Dataset: U:\VG12.PRO\Results\200604R2\200604R2-8.qld
 Last Altered: Monday, June 08, 2020 10:09:00 Pacific Daylight Time
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Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
 Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R2_8, Date: 05-Jun-2020, Time: 01:23:17, ID: 2000997-03 PDI-061SC-A-05-06-200428 15.16, Description: PDI-061SC-A-05-06-200428

Tetra-Dioxins

	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Yield	Yield %	Yield %	Yield %	Yield %	Yield %
Total Tetra-Dioxins	24.36	4.326e3	5.908e3	3.171e2	4.521e2	0.70	NO	7.692e2	0.21302	0.21302	0.0337

Penta-Dioxins

	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Yield	Yield %	Yield %	Yield %	Yield %	Yield %
Total Penta-Dioxins	29.28	2.400e3	1.442e3	9.263e1	8.257e1	1.12	YES	0.000e0	0.00000	0.051872	0.0320
Total Penta-Dioxins	29.76	6.052e3	2.909e3	1.855e2	1.433e2	1.29	YES	0.000e0	0.00000	0.090053	0.0320

Hexa-Dioxins

	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Yield	Yield %	Yield %	Yield %	Yield %	Yield %
Total Hexa-Dioxins	33.36	1.445e4	9.345e3	6.835e2	4.953e2	1.38	NO	1.179e3	0.60414	0.60414	0.105
Total Hexa-Dioxins	34.18	3.844e3	2.850e3	2.621e2	2.400e2	1.09	NO	5.021e2	0.25734	0.25734	0.105

Hepta-Dioxins

	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Yield	Yield %	Yield %	Yield %	Yield %	Yield %
Total Hepta-Dioxins	37.78	9.752e3	1.106e4	7.108e2	7.023e2	1.01	NO	1.413e3	1.0639	1.0639	0.187
1,2,3,4,6,7,8-HpCDD	38.80	8.730e3	7.817e3	4.327e2	4.550e2	0.95	NO	8.877e2	0.66832	0.66832	0.187

Tetra-Furans

	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Yield	Yield %	Yield %	Yield %	Yield %	Yield %
Total Tetra-Furans	21.51	2.491e3	4.416e3	2.273e2	3.016e2	0.75	NO	5.289e2	0.13291	0.13291	0.0316

Penta-Furans function 1

	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Yield	Yield %	Yield %	Yield %	Yield %	Yield %
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Dataset: U:\VG12.PRO\Results\200604R2\200604R2-8.qld

Last Altered: Monday, June 08, 2020 10:09:00 Pacific Daylight Time
Printed: Monday, June 08, 2020 10:10:45 Pacific Daylight Time

Name: 200604R2_8, Date: 05-Jun-2020, Time: 01:23:17, ID: 2000997-03 PDI-061SC-A-05-06-200428 15.16, Description: PDI-061SC-A-05-06-200428

Penta-Furans

RT	m1 Height	m2 Height	m1 Resp	m2 Resp

Hexa-Furans

RT	m1 Height	m2 Height	m1 Resp	m2 Resp

Hepta-Furans

RT	m1 Height	m2 Height	m1 Resp	m2 Resp

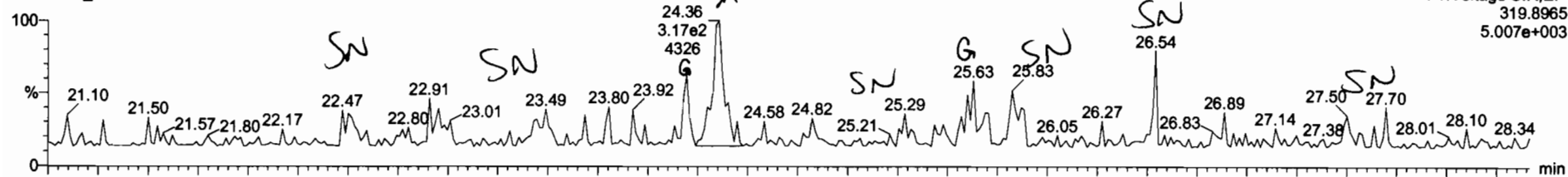
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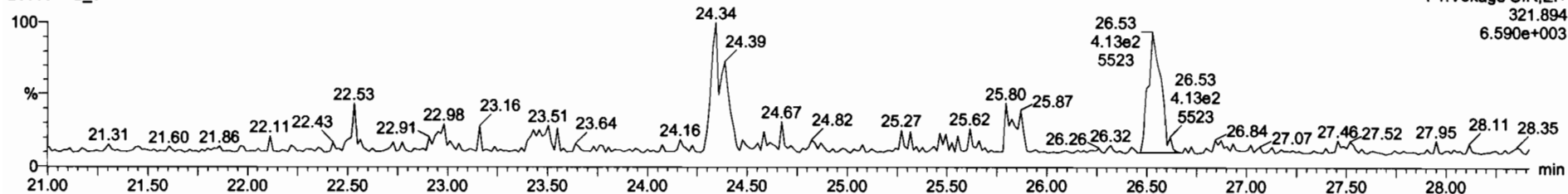
Name: 200604R2_8, Date: 05-Jun-2020, Time: 01:23:17, ID: 2000997-03 PDI-061SC-A-05-06-200428 15.16, Description: PDI-061SC-A-05-06-200428

2,3,7,8-TCDD

200604R2_8

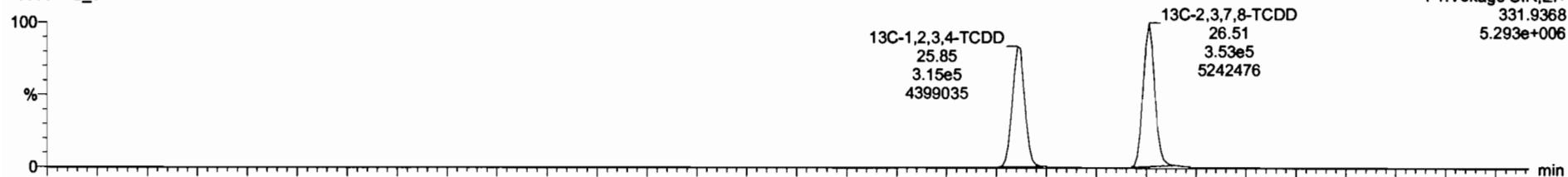


200604R2_8

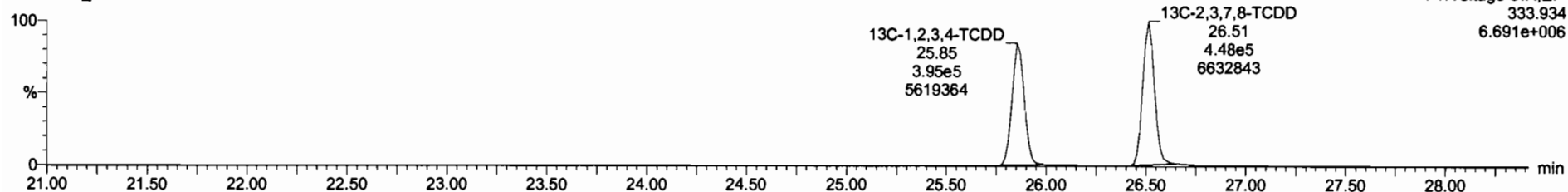


13C-2,3,7,8-TCDD

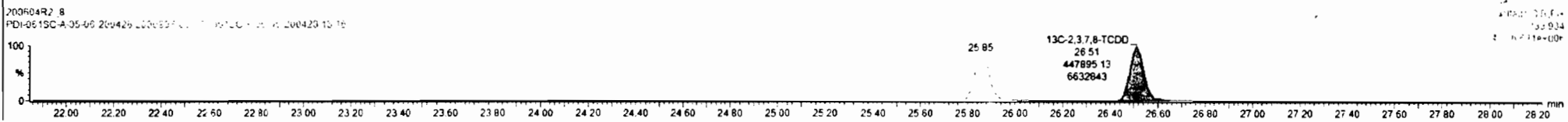
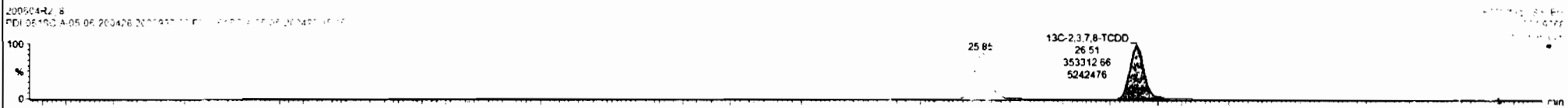
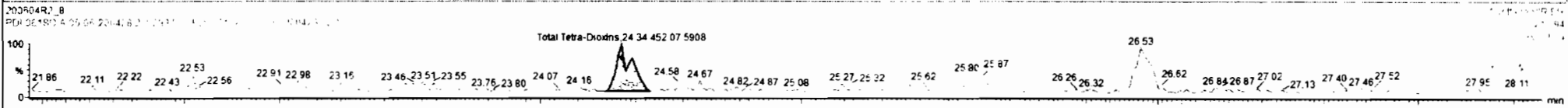
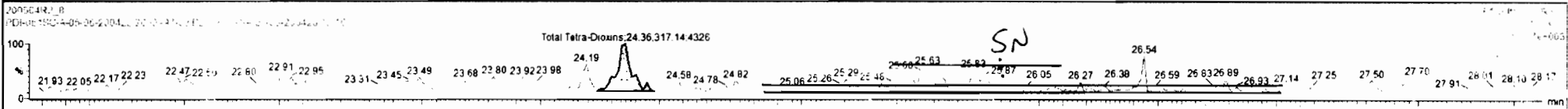
200604R2_8



200604R2_8



Name	Resp	RA	a/y	RF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9081	10.147			0.000		0.0320	0.142
40 Total Penta-Dioxins				0.8923	10.147			0.861		0.105	0.861
41 Total Hexa-Dioxins				0.8639	10.147			1.73		0.187	1.73
42 Total Hepta-Dioxins				0.7510	10.147			0.133		0.0316	0.133
43 Total Tetra-Furans				0.8525	10.147					0.0680	
44 1st Func. Penta-Furans				0.8825	10.147					0.0589	
45 Total Penta-Furans				0.9341	10.147					0.0188	
46 Total Hexa-Furans				0.8734	10.147					0.0318	
47 Total Hepta-Furans											
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											



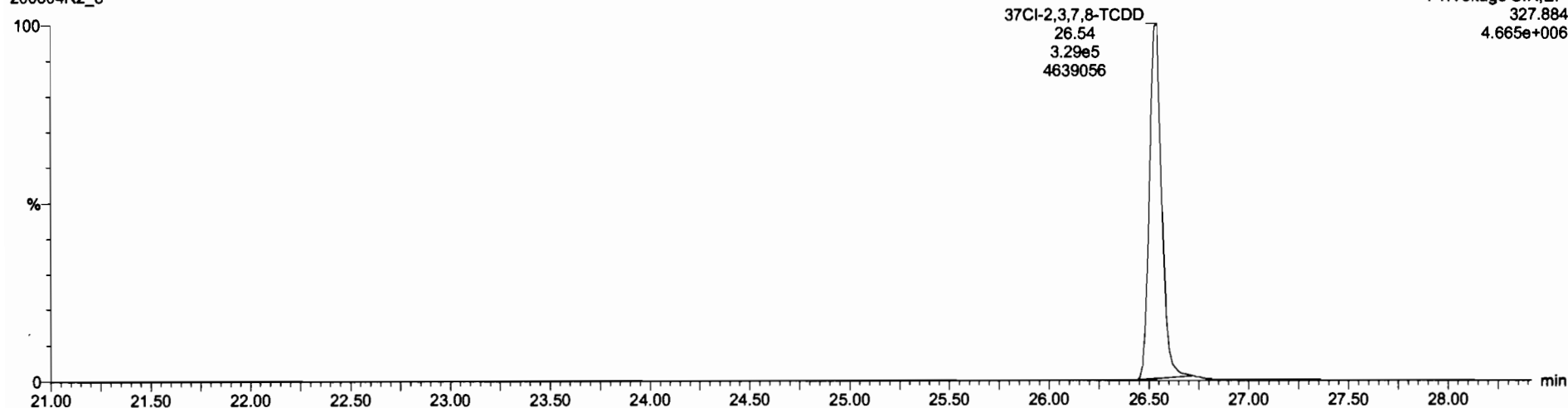
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Name: 200604R2_8, Date: 05-Jun-2020, Time: 01:23:17, ID: 2000997-03 PDI-061SC-A-05-06-200428 15.16, Description: PDI-061SC-A-05-06-200428

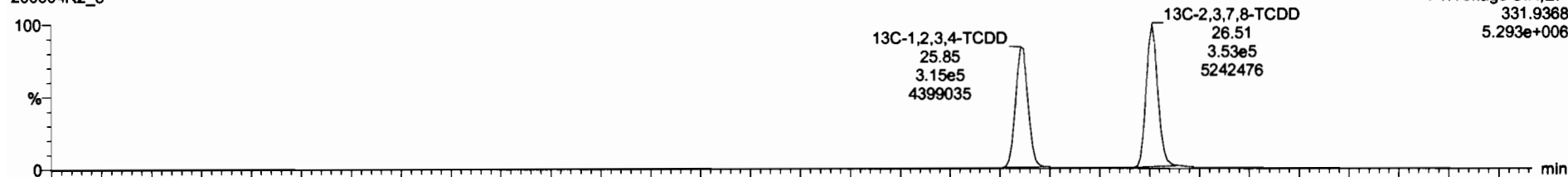
37Cl-2,3,7,8-TCDD

200604R2_8

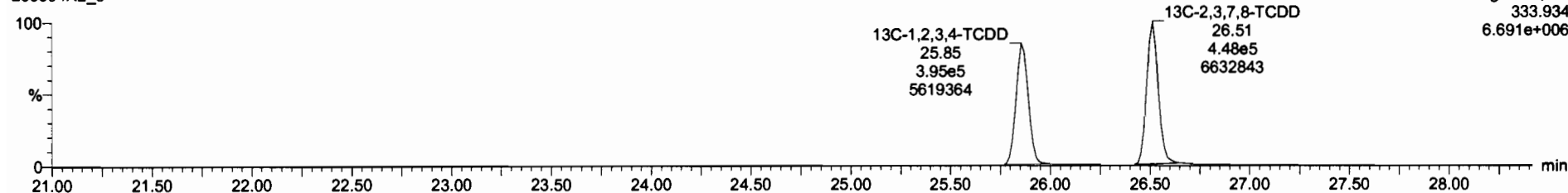


13C-1,2,3,4-TCDD

200604R2_8



200604R2_8



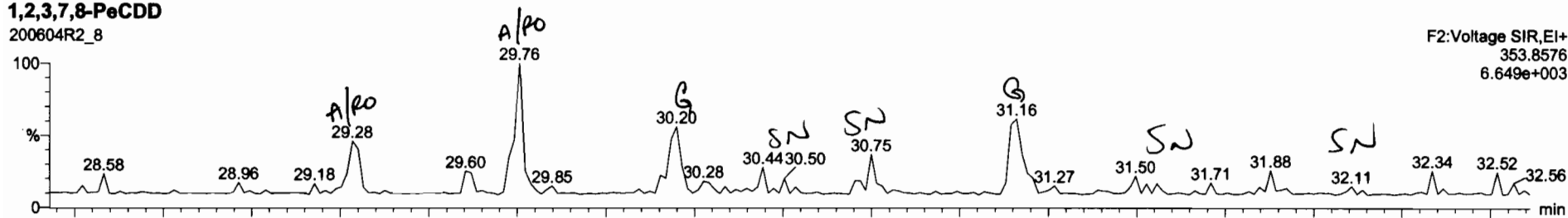
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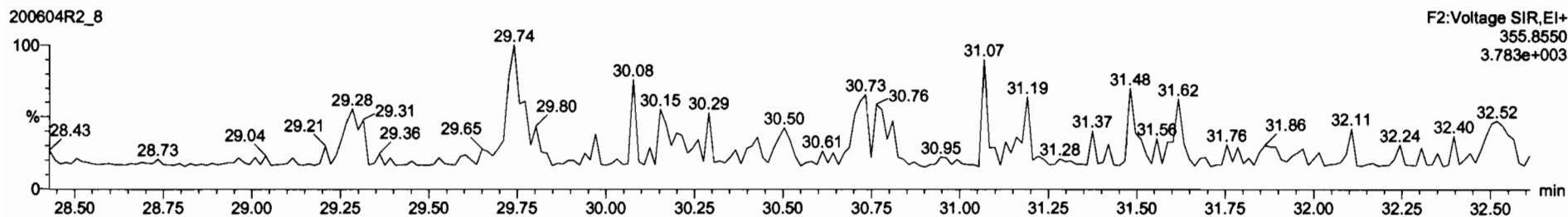
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1,2,3,7,8-PeCDD

200604R2_8

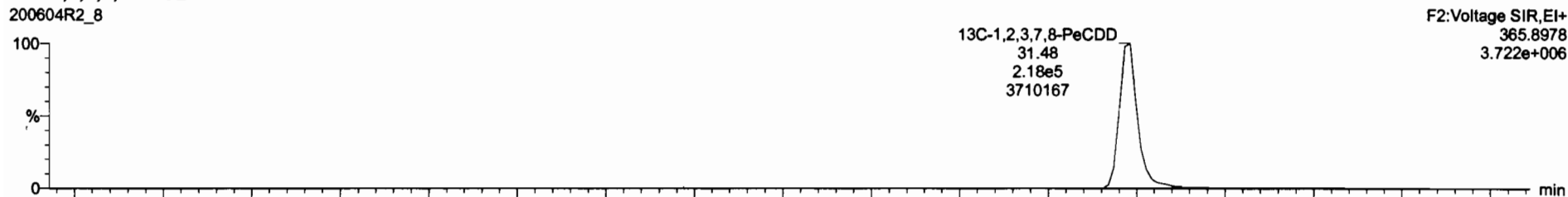


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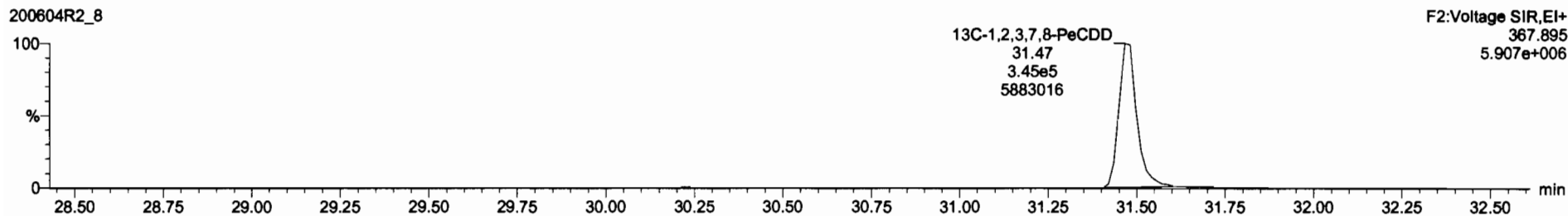


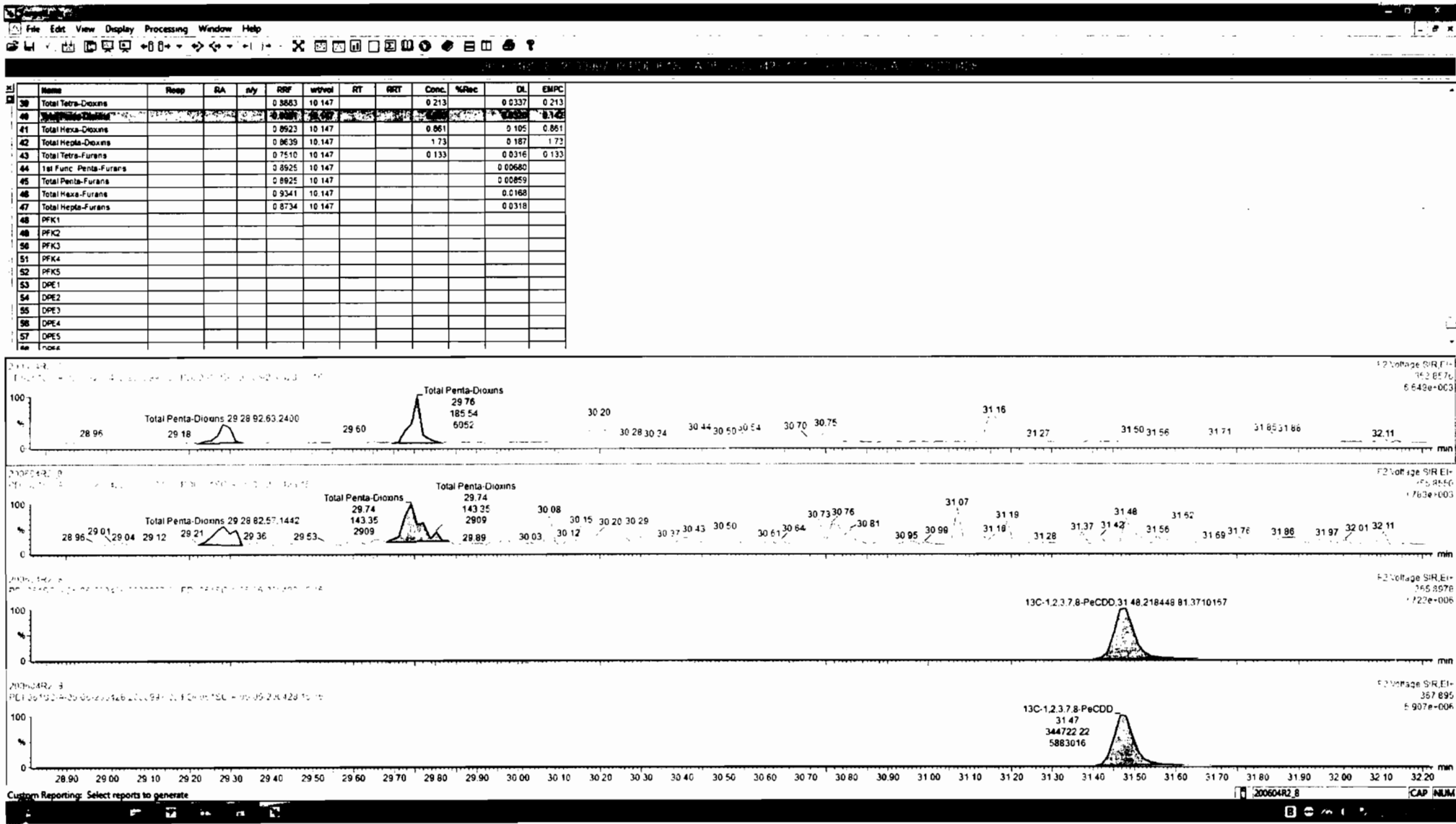
13C-1,2,3,7,8-PeCDD

200604R2_8



200604R2_8





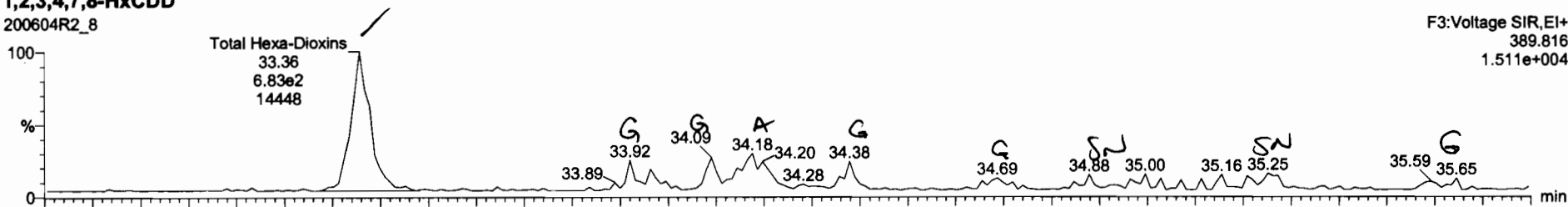
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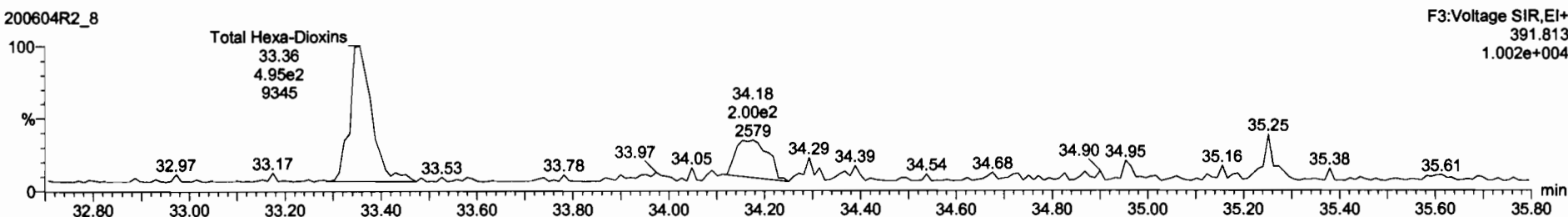
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1,2,3,4,7,8-HxCDD

200604R2_8



200604R2_8

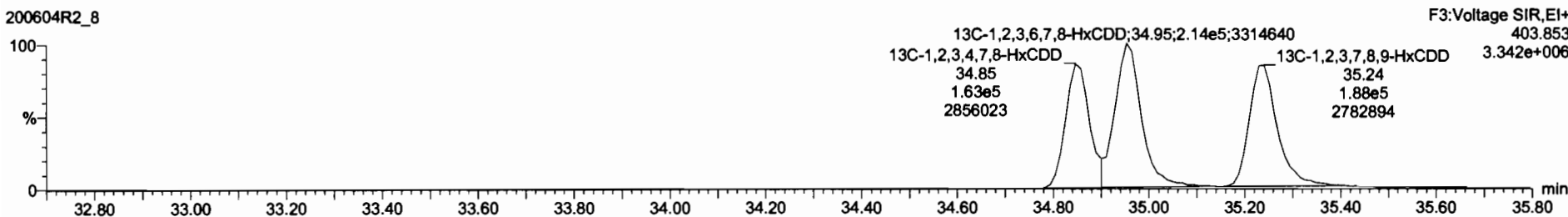


13C-1,2,3,4,7,8-HxCDD

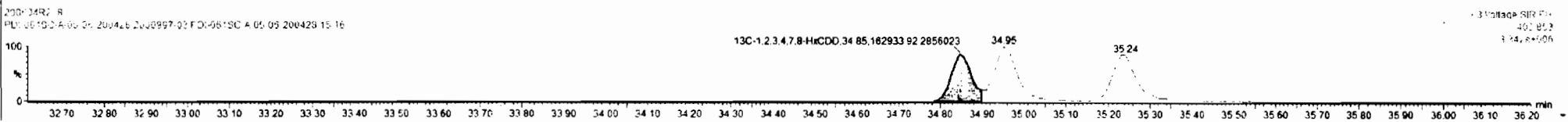
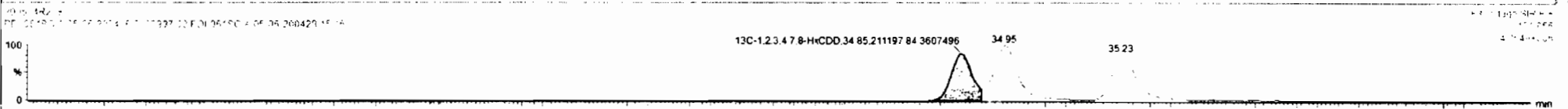
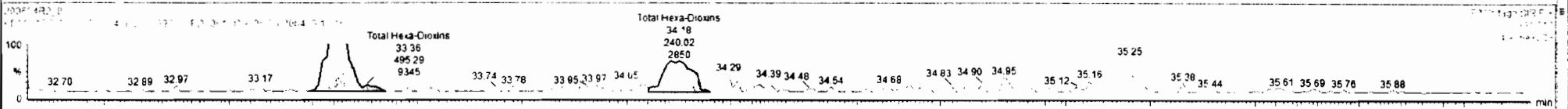
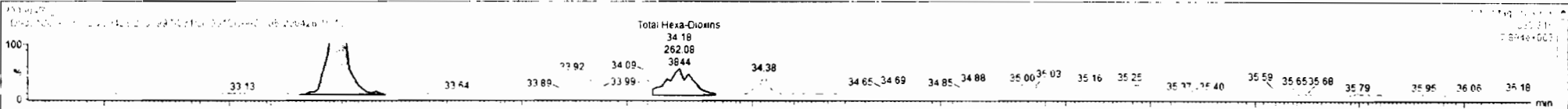
200604R2_8



200604R2_8



Name	Resp	RA	Adj	RRF	wt/wt	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.8683	10.147			0.213	0.0337	0.213	
40 Total Penta-Dioxins				0.9081	10.147			0.000	0.0320	0.142	
41 Total Hexa-Dioxins				0.8625	10.147			0.000	0.1000	0.001	
42 Total Hepta-Dioxins				0.8639	10.147			1.73	0.187	1.73	
43 Total Tetra-Furans				0.7510	10.147			0.133	0.0316	0.133	
44 1st Func. Penta-Furans				0.8925	10.147				0.00680		
45 Total Penta-Furans				0.8925	10.147				0.00855		
46 Total Hexa-Furans				0.9341	10.147				0.0168		
47 Total Hepta-Furans				0.8734	10.147				0.0318		
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
68 Proc											



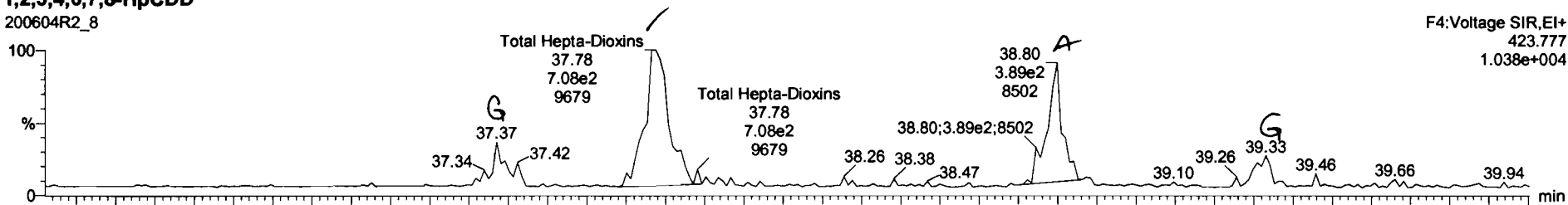
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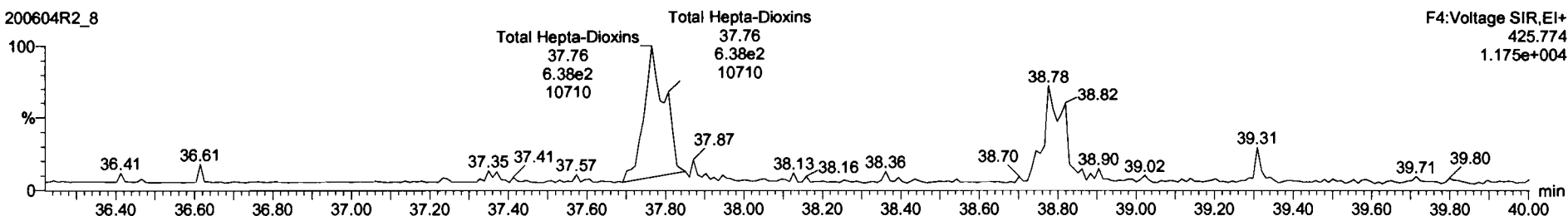
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1,2,3,4,6,7,8-HpCDD

200604R2_8

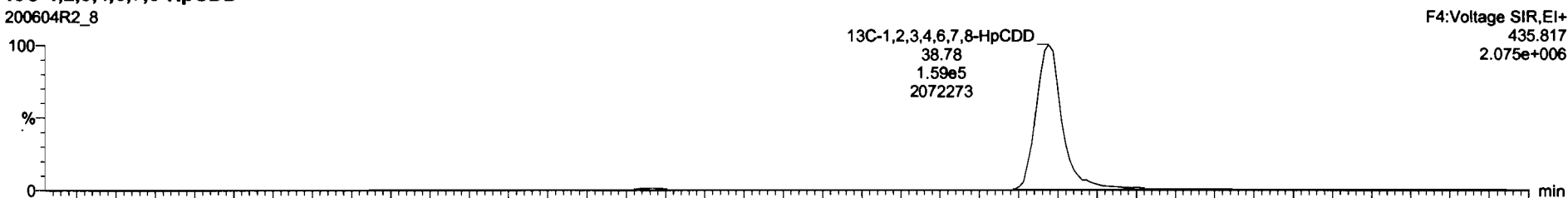


200604R2_8

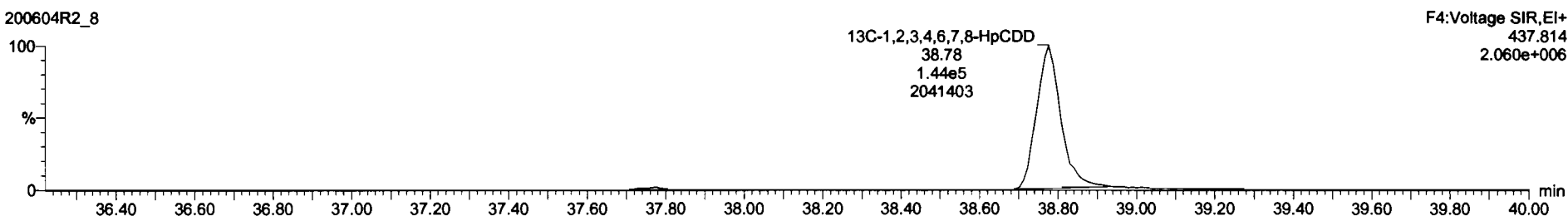


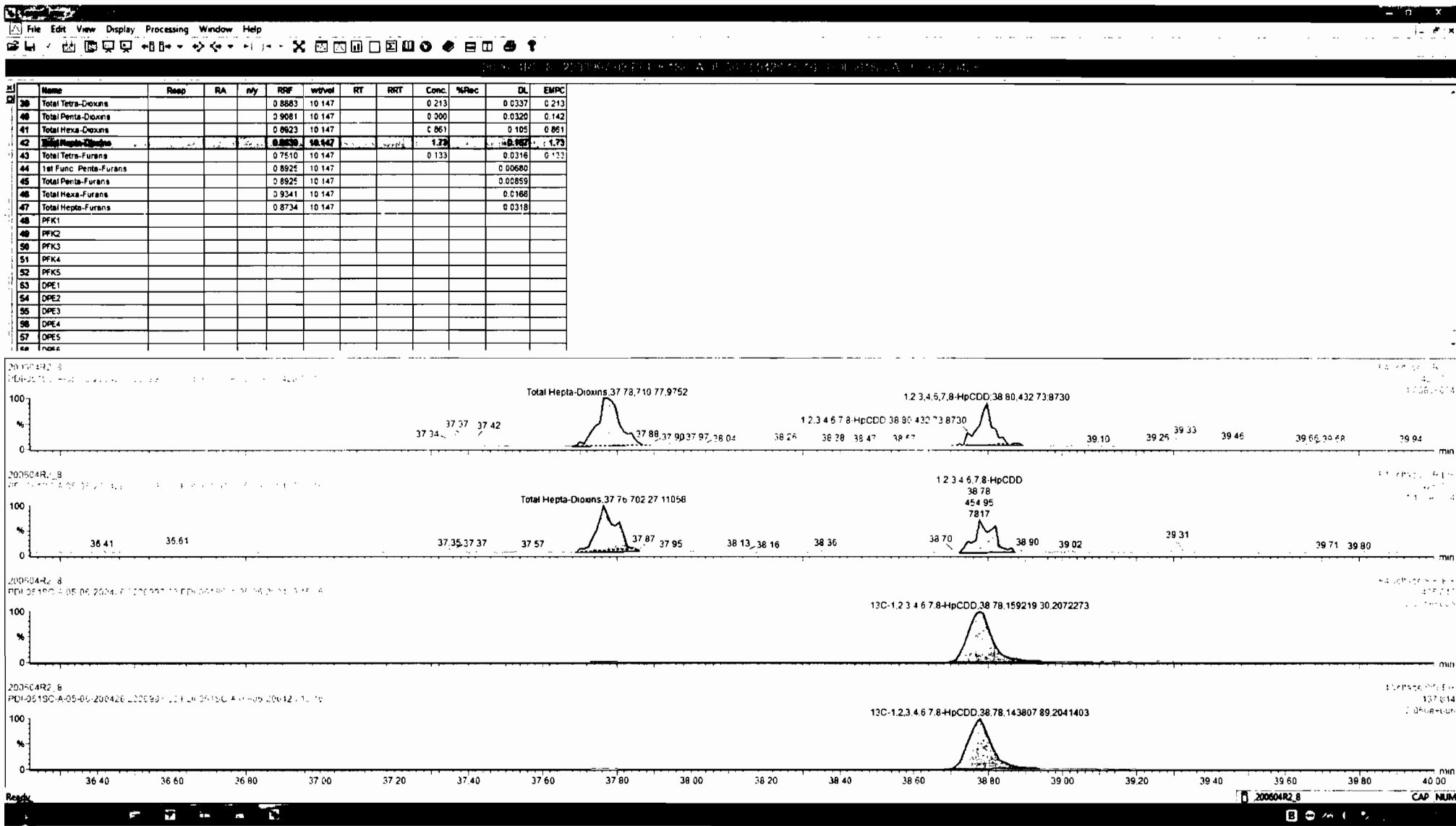
13C-1,2,3,4,6,7,8-HpCDD

200604R2_8



200604R2_8





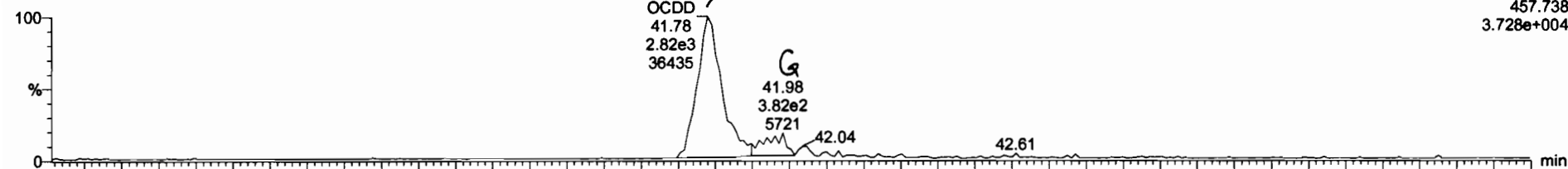
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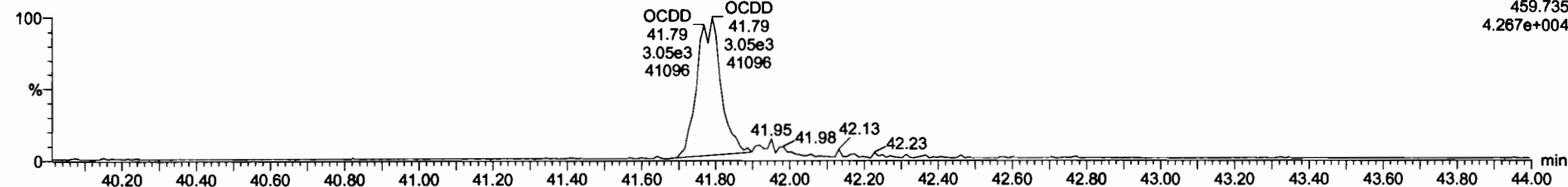
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OCDD

200604R2_8

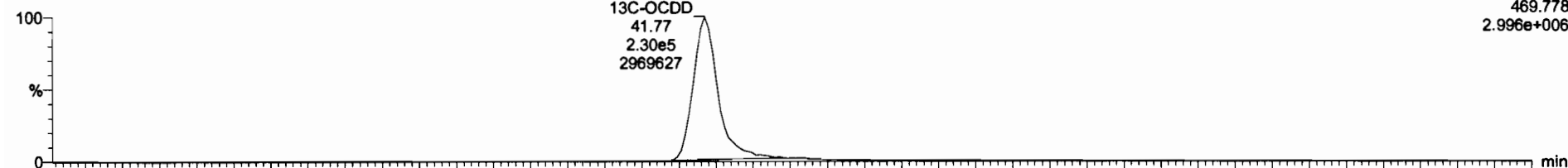


200604R2_8

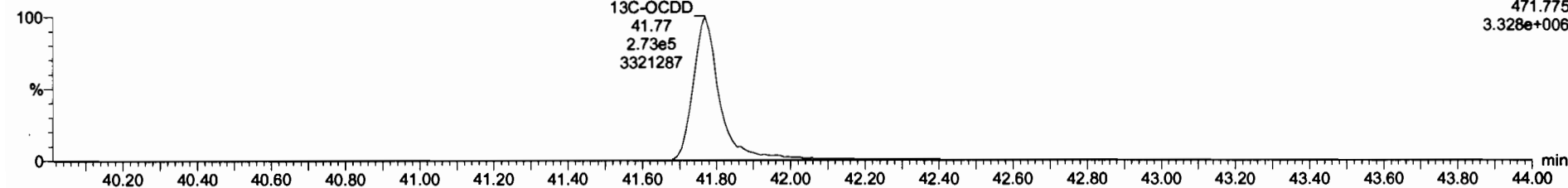


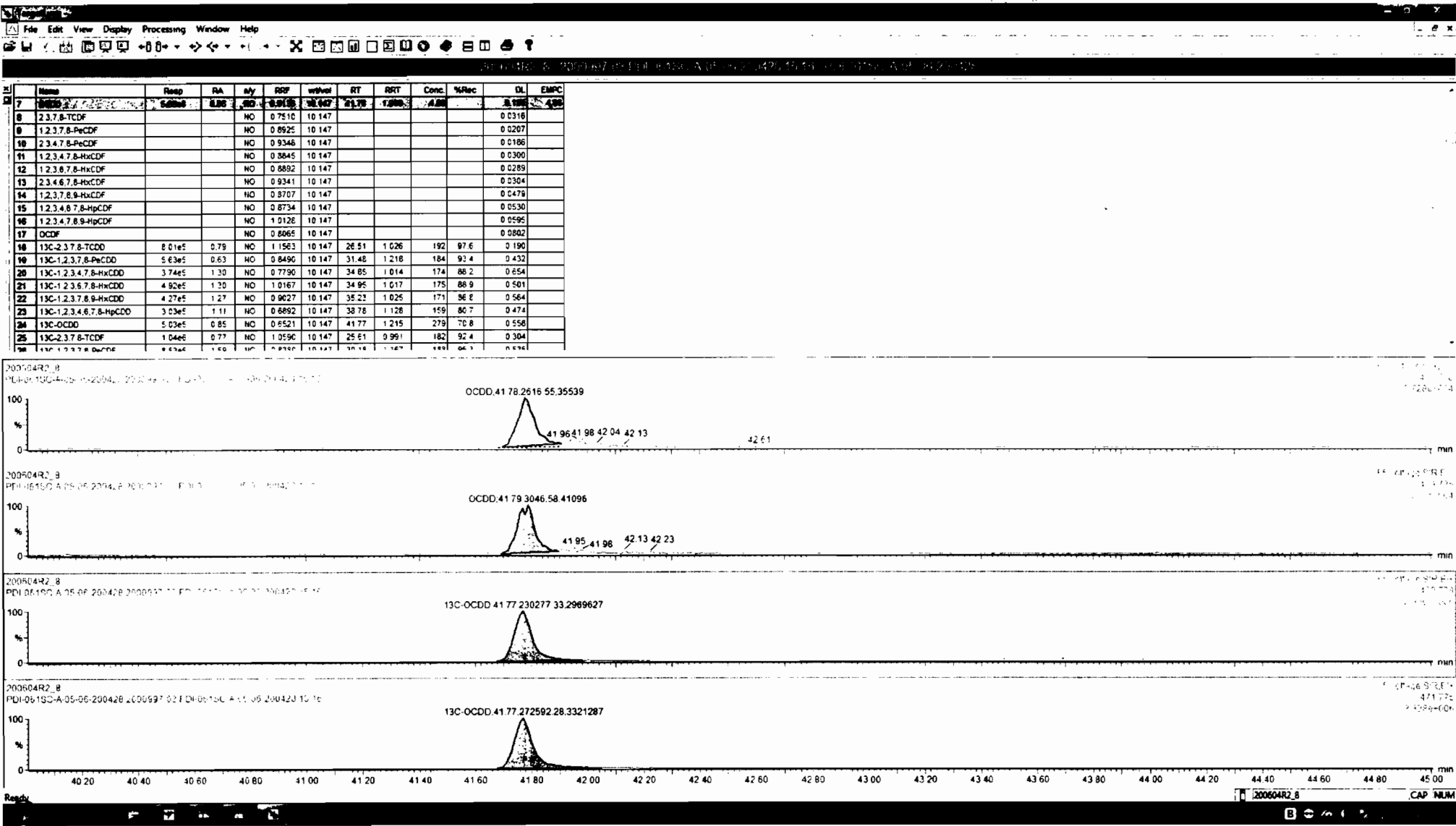
13C-OCDD

200604R2_8



200604R2_8



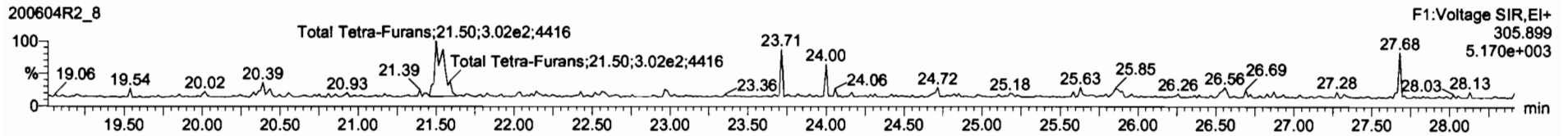
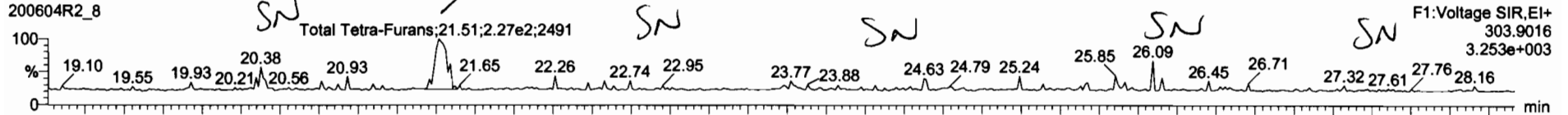


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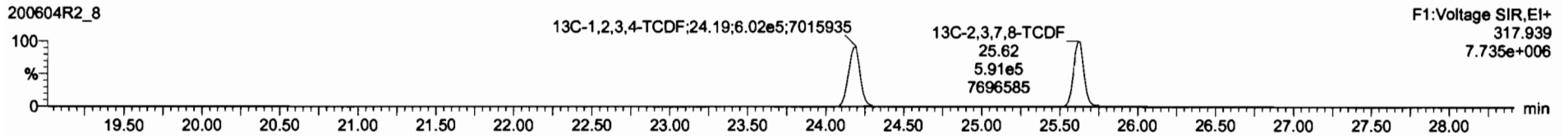
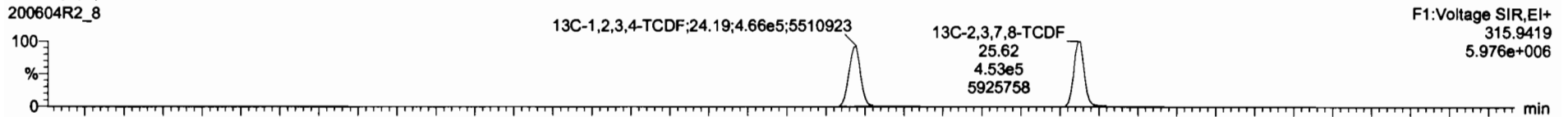
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Name: 200604R2_8, Date: 05-Jun-2020, Time: 01:23:17, ID: 2000997-03 PDI-061SC-A-05-06-200428 15.16, Description: PDI-061SC-A-05-06-200428

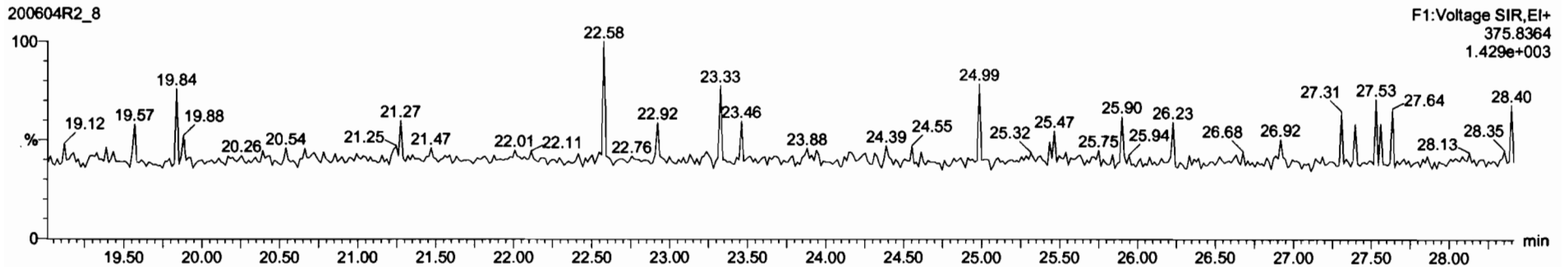
2,3,7,8-TCDF



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



DPE1



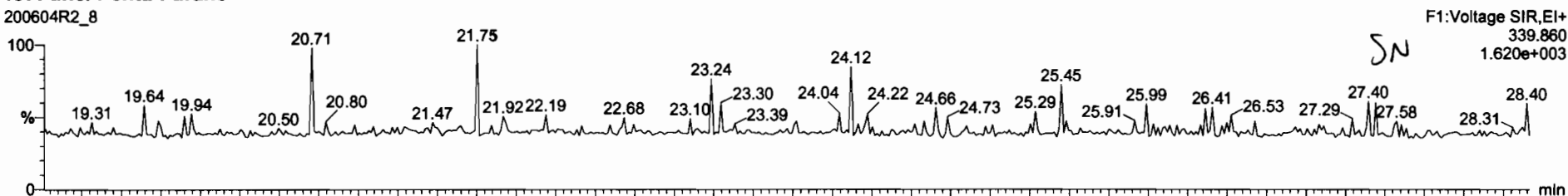
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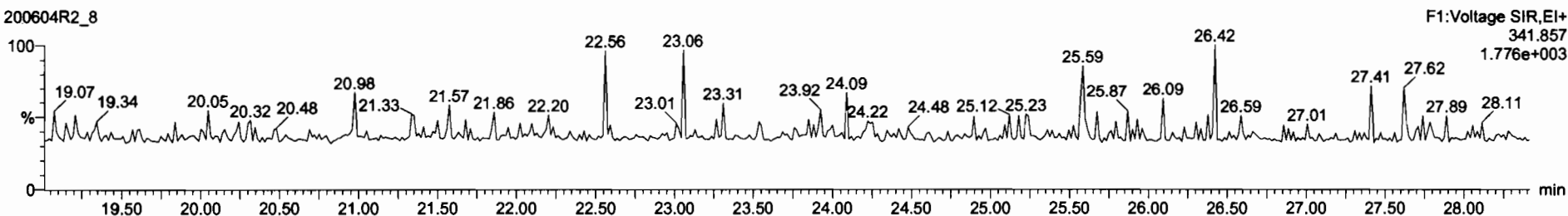
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1st Func. Penta-Furans

200604R2_8

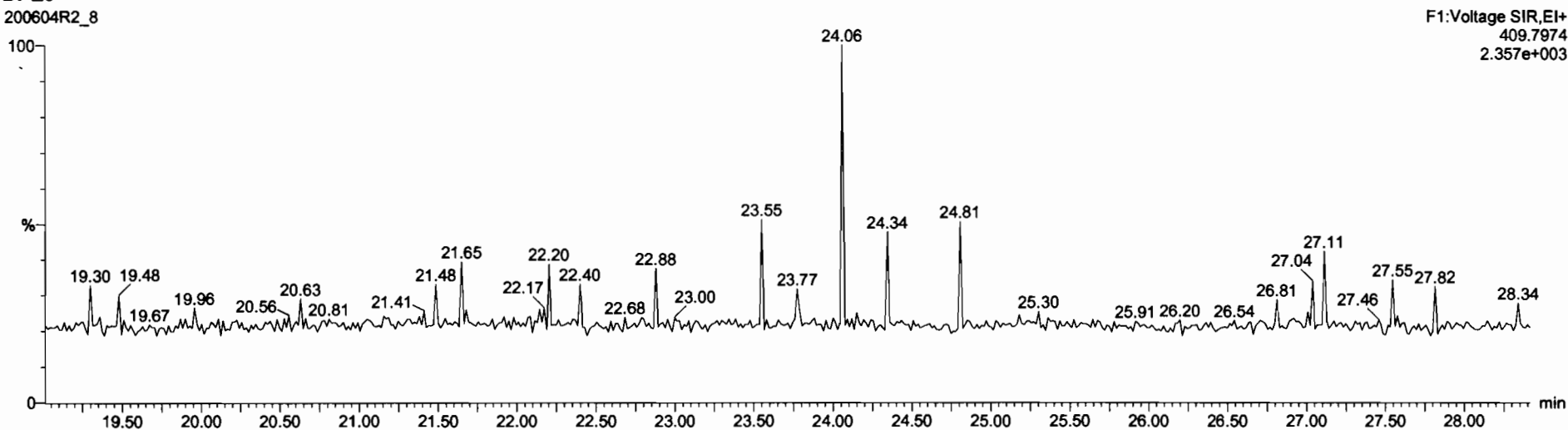


200604R2_8



DPE6

200604R2_8



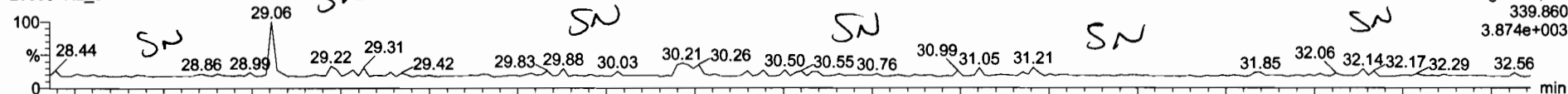
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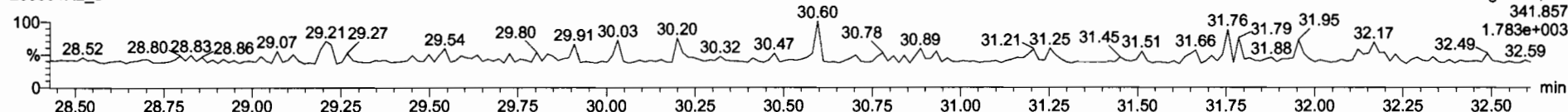
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1,2,3,7,8-PeCDF

200604R2_8

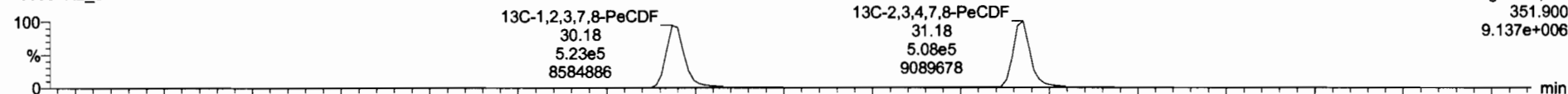


200604R2_8

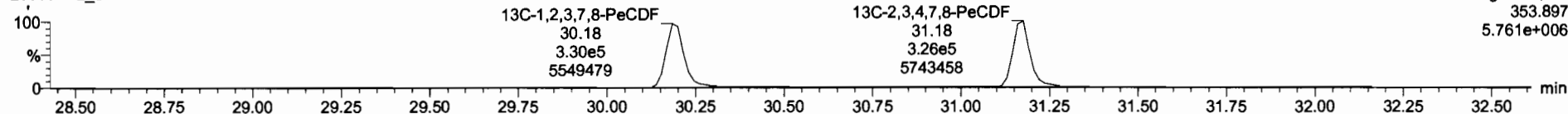


13C-1,2,3,7,8-PeCDF

200604R2_8

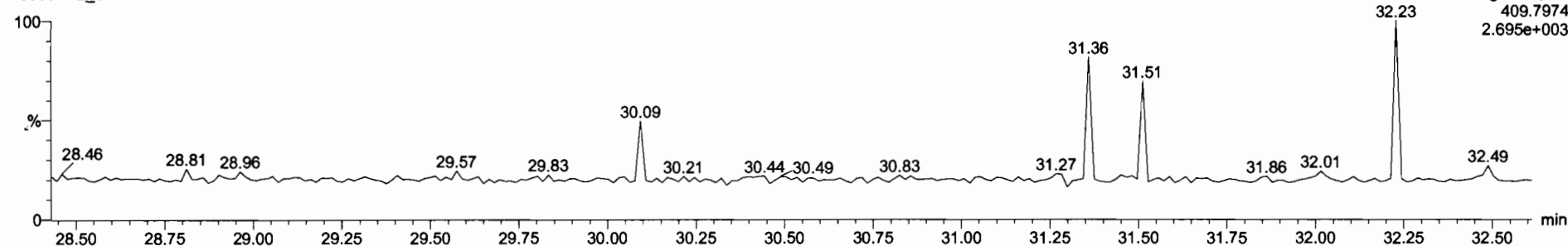


200604R2_8



DPE2

200604R2_8

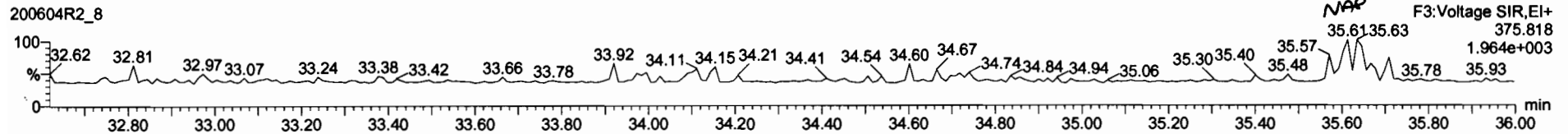
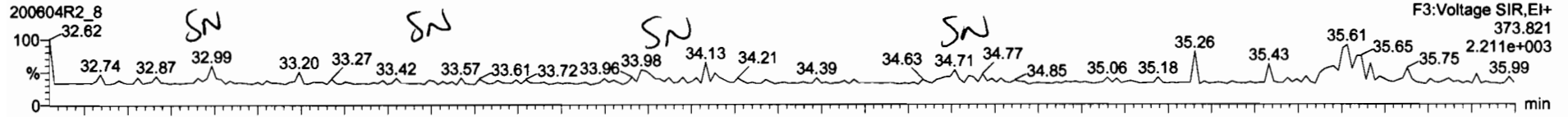


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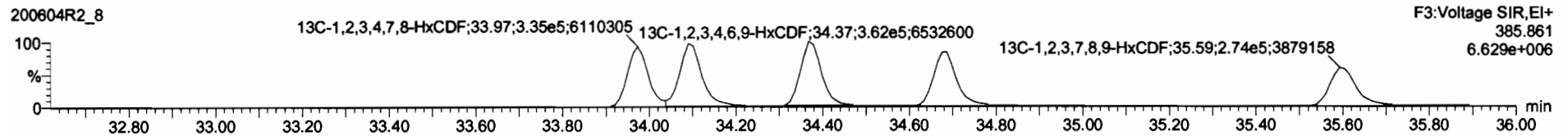
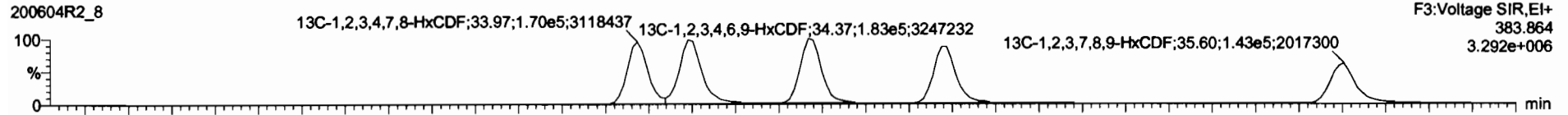
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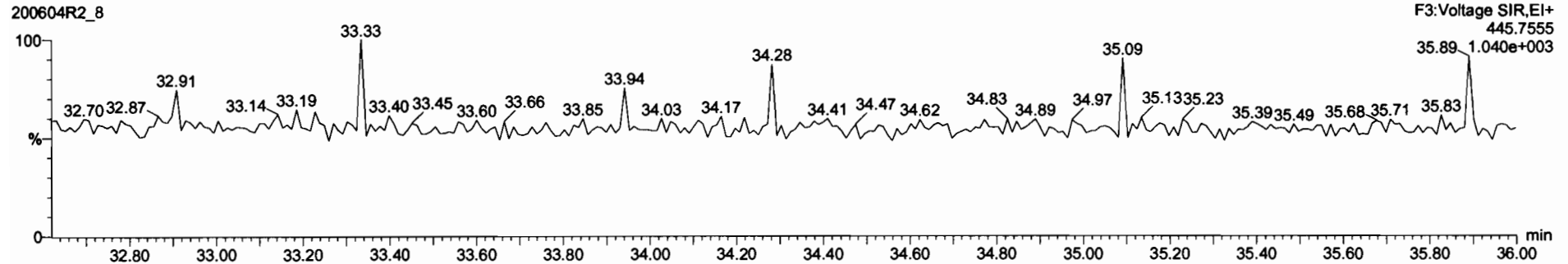
1,2,3,4,7,8-HxCDF



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



DPE3

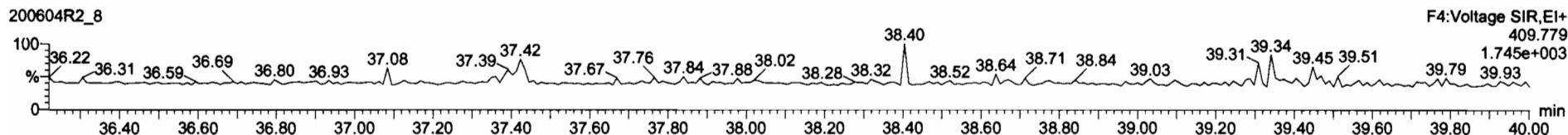
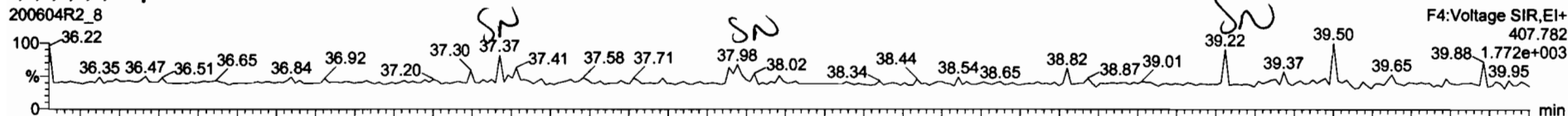


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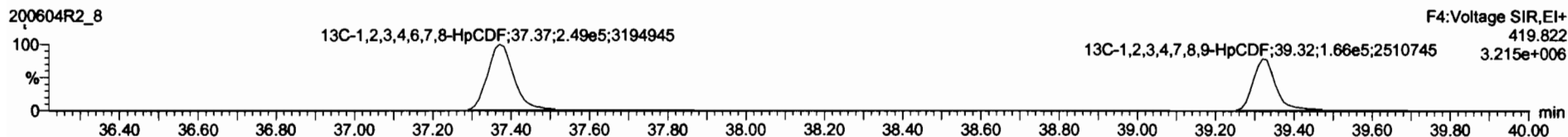
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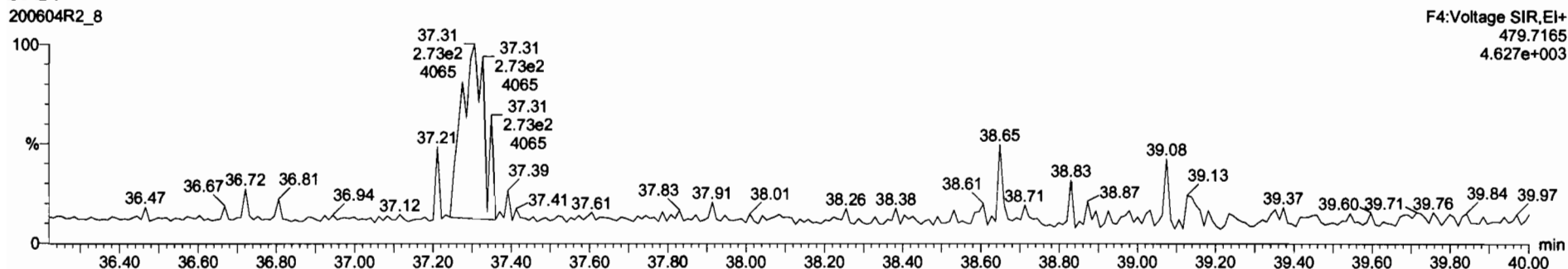
1,2,3,4,6,7,8-HpCDF



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



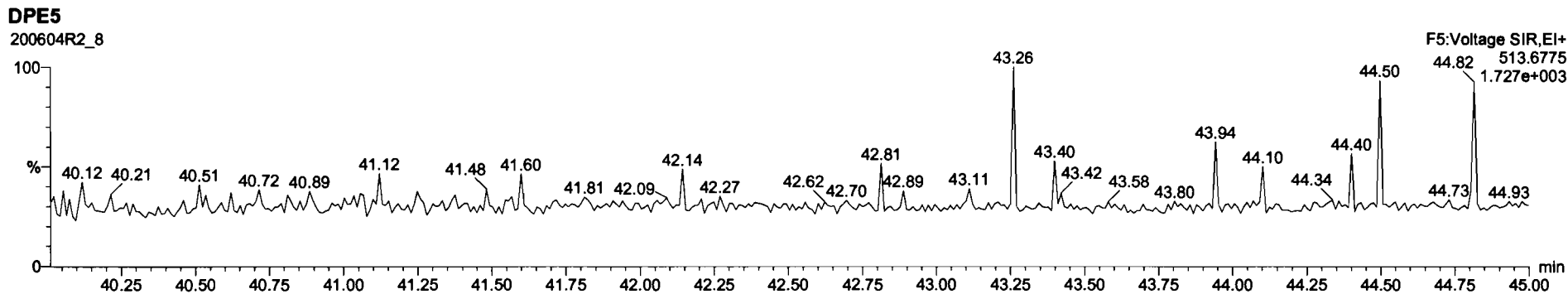
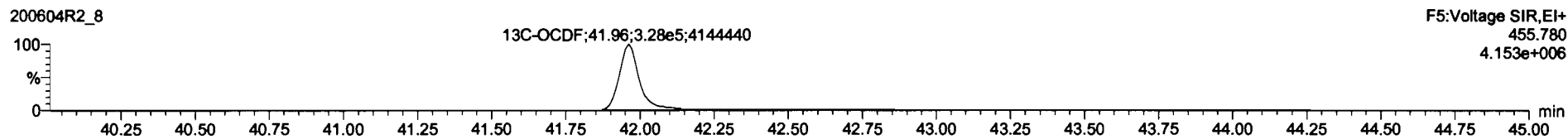
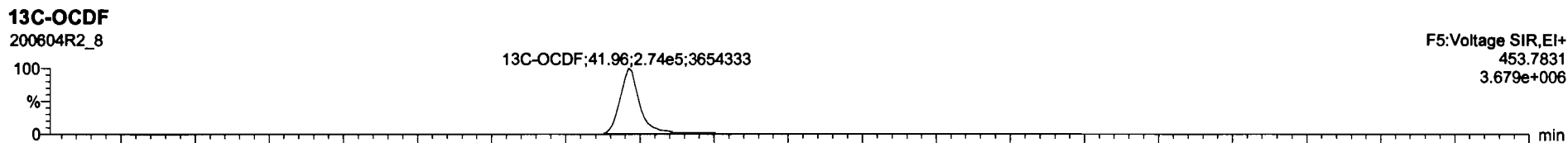
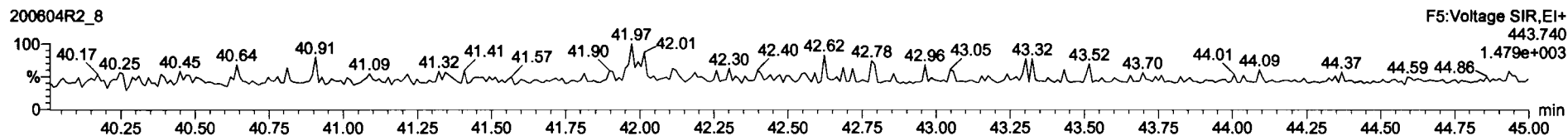
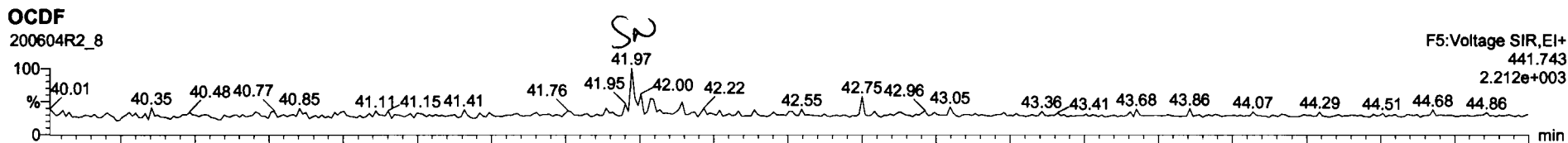
DPE4



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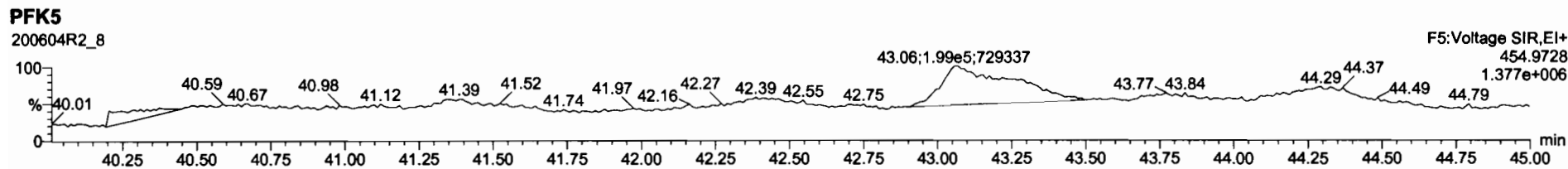
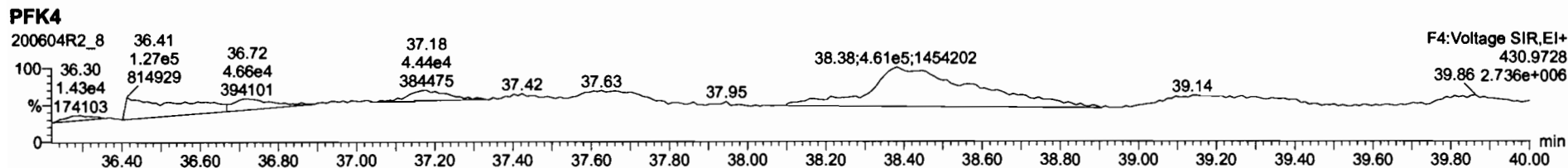
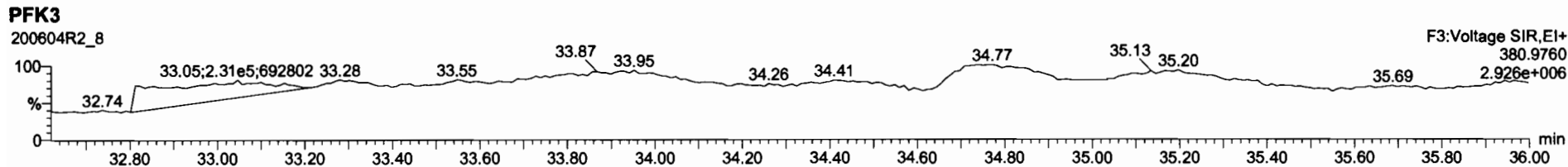
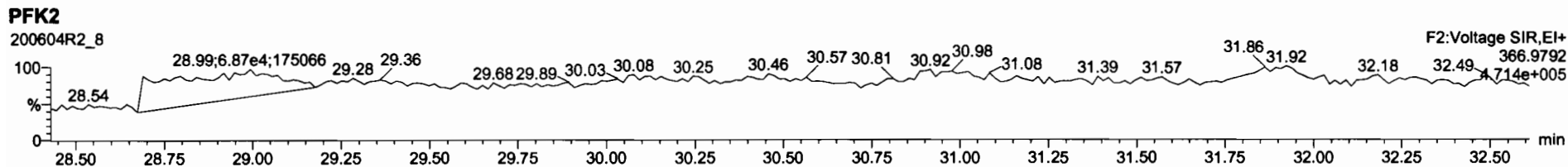
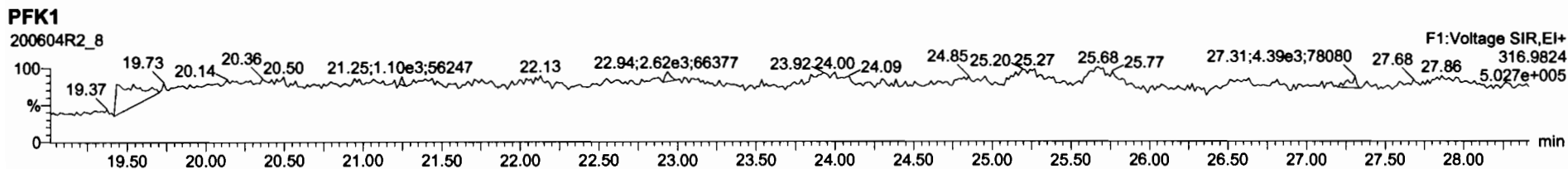
Name: 200604R2_8, Date: 05-Jun-2020, Time: 01:23:17, ID: 2000997-03 PDI-061SC-A-05-06-200428 15.16, Description: PDI-061SC-A-05-06-200428



Dataset: Untitled

Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_8, Date: 05-Jun-2020, Time: 01:23:17, ID: 2000997-03 PDI-061SC-A-05-06-200428 15.16, Description: PDI-061SC-A-05-06-200428



Dataset: U:\VG12.PRO\Results\200604R2\200604R2-9.qld

Last Altered: Monday, June 08, 2020 09:57:05 Pacific Daylight Time
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CEB 06/08/2020

CT 07/08/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\cb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R2_9, Date: 05-Jun-2020, Time: 02:09:33, ID: 2000997-04 PDI-061SC-A-06-07-200428 15, Description: PDI-061SC-A-06-07-200428

Peak	Retention	Area	Height	Integration	Response	Concentration	Response	Concentration	Response	Concentration	Response	Concentration	
1	2,3,7,8-TCDD			NO	0.888	10.128	26.531	1.001				0.0464	
2	1,2,3,7,8-PeCDD			NO	0.908	10.128	31.488	1.001				0.0550	
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.128	34.846	1.000				0.109	
4	1,2,3,6,7,8-HxCDD			NO	0.892	10.128	34.943	1.000				0.110	
5	1,2,3,7,8,9-HxCDD			NO	0.887	10.128	35.231	1.000				0.135	
6	1,2,3,4,6,7,8-HpCDD	2.06e2	1.25	YES	0.864	10.128	38.768	38.77	1.000	1.000	0.15303	0.0780	0.139
7	OCDD	1.27e3	0.98	NO	0.914	10.128	41.738	41.75	1.000	1.000	1.0903	0.149	1.09
8	2,3,7,8-TCDF			NO	0.751	10.128	25.627	1.001				0.0222	
9	1,2,3,7,8-PeCDF			NO	0.893	10.128	30.205	1.001				0.0246	
10	2,3,4,7,8-PeCDF			NO	0.935	10.128	31.192	1.001				0.0219	
11	1,2,3,4,7,8-HxCDF			NO	0.884	10.128	33.952	1.000				0.0418	
12	1,2,3,6,7,8-HxCDF			NO	0.889	10.128	34.090	1.000				0.0386	
13	2,3,4,6,7,8-HxCDF			NO	0.934	10.128	34.701	1.001				0.0411	
14	1,2,3,7,8,9-HxCDF	7.45e1	1.24	NO	0.871	10.128	35.582	35.58	1.000	1.000	0.041260	0.0252	0.0413
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	10.128	37.387	1.001				0.0341	
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.128	39.299	1.000				0.0371	
17	OCDF			NO	0.806	10.128	41.940	1.000				0.0684	
18	13C-2,3,7,8-TCDD	8.05e5	0.77	NO	1.16	10.128	26.522	26.50	1.026	1.026	197.59	100	0.209
19	13C-1,2,3,7,8-PeCDD	5.53e5	0.62	NO	0.849	10.128	31.711	31.47	1.227	1.218	184.95	93.7	0.387
20	13C-1,2,3,4,7,8-HxCDD	3.81e5	1.28	NO	0.779	10.128	34.841	34.84	1.014	1.014	174.02	88.1	0.620
21	13C-1,2,3,6,7,8-HxCDD	4.66e5	1.26	NO	1.02	10.128	34.955	34.94	1.017	1.017	163.18	82.6	0.475
22	13C-1,2,3,7,8,9-HxCDD	4.16e5	1.24	NO	0.903	10.128	35.226	35.22	1.025	1.025	164.26	83.2	0.535
23	13C-1,2,3,4,6,7,8-HpCDD	3.05e5	1.06	NO	0.689	10.128	38.751	38.76	1.128	1.128	157.70	79.9	0.457
24	13C-OCDD	5.02e5	0.89	NO	0.652	10.128	41.775	41.74	1.216	1.215	274.34	69.5	0.797
25	13C-2,3,7,8-TCDF	9.98e5	0.76	NO	1.06	10.128	25.564	25.60	0.989	0.991	180.58	91.4	0.239
26	13C-1,2,3,7,8-PeCDF	8.42e5	1.59	NO	0.838	10.128	30.093	30.18	1.165	1.168	192.44	97.5	0.637
27	13C-2,3,4,7,8-PeCDF	8.22e5	1.59	NO	0.817	10.128	31.047	31.16	1.202	1.206	192.83	97.6	0.654
28	13C-1,2,3,4,7,8-HxCDF	5.01e5	0.50	NO	1.01	10.128	33.972	33.95	0.989	0.988	177.08	89.7	0.531
29	13C-1,2,3,6,7,8-HxCDF	5.75e5	0.51	NO	1.17	10.128	34.096	34.08	0.992	0.992	175.48	88.9	0.459
30	13C-2,3,4,6,7,8-HxCDF	5.14e5	0.49	NO	1.02	10.128	34.670	34.67	1.009	1.009	179.27	90.8	0.524
31	13C-1,2,3,7,8,9-HxCDF	4.09e5	0.50	NO	0.860	10.128	35.570	35.58	1.035	1.036	169.57	85.9	0.623

Dataset: U:\VG12.PRO\Results\200604R2\200604R2-9.qld

Last Altered: Monday, June 08, 2020 09:57:05 Pacific Daylight Time

Printed: Monday, June 08, 2020 09:57:49 Pacific Daylight Time

Name: 200604R2_9, Date: 05-Jun-2020, Time: 02:09:33, ID: 2000997-04 PDI-061SC-A-06-07-200428 15, Description: PDI-061SC-A-06-07-200428

32	13C-1,2,3,4,6,7,8-HpCDF	3.58e5	0.43	NO	0.774	10.128	37.319	37.35	1.086	1.087	164.65	83.4	0.569	
33	13C-1,2,3,4,7,8,9-HpCDF	2.35e5	0.43	NO	0.521	10.128	39.349	39.30	1.145	1.144	160.87	81.5	0.846	
34	13C-OCDF	6.03e5	0.88	NO	0.746	10.128	41.946	41.94	1.221	1.221	287.77	72.9	0.629	
35	37Cl-2,3,7,8-TCDD	3.12e5			1.04	10.128	26.553	26.53	1.028	1.027	85.408	108	0.0921	
36	13C-1,2,3,4-TCDD	6.96e5	0.79	NO	1.00	10.128	25.890	25.84	1.000	1.000	197.47	100	0.241	
37	13C-1,2,3,4-TCDF	1.03e6	0.79	NO	1.00	10.128	24.360	24.16	1.000	1.000	197.47	100	0.253	
38	13C-1,2,3,4,6,9-HxCDF	5.55e5	0.50	NO	1.00	10.128	34.420	34.36	1.000	1.000	197.47	100	0.535	
39	Total Tetra-Dioxins				0.888	10.128	24.620		0.000		0.00000		0.0235	0.0579
40	Total Penta-Dioxins				0.908	10.128	29.960		0.000				0.0245	
41	Total Hexa-Dioxins				0.892	10.128	33.635		0.000		0.00000		0.0811	0.132
42	Total Hepta-Dioxins				0.864	10.128	37.640		0.000		0.00000		0.0780	0.329
43	Total Tetra-Furans				0.751	10.128	23.610		0.000		0.050891		0.0104	0.0509
44	1st Func. Penta-Furans				0.893	10.128	27.580		0.000				0.00822	
45	Total Penta-Furans				0.893	10.128	29.275		0.000				0.00892	
46	Total Hexa-Furans				0.934	10.128	33.555		0.000		0.058205		0.0177	0.0582
47	Total Hepta-Furans				0.873	10.128	37.835		0.000				0.0182	

Dataset: U:\VG12.PRO\Results\200604R2\200604R2-9.qld

Last Altered: Monday, June 08, 2020 09:57:05 Pacific Daylight Time
Printed: Monday, June 08, 2020 09:57:49 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R2_9, Date: 05-Jun-2020, Time: 02:09:33, ID: 2000997-04 PDI-061SC-A-06-07-200428 15, Description: PDI-061SC-A-06-07-200428

Tetra-Dioxins

RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Flags	Yield	Yield	Yield	Yield	
Total Tetra-Dioxins	24.36	1.526e3	2.950e3	9.116e1	1.483e2	0.61	YES	0.000e0	0.00000	0.057854	0.0235

Penta-Dioxins

RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Flags	Yield	Yield	Yield	Yield
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Hexa-Dioxins

RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Flags	Yield	Yield	Yield	Yield	
Total Hexa-Dioxins	33.35	4.828e3	2.962e3	2.201e2	1.124e2	1.96	YES	0.000e0	0.00000	0.13237	0.0811

Hepta-Dioxins

RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Flags	Yield	Yield	Yield	Yield	
Total Hepta-Dioxins	37.75	2.392e3	1.796e3	1.577e2	1.239e2	1.27	YES	0.000e0	0.00000	0.18936	0.0780
1,2,3,4,6,7,8-HpCDD	38.77	2.032e3	1.926e3	1.143e2	9.121e1	1.25	YES	2.055e2	0.00000	0.13937	0.0780

Tetra-Furans

RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Flags	Yield	Yield	Yield	Yield	
Total Tetra-Furans	21.51	8.510e2	1.999e3	8.041e1	1.127e2	0.71	NO	1.931e2	0.050891	0.050891	0.0104

Penta-Furans function 1

RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Flags	Yield	Yield	Yield	Yield
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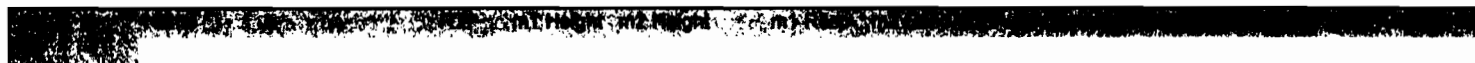
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Name: 200604R2_9, Date: 05-Jun-2020, Time: 02:09:33, ID: 2000997-04 PDI-061SC-A-06-07-200428 15, Description: PDI-061SC-A-06-07-200428


Penta-Furans



Hexa-Furans

Compound	Area	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	NO	Factor	Conc	Conc	Conc
1,2,3,7,8,9-HxCDF	35.58	2.121e3	1.228e3	4.127e1	3.319e1	1.24	NO	7.446e1	0.041260	0.041260	0.0252
Total Hexa-Furans	35.61	8.940e2	4.040e2	2.339e1	1.669e1	1.40	NO	4.007e1	0.016945	0.016945	0.0177

Hepta-Furans



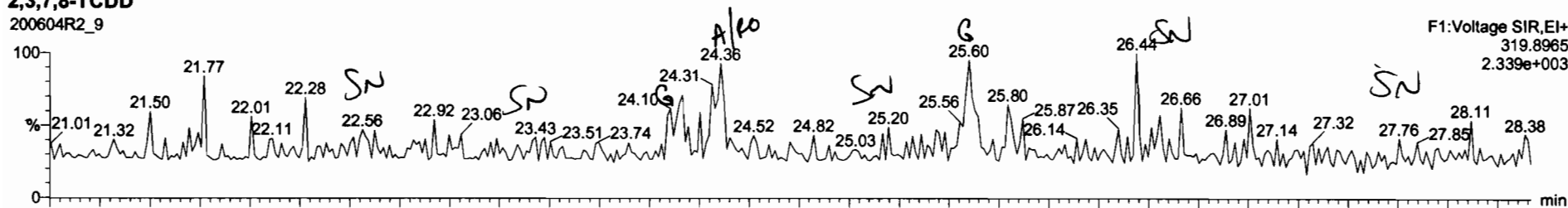
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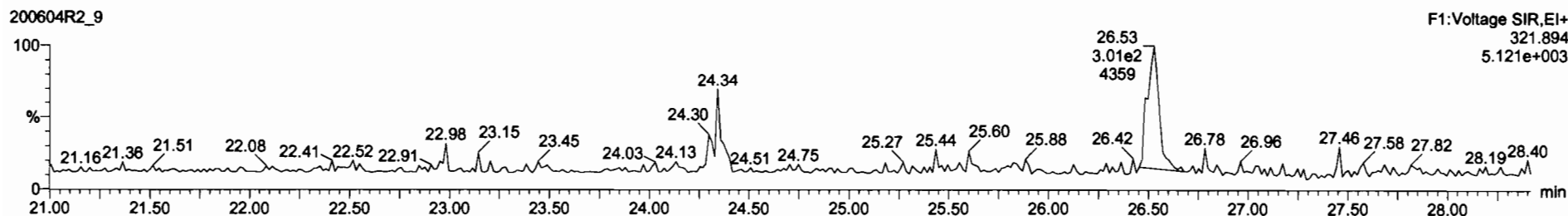
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2,3,7,8-TCDD

200604R2_9

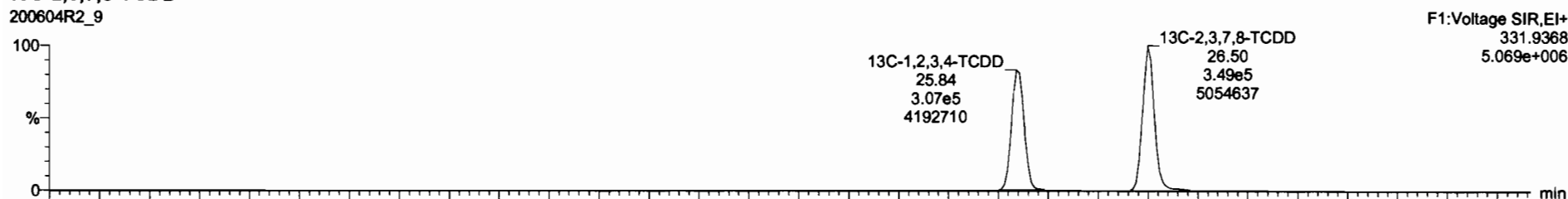


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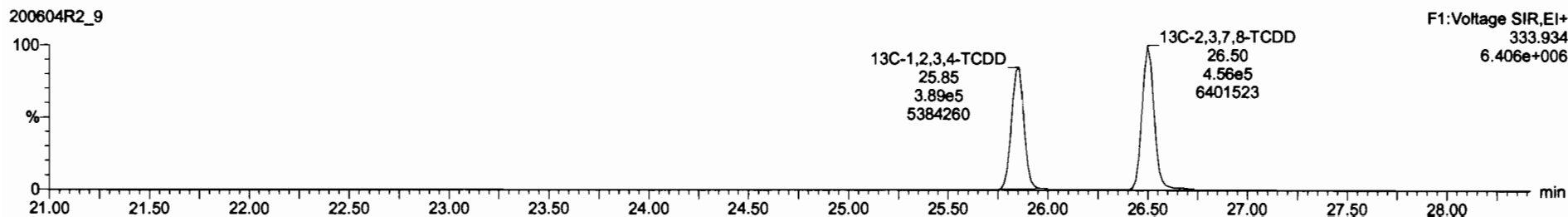


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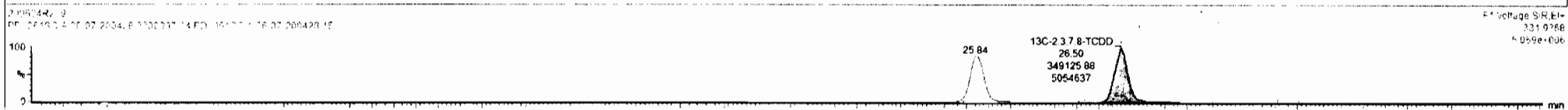
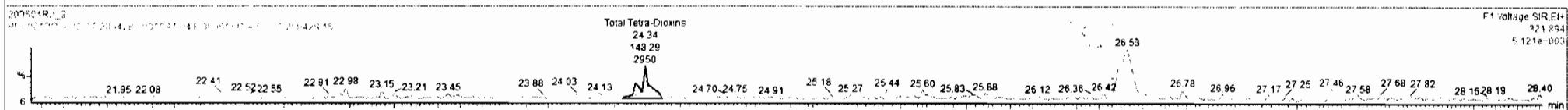
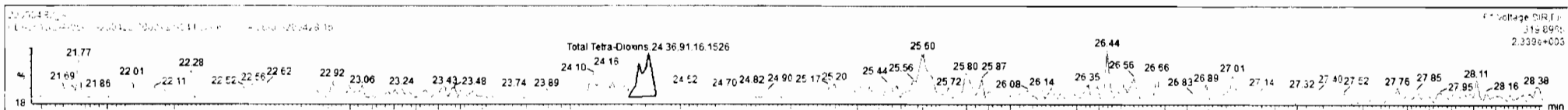


200604R2_9



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Name	Resp	RA	My	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Penta-Dioxins				0.8923						0.0245	0.0510
40 Total Penta-Dioxins				0.9081	10.128					0.0245	0.0510
41 Total Hexa-Dioxins				0.8923	10.128			0.000		0.0811	0.132
42 Total Hepta-Dioxins				0.8639	10.128			0.000		0.0780	0.329
43 Total Tetra-Furans				0.7510	10.128			0.0509		0.0104	0.0510
44 1st Func. Penta-Furans				0.8925	10.128					0.00822	
45 Total Penta-Furans				0.8925	10.128					0.00892	
46 Total Hexa-Furans				0.9341	10.128			0.0582		0.0177	0.0580
47 Total Hepta-Furans				0.8734	10.128					0.0182	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 INDEX											



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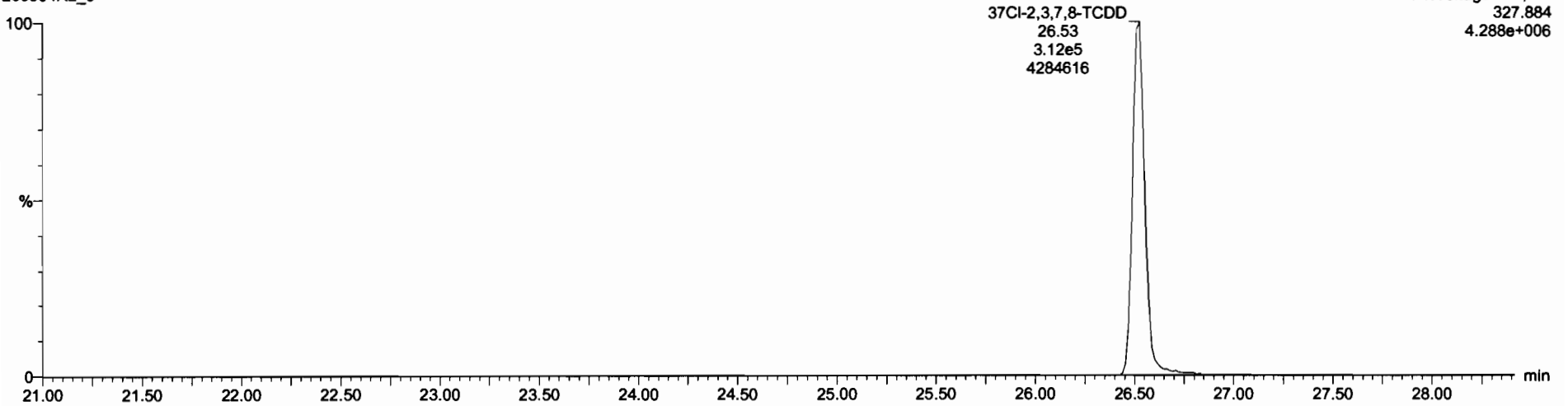
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Name: 200604R2_9, Date: 05-Jun-2020, Time: 02:09:33, ID: 2000997-04 PDI-061SC-A-06-07-200428 15, Description: PDI-061SC-A-06-07-200428

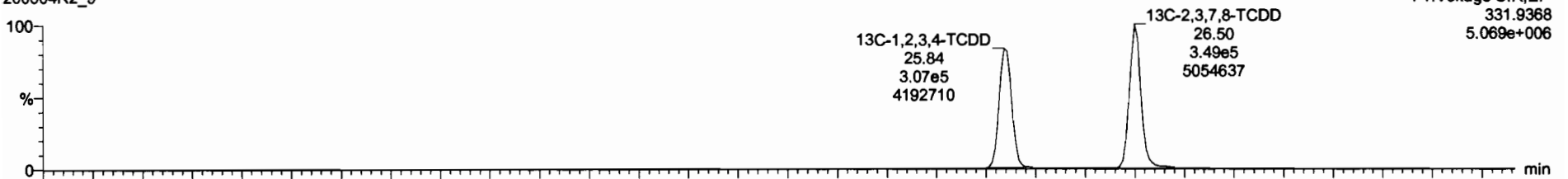
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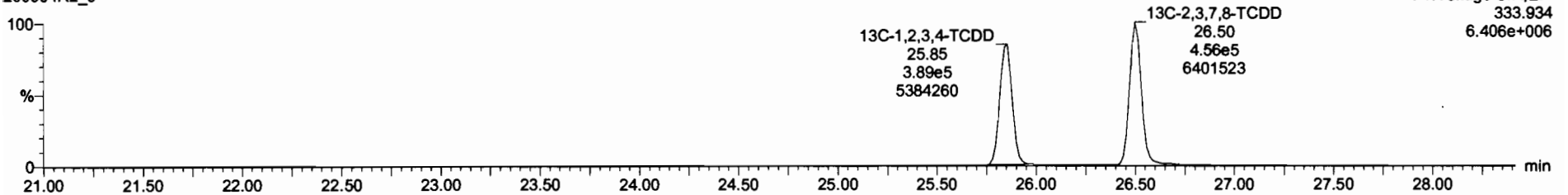


13C-1,2,3,4-TCDD

200604R2_9



200604R2_9



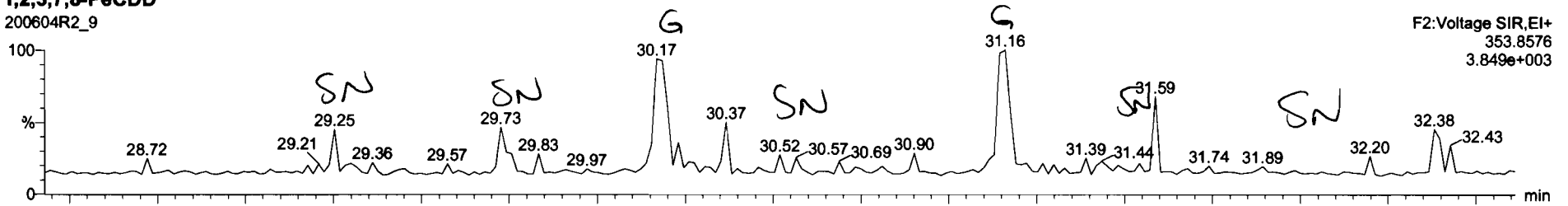
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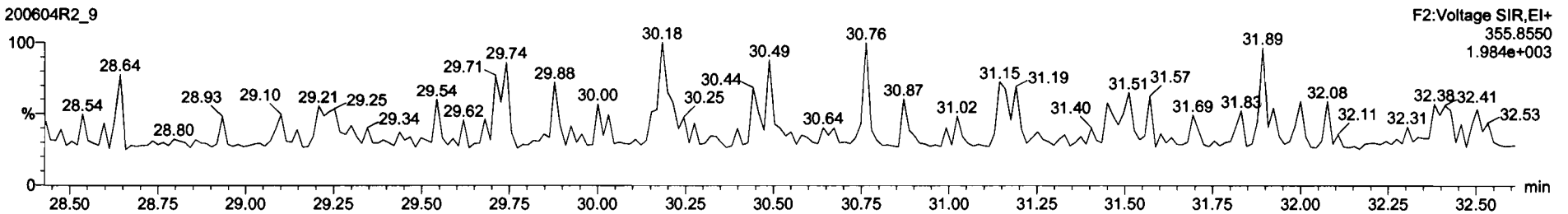
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1,2,3,7,8-PeCDD

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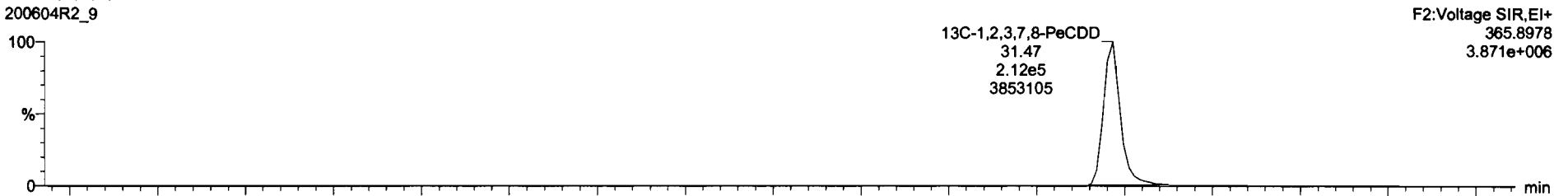


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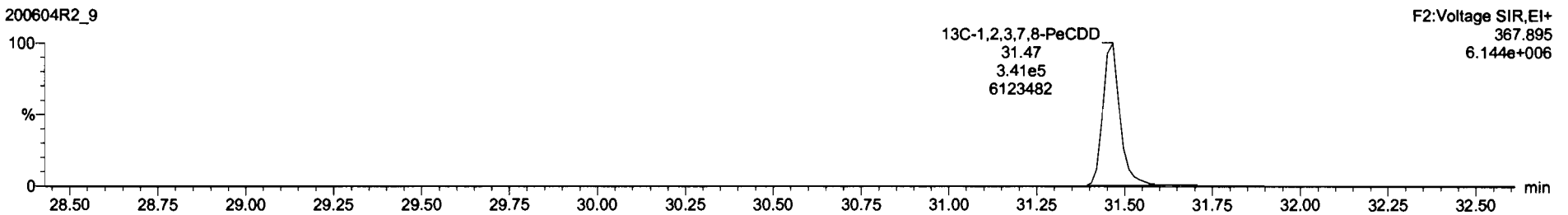


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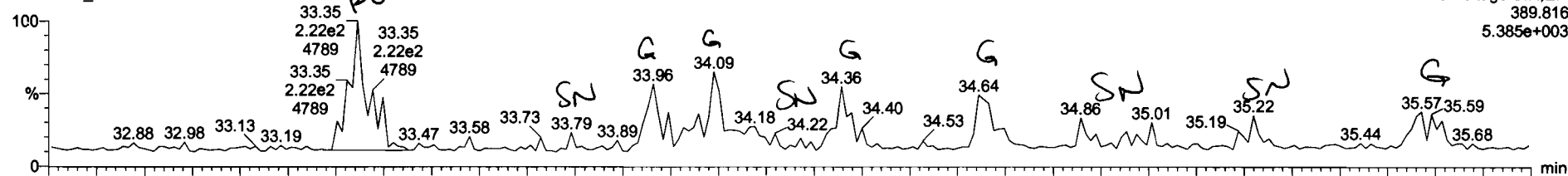
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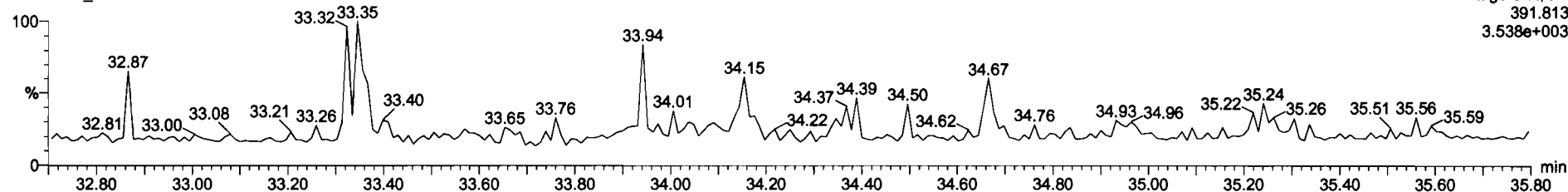
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1,2,3,4,7,8-HxCDD

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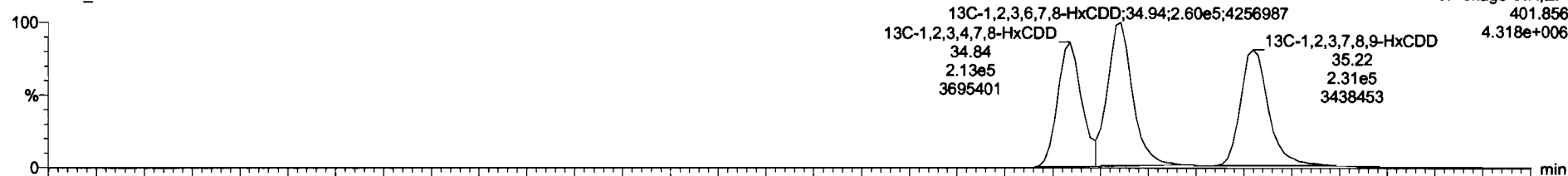


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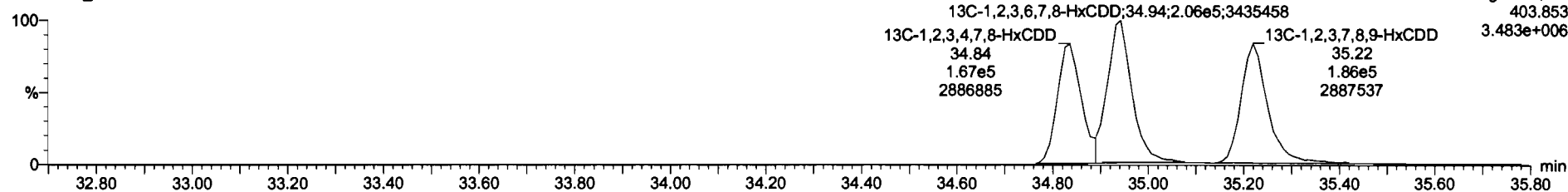


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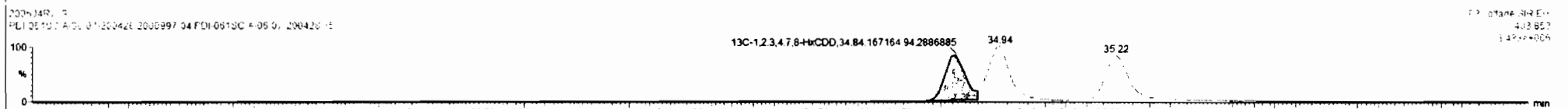
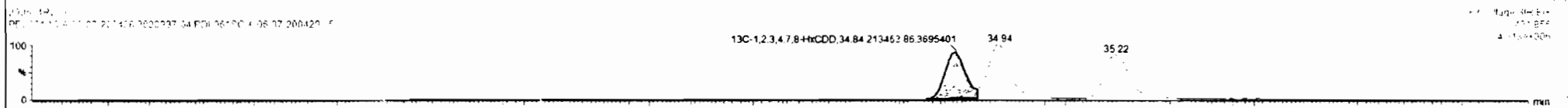
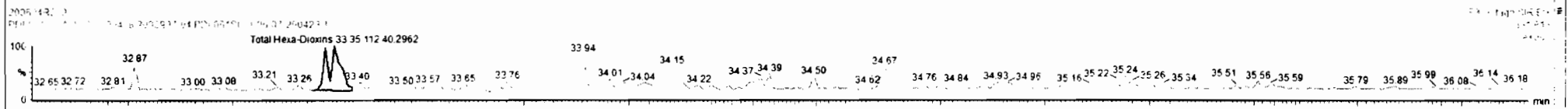
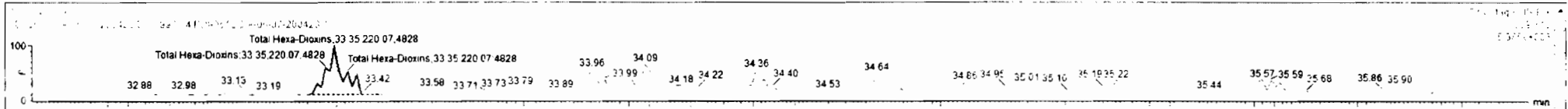
200604R2_9



200604R2_9



SI	Name	Resp	RA	My	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8683	10.128			0.000		0.0235	0.0580
40	Total Penta-Dioxins				0.9061	10.128					0.0245	
41	Total Hexa-Dioxins				0.8625	10.128					0.0891	0.132
42	Total Hepta-Dioxins				0.8639	10.128			0.000		0.0780	0.329
43	Total Tetra-Furans				0.7510	10.128			0.0509		0.0104	0.0510
44	1st Func. Penta-Furans				0.8925	10.128					0.00822	
45	Total Penta-Furans				0.8925	10.128					0.00892	
46	Total Hexa-Furans				0.9341	10.128			0.0582		0.0177	0.0580
47	Total Hepta-Furans				0.8734	10.128					0.0182	
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											
58	DPE6											



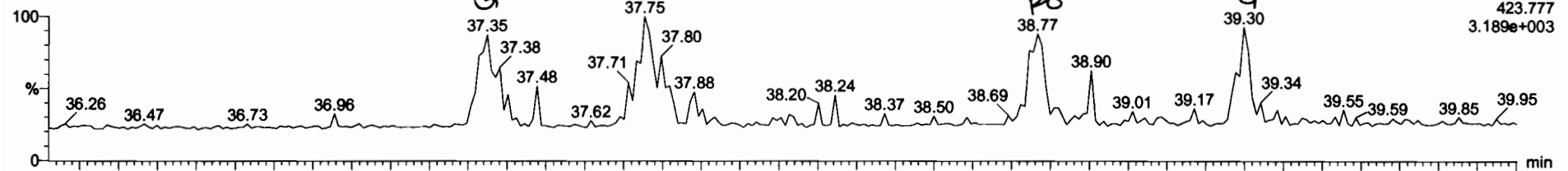
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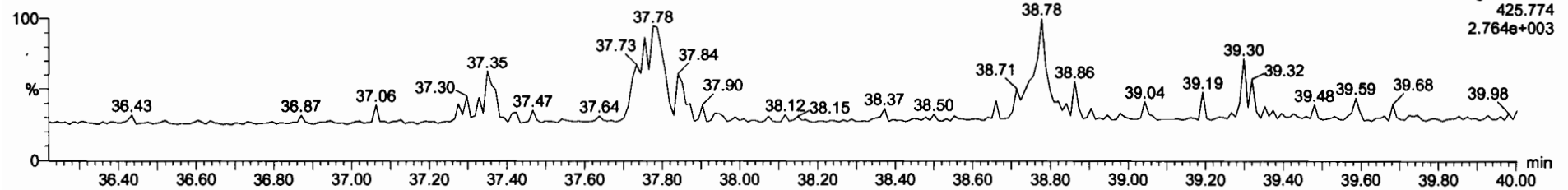
Name: 200604R2_9, Date: 05-Jun-2020, Time: 02:09:33, ID: 2000997-04 PDI-061SC-A-06-07-200428 15, Description: PDI-061SC-A-06-07-200428

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

200604R2_9

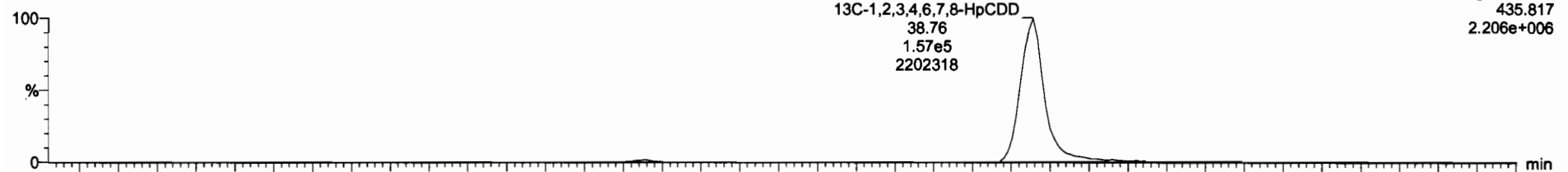


200604R2_9

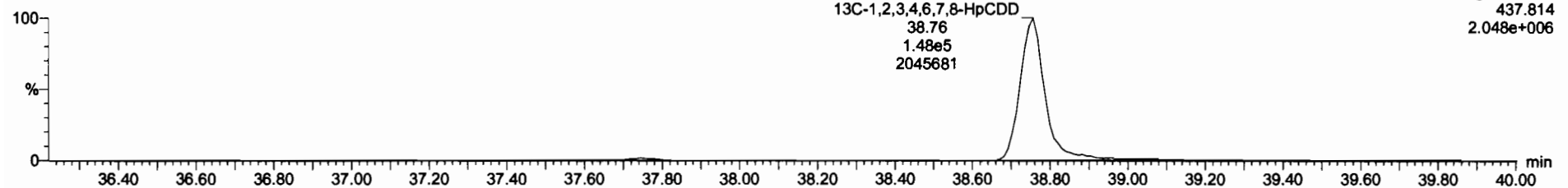


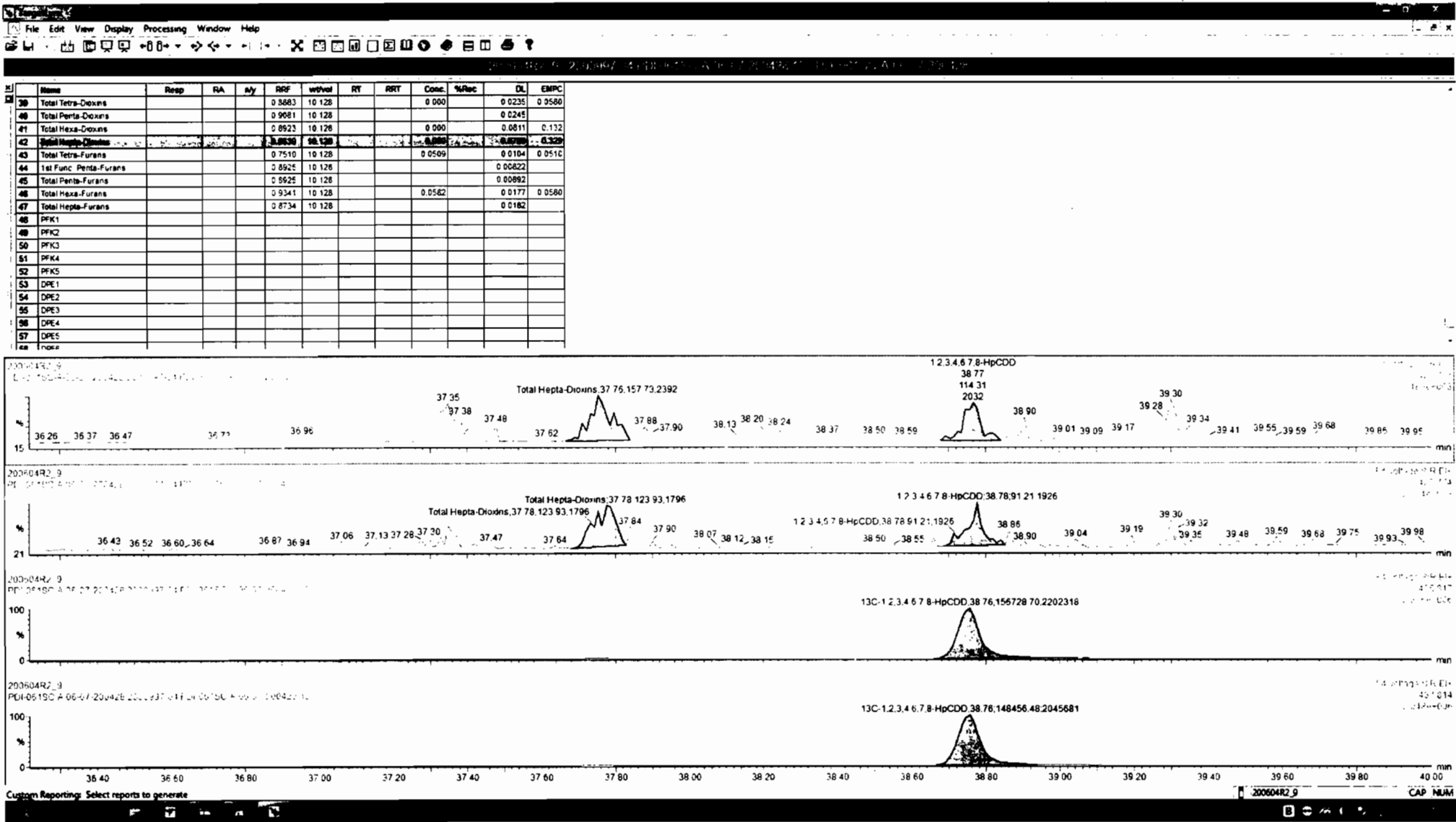
13C-1,2,3,4,6,7,8-HpCDD

200604R2_9



200604R2_9

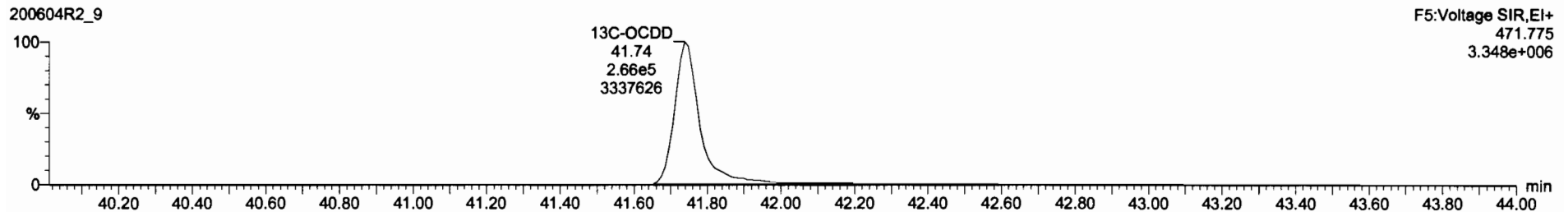
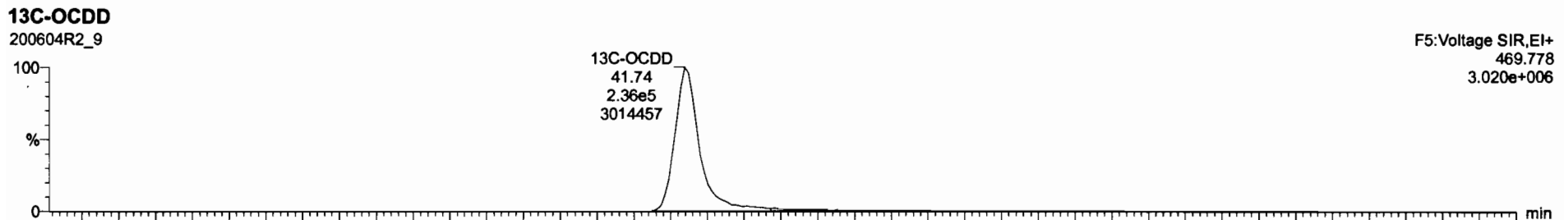
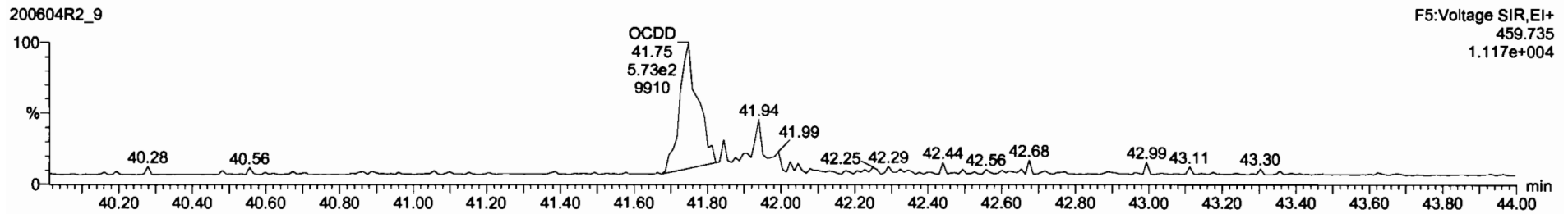
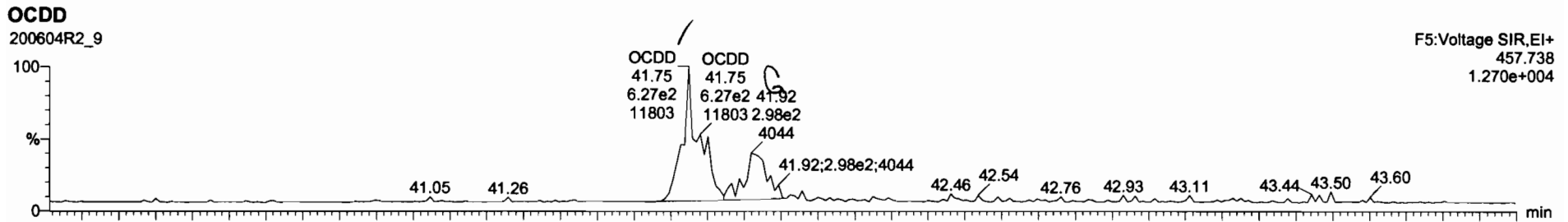




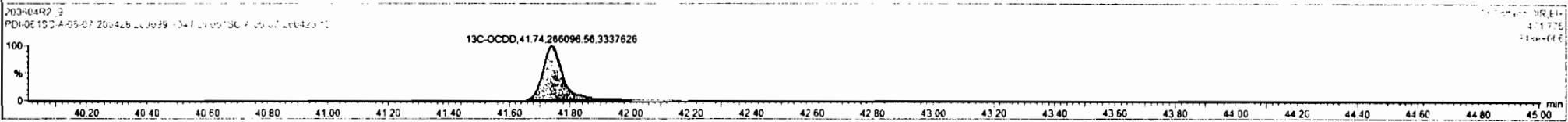
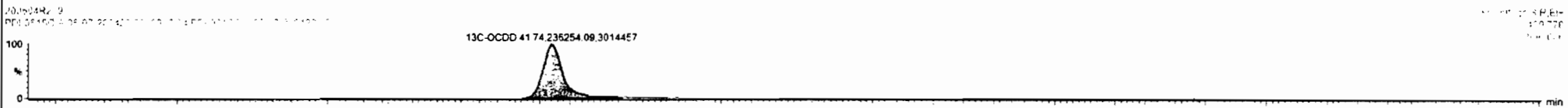
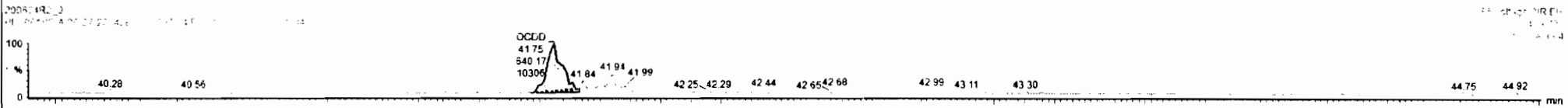
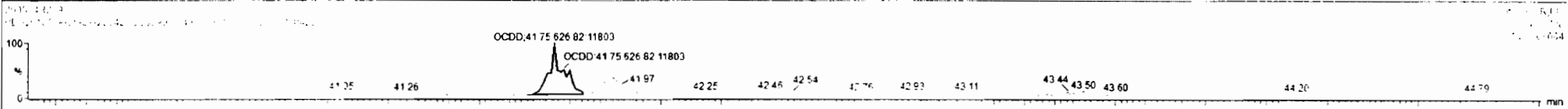
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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_9, Date: 05-Jun-2020, Time: 02:09:33, ID: 2000997-04 PDI-061SC-A-06-07-200428 15, Description: PDI-061SC-A-06-07-200428



Name	Resp	RA	dy	RRF	retvol	RT	RRT	Conc.	%Rec	DL	EMPC
7	OCDF	1.27e5	0.38	NO	0.9725	41.75	1.000	0.0413		0.146	1.00
8	2,3,7,8-TCDF			NO	0.7510	10.128				0.0222	
9	1,2,3,7,8-PeCDF			NO	0.8925	10.128				0.0246	
10	2,3,4,7,8-PeCDF			NO	0.9345	10.128				0.0219	
11	1,2,3,4,7,8-HxCDF			NO	0.8845	10.128				0.0418	
12	1,2,3,6,7,8-HxCDF			NO	0.8892	10.128				0.0386	
13	2,3,4,6,7,8-HxCDF			NO	0.9341	10.128				0.0411	
14	1,2,3,7,8,9-HxCDF	7.45e1	1.24	NO	0.8707	10.128	35.58	1.000	0.0413	0.0252	0.0410
15	1,2,3,4,6,7,8-HpCDF			NO	0.8734	10.128				0.0341	
16	1,2,3,4,7,8,9-HpCDF			NO	1.0126	10.128				0.0371	
17	OCDF			NO	0.8065	10.128				0.0664	
18	13C-2,3,7,8-TCDD	8.05e5	0.77	NO	1.1563	10.128	26.50	1.026	198	100	0.209
19	13C-1,2,3,7,8-PeCDD	5.53e5	0.62	NO	0.8490	10.128	31.47	1.218	185	93.7	0.387
20	13C-1,2,3,4,7,8-HxCDD	3.81e5	1.28	NO	0.7790	10.128	34.84	1.014	174	88.1	0.620
21	13C-1,2,3,6,7,8-HxCDD	4.66e5	1.26	NO	1.0167	10.128	34.94	1.017	163	82.6	0.475
22	13C-1,2,3,7,8,9-HxCDD	4.16e5	1.24	NO	0.9627	10.128	35.22	1.025	164	83.2	0.535
23	13C-1,2,3,4,6,7,8-HpCDD	3.05e5	1.06	NO	0.8892	10.128	38.78	1.128	158	79.9	0.457
24	13C-OCDD	5.02e5	0.89	NO	0.8521	10.128	41.74	1.215	274	69.5	0.797
25	13C-2,3,7,8-TCDF	9.90e5	0.76	NO	1.0590	10.128	25.60	0.991	181	91.4	0.239
26	13C-1,2,3,7,8-PeCDD	6.47e5	1.00	NO	0.8730	10.128	30.18	1.128	161	87.4	0.247

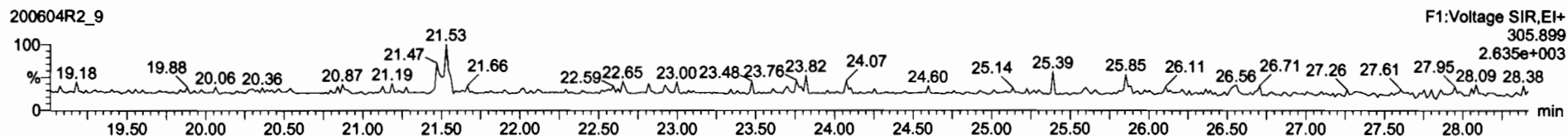
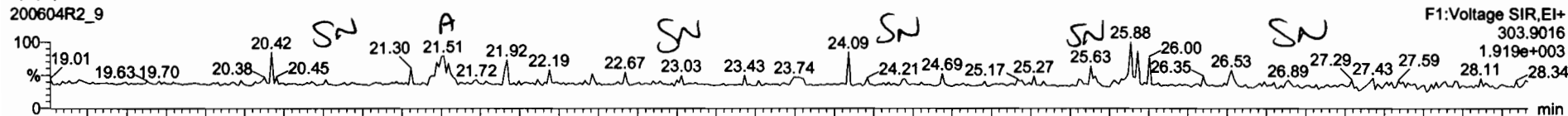


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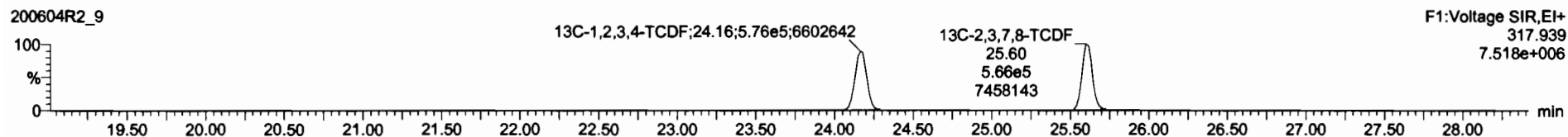
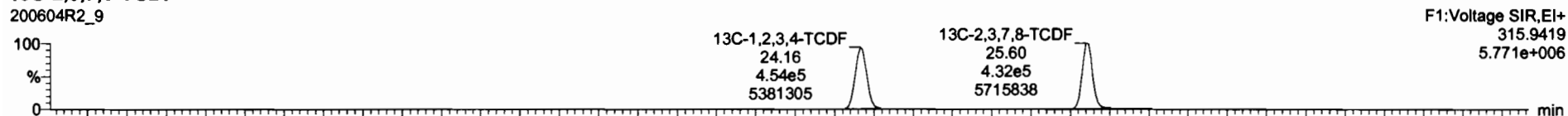
Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_9, Date: 05-Jun-2020, Time: 02:09:33, ID: 2000997-04 PDI-061SC-A-06-07-200428 15, Description: PDI-061SC-A-06-07-200428

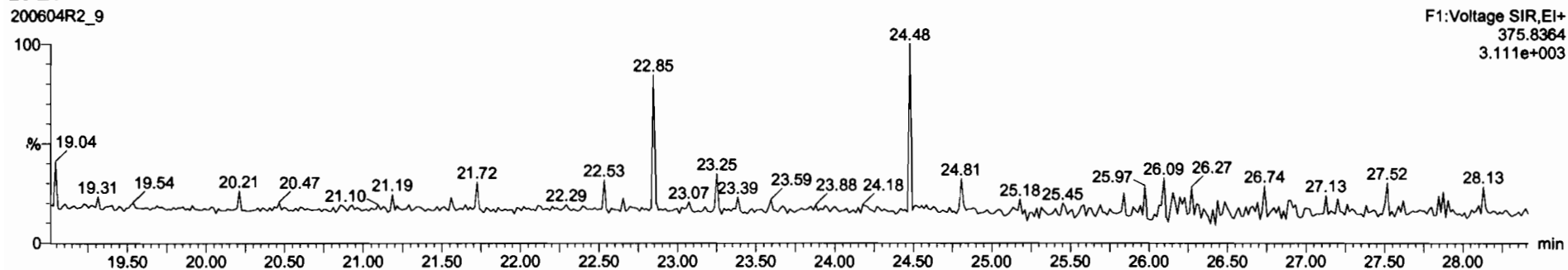
2,3,7,8-TCDF

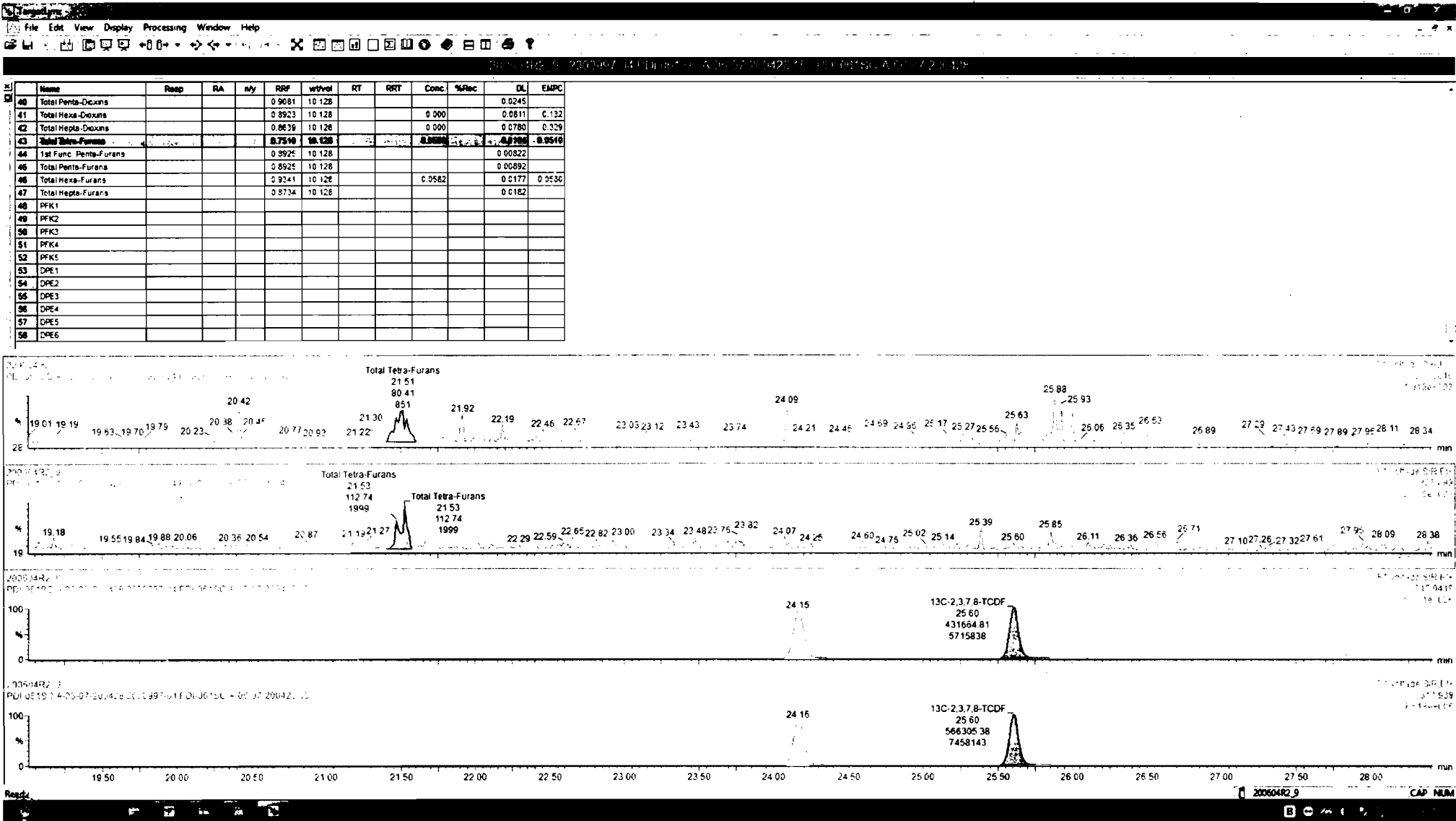


13C-2,3,7,8-TCDF



DPE1





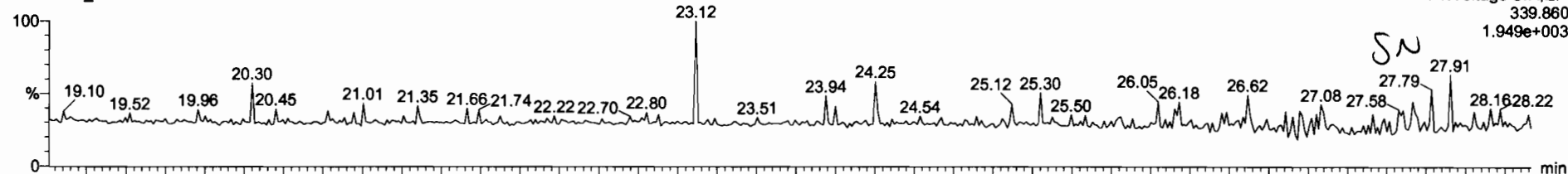
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Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

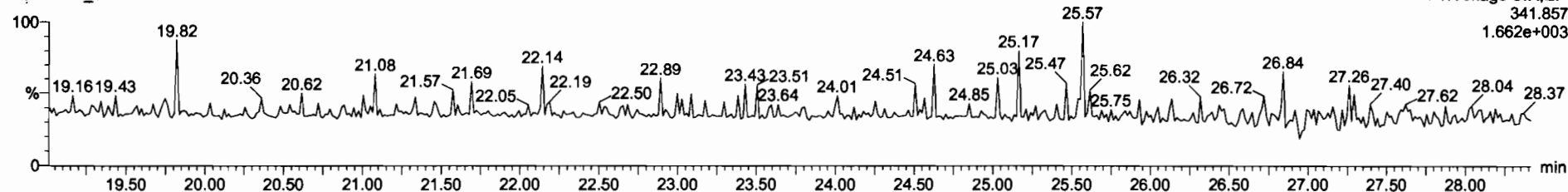
Name: 200604R2_9, Date: 05-Jun-2020, Time: 02:09:33, ID: 2000997-04 PDI-061SC-A-06-07-200428 15, Description: PDI-061SC-A-06-07-200428

1st Func. Penta-Furans

200604R2_9

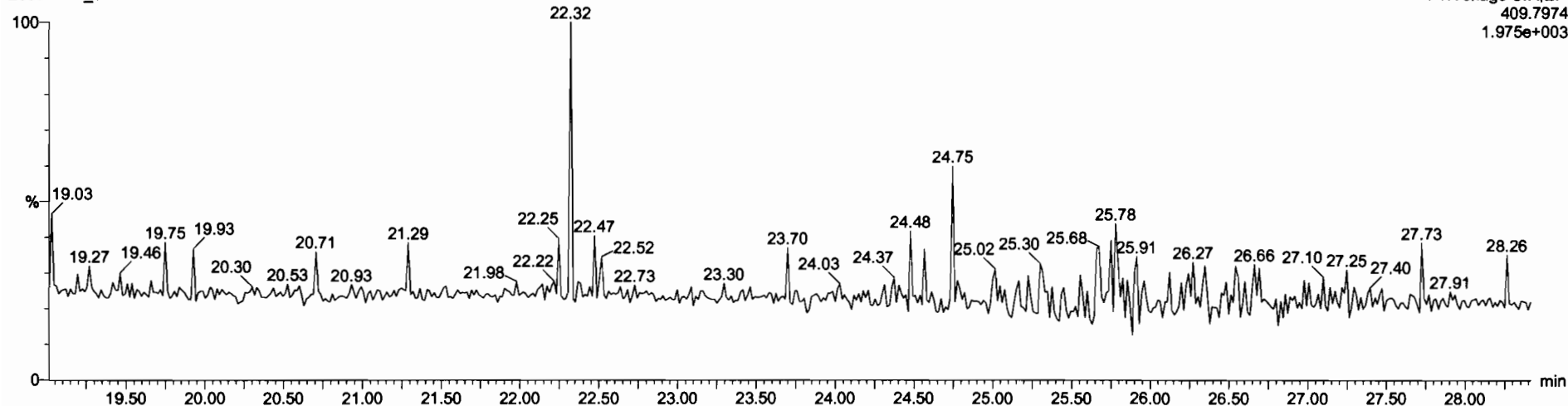


200604R2_9



DPE6

200604R2_9

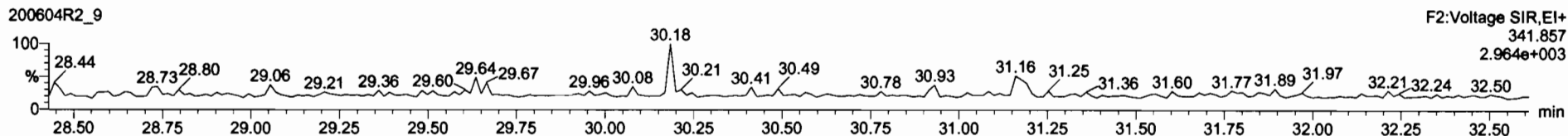
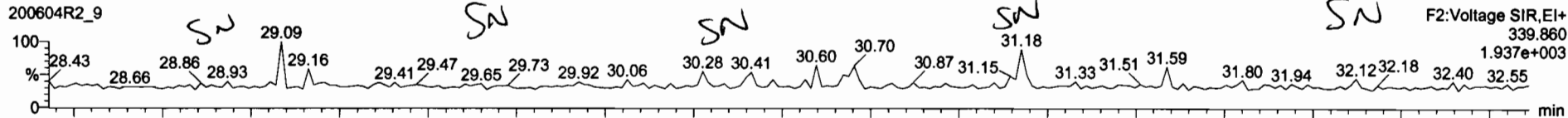


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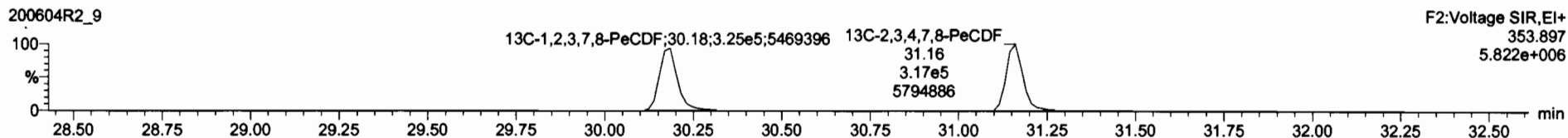
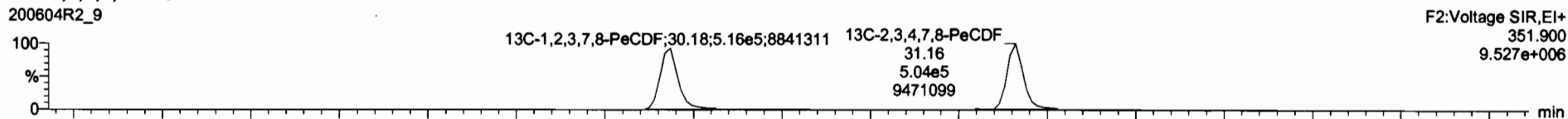
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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_9, Date: 05-Jun-2020, Time: 02:09:33, ID: 2000997-04 PDI-061SC-A-06-07-200428 15, Description: PDI-061SC-A-06-07-200428

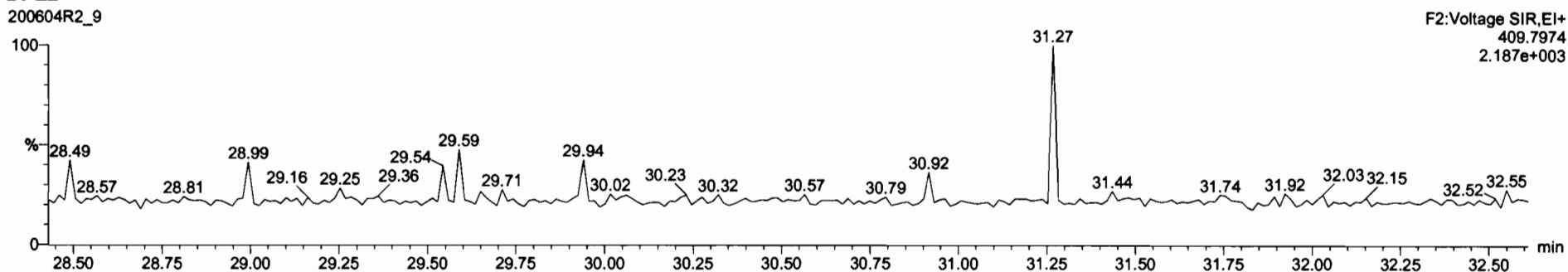
1,2,3,7,8-PeCDF



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



DPE2

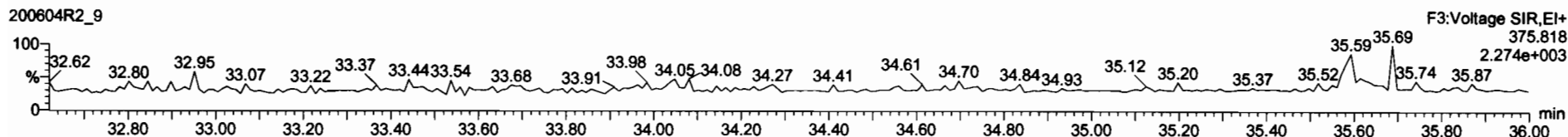
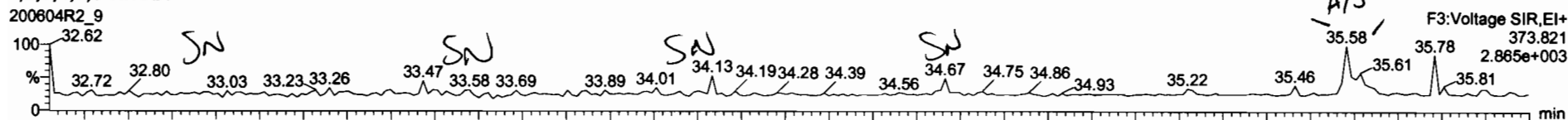


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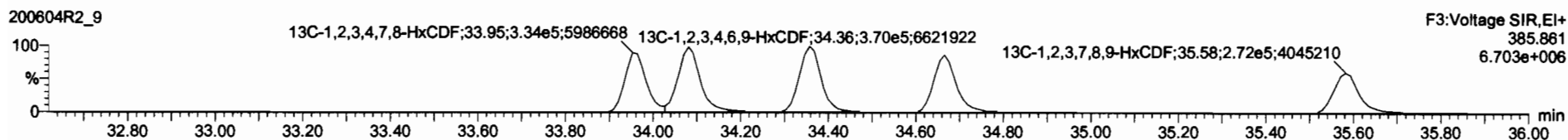
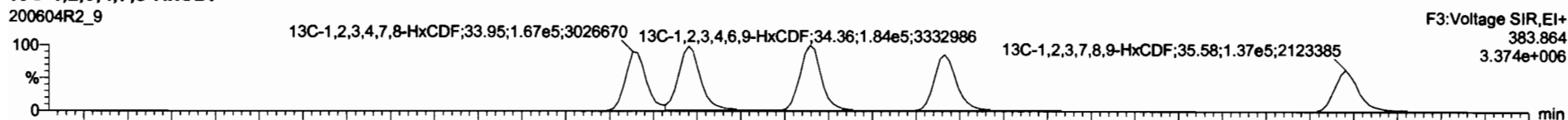
Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_9, Date: 05-Jun-2020, Time: 02:09:33, ID: 2000997-04 PDI-061SC-A-06-07-200428 15, Description: PDI-061SC-A-06-07-200428

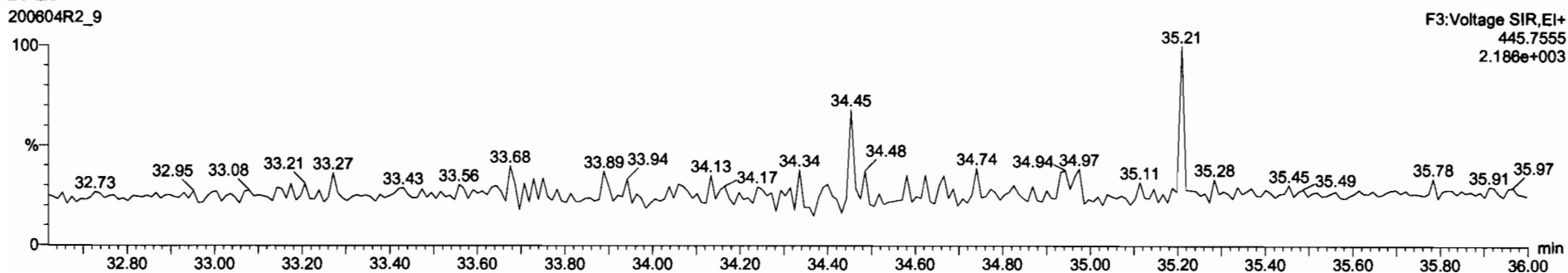
1,2,3,4,7,8-HxCDF



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

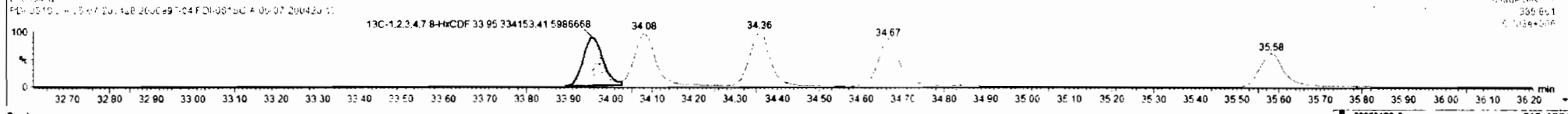
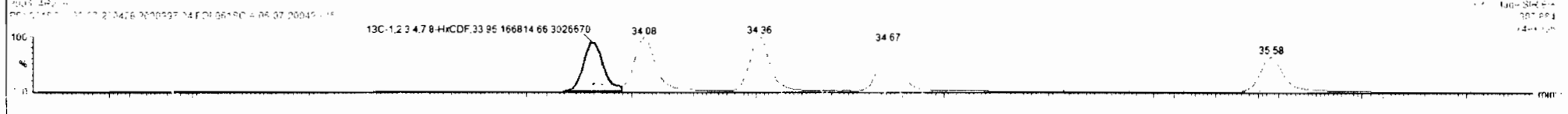
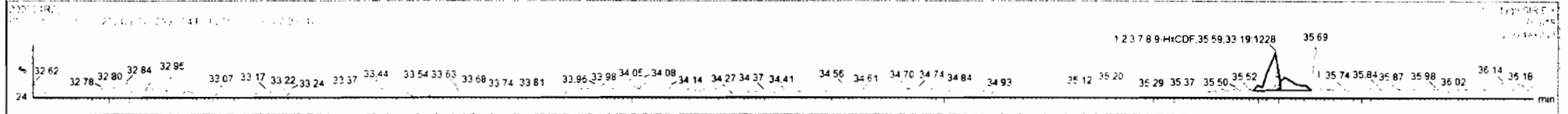
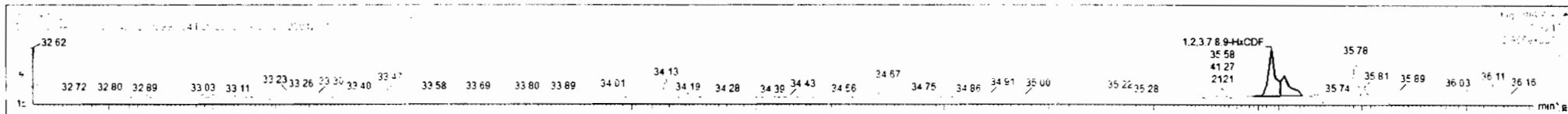


DPE3



20060429_9_200997 METADATAS.A 07 200428 15 0000000.A 07 200429

SI	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.9681	10.128					0.0245	
41	Total Hexa-Dioxins				0.8923	10.128			0.000		0.0811	0.132
42	Total Hepta-Dioxins				0.6639	10.128			0.000		0.0780	0.329
43	Total Tetra-Furans				0.7510	10.128			0.0509		0.0104	0.0510
44	1st Func. Penta-Furans				0.3925	10.128					0.06322	
45	Total Penta-Furans				0.8525	10.128					0.06892	
46	Total Hexa-Furans				0.9341	10.128			0.0562		0.9177	0.0500
47	Total Hepta-Furans				0.8734	10.128					0.0182	
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											
58	DPE6											

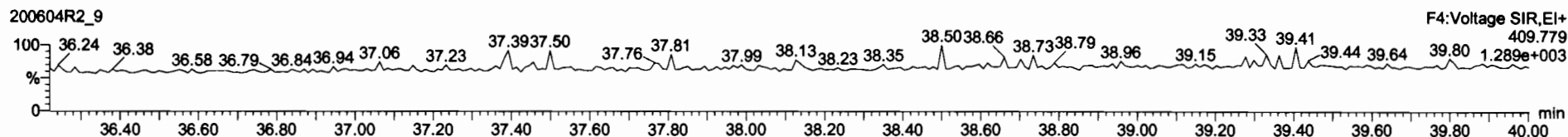
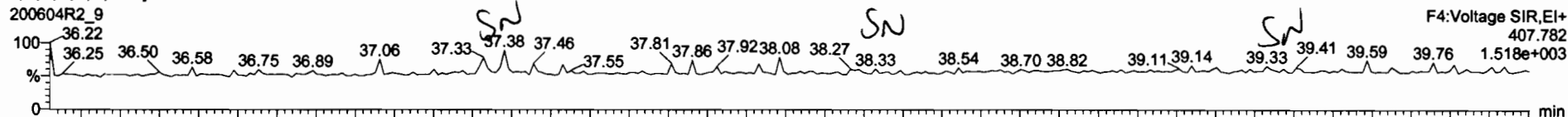


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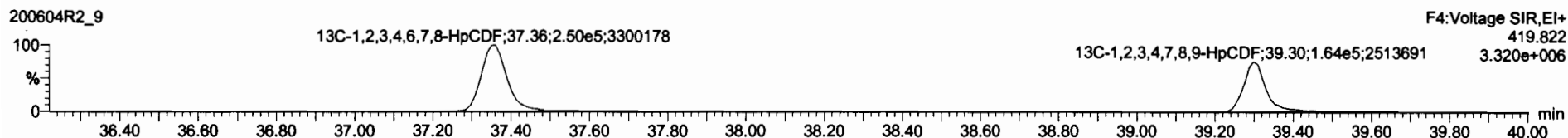
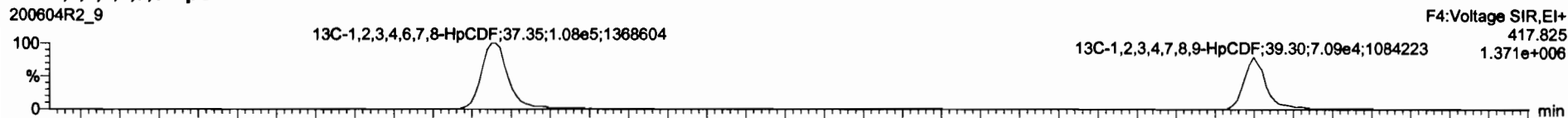
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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_9, Date: 05-Jun-2020, Time: 02:09:33, ID: 2000997-04 PDI-061SC-A-06-07-200428 15, Description: PDI-061SC-A-06-07-200428

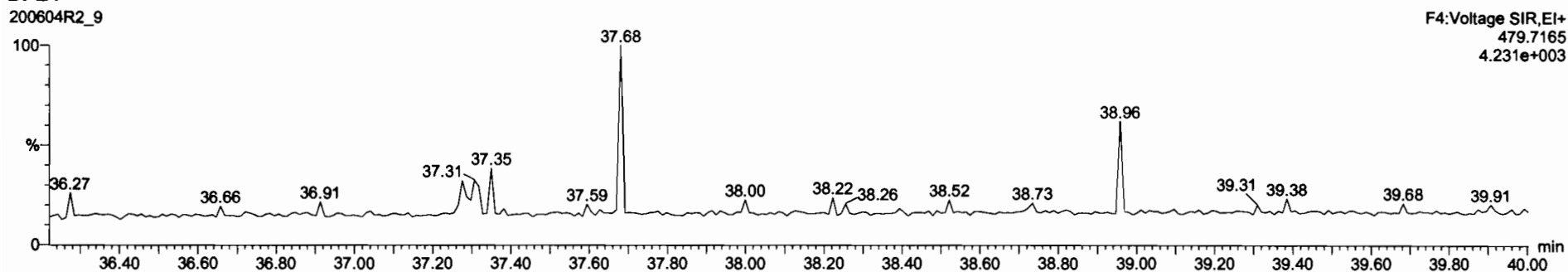
1,2,3,4,6,7,8-HpCDF



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



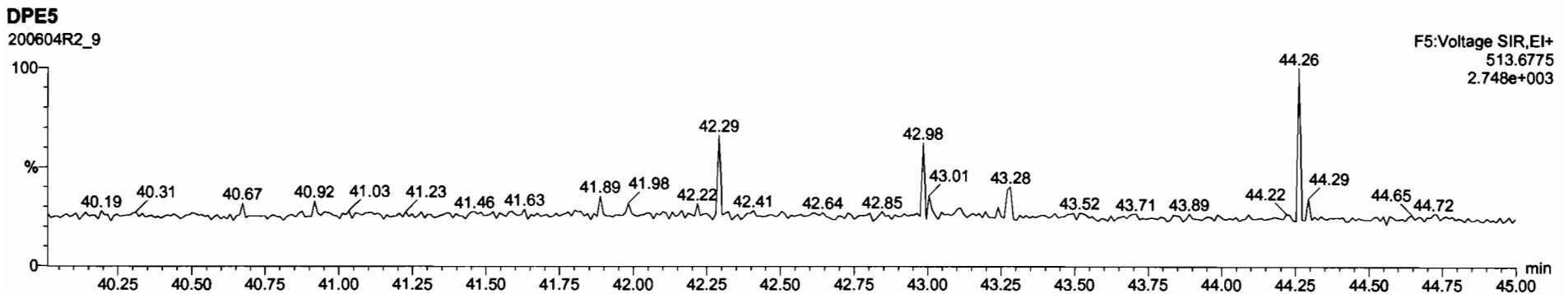
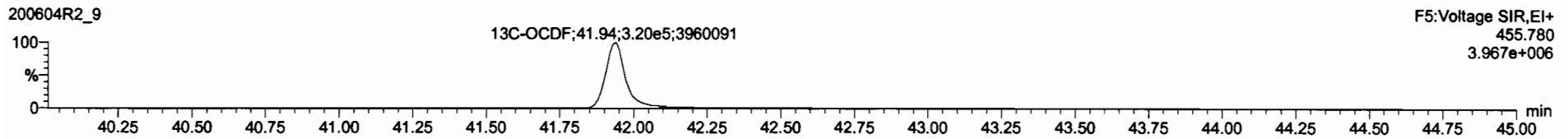
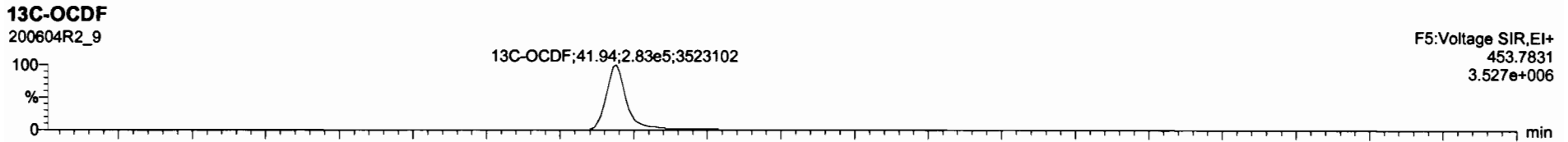
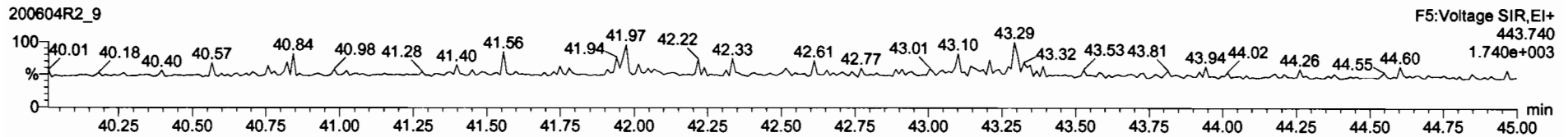
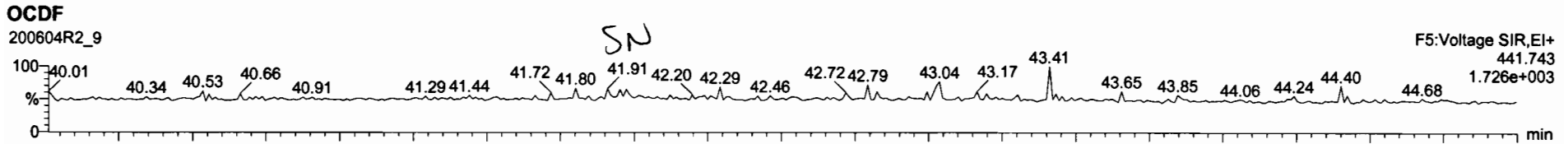
DPE4



Dataset: Untitled

Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_9, Date: 05-Jun-2020, Time: 02:09:33, ID: 2000997-04 PDI-061SC-A-06-07-200428 15, Description: PDI-061SC-A-06-07-200428

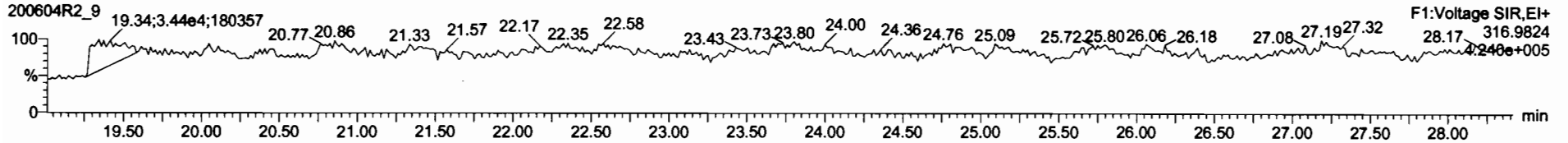


Dataset: Untitled

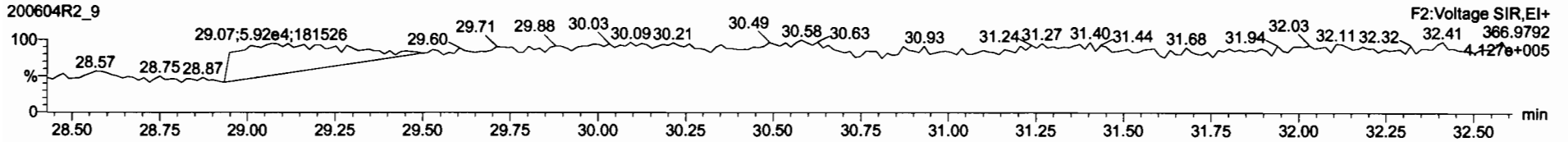
Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_9, Date: 05-Jun-2020, Time: 02:09:33, ID: 2000997-04 PDI-061SC-A-06-07-200428 15, Description: PDI-061SC-A-06-07-200428

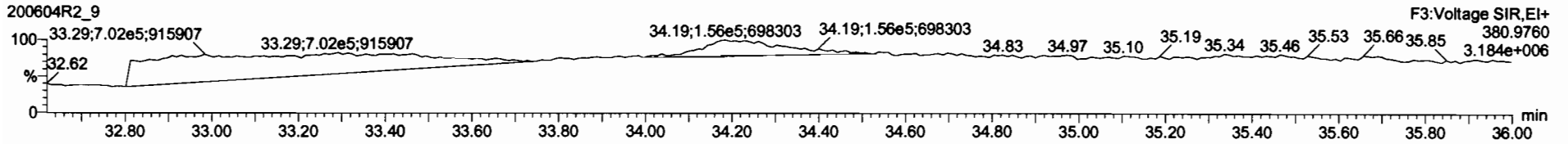
PFK1



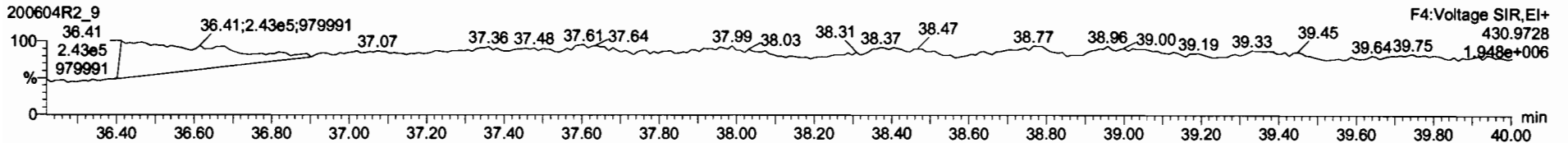
PFK2



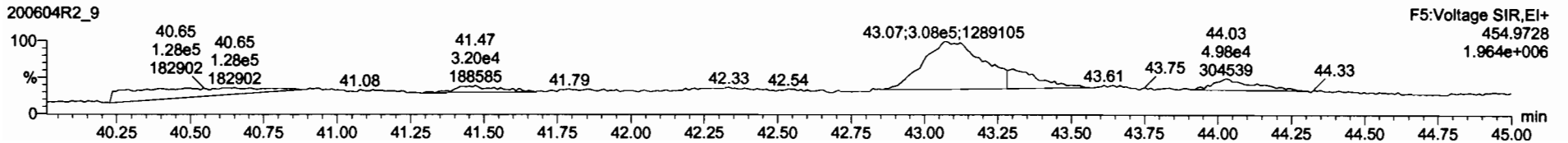
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200604R2\200604R2-10.qld

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Printed: Monday, June 08, 2020 09:48:18 Pacific Daylight Time

GRB 06/08/2020

C7 07/02/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\cb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R2_10, Date: 05-Jun-2020, Time: 02:55:48, ID: 2000997-05 PDI-061SC-A-07-08-200428 14.12, Description: PDI-061SC-A-07-08-200428

1	2,3,7,8-TCDD			NO	0.888	10.033	26.531		1.001					0.0519	
2	1,2,3,7,8-PeCDD			NO	0.908	10.033	31.488		1.001					0.0656	
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.033	34.857		1.000					0.0897	
4	1,2,3,6,7,8-HxCDD			NO	0.892	10.033	34.953		1.000					0.0852	
5	1,2,3,7,8,9-HxCDD			NO	0.887	10.033	35.241		1.000					0.100	
6	1,2,3,4,6,7,8-HpCDD			NO	0.864	10.033	38.778		1.000					0.105	
7	OCDD	3.50e2	0.87	NO	0.914	10.033	41.759	41.80	1.000	1.001	0.45467			0.189	0.455
8	2,3,7,8-TCDF			NO	0.751	10.033	25.641		1.001					0.0296	
9	1,2,3,7,8-PeCDF			NO	0.893	10.033	30.205		1.001					0.0443	
10	2,3,4,7,8-PeCDF			NO	0.935	10.033	31.192		1.001					0.0406	
11	1,2,3,4,7,8-HxCDF			NO	0.884	10.033	33.963		1.000					0.0357	
12	1,2,3,6,7,8-HxCDF			NO	0.889	10.033	34.101		1.000					0.0319	
13	2,3,4,6,7,8-HxCDF			NO	0.934	10.033	34.711		1.001					0.0347	
14	1,2,3,7,8,9-HxCDF			NO	0.871	10.033	35.592		1.000					0.0526	
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	10.033	37.397		1.001					0.0386	
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.033	39.320		1.000					0.0437	
17	OCDF			NO	0.806	10.033	41.951		1.000					0.134	
18	13C-2,3,7,8-TCDD	5.55e5	0.76	NO	1.16	10.033	26.538	26.50	1.026	1.025	131.38	65.9		0.165	
19	13C-1,2,3,7,8-PeCDD	3.94e5	0.66	NO	0.849	10.033	31.729	31.47	1.227	1.217	127.14	63.8		0.263	
20	13C-1,2,3,4,7,8-HxCDD	2.59e5	1.34	NO	0.779	10.033	34.853	34.85	1.014	1.014	118.28	59.3		0.605	
21	13C-1,2,3,6,7,8-HxCDD	3.26e5	1.23	NO	1.02	10.033	34.966	34.95	1.017	1.017	113.83	57.1		0.464	
22	13C-1,2,3,7,8,9-HxCDD	2.88e5	1.30	NO	0.903	10.033	35.238	35.23	1.025	1.025	113.34	56.9		0.522	
23	13C-1,2,3,4,6,7,8-HpCDD	2.06e5	1.04	NO	0.689	10.033	38.764	38.77	1.128	1.128	106.36	53.4		0.410	
24	13C-OCDD	3.36e5	0.92	NO	0.652	10.033	41.788	41.76	1.216	1.215	183.06	45.9		0.607	
25	13C-2,3,7,8-TCDF	7.10e5	0.78	NO	1.06	10.033	25.578	25.61	0.989	0.991	124.58	62.5		0.262	
26	13C-1,2,3,7,8-PeCDF	5.82e5	1.64	NO	0.838	10.033	30.111	30.18	1.165	1.167	129.18	64.8		0.559	
27	13C-2,3,4,7,8-PeCDF	5.68e5	1.60	NO	0.817	10.033	31.065	31.16	1.202	1.205	129.27	64.8		0.573	
28	13C-1,2,3,4,7,8-HxCDF	3.46e5	0.50	NO	1.01	10.033	33.983	33.96	0.989	0.988	122.12	61.3		0.719	
29	13C-1,2,3,6,7,8-HxCDF	4.01e5	0.51	NO	1.17	10.033	34.107	34.09	0.992	0.992	122.19	61.3		0.621	
30	13C-2,3,4,6,7,8-HxCDF	3.51e5	0.50	NO	1.02	10.033	34.681	34.68	1.009	1.009	122.00	61.2		0.709	
31	13C-1,2,3,7,8,9-HxCDF	2.87e5	0.50	NO	0.860	10.033	35.581	35.59	1.035	1.036	118.73	59.6		0.843	

Dataset: U:\VG12.PRO\Results\200604R2\200604R2-10.qld

Last Altered: Monday, June 08, 2020 09:46:53 Pacific Daylight Time
Printed: Monday, June 08, 2020 09:48:18 Pacific Daylight Time

Name: 200604R2_10, Date: 05-Jun-2020, Time: 02:55:48, ID: 2000997-05 PDI-061SC-A-07-08-200428 14.12, Description: PDI-061SC-A-07-08-200428

32	13C-1,2,3,4,6,7,8-HpCDF	2.47e5	0.41	NO	0.774	10.033	37.331	37.36	1.086	1.087	113.07	56.7	0.499
33	13C-1,2,3,4,7,8,9-HpCDF	1.62e5	0.41	NO	0.521	10.033	39.362	39.32	1.145	1.144	110.14	55.3	0.742
34	13C-OCDF	3.98e5	0.89	NO	0.746	10.033	41.960	41.95	1.221	1.221	189.44	47.5	0.531
35	37Cl-2,3,7,8-TCDD	3.08e5			1.04	10.033	26.569	26.53	1.028	1.026	81.382	102	0.0644
36	13C-1,2,3,4-TCDD	7.28e5	0.79	NO	1.00	10.033	25.890	25.85	1.000	1.000	199.34	100	0.190
37	13C-1,2,3,4-TCDF	1.07e6	0.78	NO	1.00	10.033	24.360	24.18	1.000	1.000	199.34	100	0.277
38	13C-1,2,3,4,6,9-HxCDF	5.61e5	0.51	NO	1.00	10.033	34.420	34.37	1.000	1.000	199.34	100	0.725
39	Total Tetra-Dioxins				0.888	10.033	24.620		0.000				0.0326
40	Total Penta-Dioxins				0.908	10.033	29.960		0.000				0.0258
41	Total Hexa-Dioxins				0.892	10.033	33.635		0.000				0.0644
42	Total Hepta-Dioxins				0.864	10.033	37.640		0.000				0.0578
43	Total Tetra-Furans				0.751	10.033	23.610		0.000				0.0110
44	1st Func. Penta-Furans				0.893	10.033	27.580		0.000				0.00802
45	Total Penta-Furans				0.893	10.033	29.275		0.000				0.0126
46	Total Hexa-Furans				0.934	10.033	33.555		0.000				0.0176
47	Total Hepta-Furans				0.873	10.033	37.835		0.000				0.0186

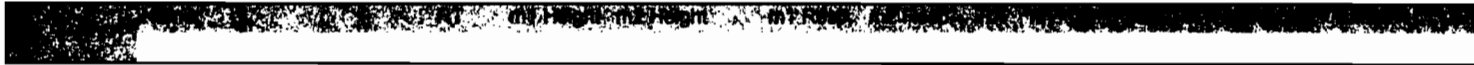
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Name: 200604R2_10, Date: 05-Jun-2020, Time: 02:55:48, ID: 2000997-05 PDI-061SC-A-07-08-200428 14.12, Description: PDI-061SC-A-07-08-200428

Tetra-Dioxins



Penta-Dioxins



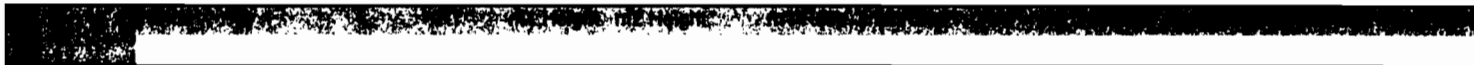
Hexa-Dioxins



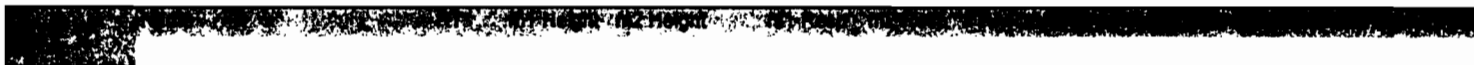
Hepta-Dioxins



Tetra-Furans



Penta-Furans function 1



Dataset: U:\VG12.PRO\Results\200604R2\200604R2-10.qld

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Name: 200604R2_10, Date: 05-Jun-2020, Time: 02:55:48, ID: 2000997-05 PDI-061SC-A-07-08-200428 14.12, Description: PDI-061SC-A-07-08-200428

Penta-Furans

RT	m1 Height	m2 Height	m3 Peak

Hexa-Furans

RT	m1 Height	m2 Height	m3 Peak

Hepta-Furans

RT	m1 Height	m2 Height	m3 Peak

Dataset: Untitled

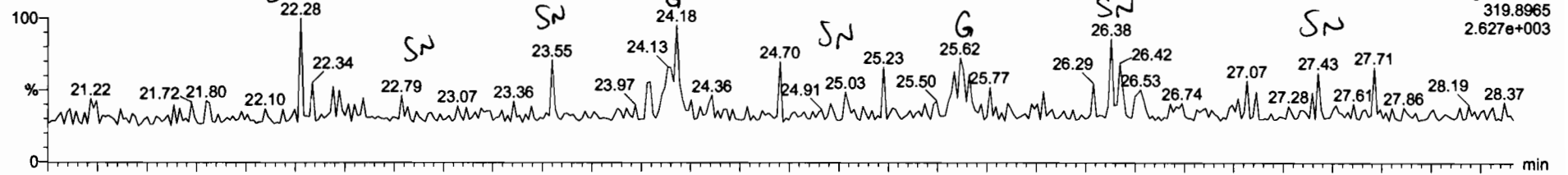
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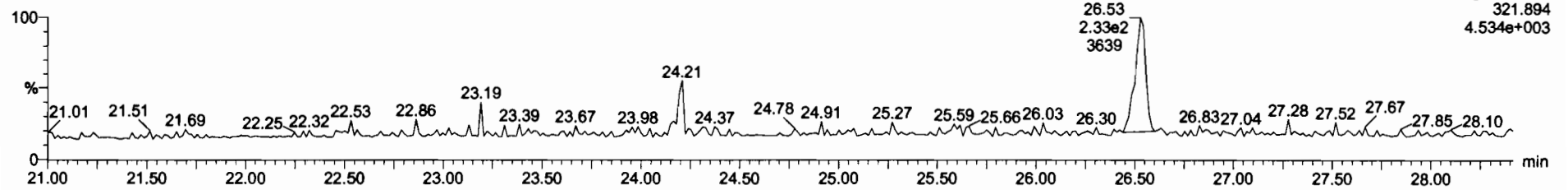
2,3,7,8-TCDD

200604R2_10



F1:Voltage SIR,EI+
319.8965
2.627e+003

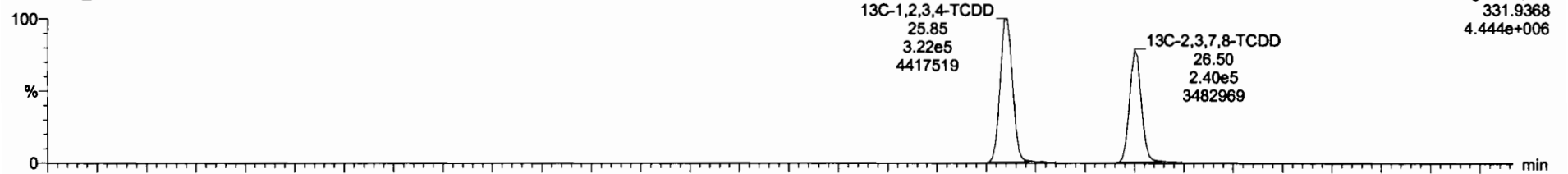
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F1:Voltage SIR,EI+
321.894
4.534e+003

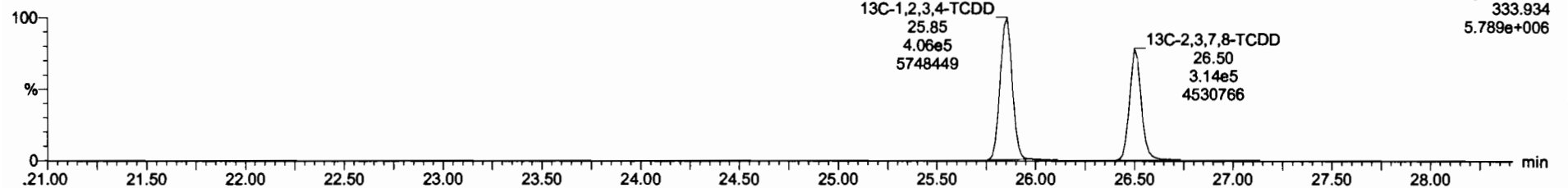
13C-2,3,7,8-TCDD

200604R2_10



F1:Voltage SIR,EI+
331.9368
4.444e+006

200604R2_10



F1:Voltage SIR,EI+
333.934
5.789e+006

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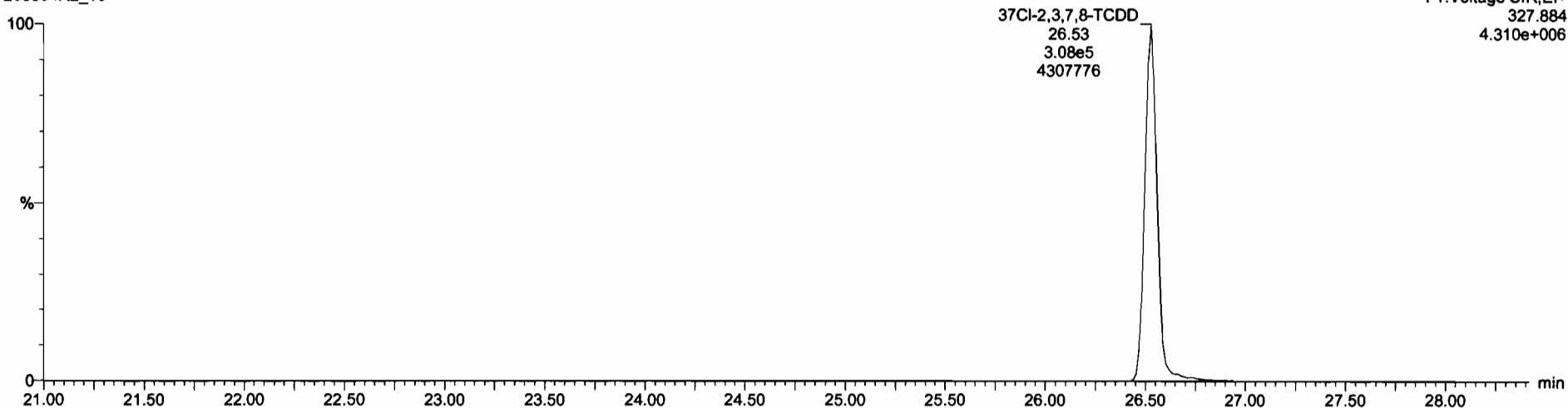
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Name: 200604R2_10, Date: 05-Jun-2020, Time: 02:55:48, ID: 2000997-05 PDI-061SC-A-07-08-200428 14.12, Description: PDI-061SC-A-07-08-200428

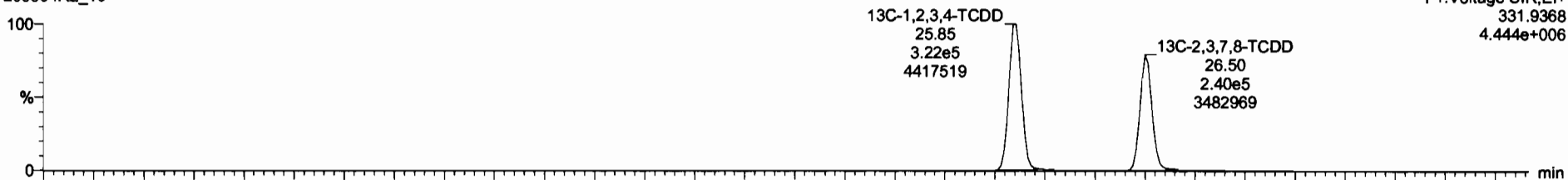
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200604R2_10

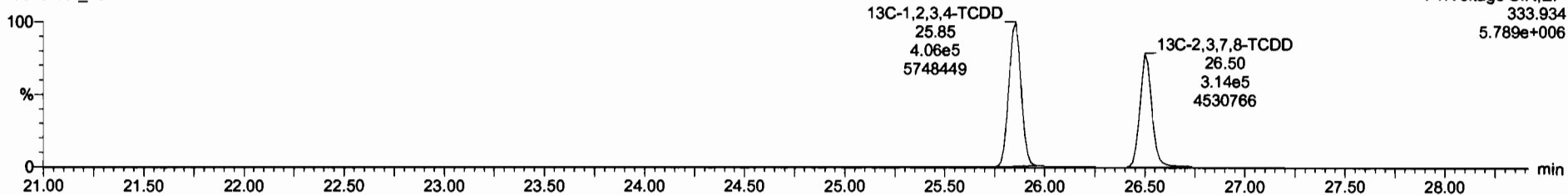


13C-1,2,3,4-TCDD

200604R2_10



200604R2_10



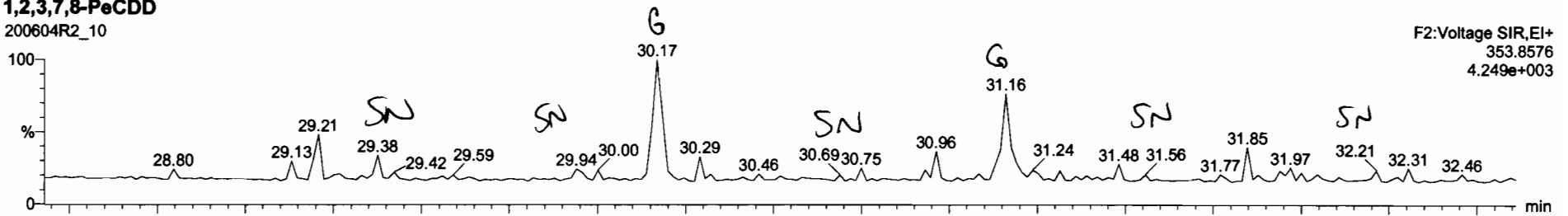
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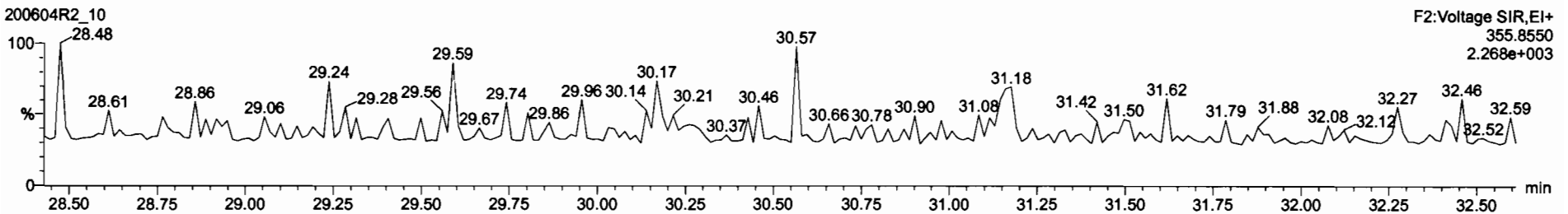
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1,2,3,7,8-PeCDD

200604R2_10

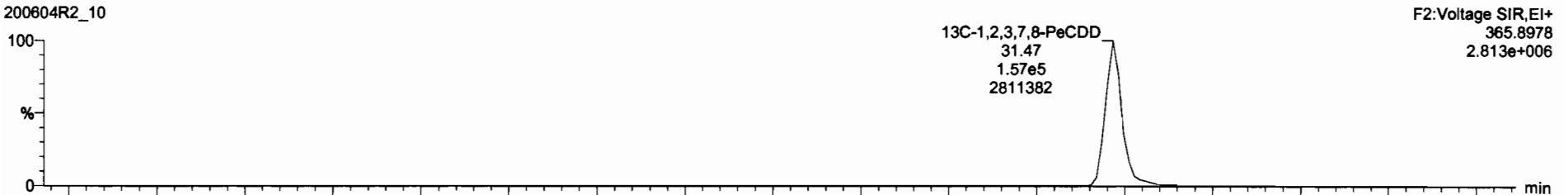


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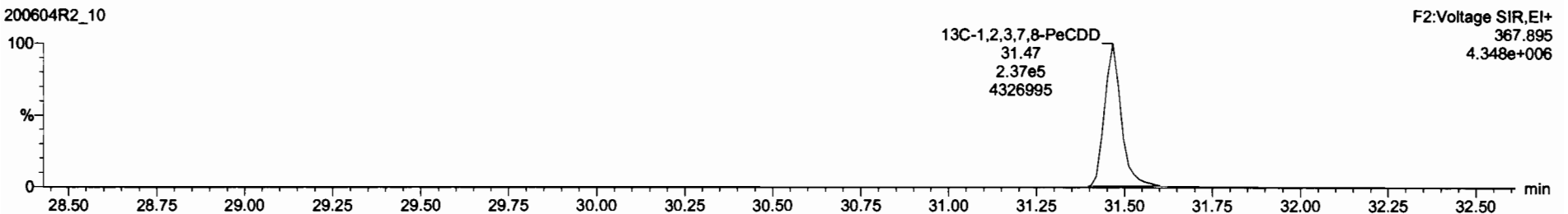


13C-1,2,3,7,8-PeCDD

200604R2_10



200604R2_10



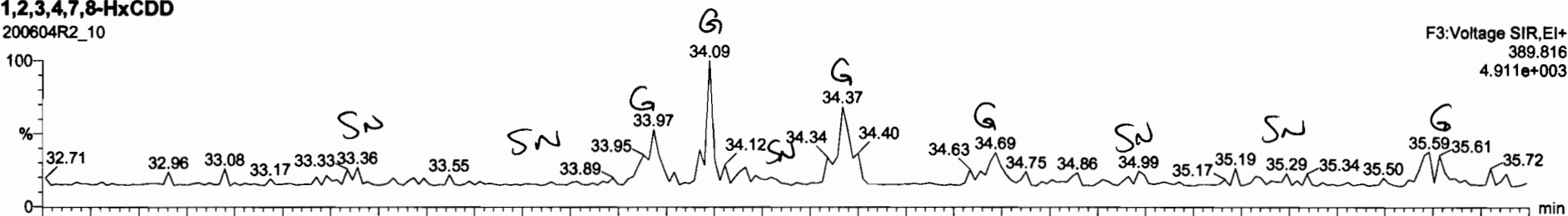
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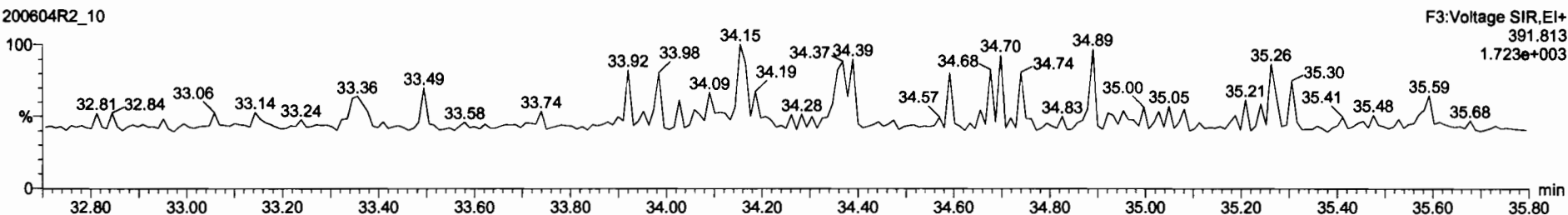
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1,2,3,4,7,8-HxCDD

200604R2_10

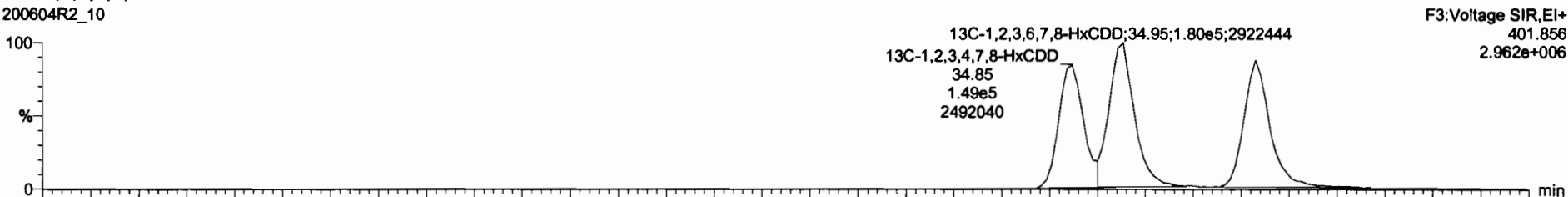


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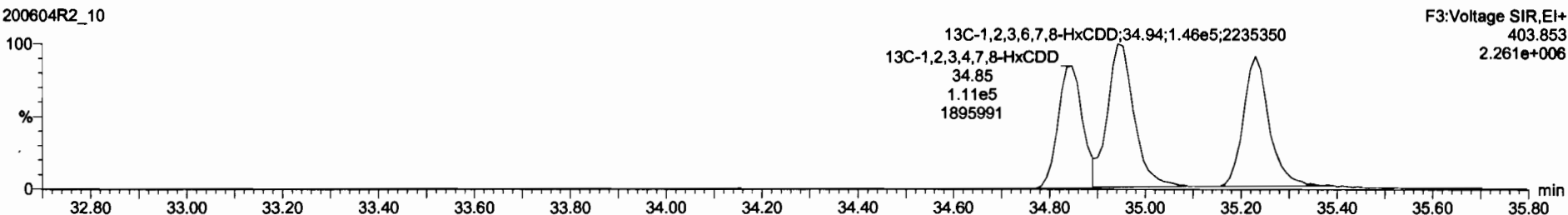


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200604R2_10



200604R2_10



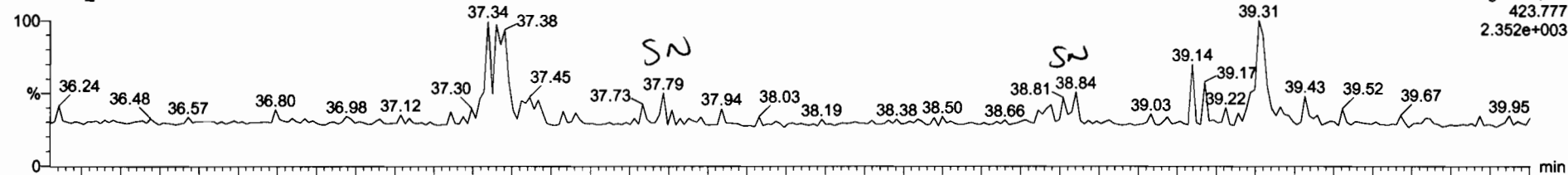
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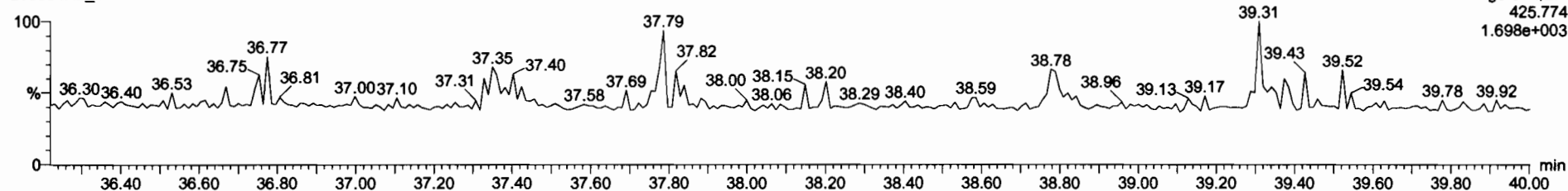
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1,2,3,4,6,7,8-HpCDD

200604R2_10

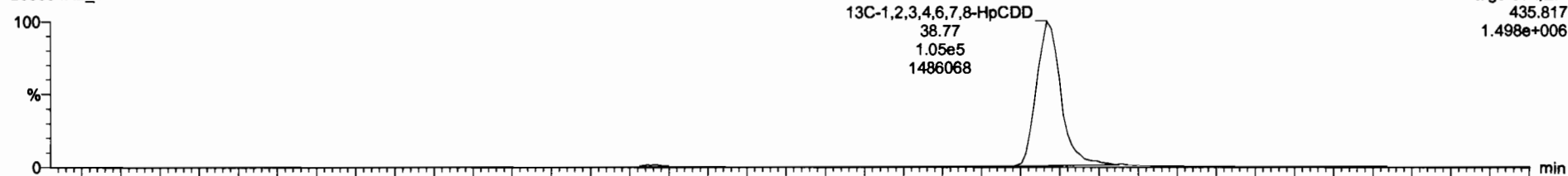


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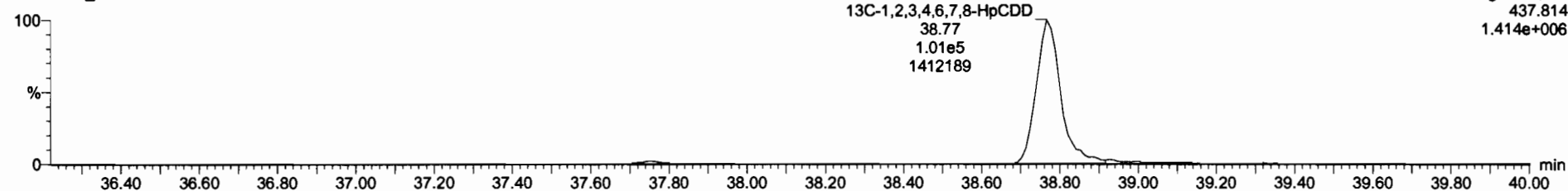


13C-1,2,3,4,6,7,8-HpCDD

200604R2_10



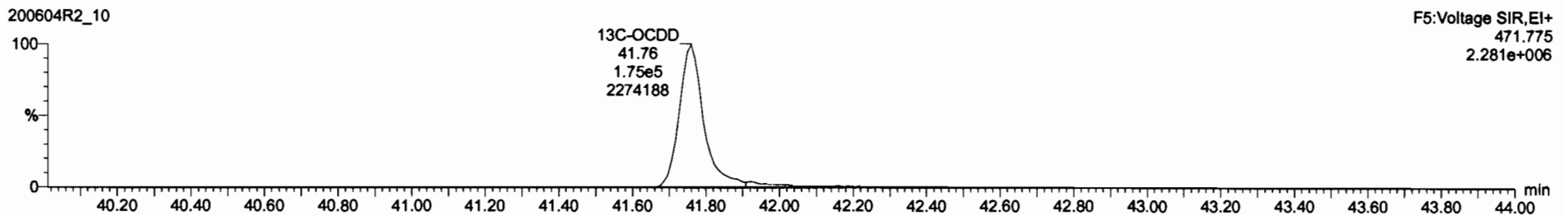
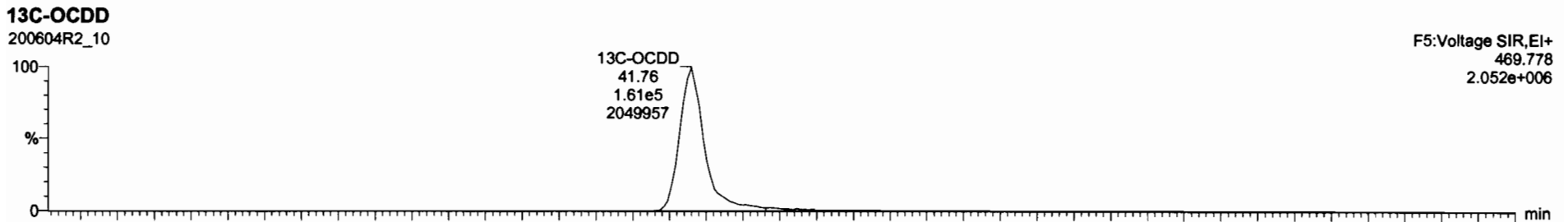
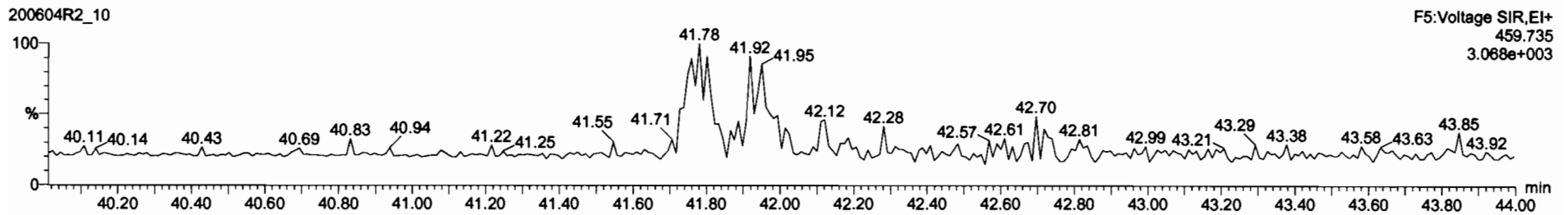
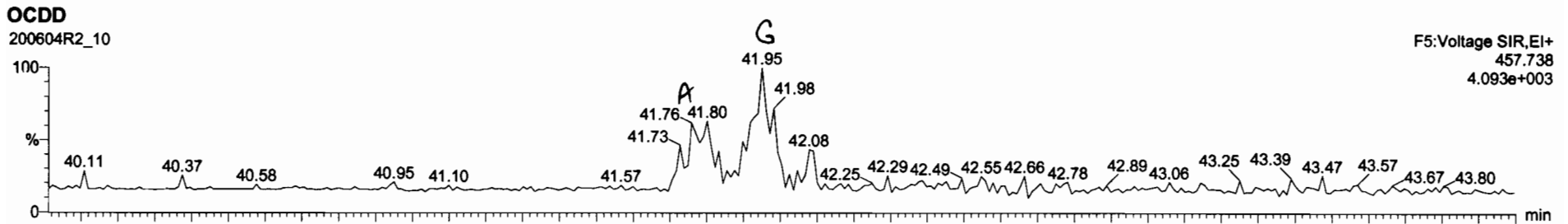
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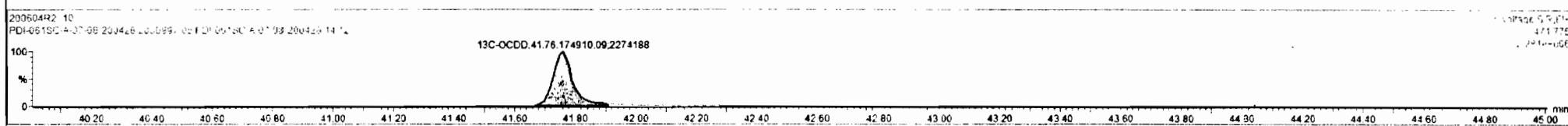
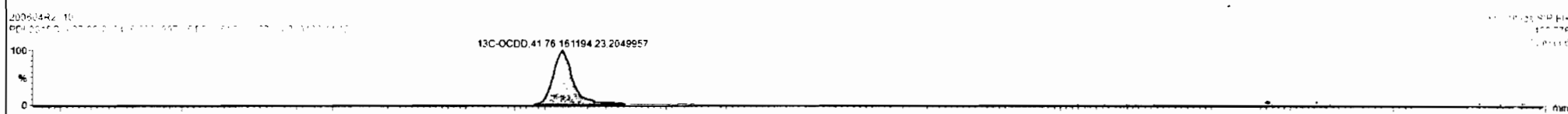
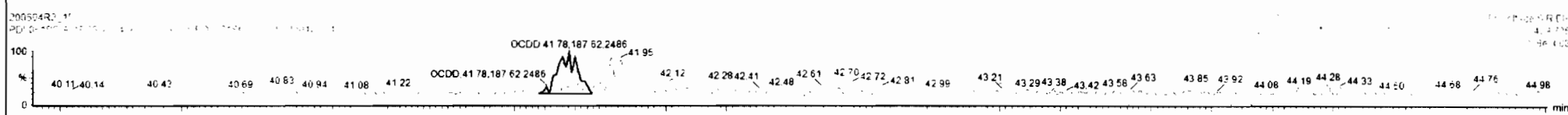
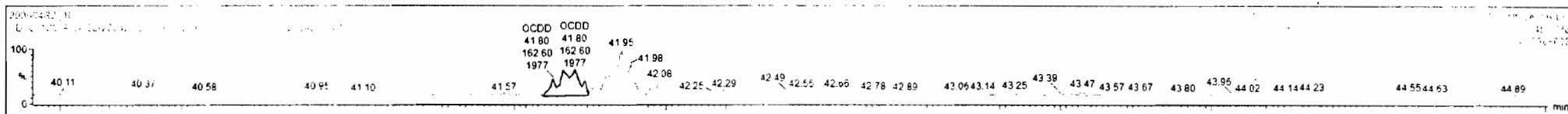
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Name: 200604R2_10, Date: 05-Jun-2020, Time: 02:55:48, ID: 2000997-05 PDI-061SC-A-07-08-200428 14.12, Description: PDI-061SC-A-07-08-200428



Name	Reop	RA	ny	RF	rtVol	RT	RRT	Conc.	%Rec	DL	EMPC
7 OCDD	3.58e2	0.87	NO	0.9126	10.033	41.80	1.001	0.405		0.180	0.455
8 2,3,7,8-TCDF			NO	0.7510	10.033					0.0296	
9 1,2,3,7,8-PeCDF			NO	0.8525	10.033					0.0443	
10 2,3,4,7,8-PeCDF			NO	0.9346	10.033					0.0406	
11 1,2,3,4,7,8-HxCDF			NO	0.8845	10.033					0.0357	
12 1,2,3,6,7,8-HxCDF			NO	0.6892	10.033					0.0319	
13 2,3,4,6,7,8-HxCDF			NO	0.9341	10.033					0.0347	
14 1,2,3,7,8,9-HxCDF			NO	0.8707	10.033					0.0526	
15 1,2,3,4,6,7,8-HpCDF			NO	0.8734	10.033					0.0386	
16 1,2,3,4,7,8,9-HpCDF			NO	1.0126	10.033					0.0437	
17 OCDF			NO	0.8065	10.033					0.134	
18 1,3C-2,3,7,8-TCDD	5.55e5	0.76	NO	1.1563	10.033	26.50	1.025	131	65.9	0.185	
19 1,3C-1,2,3,7,8-PeCDD	3.94e5	0.66	NO	0.8490	10.033	31.47	1.217	127	63.8	0.263	
20 1,3C-1,2,3,4,7,8-HxCDD	2.59e5	1.24	NO	0.7790	10.033	34.85	1.014	118	59.3	0.605	
21 1,3C-1,2,3,6,7,8-HxCDD	3.26e5	1.23	NO	1.0167	10.033	34.95	1.017	114	57.1	0.464	
22 1,3C-1,2,3,7,8,9-HxCDD	2.68e5	1.30	NO	0.9627	10.033	35.23	1.025	113	56.9	0.522	
23 1,3C-1,2,3,4,6,7,8-HpCDD	2.06e5	1.04	NO	0.8892	10.033	33.77	1.126	106	53.4	0.410	
24 1,3C-OCDD	3.36e5	0.92	NO	0.6521	10.033	41.75	1.215	183	45.9	0.607	
25 1,3C-2,3,7,8-TCDF	7.10e5	0.78	NO	1.0590	10.033	25.61	0.991	125	62.5	0.262	
26 1,3C-1,2,3,7,8-PeCPE	6.42e4	1.4	NO	0.7385	10.033	30.18	1.067	190	44.8	0.600	

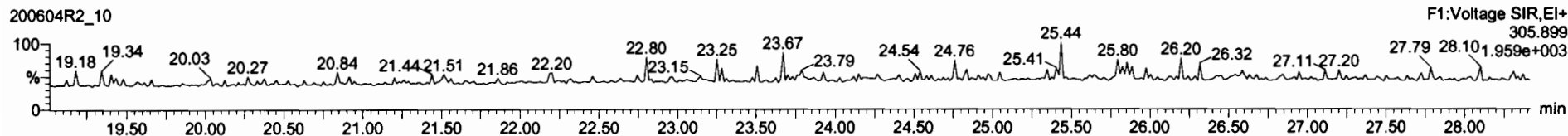
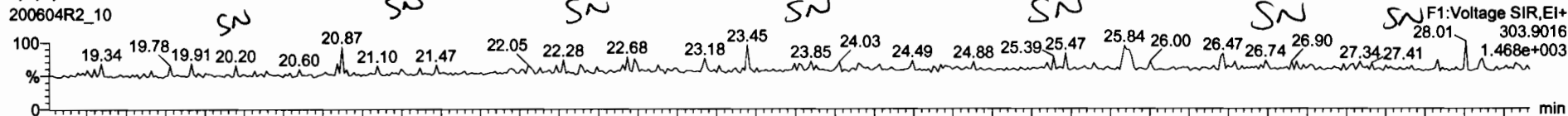


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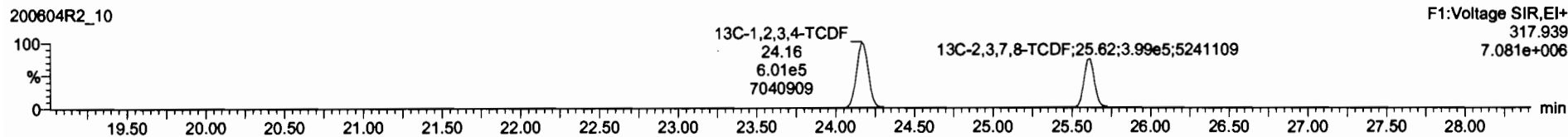
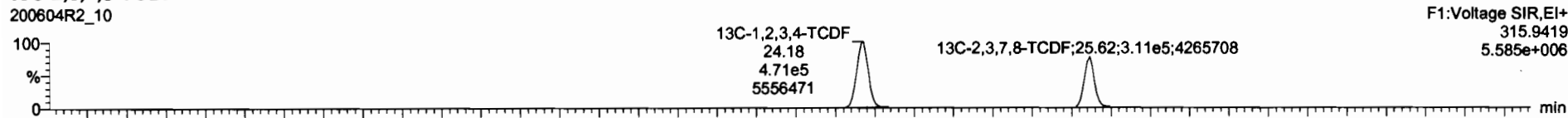
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Name: 200604R2_10, Date: 05-Jun-2020, Time: 02:55:48, ID: 2000997-05 PDI-061SC-A-07-08-200428 14.12, Description: PDI-061SC-A-07-08-200428

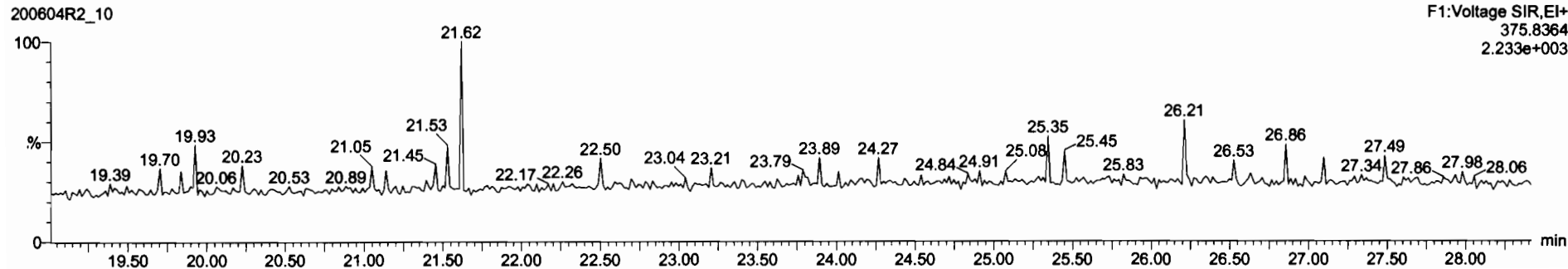
2,3,7,8-TCDF



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



DPE1



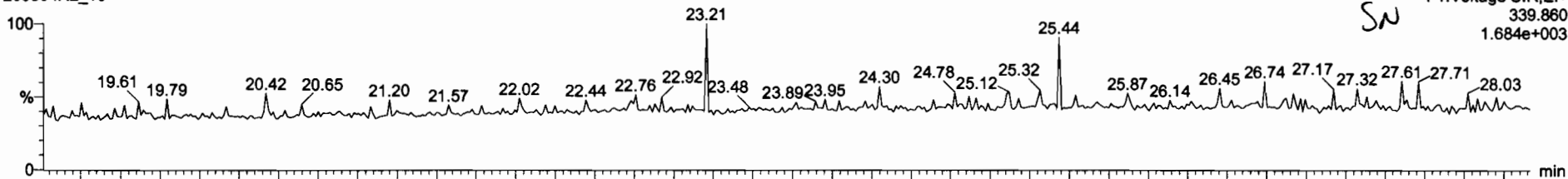
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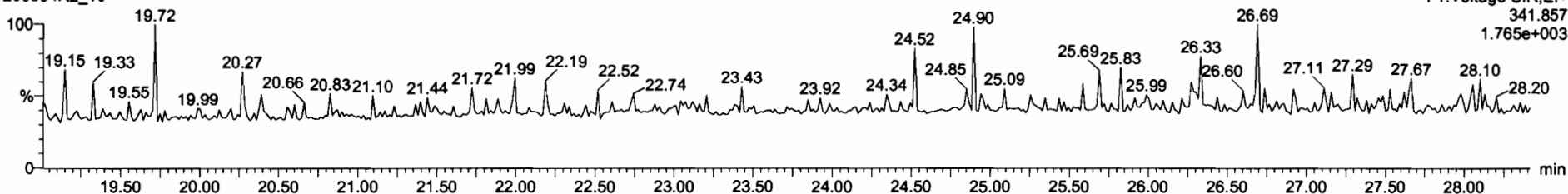
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1st Func. Penta-Furans

200604R2_10

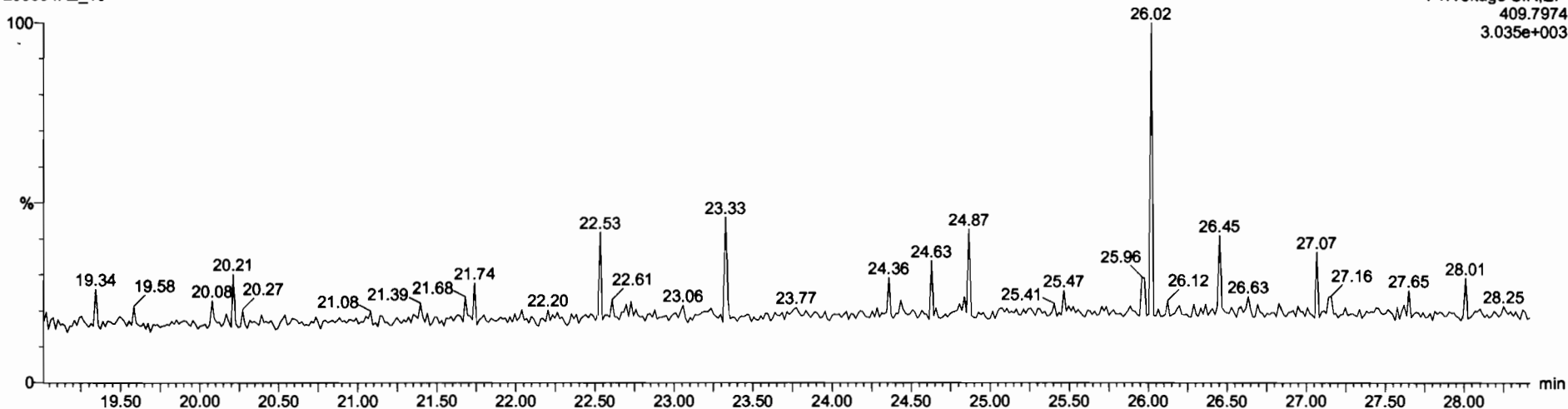


200604R2_10



DPE6

200604R2_10

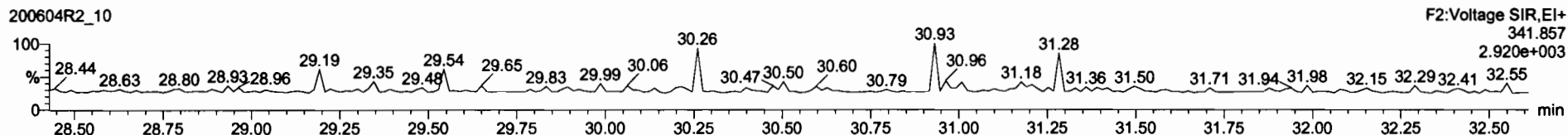
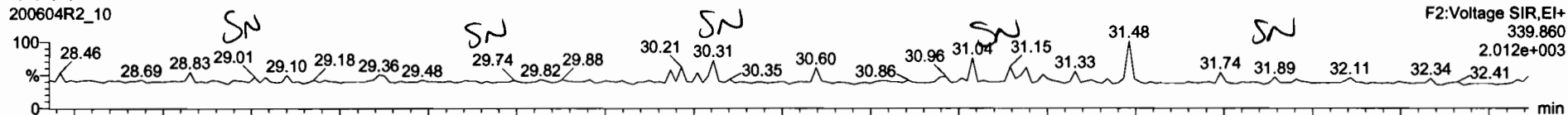


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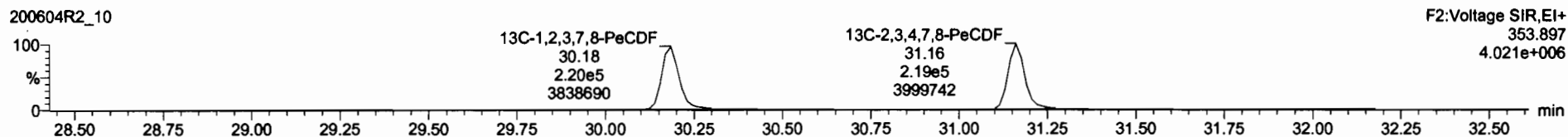
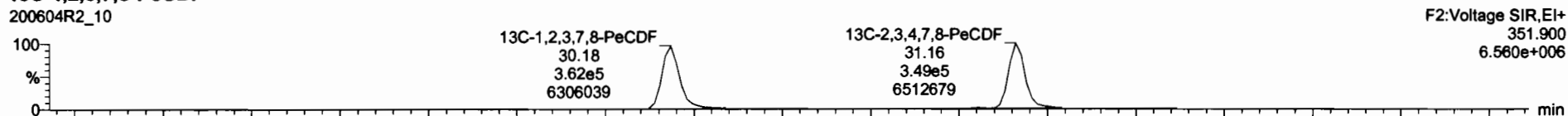
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Name: 200604R2_10, Date: 05-Jun-2020, Time: 02:55:48, ID: 2000997-05 PDI-061SC-A-07-08-200428 14.12, Description: PDI-061SC-A-07-08-200428

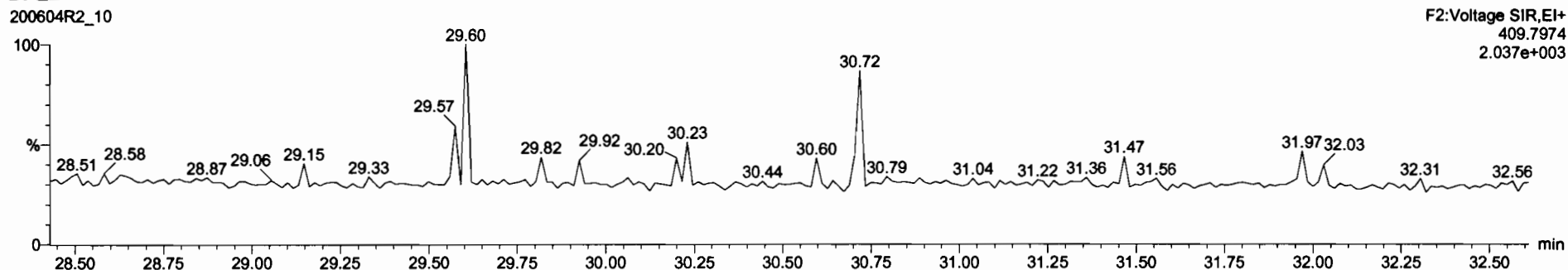
1,2,3,7,8-PeCDF



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



DPE2

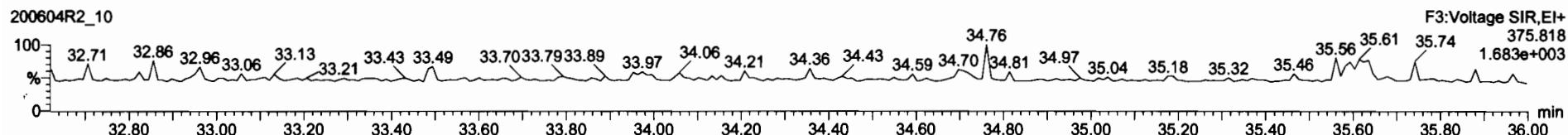
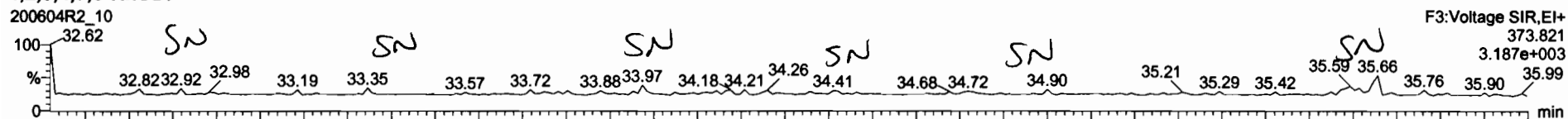


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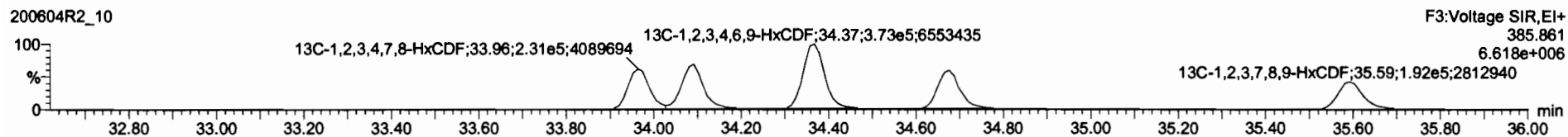
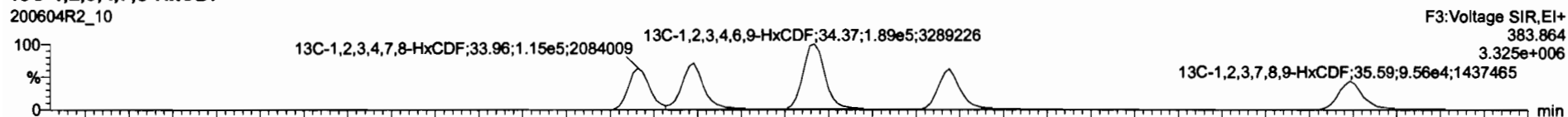
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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_10, Date: 05-Jun-2020, Time: 02:55:48, ID: 2000997-05 PDI-061SC-A-07-08-200428 14.12, Description: PDI-061SC-A-07-08-200428

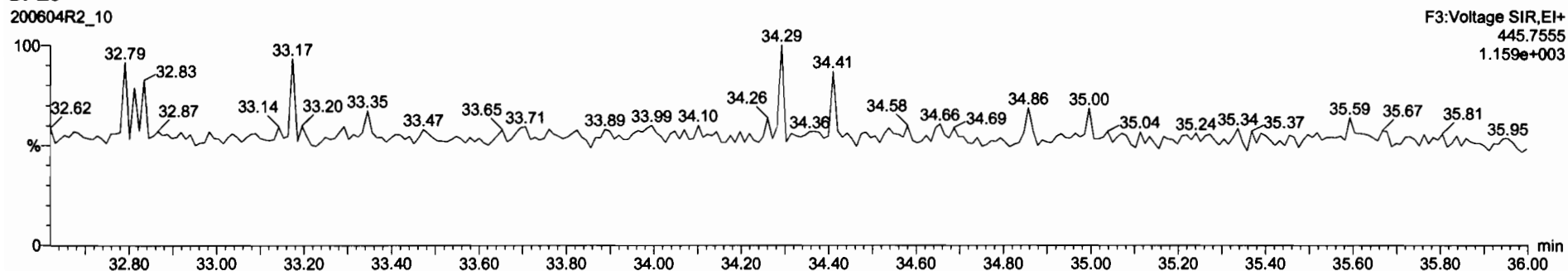
1,2,3,4,7,8-HxCDF



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



DPE3



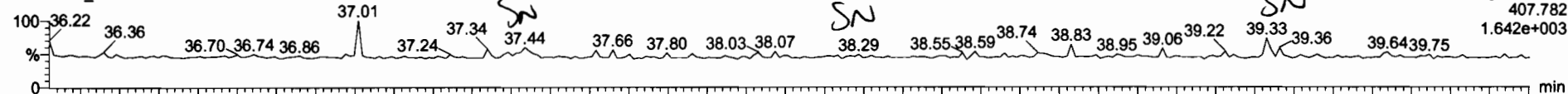
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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

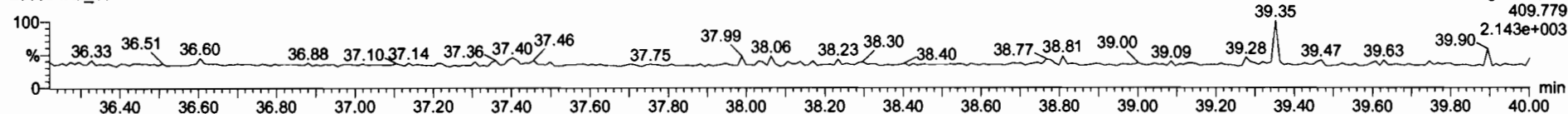
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1,2,3,4,6,7,8-HpCDF

200604R2_10



200604R2_10

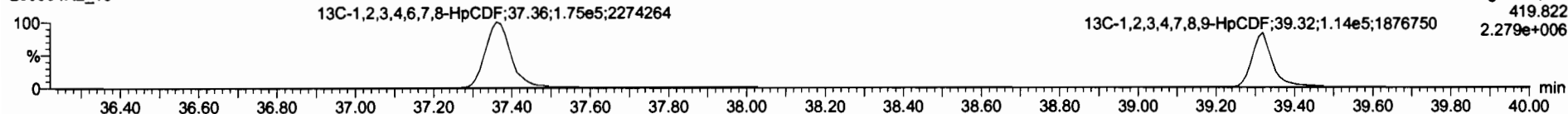


13C-1,2,3,4,6,7,8-HpCDF

200604R2_10

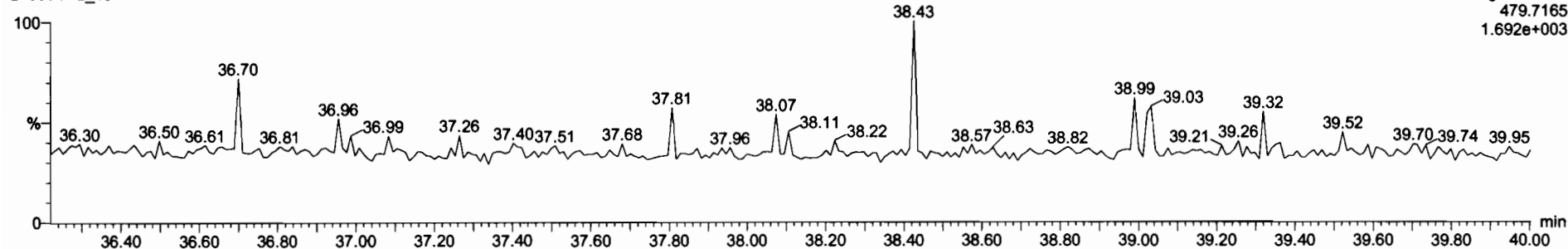


200604R2_10



DPE4

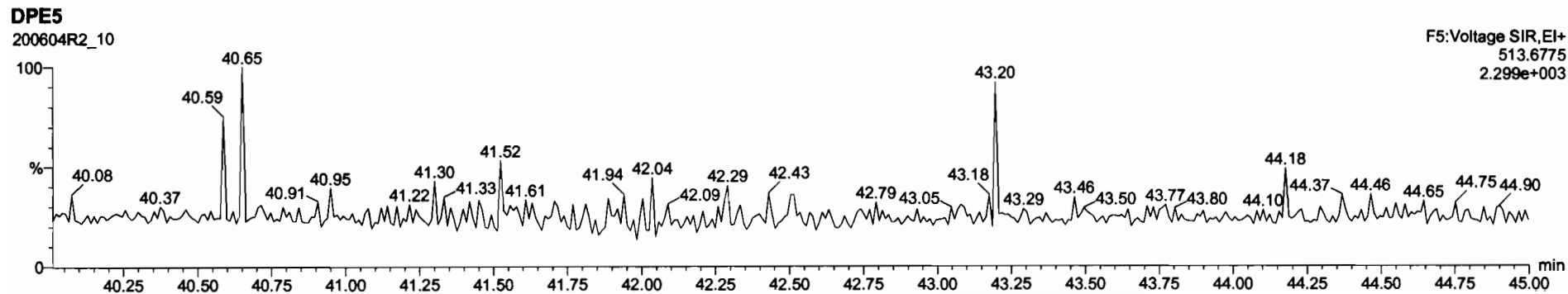
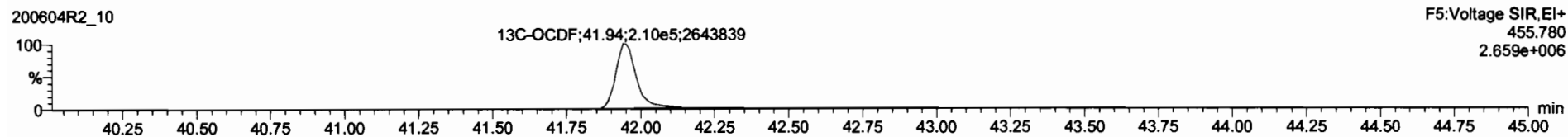
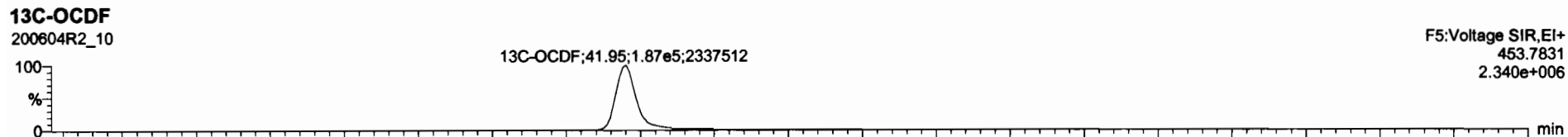
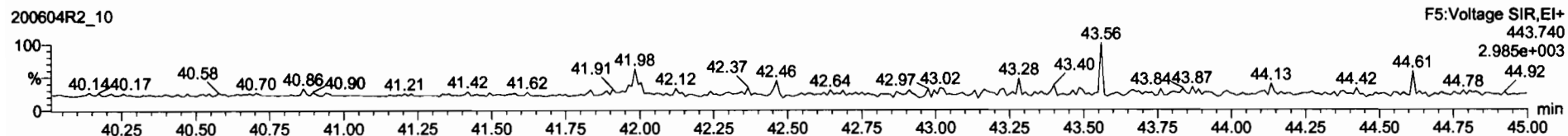
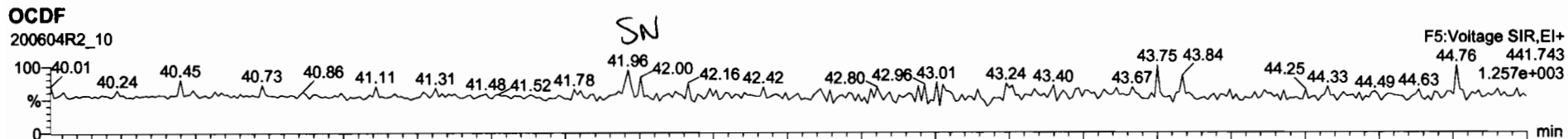
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Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_10, Date: 05-Jun-2020, Time: 02:55:48, ID: 2000997-05 PDI-061SC-A-07-08-200428 14.12, Description: PDI-061SC-A-07-08-200428



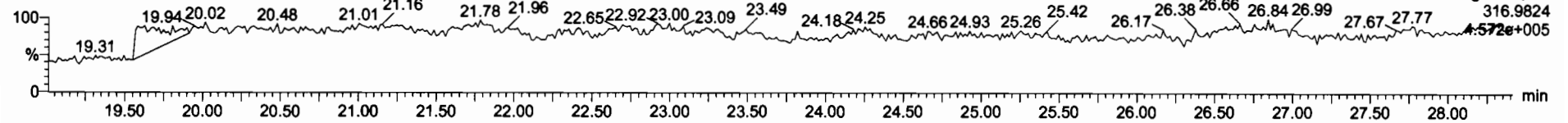
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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_10, Date: 05-Jun-2020, Time: 02:55:48, ID: 2000997-05 PDI-061SC-A-07-08-200428 14.12, Description: PDI-061SC-A-07-08-200428

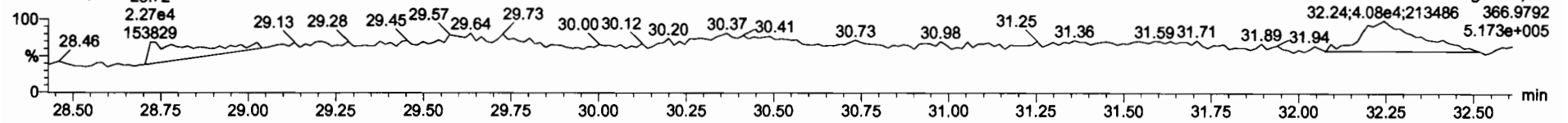
PFK1

200604R2_10



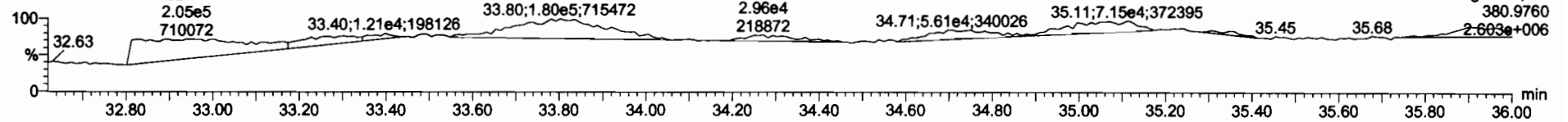
PFK2

200604R2_10



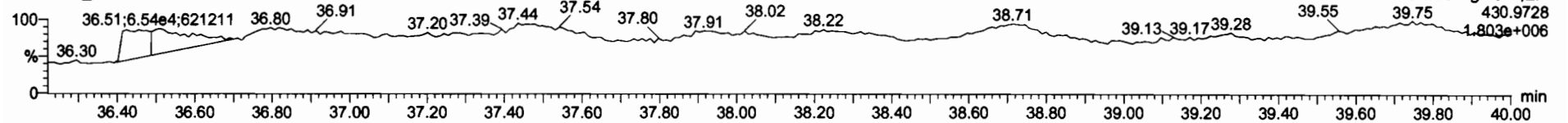
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200604R2_10



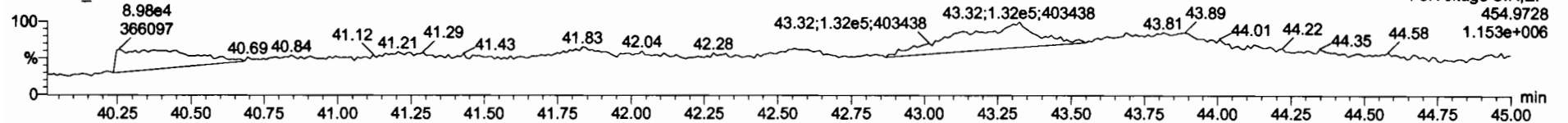
PFK4

200604R2_10



PFK5

200604R2_10



Dataset: U:\VG12.PRO\Results\200604R2\200604R2-11.qld

Last Altered: Monday, June 08, 2020 09:41:04 Pacific Daylight Time
Printed: Monday, June 08, 2020 09:41:54 Pacific Daylight Time

GRB 06/08/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

07/08/2020

Name: 200604R2_11, Date: 05-Jun-2020, Time: 03:42:03, ID: 2000997-06 PDI-061SC-A-08-09-200428 15.8, Description: PDI-061SC-A-08-09-200428

Peak #	Retention Time (min)	Concentration (ppb)	Response	Identification	Library	Library Conc. (ppb)	Library Response	Library Conc. (ppb)	Library Response	Library Conc. (ppb)	Library Response	Library Conc. (ppb)	Library Response	
1	2,3,7,8-TCDD		NO	0.888	10.115	26.531	1.001						0.0460	
2	1,2,3,7,8-PeCDD		NO	0.908	10.115	31.473	1.001						0.0524	
3	1,2,3,4,7,8-HxCDD		NO	1.03	10.115	34.846	1.000						0.0834	
4	1,2,3,6,7,8-HxCDD		NO	0.892	10.115	34.943	1.000						0.0871	
5	1,2,3,7,8,9-HxCDD		NO	0.887	10.115	35.231	1.000						0.102	
6	1,2,3,4,6,7,8-HpCDD	1.49e2	1.00	NO	0.864	10.115	38.768	38.82	1.000	1.002	0.11220		0.0592	0.112
7	OCDD	7.72e2	0.92	NO	0.914	10.115	41.748	41.79	1.000	1.001	0.64650		0.163	0.648
8	2,3,7,8-TCDF		NO	0.751	10.115	25.627	1.001						0.0268	
9	1,2,3,7,8-PeCDF		NO	0.893	10.115	30.190	1.001						0.0295	
10	2,3,4,7,8-PeCDF		NO	0.935	10.115	31.177	1.001						0.0280	
11	1,2,3,4,7,8-HxCDF	8.66e1	0.71	YES	0.884	10.115	33.952	33.96	1.000	1.000	0.030297		0.0100	0.0296
12	1,2,3,6,7,8-HxCDF		NO	0.889	10.115	34.090	1.000						0.0328	
13	2,3,4,6,7,8-HxCDF	4.94e1	1.62	YES	0.934	10.115	34.701	34.69	1.001	1.001	0.020479		0.0155	0.0175
14	1,2,3,7,8,9-HxCDF		NO	0.871	10.115	35.582	1.000						0.0530	
15	1,2,3,4,6,7,8-HpCDF		NO	0.873	10.115	37.387	1.001						0.0517	
16	1,2,3,4,7,8,9-HpCDF		NO	1.01	10.115	39.310	1.000						0.0548	
17	OCDF	3.04e2	0.87	NO	0.806	10.115	41.951	41.97	1.000	1.001	0.24722		0.0740	0.247
18	13C-2,3,7,8-TCDD	7.35e5	0.78	NO	1.16	10.115	26.522	26.50	1.026	1.026	174.23	88.1	0.210	
19	13C-1,2,3,7,8-PeCDD	5.34e5	0.64	NO	0.849	10.115	31.711	31.45	1.227	1.217	172.26	87.1	0.269	
20	13C-1,2,3,4,7,8-HxCDD	3.76e5	1.30	NO	0.779	10.115	34.841	34.84	1.014	1.014	167.10	84.5	0.561	
21	13C-1,2,3,6,7,8-HxCDD	4.63e5	1.30	NO	1.02	10.115	34.955	34.94	1.017	1.017	157.65	79.7	0.430	
22	13C-1,2,3,7,8,9-HxCDD	4.14e5	1.22	NO	0.903	10.115	35.226	35.22	1.025	1.025	158.72	80.3	0.484	
23	13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.01	NO	0.689	10.115	38.751	38.76	1.128	1.128	152.67	77.2	0.527	
24	13C-OCDD	5.17e5	0.90	NO	0.652	10.115	41.775	41.75	1.216	1.215	274.53	69.4	0.525	
25	13C-2,3,7,8-TCDF	9.18e5	0.77	NO	1.06	10.115	25.564	25.60	0.989	0.991	160.80	81.3	0.263	
26	13C-1,2,3,7,8-PeCDF	7.97e5	1.59	NO	0.838	10.115	30.093	30.17	1.165	1.168	176.42	89.2	0.551	
27	13C-2,3,4,7,8-PeCDF	7.65e5	1.61	NO	0.817	10.115	31.047	31.15	1.202	1.205	173.93	88.0	0.565	
28	13C-1,2,3,4,7,8-HxCDF	4.93e5	0.50	NO	1.01	10.115	33.972	33.95	0.989	0.988	169.42	85.7	0.771	
29	13C-1,2,3,6,7,8-HxCDF	5.74e5	0.51	NO	1.17	10.115	34.096	34.08	0.992	0.992	170.37	86.2	0.665	
30	13C-2,3,4,6,7,8-HxCDF	5.10e5	0.50	NO	1.02	10.115	34.670	34.67	1.009	1.009	172.96	87.5	0.760	
31	13C-1,2,3,7,8,9-HxCDF	4.19e5	0.50	NO	0.860	10.115	35.570	35.58	1.035	1.036	168.90	85.4	0.904	

Dataset: U:\VG12.PRO\Results\200604R2\200604R2-11.qld

Last Altered: Monday, June 08, 2020 09:41:04 Pacific Daylight Time

Printed: Monday, June 08, 2020 09:41:54 Pacific Daylight Time

Name: 200604R2_11, Date: 05-Jun-2020, Time: 03:42:03, ID: 2000997-06 PDI-061SC-A-08-09-200428 15.8, Description: PDI-061SC-A-08-09-200428

32	13C-1,2,3,4,6,7,8-HpCDF	3.53e5	0.43	NO	0.774	10.115	37.319	37.35	1.086	1.087	157.86	79.8	0.706
33	13C-1,2,3,4,7,8,9-HpCDF	2.35e5	0.40	NO	0.521	10.115	39.349	39.31	1.145	1.144	156.38	79.1	1.05
34	13C-OCDF	6.03e5	0.89	NO	0.746	10.115	41.946	41.95	1.221	1.221	280.12	70.8	0.578
35	37Cl-2,3,7,8-TCDD	3.21e5			1.04	10.115	26.553	26.51	1.028	1.026	84.875	107	0.0463
36	13C-1,2,3,4-TCDD	7.22e5	0.78	NO	1.00	10.115	25.890	25.84	1.000	1.000	197.74	100	0.242
37	13C-1,2,3,4-TCDF	1.07e6	0.79	NO	1.00	10.115	24.360	24.16	1.000	1.000	197.74	100	0.279
38	13C-1,2,3,4,6,9-HxCDF	5.71e5	0.51	NO	1.00	10.115	34.420	34.36	1.000	1.000	197.74	100	0.777
39	Total Tetra-Dioxins				0.888	10.115	24.620		0.000				0.0258
40	Total Penta-Dioxins				0.908	10.115	29.960		0.000				0.0243
41	Total Hexa-Dioxins				0.892	10.115	33.635		0.000		0.051183		0.0435 0.0512
42	Total Hepta-Dioxins				0.864	10.115	37.640		0.000		0.11220		0.0592 0.206
43	Total Tetra-Furans				0.751	10.115	23.610		0.000				0.0122
44	1st Func. Penta-Furans				0.893	10.115	27.580		0.000				0.00730
45	Total Penta-Furans				0.893	10.115	29.275		0.000				0.0115
46	Total Hexa-Furans				0.934	10.115	33.555		0.000		0.00000		0.0165 0.0471
47	Total Hepta-Furans				0.873	10.115	37.835		0.000				0.0291

Dataset: U:\VG12.PRO\Results\200604R2\200604R2-11.qld

Last Altered: Monday, June 08, 2020 09:41:04 Pacific Daylight Time

Printed: Monday, June 08, 2020 09:41:54 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R2_11, Date: 05-Jun-2020, Time: 03:42:03, ID: 2000997-06 PDI-061SC-A-08-09-200428 15.8, Description: PDI-061SC-A-08-09-200428

Tetra-Dioxins

	m1	m2	m3	m4	m5	m6	m7	m8	m9	m10	m11	m12
Total Tetra-Dioxins	33.33	1.231e3	1.204e3	5.037e1	4.601e1	1.09	NO	9.638e1	0.051183	0.051183	0.0435	

Penta-Dioxins

	m1	m2	m3	m4	m5	m6	m7	m8	m9	m10	m11	m12
Total Penta-Dioxins	37.79	1.334e3	2.019e3	6.375e1	1.081e2	0.59	YES	0.000e0	0.00000	0.094237	0.0592	

Hexa-Dioxins

	m1	m2	m3	m4	m5	m6	m7	m8	m9	m10	m11	m12
Total Hexa-Dioxins	38.82	1.551e3	1.336e3	7.441e1	7.447e1	1.00	NO	1.489e2	0.11220	0.11220	0.0592	

Hepta-Dioxins

	m1	m2	m3	m4	m5	m6	m7	m8	m9	m10	m11	m12
Total Hepta-Dioxins	37.79	1.334e3	2.019e3	6.375e1	1.081e2	0.59	YES	0.000e0	0.00000	0.094237	0.0592	
1,2,3,4,6,7,8-HpCDD	38.82	1.551e3	1.336e3	7.441e1	7.447e1	1.00	NO	1.489e2	0.11220	0.11220	0.0592	

Tetra-Furans

	m1	m2	m3	m4	m5	m6	m7	m8	m9	m10	m11	m12
Total Tetra-Furans												

Penta-Furans function 1

	m1	m2	m3	m4	m5	m6	m7	m8	m9	m10	m11	m12
Total Penta-Furans function 1												

Dataset: U:\VG12.PRO\Results\200604R2\200604R2-11.qld

Last Altered: Monday, June 08, 2020 09:41:04 Pacific Daylight Time
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Name: 200604R2_11, Date: 05-Jun-2020, Time: 03:42:03, ID: 2000997-06 PDI-061SC-A-08-09-200428 15.8, Description: PDI-061SC-A-08-09-200428

Penta-Furans

Peak	Height	m2 Height	m1	Area	Area	Area	Area	Area	Area	Area	Area

Hexa-Furans

Peak	Height	m2 Height	m1	Area	Area	Area	Area	Area	Area	Area	Area
1,2,3,4,7,8-HxCDF	33.96	1.149e3	1.689e3	3.607e1	5.053e1	0.71	YES	8.661e1	0.00000	0.029568	0.0160
2,3,4,6,7,8-HxCDF	34.69	7.200e2	5.460e2	3.051e1	1.885e1	1.62	YES	4.936e1	0.00000	0.017520	0.0155

Hepta-Furans

Peak	Height	m2 Height	m1	Area	Area	Area	Area	Area	Area	Area	Area

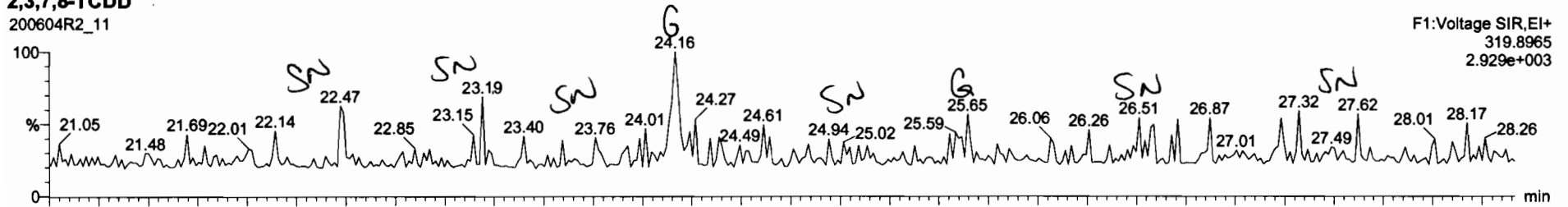
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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

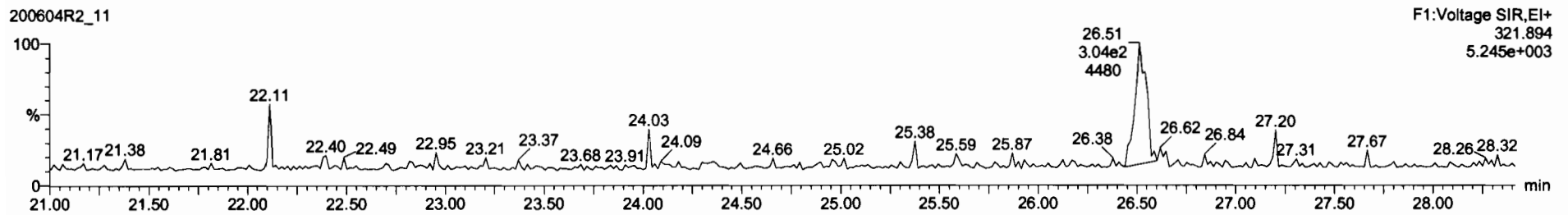
Name: 200604R2_11, Date: 05-Jun-2020, Time: 03:42:03, ID: 2000997-06 PDI-061SC-A-08-09-200428 15.8, Description: PDI-061SC-A-08-09-200428

2,3,7,8-TCDD

200604R2_11

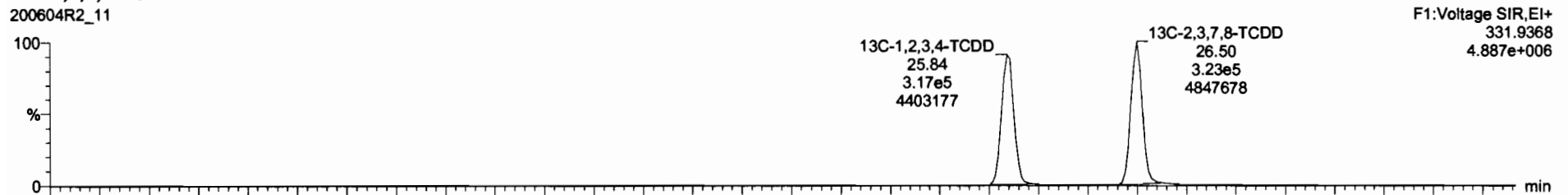


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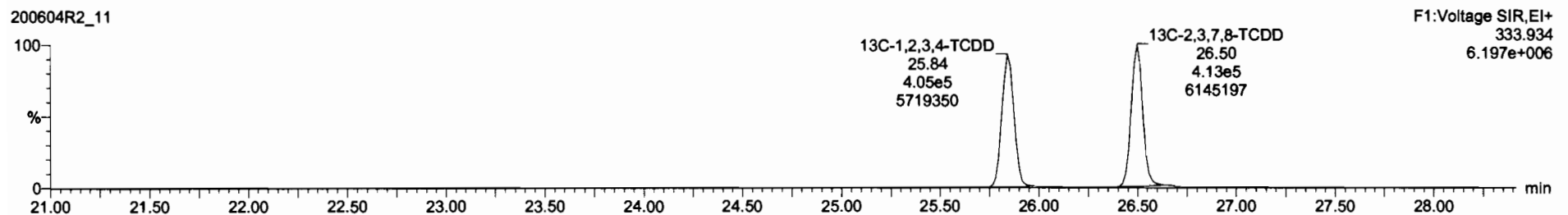


13C-2,3,7,8-TCDD

200604R2_11



200604R2_11



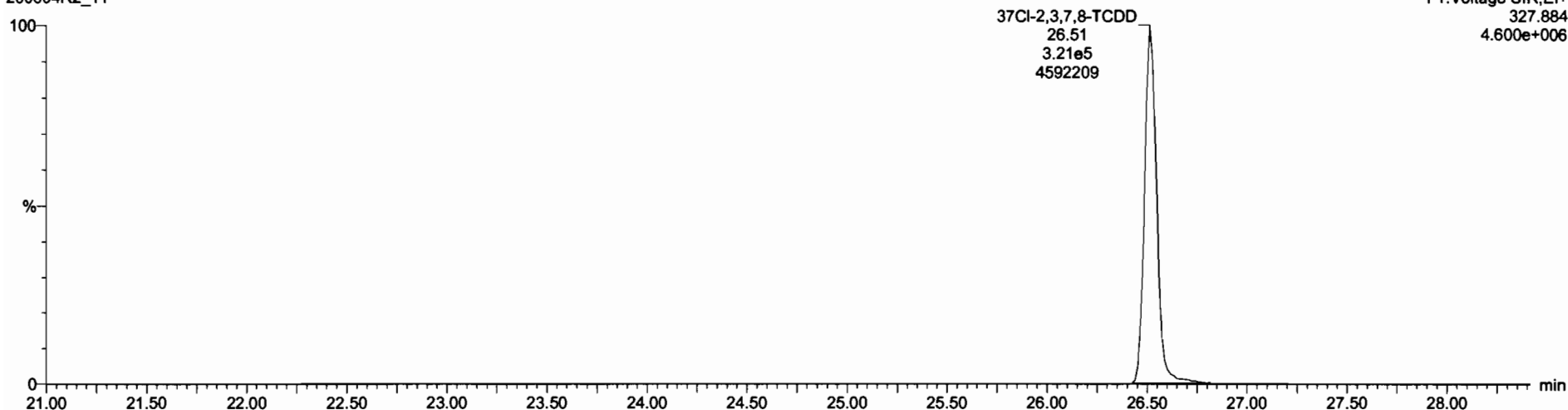
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Name: 200604R2_11, Date: 05-Jun-2020, Time: 03:42:03, ID: 2000997-06 PDI-061SC-A-08-09-200428 15.8, Description: PDI-061SC-A-08-09-200428

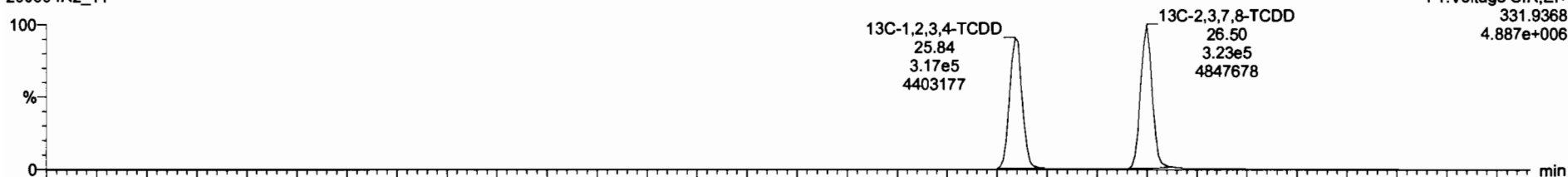
37Cl-2,3,7,8-TCDD

200604R2_11

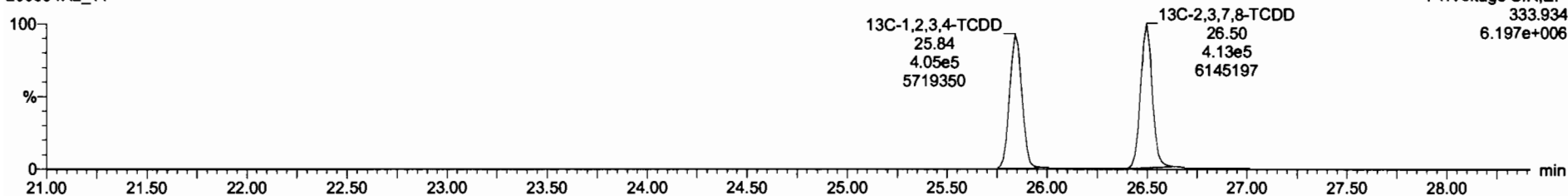


13C-1,2,3,4-TCDD

200604R2_11



200604R2_11



Dataset: Untitled

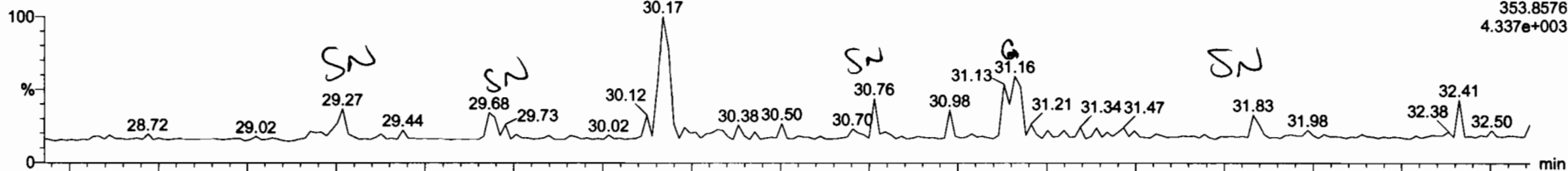
Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time

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Name: 200604R2_11, Date: 05-Jun-2020, Time: 03:42:03, ID: 2000997-06 PDI-061SC-A-08-09-200428 15.8, Description: PDI-061SC-A-08-09-200428

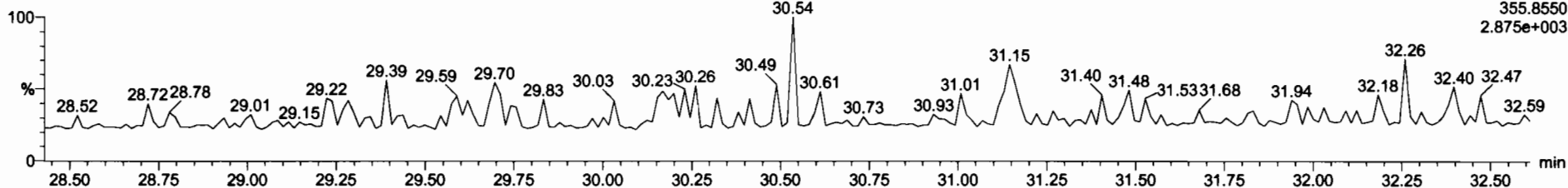
1,2,3,7,8-PeCDD

200604R2_11



F2:Voltage SIR,EI+
353.8576
4.337e+003

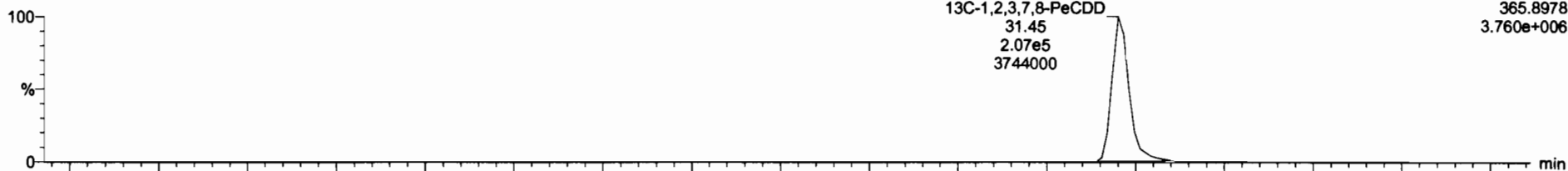
200604R2_11



F2:Voltage SIR,EI+
355.8550
2.875e+003

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

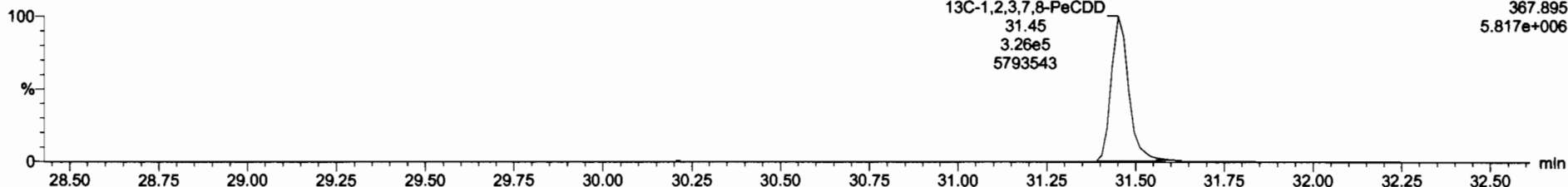
200604R2_11



13C-1,2,3,7,8-PeCDD
31.45
2.07e5
3744000

F2:Voltage SIR,EI+
365.8978
3.760e+006

200604R2_11



13C-1,2,3,7,8-PeCDD
31.45
3.26e5
5793543

F2:Voltage SIR,EI+
367.895
5.817e+006

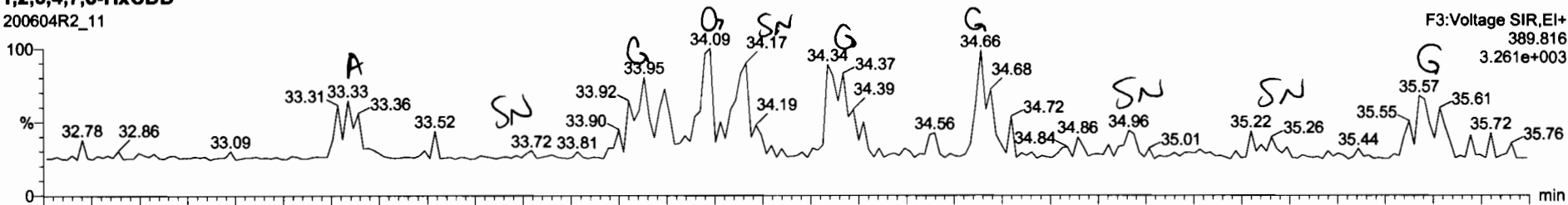
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Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

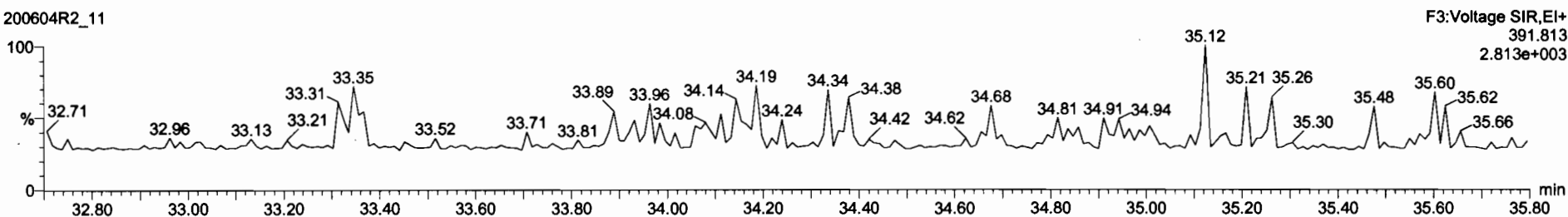
Name: 200604R2_11, Date: 05-Jun-2020, Time: 03:42:03, ID: 2000997-06 PDI-061SC-A-08-09-200428 15.8, Description: PDI-061SC-A-08-09-200428

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

200604R2_11

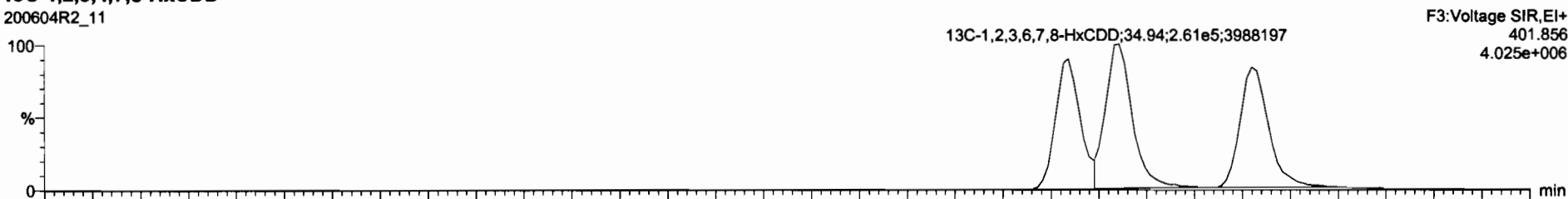


200604R2_11

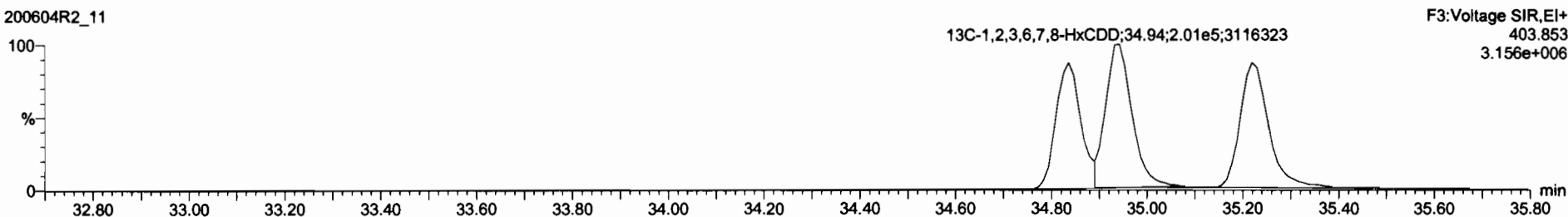


13C-1,2,3,4,7,8-HxCDD

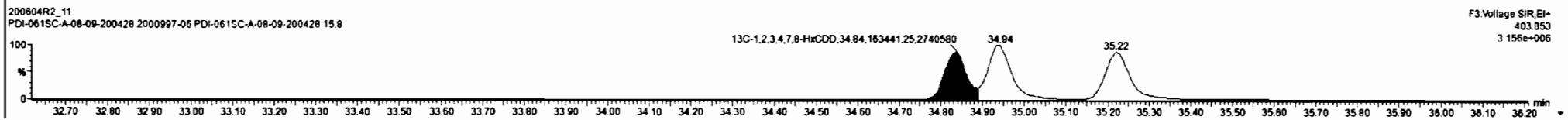
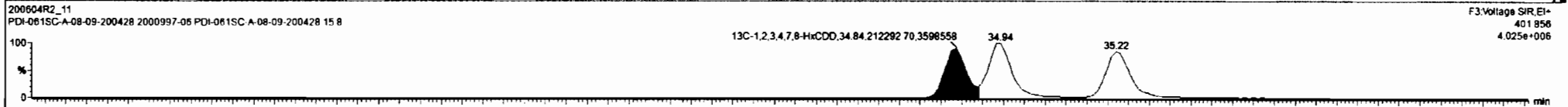
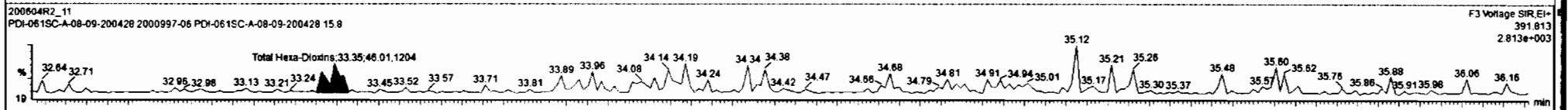
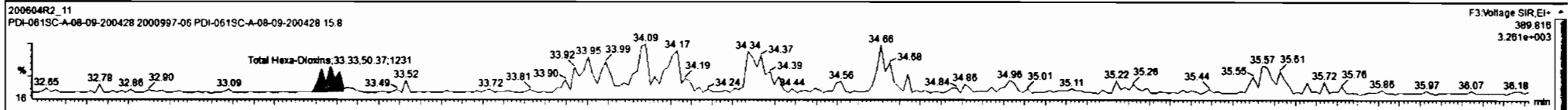
200604R2_11



200604R2_11



Component	Concentration	Retention Time	Area	Height	Width	Volume	CL	EMPC
Total Penta-Dioxins	0.8081	10.115					0.0243	
Total Hepta-Dioxins	0.8639	10.115				0.112	0.0592	0.206
Total Tetra-Furans	0.7510	10.115					0.0122	
1st Func. Penta-Furans	0.8025	10.115					0.00730	
Total Penta-Furans	0.8625	10.115					0.0115	
Total Hexa-Furans	0.9341	10.115				0.000	0.0165	0.0470
Total Hepta-Furans	0.8734	10.115					0.0291	
PFK1								
PFK2								
PFK3								
PFK4								
PFK5								
DPE1								
DPE2								
DPE3								
DPE4								
DPE5								
DPE6								



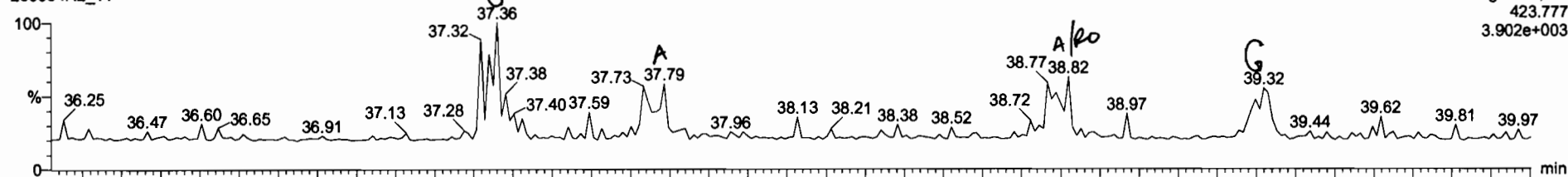
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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

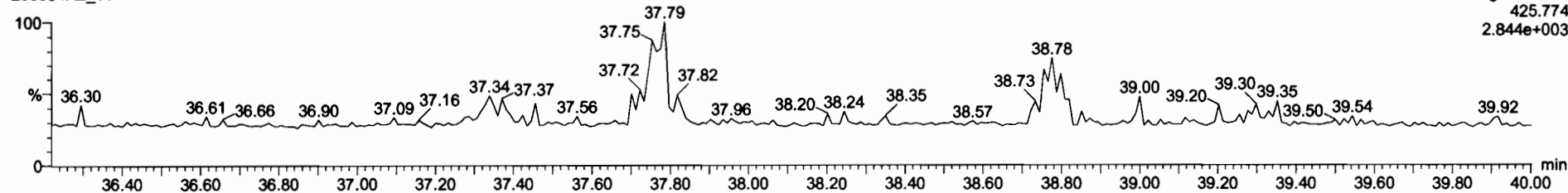
Name: 200604R2_11, Date: 05-Jun-2020, Time: 03:42:03, ID: 2000997-06 PDI-061SC-A-08-09-200428 15.8, Description: PDI-061SC-A-08-09-200428

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

200604R2_11

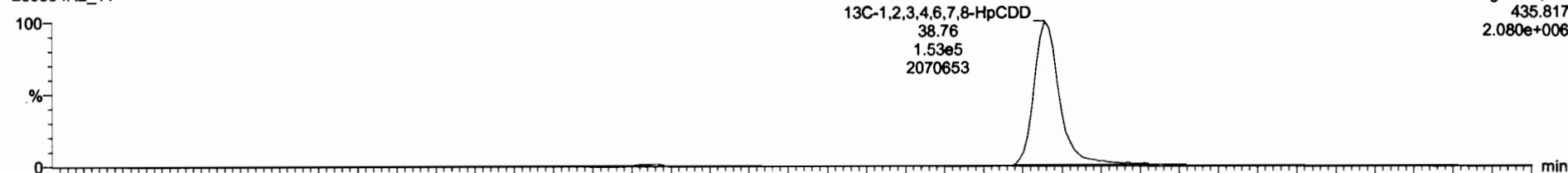


200604R2_11

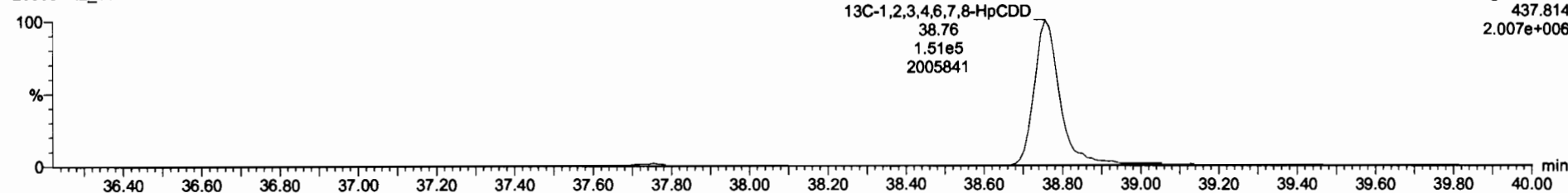


13C-1,2,3,4,6,7,8-HpCDD

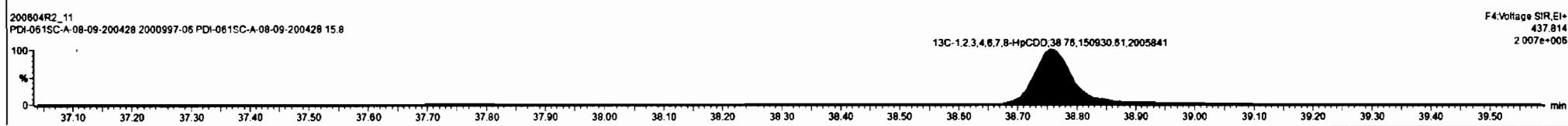
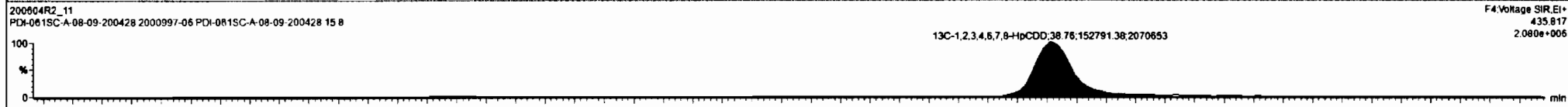
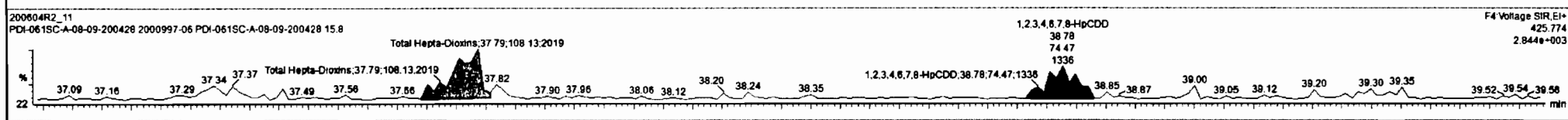
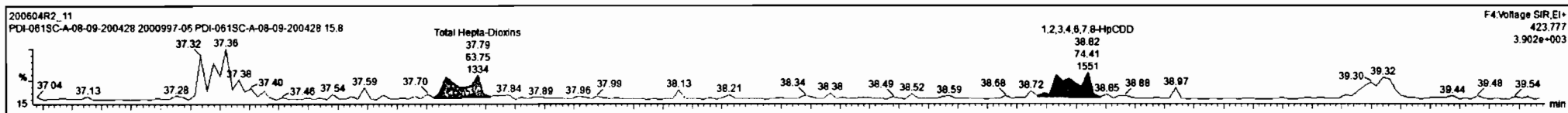
200604R2_11



200604R2_11



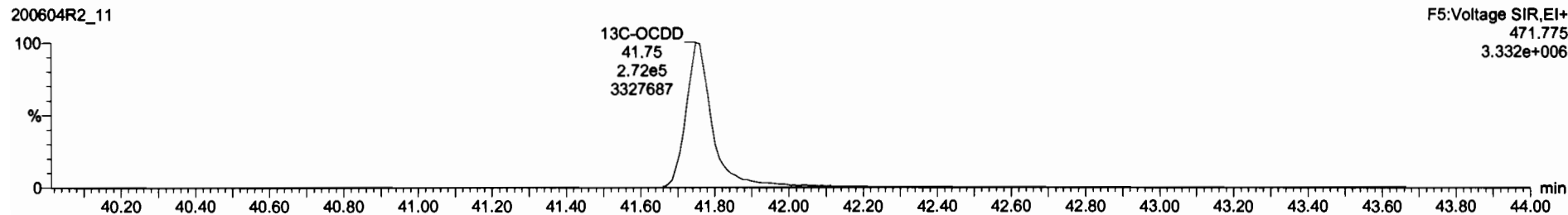
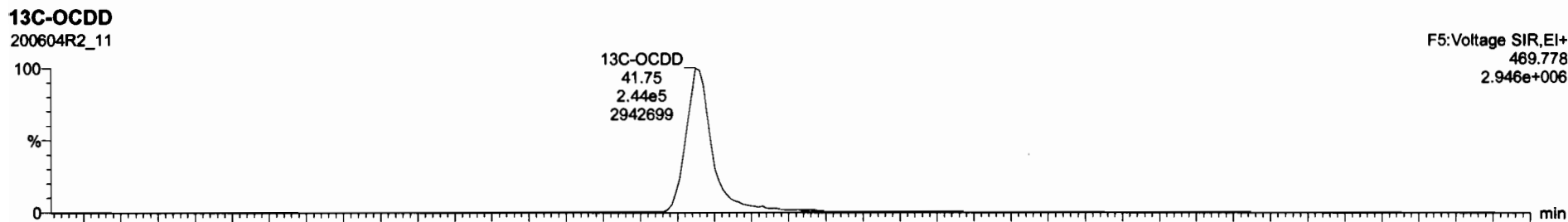
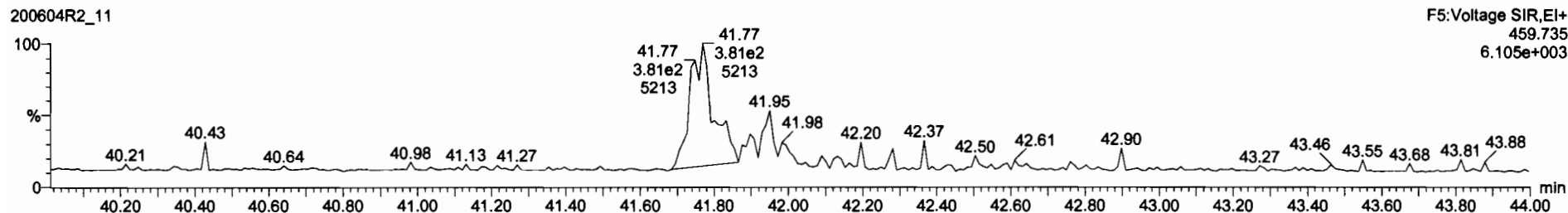
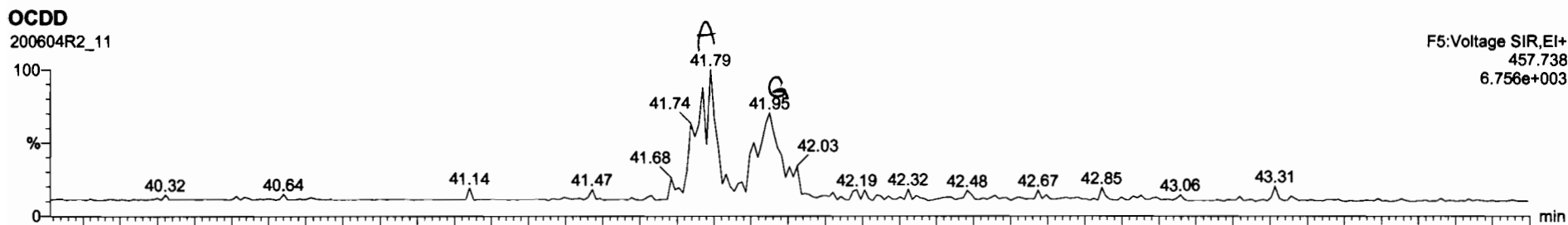
Class	Conc	Unit	DL	EMPC
Total Penta-Dioxine	0.9081	10.115	0.0243	
Total Hexa-Dioxine	0.8823	10.115	0.0435	0.0510
Total Tetra-Furans	0.7519	10.115	0.0122	
1st Func. Penta-Furans	0.8825	10.115	0.00730	
Total Penta-Furans	0.8825	10.115	0.0115	
Total Hexa-Furans	0.9341	10.115	0.0165	0.0470
Total Hepta-Furans	0.8734	10.115	0.0291	
PFK1				
PFK2				
PFK3				
PFK4				
PFK5				
DPE1				
DPE2				
DPE3				
DPE4				
DPE5				
DPE6				



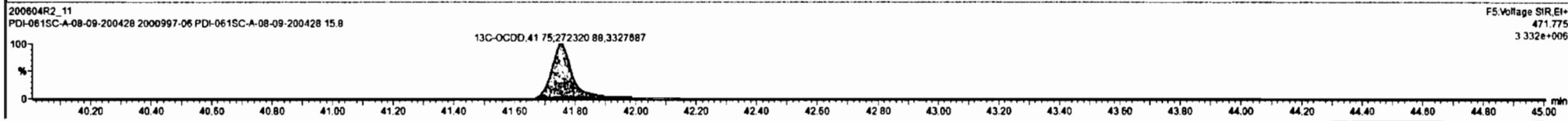
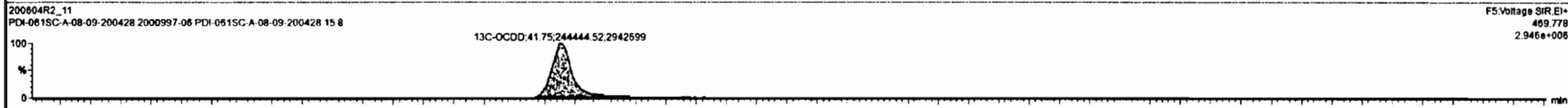
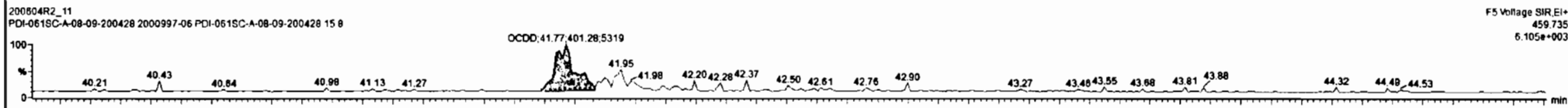
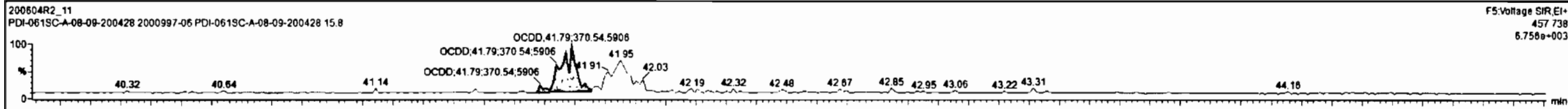
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Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_11, Date: 05-Jun-2020, Time: 03:42:03, ID: 2000997-06 PDI-061SC-A-08-09-200428 15.8, Description: PDI-061SC-A-08-09-200428



Compound	Concentration	Response	Method	Retention Time	Area	Height	Width	Height	Area	Height	Width
2,3,7,8-TCDF			NO	0.7510	10.115				0.0268		
1,2,3,7,8-PeCDF			NO	0.8925	10.115				0.0295		
2,3,4,7,8-PeCDF			NO	0.9348	10.115				0.0280		
1,2,3,4,7,8-HxCDF	8.89e1	0.71	YES	0.8845	10.115	33.98	1.000	0.0393	0.0160	0.0300	
1,2,3,6,7,8-HxCDF			NO	0.8862	10.115				0.0328		
2,3,4,6,7,8-HxCDF	4.94e1	1.62	YES	0.9341	10.115	34.68	1.001	0.0205	0.0155	0.0180	
1,2,3,7,8,9-HxCDF			NO	0.8707	10.115				0.0530		
1,2,3,4,6,7,8-HpCDF			NO	0.8734	10.115				0.0517		
1,2,3,4,7,8,9-HpCDF			NO	1.0128	10.115				0.0548		
OCDF	3.04e2	0.88	NO	0.9085	10.115	41.97	1.000	0.247	0.0740	0.247	
13C-2,3,7,8-TCDD	7.35e5	0.78	NO	1.1563	10.115	28.50	1.028	174	88.1	0.210	
13C-1,2,3,7,8-PeCDD	5.34e5	0.64	NO	0.8490	10.115	31.45	1.217	172	87.1	0.269	
13C-1,2,3,4,7,8-HxCDD	3.76e5	1.30	NO	0.7790	10.115	34.84	1.014	167	84.5	0.561	
13C-1,2,3,6,7,8-HxCDD	4.83e5	1.30	NO	1.0167	10.115	34.94	1.017	158	79.7	0.430	
13C-1,2,3,7,8,9-HxCDD	4.14e5	1.22	NO	0.8027	10.115	35.22	1.025	159	80.3	0.484	
13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.01	NO	0.8892	10.115	38.78	1.128	153	77.2	0.527	
13C-OCDD	5.17e5	0.90	NO	0.8521	10.115	41.75	1.215	275	69.4	0.525	
13C-2,3,7,8-TCDF	9.18e5	0.77	NO	1.0590	10.115	25.60	0.991	161	81.3	0.263	



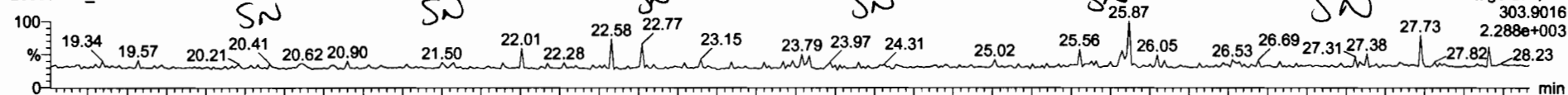
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Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

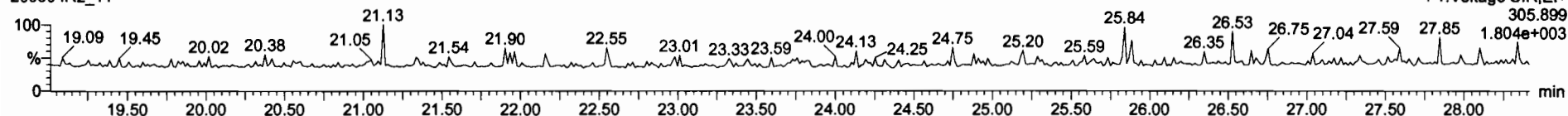
Name: 200604R2_11, Date: 05-Jun-2020, Time: 03:42:03, ID: 2000997-06 PDI-061SC-A-08-09-200428 15.8, Description: PDI-061SC-A-08-09-200428

2,3,7,8-TCDF

200604R2_11

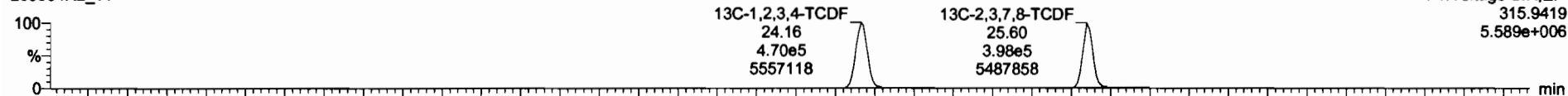


200604R2_11

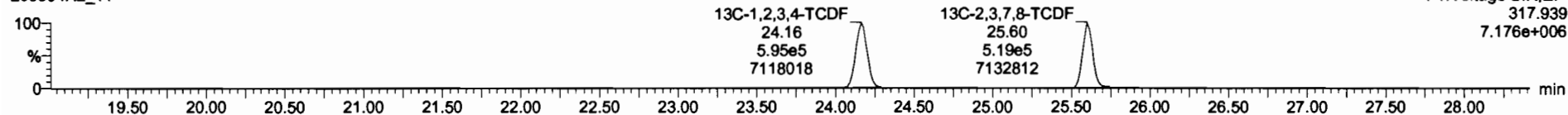


13C-2,3,7,8-TCDF

200604R2_11

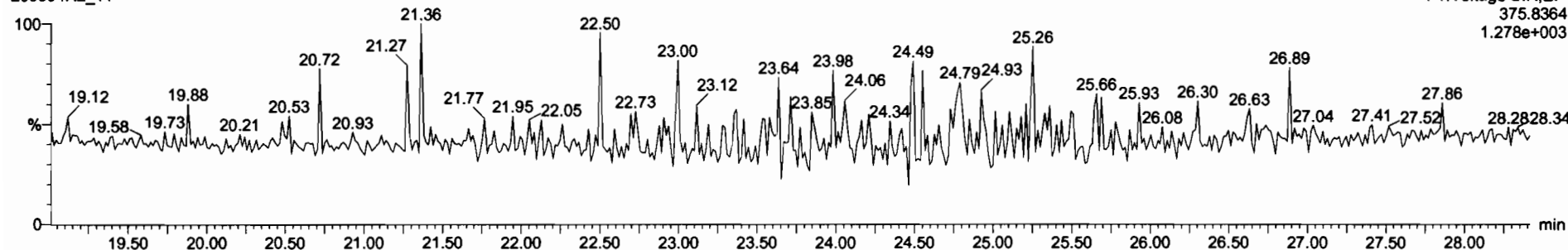


200604R2_11



DPE1

200604R2_11



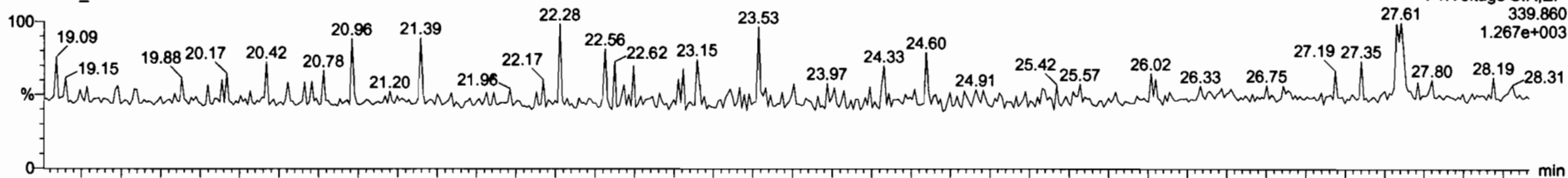
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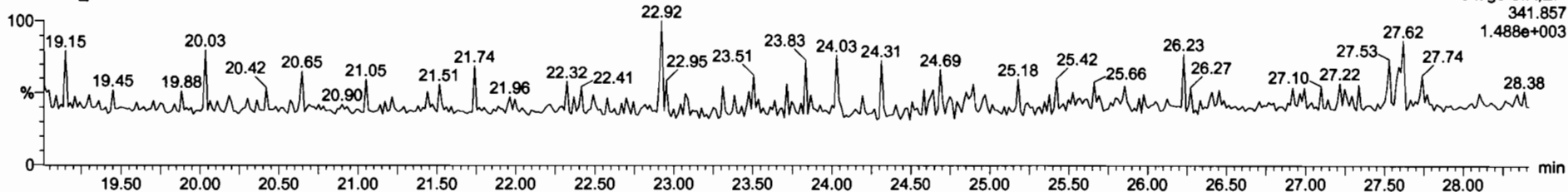
Name: 200604R2_11, Date: 05-Jun-2020, Time: 03:42:03, ID: 2000997-06 PDI-061SC-A-08-09-200428 15.8, Description: PDI-061SC-A-08-09-200428

1st Func. Penta-Furans

200604R2_11

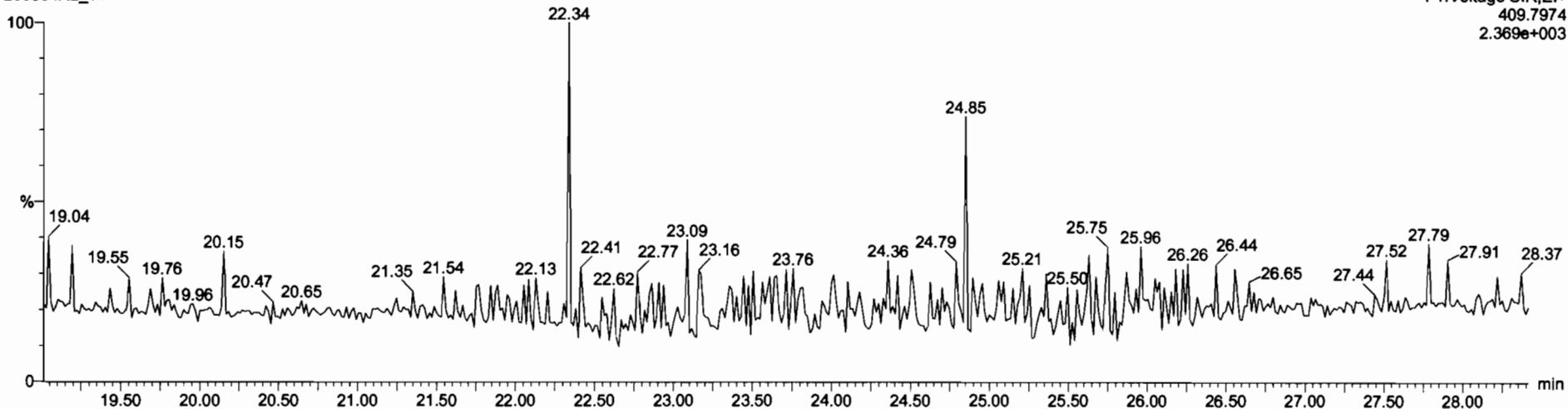


200604R2_11



DPE6

200604R2_11



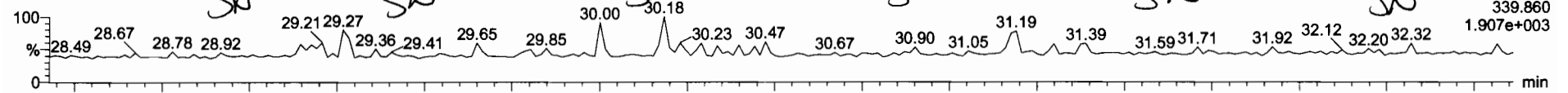
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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

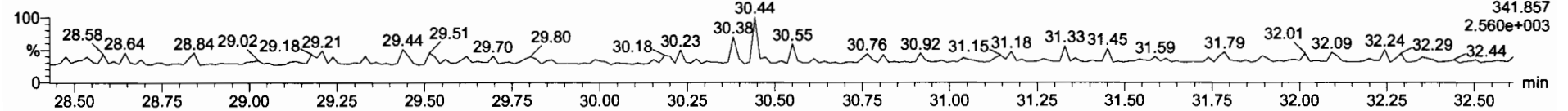
Name: 200604R2_11, Date: 05-Jun-2020, Time: 03:42:03, ID: 2000997-06 PDI-061SC-A-08-09-200428 15.8, Description: PDI-061SC-A-08-09-200428

1,2,3,7,8-PeCDF

200604R2_11

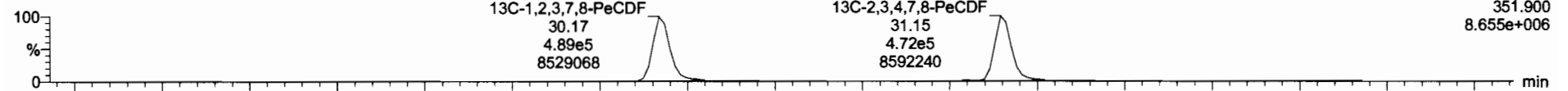


200604R2_11

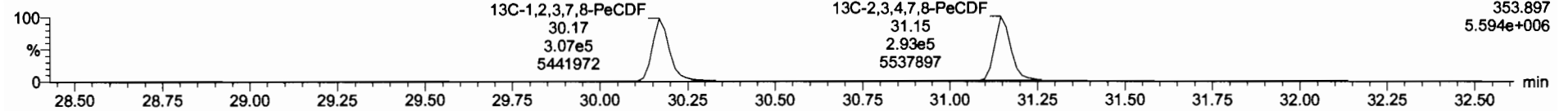


13C-1,2,3,7,8-PeCDF

200604R2_11

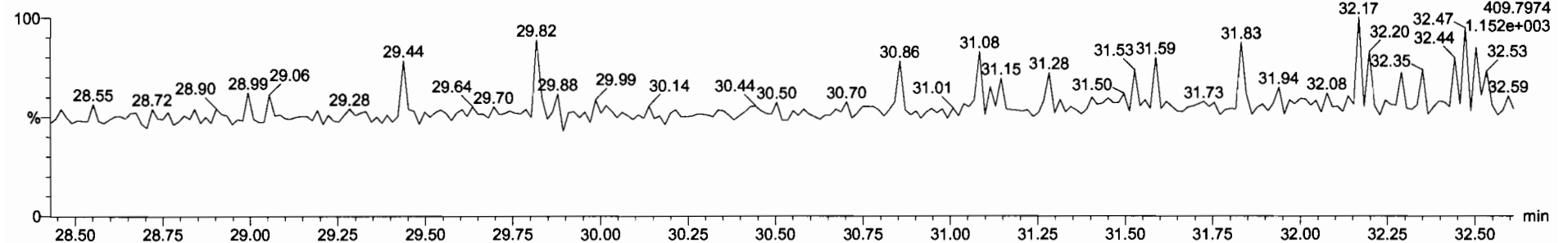


200604R2_11



DPE2

200604R2_11

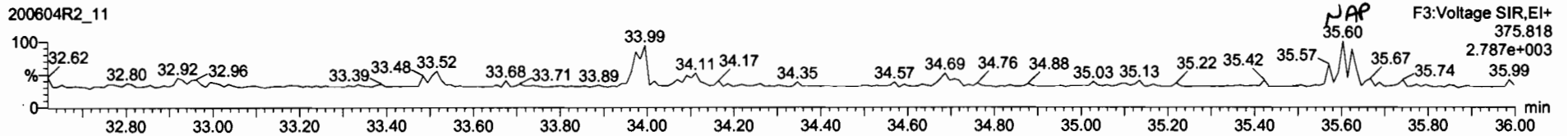
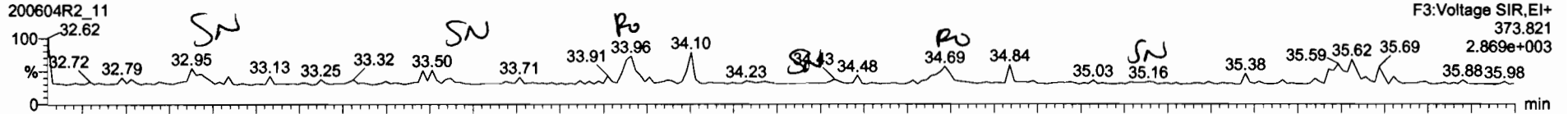


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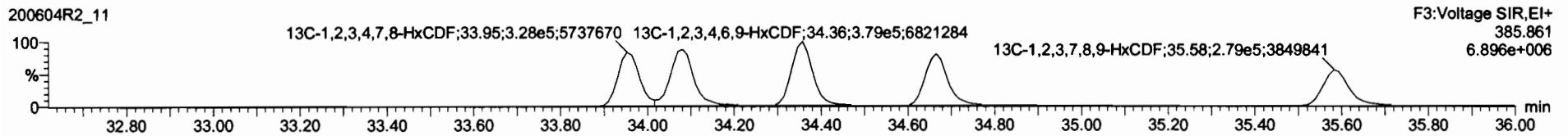
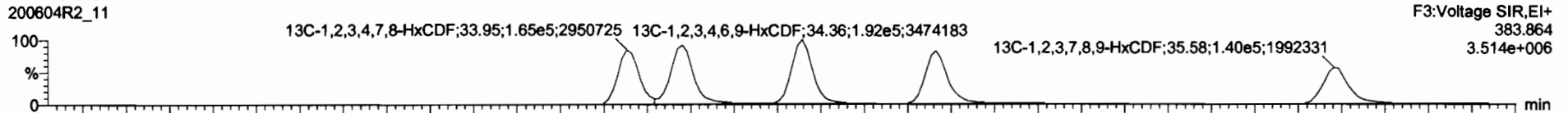
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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_11, Date: 05-Jun-2020, Time: 03:42:03, ID: 2000997-06 PDI-061SC-A-08-09-200428 15.8, Description: PDI-061SC-A-08-09-200428

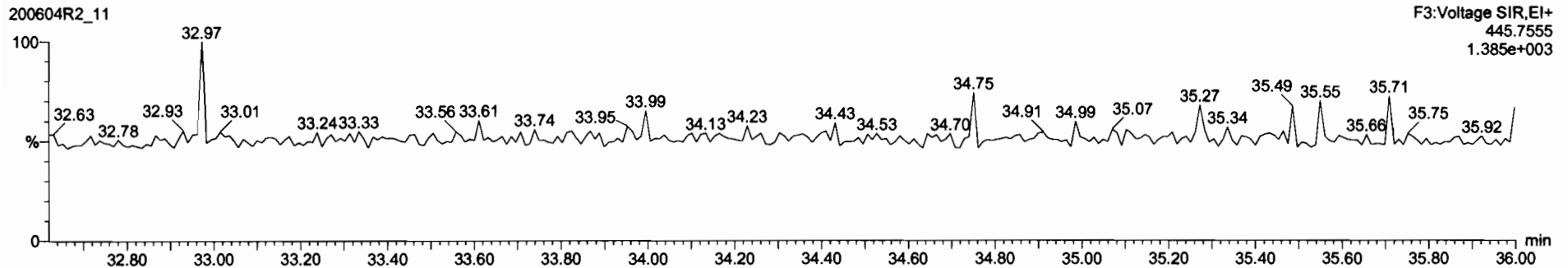
1,2,3,4,7,8-HxCDF



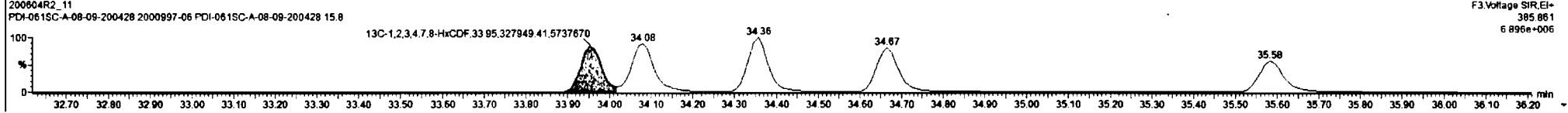
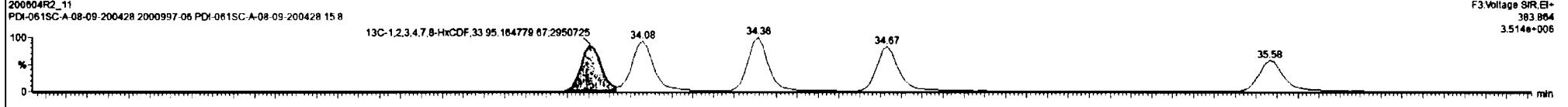
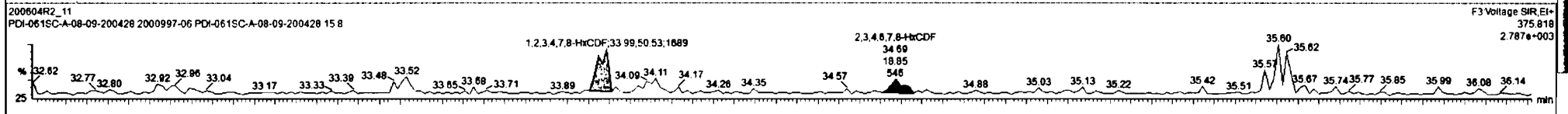
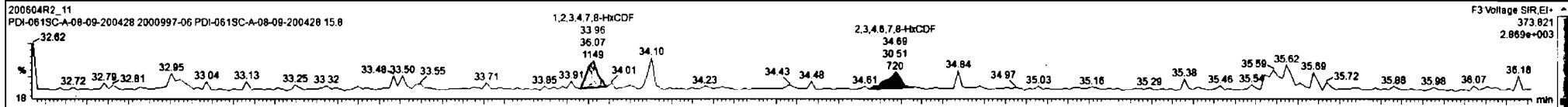
13C-1,2,3,4,7,8-HxCDF



DPE3



	Area	Time	Height	Width	Area%	Height%
Total Penta-Dioxine	0.9061	10.115			0.0243	
Total Hexa-Dioxine	0.8923	10.115			0.0435	0.0510
Total Hepta-Dioxine	0.8630	10.115			0.0592	0.206
Total Tetra-Furane	0.7510	10.115			0.0122	
1st Func. Penta-Furane	0.8625	10.115			0.00730	
Total Penta-Furane	0.8625	10.115			0.0115	
Total Hepta-Furane	0.8734	10.115			0.0291	
PFK1						
PFK2						
PFK3						
PFK4						
PFK5						
DPE1						
DPE2						
DPE3						
DPE4						
DPE5						
DPE6						



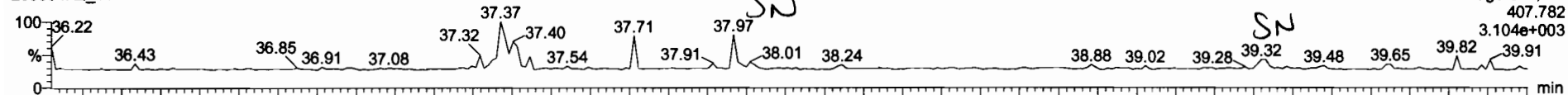
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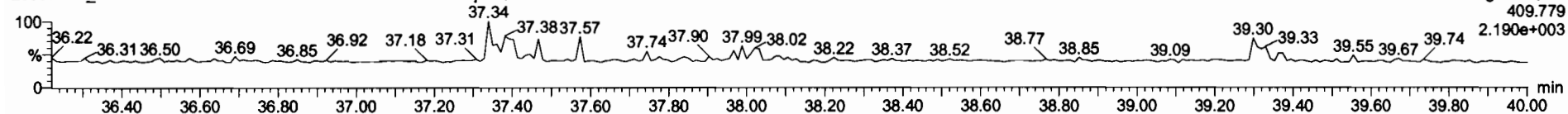
Name: 200604R2_11, Date: 05-Jun-2020, Time: 03:42:03, ID: 2000997-06 PDI-061SC-A-08-09-200428 15.8, Description: PDI-061SC-A-08-09-200428

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

200604R2_11



200604R2_11

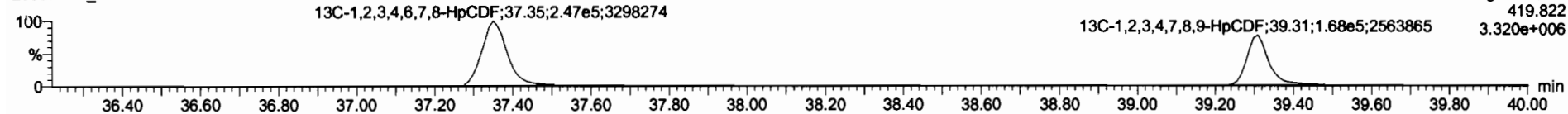


13C-1,2,3,4,6,7,8-HpCDF

200604R2_11

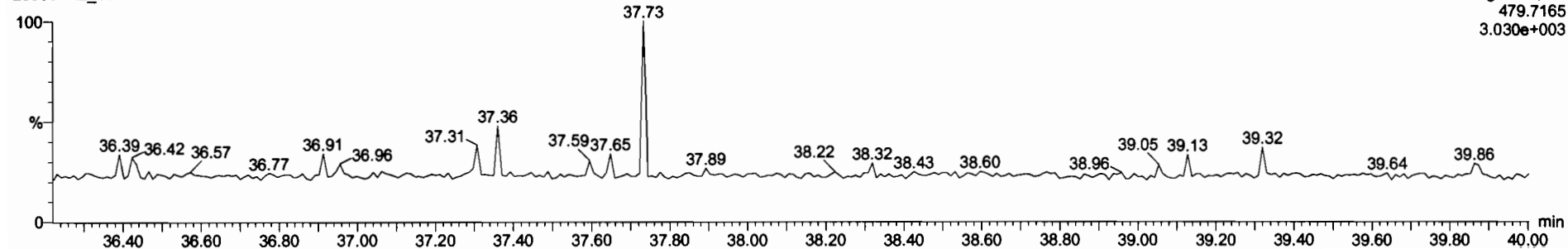


200604R2_11



DPE4

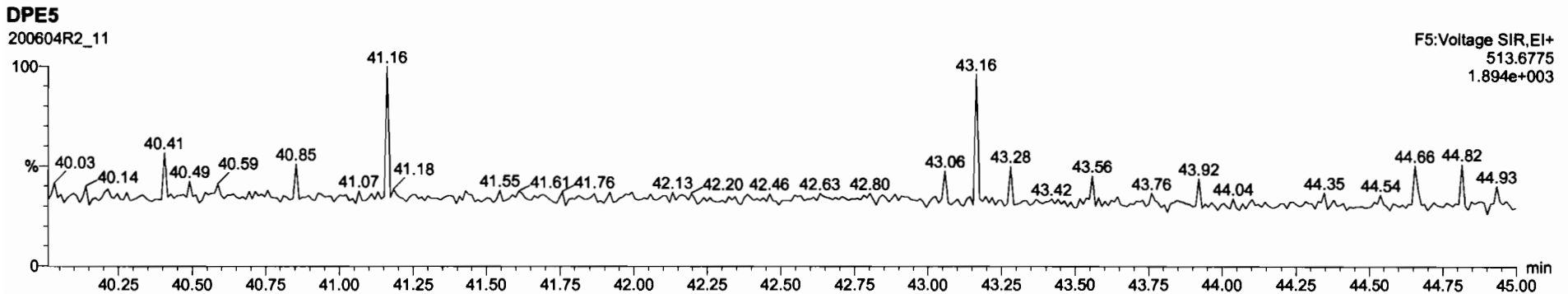
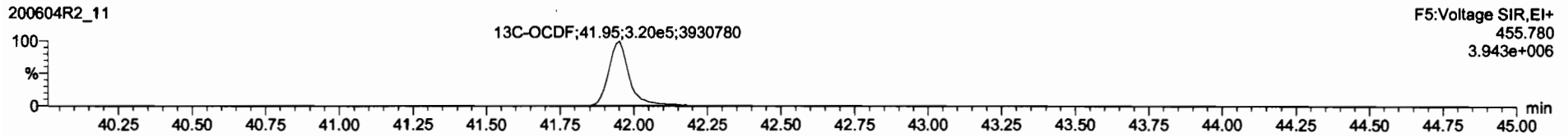
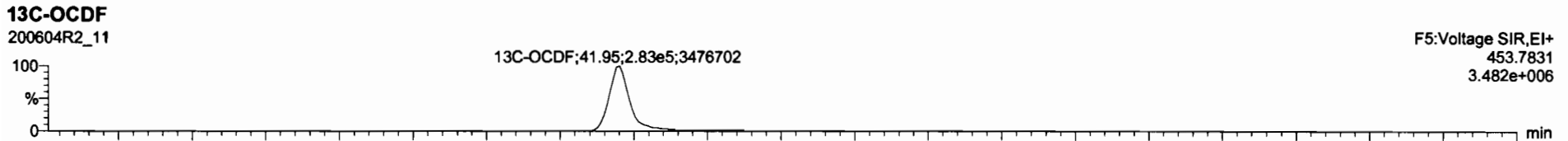
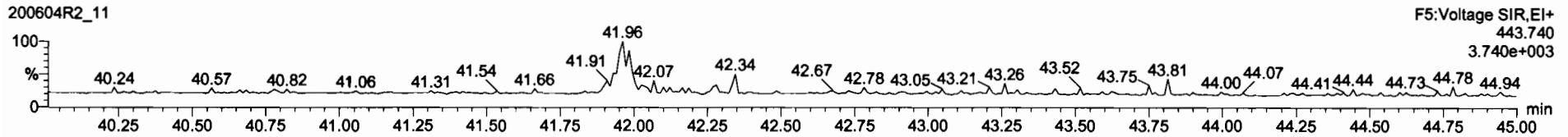
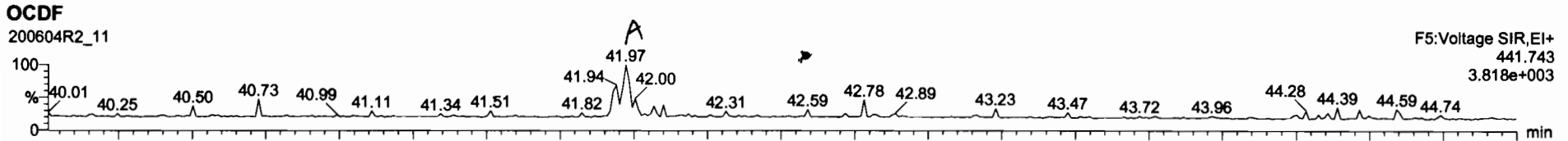
200604R2_11



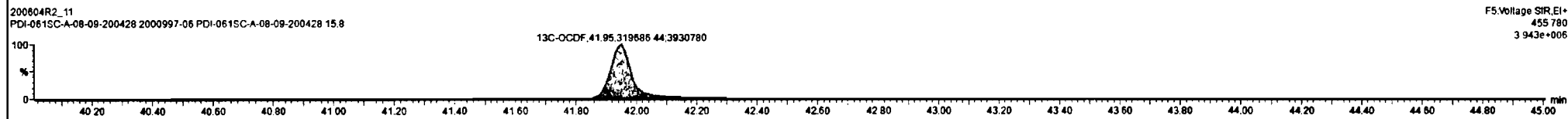
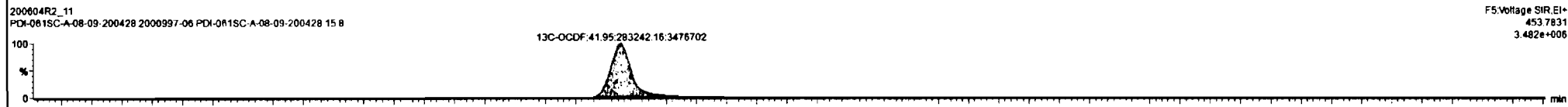
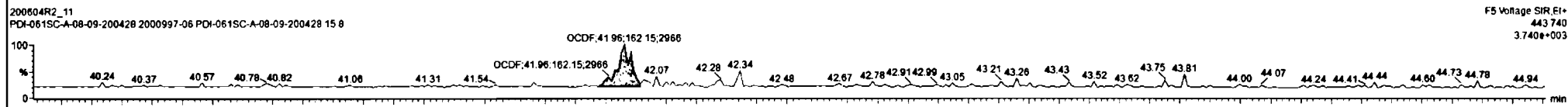
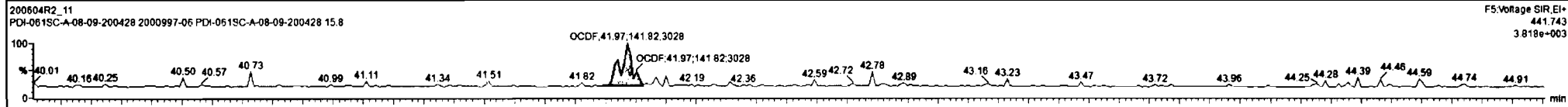
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Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_11, Date: 05-Jun-2020, Time: 03:42:03, ID: 2000997-06 PDI-061SC-A-08-09-200428 15.8, Description: PDI-061SC-A-08-09-200428



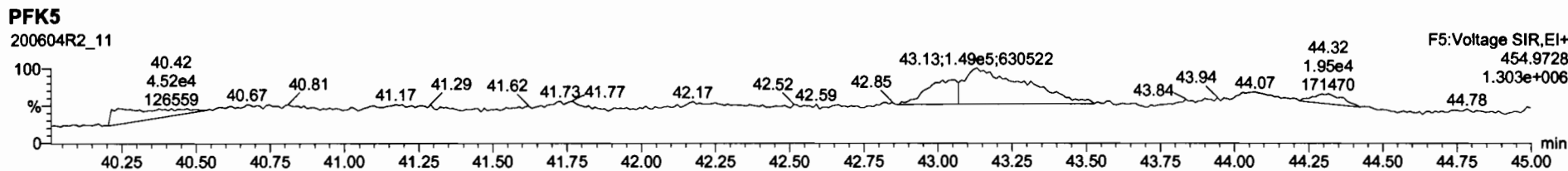
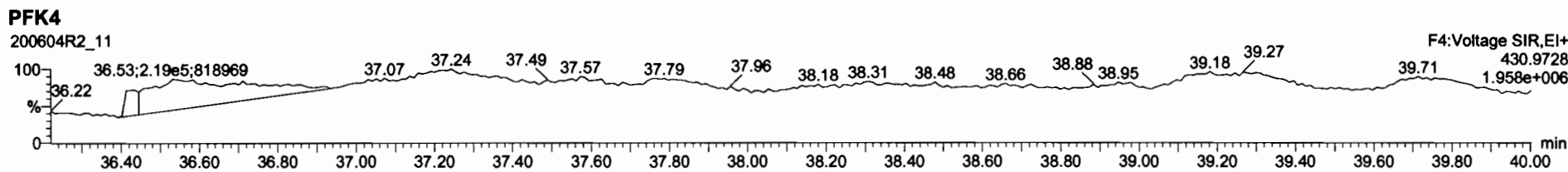
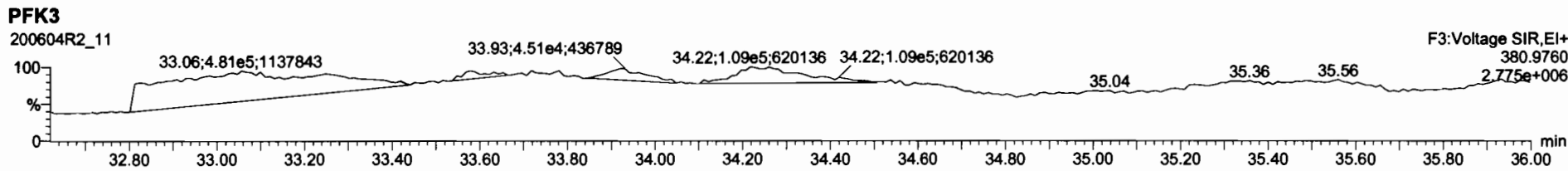
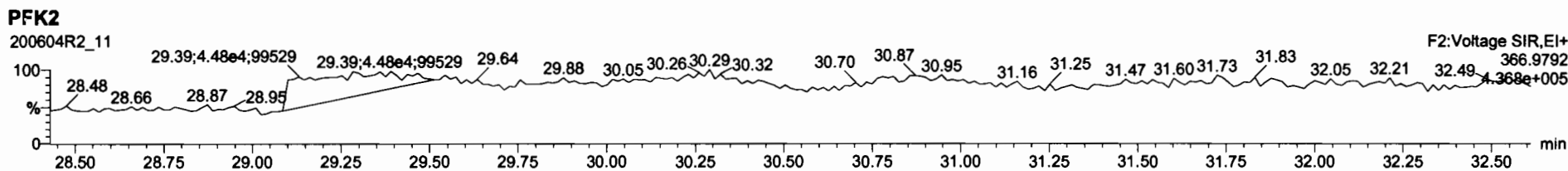
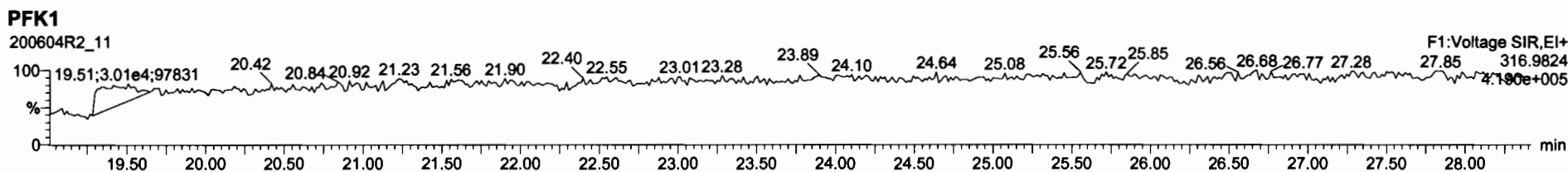
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13C-1,2,3,7,8-PeCDD	5.34e5	0.64	NO	0.8490	10.115	31.45	1.217	172	87.1	0.269
13C-1,2,3,4,7,8-HxCDD	3.78e5	1.30	NO	0.7790	10.115	34.84	1.014	167	84.5	0.561
13C-1,2,3,6,7,8-HxCDD	4.63e5	1.30	NO	1.0167	10.115	34.94	1.017	158	79.7	0.430
13C-1,2,3,7,8,9-HxCDD	4.14e5	1.22	NO	0.9027	10.115	35.22	1.025	159	80.3	0.484
13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.01	NO	0.6882	10.115	38.78	1.128	153	77.2	0.527
13C-OCDD	5.17e5	0.90	NO	0.8521	10.115	41.75	1.215	275	69.4	0.525
13C-2,3,7,8-TCDF	9.18e5	0.77	NO	1.0590	10.115	25.60	0.991	161	81.3	0.263
13C-1,2,3,7,8-PeCDF	7.97e5	1.59	NO	0.6380	10.115	30.17	1.166	176	89.2	0.551
13C-2,3,4,7,8-HxCDF	7.65e5	1.61	NO	0.6196	10.115	31.15	1.295	174	88.0	0.565
13C-1,2,3,4,7,8-HxCDF	4.83e5	0.50	NO	1.0075	10.115	33.95	0.988	169	85.7	0.771
13C-1,2,3,6,7,8-HxCDF	5.74e5	0.51	NO	1.1670	10.115	34.08	0.992	170	86.2	0.665
13C-2,3,4,6,7,8-HxCDF	5.10e5	0.50	NO	1.0219	10.115	34.67	1.009	173	87.5	0.760
13C-1,2,3,7,8,9-HxCDF	4.19e5	0.50	NO	0.8965	10.115	35.58	1.036	169	85.4	0.904
13C-1,2,3,4,6,7,8-HpCDF	3.53e5	0.43	NO	0.7745	10.115	37.35	1.087	158	79.8	0.708
13C-1,2,3,4,7,8,9-HpCDF	2.35e5	0.40	NO	0.5210	10.115	39.31	1.144	156	79.1	1.05
13C-OCDF	6.03e5	0.89	NO	0.7457	10.115	41.95	1.221	280	70.8	0.578
37Cl-2,3,7,8-TCDD	3.21e5			1.0368	10.115	26.51	1.026	84.9	107	0.0463
13C-1,2,3,7,8-PeCDD	7.77e5	0.78	NO	1.1000	10.115	36.82	1.000	168	80.0	0.747



Dataset: Untitled

Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_11, Date: 05-Jun-2020, Time: 03:42:03, ID: 2000997-06 PDI-061SC-A-08-09-200428 15.8, Description: PDI-061SC-A-08-09-200428



Dataset: U:\VG12.PRO\Results\200604R2\200604R2-12.qld

Last Altered: Friday, June 05, 2020 13:35:39 Pacific Daylight Time

Printed: Friday, June 05, 2020 13:36:36 Pacific Daylight Time

GRB 06/05/2020

C107/02/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R2_12, Date: 05-Jun-2020, Time: 04:28:19, ID: 2000997-07 PDI-061SC-A-09-9.9-200428 14.8, Description: PDI-061SC-A-09-9.9-200428

# Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Final.RRT	RRT	Conc.	%Rec	Q	Q/P
1 2,3,7,8-TCDD			NO	0.888	10.084	26.545		1.001				0.0477	
2 1,2,3,7,8-PeCDD			NO	0.908	10.084	31.488		1.001				0.0431	
3 1,2,3,4,7,8-HxCDD			NO	1.03	10.084	34.846		1.000				0.0935	
4 1,2,3,6,7,8-HxCDD			NO	0.892	10.084	34.943		1.000				0.0964	
5 1,2,3,7,8,9-HxCDD			NO	0.887	10.084	35.231		1.000				0.112	
6 1,2,3,4,6,7,8-HpCDD	1.59e2	0.82	YES	0.864	10.084	38.768	38.77	1.000	1.000	0.11099		0.0653	0.106
7 OCDD	7.15e2	0.80	NO	0.914	10.084	41.749	41.75	1.000	1.000	0.60921		0.256	0.609
8 2,3,7,8-TCDF			NO	0.751	10.084	25.642		1.001				0.0203	
9 1,2,3,7,8-PeCDF			NO	0.893	10.084	30.205		1.001				0.0245	
10 2,3,4,7,8-PeCDF			NO	0.935	10.084	31.192		1.001				0.0222	
11 1,2,3,4,7,8-HxCDF			NO	0.884	10.084	33.963		1.000				0.0310	
12 1,2,3,6,7,8-HxCDF			NO	0.889	10.084	34.090		1.000				0.0292	
13 2,3,4,6,7,8-HxCDF			NO	0.934	10.084	34.701		1.001				0.0317	
14 1,2,3,7,8,9-HxCDF	9.35e1	0.86	YES	0.871	10.084	35.582	35.59	1.000	1.000	0.052136		0.0186	0.0435
15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.084	37.387		1.001				0.0355	
16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.084	39.299		1.000				0.0415	
17 OCDF			NO	0.806	10.084	41.940		1.000				0.0561	
18 13C-2,3,7,8-TCDD	7.81e5	0.79	NO	1.16	10.084	26.538	26.51	1.026	1.025	181.98	91.8	0.181	
19 13C-1,2,3,7,8-PeCDD	5.57e5	0.63	NO	0.849	10.084	31.729	31.47	1.227	1.217	176.84	89.2	0.362	
20 13C-1,2,3,4,7,8-HxCDD	3.80e5	1.28	NO	0.779	10.084	34.841	34.84	1.014	1.014	173.07	87.3	0.631	
21 13C-1,2,3,6,7,8-HxCDD	4.81e5	1.26	NO	1.02	10.084	34.955	34.94	1.017	1.017	167.75	84.6	0.484	
22 13C-1,2,3,7,8,9-HxCDD	4.11e5	1.22	NO	0.903	10.084	35.226	35.22	1.025	1.025	161.29	81.3	0.545	
23 13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.01	NO	0.689	10.084	38.751	38.76	1.128	1.128	156.14	78.7	0.432	
24 13C-OCDD	5.10e5	0.90	NO	0.652	10.084	41.775	41.75	1.216	1.215	277.04	69.8	0.779	
25 13C-2,3,7,8-TCDF	1.02e6	0.77	NO	1.06	10.084	25.578	25.62	0.989	0.991	177.44	89.5	0.245	
26 13C-1,2,3,7,8-PeCDF	8.21e5	1.61	NO	0.838	10.084	30.111	30.18	1.165	1.167	181.07	91.3	0.791	
27 13C-2,3,4,7,8-PeCDF	8.06e5	1.57	NO	0.817	10.084	31.065	31.16	1.202	1.205	182.35	91.9	0.811	
28 13C-1,2,3,4,7,8-HxCDF	4.95e5	0.50	NO	1.01	10.084	33.972	33.96	0.989	0.989	174.12	87.8	0.724	
29 13C-1,2,3,6,7,8-HxCDF	5.63e5	0.50	NO	1.17	10.084	34.096	34.08	0.992	0.992	170.86	86.1	0.625	
30 13C-2,3,4,6,7,8-HxCDF	5.00e5	0.49	NO	1.02	10.084	34.670	34.67	1.009	1.009	173.28	87.4	0.714	
31 13C-1,2,3,7,8,9-HxCDF	4.08e5	0.53	NO	0.860	10.084	35.570	35.58	1.035	1.036	168.42	84.9	0.849	

Dataset: U:\VG12.PRO\Results\200604R2\200604R2-12.qld

Last Altered: Friday, June 05, 2020 13:35:39 Pacific Daylight Time

Printed: Friday, June 05, 2020 13:36:36 Pacific Daylight Time

Name: 200604R2_12, Date: 05-Jun-2020, Time: 04:28:19, ID: 2000997-07 PDI-061SC-A-09-9.9-200428 14.8, Description: PDI-061SC-A-09-9.9-200428

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RT	Conc	Unit	Conc	Unit
32	13C-1,2,3,4,6,7,8-HpCDF	3.65e5	0.42	NO	0.774	10.084	37.319	37.35	1.086	1.087	166.97	84.2	0.588	
33	13C-1,2,3,4,7,8,9-HpCDF	2.35e5	0.44	NO	0.521	10.084	39.349	39.30	1.145	1.144	160.05	80.7	0.874	
34	13C-OCDF	5.84e5	0.91	NO	0.746	10.084	41.946	41.94	1.221	1.221	277.76	70.0	0.485	
35	37Cl-2,3,7,8-TCDD	3.13e5			1.04	10.084	26.569	26.53	1.028	1.026	81.203	102	0.126	
36	13C-1,2,3,4-TCDD	7.36e5	0.80	NO	1.00	10.084	25.890	25.85	1.000	1.000	198.33	100	0.209	
37	13C-1,2,3,4-TCDF	1.07e6	0.78	NO	1.00	10.084	24.360	24.18	1.000	1.000	198.33	100	0.259	
38	13C-1,2,3,4,6,9-HxCDF	5.60e5	0.50	NO	1.00	10.084	34.420	34.36	1.000	1.000	198.33	100	0.730	
39	Total Tetra-Dioxins				0.888	10.084	24.620		0.000		0.066310		0.0257	0.0663
40	Total Penta-Dioxins				0.908	10.084	29.960		0.000				0.0137	
41	Total Hexa-Dioxins				0.892	10.084	33.635		0.000		0.00000		0.0439	0.100
42	Total Hepta-Dioxins				0.864	10.084	37.640		0.000		0.17450		0.0653	0.281
43	Total Tetra-Furans				0.751	10.084	23.610		0.000				0.00823	
44	1st Func. Penta-Furans				0.893	10.084	27.580		0.000				0.00760	
45	Total Penta-Furans				0.893	10.084	29.275		0.000				0.00833	
46	Total Hexa-Furans				0.934	10.084	33.555		0.000		0.00000		0.0125	0.0435
47	Total Hepta-Furans				0.873	10.084	37.835		0.000				0.0232	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200604R2\200604R2-12.qld

Last Altered: Friday, June 05, 2020 13:35:39 Pacific Daylight Time

Printed: Friday, June 05, 2020 13:36:36 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R2_12, Date: 05-Jun-2020, Time: 04:28:19, ID: 2000997-07 PDI-061SC-A-09-9.9-200428 14.8, Description: PDI-061SC-A-09-9.9-200428

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Tetra-Dioxins	24.36	2.162e3	1.801e3	1.054e2	1.266e2	0.83	NO	2.320e2	0.066310	0.066310	0.0257

Penta-Dioxins

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

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hexa-Dioxins	33.35	2.429e3	4.336e3	1.060e2	1.158e2	0.91	YES	0.000e0	0.00000	0.10033	0.0439

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hepta-Dioxins	37.80	1.642e3	1.835e3	1.216e2	1.092e2	1.11	NO	2.308e2	0.17450	0.17450	0.0653
1,2,3,4,6,7,8-HpCDD	38.77	1.400e3	2.366e3	7.159e1	8.711e1	0.82	YES	1.587e2	0.00000	0.10617	0.0653

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
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Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
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Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200604R2\200604R2-12.qld

Last Altered: Friday, June 05, 2020 13:35:39 Pacific Daylight Time

Printed: Friday, June 05, 2020 13:36:36 Pacific Daylight Time

Name: 200604R2_12, Date: 05-Jun-2020, Time: 04:28:19, ID: 2000997-07 PDI-061SC-A-09-9.9-200428 14.8, Description: PDI-061SC-A-09-9.9-200428

Penta-Furans

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

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1,2,3,7,8,9-HxCDF	35.59	1.028e3	1.148e3	4.314e1	5.036e1	0.86	YES	9.350e1	0.00000	0.043451	0.0186

Hepta-Furans

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

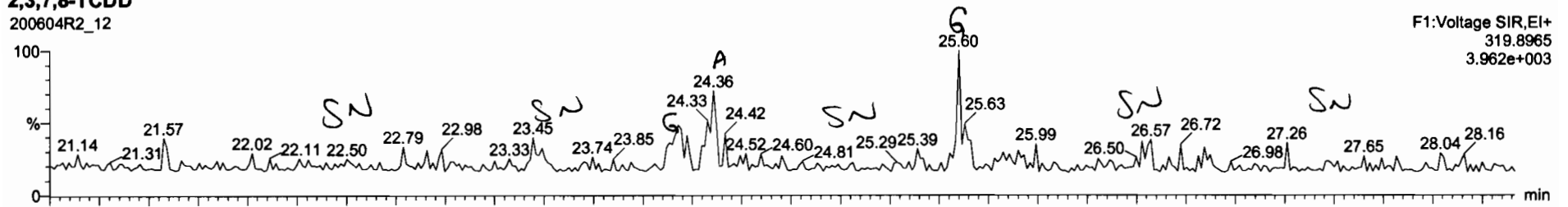
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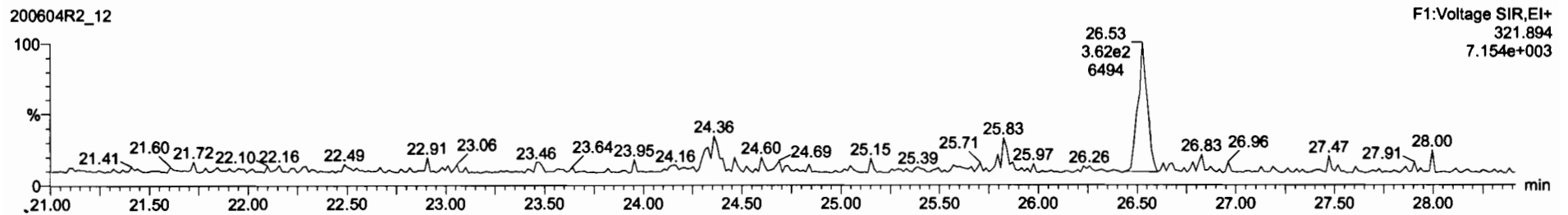
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2,3,7,8-TCDD

200604R2_12

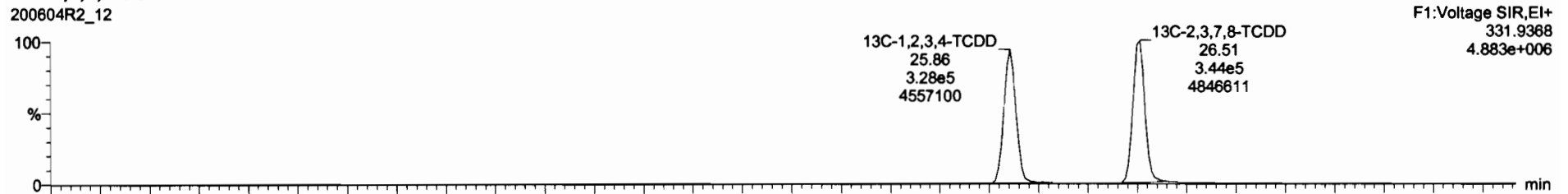


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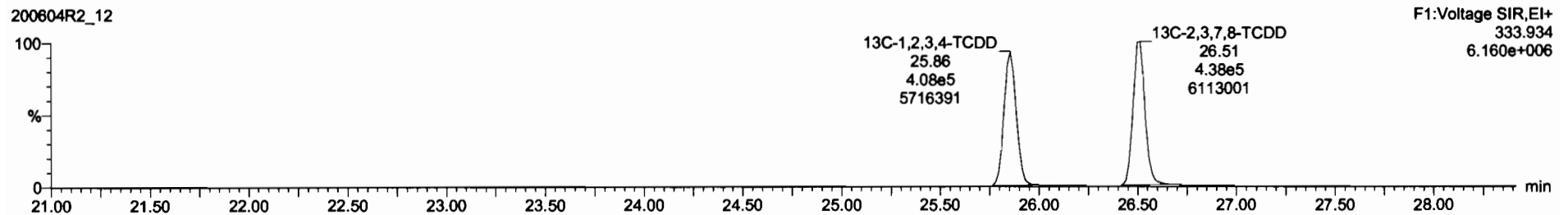


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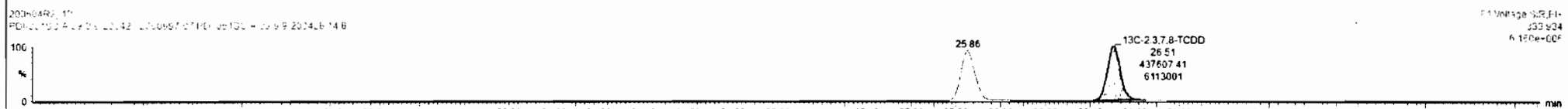
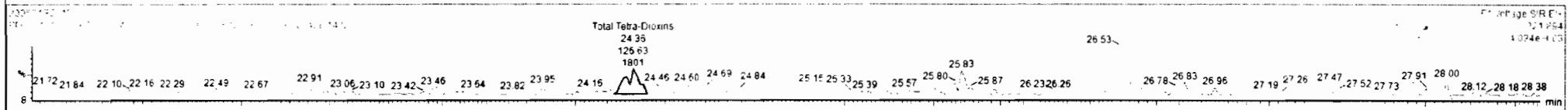
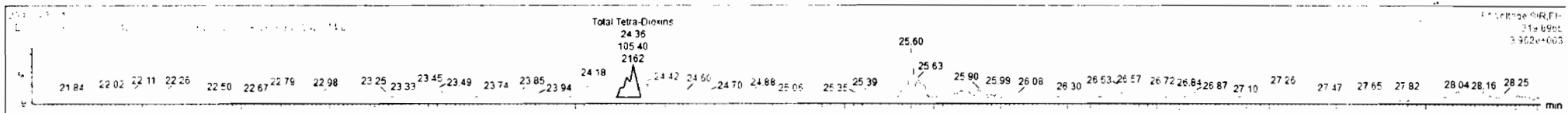
200604R2_12



200604R2_12



Name	Resp	RA	n/y	RF	w/wot	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.0003	0.0003					0.0257	0.0000
40 Total Penta-Dioxins				0.0001	10.084					0.0137	
41 Total Hexa-Dioxins				0.8923	10.084			0.000		0.0439	0.100
42 Total Hepta-Dioxins				0.8639	10.084			0.175		0.0653	0.281
43 Total Tetra-Furans				0.7510	10.084					0.00823	
44 1st Func. Penta-Furans				0.8925	10.084					0.00760	
45 Total Penta-Furans				0.8925	10.084					0.00833	
46 Total Hexa-Furans				0.9341	10.084			0.000		0.0126	0.0430
47 Total Hepta-Furans				0.8734	10.084					0.0232	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											



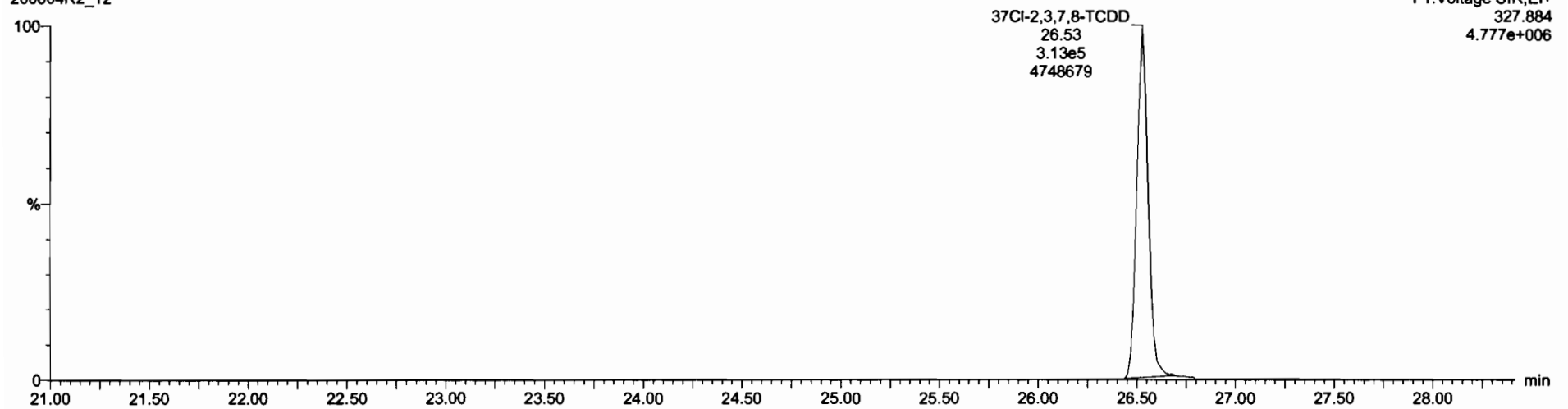
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Name: 200604R2_12, Date: 05-Jun-2020, Time: 04:28:19, ID: 2000997-07 PDI-061SC-A-09-9.9-200428 14.8, Description: PDI-061SC-A-09-9.9-200428

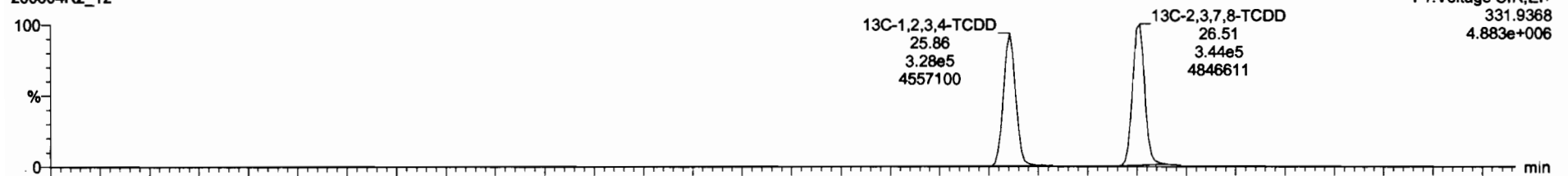
37Cl-2,3,7,8-TCDD

200604R2_12

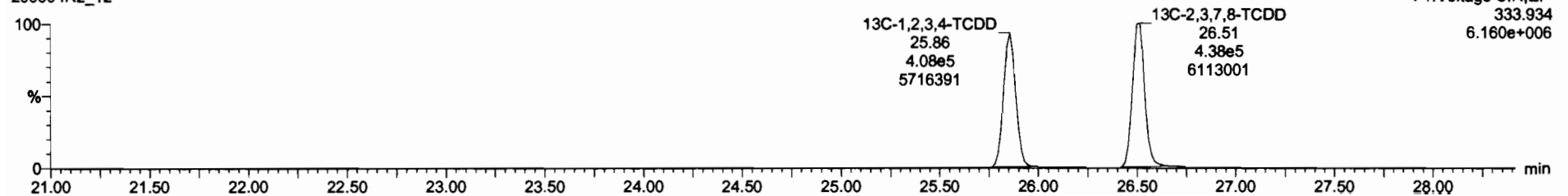


13C-1,2,3,4-TCDD

200604R2_12



200604R2_12



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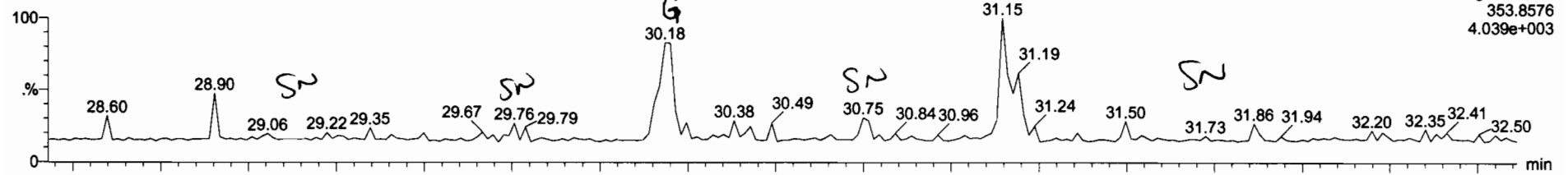
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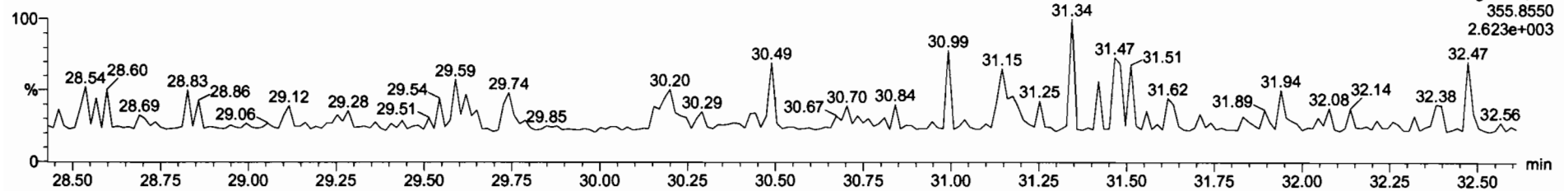
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1,2,3,7,8-PeCDD

200604R2_12

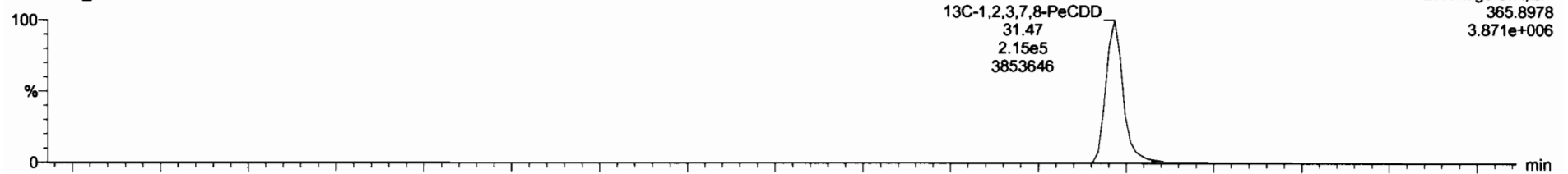


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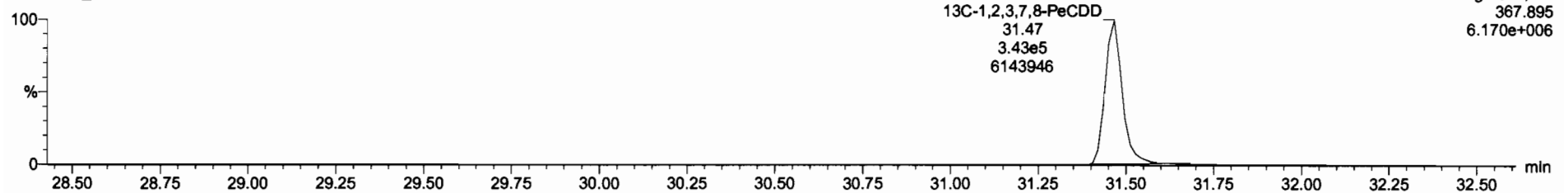


13C-1,2,3,7,8-PeCDD

200604R2_12



200604R2_12



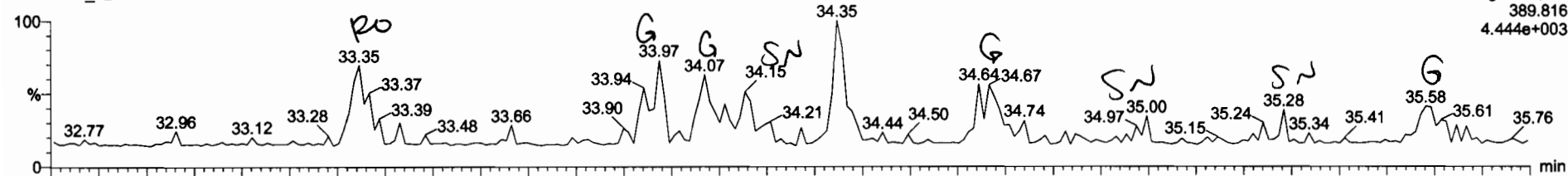
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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

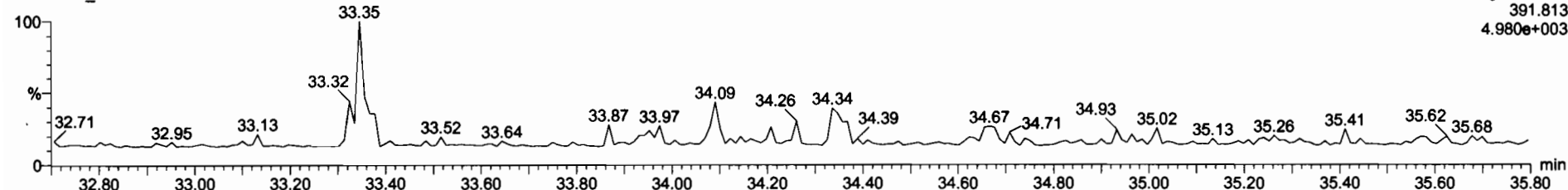
Name: 200604R2_12, Date: 05-Jun-2020, Time: 04:28:19, ID: 2000997-07 PDI-061SC-A-09-9.9-200428 14.8, Description: PDI-061SC-A-09-9.9-200428

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

200604R2_12

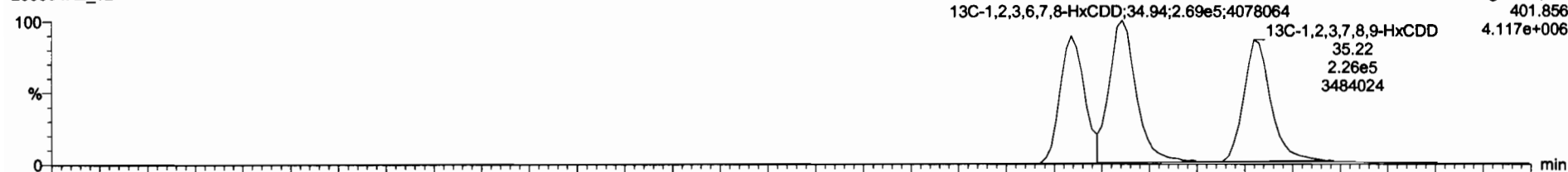


200604R2_12

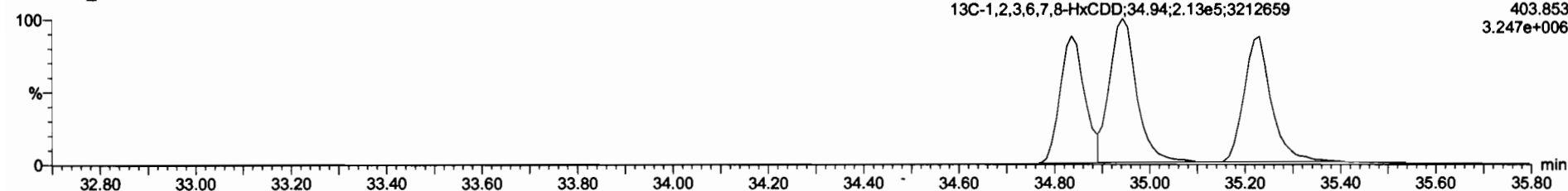


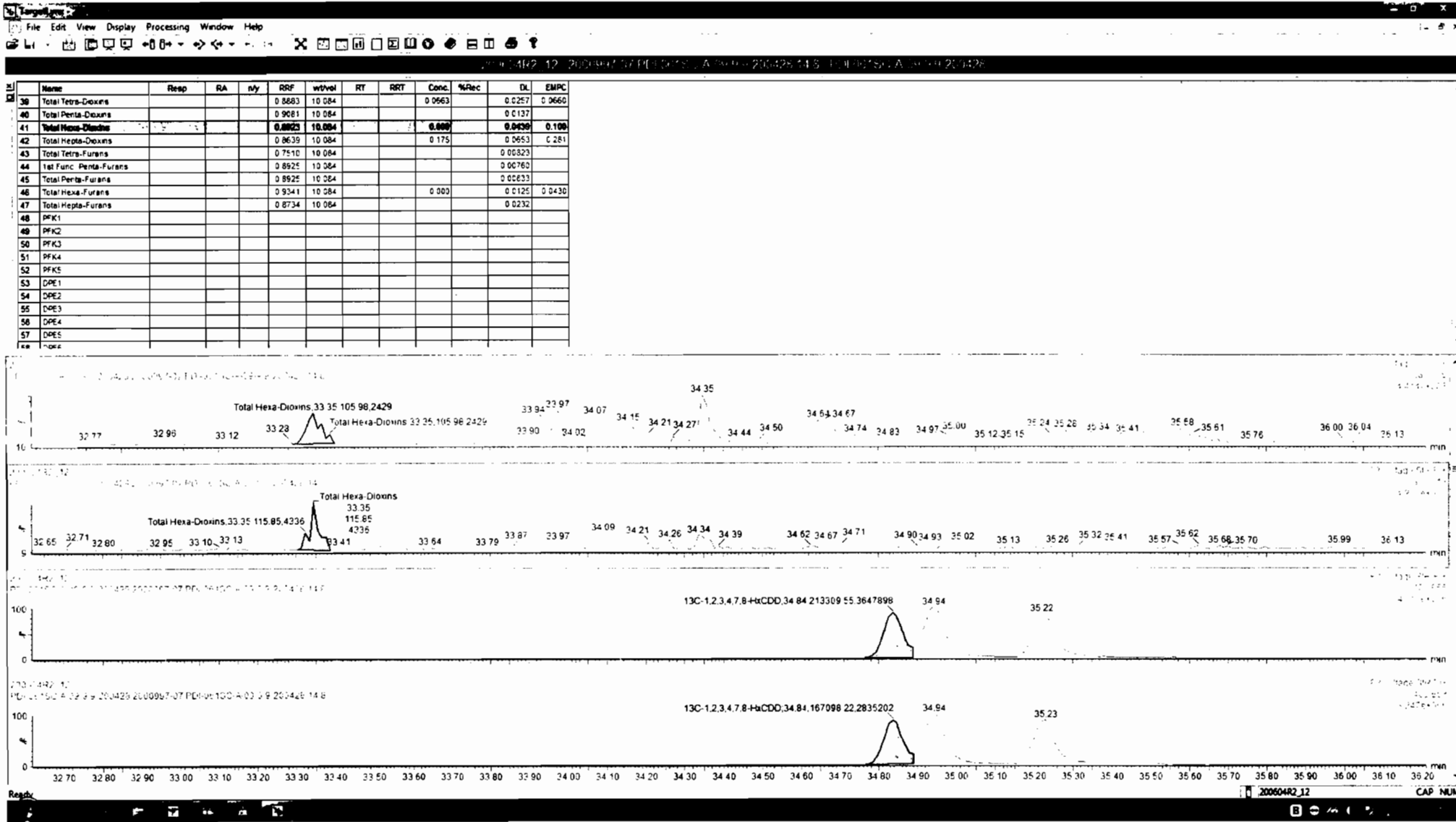
13C-1,2,3,4,7,8-HxCDD

200604R2_12



200604R2_12





Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.8683	10.084			0.0563		0.0257	0.0660
40 Total Penta-Dioxins				0.9081	10.084					0.0137	
41 Total Hexa-Dioxins				0.8923	10.084			0.000		0.0439	0.100
42 Total Hepta-Dioxins				0.8639	10.084			0.175		0.0653	0.281
43 Total Tetra-Furans				0.7510	10.084					0.00323	
44 1st Func. Penta-Furans				0.8925	10.084					0.00760	
45 Total Penta-Furans				0.8925	10.084					0.00333	
46 Total Hexa-Furans				0.9341	10.084			0.000		0.0125	0.0430
47 Total Hepta-Furans				0.8734	10.084					0.0232	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											

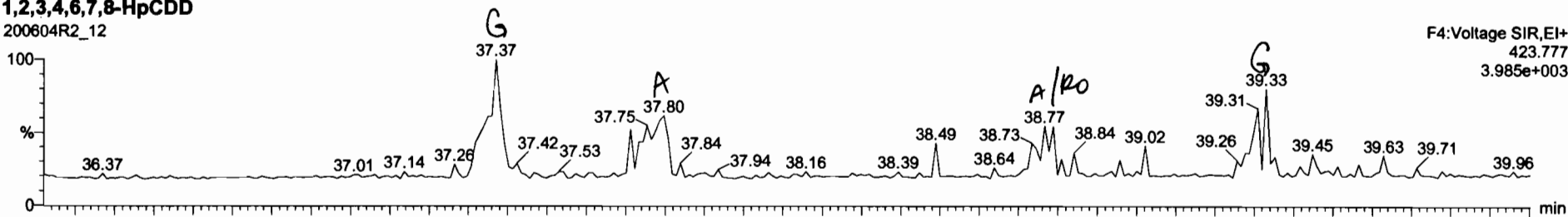
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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

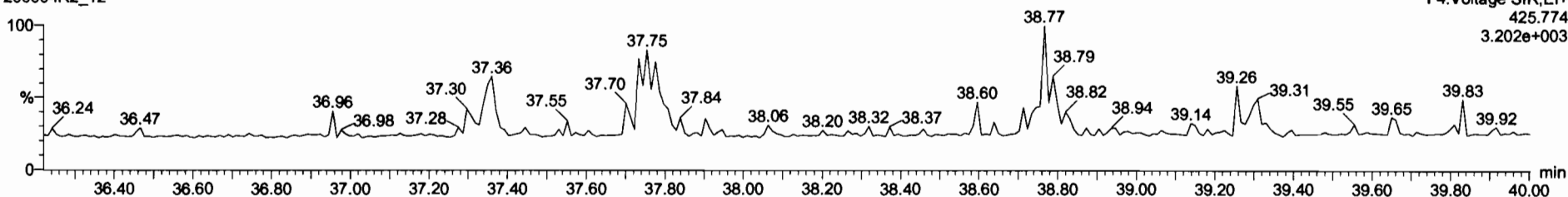
Name: 200604R2_12, Date: 05-Jun-2020, Time: 04:28:19, ID: 2000997-07 PDI-061SC-A-09-9.9-200428 14.8, Description: PDI-061SC-A-09-9.9-200428

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

200604R2_12

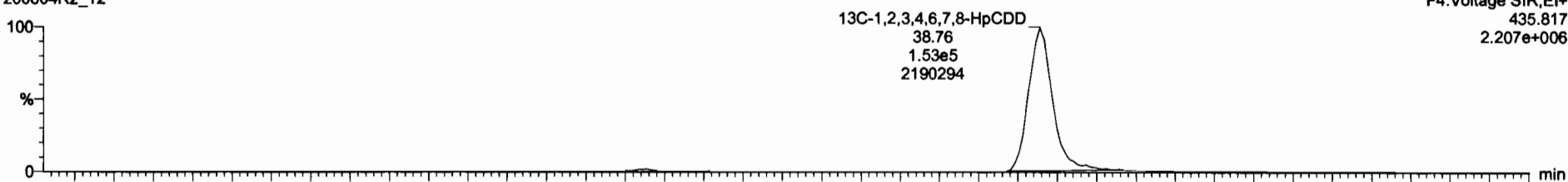


200604R2_12

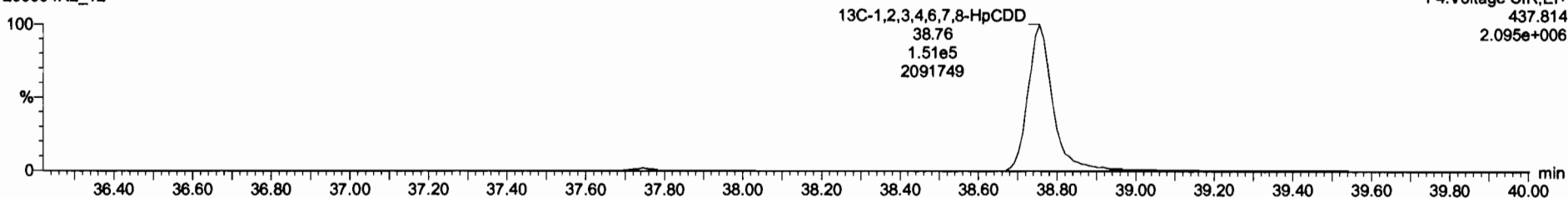


13C-1,2,3,4,6,7,8-HpCDD

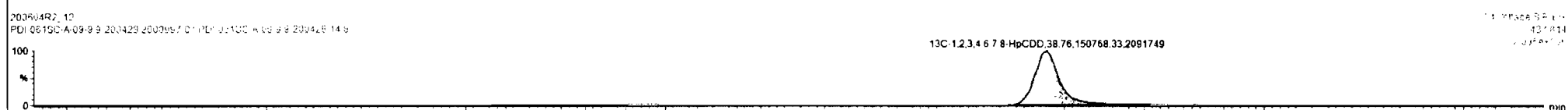
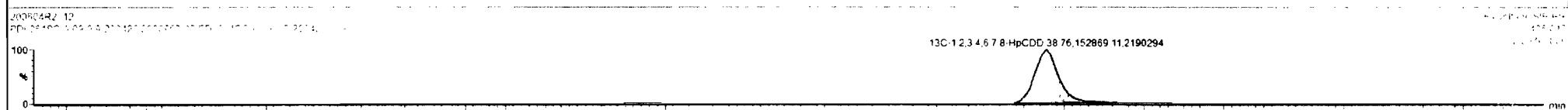
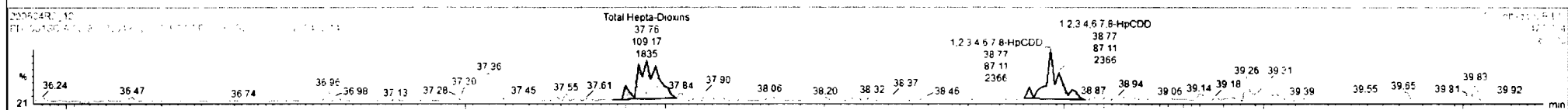
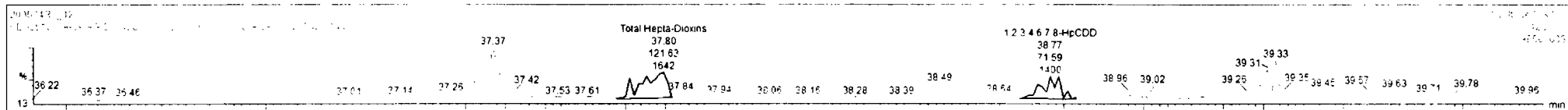
200604R2_12



200604R2_12



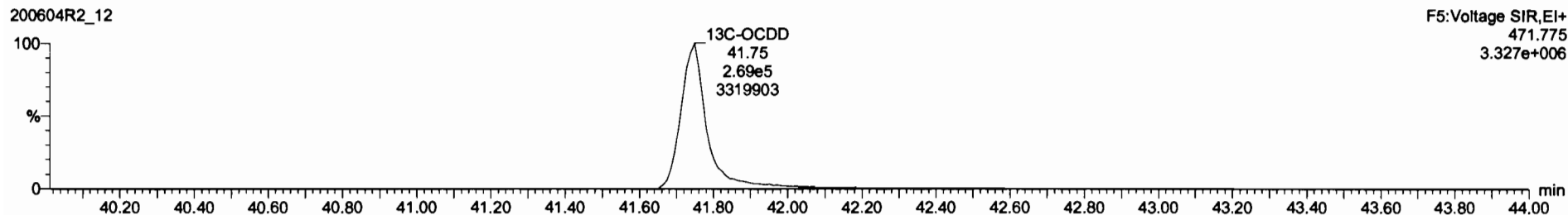
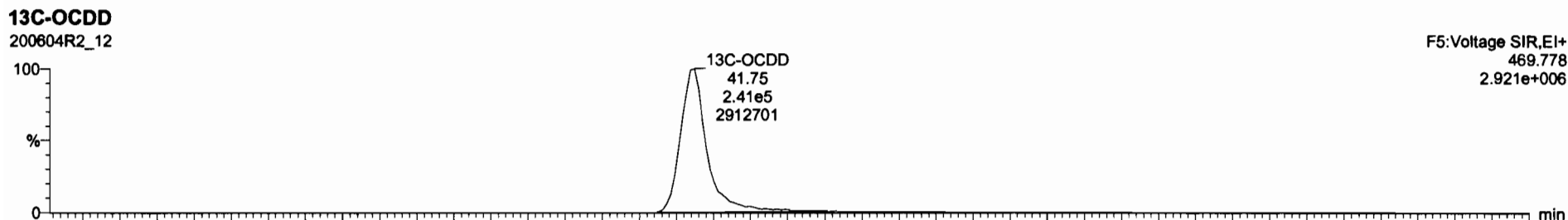
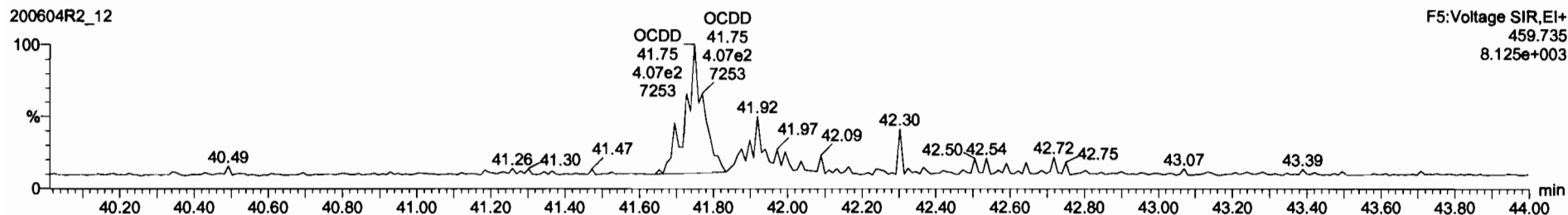
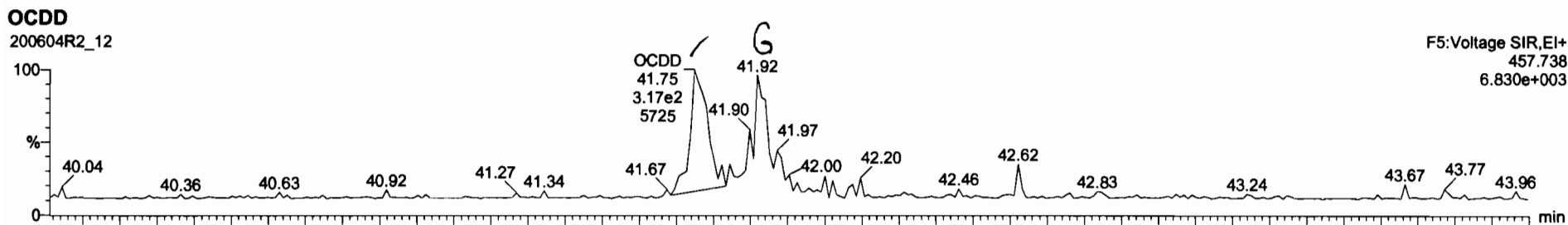
Item	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
38	Total Tetra-Dioxins			0.8883	10.084			0.0563		0.0257	0.0660
40	Total Penta-Dioxins			0.9081	10.084					0.0137	
41	Total Hexa-Dioxins			0.8922	10.084			0.000		0.0439	0.100
42	Total Hepta-Dioxins			0.8538	10.084			0.178		0.0653	0.201
43	Total Tetra-Furans			0.7510	10.084					0.0023	
44	1st Func. Penta-Furans			0.8625	10.084					0.00760	
45	Total Penta-Furans			0.8625	10.084					0.00833	
46	Total Hexa-Furans			0.9341	10.084			0.000		0.0125	0.0430
47	Total Hepta-Furans			0.8734	10.084					0.0232	
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										

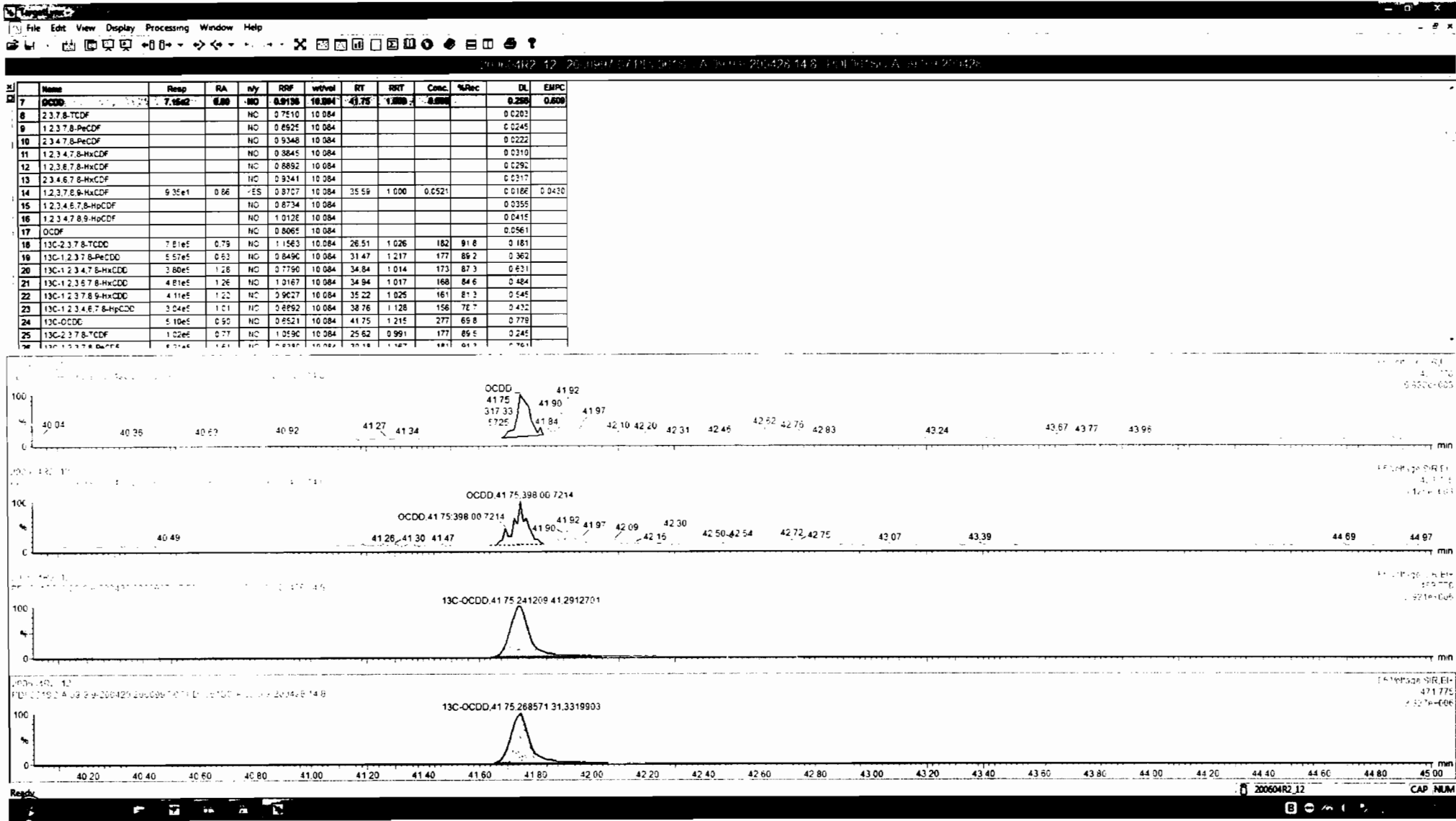


Dataset: Untitled

Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_12, Date: 05-Jun-2020, Time: 04:28:19, ID: 2000997-07 PDI-061SC-A-09-9.9-200428 14.8, Description: PDI-061SC-A-09-9.9-200428



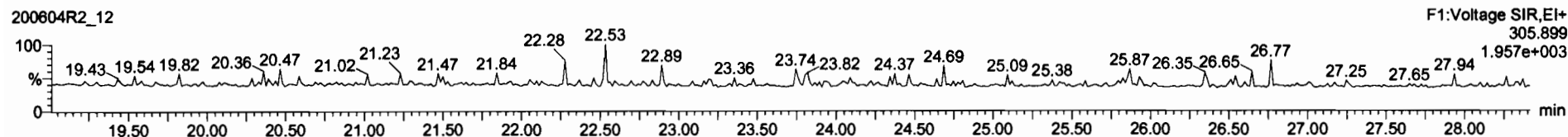
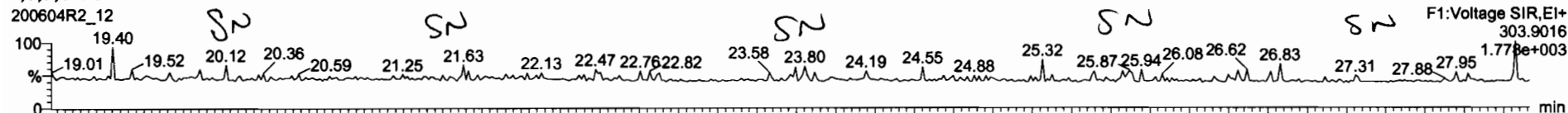


Dataset: Untitled

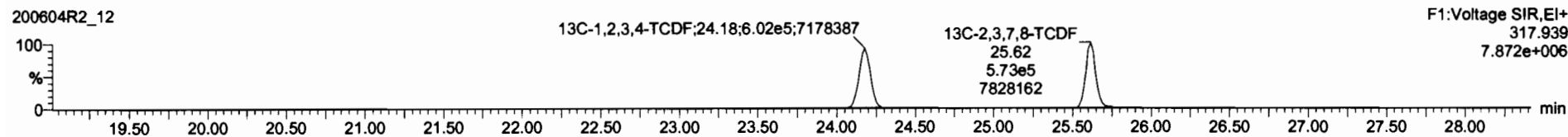
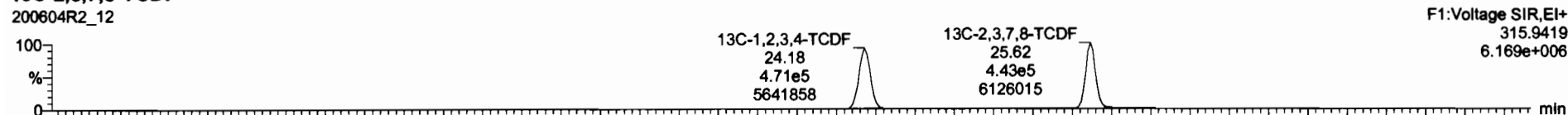
Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_12, Date: 05-Jun-2020, Time: 04:28:19, ID: 2000997-07 PDI-061SC-A-09-9.9-200428 14.8, Description: PDI-061SC-A-09-9.9-200428

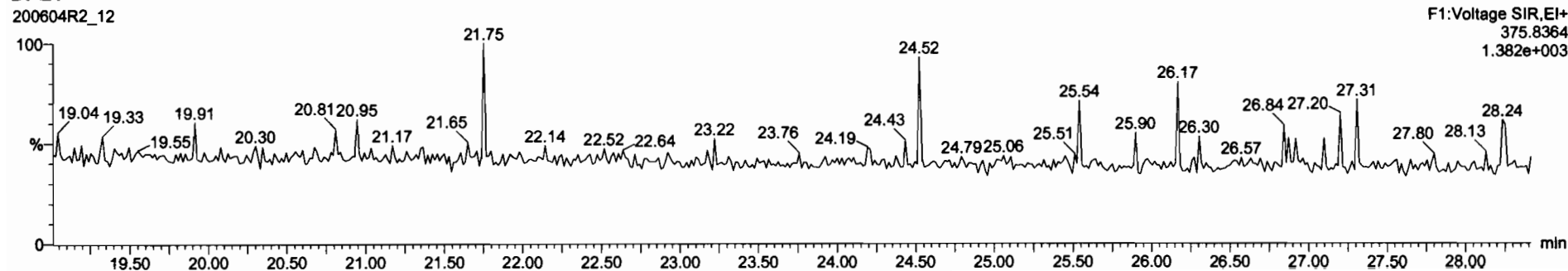
2,3,7,8-TCDF



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



DPE1

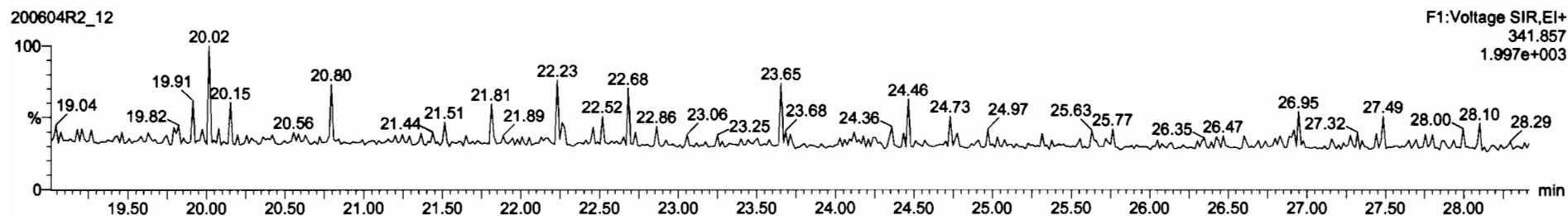
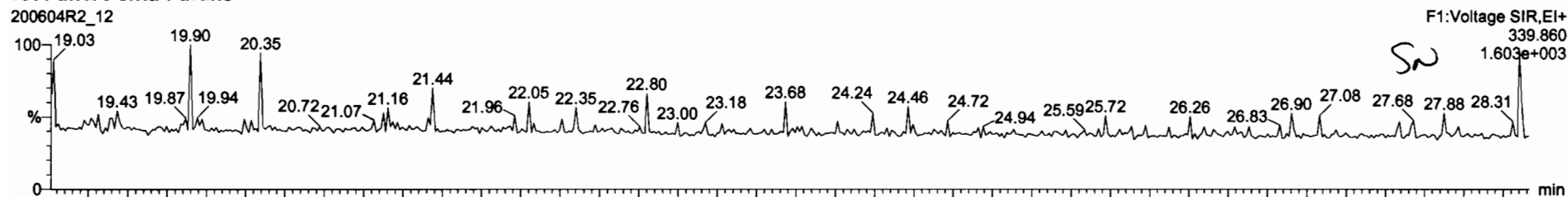


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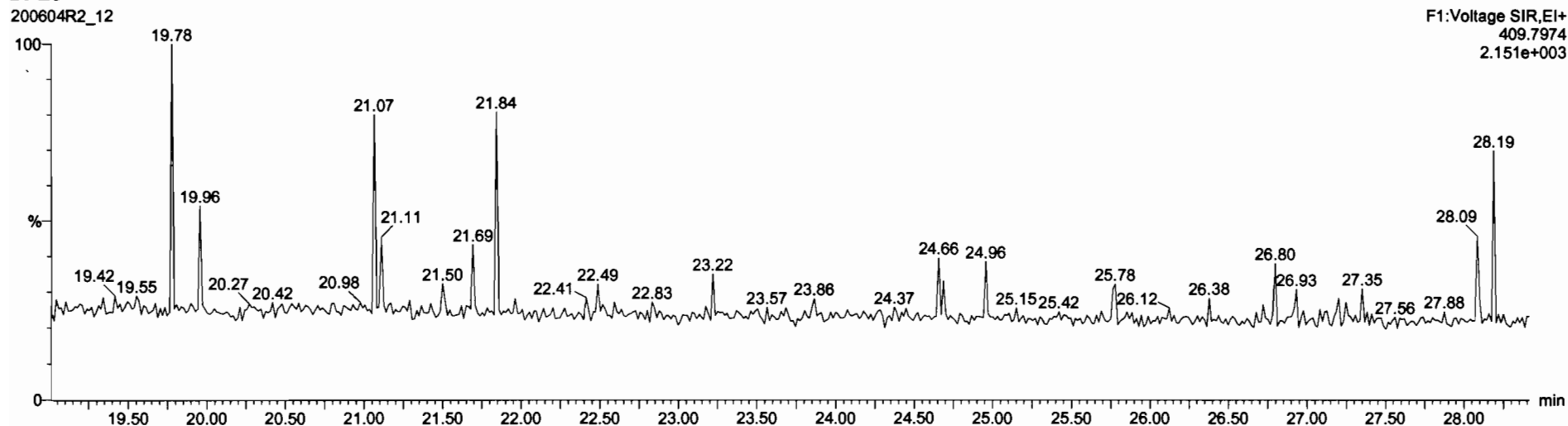
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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_12, Date: 05-Jun-2020, Time: 04:28:19, ID: 2000997-07 PDI-061SC-A-09-9.9-200428 14.8, Description: PDI-061SC-A-09-9.9-200428

1st Func. Penta-Furans



DPE6



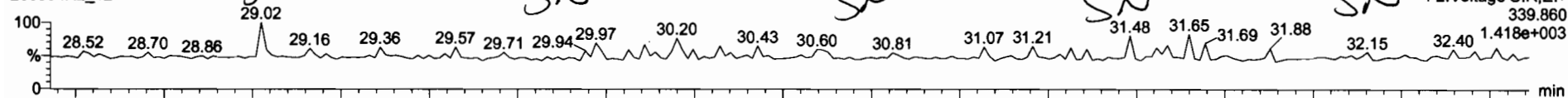
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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

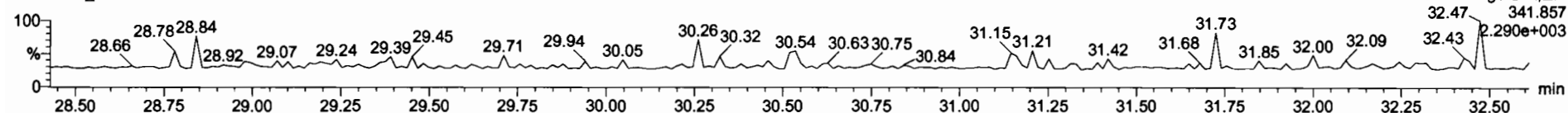
Name: 200604R2_12, Date: 05-Jun-2020, Time: 04:28:19, ID: 2000997-07 PDI-061SC-A-09-9.9-200428 14.8, Description: PDI-061SC-A-09-9.9-200428

1,2,3,7,8-PeCDF

200604R2_12

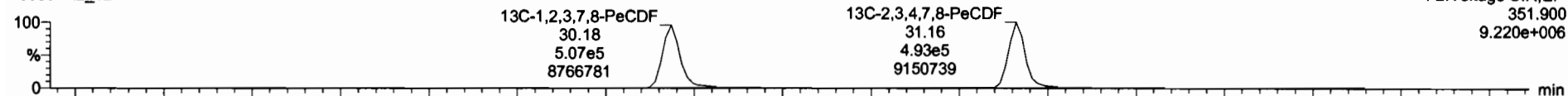


200604R2_12

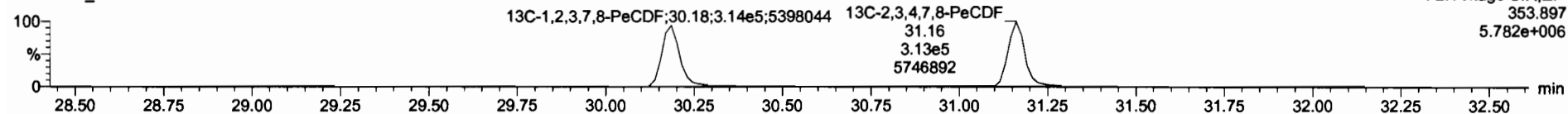


13C-1,2,3,7,8-PeCDF

200604R2_12

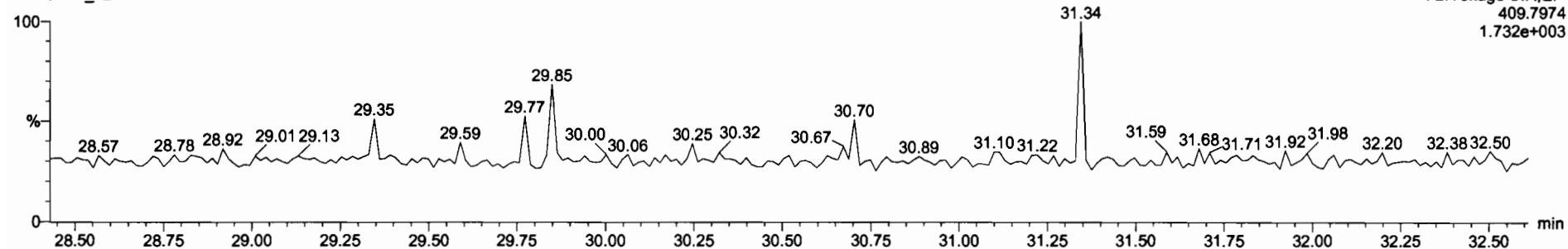


200604R2_12



DPE2

200604R2_12

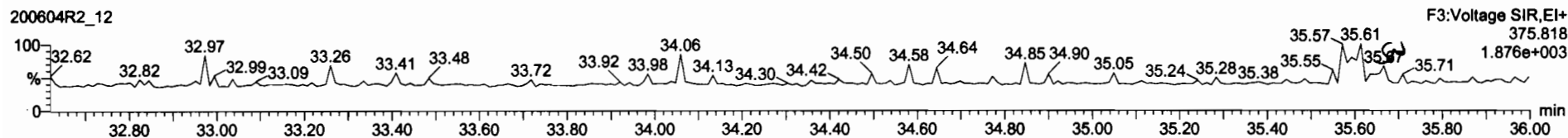
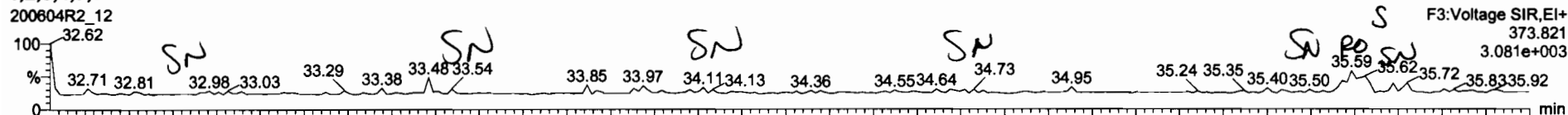


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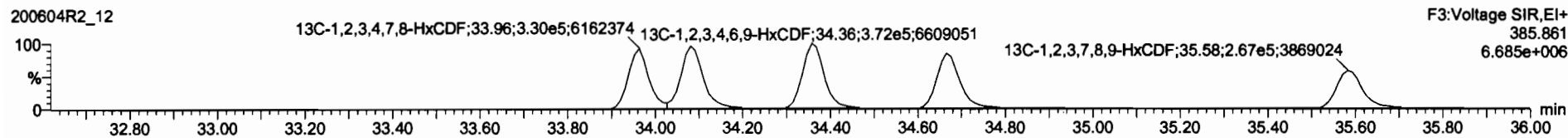
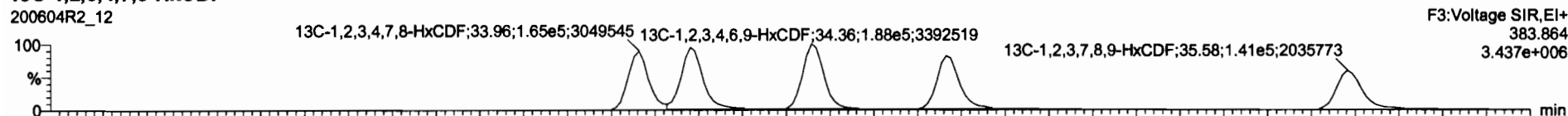
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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_12, Date: 05-Jun-2020, Time: 04:28:19, ID: 2000997-07 PDI-061SC-A-09-9.9-200428 14.8, Description: PDI-061SC-A-09-9.9-200428

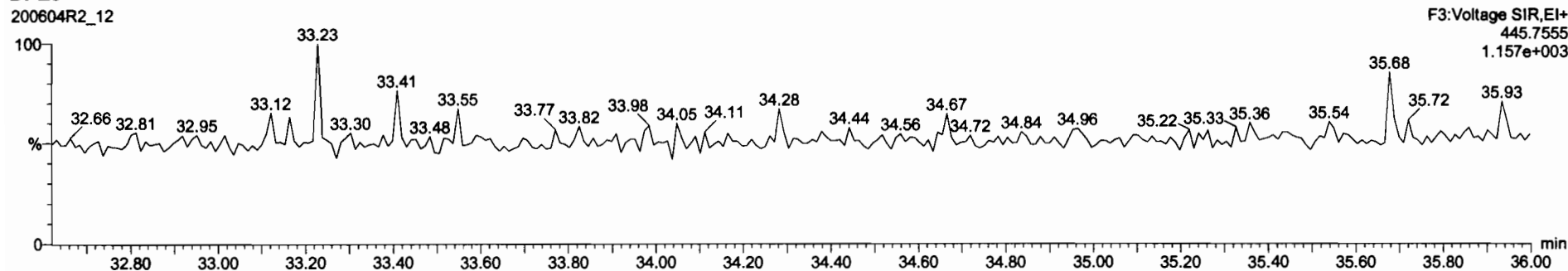
1,2,3,4,7,8-HxCDF

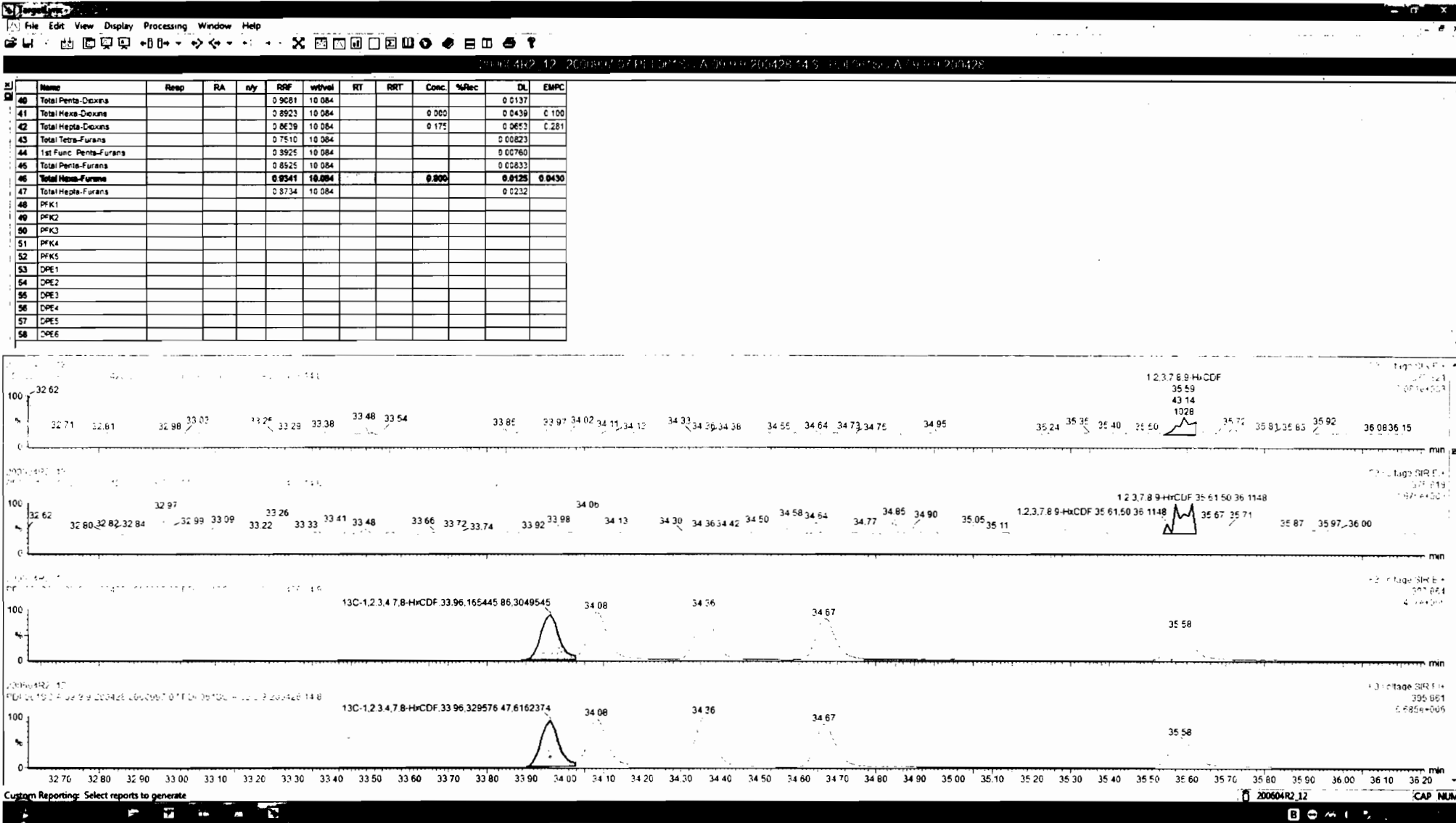


13C-1,2,3,4,7,8-HxCDF



DPE3





Name	Resp	RA	sy	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9081	10.084				0.0137		
41 Total Hexa-Dioxins				0.8923	10.084			0.000	0.0439	0.100	
42 Total Hepta-Dioxins				0.8639	10.084			0.175	0.0653	C.281	
43 Total Tetra-Furans				0.7510	10.084				0.00823		
44 1st Func. Penta-Furans				0.3925	10.084				0.00760		
45 Total Penta-Furans				0.8525	10.084				0.00833		
46 Total Hexa-Furans				0.9341	10.084			0.800	0.0125	0.0430	
47 Total Hepta-Furans				0.8734	10.084				0.0232		
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											

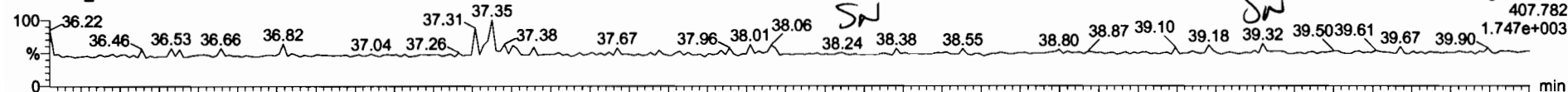
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Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

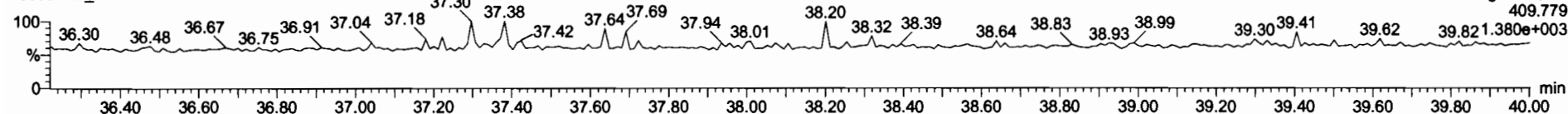
Name: 200604R2_12, Date: 05-Jun-2020, Time: 04:28:19, ID: 2000997-07 PDI-061SC-A-09-9.9-200428 14.8, Description: PDI-061SC-A-09-9.9-200428

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

200604R2_12



200604R2_12

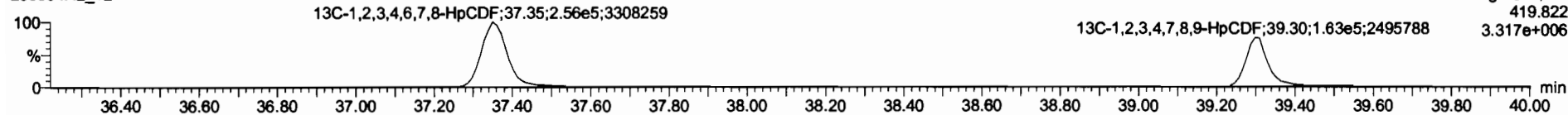


13C-1,2,3,4,6,7,8-HpCDF

200604R2_12

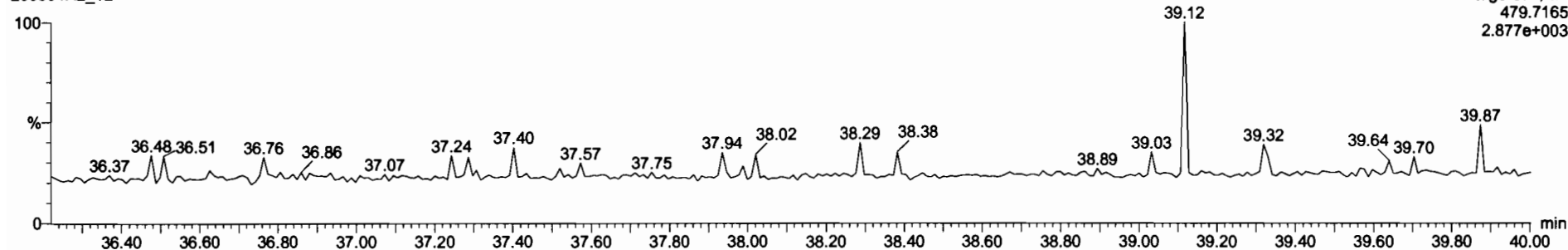


200604R2_12



DPE4

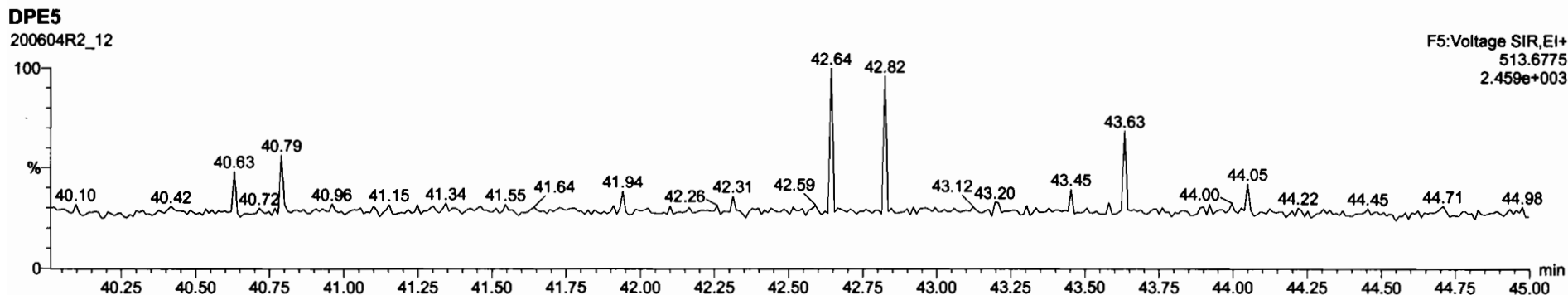
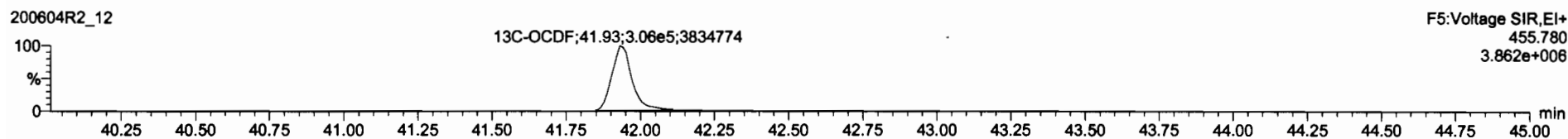
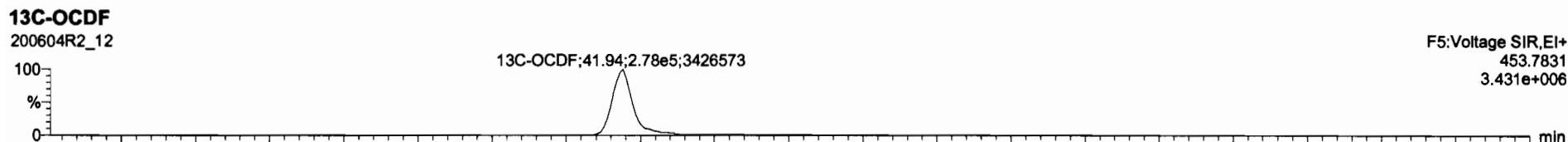
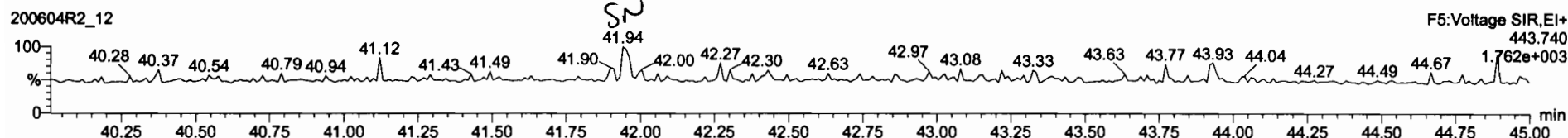
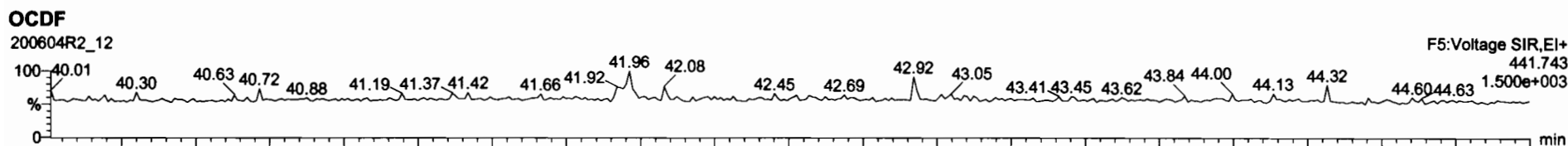
200604R2_12



Dataset: Untitled

Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_12, Date: 05-Jun-2020, Time: 04:28:19, ID: 2000997-07 PDI-061SC-A-09-9.9-200428 14.8, Description: PDI-061SC-A-09-9.9-200428

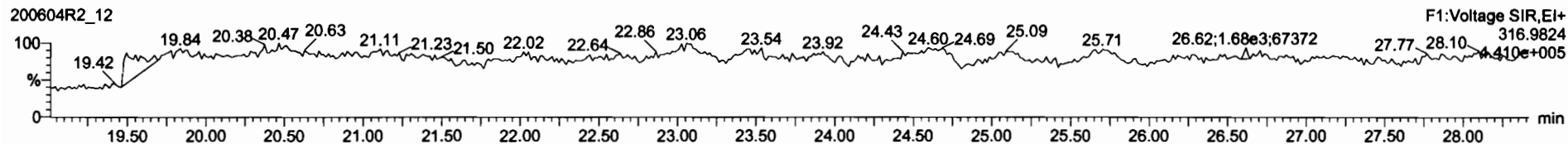


Dataset: Untitled

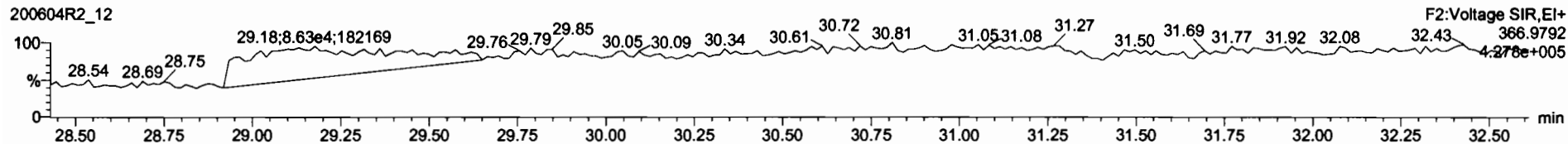
Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_12, Date: 05-Jun-2020, Time: 04:28:19, ID: 2000997-07 PDI-061SC-A-09-9.9-200428 14.8, Description: PDI-061SC-A-09-9.9-200428

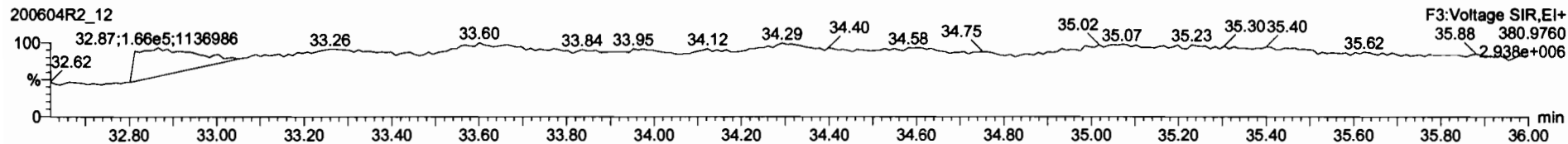
PFK1



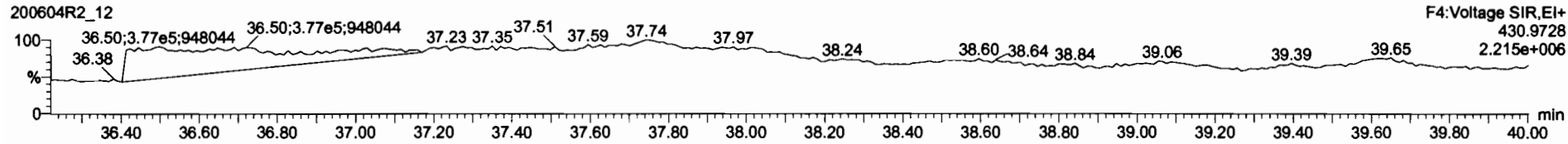
PFK2



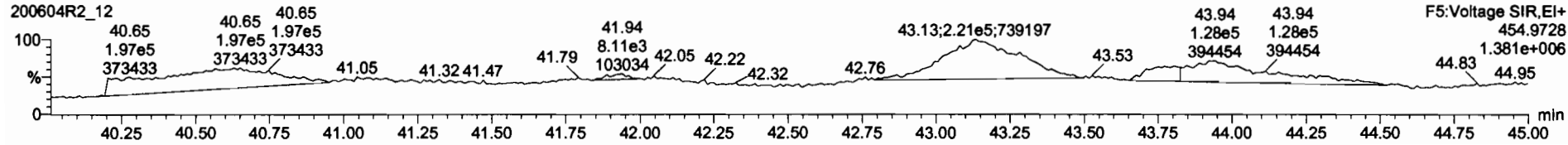
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200604R2\200604R2-13.qld

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Printed: Friday, June 05, 2020 12:35:02 Pacific Daylight Time

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Method: Untitled 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R2_13, Date: 05-Jun-2020, Time: 05:14:35, ID: 2000997-08 PDI-061SC-B-00-02-200428 16.18, Description: PDI-061SC-B-00-02-200428

#	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	0.888	10.018	26.546		1.001				0.0514	
2	1,2,3,7,8-PeCDD			NO	0.908	10.018	31.488		1.001				0.124	
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.018	34.857		1.000				0.129	
4	1,2,3,6,7,8-HxCDD	1.29e3	1.40	NO	0.892	10.018	34.953	34.96	1.000	1.000	0.55152		0.131	0.552
5	1,2,3,7,8,9-HxCDD			NO	0.887	10.018	35.241		1.000				0.150	
6	1,2,3,4,6,7,8-HpCDD	2.19e4	1.04	NO	0.864	10.018	38.778	38.78	1.000	1.000	15.677		0.278	15.7
7	OCDD	1.67e5	0.85	NO	0.914	10.018	41.749	41.76	1.000	1.000	130.97		0.523	131
8	2,3,7,8-TCDF	2.71e5	0.73	NO	0.751	10.018	25.641	25.63	1.001	1.001	67.700	(54.2)	0.133	67.7
9	1,2,3,7,8-PeCDF	6.01e5	1.56	NO	0.893	10.018	30.205	30.20	1.001	1.001	154.09		0.278	154
10	2,3,4,7,8-PeCDF	2.00e5	1.51	NO	0.935	10.018	31.180	31.18	1.001	1.000	50.875		0.259	50.9
11	1,2,3,4,7,8-HxCDF	2.38e5	1.20	NO	0.884	10.018	33.963	33.98	1.000	1.001	103.81		0.314	104
12	1,2,3,6,7,8-HxCDF	5.76e4	1.20	NO	0.889	10.018	34.101	34.10	1.000	1.000	21.326		0.279	21.3
13	2,3,4,6,7,8-HxCDF	1.36e4	1.12	NO	0.934	10.018	34.711	34.69	1.001	1.000	5.4870		0.312	5.49
14	1,2,3,7,8,9-HxCDF	1.51e4	1.10	NO	0.871	10.018	35.592	35.65	1.000	1.002	7.5952		0.447	7.60
15	1,2,3,4,6,7,8-HpCDF	1.62e4	1.00	NO	0.873	10.018	37.398	37.38	1.001	1.001	9.8610		0.202	9.86
16	1,2,3,4,7,8,9-HpCDF	6.33e3	0.96	NO	1.01	10.018	39.310	39.33	1.000	1.001	4.8992		0.221	4.90
17	OCDF	1.67e4	0.89	NO	0.806	10.018	41.940	41.95	1.000	1.000	12.477		0.229	12.5
18	13C-2,3,7,8-TCDD	8.29e5	0.79	NO	1.16	10.018	26.538	26.51	1.026	1.025	201.63	101	0.189	
19	13C-1,2,3,7,8-PeCDD	5.76e5	0.64	NO	0.849	10.018	31.729	31.47	1.227	1.217	190.89	95.6	0.289	
20	13C-1,2,3,4,7,8-HxCDD	3.89e5	1.28	NO	0.779	10.018	34.853	34.85	1.014	1.014	178.75	89.5	0.440	
21	13C-1,2,3,6,7,8-HxCDD	5.24e5	1.30	NO	1.02	10.018	34.966	34.95	1.017	1.017	184.43	92.4	0.337	
22	13C-1,2,3,7,8,9-HxCDD	4.47e5	1.26	NO	0.903	10.018	35.238	35.23	1.025	1.025	177.29	88.8	0.380	
23	13C-1,2,3,4,6,7,8-HpCDD	3.22e5	1.10	NO	0.689	10.018	38.764	38.77	1.128	1.128	167.38	83.8	0.321	
24	13C-OCDD	5.56e5	0.91	NO	0.652	10.018	41.788	41.75	1.216	1.215	305.19	76.4	0.721	
25	13C-2,3,7,8-TCDF	1.06e6	0.78	NO	1.06	10.018	25.578	25.61	0.989	0.991	190.94	95.6	0.247	
26	13C-1,2,3,7,8-PeCDF	8.72e5	1.60	NO	0.838	10.018	30.111	30.18	1.165	1.167	197.67	99.0	0.404	
27	13C-2,3,4,7,8-PeCDF	8.41e5	1.58	NO	0.817	10.018	31.065	31.16	1.202	1.205	195.57	98.0	0.414	
28	13C-1,2,3,4,7,8-HxCDF	5.18e5	0.50	NO	1.01	10.018	33.983	33.96	0.989	0.988	184.22	92.3	0.681	
29	13C-1,2,3,6,7,8-HxCDF	6.06e5	0.51	NO	1.17	10.018	34.107	34.09	0.992	0.992	185.98	93.2	0.588	
30	13C-2,3,4,6,7,8-HxCDF	5.30e5	0.51	NO	1.02	10.018	34.681	34.68	1.009	1.009	185.83	93.1	0.671	
31	13C-1,2,3,7,8,9-HxCDF	4.56e5	0.49	NO	0.860	10.018	35.581	35.59	1.035	1.036	190.07	95.2	0.798	

Dataset: U:\VG12.PRO\Results\200604R2\200604R2-13.qld

Last Altered: Friday, June 05, 2020 12:34:43 Pacific Daylight Time
Printed: Friday, June 05, 2020 12:35:02 Pacific Daylight Time

Name: 200604R2_13, Date: 05-Jun-2020, Time: 05:14:35, ID: 2000997-08 PDI-061SC-B-00-02-200428 16.18, Description: PDI-061SC-B-00-02-200428

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	Area	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.75e5	0.44	NO	0.774	10.018	37.331	37.36	1.086	1.087	173.23	86.8	0.645	
33	13C-1,2,3,4,7,8,9-HpCDF	2.55e5	0.43	NO	0.521	10.018	39.362	39.31	1.145	1.144	174.98	87.6	0.959	
34	13C-OCDF	6.63e5	0.87	NO	0.746	10.018	41.960	41.94	1.221	1.220	318.17	79.7	0.523	
35	37Cl-2,3,7,8-TCDD	3.23e5			1.04	10.018	26.569	26.53	1.028	1.026	87.737	110	0.0853	
36	13C-1,2,3,4-TCDD	7.10e5	0.79	NO	1.00	10.018	25.890	25.85	1.000	1.000	199.65	100	0.218	
37	13C-1,2,3,4-TCDF	1.05e6	0.78	NO	1.00	10.018	24.360	24.16	1.000	1.000	199.65	100	0.262	
38	13C-1,2,3,4,6,9-HxCDF	5.58e5	0.51	NO	1.00	10.018	34.420	34.37	1.000	1.000	199.65	100	0.686	
39	Total Tetra-Dioxins				0.888	10.018	24.620		0.000		0.65272		0.0514	0.653
40	Total Penta-Dioxins				0.908	10.018	29.960		0.000		0.39785		0.124	0.398
41	Total Hexa-Dioxins				0.892	10.018	33.635		0.000		4.2878		0.142	4.29
42	Total Hepta-Dioxins				0.864	10.018	37.640		0.000		34.667		0.278	34.7
43	Total Tetra-Furans				0.751	10.018	23.610		0.000		141.69		0.133	143
44	1st Func. Penta-Furans				0.893	10.018	27.580		0.000		3.4161		0.0244	3.42
45	Total Penta-Furans				0.893	10.018	29.275		0.000		358.02		0.275	358
46	Total Hexa-Furans				0.934	10.018	33.555		0.000		156.31		0.318	156
47	Total Hepta-Furans				0.873	10.018	37.835		0.000		23.480		0.224	23.5

Dataset: U:\VG12.PRO\Results\200604R2\200604R2-13.qld

Last Altered: Friday, June 05, 2020 12:34:43 Pacific Daylight Time
 Printed: Friday, June 05, 2020 12:35:02 Pacific Daylight Time

Method: Untitled 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R2_13, Date: 05-Jun-2020, Time: 05:14:35, ID: 2000997-08 PDI-061SC-B-00-02-200428 16.18, Description: PDI-061SC-B-00-02-200428

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
Total Tetra-Dioxins	22.49	4.252e3	5.040e3	3.378e2	4.696e2	0.72	NO	8.073e2	0.21891	0.21891	0.0514
Total Tetra-Dioxins	26.26	1.100e4	1.121e4	7.059e2	8.940e2	0.79	NO	1.600e3	0.43381	0.43381	0.0514

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
Total Penta-Dioxins	29.25	4.317e3	6.960e3	2.621e2	4.861e2	0.54	NO	7.483e2	0.28556	0.28556	0.124
Total Penta-Dioxins	29.74	2.614e3	2.820e3	1.117e2	1.825e2	0.61	NO	2.943e2	0.11229	0.11229	0.124

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
Total Hexa-Dioxins	33.35	3.793e4	2.901e4	2.068e3	1.707e3	1.21	NO	3.776e3	1.8644	1.8644	0.142
Total Hexa-Dioxins	34.17	3.088e4	2.704e4	2.060e3	1.731e3	1.19	NO	3.791e3	1.8719	1.8719	0.142
1,2,3,6,7,8-HxCDD	34.96	1.232e4	9.718e3	7.534e2	5.373e2	1.40	NO	1.291e3	0.55152	0.55152	0.131

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
Total Hepta-Dioxins	37.76	1.735e5	1.681e5	1.329e4	1.318e4	1.01	NO	2.647e4	18.990	18.990	0.278
1,2,3,4,6,7,8-HpCDD	38.78	1.560e5	1.586e5	1.112e4	1.074e4	1.04	NO	2.185e4	15.677	15.677	0.278

Dataset: U:\VG12.PRO\Results\200604R2\200604R2-13.qld

Last Altered: Friday, June 05, 2020 12:34:43 Pacific Daylight Time
Printed: Friday, June 05, 2020 12:35:02 Pacific Daylight Time

Name: 200604R2_13, Date: 05-Jun-2020, Time: 05:14:35, ID: 2000997-08 PDI-061SC-B-00-02-200428 16.18, Description: PDI-061SC-B-00-02-200428

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Qty	Resp	Conc	EMPC	DL
Total Tetra-Furans	21.53	7.110e3	1.106e4	6.431e2	8.540e2	0.75	NO	1.497e3	0.37385	0.37385	0.133
Total Tetra-Furans	22.49	2.027e5	2.966e5	1.962e4	2.715e4	0.72	NO	4.677e4	11.679	11.679	0.133
Total Tetra-Furans	22.98	2.778e4	2.958e4	2.446e3	3.029e3	0.81	NO	5.475e3	1.3672	1.3672	0.133
Total Tetra-Furans	23.33	9.799e3	1.657e4	8.963e2	1.240e3	0.72	NO	2.136e3	0.53346	0.53346	0.133
Total Tetra-Furans	24.19	1.332e4	1.717e4	1.506e3	2.158e3	0.70	NO	3.664e3	0.91507	0.91507	0.133
Total Tetra-Furans	24.70	1.203e6	1.580e6	9.603e4	1.291e5	0.74	NO	2.251e5	56.220	56.220	0.133
Total Tetra-Furans	24.84	1.460e4	1.831e4	8.663e2	1.061e3	0.82	NO	1.928e3	0.48133	0.48133	0.133
Total Tetra-Furans	25.00	1.556e4	1.869e4	1.330e3	1.907e3	0.70	NO	3.237e3	0.80844	0.80844	0.133
Total Tetra-Furans	25.54	8.367e3	9.902e3	3.181e2	3.689e2	0.86	NO	6.870e2	0.17156	0.17156	0.133
2,3,7,8-TCDF	25.63	1.529e6	2.089e6	1.147e5	1.564e5	0.73	NO	2.711e5	67.700	67.700	0.133
Total Tetra-Furans	25.81	1.502e4	1.978e4	1.308e3	1.926e3	0.68	NO	0.000e0	0.00000	0.80763	0.133
Total Tetra-Furans	27.65	3.837e4	4.853e4	2.586e3	3.196e3	0.81	NO	5.782e3	1.4438	1.4438	0.133

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Qty	Resp	Conc	EMPC	DL
1st Func. Penta-Furans	27.62	1.384e5	7.287e4	8.146e3	4.933e3	1.65	NO	1.308e4	3.4161	3.4161	0.0244

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Qty	Resp	Conc	EMPC	DL
Total Penta-Furans	29.07	4.329e4	2.619e4	2.270e3	1.428e3	1.59	NO	3.698e3	0.96573	0.96573	0.275
Total Penta-Furans	29.21	3.087e6	1.994e6	1.775e5	1.133e5	1.57	NO	2.908e5	75.940	75.940	0.275
Total Penta-Furans	29.31	5.905e4	3.717e4	2.900e3	1.724e3	1.68	NO	4.624e3	1.2078	1.2078	0.275
Total Penta-Furans	29.79	1.751e4	1.196e4	1.499e3	1.039e3	1.44	NO	2.539e3	0.66306	0.66306	0.275
Total Penta-Furans	30.02	5.481e5	3.539e5	2.903e4	1.903e4	1.53	NO	4.806e4	12.552	12.552	0.275
1,2,3,7,8-PeCDF	30.20	6.317e6	4.074e6	3.657e5	2.351e5	1.56	NO	6.008e5	154.09	154.09	0.278
Total Penta-Furans	30.46	1.756e6	1.077e6	9.876e4	6.203e4	1.59	NO	1.608e5	41.994	41.994	0.275
2,3,4,7,8-PeCDF	31.18	2.404e6	1.627e6	1.206e5	7.965e4	1.51	NO	2.003e5	50.875	50.875	0.259
Total Penta-Furans	31.21	1.583e6	1.011e6	4.033e4	2.496e4	1.62	NO	6.529e4	17.052	17.052	0.275
Total Penta-Furans	32.11	1.135e5	8.026e4	6.438e3	3.858e3	1.67	NO	1.030e4	2.6891	2.6891	0.275

Dataset: U:\VG12.PRO\Results\200604R2\200604R2-13.qld

Last Altered: Friday, June 05, 2020 12:34:43 Pacific Daylight Time
 Printed: Friday, June 05, 2020 12:35:02 Pacific Daylight Time

Name: 200604R2_13, Date: 05-Jun-2020, Time: 05:14:35, ID: 2000997-08 PDI-061SC-B-00-02-200428 16.18, Description: PDI-061SC-B-00-02-200428

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hexa-Furans	32.80	4.309e4	3.287e4	1.794e3	1.550e3	1.16	NO	3.345e3	1.3545	1.3545	0.318
Total Hexa-Furans	32.96	2.397e5	2.032e5	1.234e4	1.044e4	1.18	NO	2.278e4	9.2254	9.2254	0.318
Total Hexa-Furans	33.52	9.090e4	7.494e4	4.743e3	3.916e3	1.21	NO	8.659e3	3.5068	3.5068	0.318
Total Hexa-Furans	33.88	2.413e4	1.951e4	1.148e3	1.054e3	1.09	NO	2.202e3	0.89174	0.89174	0.318
1,2,3,4,7,8-HxCDF	33.98	2.341e6	1.908e6	1.299e5	1.084e5	1.20	NO	2.384e5	103.81	103.81	0.314
1,2,3,6,7,8-HxCDF	34.10	5.163e5	4.265e5	3.137e4	2.619e4	1.20	NO	5.757e4	21.326	21.326	0.279
2,3,4,6,7,8-HxCDF	34.69	1.338e5	1.076e5	7.185e3	6.429e3	1.12	NO	1.361e4	5.4870	5.4870	0.312
1,2,3,7,8,9-HxCDF	35.65	1.843e5	1.524e5	7.922e3	7.190e3	1.10	NO	1.511e4	7.5952	7.5952	0.447
Total Hexa-Furans	35.66	1.595e5	1.340e5	4.122e3	3.556e3	1.16	NO	7.678e3	3.1095	3.1095	0.318

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1,2,3,4,6,7,8-HpCDF	37.38	1.150e5	1.053e5	8.090e3	8.073e3	1.00	NO	1.616e4	9.8610	9.8610	0.202
Total Hepta-Furans	37.98	7.210e4	7.625e4	5.959e3	6.043e3	0.99	NO	1.200e4	8.7201	8.7201	0.224
1,2,3,4,7,8,9-HpCDF	39.33	4.941e4	5.030e4	3.106e3	3.221e3	0.96	NO	6.327e3	4.8992	4.8992	0.221

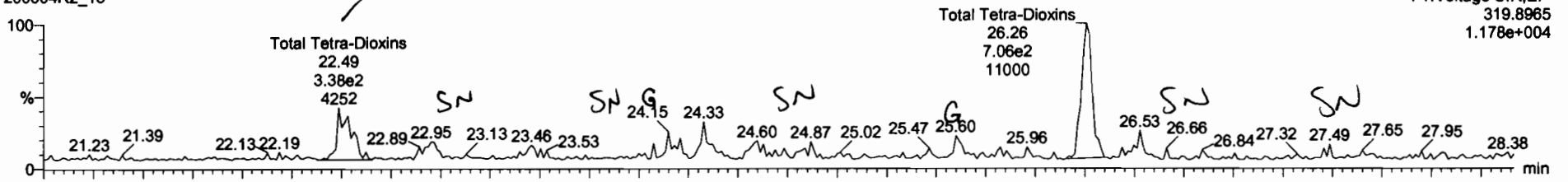
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Name: 200604R2_13, Date: 05-Jun-2020, Time: 05:14:35, ID: 2000997-08 PDI-061SC-B-00-02-200428 16.18, Description: PDI-061SC-B-00-02-200428

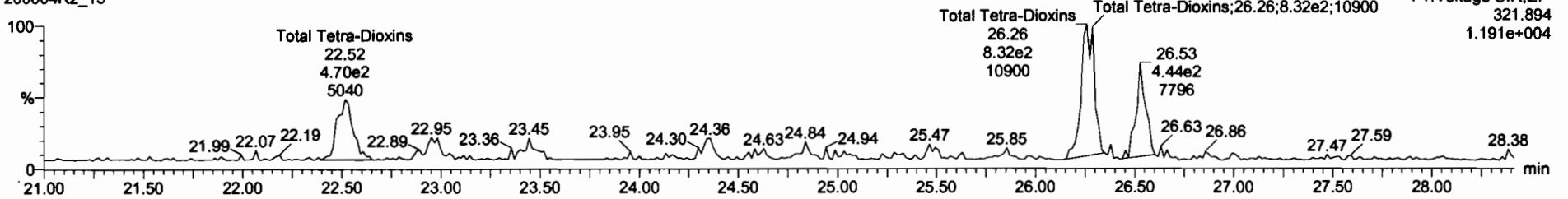
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200604R2_13



F1: Voltage SIR, EI+
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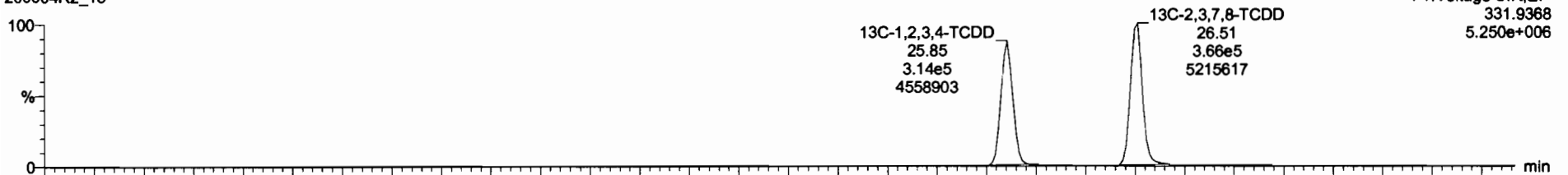
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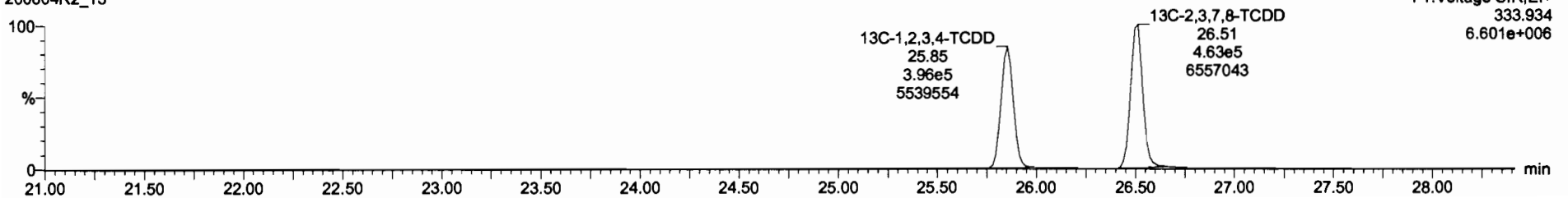
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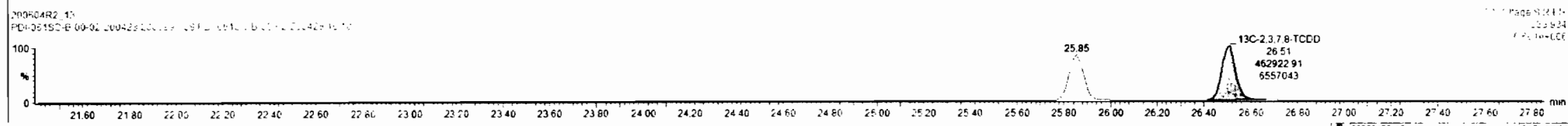
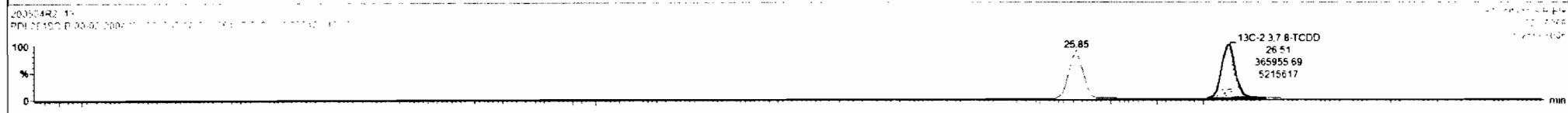
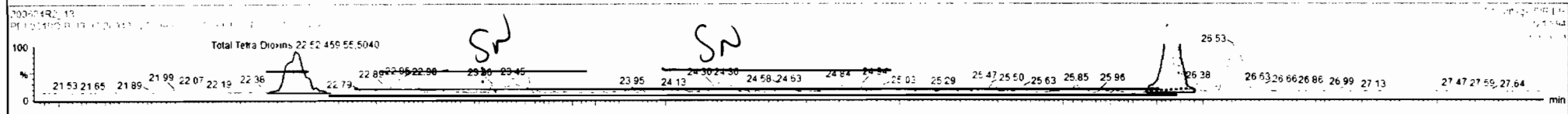
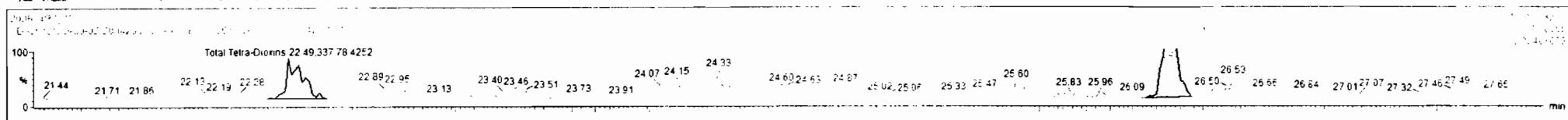
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200604R2_13



F1: Voltage SIR, EI+
333.934
6.601e+006

Name	Resp	RA	ny	RRF	wfvol	RT	RRT	Conc.	%Rec	DL	EMPC
38 Total Tetra-Dioxins				0.8983	10.018			0.398	0.0014	0.853	
40 Total Penta-Dioxins				0.9081	10.018			0.398	0.124	0.398	
41 Total Hexa-Dioxins				0.8523	10.018			4.29	0.142	4.29	
42 Total Hepta-Dioxins				0.8639	10.018			34.7	0.278	34.7	
43 Total Tetra-Furans				0.7510	10.018			142	0.133	143	
44 1st Func Penta-Furans				0.8925	10.018			3.42	0.0244	3.42	
45 Total Penta-Furans				0.8925	10.018			358	0.275	358	
46 Total Hexa-Furans				0.9341	10.018			156	0.318	156	
47 Total Hepta-Furans				0.8734	10.018			23.5	0.224	23.5	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											



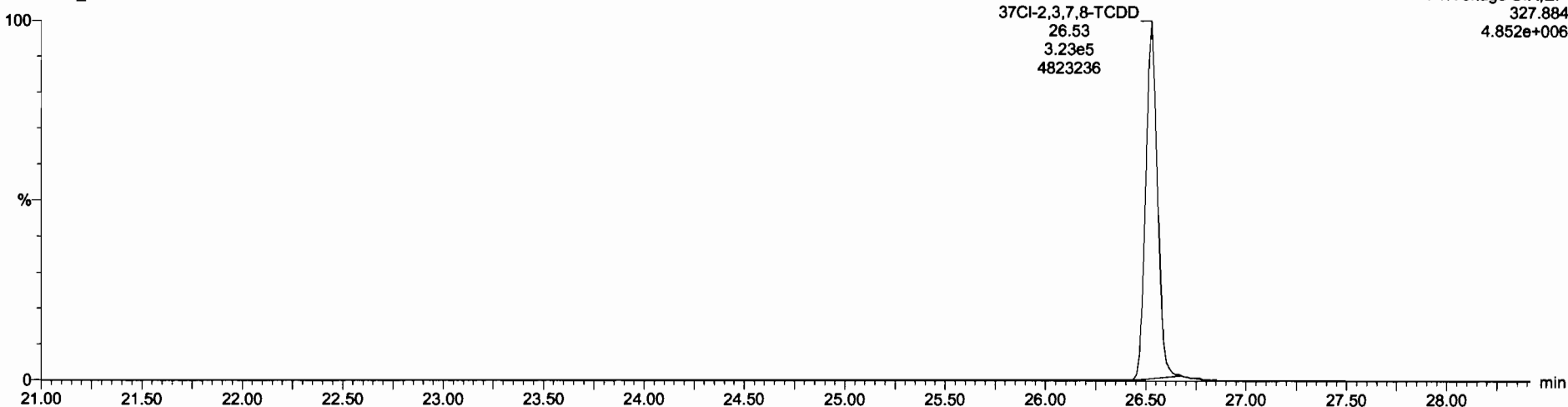
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Name: 200604R2_13, Date: 05-Jun-2020, Time: 05:14:35, ID: 2000997-08 PDI-061SC-B-00-02-200428 16.18, Description: PDI-061SC-B-00-02-200428

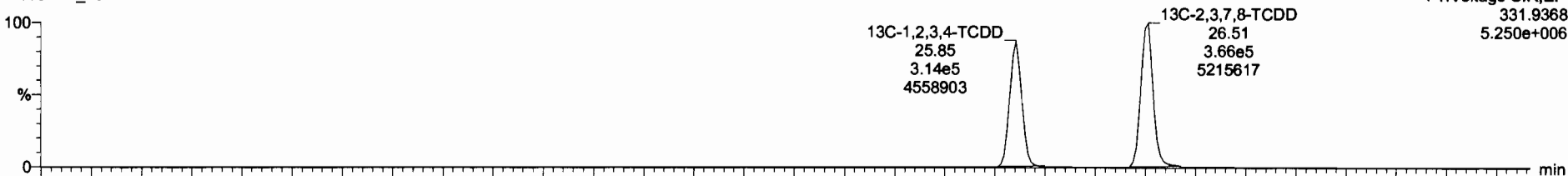
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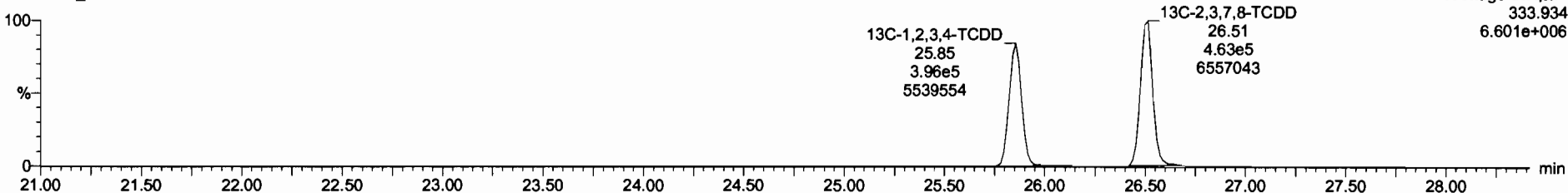


13C-1,2,3,4-TCDD

200604R2_13



200604R2_13



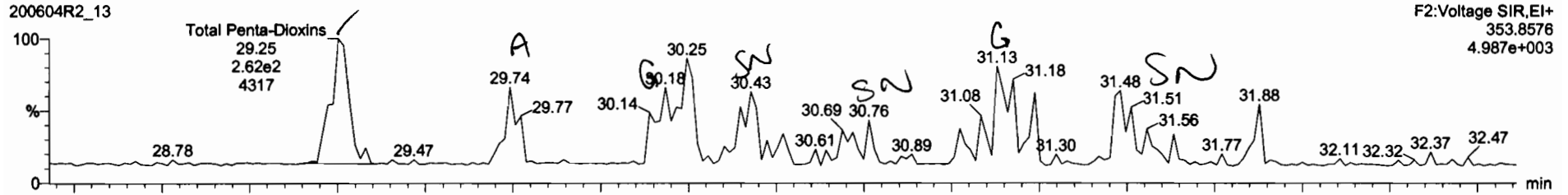
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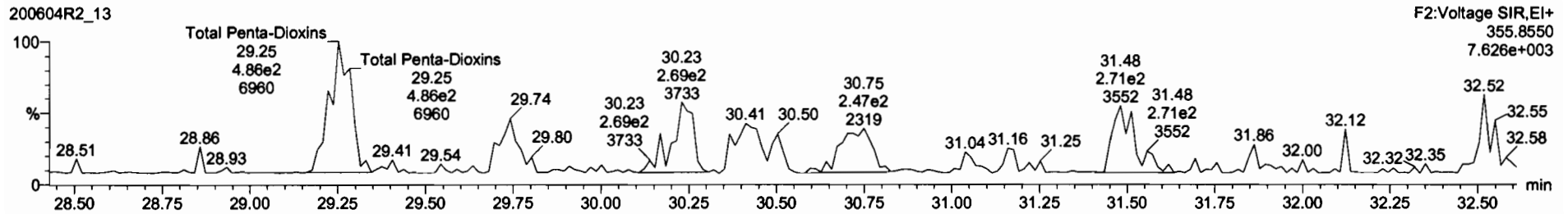
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1,2,3,7,8-PeCDD

200604R2_13

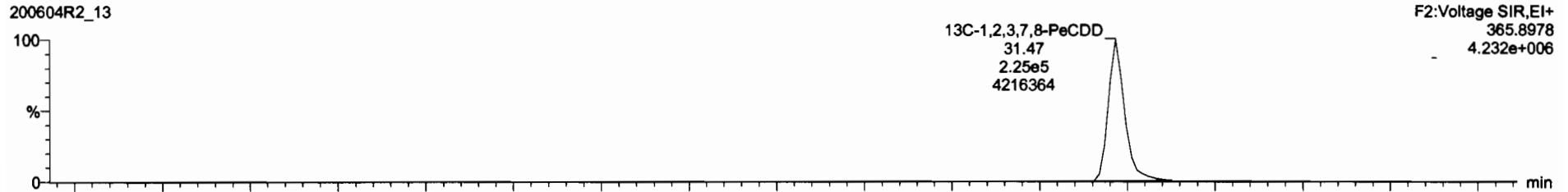


200604R2_13

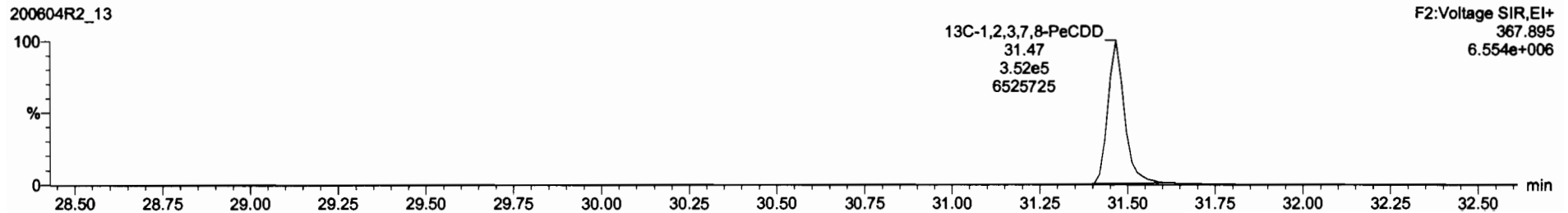


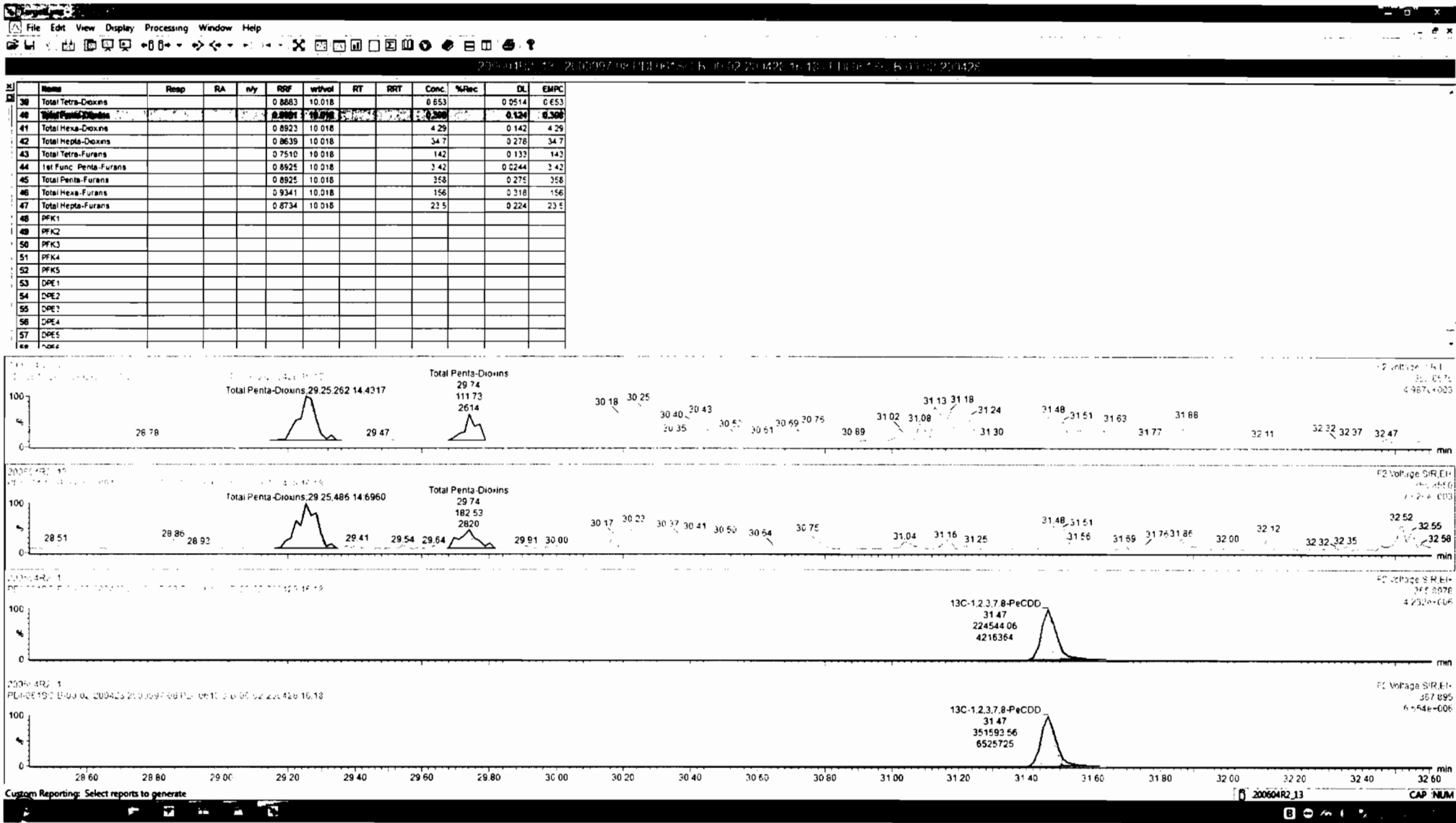
13C-1,2,3,7,8-PeCDD

200604R2_13



200604R2_13





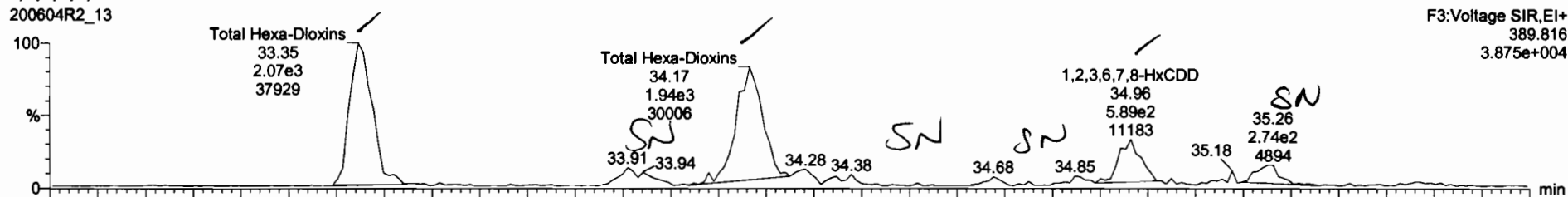
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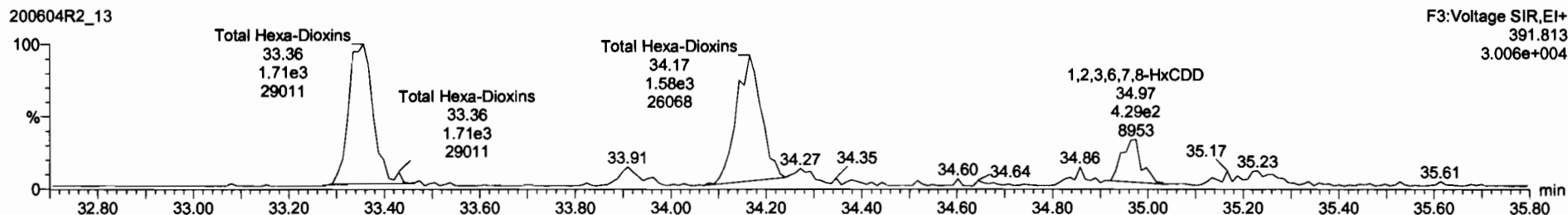
Name: 200604R2_13, Date: 05-Jun-2020, Time: 05:14:35, ID: 2000997-08 PDI-061SC-B-00-02-200428 16.18, Description: PDI-061SC-B-00-02-200428

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

200604R2_13



200604R2_13

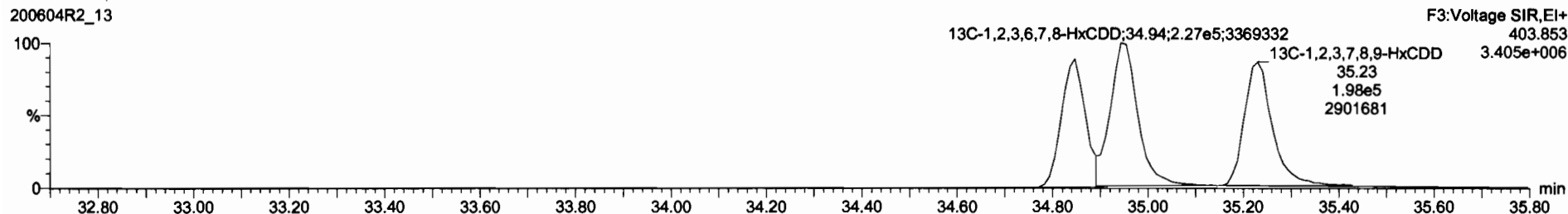


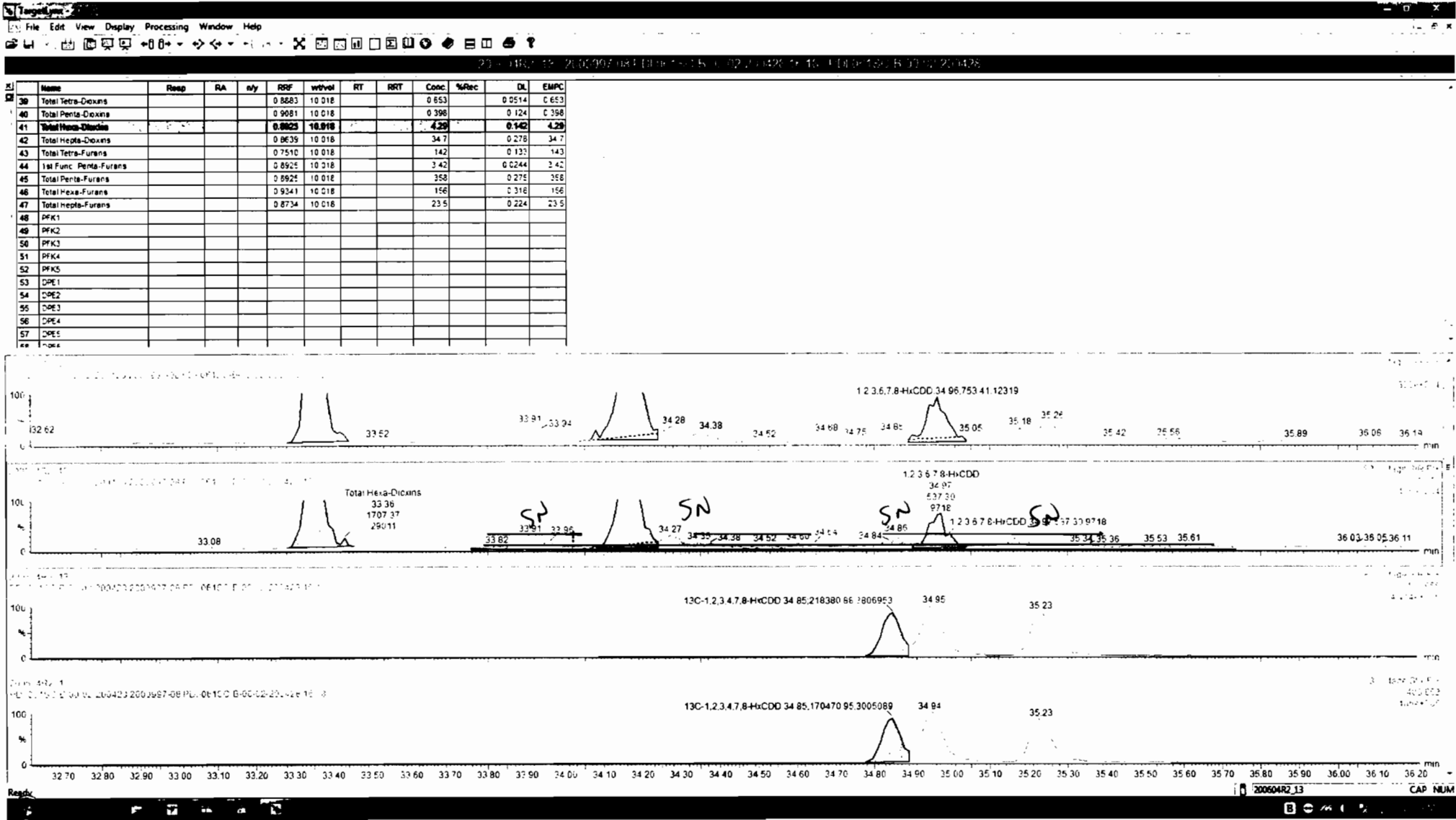
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200604R2_13



200604R2_13





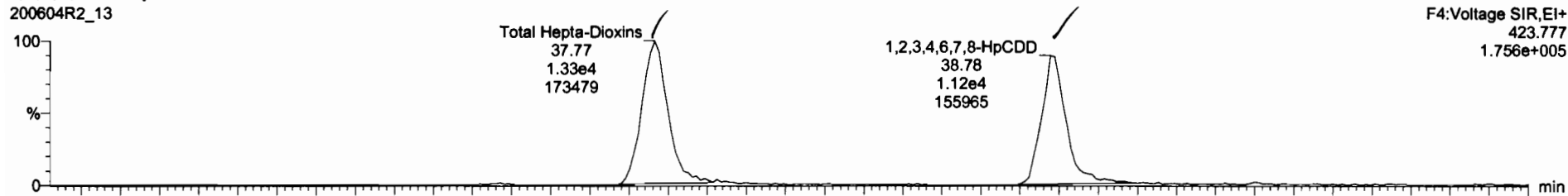
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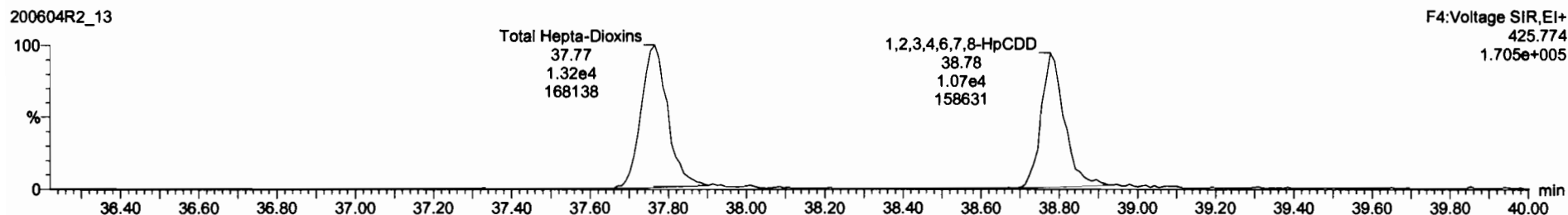
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1,2,3,4,6,7,8-HpCDD

200604R2_13

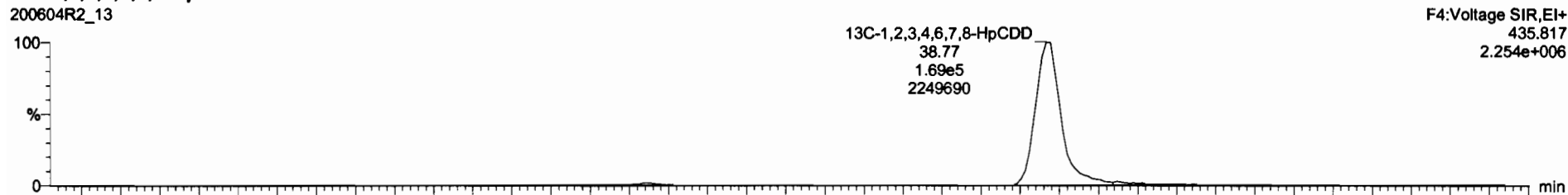


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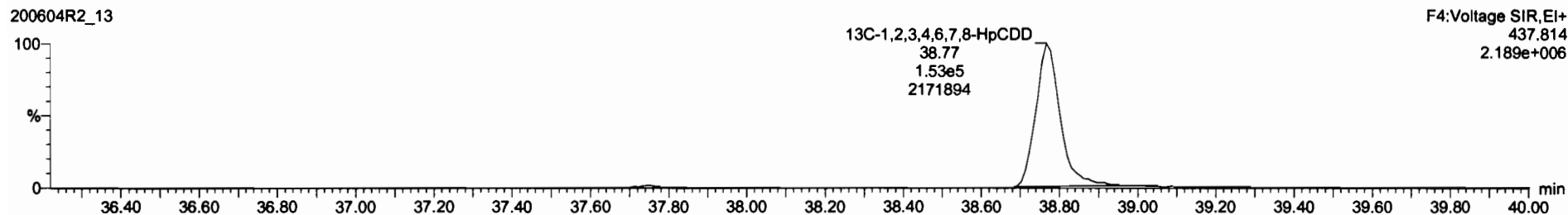


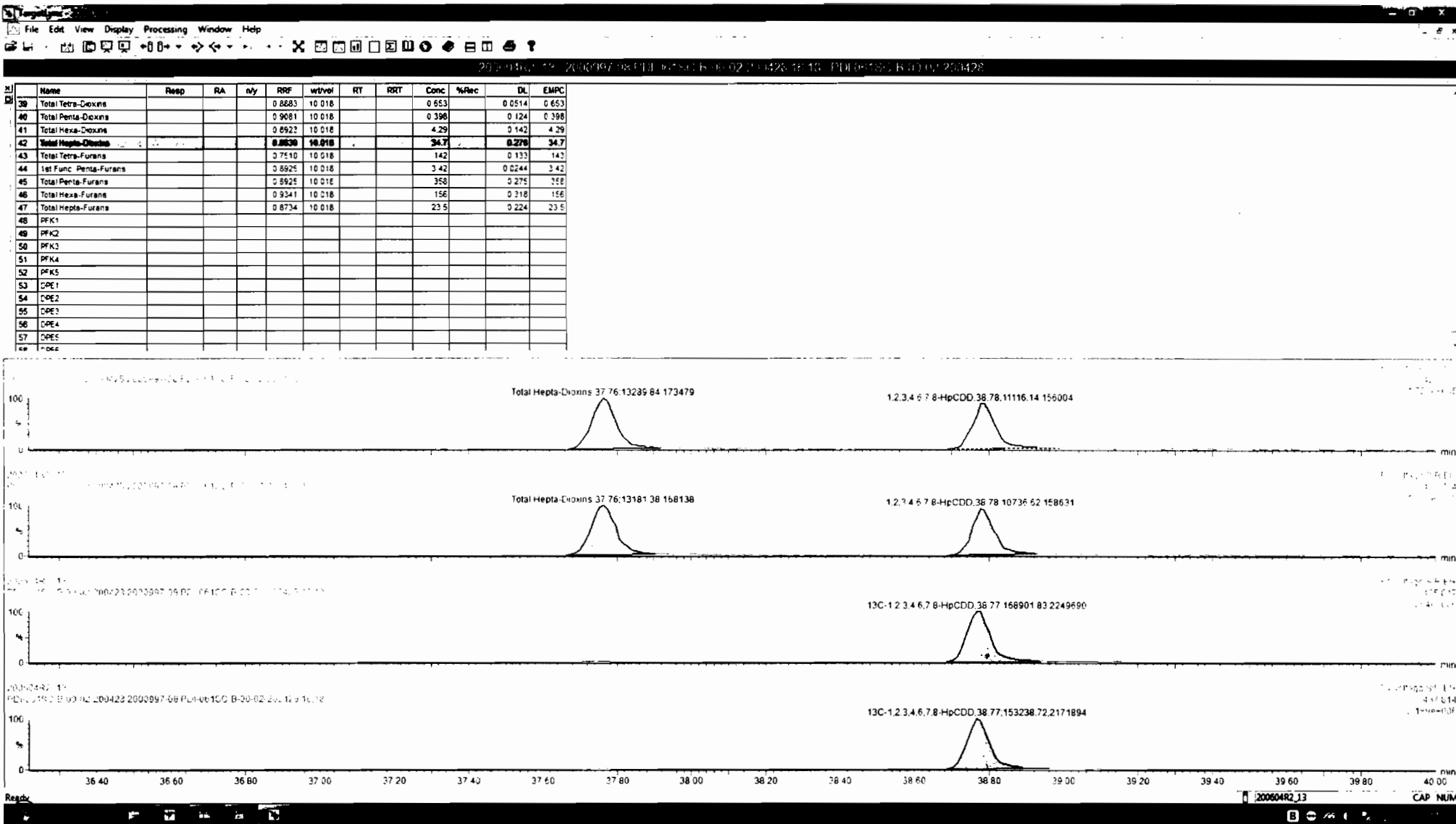
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200604R2_13



200604R2_13





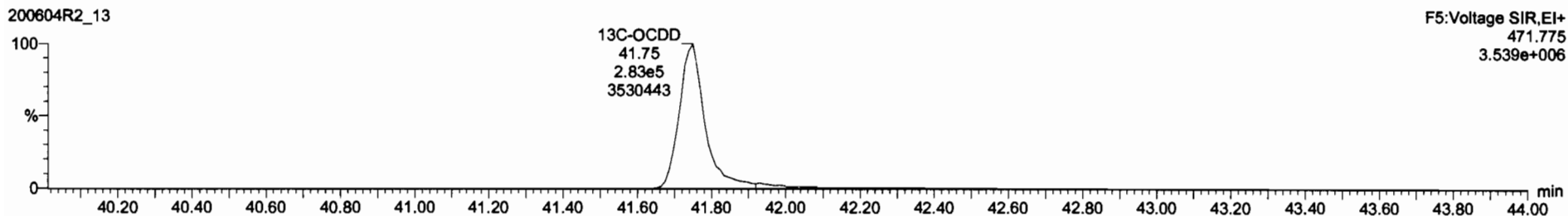
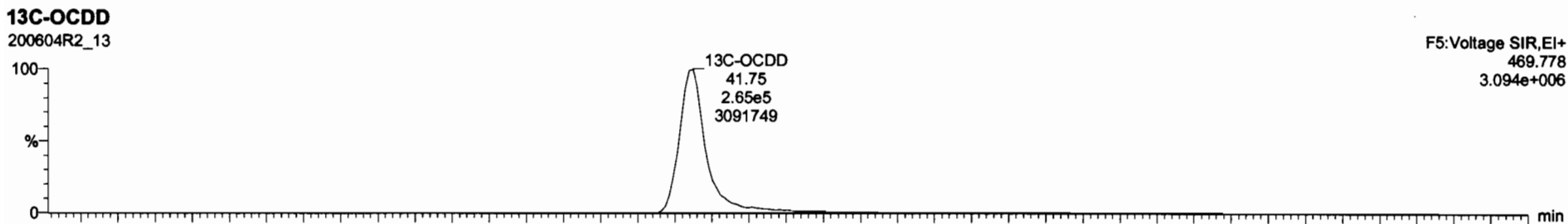
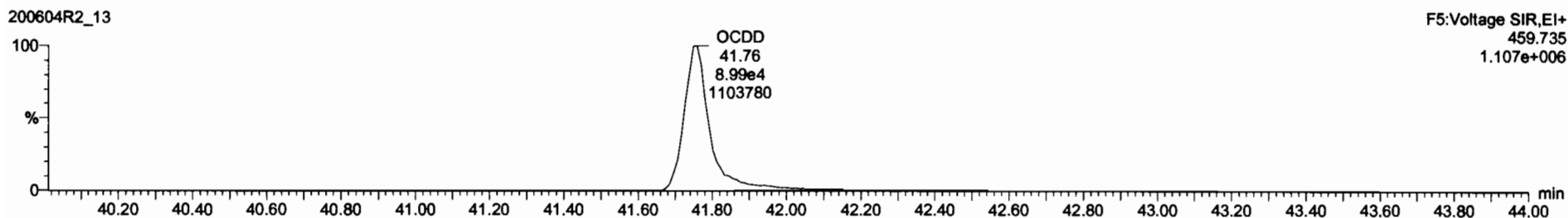
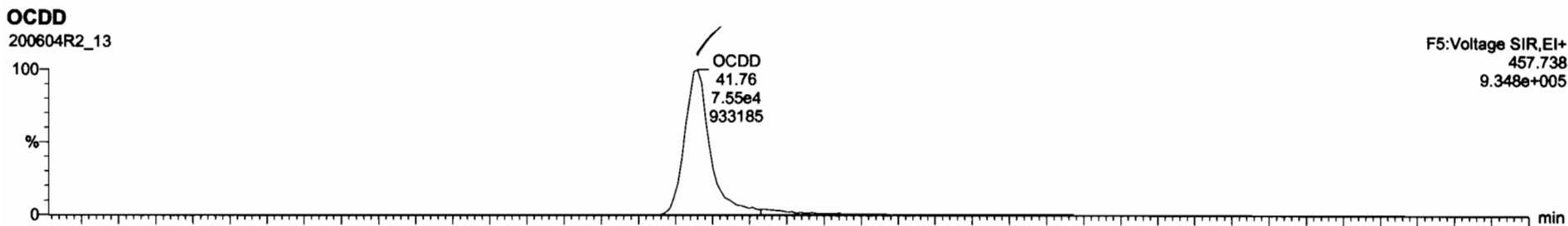
Name	Resp	RA	n/y	RRF	wtrvol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.8683	10.018			0.653	0.0514	0.653	
40 Total Penta-Dioxins				0.9081	10.018			0.398	0.124	0.398	
41 Total Hexa-Dioxins				0.6522	10.018			4.29	0.142	4.29	
42 Total Hepta-Dioxins				8.8630	10.018			34.7	0.270	34.7	
43 Total Tetra-Furans				0.7510	10.018			142	0.133	142	
44 1st Func. Penta-Furans				0.8925	10.018			3.42	0.0244	3.42	
45 Total Penta-Furans				0.8925	10.018			358	0.275	358	
46 Total Hexa-Furans				0.9341	10.018			156	0.218	156	
47 Total Hepta-Furans				0.8734	10.018			23.5	0.224	23.5	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											

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Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time

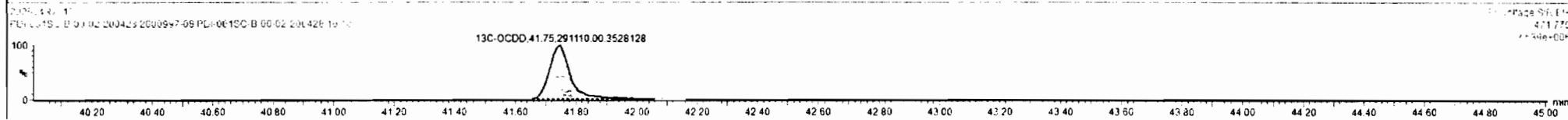
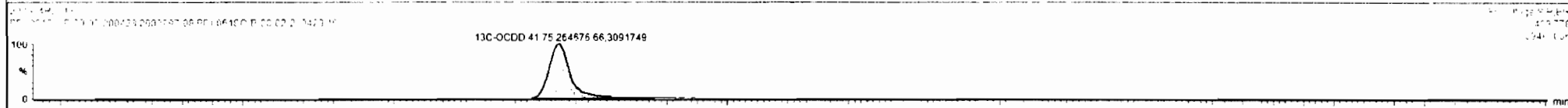
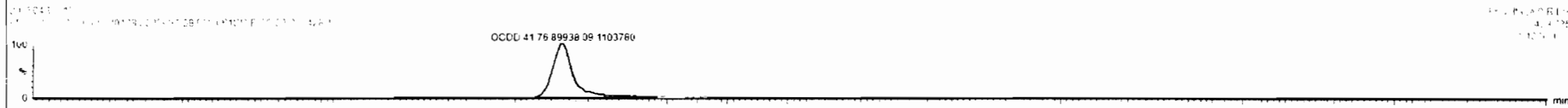
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Name: 200604R2_13, Date: 05-Jun-2020, Time: 05:14:35, ID: 2000997-08 PDI-061SC-B-00-02-200428 16.18, Description: PDI-061SC-B-00-02-200428



20060423 2000997 061018 10018 4176 1000 7.897 0.522 131

Name	Resp	RA	NY	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
7 OCDD	1.87e5	0.85	NO	0.9136	10.018	41.76	1.000	7.897		0.522	131
8 2,3,7,8-TCDF	2.71e5	0.73	NO	0.7510	10.018	25.83	1.001	67.7		0.133	67.7
9 1,2,3,7,8-PeCDF	6.01e5	1.56	NO	0.8925	10.018	30.20	1.000	154		0.278	154
10 2,3,4,7,8-PeCDF	2.00e5	1.51	NO	0.9348	10.018	31.18	1.000	50.9		0.259	50.9
11 1,2,3,4,7,8-HxCDF	2.38e5	1.20	NO	0.8845	10.018	33.98	1.001	104		0.314	104
12 1,2,3,6,7,8-HxCDF	5.76e4	1.20	NO	0.8892	10.018	34.10	1.000	21.2		0.279	21.2
13 2,3,4,6,7,8-HxCDF	1.96e4	1.12	NO	0.9341	10.018	34.69	1.000	5.49		0.312	5.49
14 1,2,3,7,8,9-HxCDF	1.51e4	1.10	NO	0.8707	10.018	35.65	1.002	7.60		0.447	7.59
15 1,2,3,4,6,7,8-HpCDF	1.62e4	1.00	NO	0.8734	10.018	37.38	1.001	5.86		0.202	5.86
16 1,2,3,4,7,8,9-HpCDF	6.33e3	0.96	NO	1.0128	10.018	39.33	1.000	4.90		0.221	4.90
17 OCDF	1.67e4	0.89	NO	0.8065	10.018	41.95	1.000	12.5		0.229	12.5
18 1,3C-2,3,7,8-TCDD	8.29e5	0.79	NO	1.1563	10.018	26.51	1.026	202	101	0.189	
19 1,3C-1,2,3,7,8-PeCDD	5.76e5	0.64	NO	0.8490	10.018	31.47	1.217	191	95.6	0.285	
20 1,3C-1,2,3,4,7,8-HxCDD	3.89e5	1.28	NO	0.7790	10.018	34.85	1.014	179	89.5	0.440	
21 1,3C-1,2,3,5,7,8-HxCDD	5.24e5	1.30	NO	1.0167	10.018	34.95	1.017	184	92.4	0.327	
22 1,3C-1,2,3,7,8,9-HxCDD	4.47e5	1.26	NO	0.9027	10.018	35.23	1.025	177	88.2	0.380	
23 1,3C-1,2,3,4,6,7,8-HpCDD	3.22e5	1.10	NO	0.6852	10.018	38.77	1.128	167	83.8	0.321	
24 1,3C-OCDD	5.56e5	0.91	NO	0.6521	10.018	41.75	1.215	305	76.4	0.721	
25 1,3C-2,3,7,8-TCDF	1.06e6	0.78	NO	1.0590	10.018	25.61	0.991	191	95.6	0.247	
26 1,3C-1,2,3,7,8-PeCDF	8.77e5	1.61	NO	0.8187	10.018	37.10	1.167	169	90.0	0.273	



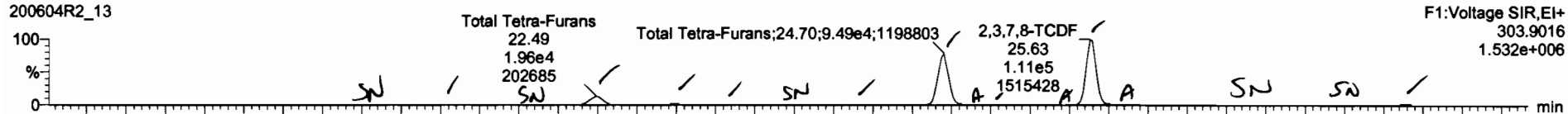
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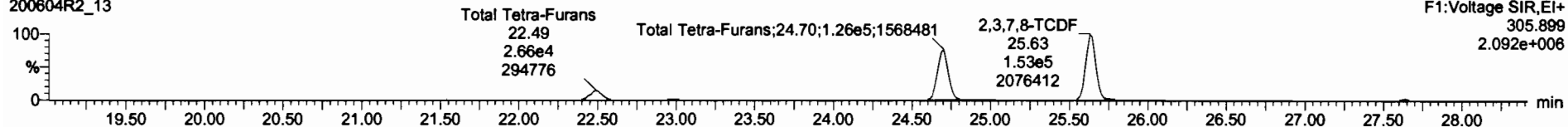
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2,3,7,8-TCDF

200604R2_13

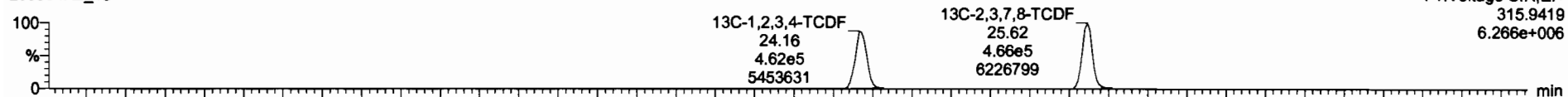


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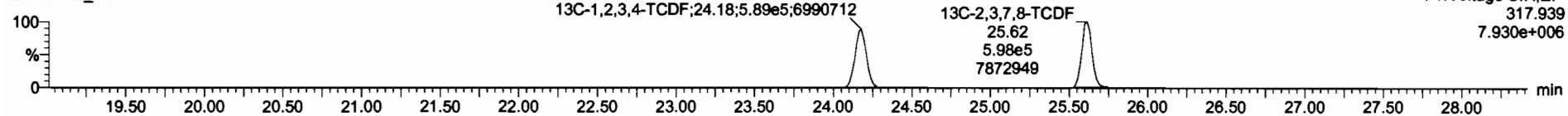


13C-2,3,7,8-TCDF

200604R2_13

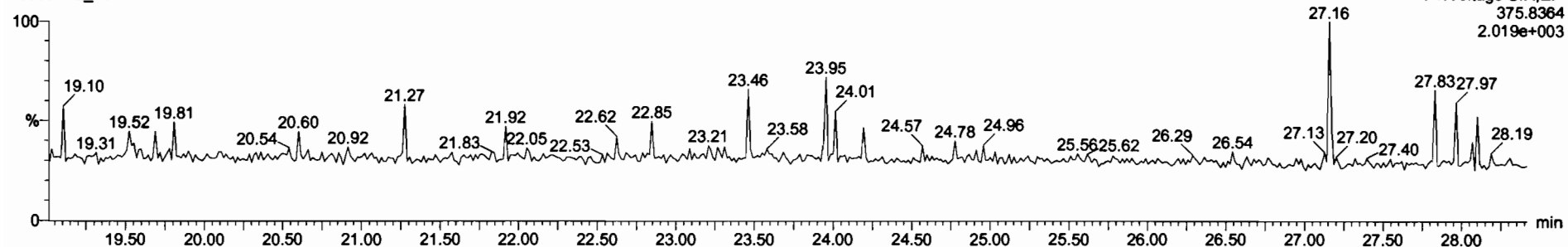


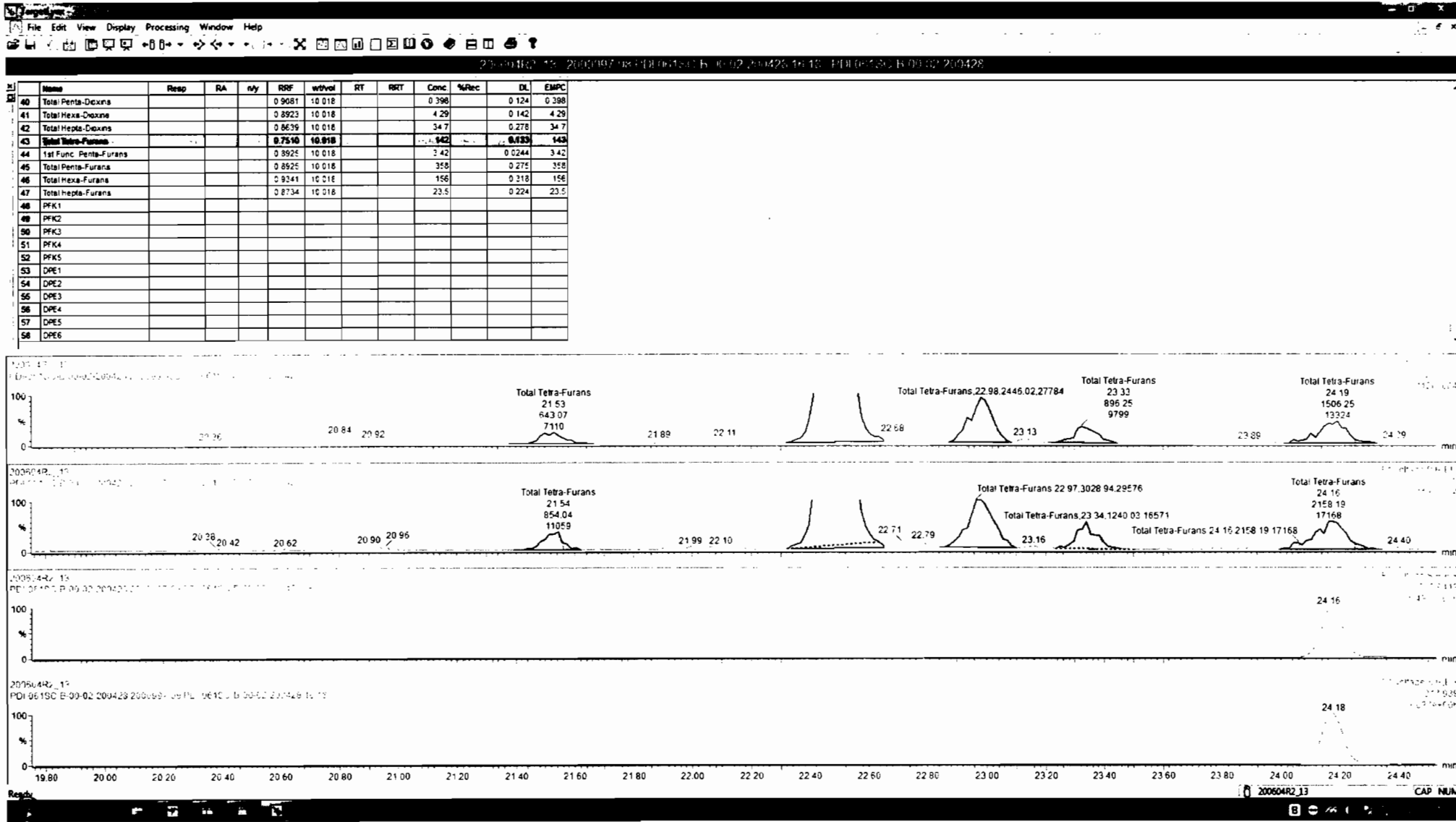
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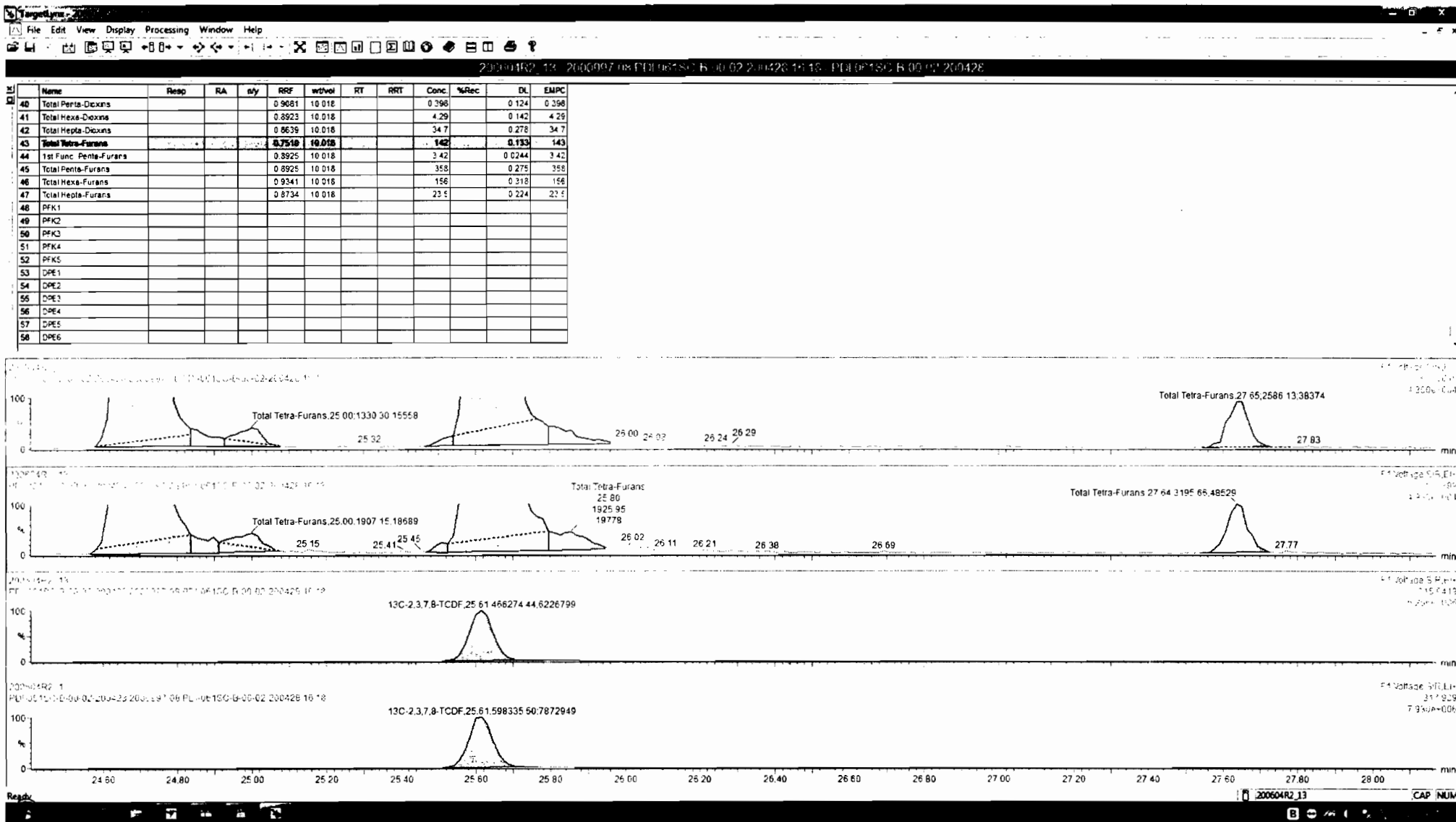
DPE1

200604R2_13





Name	Resp	RA	ny	RRF	wtval	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9081	10.018			0.398		0.124	0.398
41 Total Hexa-Dioxins				0.8923	10.018			4.29		0.142	4.29
42 Total Hepta-Dioxins				0.8639	10.018			34.7		0.278	34.7
43 Total Tetra-Furans				0.7510	10.018			142		0.433	143
44 1st Func. Penta-Furans				0.8925	10.018			3.42		0.0244	3.42
45 Total Penta-Furans				0.8925	10.018			358		0.275	358
46 Total Hexa-Furans				0.9341	10.018			156		0.218	156
47 Total hepta-Furans				0.8734	10.018			23.5		0.224	23.5
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9681	10.018			0.398	0.124	0.398	
41 Total Hexa-Dioxins				0.8923	10.018			4.29	0.142	4.29	
42 Total Hepta-Dioxins				0.8639	10.018			34.7	0.278	34.7	
43 Total Tetra-Furans				0.7519	10.018			142	0.133	143	
44 1st Func. Penta-Furans				0.8925	10.018			3.42	0.0244	3.42	
45 Total Penta-Furans				0.8925	10.018			358	0.275	358	
46 Total Hexa-Furans				0.9341	10.018			156	0.318	156	
47 Total Hepta-Furans				0.8734	10.018			23.5	0.224	23.5	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											

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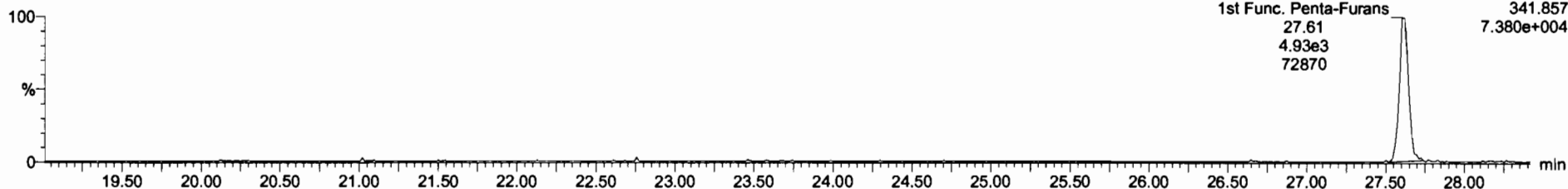
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1st Func. Penta-Furans

200604R2_13

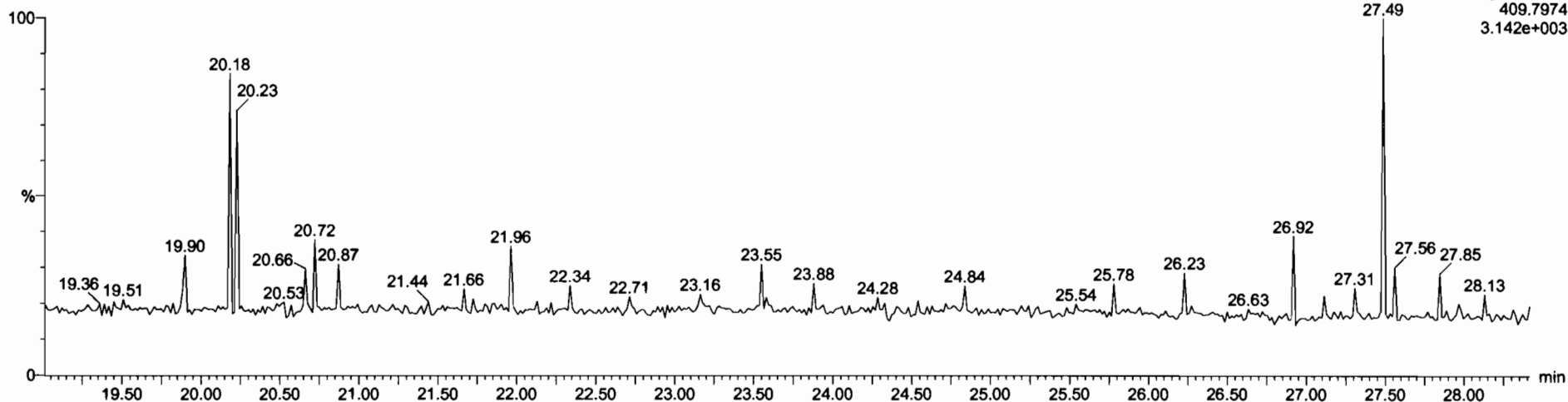


200604R2_13



DPE6

200604R2_13



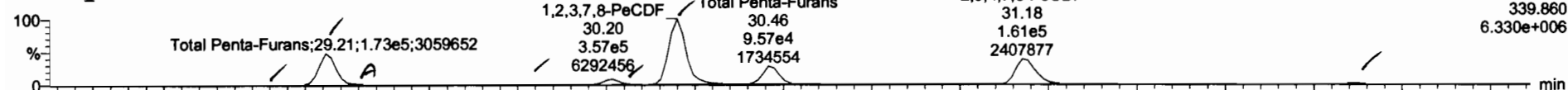
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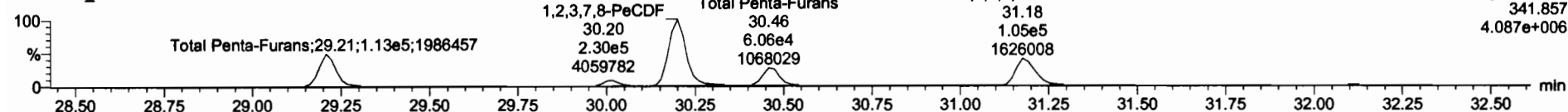
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1,2,3,7,8-PeCDF

200604R2_13



200604R2_13

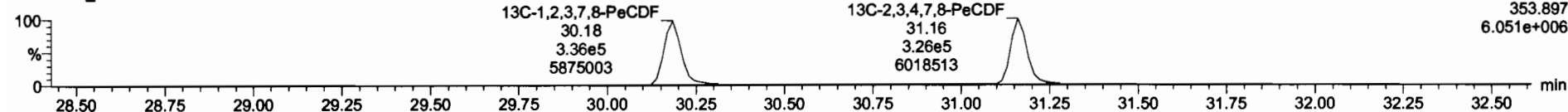


13C-1,2,3,7,8-PeCDF

200604R2_13

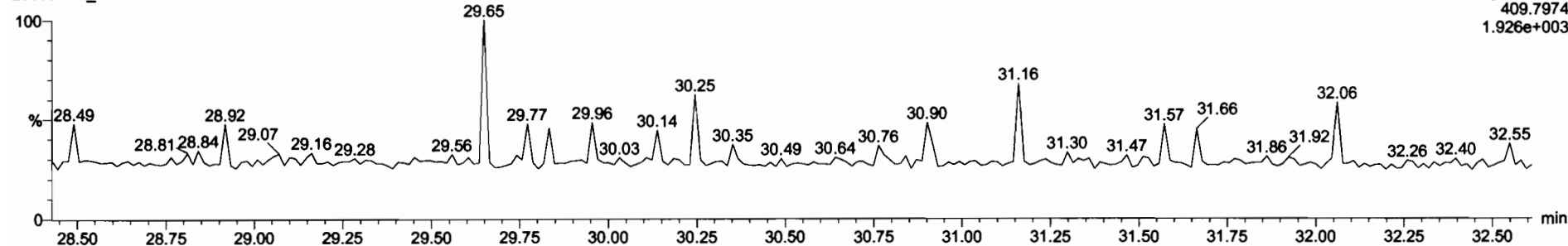


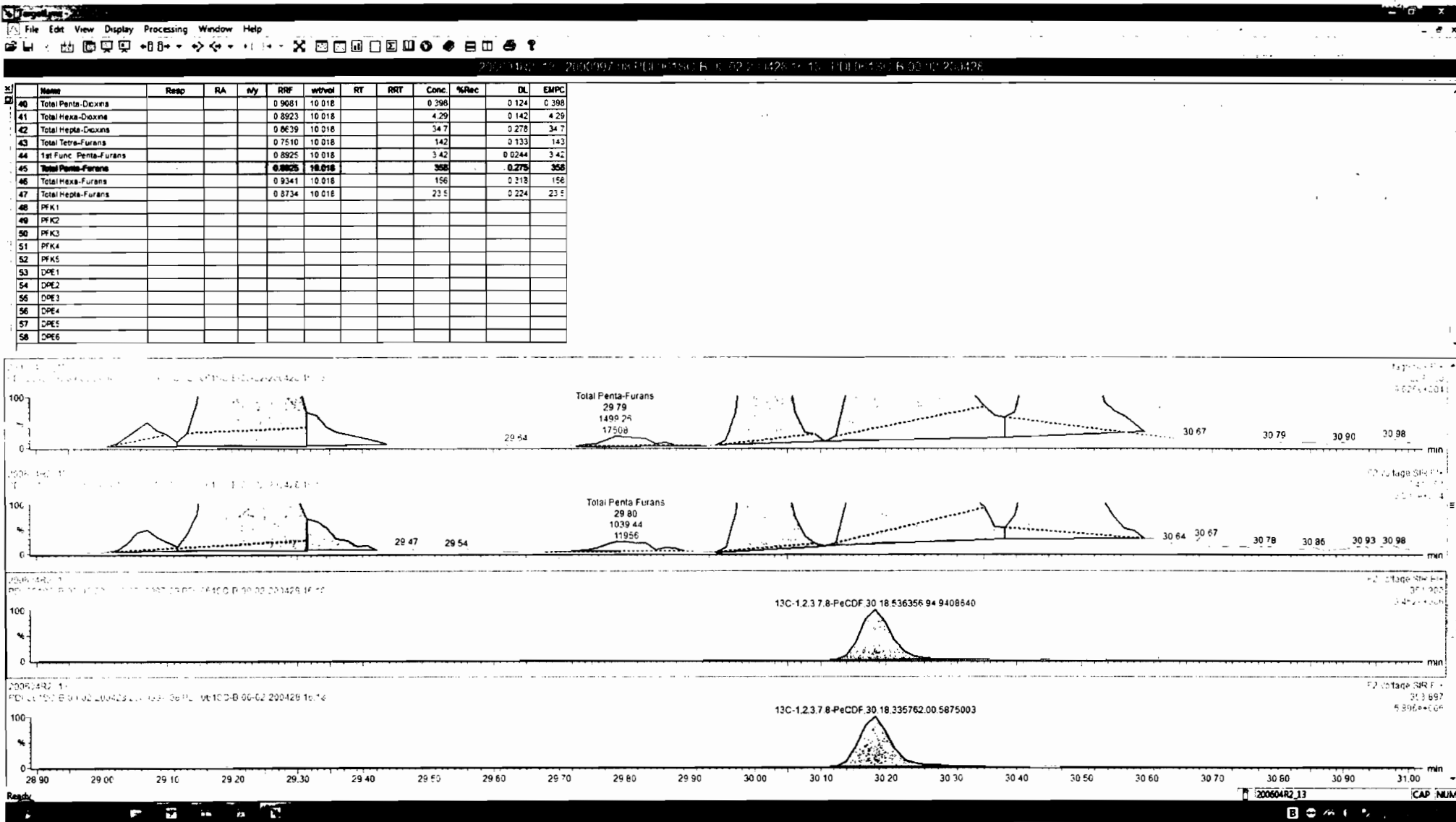
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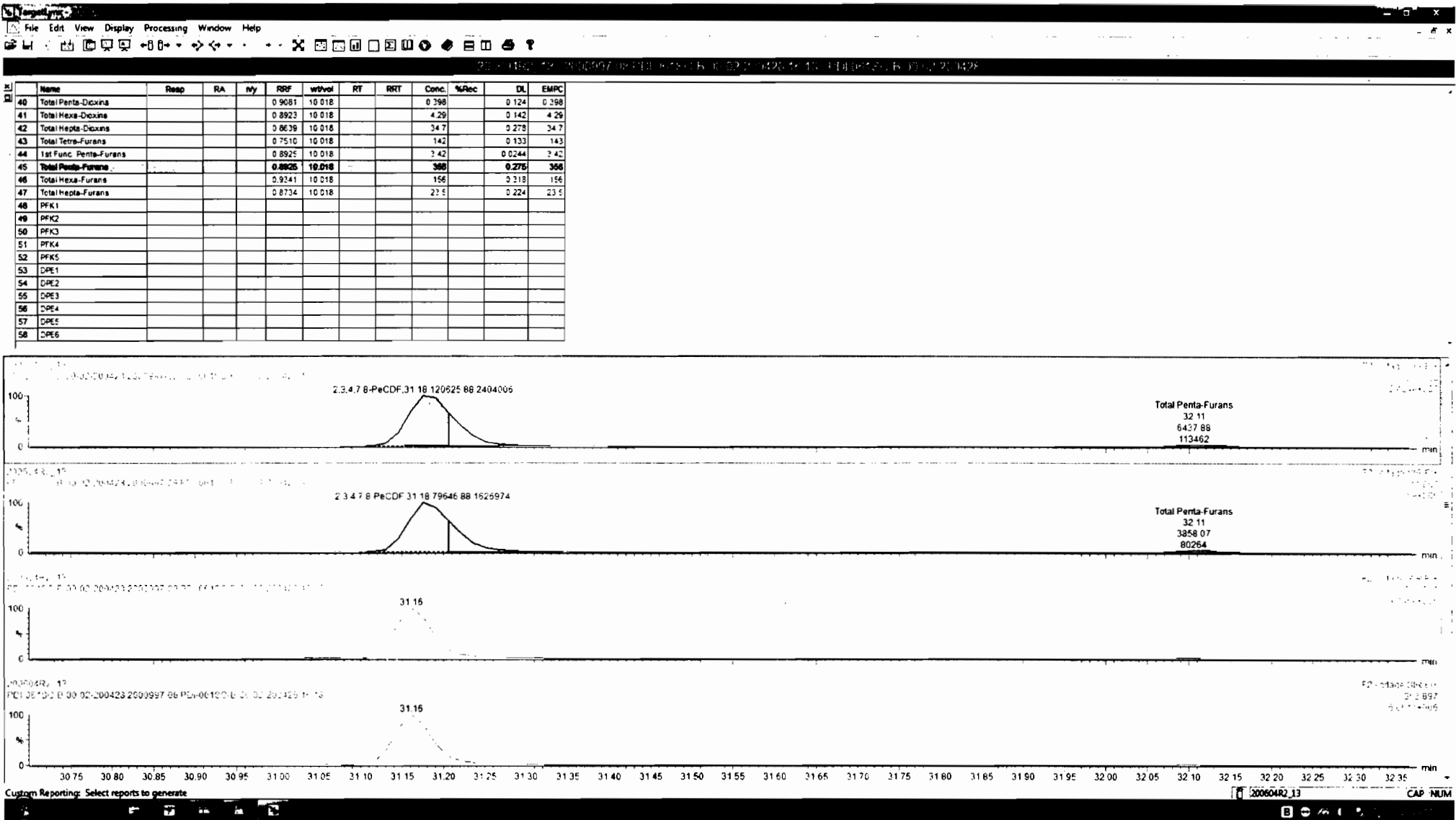
DPE2

200604R2_13





Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9081	10.018			0.398	0.124	0.398	
41 Total Hexa-Dioxins				0.8923	10.018			4.29	0.142	4.29	
42 Total Hepta-Dioxins				0.8639	10.018			34.7	0.278	34.7	
43 Total Tetra-Furans				0.7510	10.018			142	0.133	143	
44 1st Func Penta-Furans				0.8925	10.018			3.42	0.0244	3.42	
45 Total Penta-Furans				0.8925	10.018			358	0.275	358	
46 Total Hexa-Furans				0.9341	10.018			156	0.218	156	
47 Total Hepta-Furans				0.8734	10.018			23.5	0.224	23.5	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
56 DPE4											
57 DPE5											
58 DPE6											



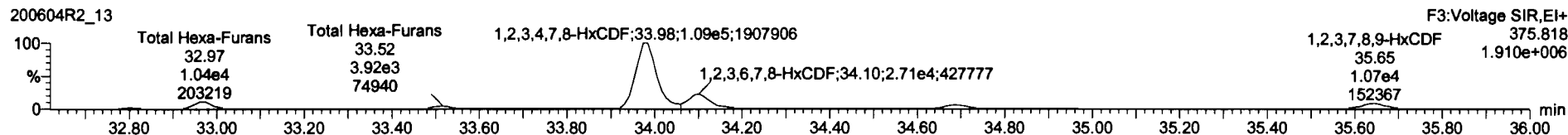
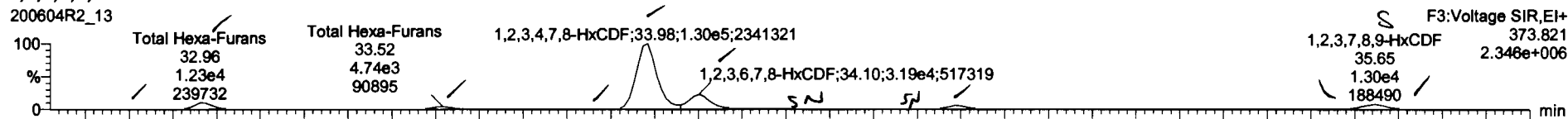
Name	Resp	RA	ny	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9081	10.018			0.398	0.124	0.398	
41 Total Hexa-Dioxins				0.8923	10.018			4.29	0.142	4.29	
42 Total Hepta-Dioxins				0.8639	10.018			34.7	0.278	34.7	
43 Total Tetra-Furans				0.7510	10.018			142	0.133	143	
44 1st Func. Penta-Furans				0.8925	10.018			3.42	0.0244	3.42	
45 Total Penta-Furans				0.8825	10.018			360	0.275	360	
46 Total Hexa-Furans				0.9341	10.018			156	0.218	156	
47 Total Hepta-Furans				0.8734	10.018			27.5	0.224	23.5	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											

Dataset: Untitled

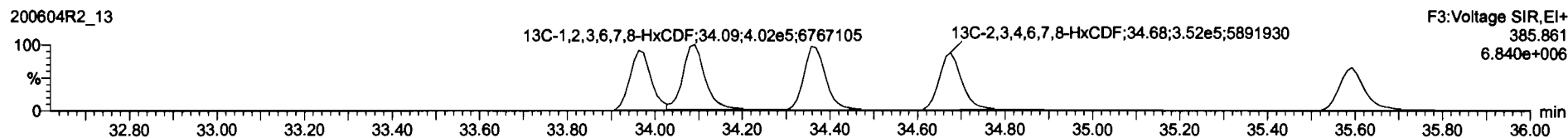
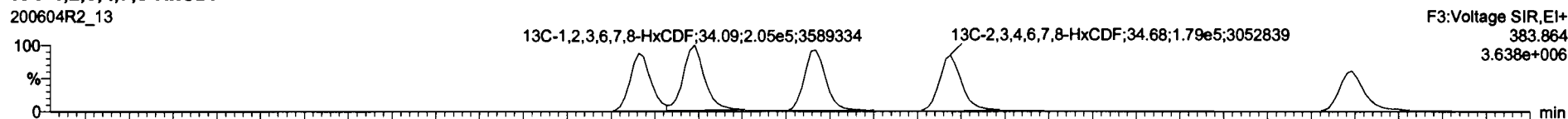
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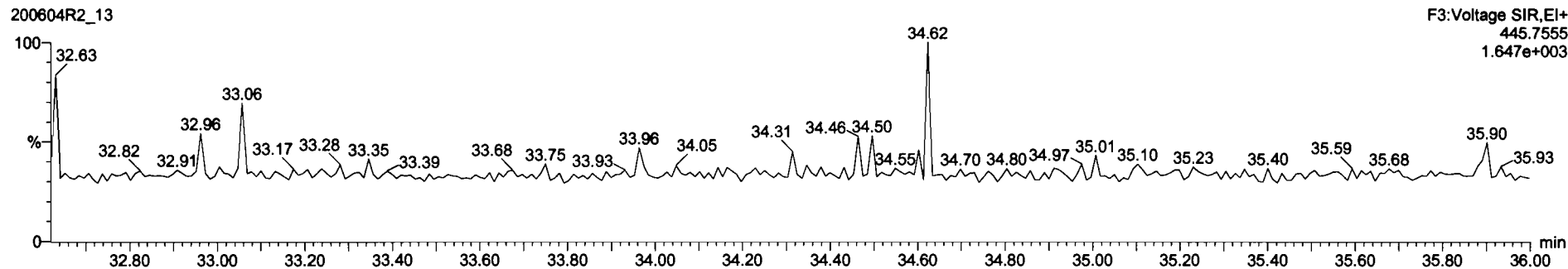
1,2,3,4,7,8-HxCDF

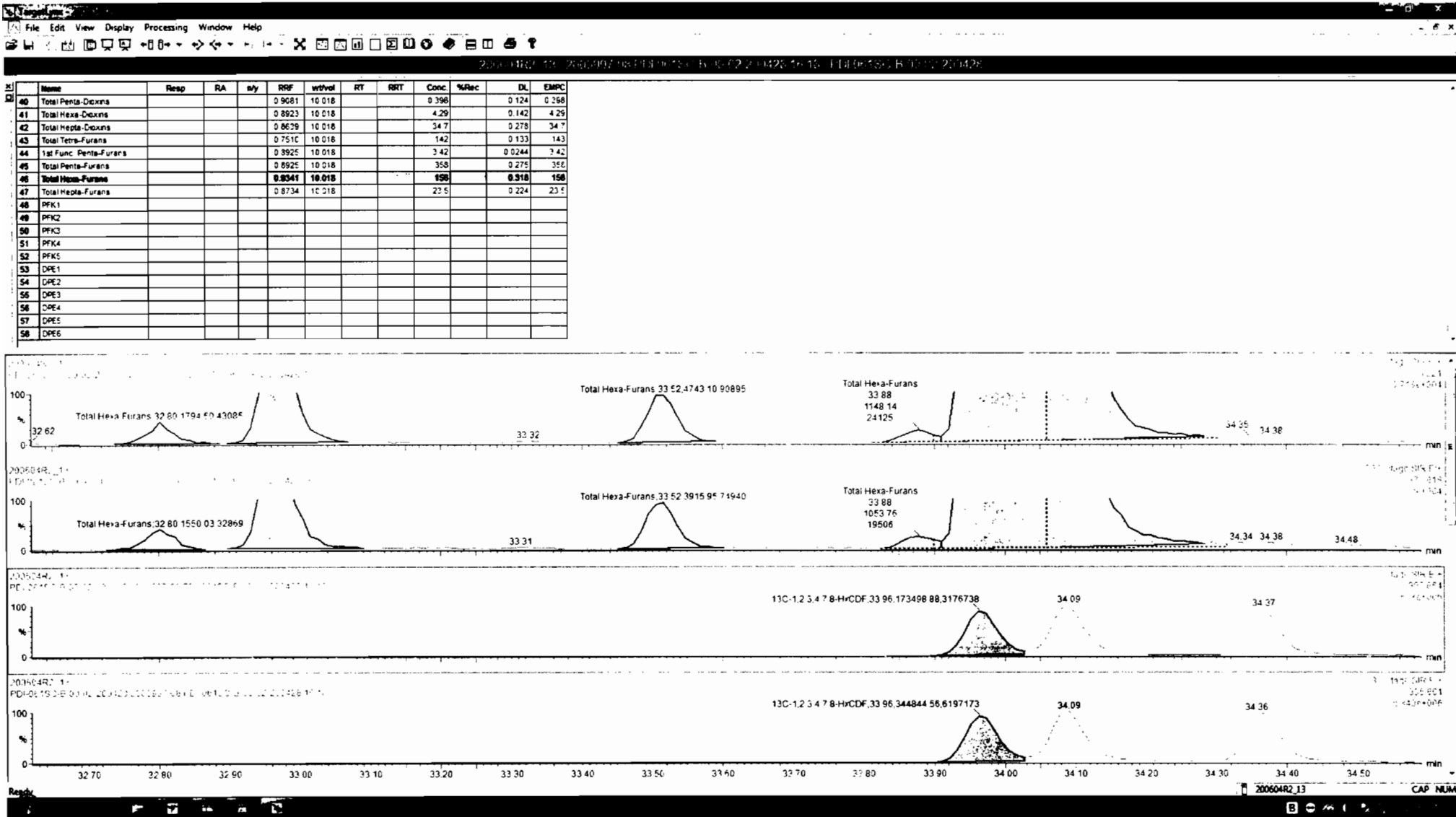


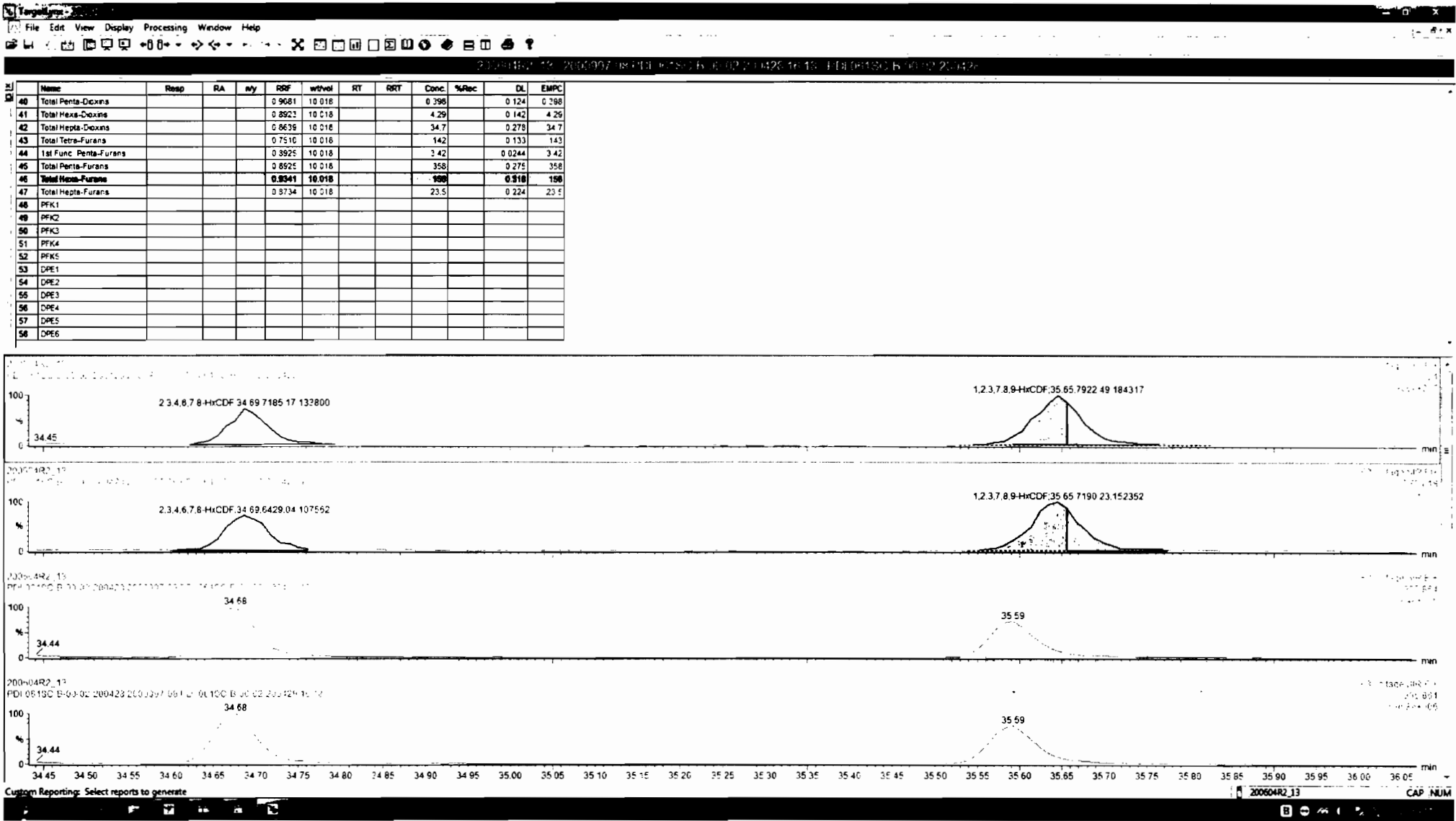
13C-1,2,3,4,7,8-HxCDF



DPE3







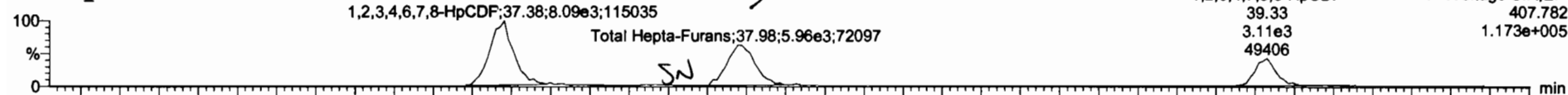
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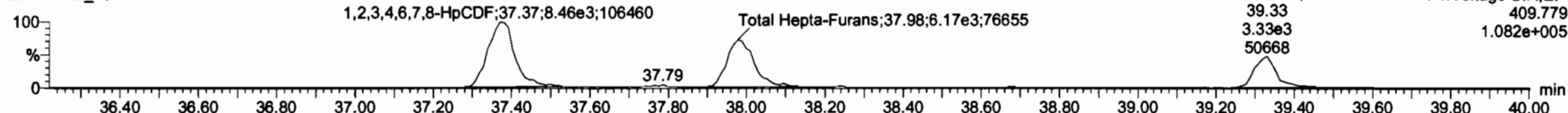
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1,2,3,4,6,7,8-HpCDF

200604R2_13



200604R2_13

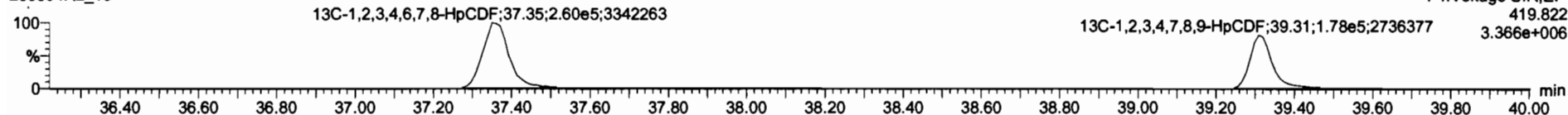


13C-1,2,3,4,6,7,8-HpCDF

200604R2_13

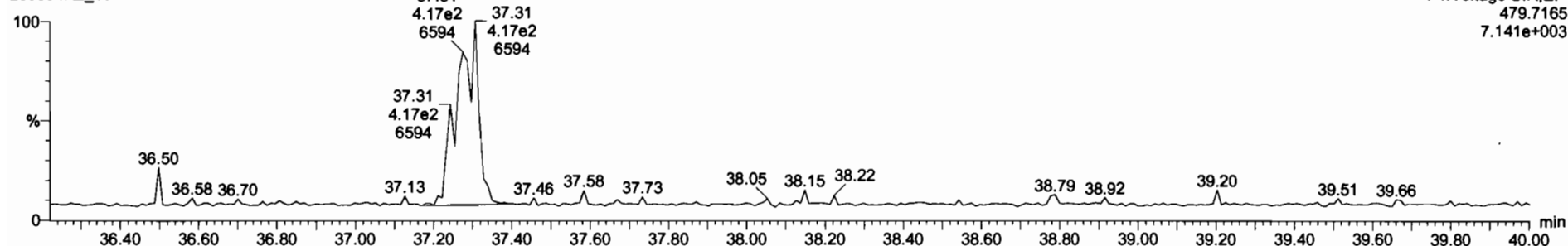


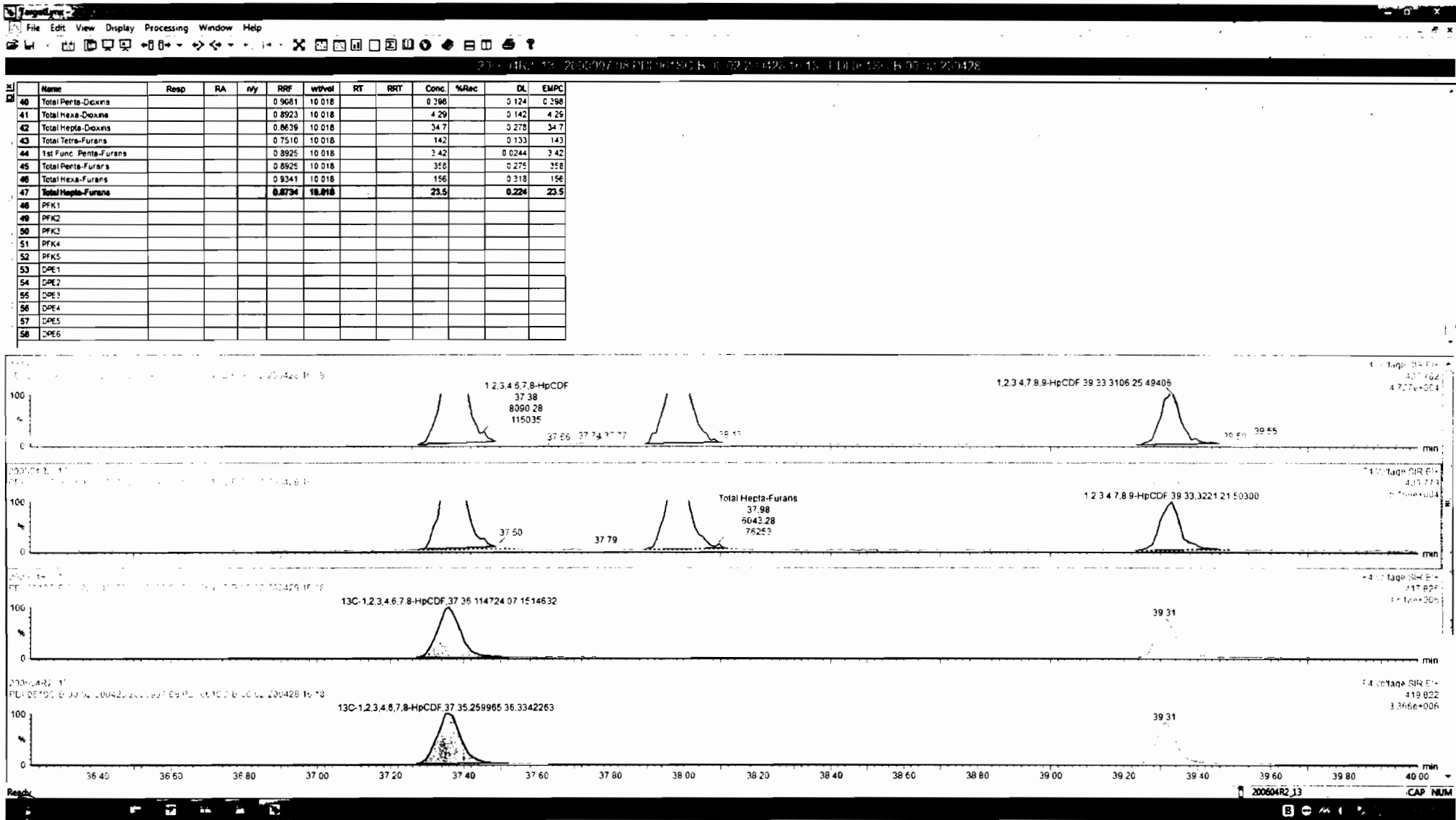
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DPE4

200604R2_13

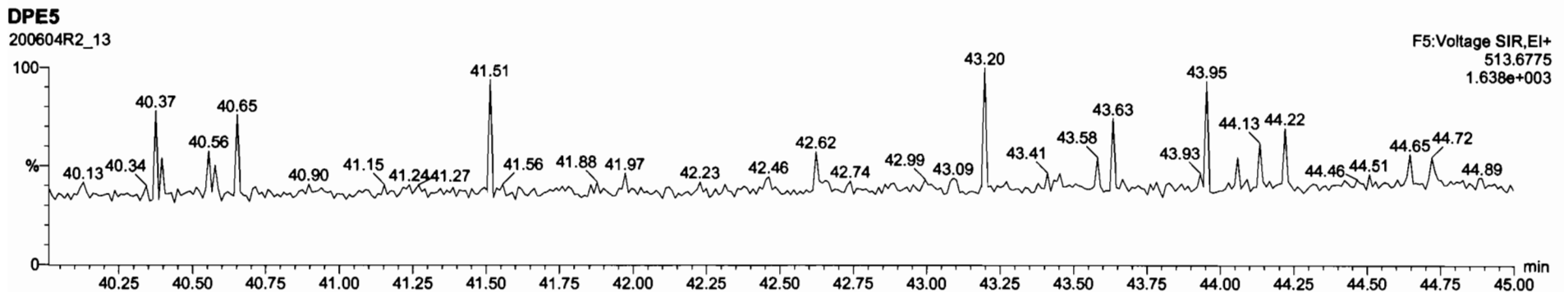
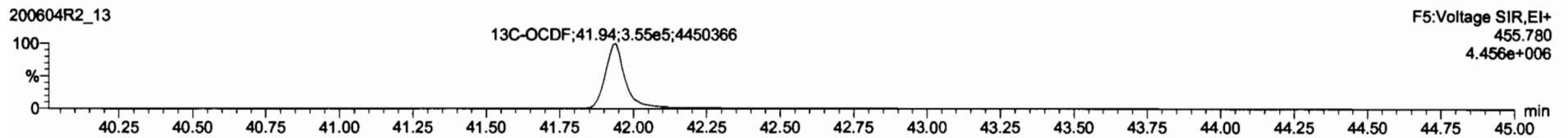
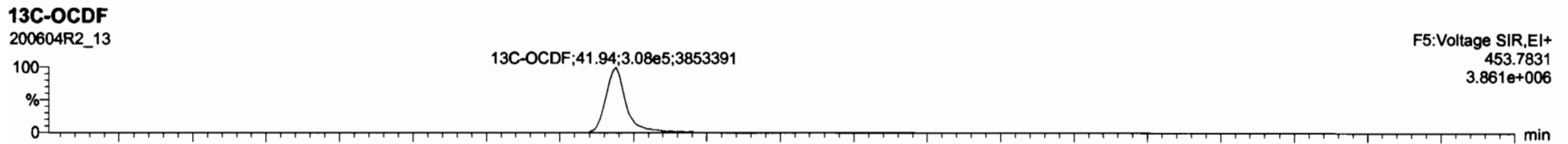
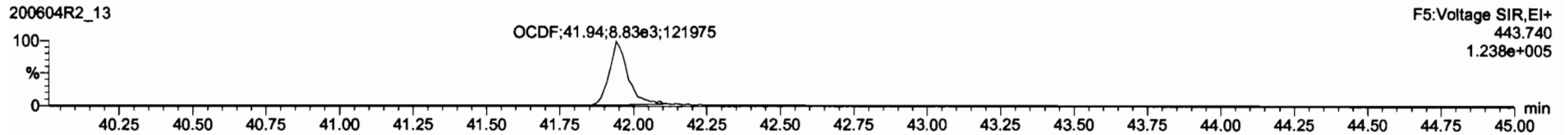
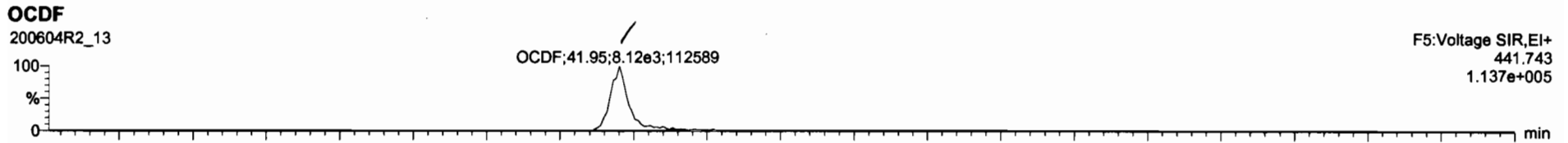


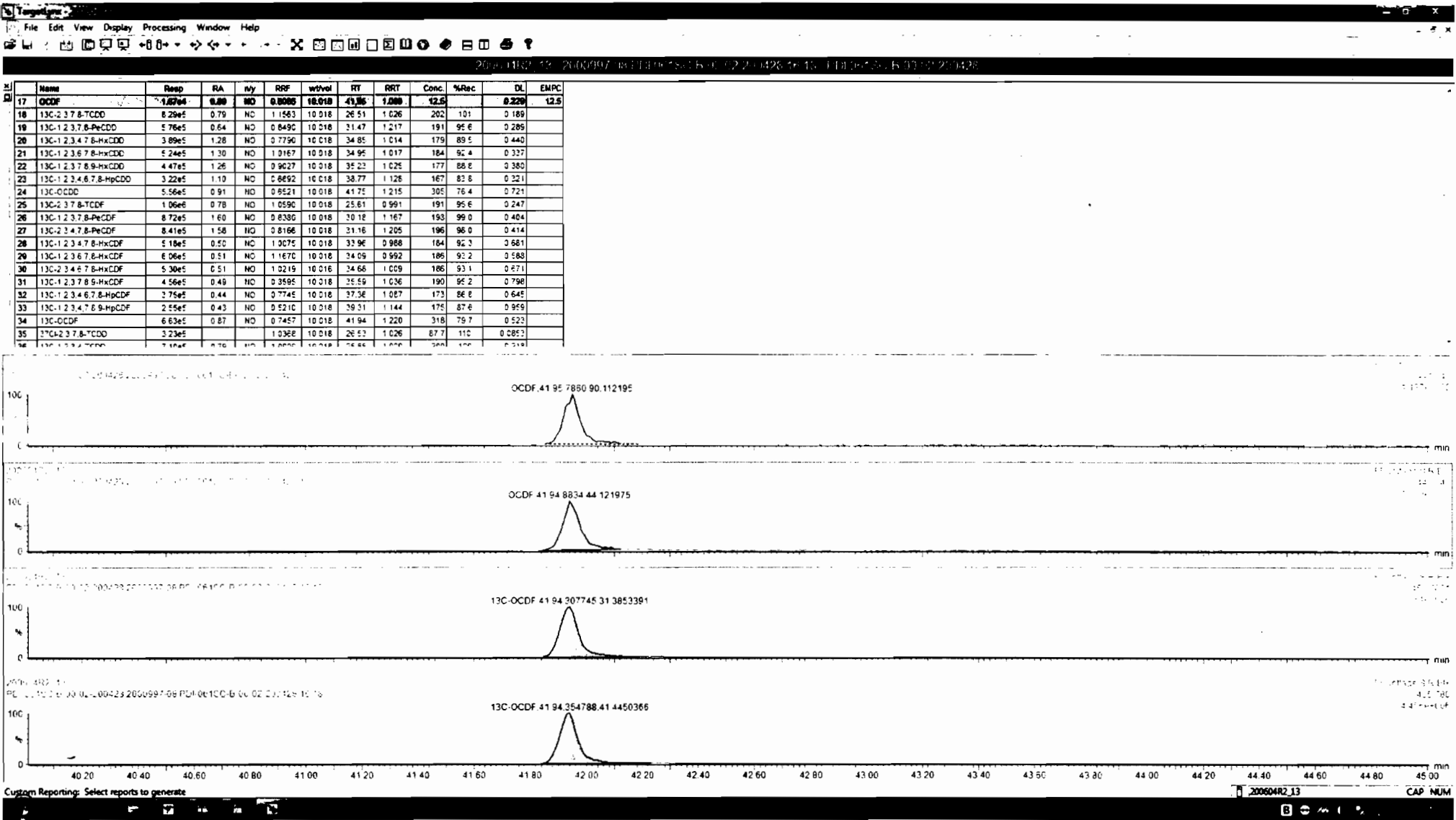


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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_13, Date: 05-Jun-2020, Time: 05:14:35, ID: 2000997-08 PDI-061SC-B-00-02-200428 16.18, Description: PDI-061SC-B-00-02-200428





Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
17 OCDF	1.67e4	0.80	NO	0.8005	18.018	41.95	1.000	12.5		0.220	12.5
18 13C-2 3 7 8-TCDD	8.29e4	0.79	NO	1.1563	10.518	26.51	1.026	202	101	0.189	
19 13C-1 2 3 7 8-PnCDD	5.76e4	0.64	NO	0.8490	10.518	31.47	1.217	191	96.6	0.285	
20 13C-1 2 3 4 7 8-HxCDD	3.89e4	1.28	NO	0.7790	10.518	34.85	1.014	179	89.5	0.440	
21 13C-1 2 3 6 7 8-HxCDD	5.24e4	1.30	NO	1.0167	10.518	34.95	1.017	164	92.4	0.327	
22 13C-1 2 3 7 8 9-HxCDD	4.47e4	1.26	NO	0.9627	10.518	35.23	1.025	177	88.8	0.380	
23 13C-1 2 3 4 6 7 8-HpCDD	3.22e4	1.10	NO	0.6692	10.518	38.77	1.128	167	83.8	0.321	
24 13C-OCDD	5.56e4	0.91	NO	0.8521	10.518	41.75	1.215	305	76.4	0.721	
25 13C-2 3 7 8-TCDF	1.06e6	0.78	NO	1.0590	10.518	25.61	0.991	191	95.6	0.247	
26 13C-1 2 3 7 8-PeCDF	8.72e4	1.60	NO	0.8380	10.518	30.18	1.167	193	99.0	0.404	
27 13C-2 3 4 7 8-PeCDF	8.41e4	1.58	NO	0.8166	10.518	31.16	1.205	196	96.0	0.414	
28 13C-1 2 3 4 7 8-HxCDF	5.18e4	0.50	NO	1.0075	10.518	33.96	0.988	184	92.3	0.581	
29 13C-1 2 3 6 7 8-HxCDF	6.06e4	0.51	NO	1.1670	10.518	34.09	0.992	186	92.2	0.588	
30 13C-2 3 4 7 8-HxCDF	5.30e4	0.51	NO	1.0219	10.518	34.68	1.009	186	93.1	0.671	
31 13C-1 2 3 7 8 9-HxCDF	4.56e4	0.49	NO	0.9595	10.518	35.59	1.036	190	95.2	0.798	
32 13C-1 2 3 4 6 7 8-HpCDF	3.75e4	0.44	NO	0.7745	10.518	37.38	1.087	173	86.8	0.645	
33 13C-1 2 3 4 7 8 9-HpCDF	2.55e4	0.43	NO	0.5210	10.518	39.31	1.144	175	87.6	0.959	
34 13C-OCDF	6.63e4	0.87	NO	0.7457	10.518	41.94	1.220	318	79.7	0.523	
35 17Cl-2 3 7 8-TCDD	3.23e4			1.0368	10.518	26.63	1.026	87.7	110	0.0853	
36 13C-1 2 3 7 8-TCDD	7.15e4			1.0000	10.518	26.63	1.000	300	100	0.338	

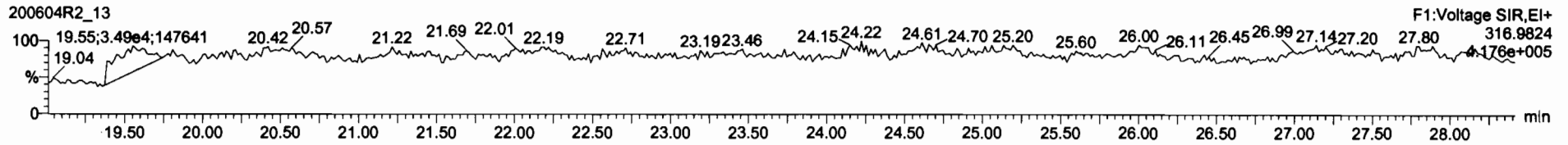
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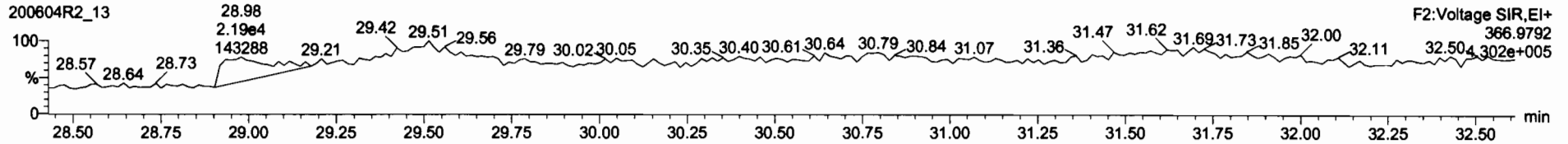
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Name: 200604R2_13, Date: 05-Jun-2020, Time: 05:14:35, ID: 2000997-08 PDI-061SC-B-00-02-200428 16.18, Description: PDI-061SC-B-00-02-200428

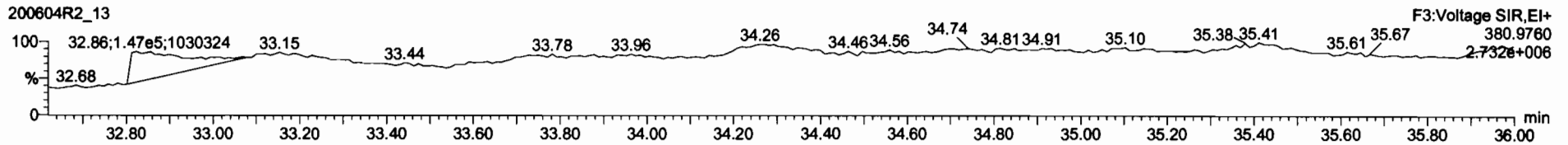
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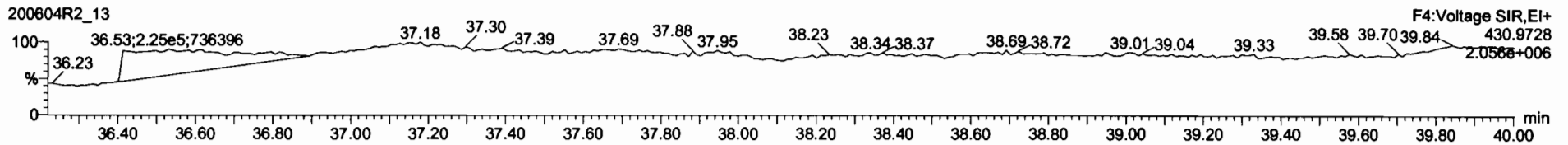
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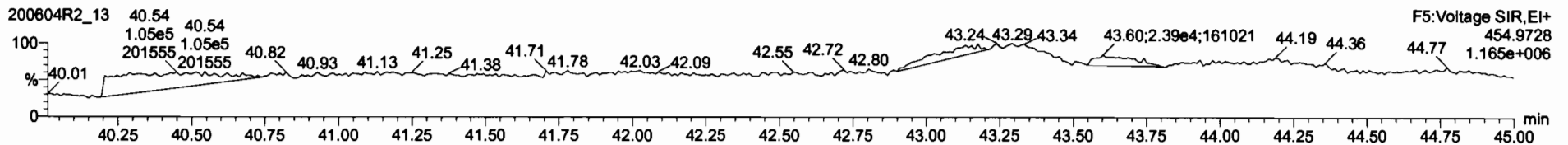
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200604R2\200604R2-14.qld

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Printed: Friday, June 05, 2020 12:09:19 Pacific Daylight Time

GRB 6/5/2020

Cr 7/10/2020

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Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R2_14, Date: 05-Jun-2020, Time: 06:00:48, ID: 2000997-09 PDI-061SC-B-02-04-200428 15.59, Description: PDI-061SC-B-02-04-200428

#	Name	Relp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc	Units	DL	SLP
1	2,3,7,8-TCDD			NO	0.888	10.041	26.546		1.001				0.0671	
2	1,2,3,7,8-PeCDD			NO	0.908	10.041	31.488		1.001				0.0757	
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.041	34.857		1.000				0.109	
4	1,2,3,6,7,8-HxCDD			NO	0.892	10.041	34.953		1.000				0.112	
5	1,2,3,7,8,9-HxCDD			NO	0.887	10.041	35.241		1.000				0.140	
6	1,2,3,4,6,7,8-HpCDD	1.54e3	0.97	NO	0.864	10.041	38.789	38.80	1.000	1.001	1.1600		0.198	1.16
7	OCDD	8.34e3	0.88	NO	0.914	10.041	41.749	41.77	1.000	1.000	6.7614		0.241	6.76
8	2,3,7,8-TCDF			NO	0.751	10.041	25.641		1.001				0.0456	
9	1,2,3,7,8-PeCDF			NO	0.893	10.041	30.205		1.001				0.153	
10	2,3,4,7,8-PeCDF			NO	0.935	10.041	31.192		1.001				0.136	
11	1,2,3,4,7,8-HxCDF			NO	0.884	10.041	33.963		1.000				0.0756	
12	1,2,3,6,7,8-HxCDF			NO	0.889	10.041	34.100		1.000				0.0702	
13	2,3,4,6,7,8-HxCDF			NO	0.934	10.041	34.711		1.001				0.0764	
14	1,2,3,7,8,9-HxCDF			NO	0.871	10.041	35.592		1.000				0.117	
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	10.041	37.397		1.001				0.0979	
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.041	39.320		1.000				0.134	
17	OCDF			NO	0.806	10.041	41.951		1.000				0.0789	
18	13C-2,3,7,8-TCDD	7.33e5	0.78	NO	1.16	10.041	26.538	26.51	1.026	1.025	171.97	86.3	0.236	
19	13C-1,2,3,7,8-PeCDD	5.26e5	0.64	NO	0.849	10.041	31.729	31.47	1.227	1.217	168.18	84.4	0.315	
20	13C-1,2,3,4,7,8-HxCDD	3.69e5	1.28	NO	0.779	10.041	34.852	34.85	1.014	1.014	158.38	79.5	0.512	
21	13C-1,2,3,6,7,8-HxCDD	4.48e5	1.26	NO	1.02	10.041	34.965	34.95	1.017	1.017	147.60	74.1	0.392	
22	13C-1,2,3,7,8,9-HxCDD	3.99e5	1.23	NO	0.903	10.041	35.236	35.23	1.025	1.025	148.05	74.3	0.442	
23	13C-1,2,3,4,6,7,8-HpCDD	3.06e5	1.09	NO	0.689	10.041	38.763	38.78	1.128	1.128	148.46	74.5	0.324	
24	13C-OCDD	5.38e5	0.90	NO	0.652	10.041	41.787	41.75	1.216	1.215	275.96	69.3	0.573	
25	13C-2,3,7,8-TCDF	9.33e5	0.77	NO	1.06	10.041	25.578	25.61	0.989	0.991	160.99	80.8	0.232	
26	13C-1,2,3,7,8-PeCDF	7.76e5	1.60	NO	0.838	10.041	30.111	30.18	1.165	1.167	169.13	84.9	0.622	
27	13C-2,3,4,7,8-PeCDF	7.66e5	1.58	NO	0.817	10.041	31.065	31.16	1.202	1.205	171.27	86.0	0.638	
28	13C-1,2,3,4,7,8-HxCDF	5.05e5	0.50	NO	1.01	10.041	33.982	33.96	0.989	0.988	167.73	84.2	0.911	
29	13C-1,2,3,6,7,8-HxCDF	5.76e5	0.49	NO	1.17	10.041	34.106	34.09	0.992	0.992	165.23	83.0	0.787	
30	13C-2,3,4,6,7,8-HxCDF	4.96e5	0.51	NO	1.02	10.041	34.680	34.68	1.009	1.009	162.37	81.5	0.898	
31	13C-1,2,3,7,8,9-HxCDF	4.08e5	0.50	NO	0.860	10.041	35.580	35.59	1.035	1.036	158.88	79.8	1.07	

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Last Altered: Friday, June 05, 2020 12:08:10 Pacific Daylight Time

Printed: Friday, June 05, 2020 12:09:19 Pacific Daylight Time

Name: 200604R2_14, Date: 05-Jun-2020, Time: 06:00:48, ID: 2000997-09 PDI-061SC-B-02-04-200428 15.59, Description: PDI-061SC-B-02-04-200428

#	Name	Resp	RA	n/y	RRF	wt/vol	Prod	WT	RRF	RA	Conc	Conc	Conc
32	13C-1,2,3,4,6,7,8-HpCDF	4.42e5	0.42	NO	0.774	10.041	37.329	37.36	1.086	1.087	191.17	96.0	0.504
33	13C-1,2,3,4,7,8,9-HpCDF	2.35e5	0.41	NO	0.521	10.041	39.361	39.32	1.145	1.144	151.22	75.9	0.749
34	13C-OCDF	6.12e5	0.87	NO	0.746	10.041	41.959	41.95	1.221	1.221	274.47	68.9	0.500
35	37Cl-2,3,7,8-TCDD	3.05e5			1.04	10.041	26.569	26.53	1.028	1.026	79.807	100	0.0491
36	13C-1,2,3,4-TCDD	7.34e5	0.79	NO	1.00	10.041	25.890	25.85	1.000	1.000	199.18	100	0.273
37	13C-1,2,3,4-TCDF	1.09e6	0.80	NO	1.00	10.041	24.360	24.18	1.000	1.000	199.18	100	0.246
38	13C-1,2,3,4,6,9-HxCDF	5.95e5	0.51	NO	1.00	10.041	34.420	34.37	1.000	1.000	199.18	100	0.918
39	Total Tetra-Dioxins				0.888	10.041	24.620		0.000		0.26098		0.0671 0.261
40	Total Penta-Dioxins				0.908	10.041	29.960		0.000		0.23932		0.0252 0.239
41	Total Hexa-Dioxins				0.892	10.041	33.635		0.000		1.5349		0.125 1.53
42	Total Hepta-Dioxins				0.864	10.041	37.640		0.000		2.8378		0.198 2.84
43	Total Tetra-Furans				0.751	10.041	23.610		0.000		0.26947		0.0456 0.269
44	1st Func. Penta-Furans				0.893	10.041	27.580		0.000				0.0113
45	Total Penta-Furans				0.893	10.041	29.275		0.000				0.0362
46	Total Hexa-Furans				0.934	10.041	33.555		0.000				0.0492
47	Total Hepta-Furans				0.873	10.041	37.835		0.000				0.0420

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Name: 200604R2_14, Date: 05-Jun-2020, Time: 06:00:48, ID: 2000997-09 PDI-061SC-B-02-04-200428 15.59, Description: PDI-061SC-B-02-04-200428

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Tetra-Dioxins	24.34	4.975e3	9.208e3	3.704e2	4.826e2	0.77	NO	8.530e2	0.26098	0.26098	0.0671

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Penta-Dioxins	29.27	2.140e3	3.217e3	9.294e1	1.632e2	0.57	NO	2.561e2	0.10675	0.10675	0.0252
Total Penta-Dioxins	29.74	2.201e3	3.879e3	1.161e2	2.019e2	0.57	NO	3.181e2	0.13257	0.13257	0.0252

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hexa-Dioxins	33.35	1.793e4	1.280e4	8.707e2	6.658e2	1.31	NO	1.537e3	0.84591	0.84591	0.125
Total Hexa-Dioxins	33.92	4.590e3	4.746e3	2.485e2	2.092e2	1.19	NO	4.577e2	0.25195	0.25195	0.125
Total Hexa-Dioxins	34.18	5.480e3	5.252e3	4.330e2	3.608e2	1.20	NO	7.938e2	0.43703	0.43703	0.125

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hepta-Dioxins	37.79	1.373e4	1.589e4	1.054e3	1.171e3	0.90	NO	2.225e3	1.6778	1.6778	0.198
1,2,3,4,6,7,8-HpCDD	38.80	1.024e4	1.435e4	7.592e2	7.790e2	0.97	NO	1.538e3	1.1600	1.1600	0.198

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Tetra-Furans	21.51	5.302e3	5.830e3	3.909e2	5.575e2	0.70	NO	9.483e2	0.26947	0.26947	0.0456

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
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Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200604R2\200604R2-14.qld

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Printed: Friday, June 05, 2020 12:09:19 Pacific Daylight Time

Name: 200604R2_14, Date: 05-Jun-2020, Time: 06:00:48, ID: 2000997-09 PDI-061SC-B-02-04-200428 15.59, Description: PDI-061SC-B-02-04-200428

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Rel	Resp	Conc	EMPC	DL
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Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Rel	Resp	Conc	EMPC	DL
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Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Rel	Resp	Conc	EMPC	DL
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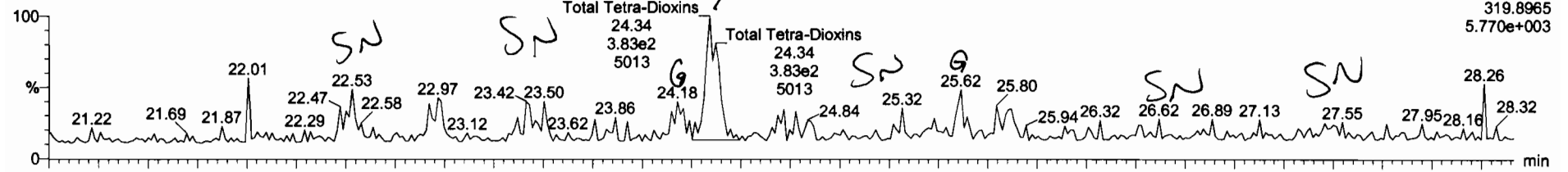
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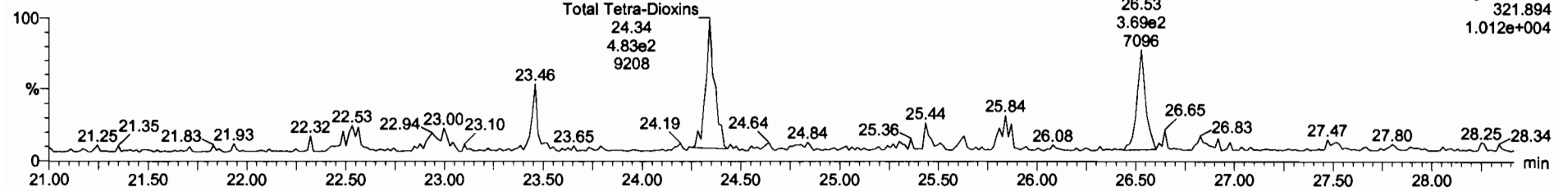
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2,3,7,8-TCDD

200604R2_14

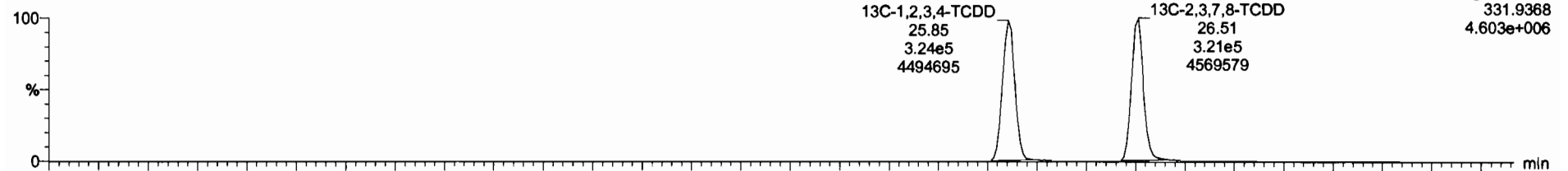


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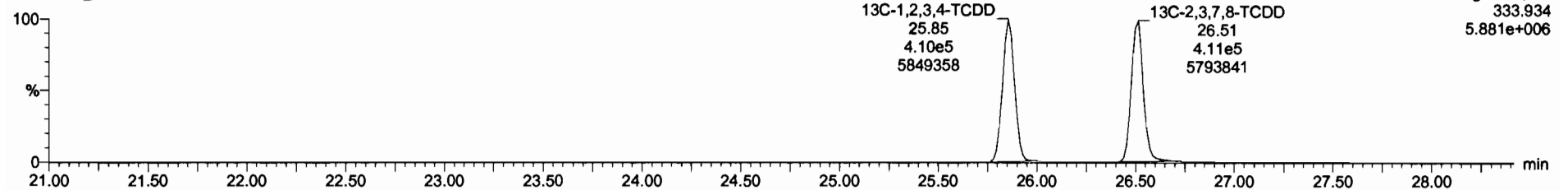


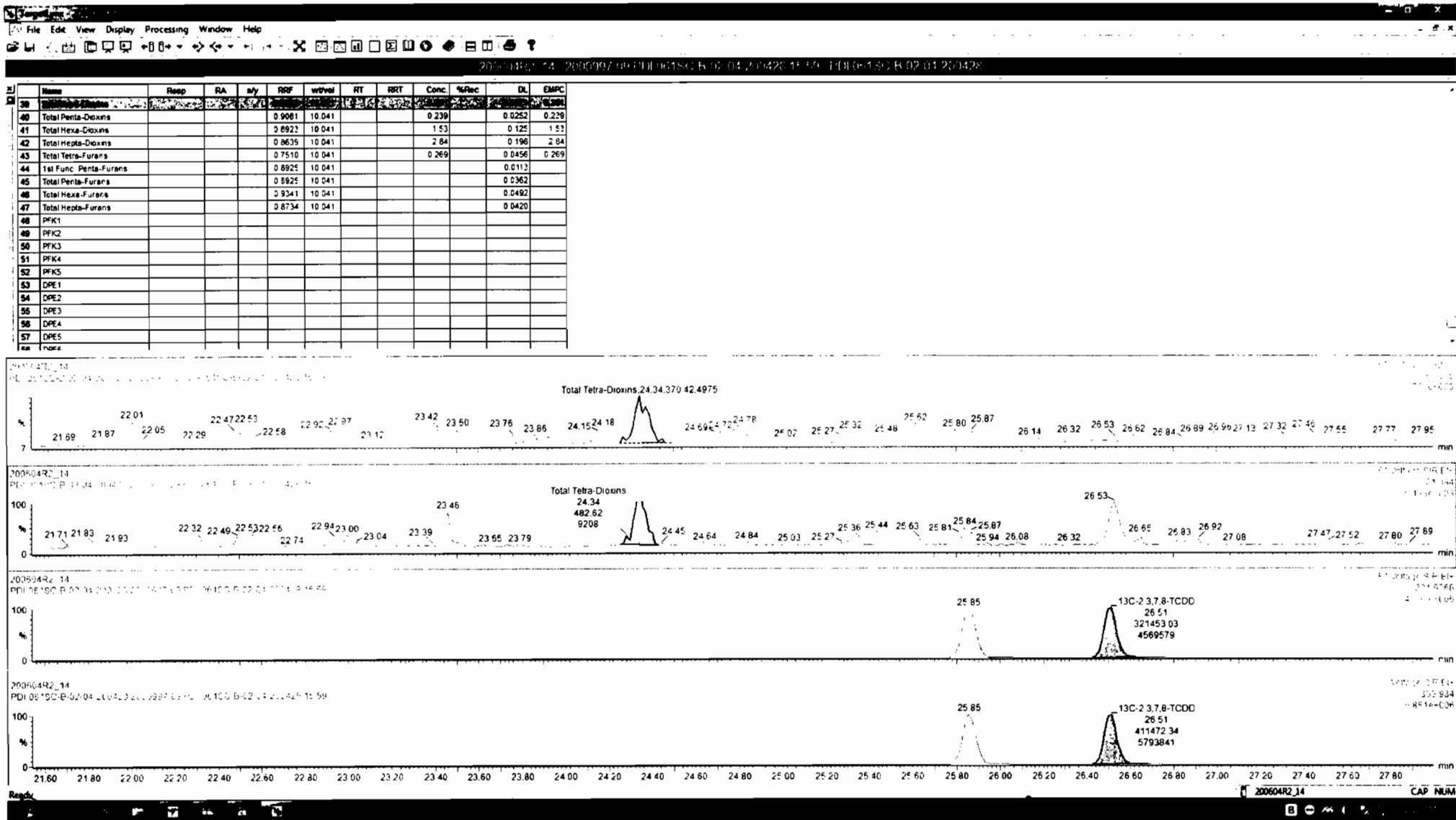
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200604R2_14



200604R2_14





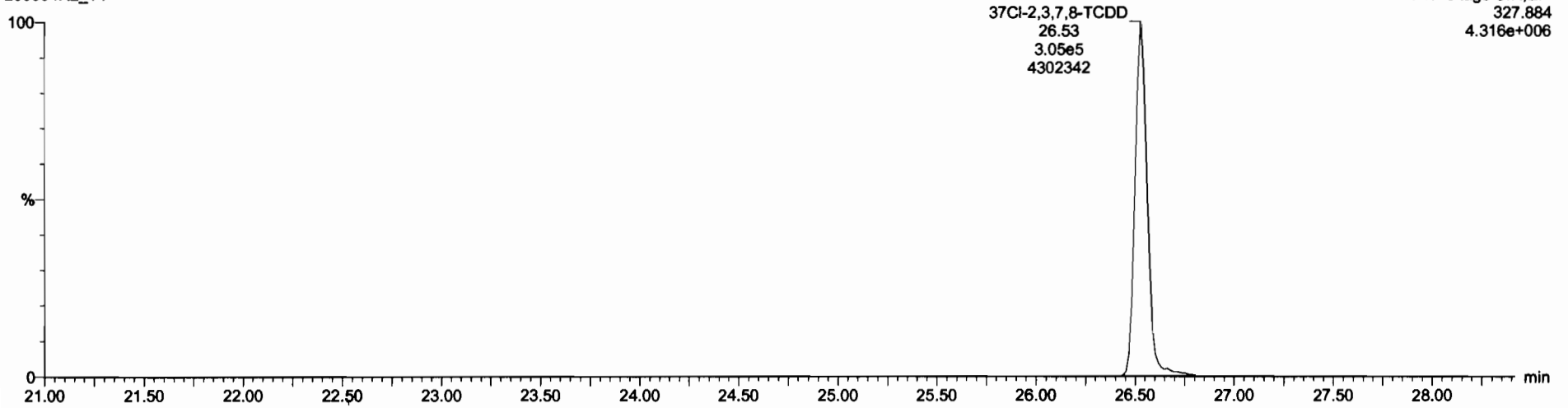
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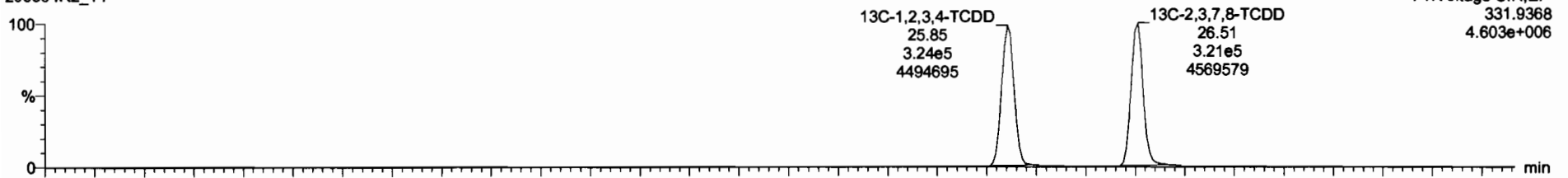
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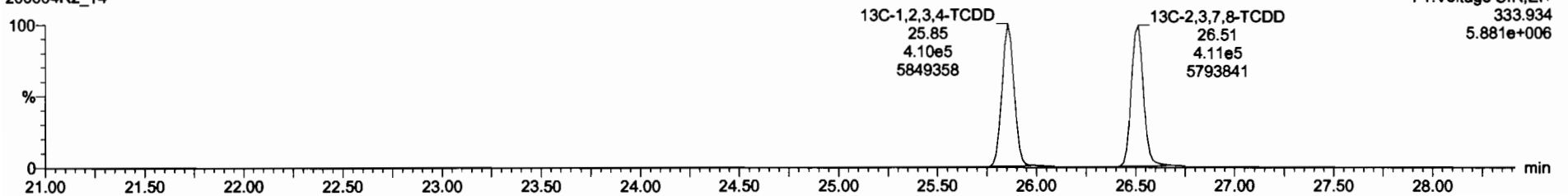


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200604R2_14



200604R2_14



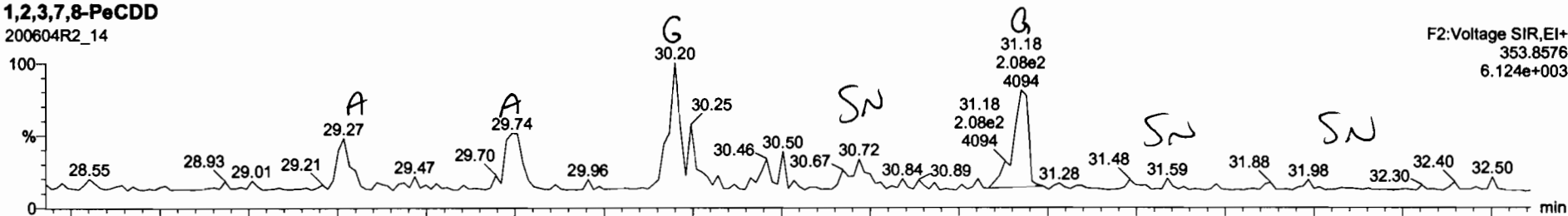
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Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_14, Date: 05-Jun-2020, Time: 06:00:48, ID: 2000997-09 PDI-061SC-B-02-04-200428 15.59, Description: PDI-061SC-B-02-04-200428

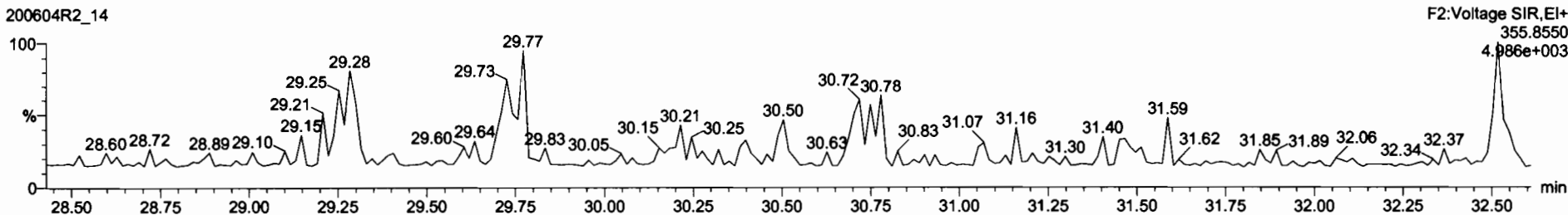
1,2,3,7,8-PeCDD

200604R2_14



F2:Voltage SIR,EI+
353.8576
6.124e+003

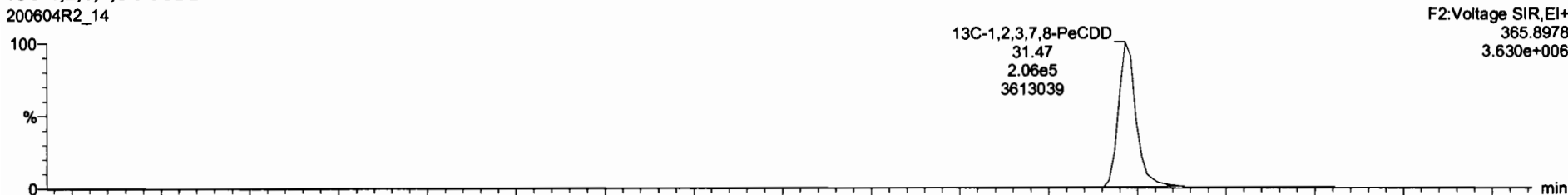
200604R2_14



F2:Voltage SIR,EI+
355.8550
4.086e+003

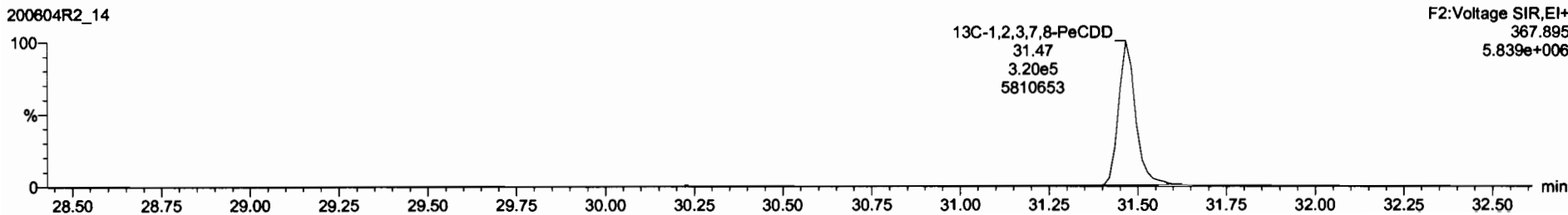
13C-1,2,3,7,8-PeCDD

200604R2_14

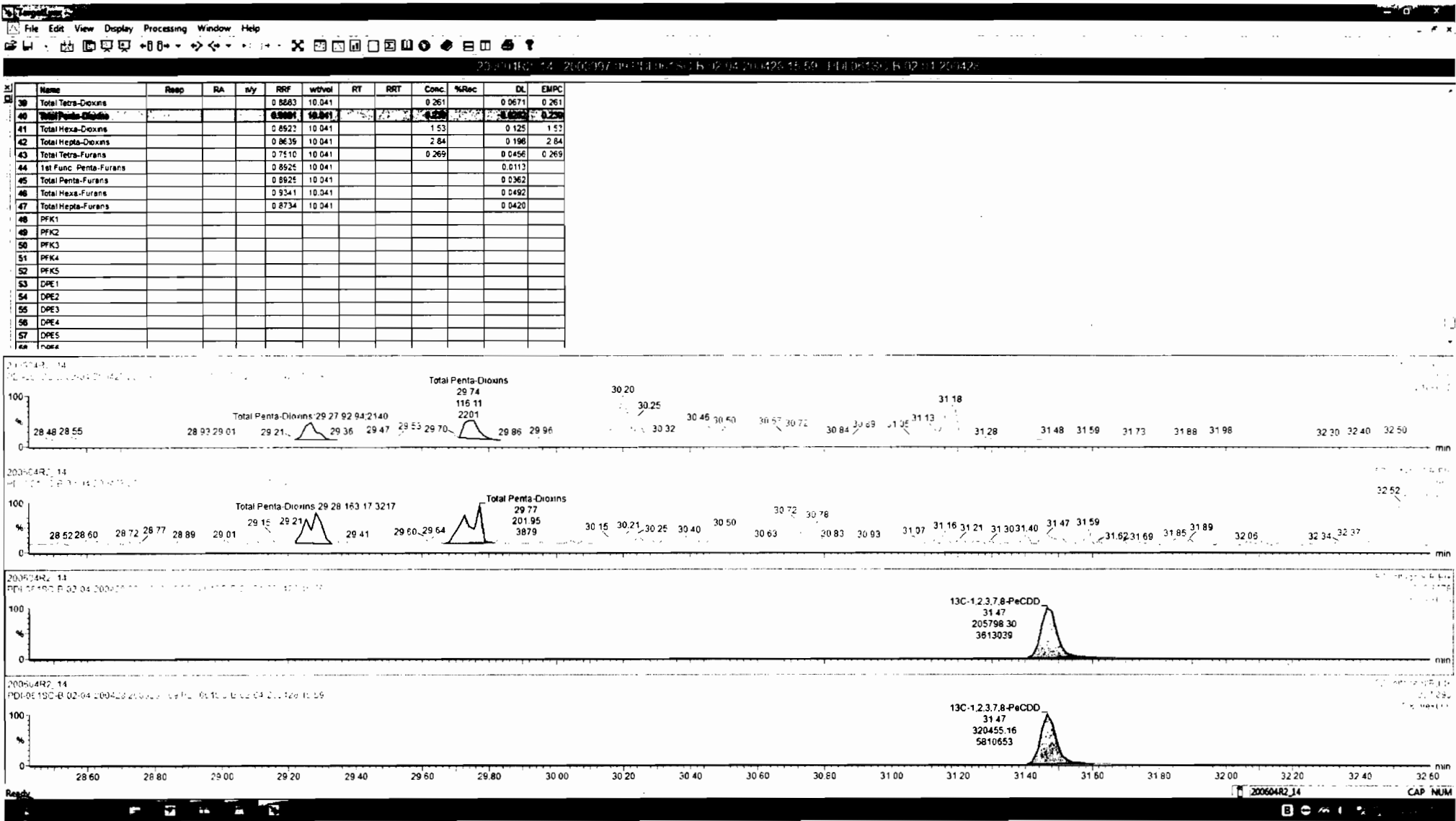


F2:Voltage SIR,EI+
365.8978
3.630e+006

200604R2_14



F2:Voltage SIR,EI+
367.895
5.839e+006



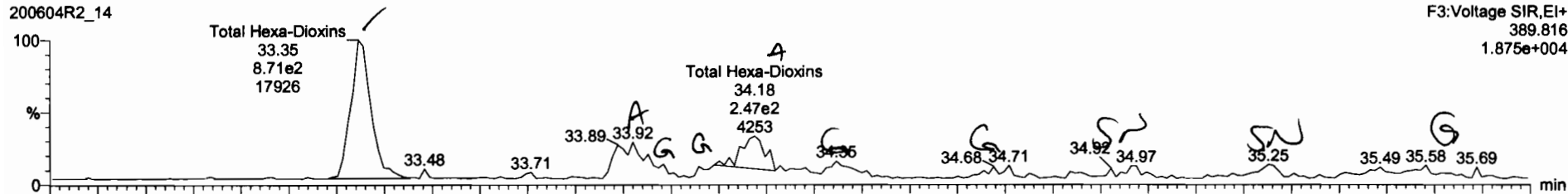
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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

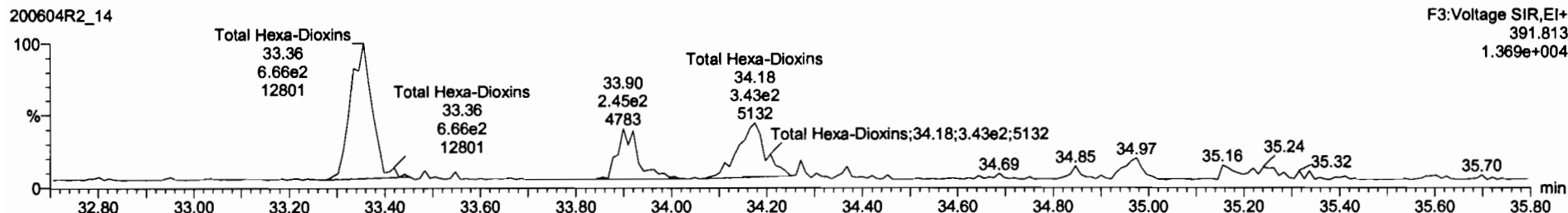
Name: 200604R2_14, Date: 05-Jun-2020, Time: 06:00:48, ID: 2000997-09 PDI-061SC-B-02-04-200428 15.59, Description: PDI-061SC-B-02-04-200428

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

200604R2_14



200604R2_14

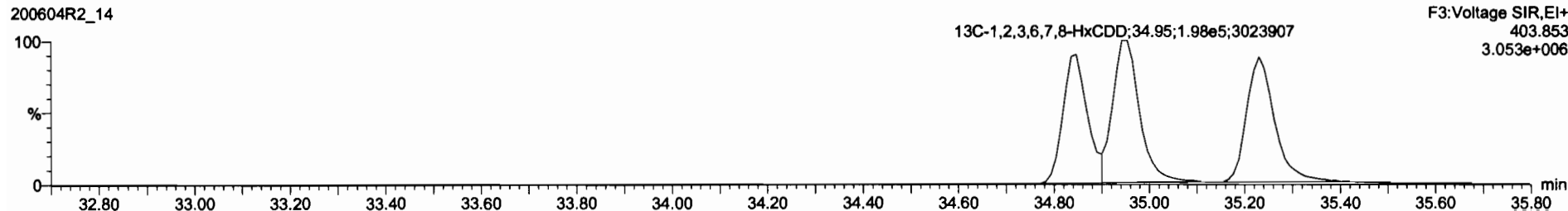


13C-1,2,3,4,7,8-HxCDD

200604R2_14



200604R2_14



20004R2_14 20060927 09:41:15

Name	Resp	RA	n/y	RRF	wf/wal	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.8683	10.041			0.261		0.0671	0.261
40 Total Penta-Dioxins				0.9081	10.041			0.239		0.0252	0.239
41 Total Hexa-Dioxins				0.8925	10.041			1.53		0.125	1.53
42 Total Hepta-Dioxins				0.8639	10.041			2.84		0.198	2.84
43 Total Tetra-Furans				0.7510	10.041			0.269		0.0456	0.269
44 1st Func. Penta-Furans				0.8925	10.041					0.0113	
45 Total Penta-Furans				0.8925	10.041					0.0362	
46 Total Hexa-Furans				0.9341	10.041					0.0492	
47 Total Hepta-Furans				0.8734	10.041					0.0420	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 PFK6											

33.04 33.48 33.64 33.71 33.79

Total Hexa-Dioxins
33.92
248.46
4590

Total Hexa-Dioxins
34.18
433.00
5480

34.68, 34.71, 34.84, 34.92, 34.97, 35.00, 35.18, 35.25, 35.30, 35.41, 35.49, 35.60, 35.69, 35.86, 35.94, 36.15 min

32.70 32.80 32.95

Total Hexa-Dioxins
33.35
665.82
12801

Total Hexa-Dioxins
33.90
209.20
4745

Total Hexa-Dioxins
34.18
360.82
5252

Total Hexa-Dioxins 34.18, 360.82, 5252

34.45 34.64 34.69 34.85 34.97 35.16 35.24 35.32 35.34 35.41 35.60 35.70 35.93 35.95 36.05 36.12 min

13C-1,2,3,4,7,8-HxCDD,34.85;207;186;33;3579;146 34.95 35.23

13C-1,2,3,4,7,8-HxCDD,34.85;161463;02;27370;34 34.95 35.23

200604R2_14

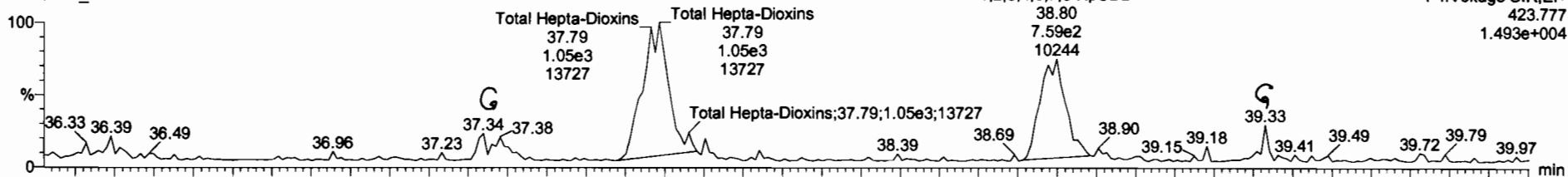
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Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

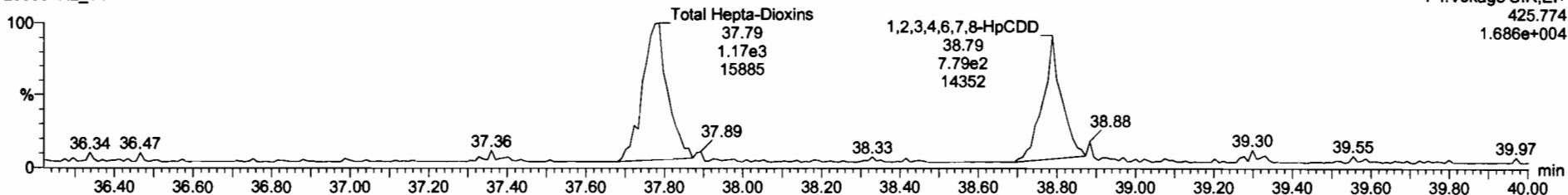
Name: 200604R2_14, Date: 05-Jun-2020, Time: 06:00:48, ID: 2000997-09 PDI-061SC-B-02-04-200428 15.59, Description: PDI-061SC-B-02-04-200428

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

200604R2_14

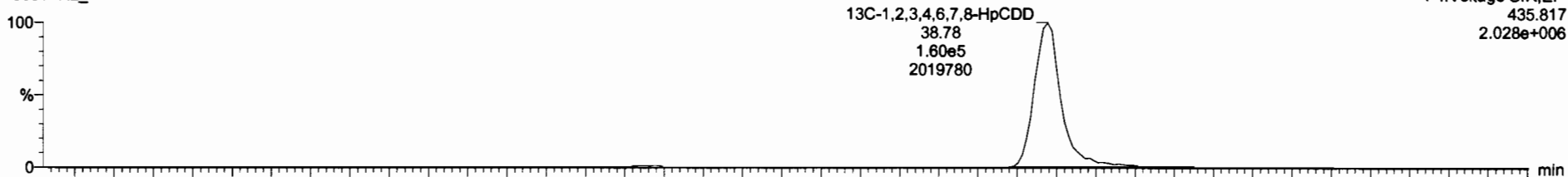


200604R2_14

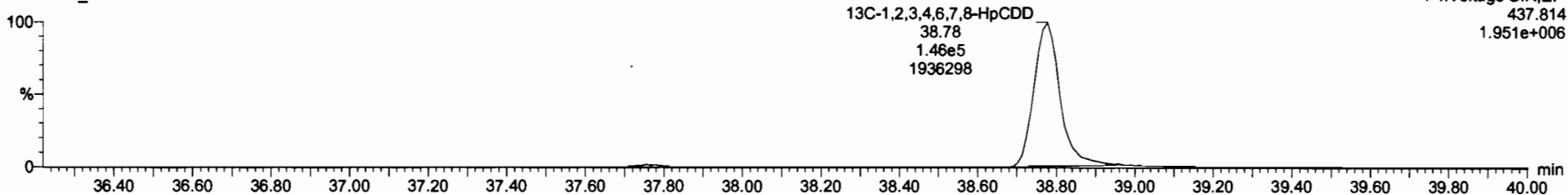


13C-1,2,3,4,6,7,8-HpCDD

200604R2_14



200604R2_14



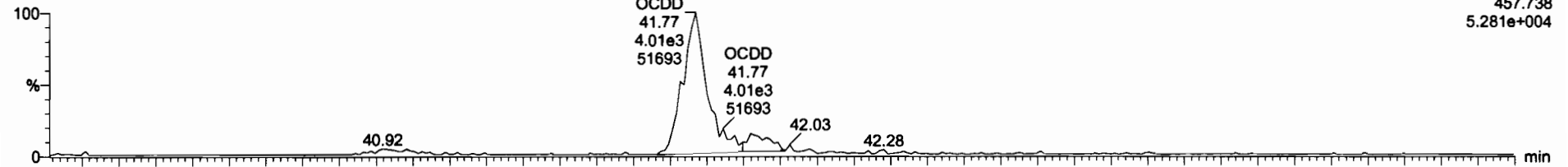
Dataset: Untitled

Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_14, Date: 05-Jun-2020, Time: 06:00:48, ID: 2000997-09 PDI-061SC-B-02-04-200428 15.59, Description: PDI-061SC-B-02-04-200428

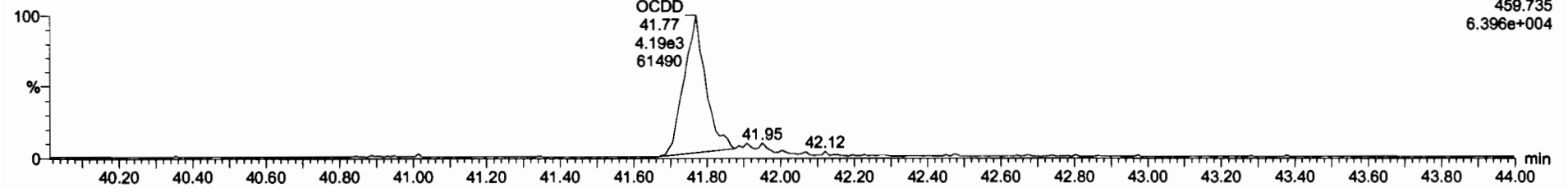
OCDD

200604R2_14



F5:Voltage SIR,EI+
457.738
5.281e+004

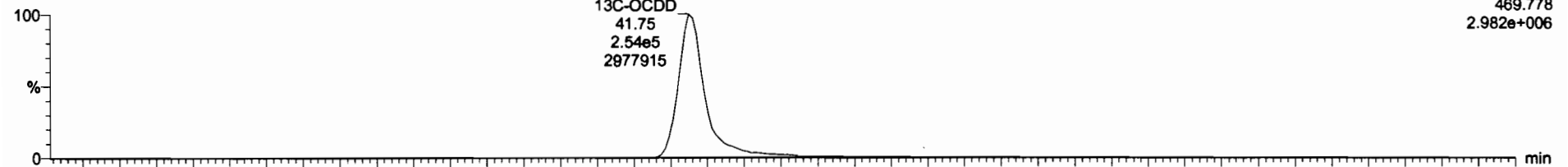
200604R2_14



F5:Voltage SIR,EI+
459.735
6.396e+004

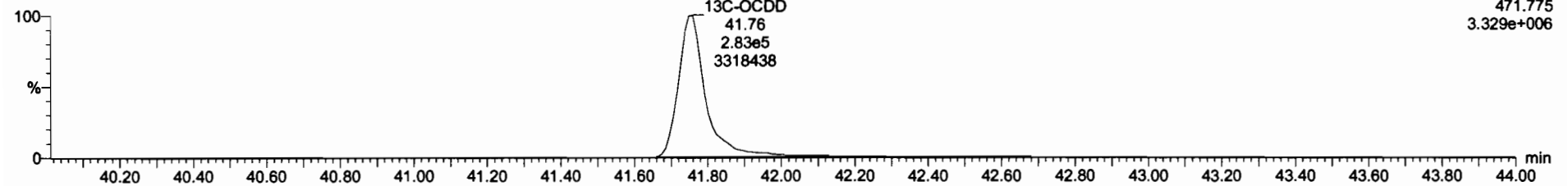
13C-OCDD

200604R2_14

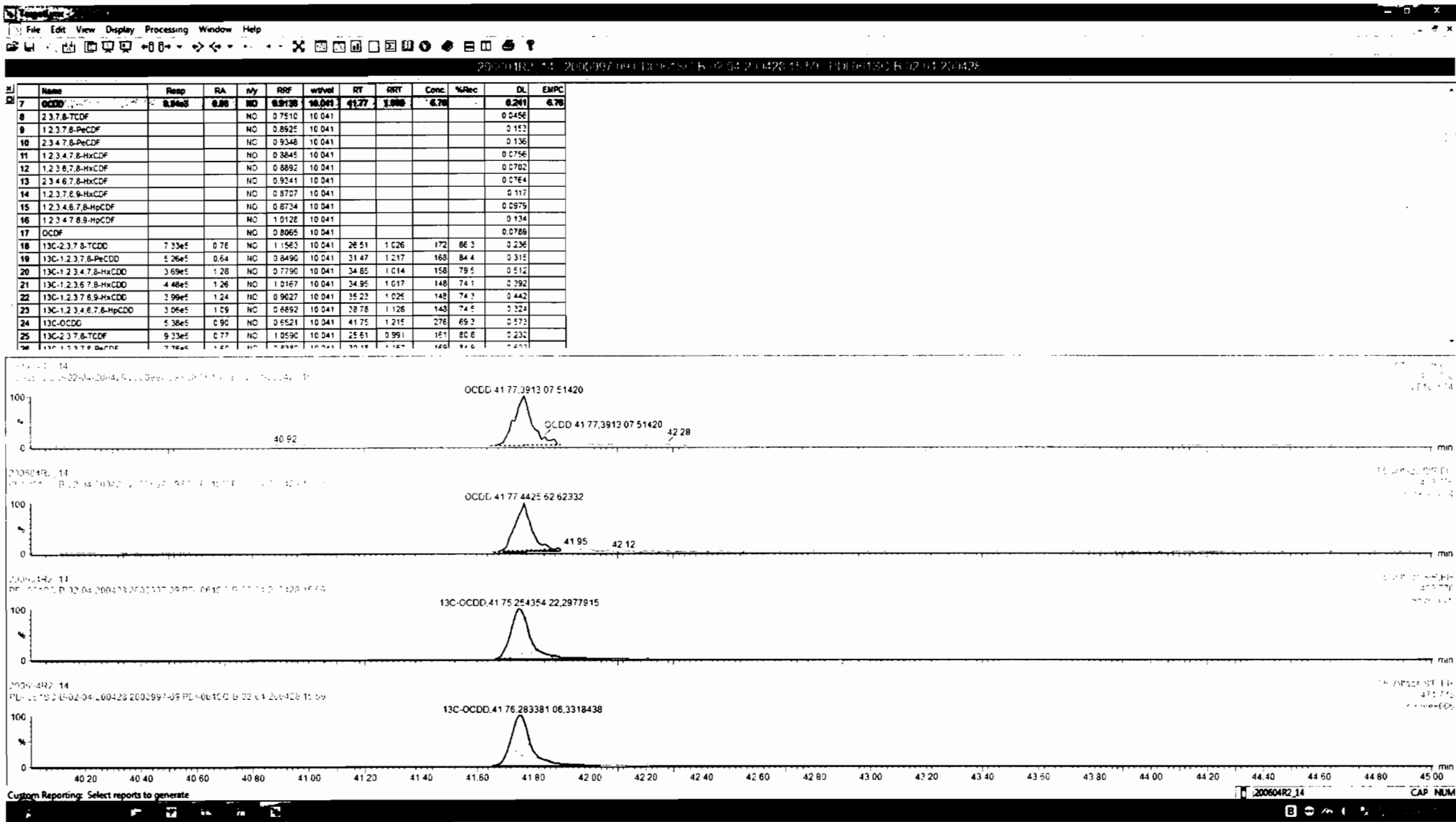


F5:Voltage SIR,EI+
469.778
2.982e+006

200604R2_14



F5:Voltage SIR,EI+
471.775
3.329e+006



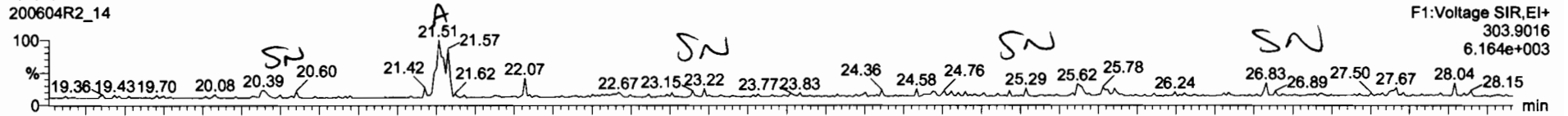
Dataset: Untitled

Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

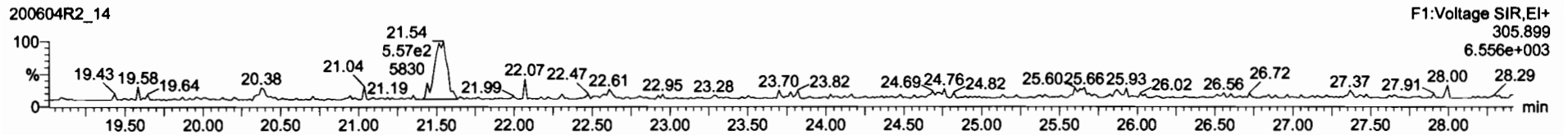
Name: 200604R2_14, Date: 05-Jun-2020, Time: 06:00:48, ID: 2000997-09 PDI-061SC-B-02-04-200428 15.59, Description: PDI-061SC-B-02-04-200428

2,3,7,8-TCDF

200604R2_14

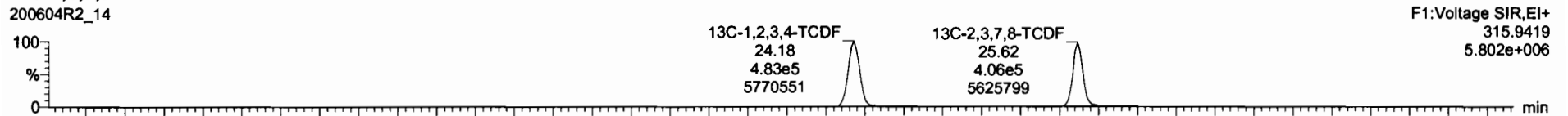


200604R2_14

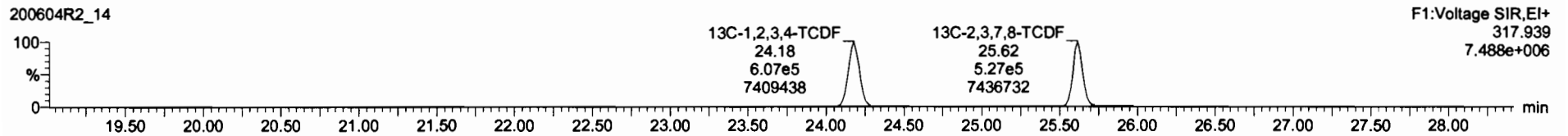


13C-2,3,7,8-TCDF

200604R2_14

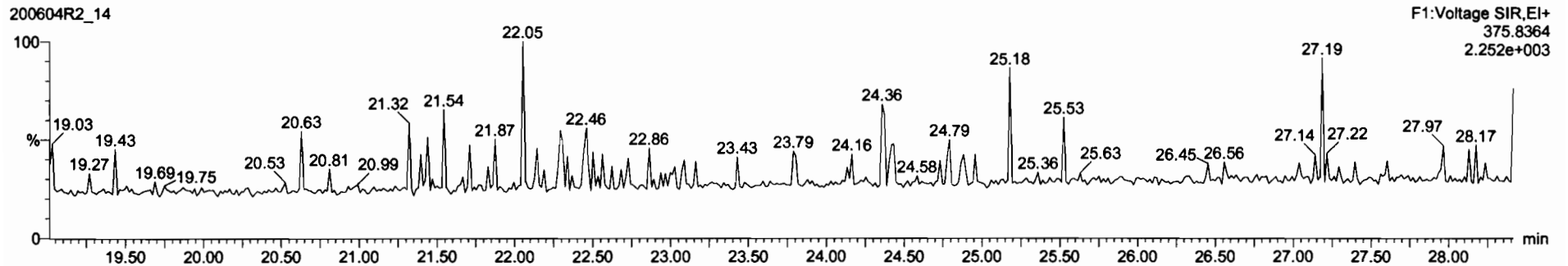


200604R2_14



DPE1

200604R2_14



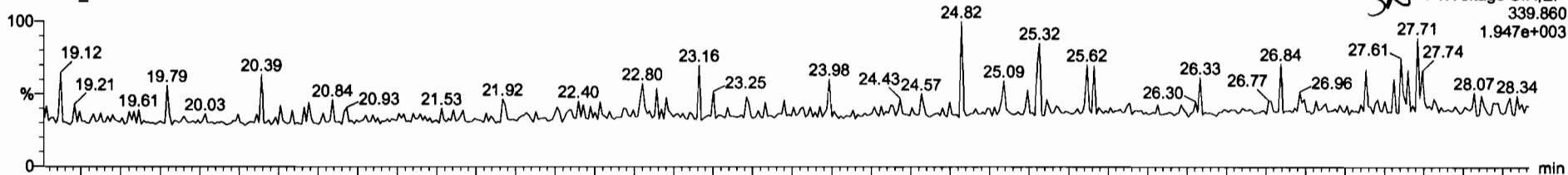
Dataset: Untitled

Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

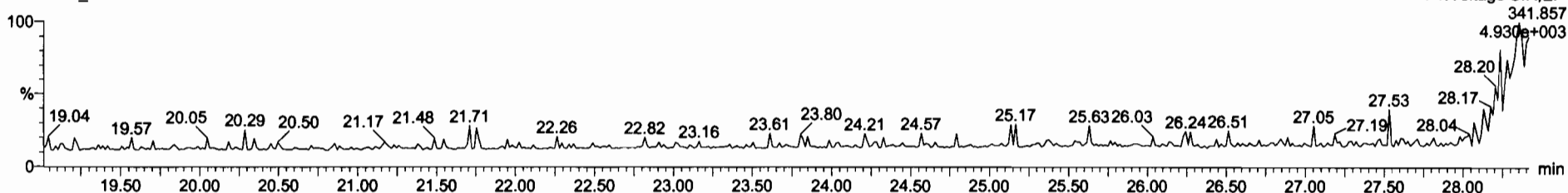
Name: 200604R2_14, Date: 05-Jun-2020, Time: 06:00:48, ID: 2000997-09 PDI-061SC-B-02-04-200428 15.59, Description: PDI-061SC-B-02-04-200428

1st Func. Penta-Furans

200604R2_14

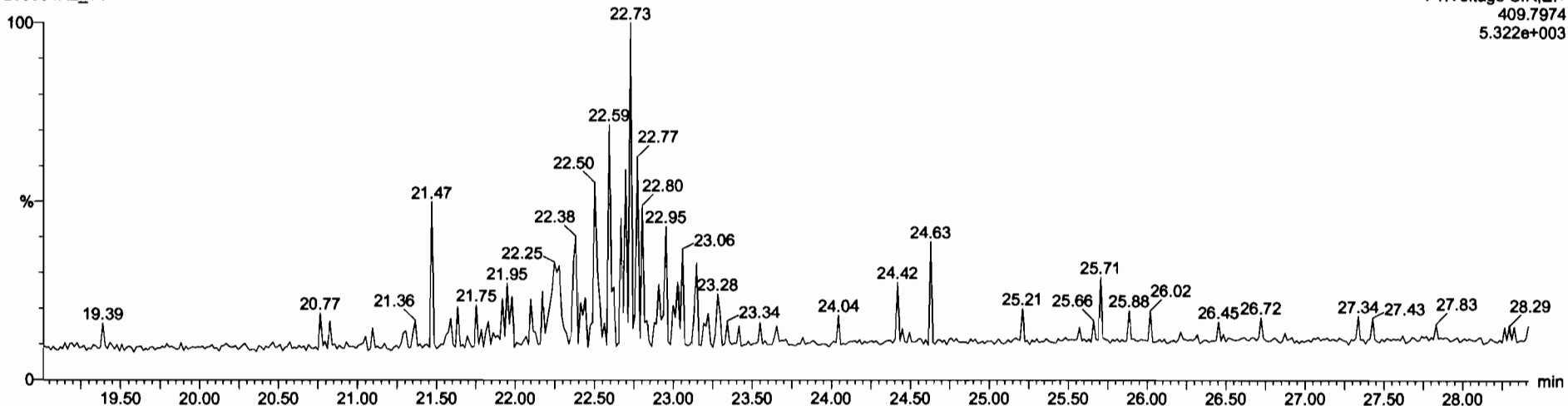


200604R2_14



DPE6

200604R2_14



Dataset: Untitled

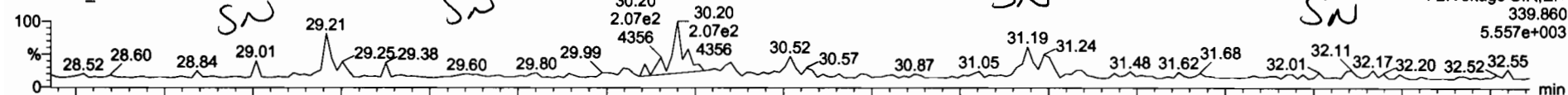
Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time

Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_14, Date: 05-Jun-2020, Time: 06:00:48, ID: 2000997-09 PDI-061SC-B-02-04-200428 15.59, Description: PDI-061SC-B-02-04-200428

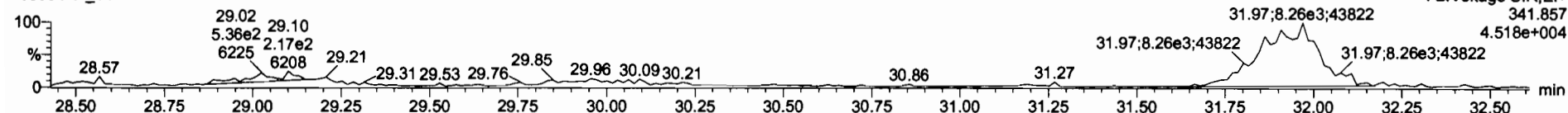
1,2,3,7,8-PeCDF

200604R2_14



F2:Voltage SIR,EI+
339.860
5.557e+003

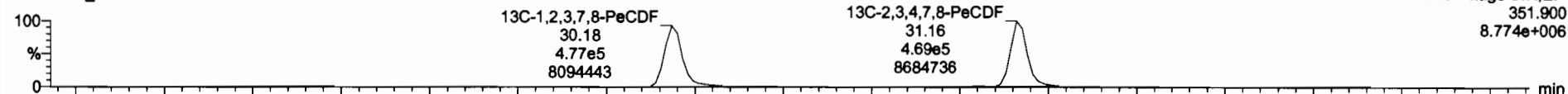
200604R2_14



F2:Voltage SIR,EI+
341.857
4.518e+004

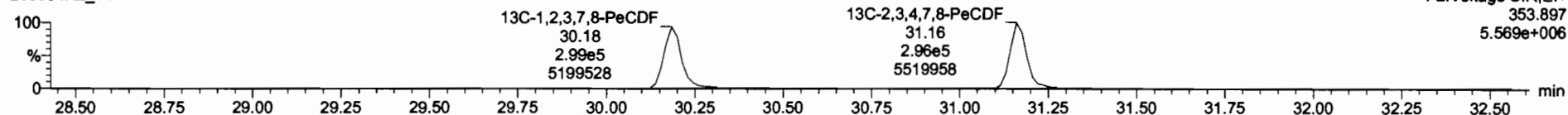
13C-1,2,3,7,8-PeCDF

200604R2_14



F2:Voltage SIR,EI+
351.900
8.774e+006

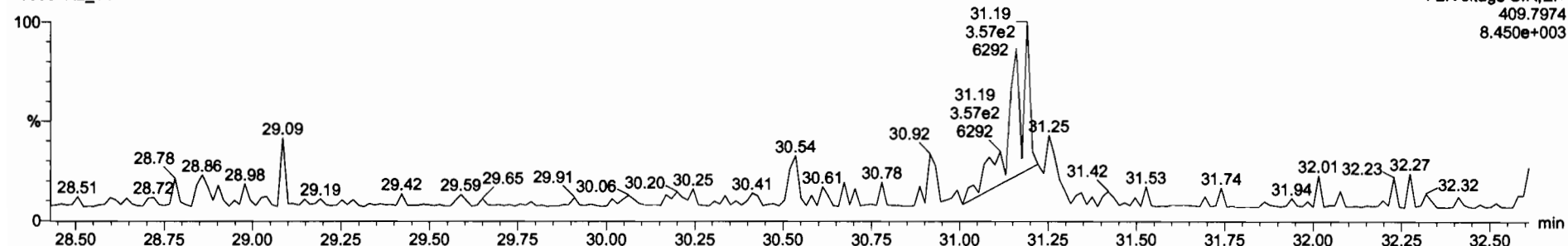
200604R2_14



F2:Voltage SIR,EI+
353.897
5.569e+006

DPE2

200604R2_14



F2:Voltage SIR,EI+
409.7974
8.450e+003

Dataset: Untitled

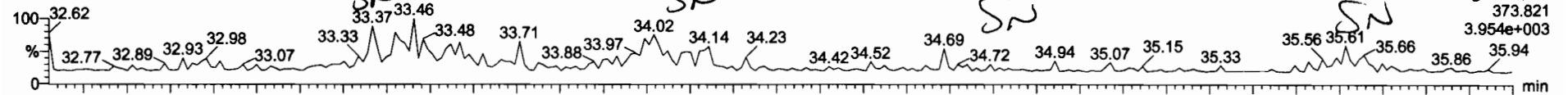
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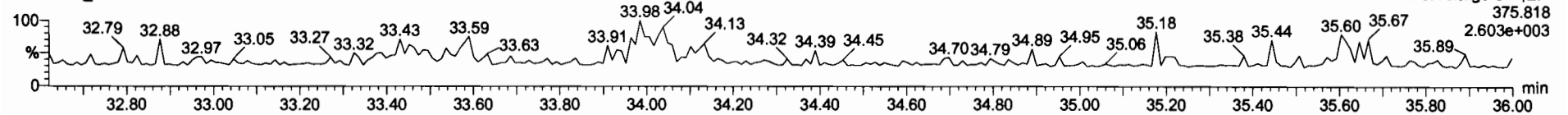
Name: 200604R2_14, Date: 05-Jun-2020, Time: 06:00:48, ID: 2000997-09 PDI-061SC-B-02-04-200428 15.59, Description: PDI-061SC-B-02-04-200428

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

200604R2_14

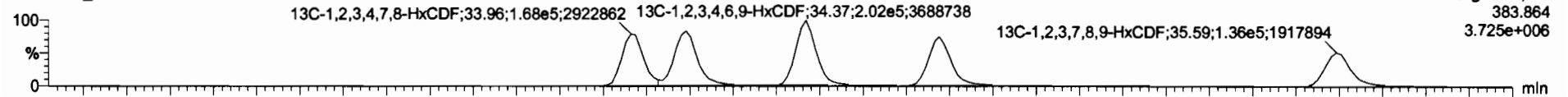


200604R2_14

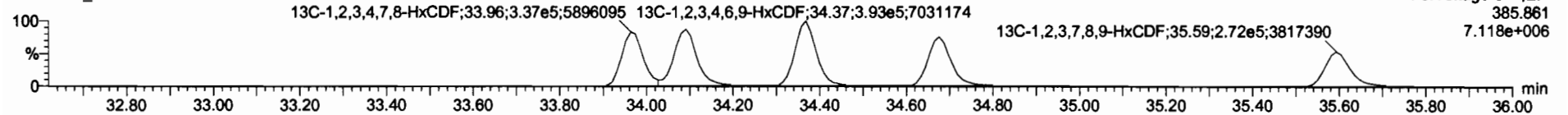


13C-1,2,3,4,7,8-HxCDF

200604R2_14

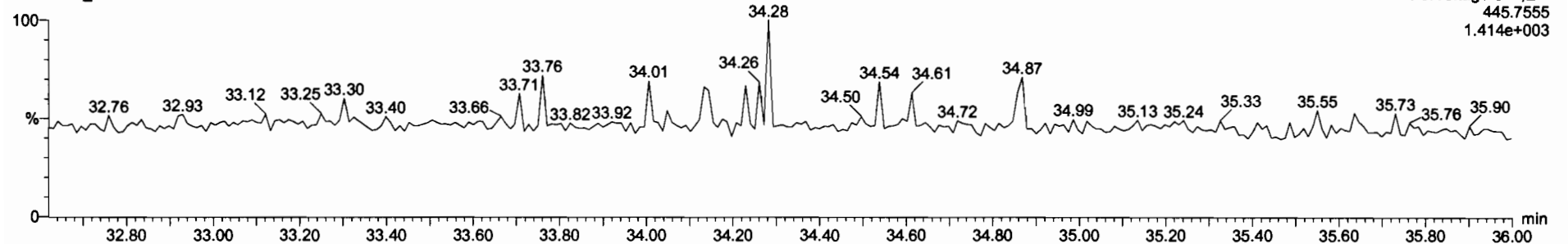


200604R2_14



DPE3

200604R2_14

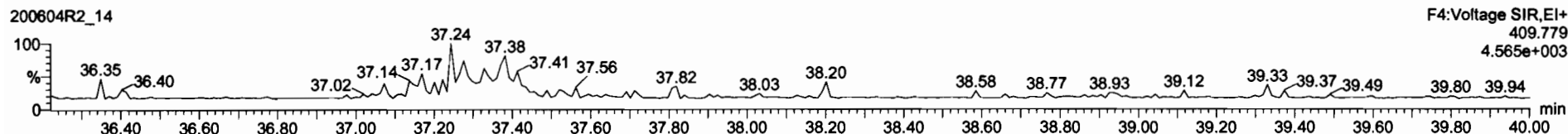
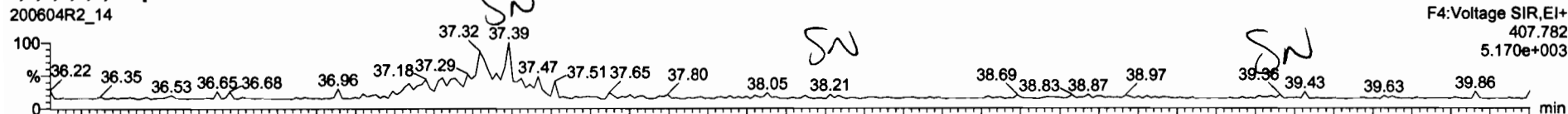


Dataset: Untitled

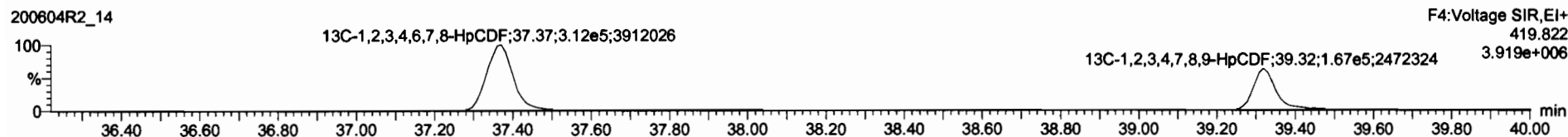
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Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_14, Date: 05-Jun-2020, Time: 06:00:48, ID: 2000997-09 PDI-061SC-B-02-04-200428 15.59, Description: PDI-061SC-B-02-04-200428

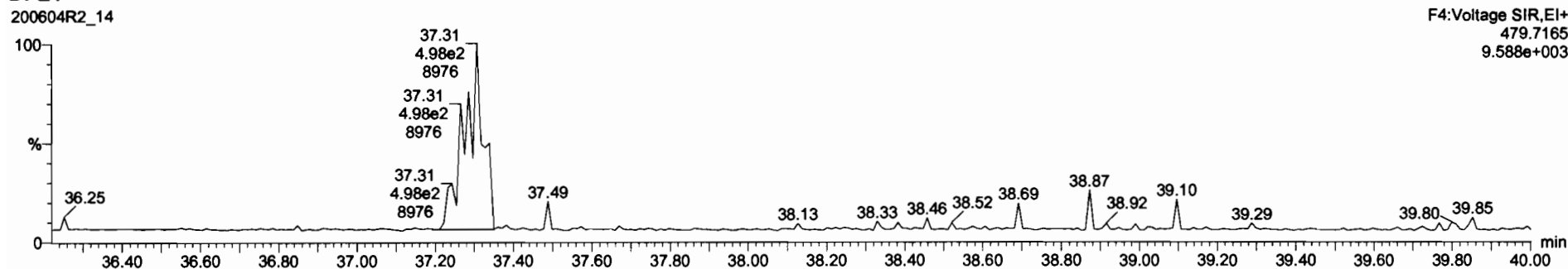
1,2,3,4,6,7,8-HpCDF



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



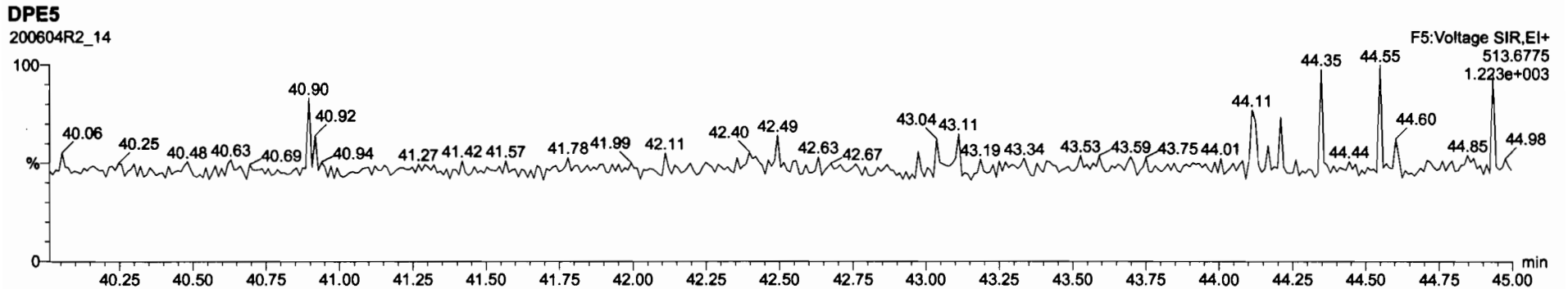
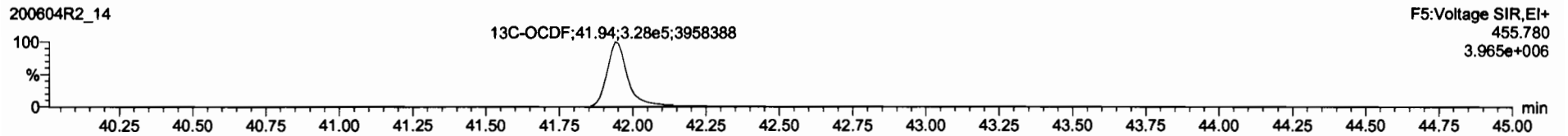
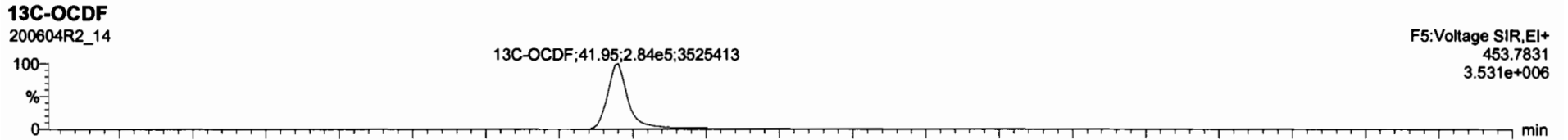
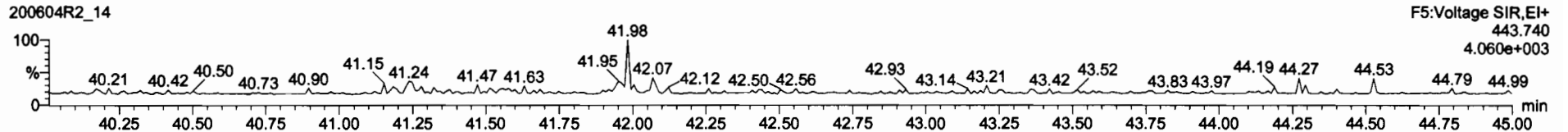
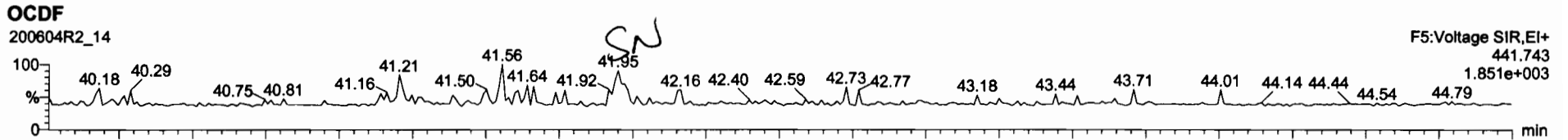
DPE4



Dataset: Untitled

Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_14, Date: 05-Jun-2020, Time: 06:00:48, ID: 2000997-09 PDI-061SC-B-02-04-200428 15.59, Description: PDI-061SC-B-02-04-200428

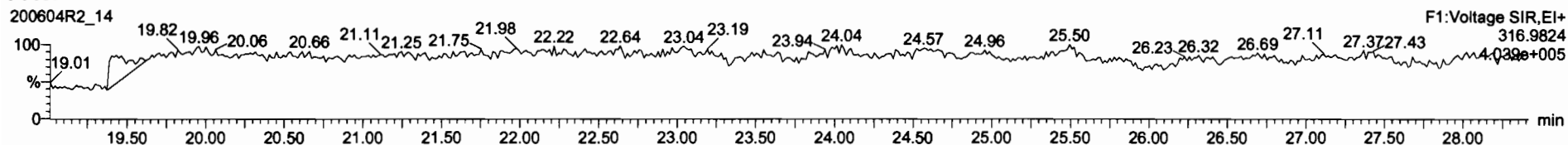


Dataset: Untitled

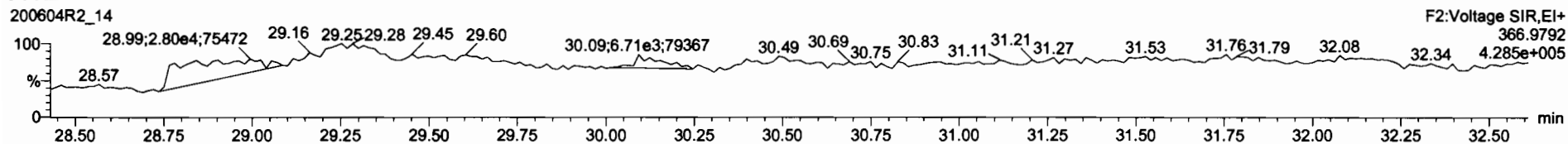
Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_14, Date: 05-Jun-2020, Time: 06:00:48, ID: 2000997-09 PDI-061SC-B-02-04-200428 15.59, Description: PDI-061SC-B-02-04-200428

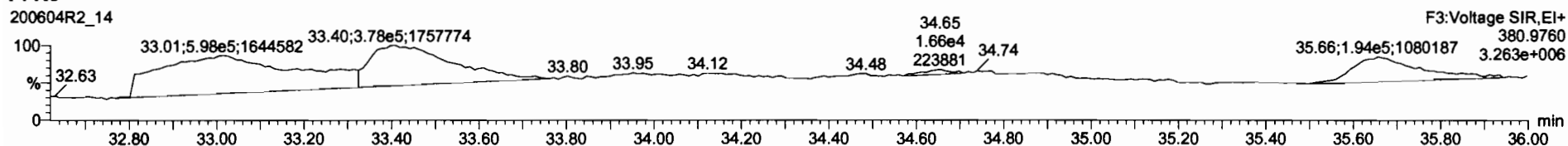
PFK1



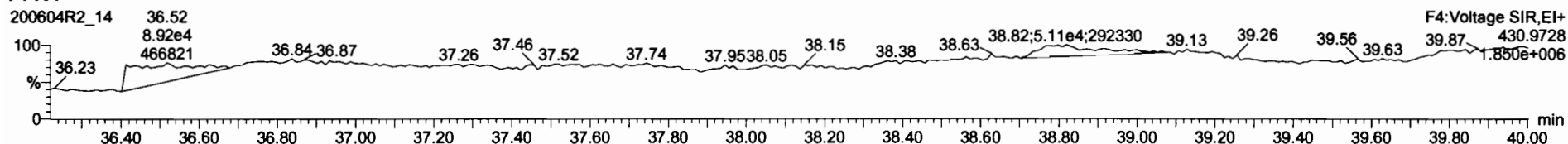
PFK2



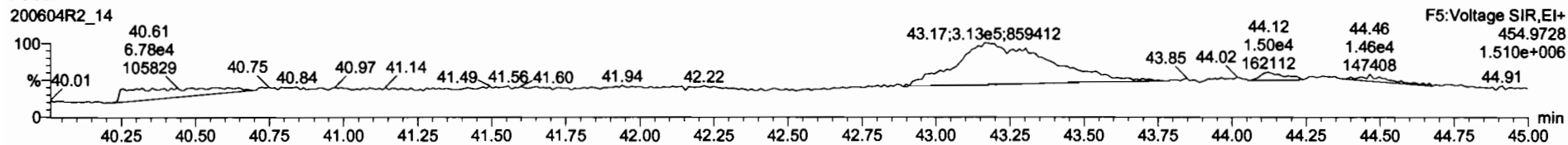
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200604R2\200604R2-15.qld

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Printed: Friday, June 05, 2020 11:59:37 Pacific Daylight Time

GPR 06/05/2020

CA 07/02/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R2_15, Date: 05-Jun-2020, Time: 06:47:03, ID: 2000997-10 PDI-061SC-B-04-06-200428 15.2, Description: PDI-061SC-B-04-06-200428

#	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	0.888	10.074	26.531		1.001				0.0501	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.074	31.473		1.001				0.0887	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.074	34.835		1.000				0.0890	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.074	34.932		1.000				0.0881	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.074	35.220		1.000				0.102	
6	6 1,2,3,4,6,7,8-HpCDD	5.00e2	0.92	NO	0.864	10.074	38.768	38.79	1.000	1.001	0.37075		0.133	0.371
7	7 OCDD	3.52e3	0.92	NO	0.914	10.074	41.727	41.75	1.000	1.001	2.7493		0.131	2.75
8	8 2,3,7,8-TCDF			NO	0.751	10.074	25.627		1.001				0.0359	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.074	30.190		1.001				0.0477	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.074	31.177		1.001				0.0446	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.074	33.952		1.000				0.0340	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.074	34.079		1.000				0.0302	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.074	34.690		1.001				0.0346	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.074	35.571		1.000				0.0508	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.074	37.376		1.001				0.0940	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.074	39.299		1.000				0.0976	
17	17 OCDF			NO	0.806	10.074	41.919		1.000				0.0592	
18	18 13C-2,3,7,8-TCDD	8.15e5	0.80	NO	1.16	10.074	26.522	26.50	1.026	1.026	191.41	96.4	0.224	
19	19 13C-1,2,3,7,8-PeCDD	5.66e5	0.62	NO	0.849	10.074	31.711	31.45	1.227	1.217	180.93	91.1	0.349	
20	20 13C-1,2,3,4,7,8-HxCDD	3.83e5	1.27	NO	0.779	10.074	34.841	34.83	1.014	1.014	168.58	84.9	0.705	
21	21 13C-1,2,3,6,7,8-HxCDD	4.97e5	1.27	NO	1.02	10.074	34.955	34.93	1.017	1.017	167.39	84.3	0.540	
22	22 13C-1,2,3,7,8,9-HxCDD	4.37e5	1.21	NO	0.903	10.074	35.226	35.21	1.025	1.025	165.60	83.4	0.608	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.10e5	1.05	NO	0.689	10.074	38.751	38.76	1.128	1.128	153.92	77.5	0.442	
24	24 13C-OCDD	5.57e5	0.88	NO	0.652	10.074	41.775	41.73	1.216	1.215	292.26	73.6	0.518	
25	25 13C-2,3,7,8-TCDF	1.04e6	0.77	NO	1.06	10.074	25.564	25.60	0.989	0.991	181.34	91.3	0.231	
26	26 13C-1,2,3,7,8-PeCDF	8.38e5	1.60	NO	0.838	10.074	30.093	30.17	1.165	1.168	184.88	93.1	0.545	
27	27 13C-2,3,4,7,8-PeCDF	8.27e5	1.60	NO	0.817	10.074	31.047	31.15	1.202	1.205	187.06	94.2	0.559	
28	28 13C-1,2,3,4,7,8-HxCDF	5.17e5	0.50	NO	1.01	10.074	33.972	33.95	0.989	0.988	175.64	88.5	0.829	
29	29 13C-1,2,3,6,7,8-HxCDF	5.92e5	0.51	NO	1.17	10.074	34.096	34.07	0.992	0.992	173.79	87.5	0.715	
30	30 13C-2,3,4,6,7,8-HxCDF	5.34e5	0.51	NO	1.02	10.074	34.670	34.65	1.009	1.009	179.01	90.2	0.817	
31	31 13C-1,2,3,7,8,9-HxCDF	4.40e5	0.49	NO	0.860	10.074	35.570	35.57	1.035	1.035	175.35	88.3	0.971	

Dataset: U:\WG12.PRO\Results\200604R2\200604R2-15.qld

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3, ID: 200897-10 PDI-061SC-B-04-06-200428 15.2, Description: PDI-061SC-B-04-06-200428

Peak	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.73e5	0.43	NO	0.774	10.074	37.319	37.34	1.086	1.087	164.94	83.1	0.486	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.54e5	0.42	NO	0.521	10.074	39.349	39.30	1.145	1.144	166.99	84.1	0.723	
34	34 13C-CCDF	6.39e5	0.86	NO	0.746	10.074	41.946	41.92	1.221	1.220	293.59	73.9	0.707	
35	35 37Cl-2,3,7,8-TCDD	3.09e5			1.94	10.074	26.553	26.51	1.023	1.026	80.985	102	0.142	
36	36 13C-1,2,3,4-TCDD	7.31e5	0.79	NO	1.00	10.074	25.890	25.84	1.000	1.000	198.53	100	0.259	
37	37 13C-1,2,3,4-TCDF	1.07e6	0.80	NO	1.00	10.074	24.360	24.16	1.000	1.000	198.53	100	0.244	
38	38 13C-1,2,3,4,6,9-HxCDF	5.80e5	0.50	NO	1.00	10.074	34.420	34.36	1.000	1.000	198.53	100	0.835	
39	39 Total Tetra-Dioxins				0.888	10.074	24.620		0.000		0.22032		0.0501	0.220
40	40 Total Penta-Dioxins				0.908	10.074	29.960		0.000		0.00000		0.0494	0.0504
41	41 Total Hexa-Dioxins				0.892	10.074	33.635		0.000		0.35354		0.0970	0.354
42	42 Total Hepta-Dioxins				0.864	10.074	37.640		0.000		0.94879		0.133	0.949
43	43 Total Tetra-Furans				0.751	10.074	23.610		0.000		0.00000		0.0152	0.130
44	44 1st Func. Penta-Furans				0.893	10.074	27.580		0.000				0.00771	
45	45 Total Penta-Furans				0.893	10.074	29.275		0.000				0.0280	
46	46 Total Hexa-Furans				0.934	10.074	33.555		0.000				0.0194	
47	47 Total Hepta-Furans				0.873	10.074	37.835		0.000				0.0361	

Dataset: U:\VG12 PRO\Results\200604R2\200604R2-15.qld

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Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R2_15, Date: 05-Jun-2020, Time: 06:47:03, ID: 2000997-10 PDI-061SC-B-04-06-200428 15.2, Description: PDI-061SC-B-04-06-200428

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Tetra-Dioxins	24.33	4.684e3	5.689e3	3.550e2	4.488e2	0.79	NO	8.039e2	0.22032	0.22032	0.0501

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Penta-Dioxins	29.73	1.251e3	4.653e3	5.041e1	1.967e2	0.26	YES	0.000e0	0.00000	0.050382	0.0494

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hexa-Dioxins	33.35	7.091e3	5.585e3	3.921e2	3.055e2	1.28	NO	6.976e2	0.35354	0.35354	0.0970

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hepta-Dioxins	37.76	4.655e3	4.734e3	4.116e2	3.676e2	1.12	NO	7.792e2	0.57804	0.57804	0.133
2 1,2,3,4,6,7,8-HpCDD	38.79	3.264e3	5.021e3	2.391e2	2.607e2	0.92	NO	4.998e2	0.37075	0.37075	0.133

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Tetra-Furans	21.51	2.965e3	4.511e3	2.215e2	3.734e2	0.59	YES	0.000e0	0.00000	0.12950	0.0152

Penta-Furans function 1

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

R2-15.qld Dataset: U:\VG12.PRO\Results\200604R2\200604R2-15.qld

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Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

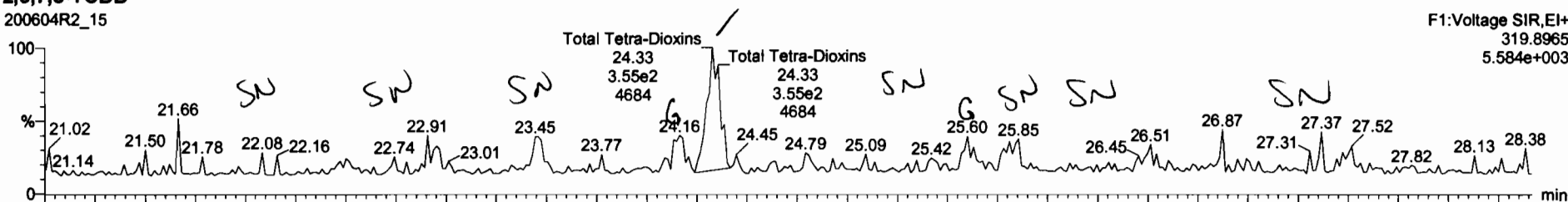
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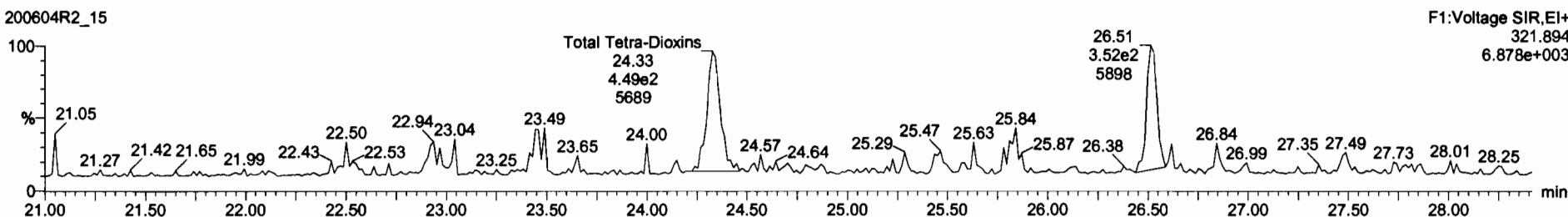
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2,3,7,8-TCDD

200604R2_15

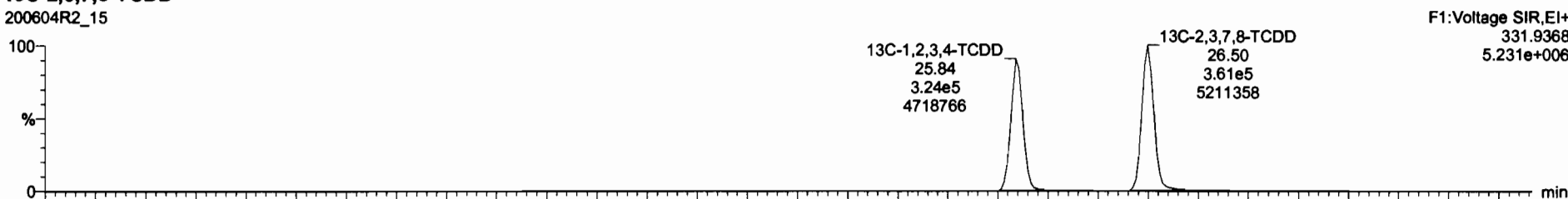


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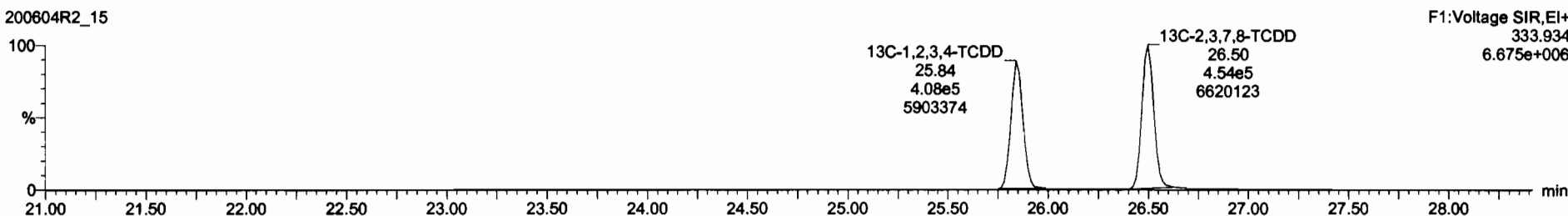


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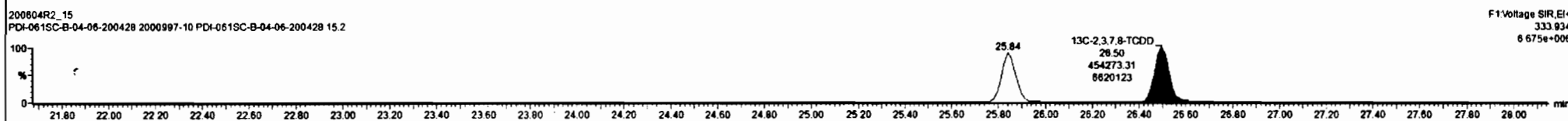
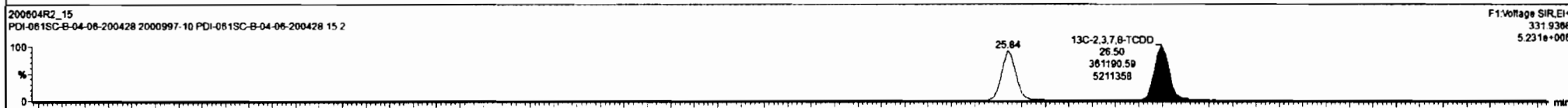
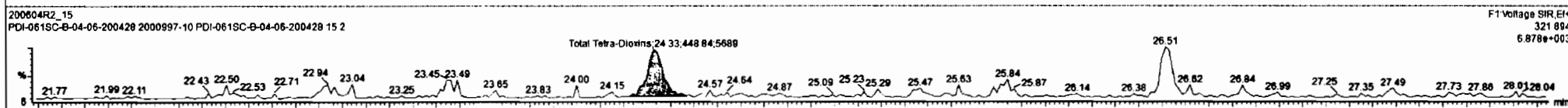
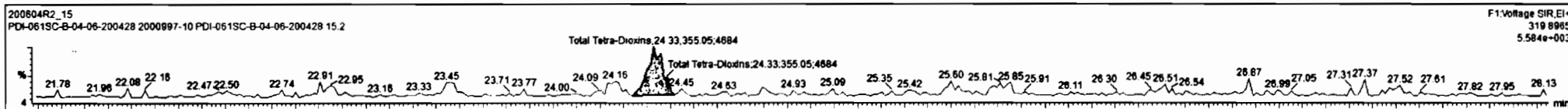
200604R2_15



200604R2_15



Total Penta-Dioxins	0.9081	10.074	0.000	0.0494	0.0500
Total Hexa-Dioxins	0.8823	10.074	0.354	0.0970	0.354
Total Hepta-Dioxins	0.8630	10.074	0.948	0.133	0.949
Total Tetra-Furans	0.7510	10.074	0.000	0.0152	0.130
1st Func. Penta-Furans	0.8825	10.074		0.00771	
Total Penta-Furans	0.8825	10.074	0.0280		
Total Hexa-Furans	0.9341	10.074	0.0194		
Total Hepta-Furans	0.8734	10.074	0.0361		
PFK1					
PFK2					
PFK3					
PFK4					
PFK5					
DPE1					
DPE2					
DPE3					
DPE4					
DPE5					



Dataset: Untitled

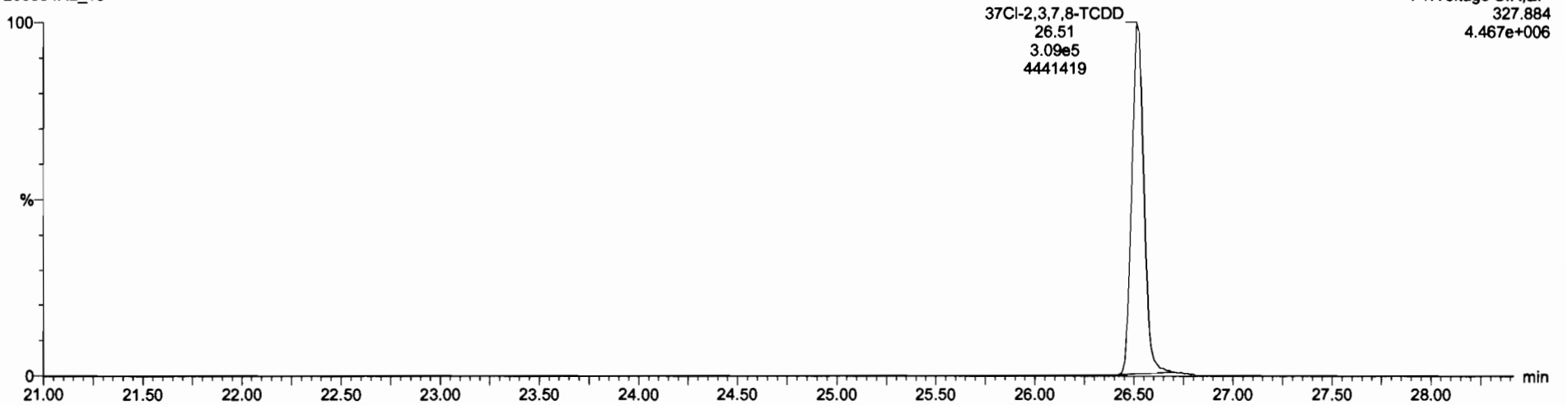
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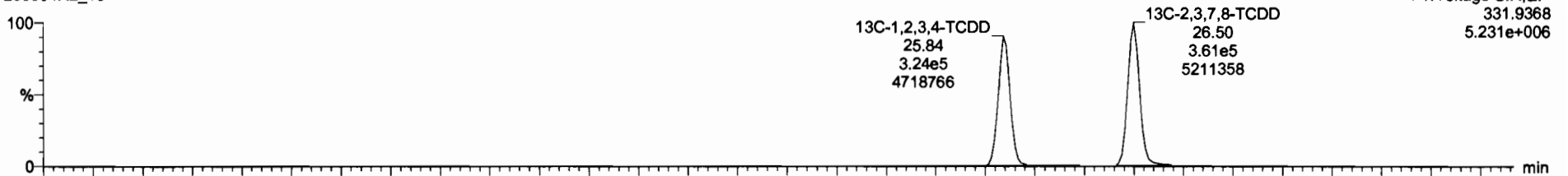
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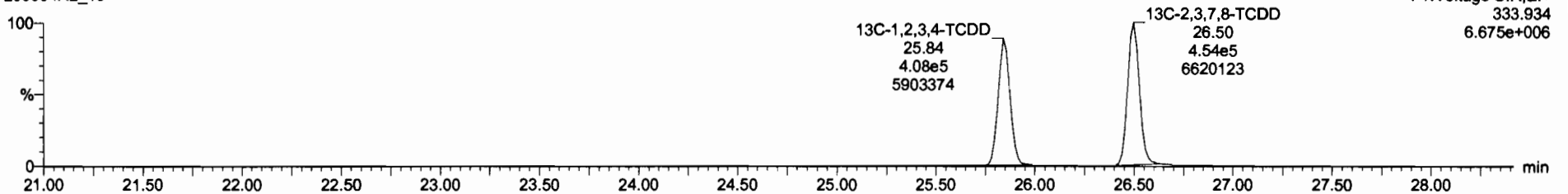


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200604R2_15



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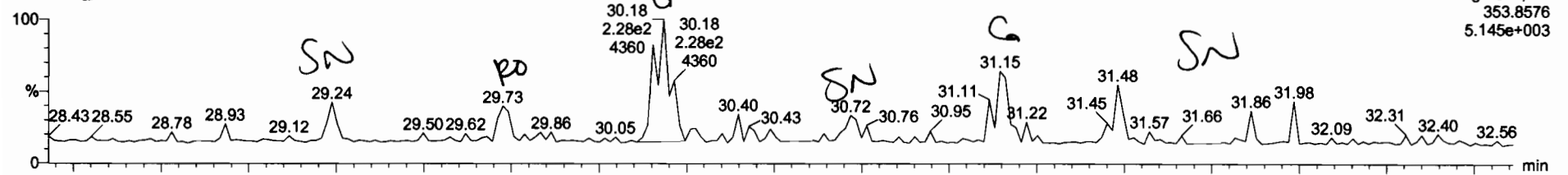
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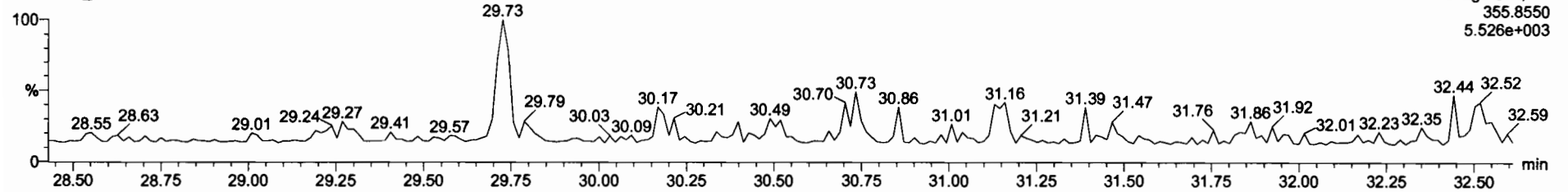
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1,2,3,7,8-PeCDD

200604R2_15

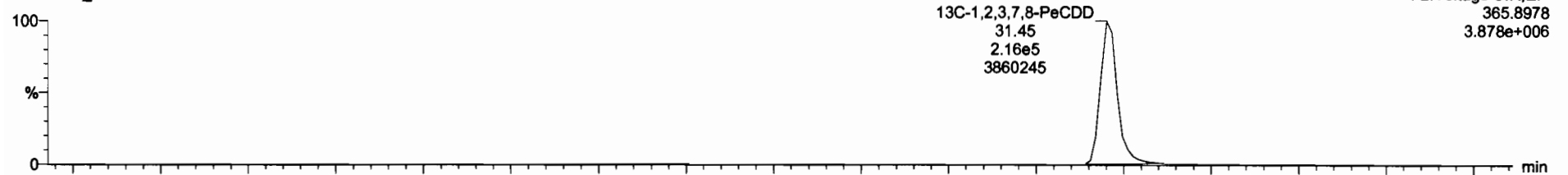


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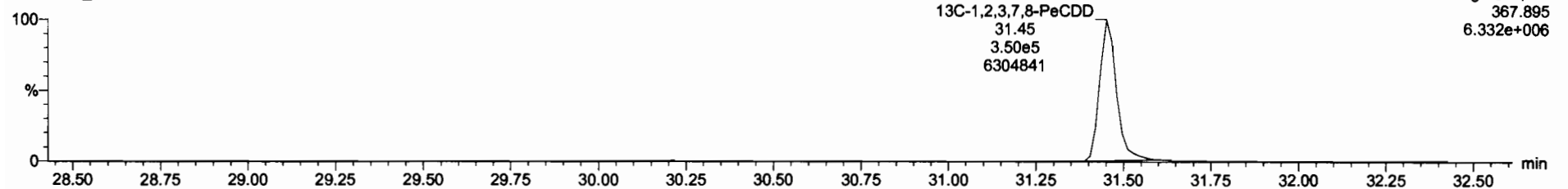


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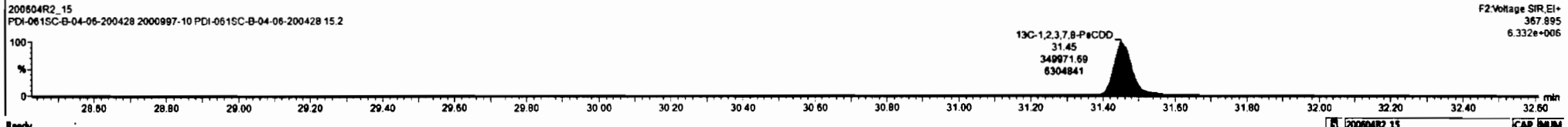
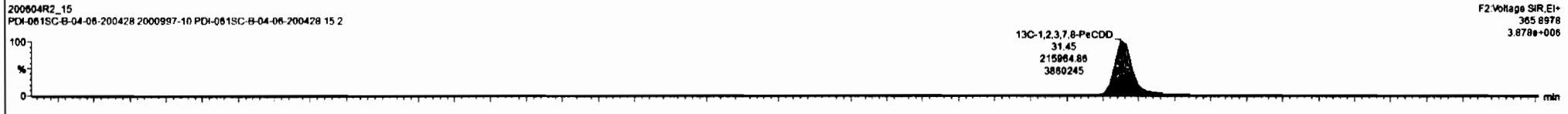
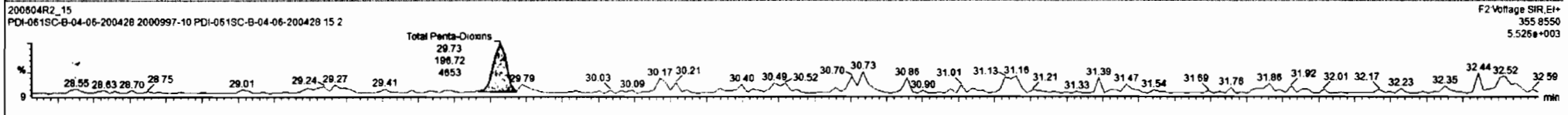
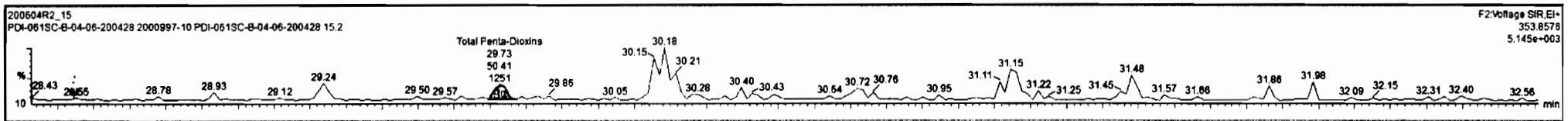
200604R2_15



200604R2_15



Sample	Concentration	Retention Time	Area	Response	Concentration	Retention Time	Area	Response
Total Tetra-Dioxins	0.8663	10.074		0.220	0.8501	0.220		
Total Hexa-Dioxins	0.8923	10.074		0.354	0.0970	0.354		
Total Hepta-Dioxins	0.8630	10.074		0.949	0.133	0.949		
Total Tetra-Furans	0.7510	10.074		0.000	0.0152	0.130		
1st Func. Penta-Furans	0.8625	10.074			0.00771			
Total Penta-Furans	0.8625	10.074		0.0280				
Total Hexa-Furans	0.9341	10.074		0.0194				
Total Hepta-Furans	0.8734	10.074		0.0361				
PFK1								
PFK2								
PFK3								
PFK4								
PFK5								
DPE1								
DPE2								
DPE3								
DPE4								
DPE5								



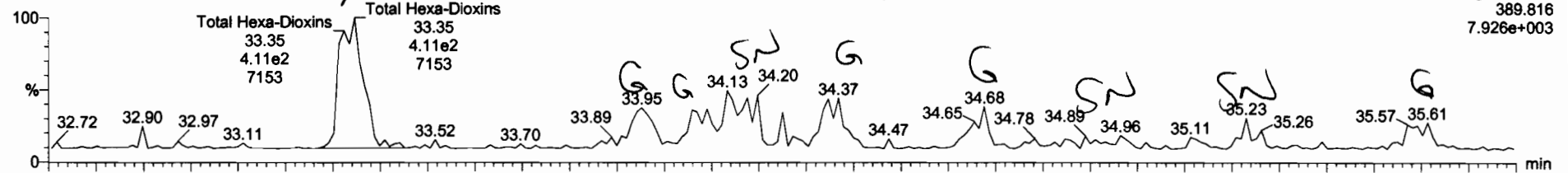
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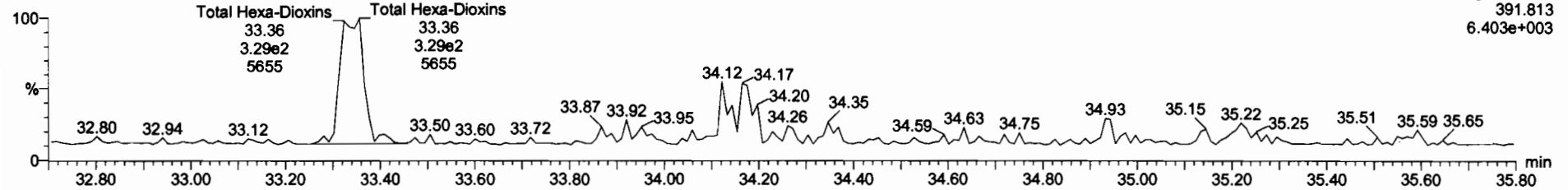
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1,2,3,4,7,8-HxCDD

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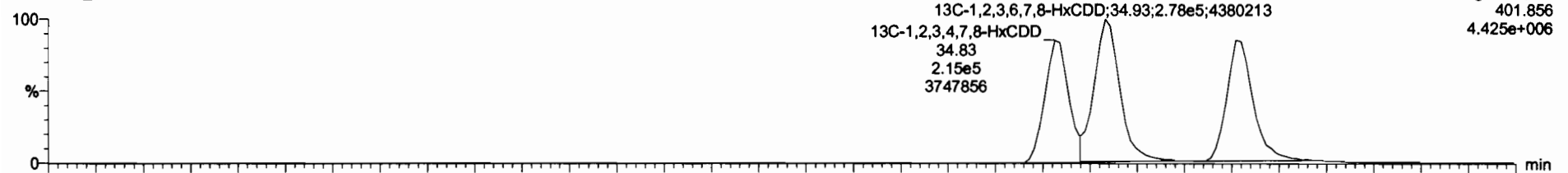


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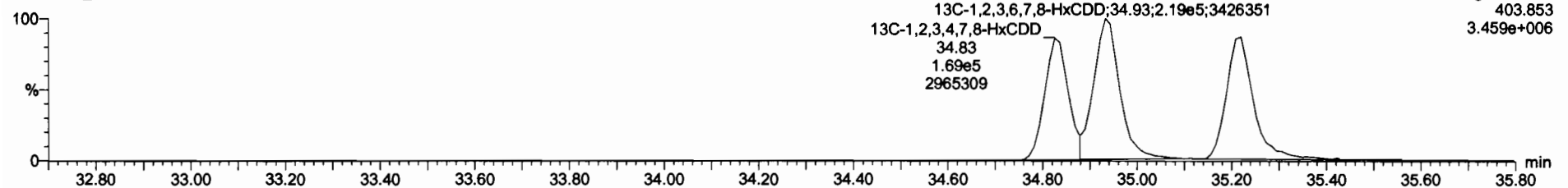


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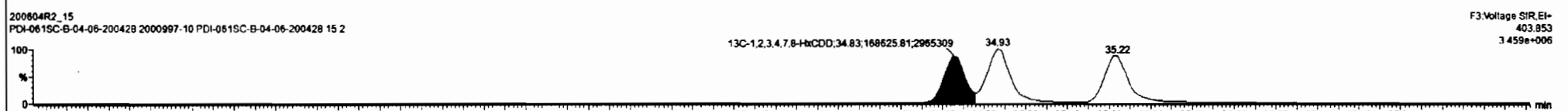
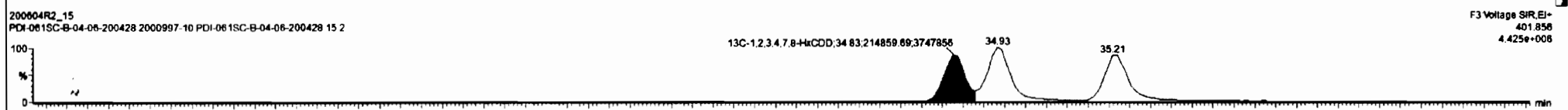
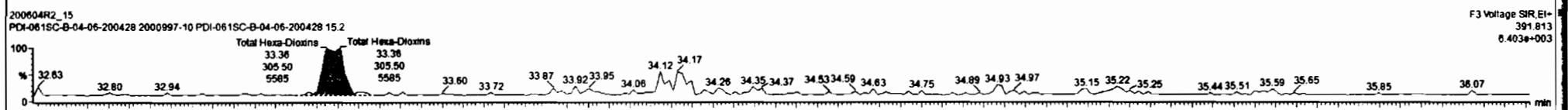
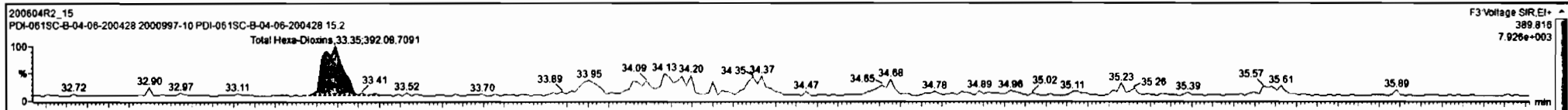
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200604R2_15



Comp	Area	Time	Conc	Area	Conc	Area	Conc
Total Tetra-Dioxine	0.8883	10.074	0.220	0.0501	0.220		
Total Penta-Dioxine	0.9081	10.074	0.000	0.0484	0.0500		
Total Hepta-Dioxine	0.8539	10.074	0.049	0.133	0.049		
Total Tetra-Furans	0.7510	10.074	0.000	0.0152	0.130		
1st Penta-Furans	0.8825	10.074		0.00771			
Total Penta-Furans	0.8825	10.074		0.0280			
Total Hexa-Furans	0.9341	10.074		0.0194			
Total Hepta-Furans	0.8734	10.074		0.0361			
PFK1							
PFK2							
PFK3							
PFK4							
PFK5							
DPE1							
DPE2							
DPE3							
DPE4							
DPE5							
name							



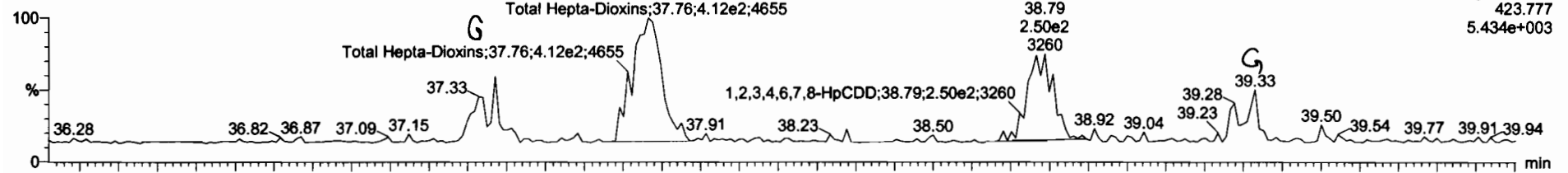
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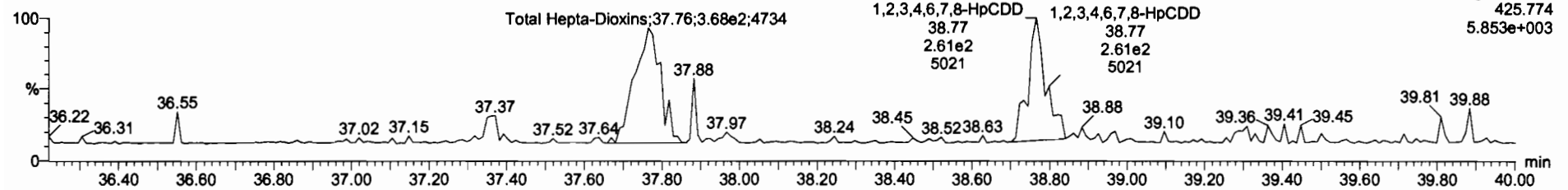
1,2,3,4,6,7,8-HpCDD

200604R2_15



F4:Voltage SIR,EI+
423.777
5.434e+003

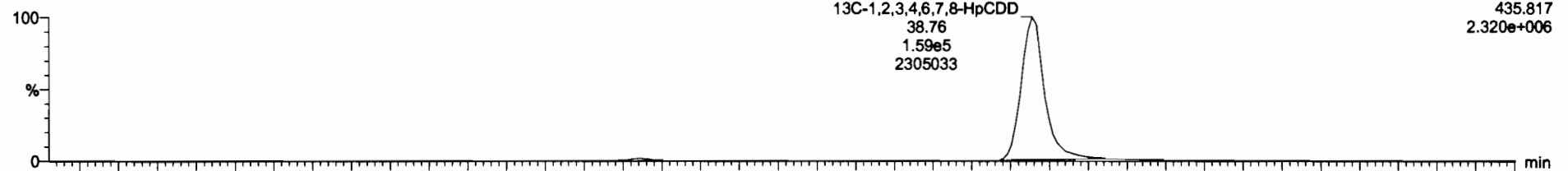
200604R2_15



F4:Voltage SIR,EI+
425.774
5.853e+003

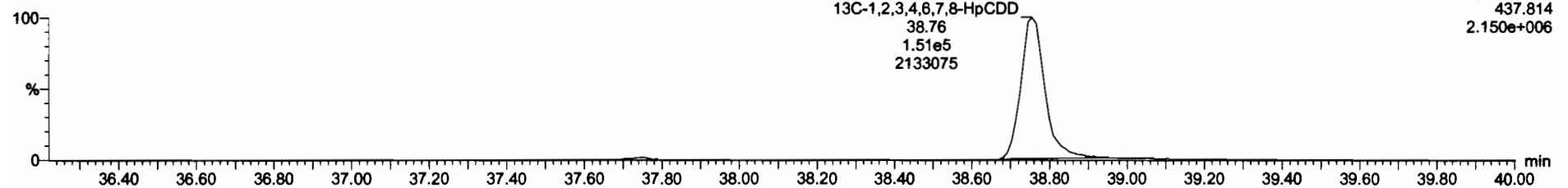
13C-1,2,3,4,6,7,8-HpCDD

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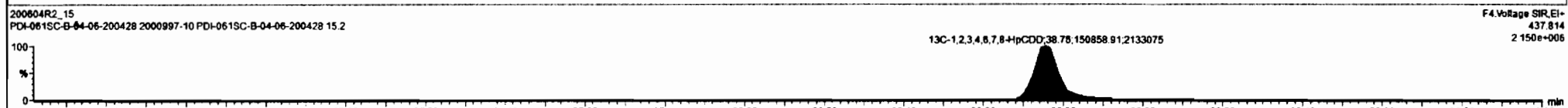
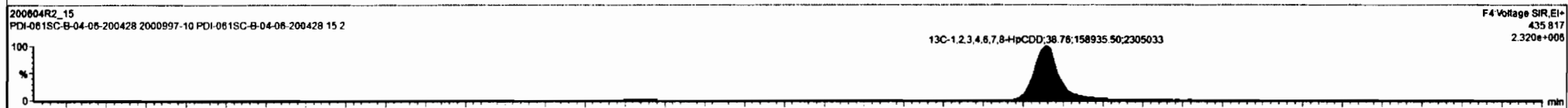
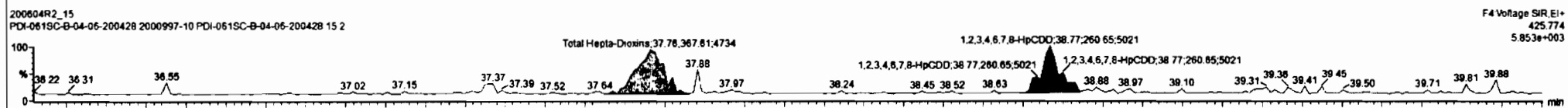
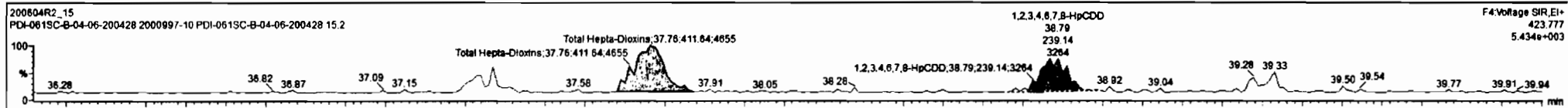
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435.817
2.320e+006

200604R2_15



F4:Voltage SIR,EI+
437.814
2.150e+006

Component	Area	Time	Height	Width	Area%	Height%
Total Tetra-Dioxins	0.9853	10.074		0.220	0.9501	0.220
Total Penta-Dioxins	0.9081	10.074		0.000	0.0494	0.0500
Total Hexa-Dioxins	0.9823	10.074		0.354	0.9970	0.354
Total Tetra-Furans	0.7510	10.074		0.000	0.0152	0.130
1st Func. Penta-Furans	0.9825	10.074			0.00771	
Total Penta-Furans	0.9825	10.074			0.0280	
Total Hexa-Furans	0.9341	10.074			0.0194	
Total Hepta-Furans	0.8734	10.074			0.0361	
PFK1						
PFK2						
PFK3						
PFK4						
PFK5						
DPE1						
DPE2						
DPE3						
DPE4						
DPE5						
PFK6						



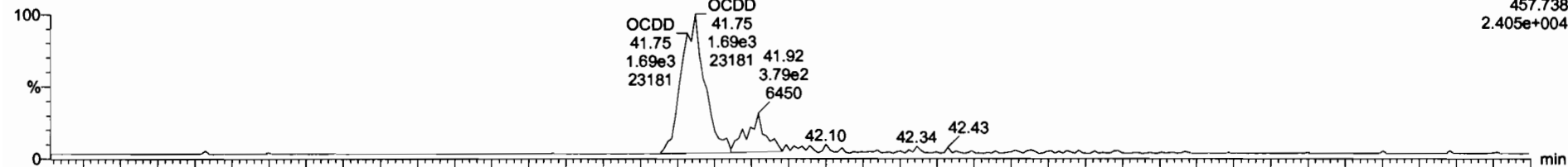
Dataset: Untitled

Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_15, Date: 05-Jun-2020, Time: 06:47:03, ID: 2000997-10 PDI-061SC-B-04-06-200428 15.2, Description: PDI-061SC-B-04-06-200428

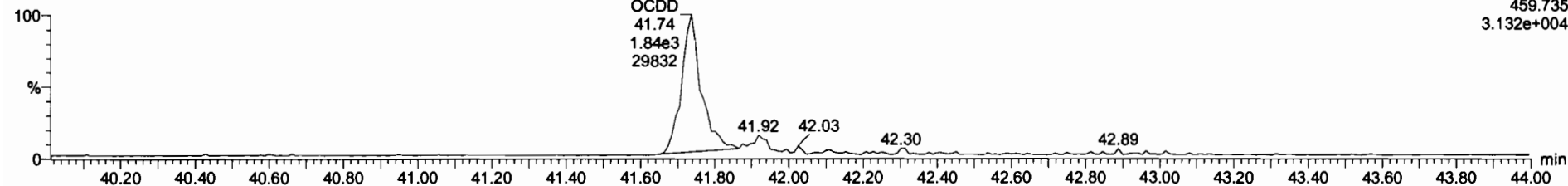
OCDD

200604R2_15



F5:Voltage SIR,EI+
457.738
2.405e+004

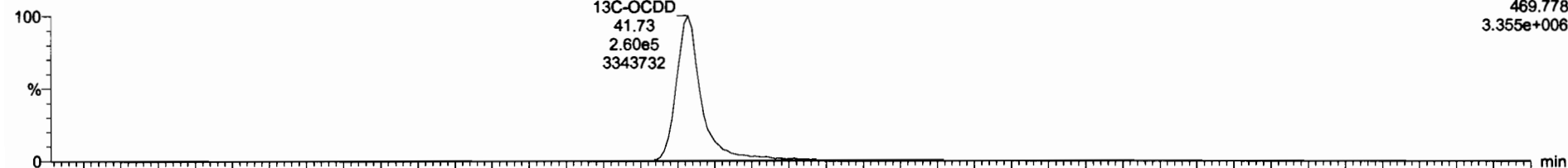
200604R2_15



F5:Voltage SIR,EI+
459.735
3.132e+004

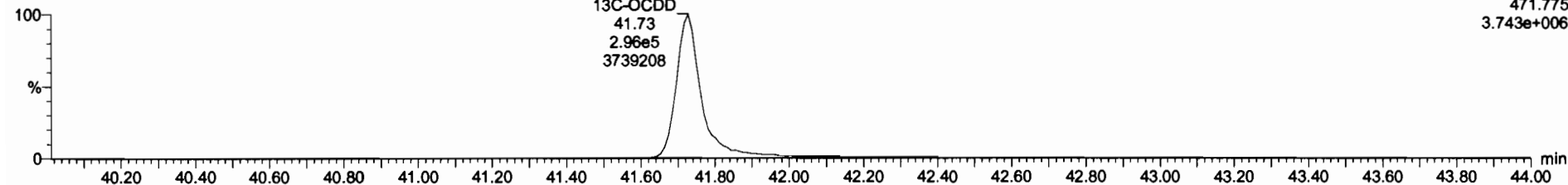
13C-OCDD

200604R2_15



F5:Voltage SIR,EI+
469.778
3.355e+006

200604R2_15



F5:Voltage SIR,EI+
471.775
3.743e+006

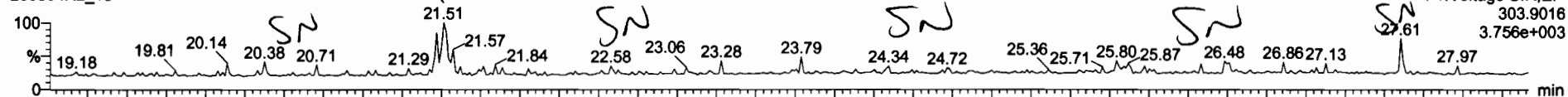
Dataset: Untitled

Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

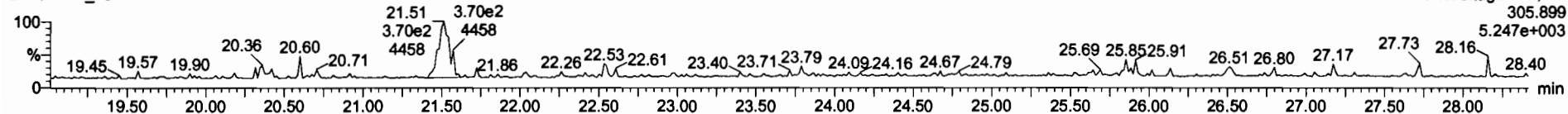
Name: 200604R2_15, Date: 05-Jun-2020, Time: 06:47:03, ID: 2000997-10 PDI-061SC-B-04-06-200428 15.2, Description: PDI-061SC-B-04-06-200428

2,3,7,8-TCDF

200604R2_15

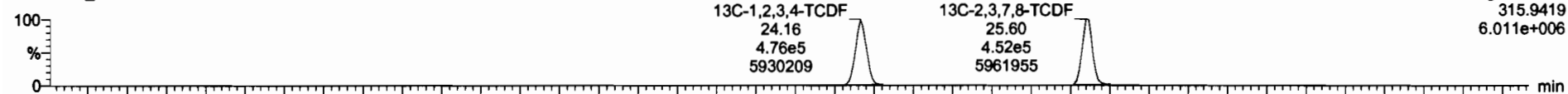


200604R2_15

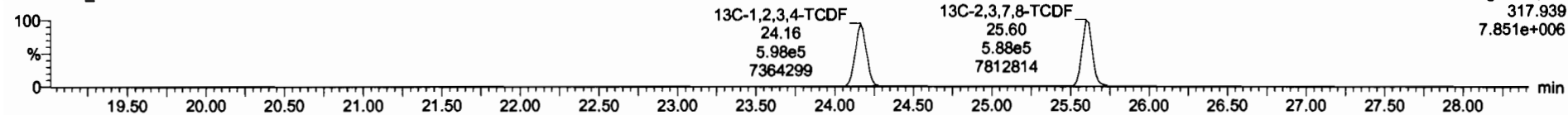


13C-2,3,7,8-TCDF

200604R2_15

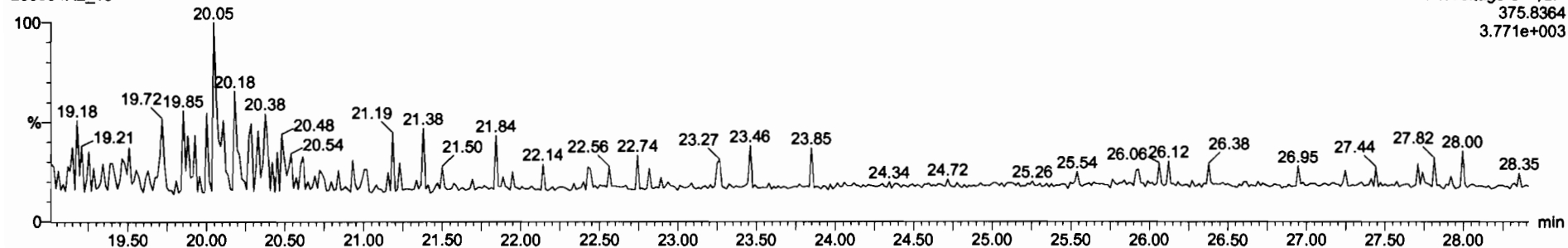


200604R2_15



DPE1

200604R2_15



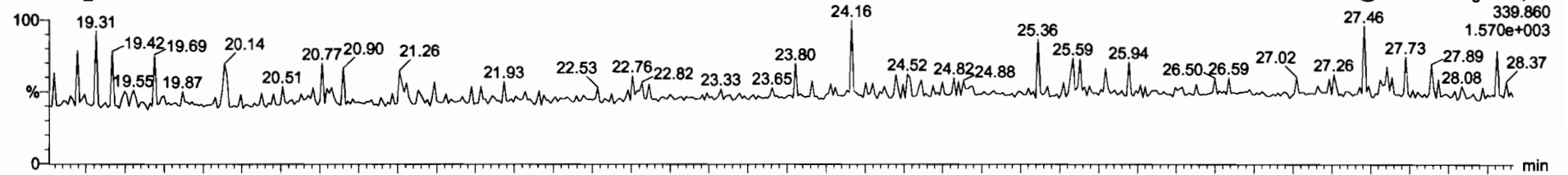
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Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

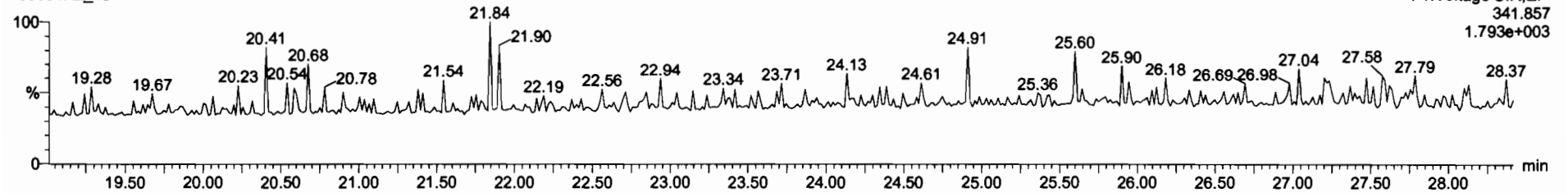
Name: 200604R2_15, Date: 05-Jun-2020, Time: 06:47:03, ID: 2000997-10 PDI-061SC-B-04-06-200428 15.2, Description: PDI-061SC-B-04-06-200428

1st Func. Penta-Furans

200604R2_15

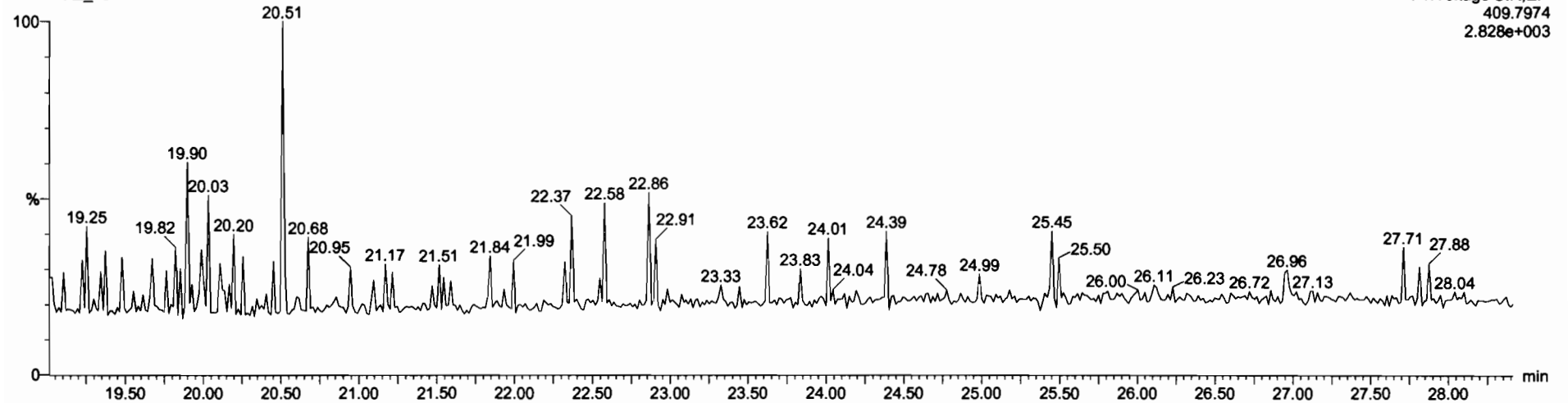


200604R2_15



DPE6

200604R2_15



Dataset: Untitled

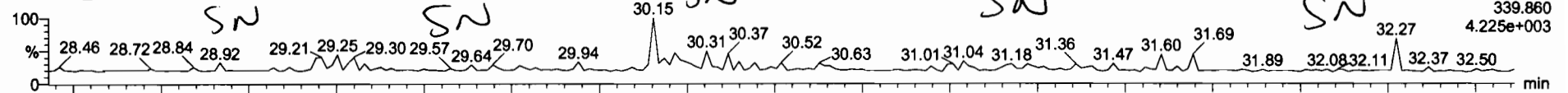
Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time

Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

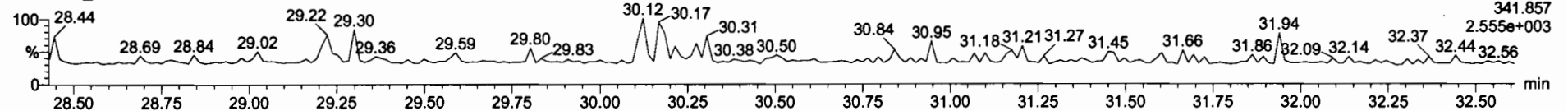
Name: 200604R2_15, Date: 05-Jun-2020, Time: 06:47:03, ID: 2000997-10 PDI-061SC-B-04-06-200428 15.2, Description: PDI-061SC-B-04-06-200428

1,2,3,7,8-PeCDF

200604R2_15

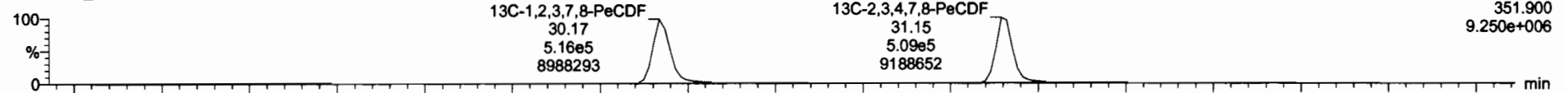


200604R2_15

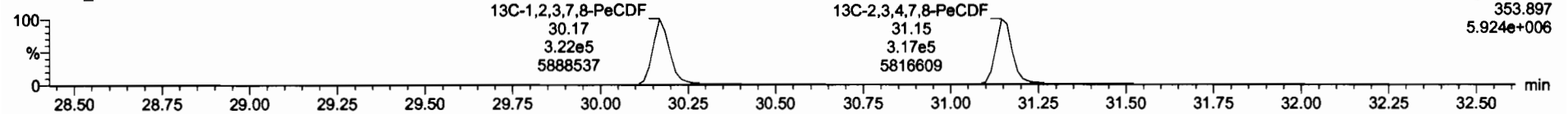


13C-1,2,3,7,8-PeCDF

200604R2_15

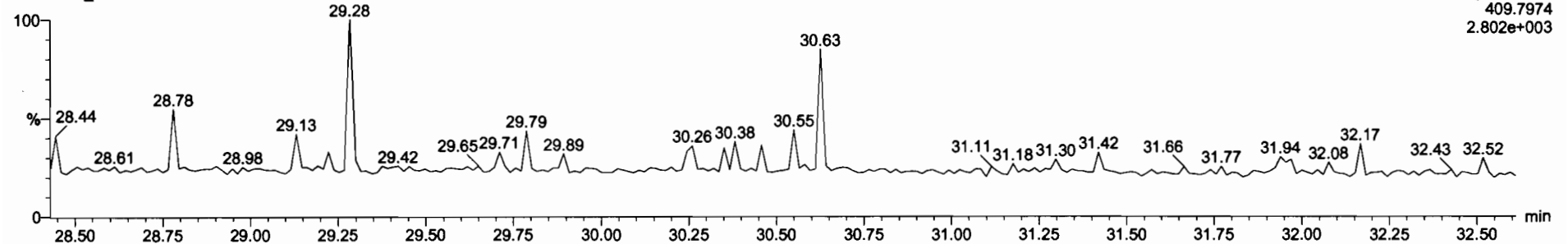


200604R2_15



DPE2

200604R2_15

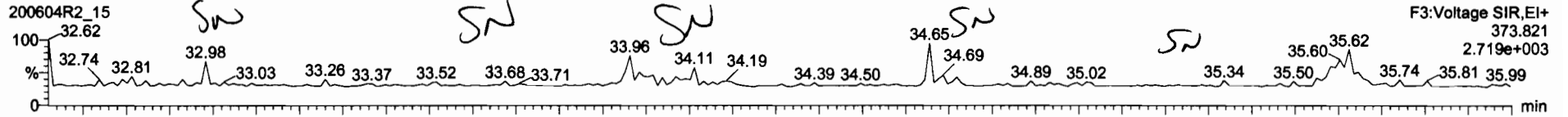


Dataset: Untitled

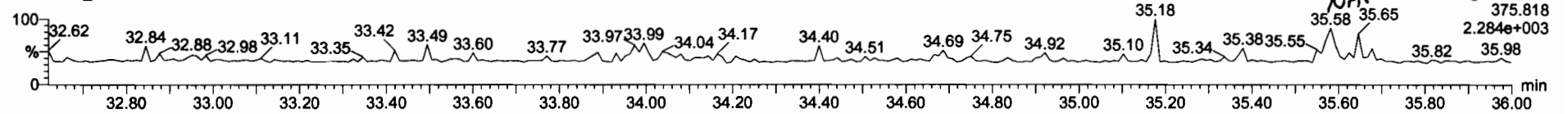
Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_15, Date: 05-Jun-2020, Time: 06:47:03, ID: 2000997-10 PDI-061SC-B-04-06-200428 15.2, Description: PDI-061SC-B-04-06-200428

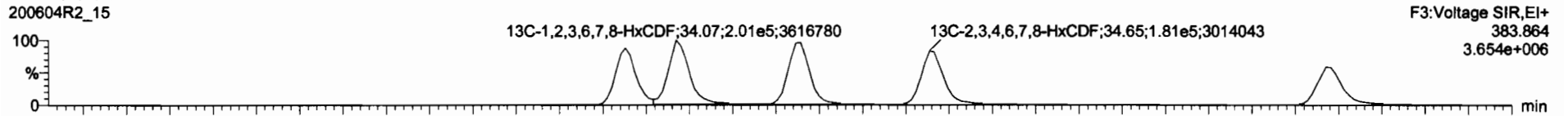
1,2,3,4,7,8-HxCDF



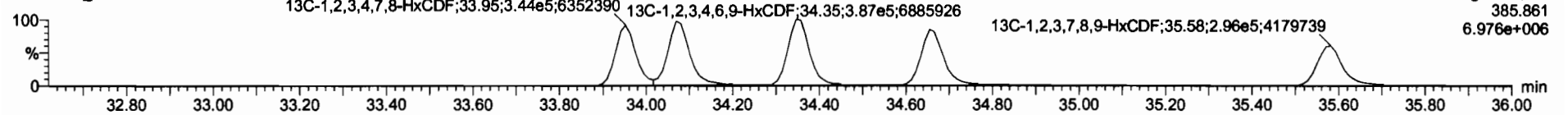
200604R2_15



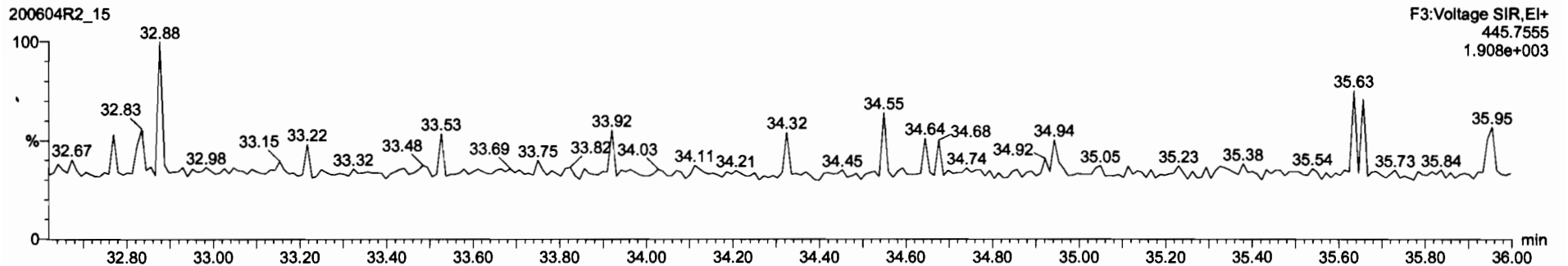
13C-1,2,3,4,7,8-HxCDF



200604R2_15



DPE3

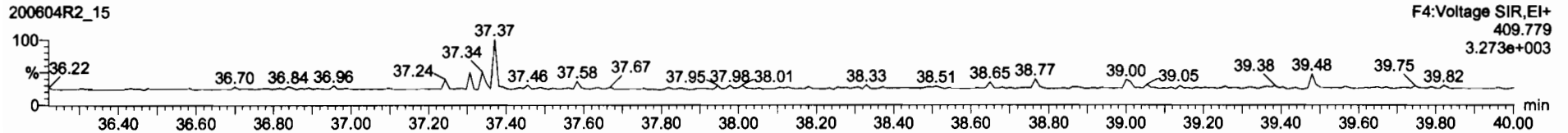
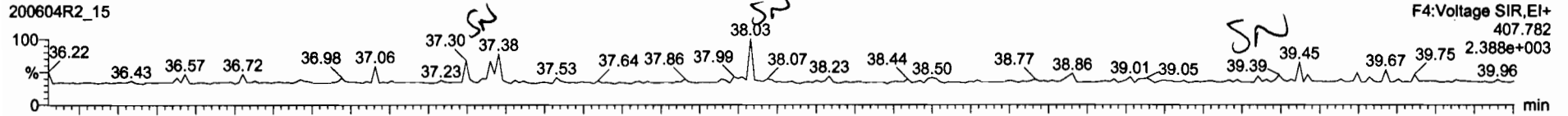


Dataset: Untitled

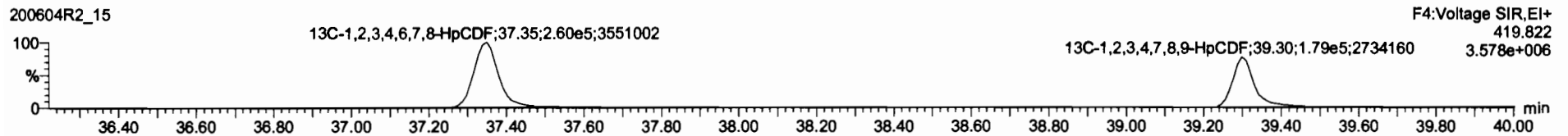
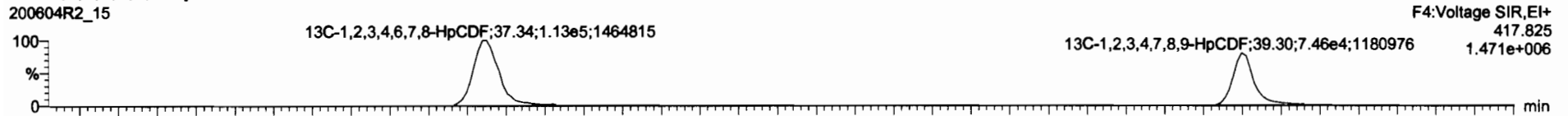
Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_15, Date: 05-Jun-2020, Time: 06:47:03, ID: 2000997-10 PDI-061SC-B-04-06-200428 15.2, Description: PDI-061SC-B-04-06-200428

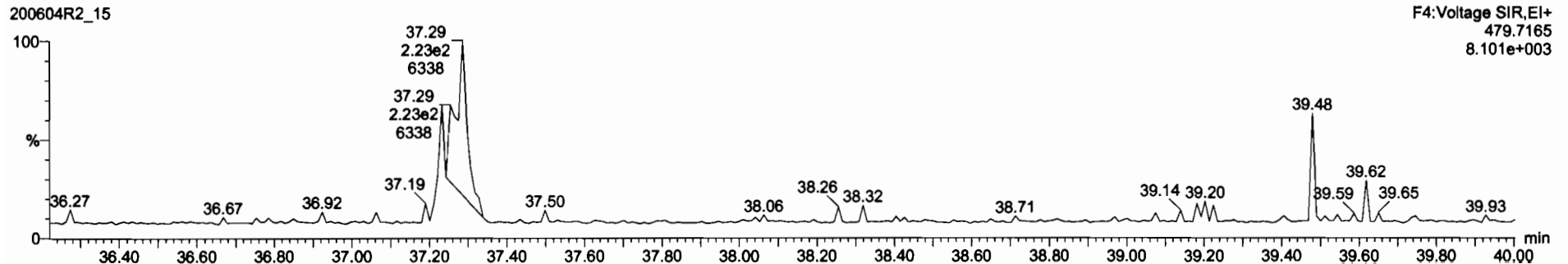
1,2,3,4,6,7,8-HpCDF



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



DPE4

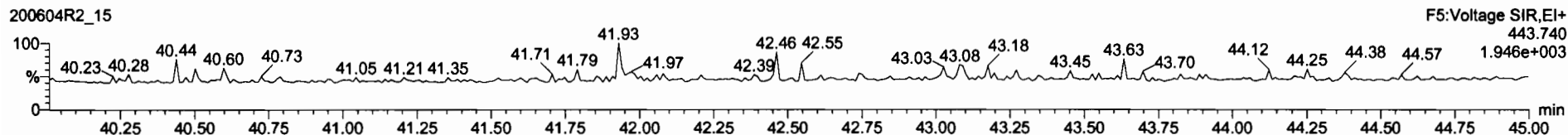
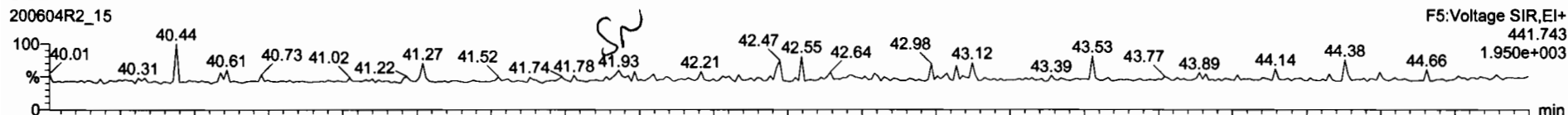


Dataset: Untitled

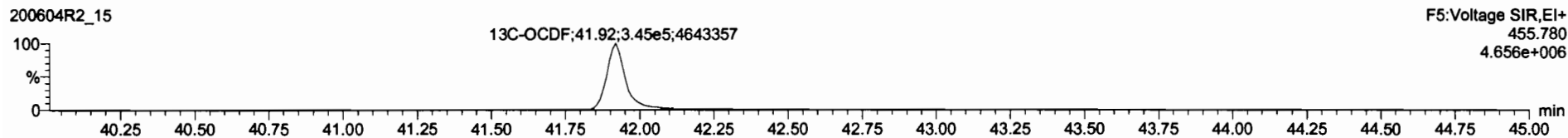
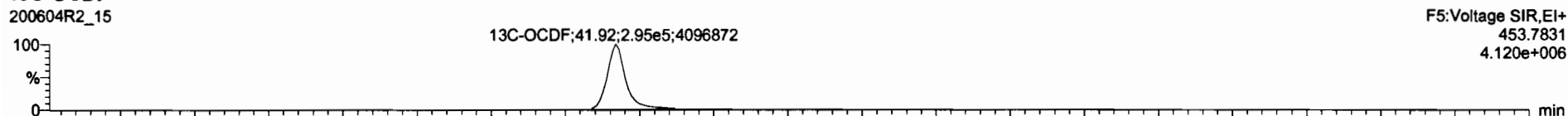
Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_15, Date: 05-Jun-2020, Time: 06:47:03, ID: 2000997-10 PDI-061SC-B-04-06-200428 15.2, Description: PDI-061SC-B-04-06-200428

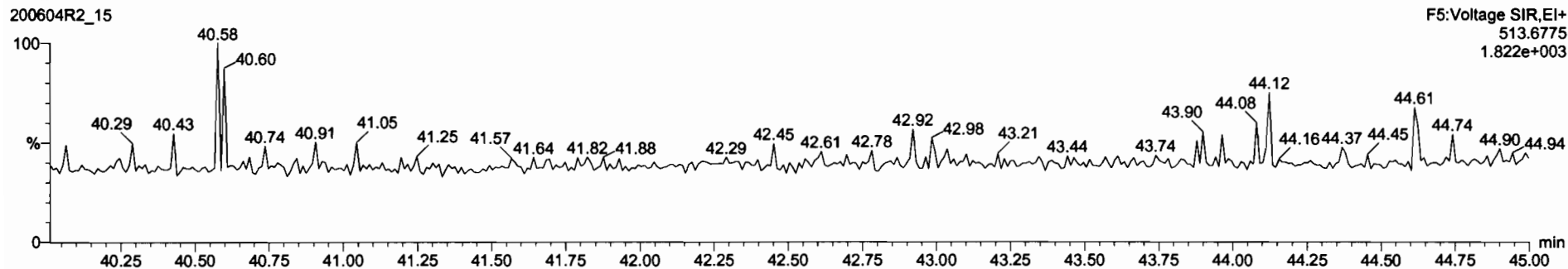
OCDF



13C-OCDF



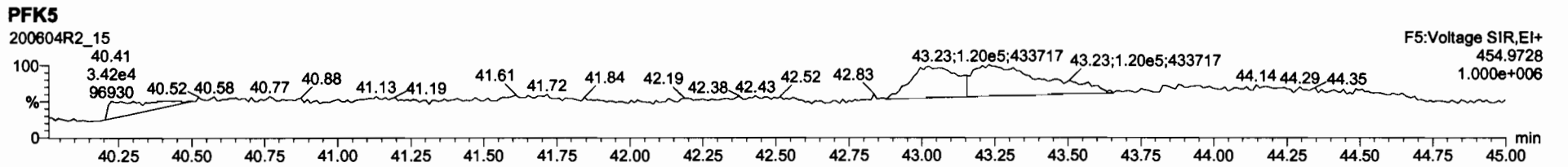
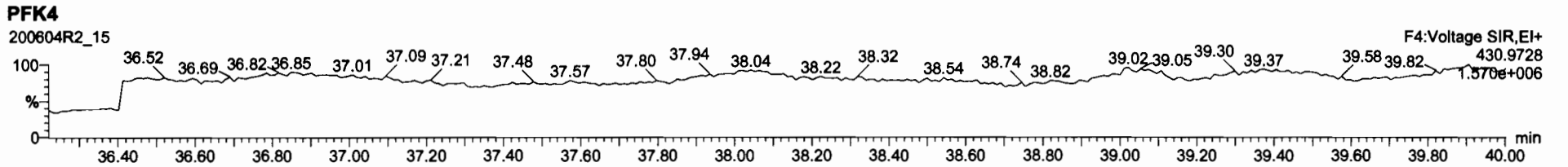
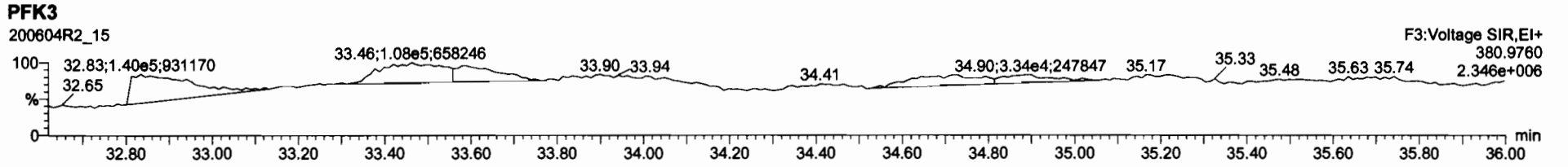
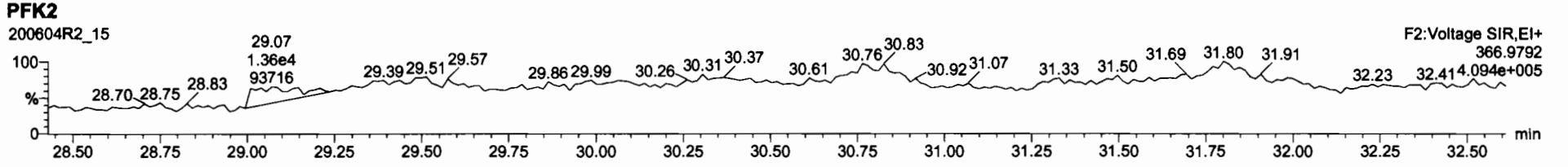
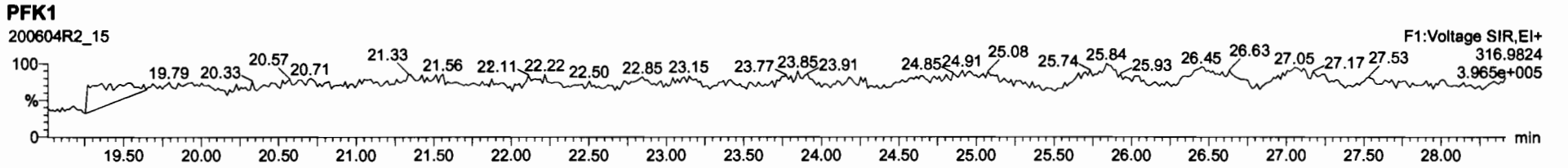
DPE5



Dataset: Untitled

Last Altered: Friday, June 05, 2020 08:34:46 Pacific Daylight Time
 Printed: Friday, June 05, 2020 08:36:12 Pacific Daylight Time

Name: 200604R2_15, Date: 05-Jun-2020, Time: 06:47:03, ID: 2000997-10 PDI-061SC-B-04-06-200428 15.2, Description: PDI-061SC-B-04-06-200428



Dataset: U:\VG12.PRO\Results\200605R2\200605R2-17.qld

Last Altered: Monday, June 08, 2020 09:26:37 Pacific Daylight Time

Printed: Monday, June 08, 2020 09:28:16 Pacific Daylight Time

GEB 06/08/2020

Method: Untitled 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\ddb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

07/08/2020

Name: 200605R2_17, Date: 06-Jun-2020, Time: 10:42:21, ID: 2000997-11 PDI-061SC-B-06-08-200428 14.52, Description: PDI-061SC-B-06-08-200428

Peak #	Retention Time (min)	Area	Height	Y/N	RF	RT	RT	RT	RT	RT	RT	RT	RT
1	2,3,7,8-TCDD	5.82e2	0.26	YES	0.888	10.032	26.515	26.50	1.001	1.001	0.13994	0.0716	0.0668
2	1,2,3,7,8-PeCDD			NO	0.908	10.032	31.473		1.001			0.0692	
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.032	34.836		1.000			0.0831	
4	1,2,3,6,7,8-HxCDD			NO	0.892	10.032	34.932		1.000			0.0859	
5	1,2,3,7,8,9-HxCDD			NO	0.887	10.032	35.220		1.000			0.0979	
6	1,2,3,4,6,7,8-HpCDD	1.17e3	0.89	NO	0.864	10.032	38.757	38.76	1.000	1.000	0.66534	0.120	0.665
7	OCDD	8.83e3	0.85	NO	0.914	10.032	41.727	41.74	1.000	1.000	5.6613	0.176	5.66
8	2,3,7,8-TCDF			NO	0.751	10.032	25.612		1.001			0.158	
9	1,2,3,7,8-PeCDF			NO	0.893	10.032	30.190		1.001			0.0301	
10	2,3,4,7,8-PeCDF			NO	0.935	10.032	31.177		1.001			0.0267	
11	1,2,3,4,7,8-HxCDF			NO	0.884	10.032	33.952		1.000			0.0365	
12	1,2,3,6,7,8-HxCDF			NO	0.889	10.032	34.079		1.000			0.0334	
13	2,3,4,6,7,8-HxCDF			NO	0.934	10.032	34.690		1.001			0.0361	
14	1,2,3,7,8,9-HxCDF			NO	0.871	10.032	35.571		1.000			0.0523	
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	10.032	37.376		1.001			0.0674	
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.032	39.288		1.000			0.0718	
17	OCDF			NO	0.806	10.032	41.919		1.000			0.0774	
18	13C-2,3,7,8-TCDD	9.34e5	0.78	NO	1.16	10.032	26.507	26.48	1.026	1.025	183.16	91.9	0.309
19	13C-1,2,3,7,8-PeCDD	7.00e5	0.63	NO	0.849	10.032	31.692	31.45	1.227	1.218	187.03	93.8	0.237
20	13C-1,2,3,4,7,8-HxCDD	4.75e5	1.29	NO	0.779	10.032	34.830	34.83	1.014	1.014	178.08	89.3	0.516
21	13C-1,2,3,6,7,8-HxCDD	6.00e5	1.25	NO	1.02	10.032	34.944	34.93	1.017	1.017	172.38	86.5	0.395
22	13C-1,2,3,7,8,9-HxCDD	5.32e5	1.23	NO	0.903	10.032	35.215	35.21	1.025	1.025	172.14	86.3	0.445
23	13C-1,2,3,4,6,7,8-HpCDD	4.05e5	1.06	NO	0.689	10.032	38.739	38.74	1.128	1.128	171.40	86.0	0.474
24	13C-OCDD	6.81e5	0.88	NO	0.652	10.032	41.761	41.73	1.216	1.215	304.71	76.4	0.644
25	13C-2,3,7,8-TCDF	1.17e6	0.77	NO	1.06	10.032	25.549	25.59	0.989	0.991	175.51	88.0	0.235
26	13C-1,2,3,7,8-PeCDF	1.00e6	1.60	NO	0.838	10.032	30.076	30.17	1.165	1.168	190.08	95.3	0.620
27	13C-2,3,4,7,8-PeCDF	9.97e5	1.57	NO	0.817	10.032	31.029	31.15	1.202	1.206	194.32	97.5	0.636
28	13C-1,2,3,4,7,8-HxCDF	6.21e5	0.50	NO	1.01	10.032	33.961	33.95	0.989	0.989	179.96	90.3	0.519
29	13C-1,2,3,6,7,8-HxCDF	6.96e5	0.50	NO	1.17	10.032	34.085	34.07	0.992	0.992	174.13	87.3	0.448
30	13C-2,3,4,6,7,8-HxCDF	6.29e5	0.50	NO	1.02	10.032	34.659	34.65	1.009	1.009	179.66	90.1	0.512
31	13C-1,2,3,7,8,9-HxCDF	5.23e5	0.47	NO	0.860	10.032	35.558	35.57	1.035	1.036	177.80	89.2	0.609

Dataset: U:\VG12.PRO\Results\200605R2\200605R2-17.qld

Last Altered: Monday, June 08, 2020 09:26:37 Pacific Daylight Time

Printed: Monday, June 08, 2020 09:28:16 Pacific Daylight Time

Name: 200605R2_17, Date: 06-Jun-2020, Time: 10:42:21, ID: 2000997-11 PDI-061SC-B-06-08-200428 14.52, Description: PDI-061SC-B-06-08-200428

32	13C-1,2,3,4,6,7,8-HpCDF	4.54e5	0.44	NO	0.774	10.032	37.307	37.34	1.086	1.087	171.31	85.9	0.460	
33	13C-1,2,3,4,7,8,9-HpCDF	3.09e5	0.43	NO	0.521	10.032	39.336	39.29	1.145	1.144	173.03	86.8	0.684	
34	13C-OCDF	7.57e5	0.91	NO	0.746	10.032	41.933	41.92	1.221	1.220	296.57	74.4	0.373	
35	37Cl-2,3,7,8-TCDD	3.62e5			1.04	10.032	26.538	26.50	1.028	1.026	79.093	99.2	0.0546	
36	13C-1,2,3,4-TCDD	8.79e5	0.79	NO	1.00	10.032	25.890	25.83	1.000	1.000	199.36	100	0.357	
37	13C-1,2,3,4-TCDF	1.25e6	0.77	NO	1.00	10.032	24.360	24.15	1.000	1.000	199.36	100	0.249	
38	13C-1,2,3,4,6,9-HxCDF	6.83e5	0.51	NO	1.00	10.032	34.420	34.35	1.000	1.000	199.36	100	0.523	
39	Total Tetra-Dioxins				0.888	10.032	24.620		0.000		0.21798		0.0716	0.285
40	Total Penta-Dioxins				0.908	10.032	29.960		0.000		0.00000		0.0263	0.0896
41	Total Hexa-Dioxins				0.892	10.032	33.635		0.000		0.79913		0.0927	0.799
42	Total Hepta-Dioxins				0.864	10.032	37.640		0.000		1.7416		0.120	1.74
43	Total Tetra-Furans				0.751	10.032	23.610		0.000		0.13359		0.158	0.134
44	1st Func. Penta-Furans				0.893	10.032	27.580		0.000				0.0347	
45	Total Penta-Furans				0.893	10.032	29.275		0.000				0.0153	
46	Total Hexa-Furans				0.934	10.032	33.555		0.000				0.0190	
47	Total Hepta-Furans				0.873	10.032	37.835		0.000				0.0357	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200605R2\200605R2-17.qld

Last Altered: Monday, June 08, 2020 09:26:37 Pacific Daylight Time

Printed: Monday, June 08, 2020 09:28:16 Pacific Daylight Time

Method: Untitled 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200605R2_17, Date: 06-Jun-2020, Time: 10:42:21, ID: 2000997-11 PDI-061SC-B-06-08-200428 14.52, Description: PDI-061SC-B-06-08-200428

Tetra-Dioxins

	Area	Height	m2 Height	m1	Area	Height	NO	Area	Area	Area	Area
Total Tetra-Dioxins	24.36	7.425e3	6.539e3	4.207e2	4.866e2	0.86	NO	9.073e2	0.21798	0.21798	0.0716
2,3,7,8-TCDD	26.50	3.323e3	8.325e3	1.209e2	4.616e2	0.26	YES	5.825e2	0.00000	0.066765	0.0716

Penta-Dioxins

Total Penta-Dioxins	29.73	1.718e3	4.676e3	1.104e2	2.587e2	0.43	YES	0.000e0	0.00000	0.069563	0.0263
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Hexa-Dioxins

Total Hexa-Dioxins	33.33	1.307e4	1.279e4	6.484e2	5.336e2	1.22	NO	1.182e3	0.49279	0.49279	0.0927
Total Hexa-Dioxins	34.14	6.867e3	5.397e3	4.112e2	3.236e2	1.27	NO	7.348e2	0.30634	0.30634	0.0927

Hepta-Dioxins

Total Hepta-Dioxins	37.74	1.842e4	1.375e4	1.006e3	8.811e2	1.14	NO	1.887e3	1.0762	1.0762	0.120
1,2,3,4,6,7,8-HpCDD	38.76	9.001e3	8.582e3	5.503e2	6.163e2	0.89	NO	1.167e3	0.66534	0.66534	0.120

Tetra-Furans

Total Tetra-Furans	21.51	2.596e3	4.499e3	2.464e2	3.413e2	0.72	NO	5.876e2	0.13359	0.13359	0.158
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Penta-Furans function 1

	Area	Height	m2 Height	m1	Area	Height	NO	Area	Area	Area	Area

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Printed: Monday, June 08, 2020 09:28:16 Pacific Daylight Time

Name: 200605R2_17, Date: 06-Jun-2020, Time: 10:42:21, ID: 2000997-11 PDI-061SC-B-06-08-200428 14.52, Description: PDI-061SC-B-06-08-200428

Penta-Furans

Retention Time (min)	Height	m/z	Height
[REDACTED]			

Hexa-Furans

Retention Time (min)	Height	m/z	Height	m/z	Height
[REDACTED]					

Hepta-Furans

Retention Time (min)	Height	m/z	Height
[REDACTED]			

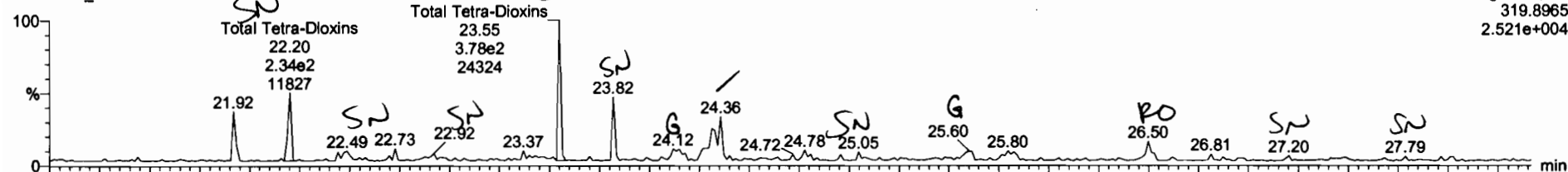
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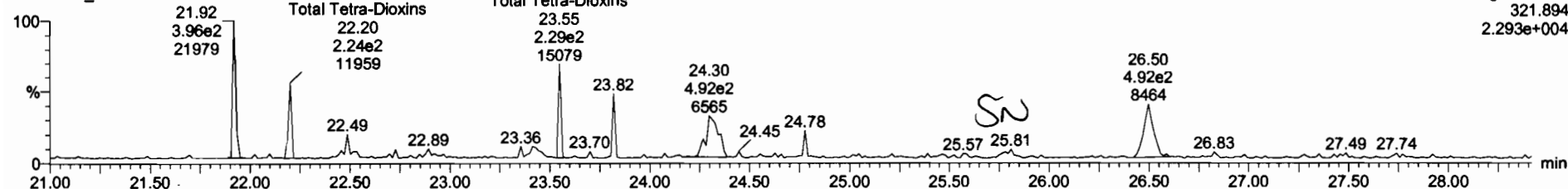
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2,3,7,8-TCDD

200605R2_17

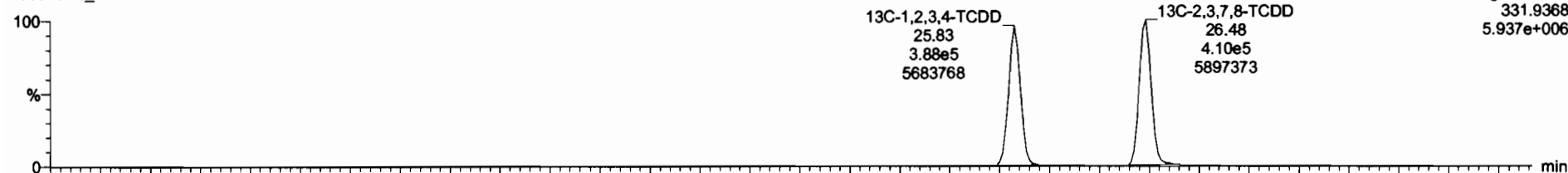


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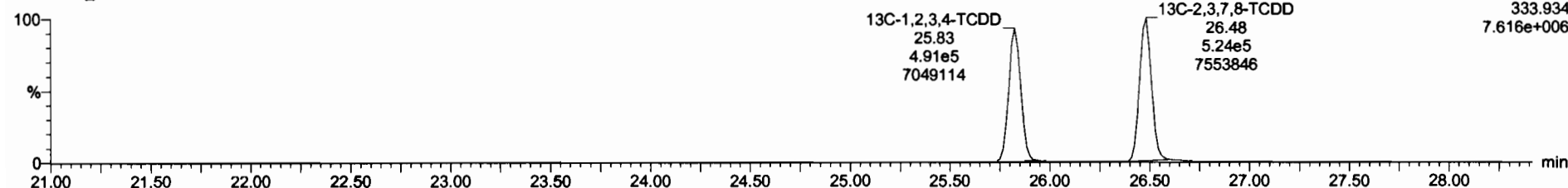


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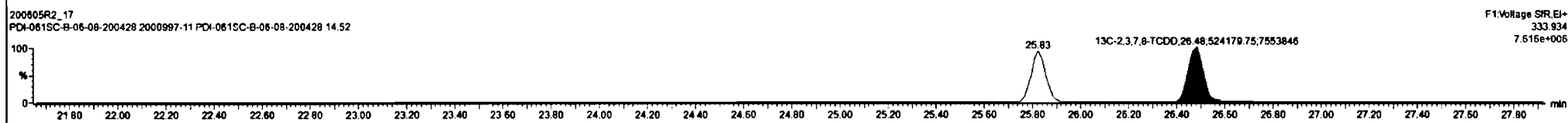
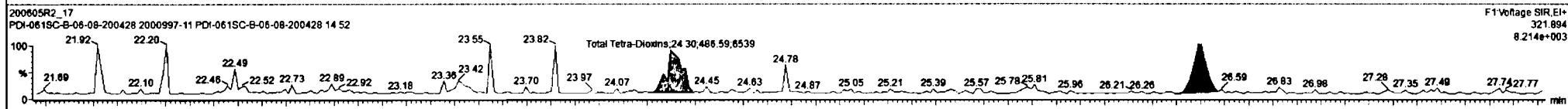
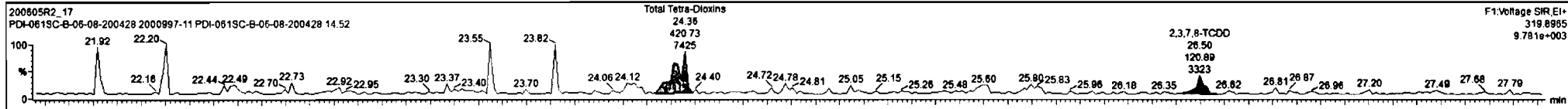
200605R2_17



200605R2_17



Total Penta-Dioxins	0.9081	10.032	0.000	0.0263	0.0900
Total Hexa-Dioxins	0.8823	10.032	0.799	0.0927	0.799
Total Hepta-Dioxins	0.8639	10.032	1.74	0.120	1.74
Total Tetra-Furans	0.7510	10.032	0.134	0.158	0.134
1st Func. Penta-Furans	0.8825	10.032		0.0347	
Total Penta-Furans	0.8825	10.032		0.0153	
Total Hexa-Furans	0.9341	10.032		0.0190	
Total Hepta-Furans	0.8734	10.032		0.0357	
PFK1					
PFK2					
PFK3					
PFK4					
PFK5					
DPE1					
DPE2					
DPE3					
DPE4					
DPE5					
none					



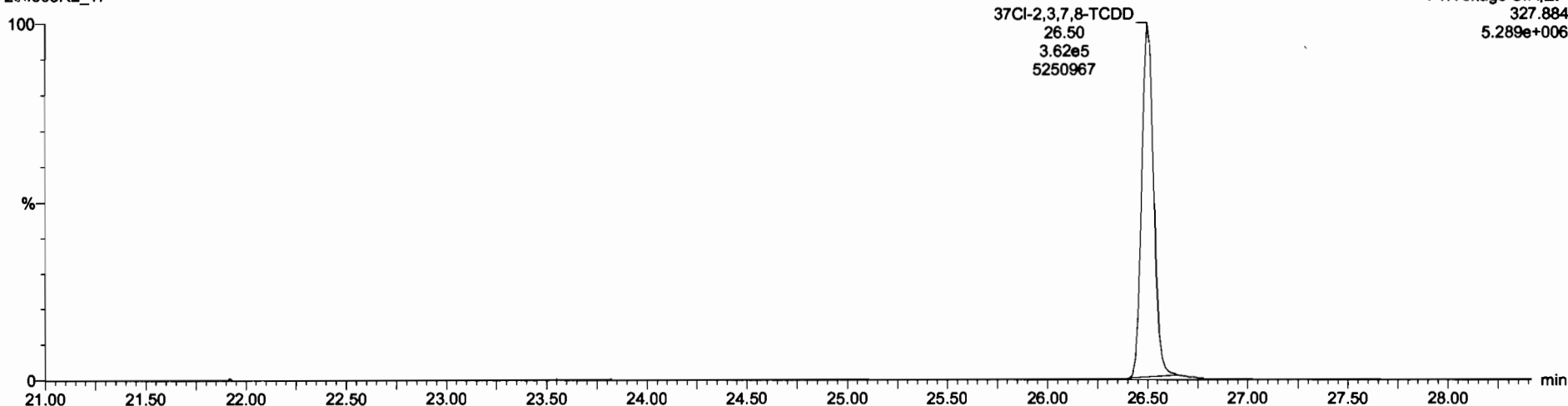
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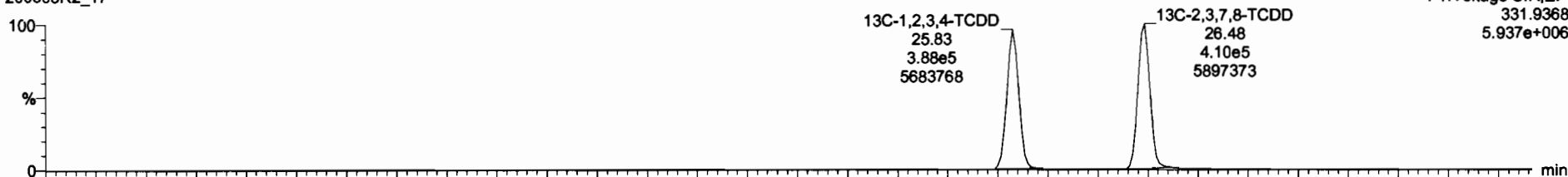
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200605R2_17

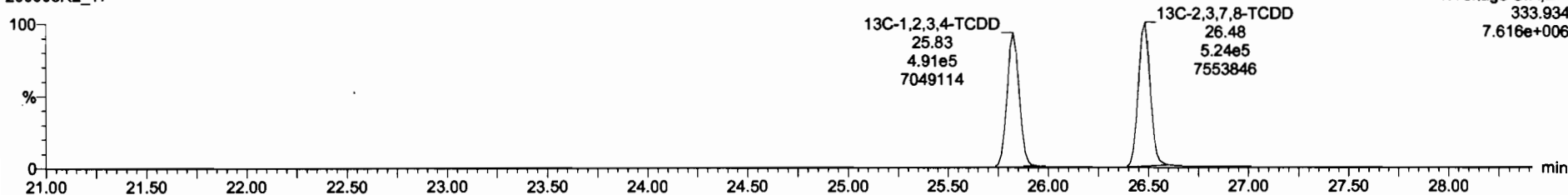


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200605R2_17



200605R2_17



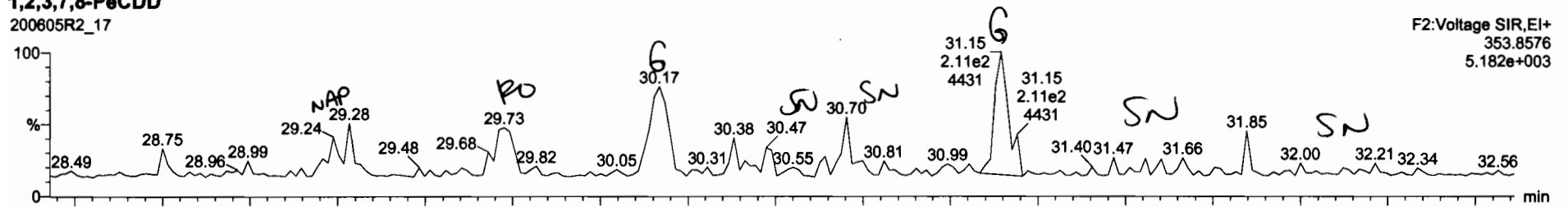
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Printed: Sunday, June 07, 2020 08:17:58 Pacific Daylight Time

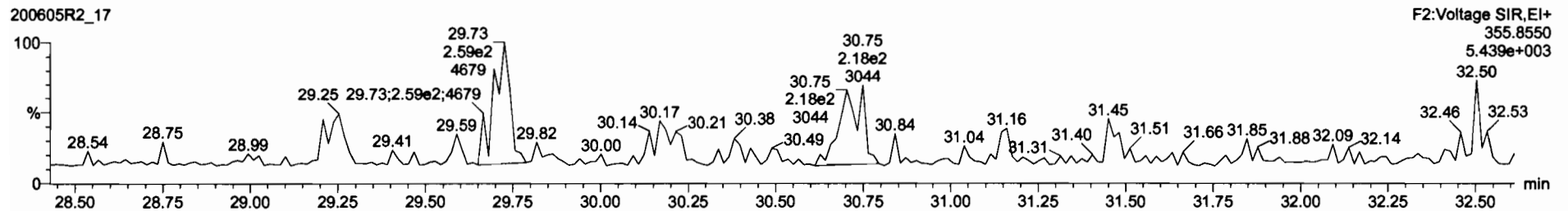
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1,2,3,7,8-PeCDD

200605R2_17

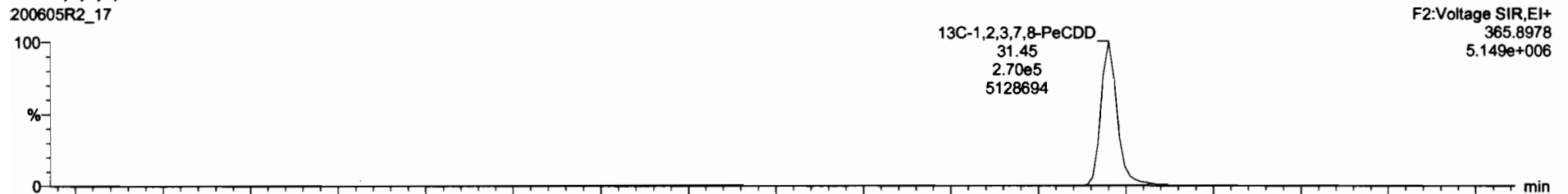


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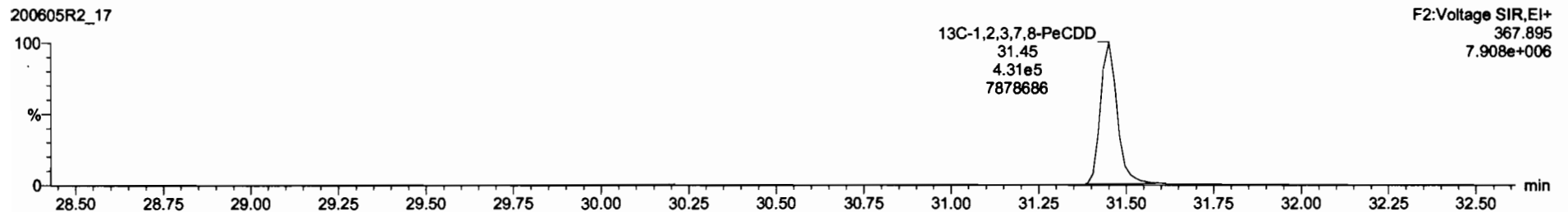


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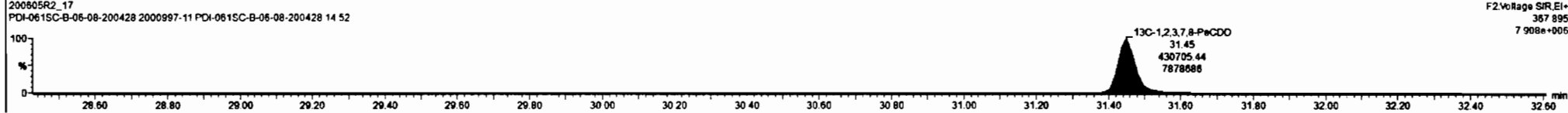
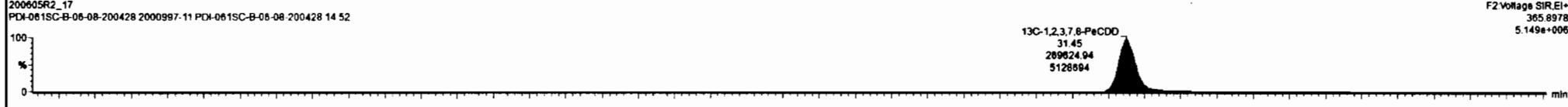
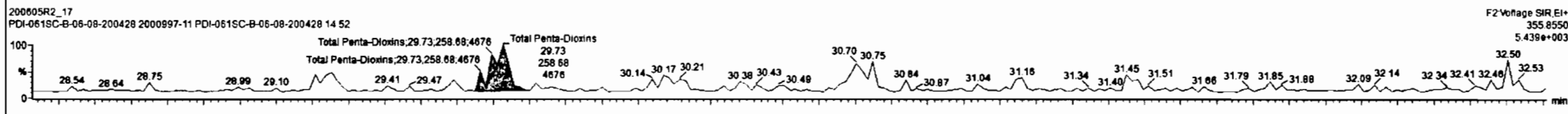
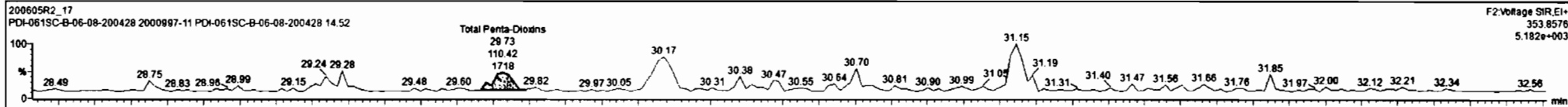
200605R2_17



200605R2_17



Concentration	Area	Height	Width	Area%	Height%	Width%
Total Tetra-Dioxins	0.8883	10.032		0.218	0.0718	0.265
Total Hexa-Dioxins	0.8823	10.032		0.790	0.0927	0.799
Total Hepta-Dioxins	0.8639	10.032		1.74	0.129	1.74
Total Tetra-Furans	0.7510	10.032		0.134	0.158	0.134
1st Func. Penta-Furans	0.8825	10.032			0.0347	
Total Penta-Furans	0.8825	10.032			0.0153	
Total Hexa-Furans	0.9341	10.032			0.0190	
Total Hepta-Furans	0.8734	10.032			0.0357	
PFK1						
PFK2						
PFK3						
PFK4						
PFK5						
DPE1						
DPE2						
DPE3						
DPE4						
DPE5						
None						



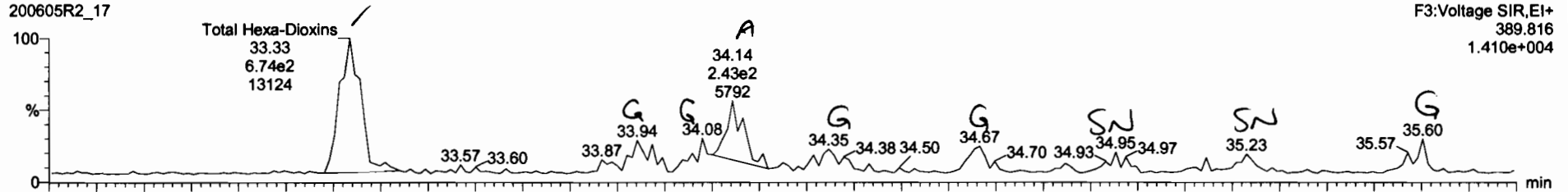
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Printed: Sunday, June 07, 2020 08:17:58 Pacific Daylight Time

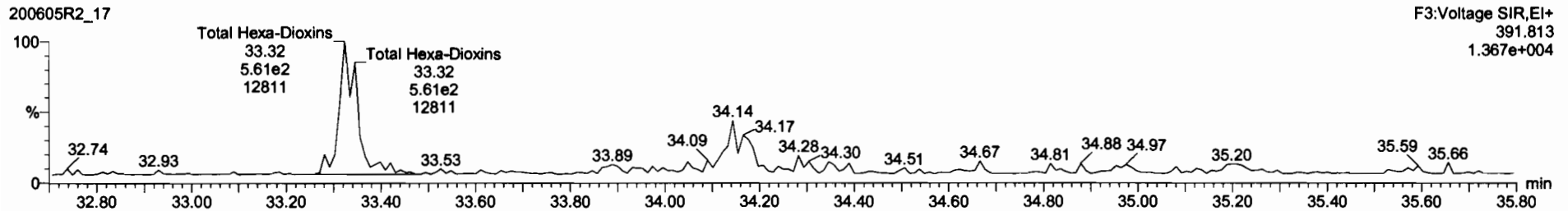
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1,2,3,4,7,8-HxCDD

200605R2_17

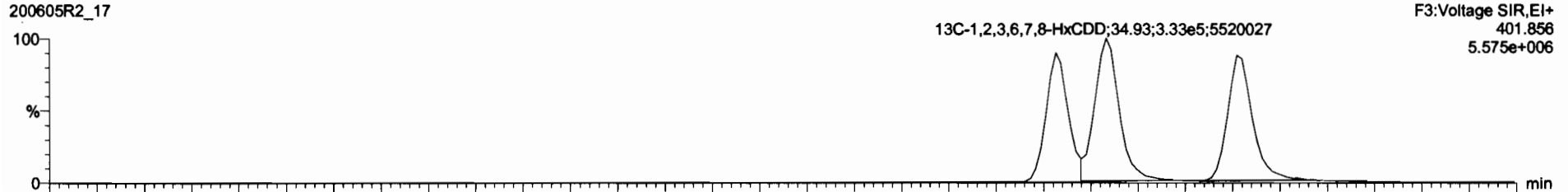


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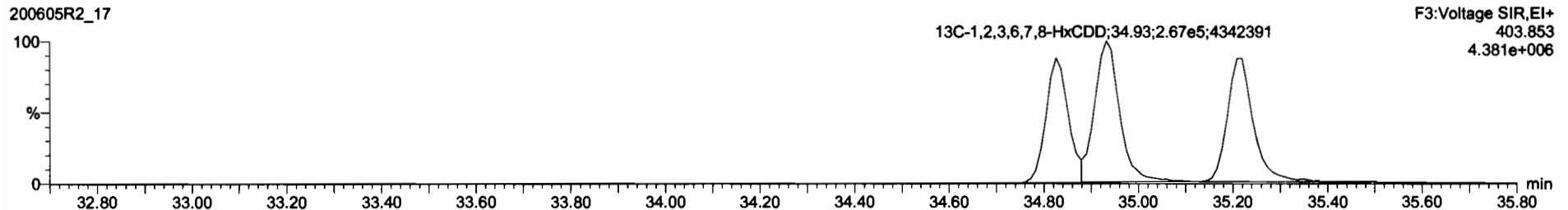


13C-1,2,3,4,7,8-HxCDD

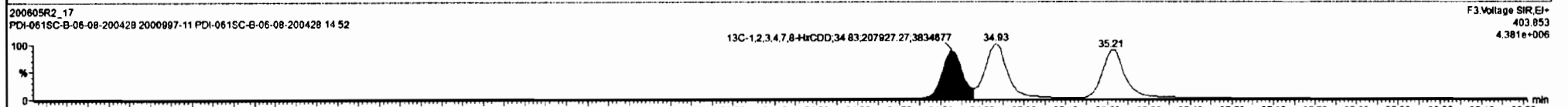
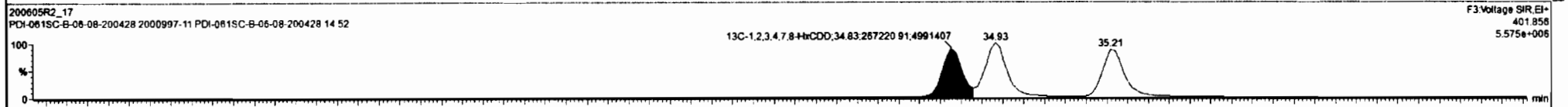
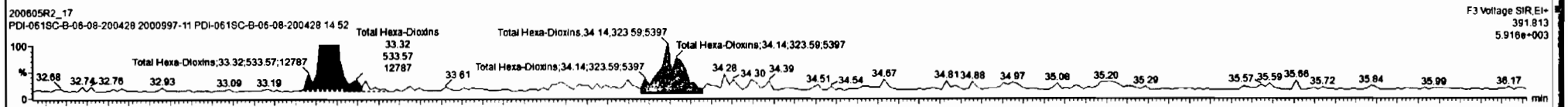
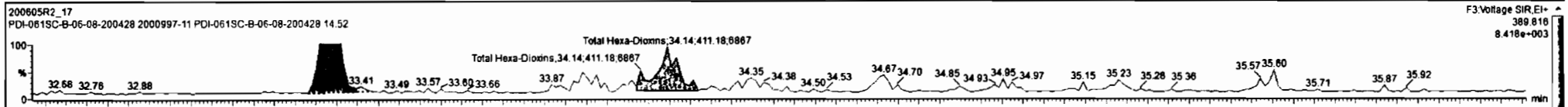
200605R2_17



200605R2_17



	CONC	UNIT	CONC	UNIT	CONC	UNIT
Total Tetra-Dioxins	0.8883	10.032			0.218	0.0716 0.285
Total Penta-Dioxins	0.9081	10.032			0.000	0.0263 0.0900
Total Hepta-Dioxins	0.8630	10.032			1.74	0.120 1.74
Total Tetra-Furans	0.7510	10.032			0.134	0.158 0.134
1st Func. Penta-Furans	0.8825	10.032				0.0347
Total Penta-Furans	0.8825	10.032				0.0153
Total Hexa-Furans	0.9341	10.032				0.0190
Total Hepta-Furans	0.8734	10.032				0.0357
PFK1						
PFK2						
PFK3						
PFK4						
PFK5						
DPE1						
DPE2						
DPE3						
DPE4						
DPE5						
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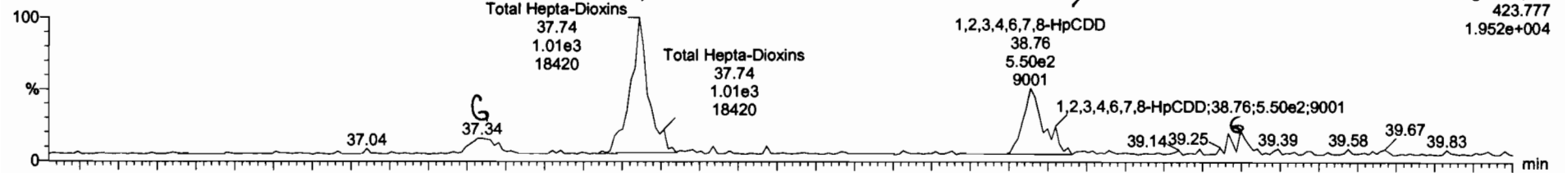
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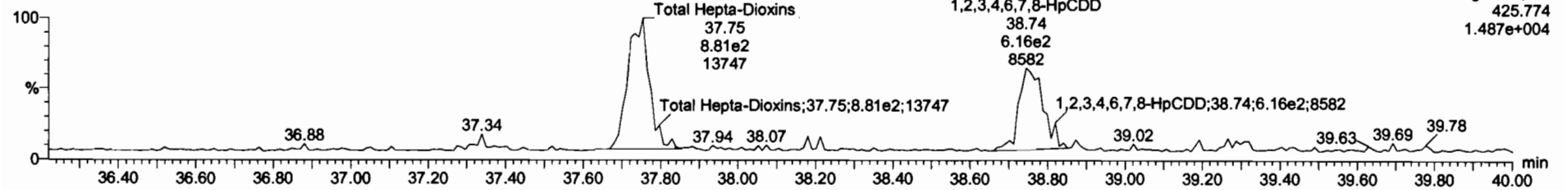
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1,2,3,4,6,7,8-HpCDD

200605R2_17

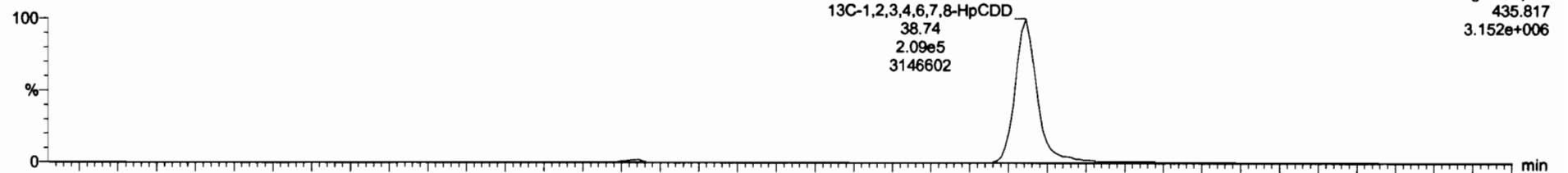


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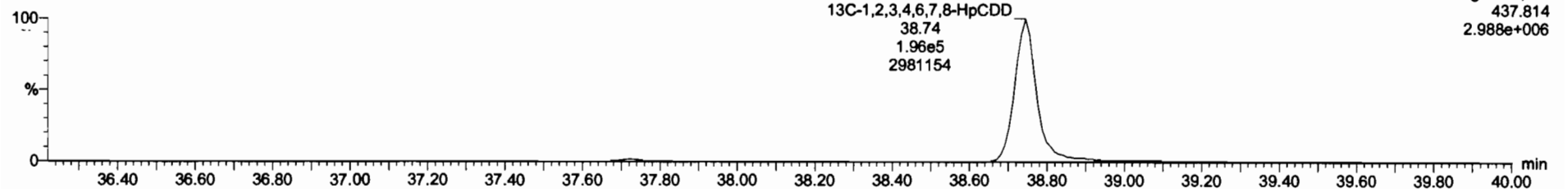


13C-1,2,3,4,6,7,8-HpCDD

200605R2_17



200605R2_17

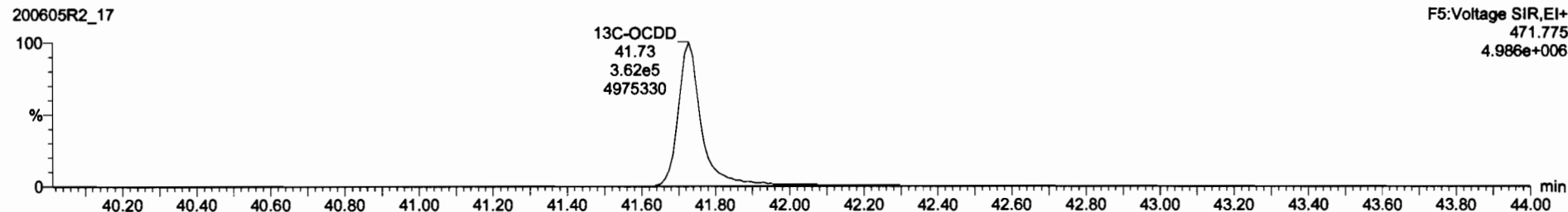
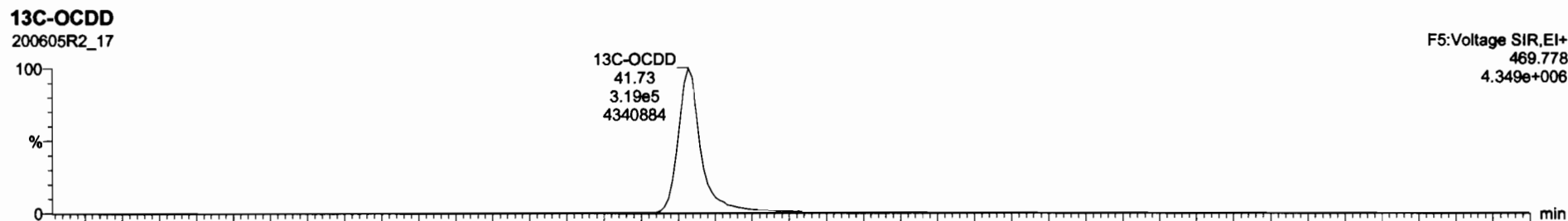
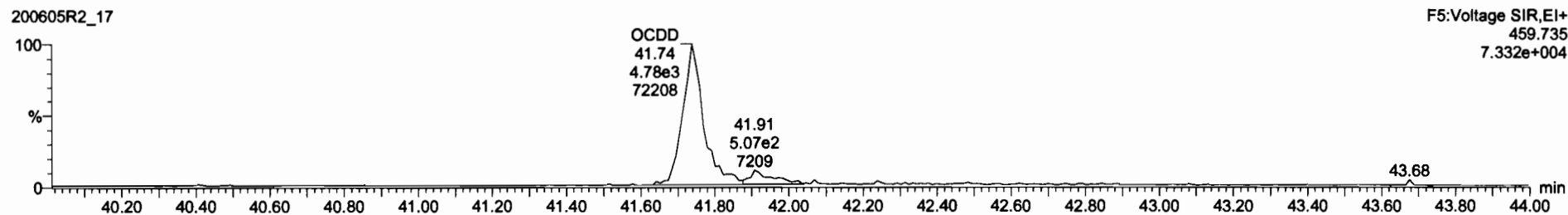
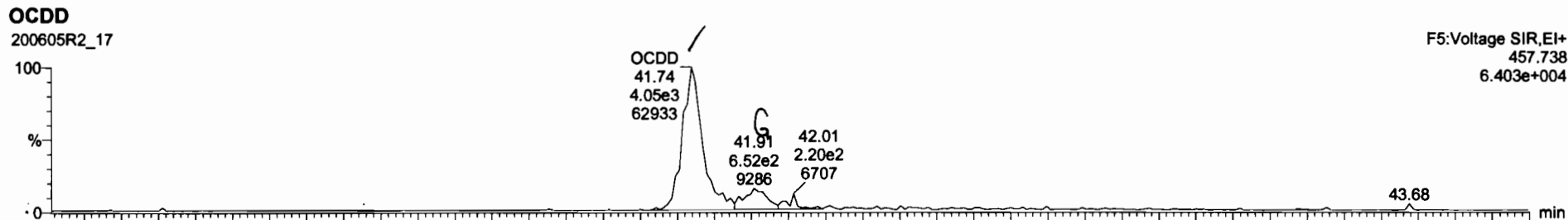


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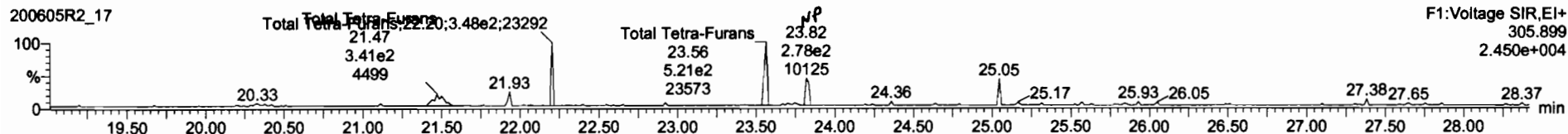
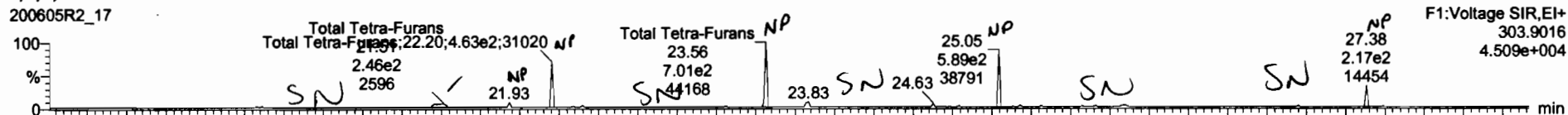


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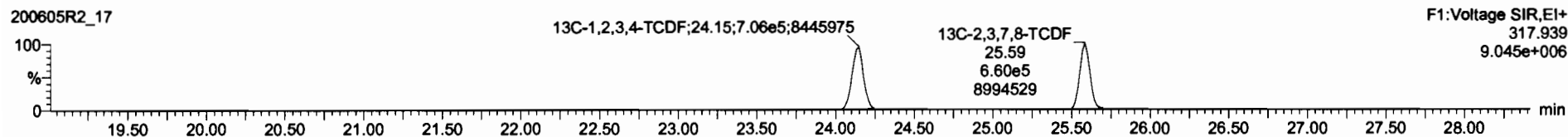
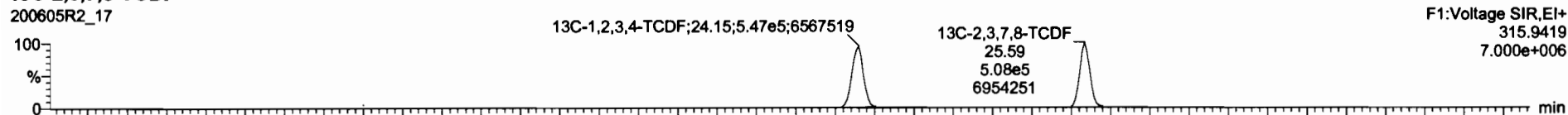
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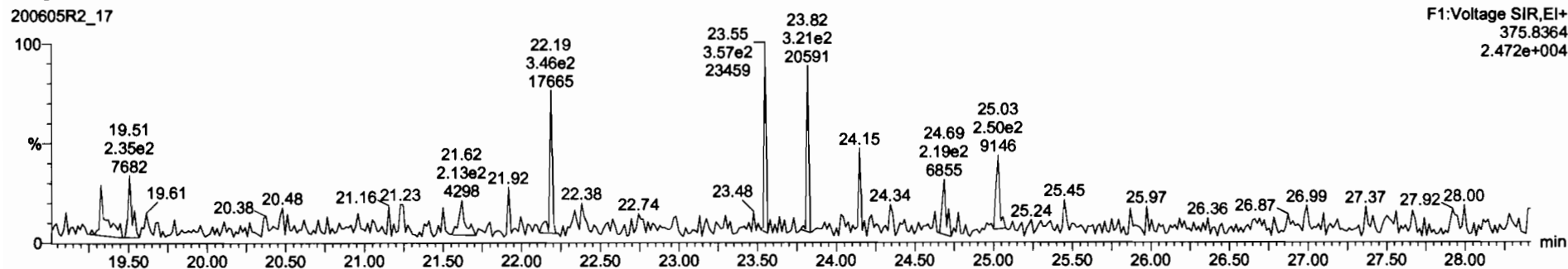
2,3,7,8-TCDF



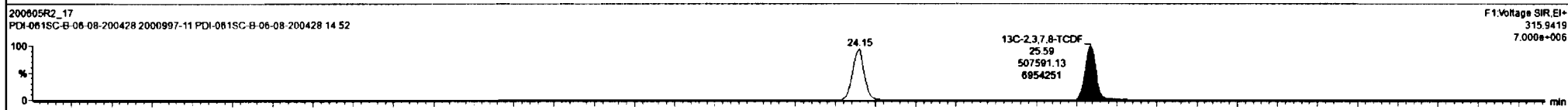
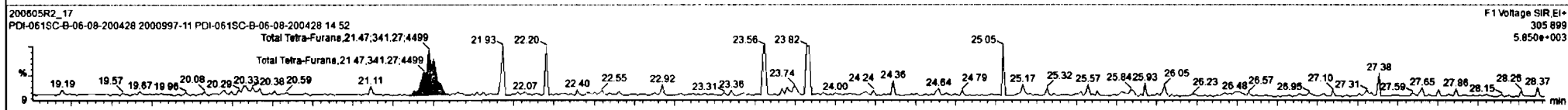
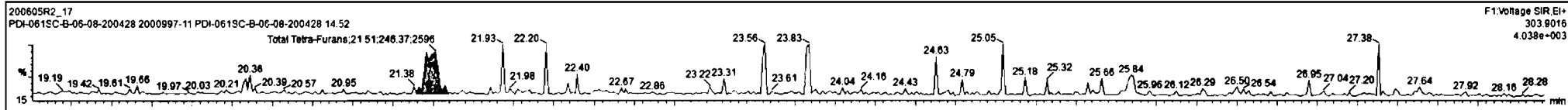
13C-2,3,7,8-TCDF



DPE1



	Area	Time	Conc.	Wt%	DL	RePC
Total Tetra-Dioxins	0.8883	10.032	0.218	0.0716	0.285	
Total Penta-Dioxins	0.9081	10.032	0.000	0.0263	0.0900	
Total Hexa-Dioxins	0.8823	10.032	0.799	0.0927	0.799	
Total Hepta-Dioxins	0.8639	10.032	1.74	0.120	1.74	
1st Func. Penta-Furans	0.8825	10.032		0.0347		
Total Penta-Furans	0.8825	10.032		0.0153		
Total Hexa-Furans	0.9341	10.032		0.0190		
Total Hepta-Furans	0.8734	10.032		0.0357		
PFK1						
PFK2						
PFK3						
PFK4						
PFK5						
DPE1						
DPE2						
DPE3						
DPE4						
DPE5						
None						



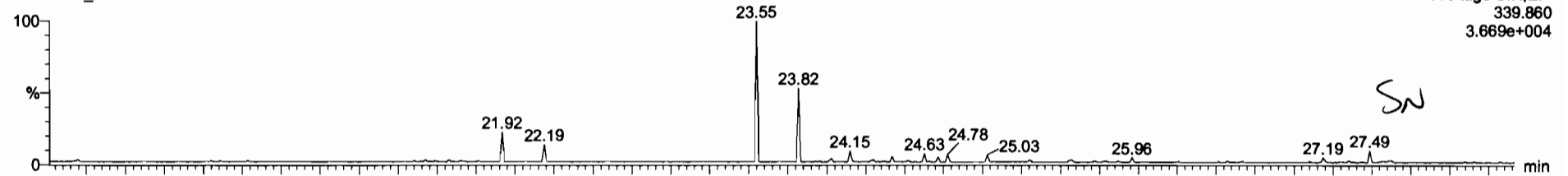
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Name: 200605R2_17, Date: 06-Jun-2020, Time: 10:42:21, ID: 2000997-11 PDI-061SC-B-06-08-200428 14.52, Description: PDI-061SC-B-06-08-200428

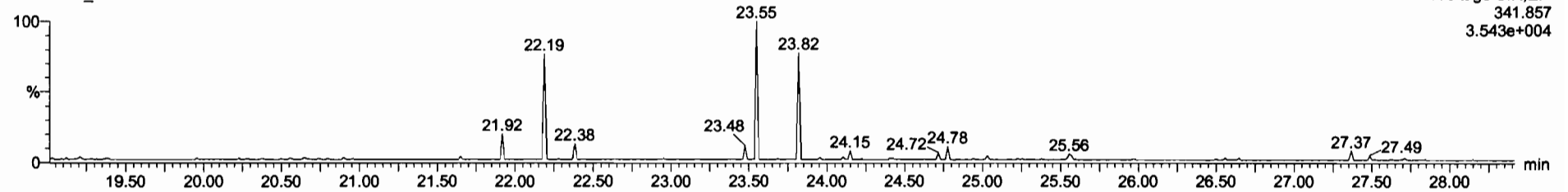
1st Func. Penta-Furans

200605R2_17



F1:Voltage SIR,EI+
339.860
3.669e+004

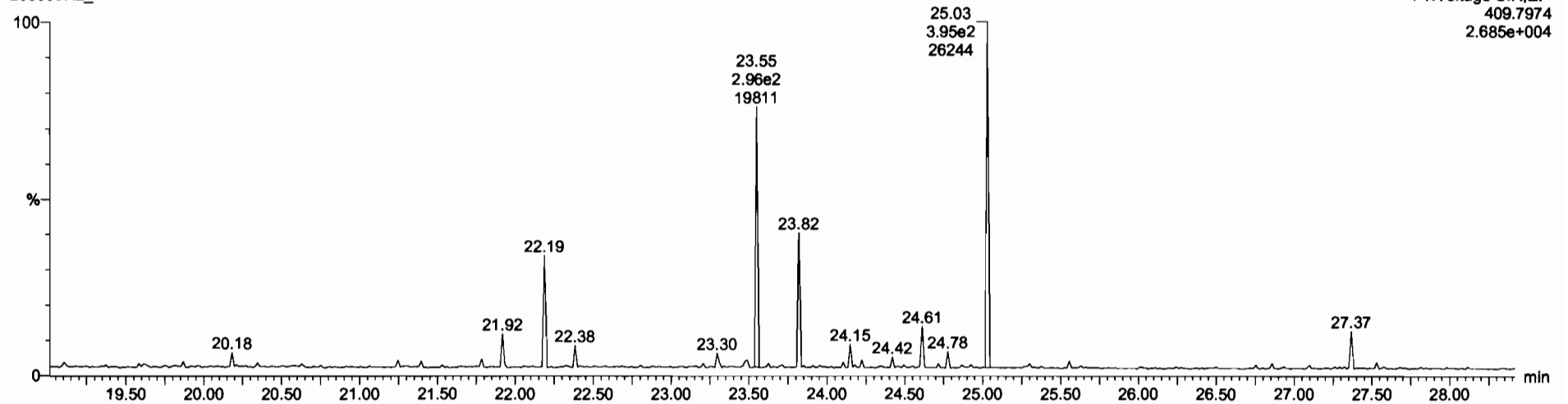
200605R2_17



F1:Voltage SIR,EI+
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DPE6

200605R2_17



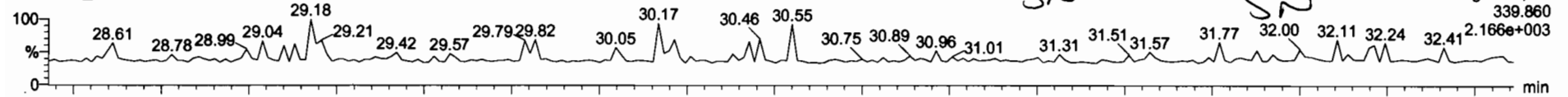
F1:Voltage SIR,EI+
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2.685e+004

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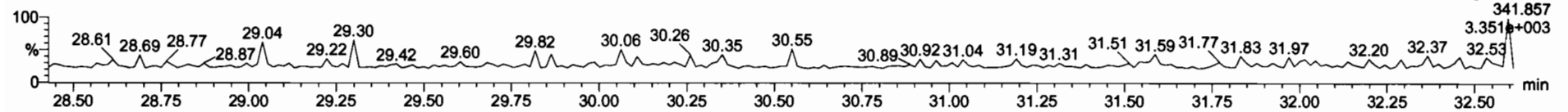
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1,2,3,7,8-PeCDF
200605R2_17

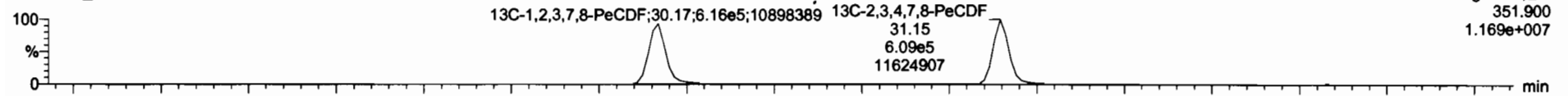


200605R2_17

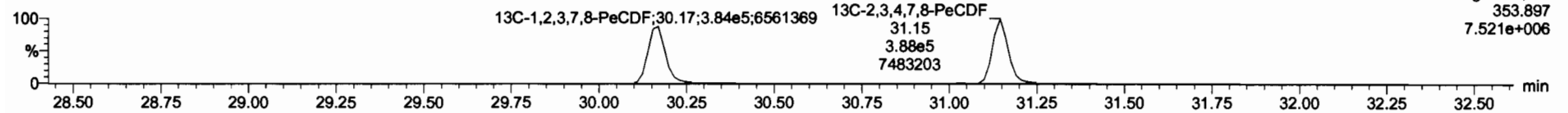


13C-1,2,3,7,8-PeCDF

200605R2_17

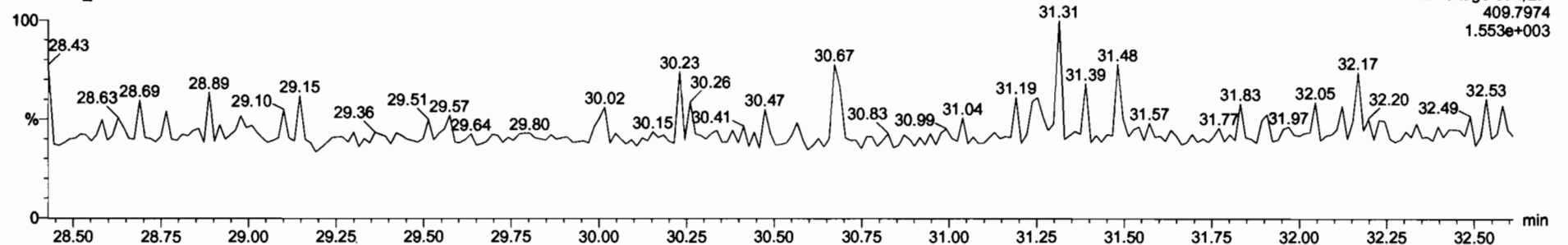


200605R2_17



DPE2

200605R2_17

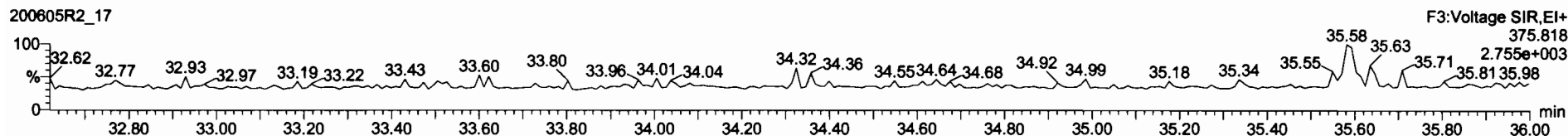
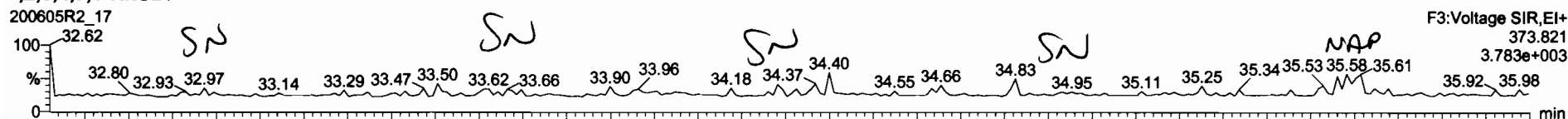


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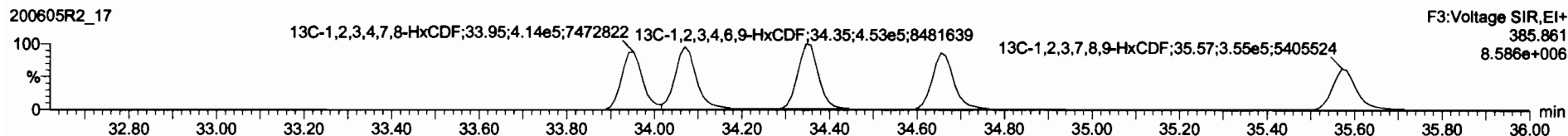
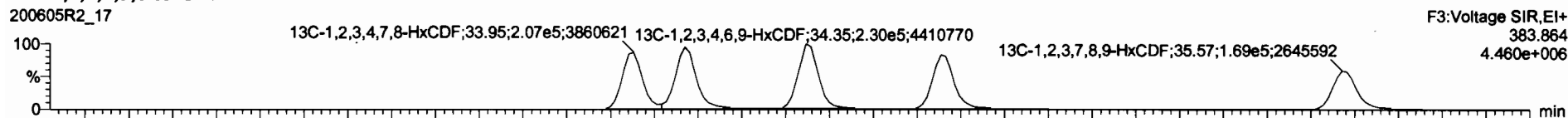
Last Altered: Sunday, June 07, 2020 08:15:38 Pacific Daylight Time
Printed: Sunday, June 07, 2020 08:17:58 Pacific Daylight Time

Name: 200605R2_17, Date: 06-Jun-2020, Time: 10:42:21, ID: 2000997-11 PDI-061SC-B-06-08-200428 14.52, Description: PDI-061SC-B-06-08-200428

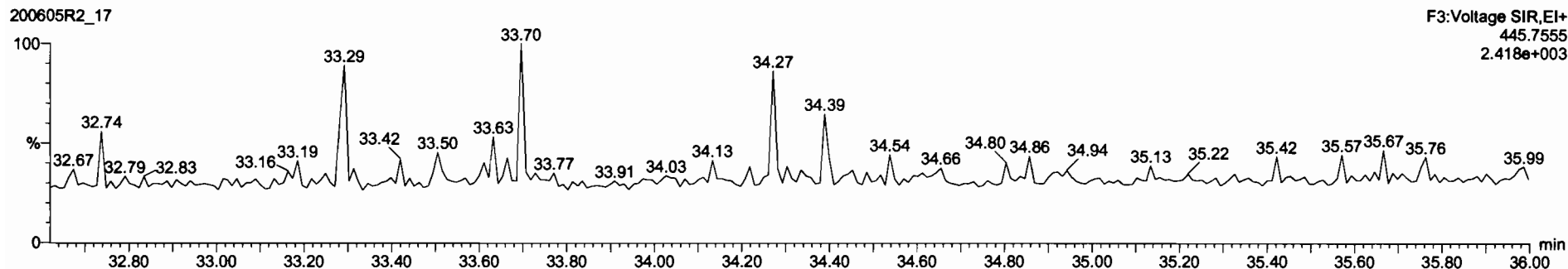
1,2,3,4,7,8-HxCDF



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



DPE3



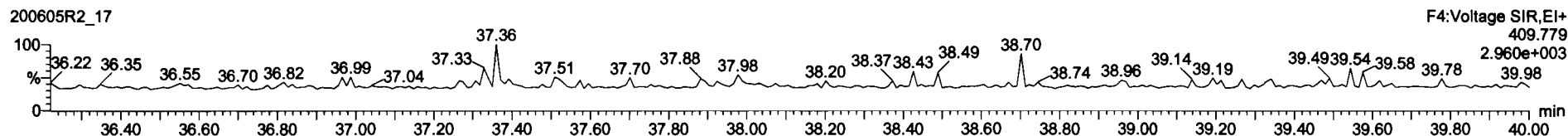
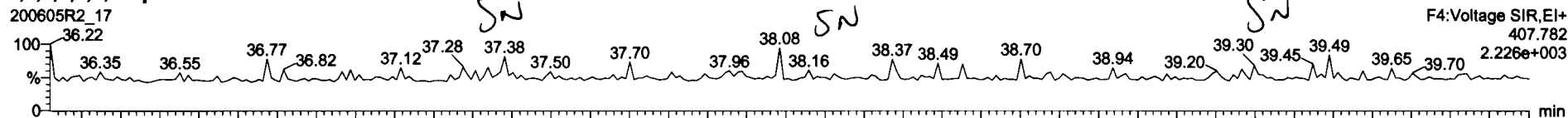
Dataset: Untitled

Last Altered: Sunday, June 07, 2020 08:15:38 Pacific Daylight Time

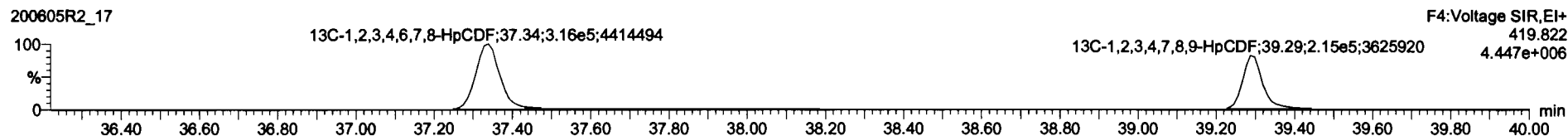
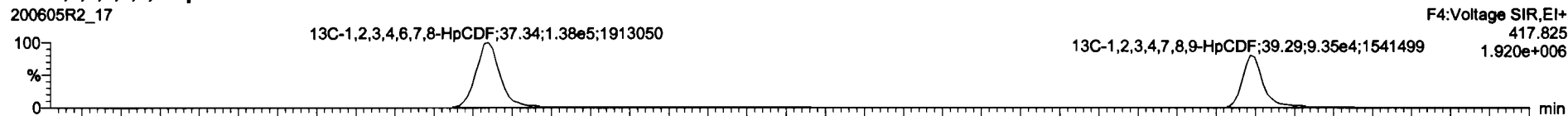
Printed: Sunday, June 07, 2020 08:17:58 Pacific Daylight Time

Name: 200605R2_17, Date: 06-Jun-2020, Time: 10:42:21, ID: 2000997-11 PDI-061SC-B-06-08-200428 14.52, Description: PDI-061SC-B-06-08-200428

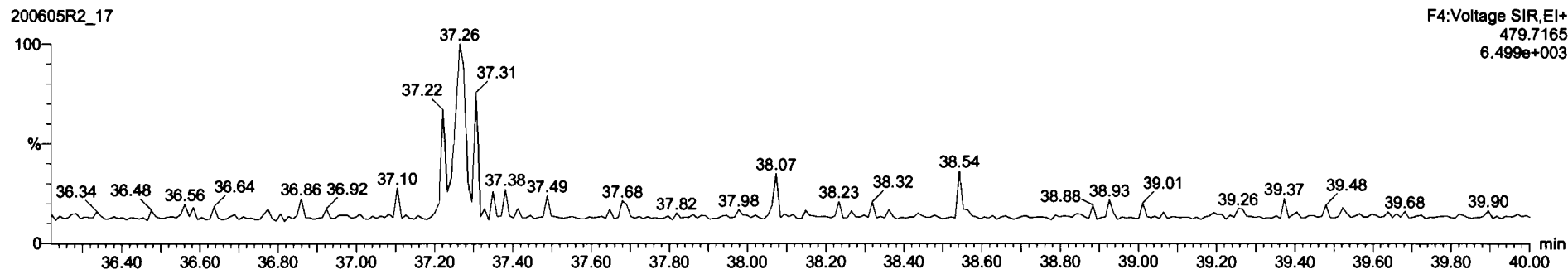
1,2,3,4,6,7,8-HpCDF



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



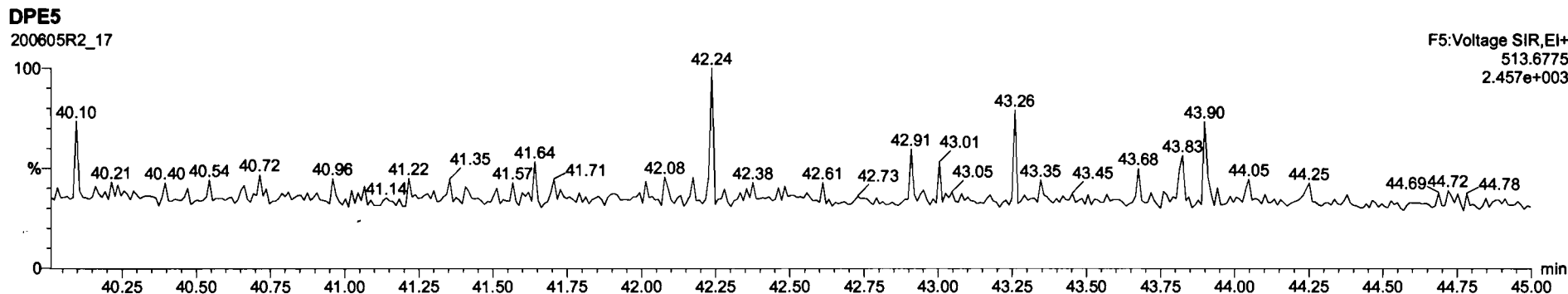
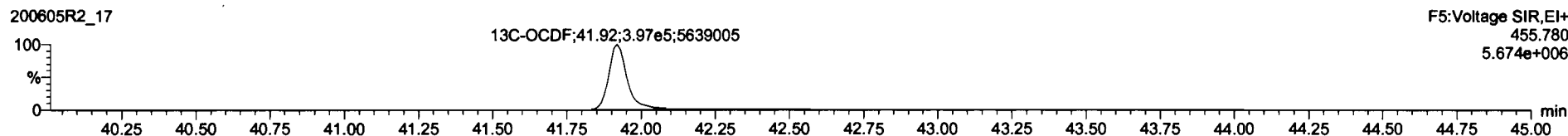
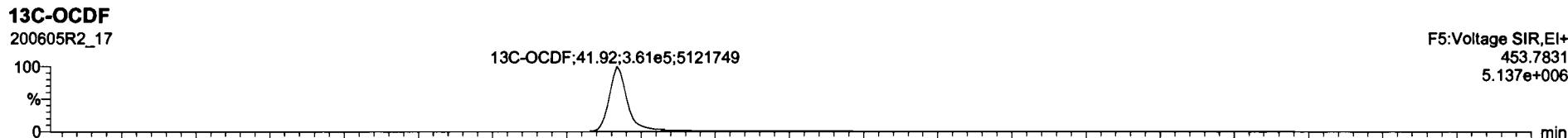
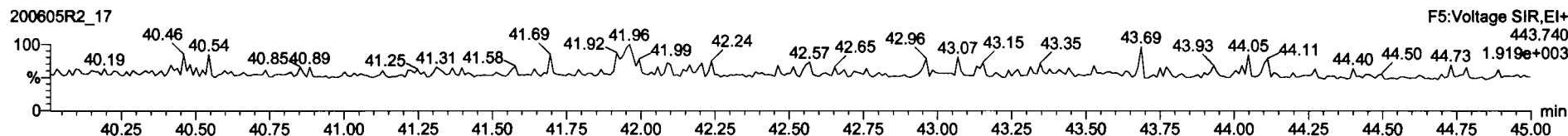
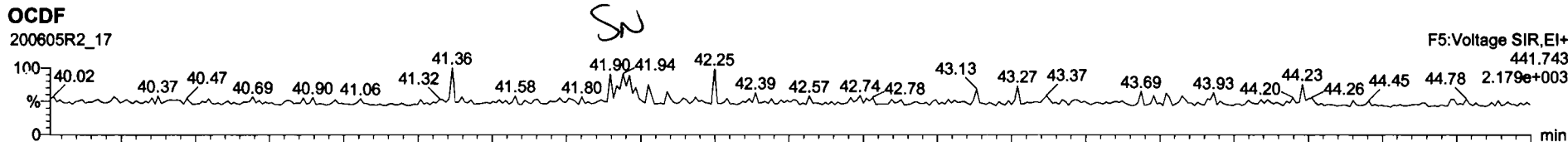
DPE4



Dataset: Untitled

Last Altered: Sunday, June 07, 2020 08:15:38 Pacific Daylight Time
Printed: Sunday, June 07, 2020 08:17:58 Pacific Daylight Time

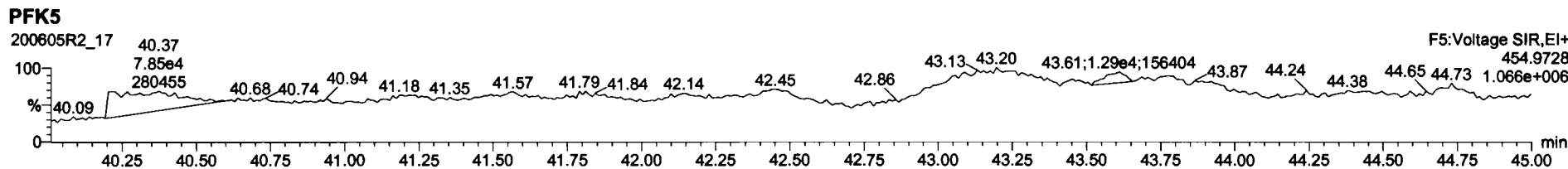
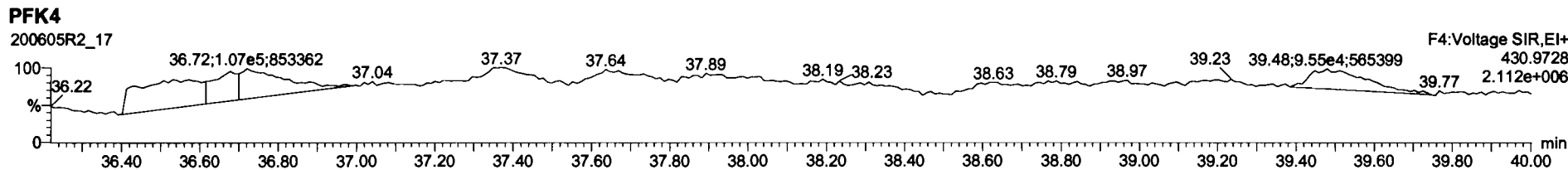
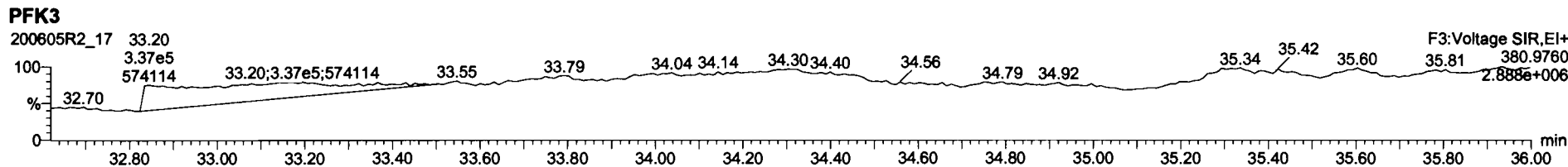
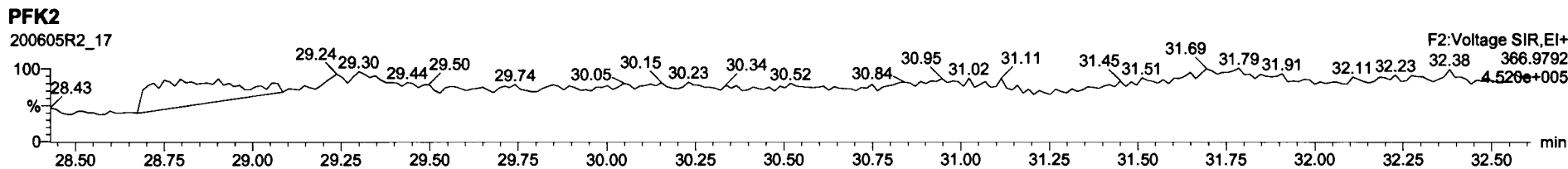
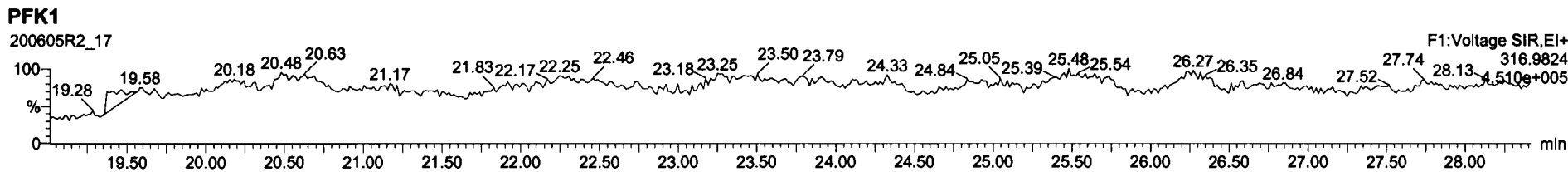
Name: 200605R2_17, Date: 06-Jun-2020, Time: 10:42:21, ID: 2000997-11 PDI-061SC-B-06-08-200428 14.52, Description: PDI-061SC-B-06-08-200428



Dataset: Untitled

Last Altered: Sunday, June 07, 2020 08:15:38 Pacific Daylight Time
Printed: Sunday, June 07, 2020 08:17:58 Pacific Daylight Time

Name: 200605R2_17, Date: 06-Jun-2020, Time: 10:42:21, ID: 2000997-11 PDI-061SC-B-06-08-200428 14.52, Description: PDI-061SC-B-06-08-200428



CONFIRMATION

Dataset: U:\VG7.PRO\Results\200702D1\200702D1_13.qld

Last Altered: Friday, July 03, 2020 09:53:38 Pacific Daylight Time
Printed: Friday, July 03, 2020 13:35:16 Pacific Daylight Time

DB 7/3/20 C107108/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 03 Jul 2020 09:08:31
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200702D1_13, Date: 02-Jul-2020, Time: 21:58:14, ID: 2000997-08RE1 PDI-061SC-B-00-02-200428 16.18, Description: PDI-061SC-B-00-02-200428

	Peak	RA	n/y	RRF	Area	Area	Area	Area	Area	Area	Area	Area	
1	2,3,7,8-TCDF	7.95e4	0.76	NO	0.982	10.018	16.991	16.99	1.000	1.001	54.177	0.281	54.2
2	13C-2,3,7,8-TCDF	2.98e5	0.77	NO	1.08	10.018	16.978	16.97	1.133	1.135	200.83	101	0.949
3	13C-1,2,3,4-TCDF	2.74e5	0.77	NO	1.00	10.018	14.920	14.95	1.000	1.000	199.65	100	1.03

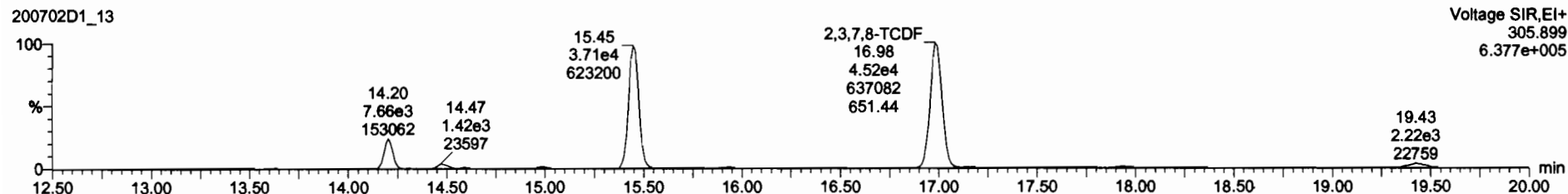
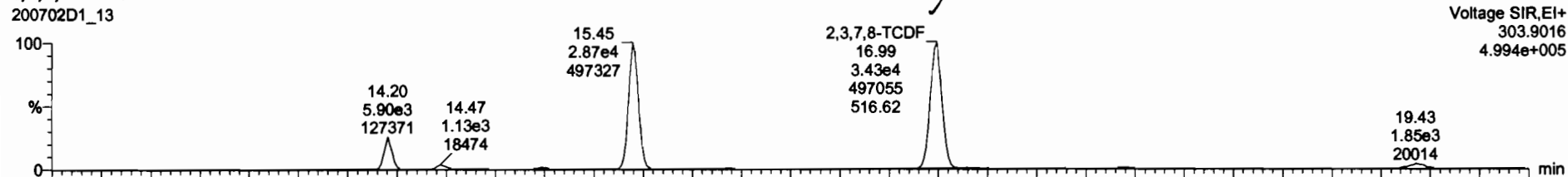
Dataset: U:\VG7.PRO\Results\200702D1\200702D1_13.qld

Last Altered: Friday, July 03, 2020 09:53:38 Pacific Daylight Time
Printed: Friday, July 03, 2020 09:54:32 Pacific Daylight Time

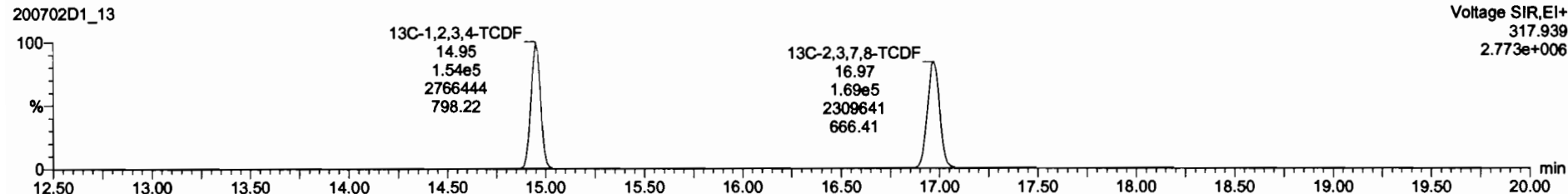
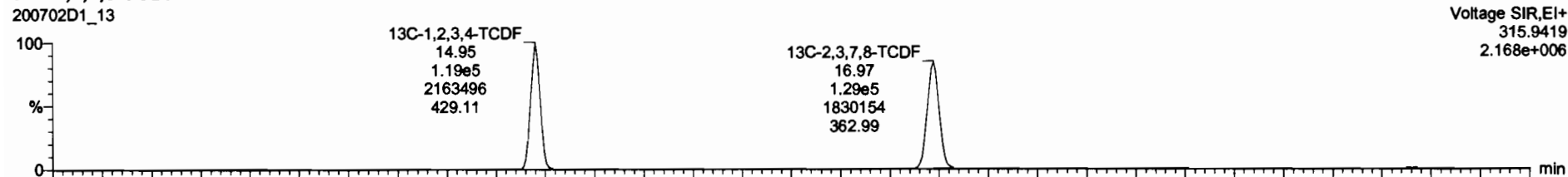
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 03 Jul 2020 09:08:31
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200702D1_13, Date: 02-Jul-2020, Time: 21:58:14, ID: 2000997-08RE1 PDI-061SC-B-00-02-200428 16.18, Description: PDI-061SC-B-00-02-200428

2,3,7,8-TCDF



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



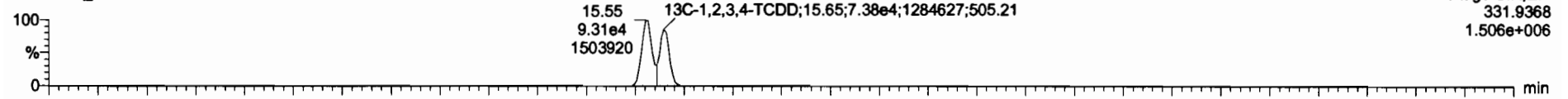
Dataset: U:\VG7.PRO\Results\200702D1\200702D1_13.qld

Last Altered: Friday, July 03, 2020 09:53:38 Pacific Daylight Time
Printed: Friday, July 03, 2020 09:54:32 Pacific Daylight Time

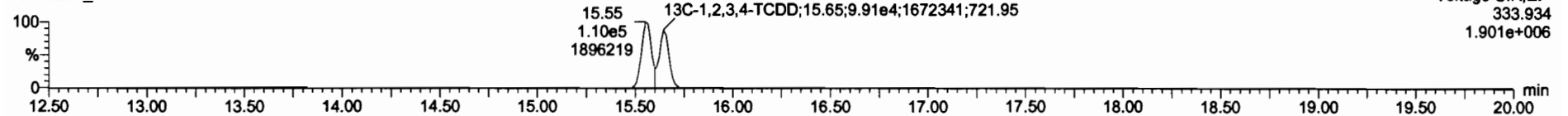
Name: 200702D1_13, Date: 02-Jul-2020, Time: 21:58:14, ID: 2000997-08RE1 PDI-061SC-B-00-02-200428 16.18, Description: PDI-061SC-B-00-02-200428

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

200702D1_13

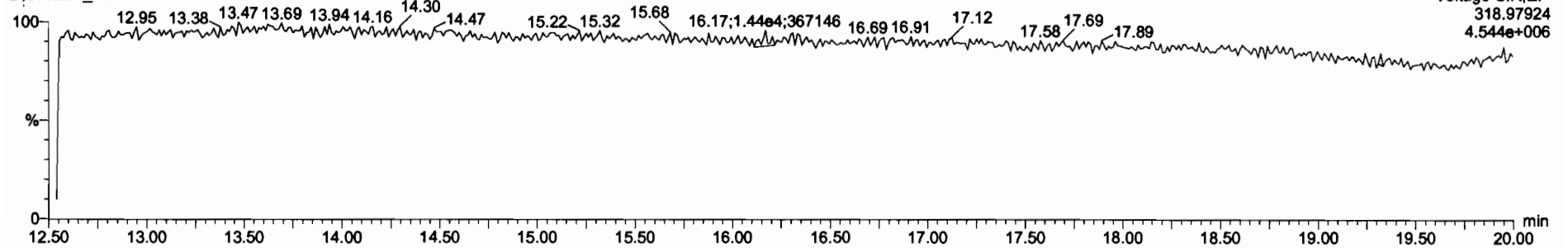


200702D1_13



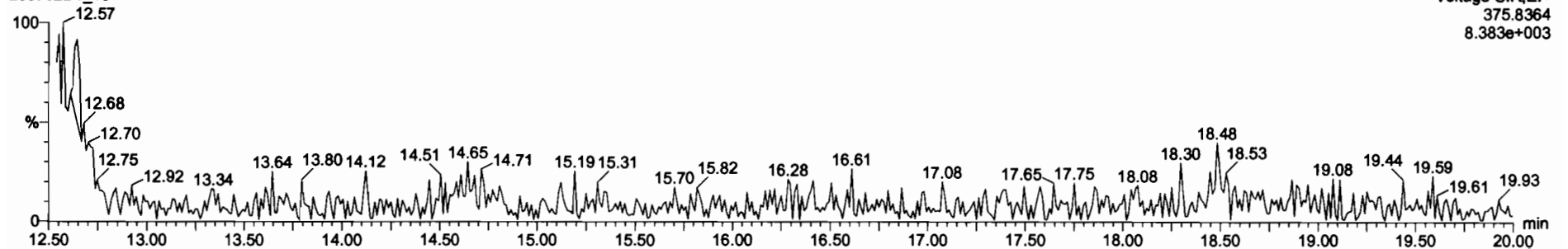
PFK1

200702D1_13



DPE1

200702D1_13



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200604KH

Reviewed By: C1 06/05/2020

Initials & Date

End Calibration ID: NA

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

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-1.qld

Last Altered: Thursday, June 04, 2020 09:07:52 Pacific Daylight Time
Printed: Thursday, June 04, 2020 09:08:10 Pacific Daylight Time

GEB 06/04/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

(7 06/05/2020

Name: 200604R1_1, Date: 04-Jun-2020, Time: 08:13:02, ID: ST200604R1_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	5.49e4	6.21e5	0.73	NO	0.888	26.55	26.53	NO	1.001	1.001	9.9464	99.5	NO
2	2 1,2,3,7,8-PeCDD	1.72e5	4.02e5	0.59	NO	0.908	31.49	31.48	NO	1.001	1.000	47.210	94.4	NO
3	3 1,2,3,4,7,8-HxCDD	1.33e5	2.68e5	1.27	NO	1.03	34.85	34.85	NO	1.000	1.000	47.940	95.9	NO
4	4 1,2,3,6,7,8-HxCDD	1.55e5	3.55e5	1.29	NO	0.892	34.94	34.95	NO	1.000	1.000	48.983	98.0	NO
5	5 1,2,3,7,8,9-HxCDD	1.27e5	2.92e5	1.24	NO	0.887	35.23	35.24	NO	1.000	1.001	49.043	98.1	NO
6	6 1,2,3,4,6,7,8-HpCDD	8.97e4	2.07e5	1.02	NO	0.864	38.77	38.77	NO	1.000	1.000	50.291	101	NO
7	7 OCDD	1.80e5	3.95e5	0.86	NO	0.914	41.73	41.74	NO	1.000	1.000	99.604	99.6	NO
8	8 2,3,7,8-TCDF	5.78e4	8.06e5	0.78	NO	0.751	25.64	25.63	NO	1.001	1.001	9.5558	95.6	NO
9	9 1,2,3,7,8-PeCDF	2.76e5	6.27e5	1.56	NO	0.893	30.21	30.20	NO	1.001	1.001	49.287	98.6	NO
10	10 2,3,4,7,8-PeCDF	2.72e5	6.14e5	1.51	NO	0.935	31.19	31.18	NO	1.001	1.000	47.440	94.9	NO
11	11 1,2,3,4,7,8-HxCDF	1.55e5	3.52e5	1.21	NO	0.884	33.95	33.97	NO	1.000	1.001	49.869	99.7	NO
12	12 1,2,3,6,7,8-HxCDF	1.86e5	4.27e5	1.20	NO	0.889	34.09	34.09	NO	1.000	1.000	49.096	98.2	NO
13	13 2,3,4,6,7,8-HxCDF	1.70e5	3.74e5	1.20	NO	0.934	34.70	34.69	NO	1.001	1.001	48.476	97.0	NO
14	14 1,2,3,7,8,9-HxCDF	1.28e5	2.99e5	1.23	NO	0.871	35.58	35.60	NO	1.000	1.001	49.081	98.2	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.16e5	2.52e5	1.01	NO	0.873	37.39	37.37	NO	1.001	1.001	52.878	106	NO
16	16 1,2,3,4,7,8,9-HpCDF	8.19e4	1.61e5	1.00	NO	1.01	39.31	39.31	NO	1.000	1.000	50.181	100	NO
17	17 OCDF	1.86e5	4.70e5	0.86	NO	0.806	41.93	41.93	NO	1.000	1.000	98.247	98.2	NO
18	18 13C-2,3,7,8-TCDD	6.21e5	5.40e5	0.79	NO	1.16	26.54	26.51	NO	1.026	1.025	99.431	99.4	NO
19	19 13C-1,2,3,7,8-PeCDD	4.02e5	5.40e5	0.63	NO	0.849	31.73	31.47	NO	1.227	1.217	87.561	87.6	NO
20	20 13C-1,2,3,4,7,8-HxCDD	2.68e5	3.63e5	1.29	NO	0.779	34.84	34.84	NO	1.014	1.014	94.601	94.6	NO
21	21 13C-1,2,3,6,7,8-HxCDD	3.55e5	3.63e5	1.27	NO	1.02	34.95	34.94	NO	1.017	1.017	96.142	96.1	NO
22	22 13C-1,2,3,7,8,9-HxCDD	2.92e5	3.63e5	1.27	NO	0.903	35.23	35.22	NO	1.025	1.025	89.238	89.2	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.07e5	3.63e5	1.04	NO	0.689	38.75	38.76	NO	1.128	1.128	82.563	82.6	NO
24	24 13C-OCDD	3.95e5	3.63e5	0.90	NO	0.652	41.77	41.73	NO	1.216	1.215	166.68	83.3	NO
25	25 13C-2,3,7,8-TCDF	8.06e5	7.79e5	0.76	NO	1.06	25.58	25.62	NO	0.989	0.991	97.712	97.7	NO
26	26 13C-1,2,3,7,8-PeCDF	6.27e5	7.79e5	1.61	NO	0.838	30.11	30.18	NO	1.165	1.167	96.161	96.2	NO
27	27 13C-2,3,4,7,8-PeCDF	6.14e5	7.79e5	1.54	NO	0.817	31.06	31.16	NO	1.202	1.205	96.592	96.6	NO
28	28 13C-1,2,3,4,7,8-HxCDF	3.52e5	3.63e5	0.50	NO	1.01	33.97	33.95	NO	0.989	0.988	96.245	96.2	NO
29	29 13C-1,2,3,6,7,8-HxCDF	4.27e5	3.63e5	0.51	NO	1.17	34.10	34.08	NO	0.992	0.992	100.67	101	NO
30	30 13C-2,3,4,6,7,8-HxCDF	3.74e5	3.63e5	0.49	NO	1.02	34.67	34.67	NO	1.009	1.009	100.92	101	NO
31	31 13C-1,2,3,7,8,9-HxCDF	2.99e5	3.63e5	0.50	NO	0.860	35.57	35.58	NO	1.035	1.036	95.943	95.9	NO

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-1.qld

Last Altered: Thursday, June 04, 2020 09:07:52 Pacific Daylight Time

Printed: Thursday, June 04, 2020 09:08:10 Pacific Daylight Time

Name: 200604R1_1, Date: 04-Jun-2020, Time: 08:13:02, ID: ST200604R1_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	2.52e5	3.63e5	0.42	NO	0.774	37.32	37.35	NO	1.086	1.087	89.718	89.7	NO
33	13C-1,2,3,4,7,8,9-HpCDF	1.61e5	3.63e5	0.42	NO	0.521	39.35	39.31	NO	1.145	1.144	85.195	85.2	NO
34	13C-OCDF	4.70e5	3.63e5	0.86	NO	0.746	41.95	41.93	NO	1.221	1.220	173.63	86.8	NO
35	37Cl-2,3,7,8-TCDD	5.62e4	5.40e5			1.04	26.57	26.53	NO	1.028	1.026	10.023	100	NO
36	13C-1,2,3,4-TCDD	5.40e5	5.40e5	0.80	NO	1.00	25.89	25.85	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	7.79e5	7.79e5	0.78	NO	1.00	24.36	24.18	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	3.63e5	3.63e5	0.50	NO	1.00	34.42	34.36	NO	1.000	1.000	100.00	100	YES ^{OK}

Dataset: Untitled

Last Altered: Friday, June 05, 2020 07:17:54 Pacific Daylight Time
Printed: Friday, June 05, 2020 07:18:35 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

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

	Name	ID	Acq.Date	Acq.Time
1	200604R1_1	ST200604R1_1 1613 CS3 19L2305	04-Jun-20	08:13:02
2	200604R1_2	B0E0067-BS1 OPR 10	04-Jun-20	09:01:24
3	200604R1_3	SOLVENT BLANK	04-Jun-20	09:48:52
4	200604R1_4	B0E0067-BLK1 Method Blank 10	04-Jun-20	10:35:05
5	200604R1_5	2000964-01 PDI-1148SC-A-07-08-200427 12.64	04-Jun-20	11:22:10
6	200604R1_6	2000964-02 PDI-148SC-A-00-01-200427 18.1	04-Jun-20	12:08:25
7	200604R1_7	2000964-03 PDI-148SC-A-01-02-200427 12.76	04-Jun-20	12:54:39
8	200604R1_8	2000964-04 PDI-148SC-A-02-03-200427 12.48	04-Jun-20	13:40:54
9	200604R1_9	2000964-05 PDI-148SC-A-03-04-200427 12.53	04-Jun-20	14:27:11
10	200604R1_10	2000964-06 PDI-148SC-A-04-05-200427 11.5	04-Jun-20	15:13:26
11	200604R1_11	2000964-07 PDI-148SC-A-05-06-200427 11.82	04-Jun-20	15:59:40
12	200604R1_12	2000964-08 PDI-148SC-A-06-07-200427 12.17	04-Jun-20	16:45:53
13	200604R1_13	B0E0067-DUP1 Duplicate 12.3	04-Jun-20	17:32:04
14	200604R1_14	2000964-09 PDI-148SC-A-07-08-200427 12.68	04-Jun-20	18:18:17
15	200604R1_15	2000997-01 PDI-061SC-A-03-04-200428 14.97	04-Jun-20	19:04:30

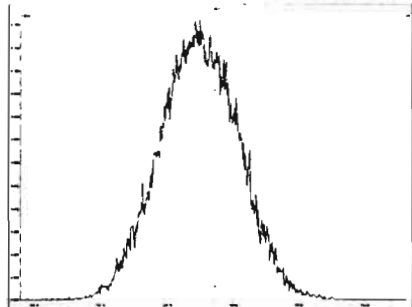
Experiment Calibration Report

MassLynx 4.1 SCN815

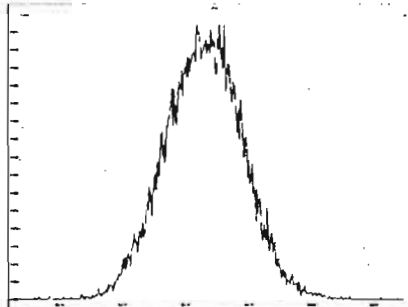
File: C:\msd1\000001\Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, June 04, 2020 08:07:31 Pacific Daylight Time

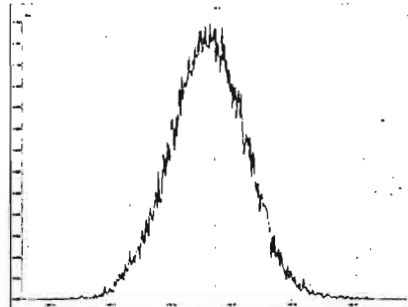
M 292.9824 R 10775



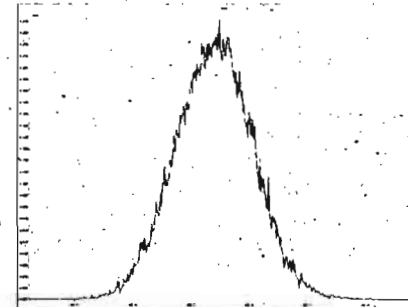
M 304.9824 R 10418



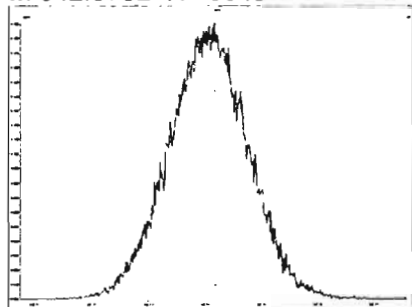
M 318.9792 R 10548



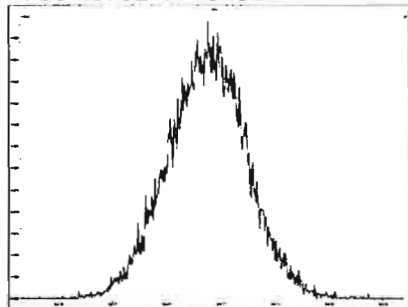
M 330.9792 R 10419



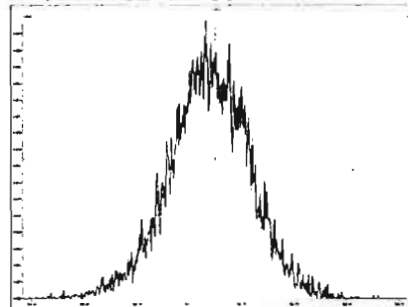
M 342.9792 R 10549



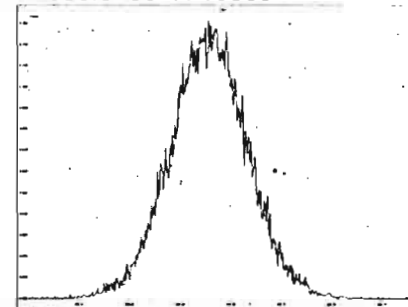
M 354.9792 R 10286



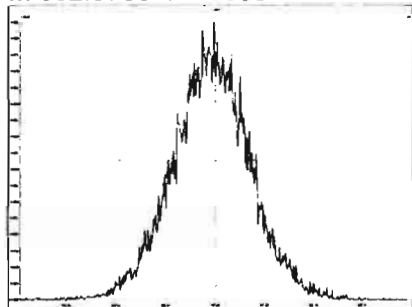
M 366.9792 R 10590



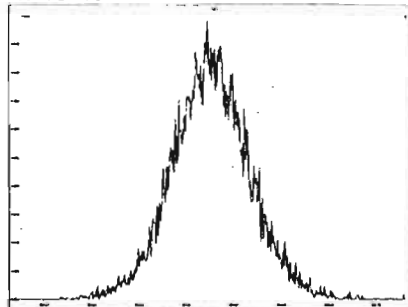
M 380.9760 R 10869



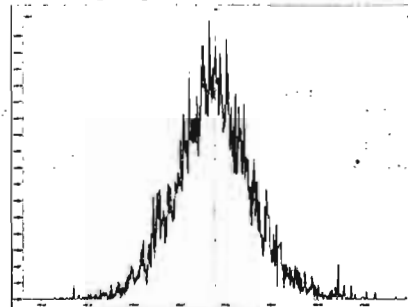
M 392.9760 R 10636



M 404.9760 R 10204



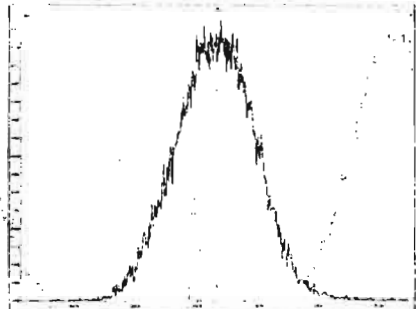
M 416.9760 R 10915



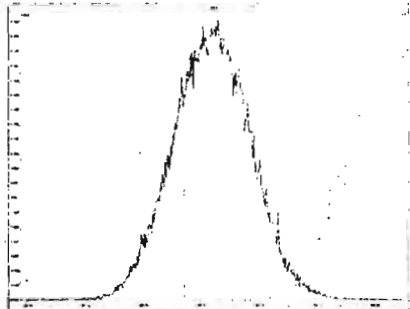
Reference: P11ref Function: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, June 04, 2020 08:08:57 Pacific Daylight Time

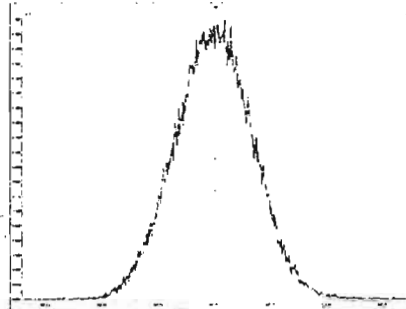
M 318.9792 R 10549



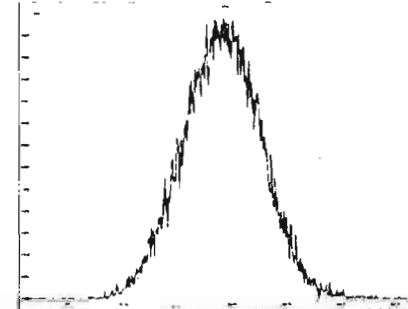
M 330.9792 R 10915



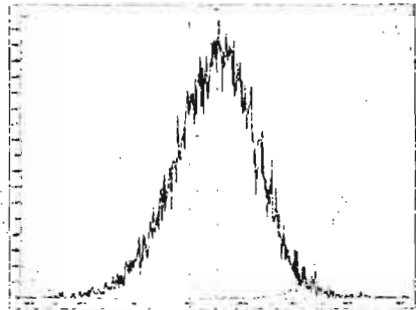
M 342.9792 R 10549



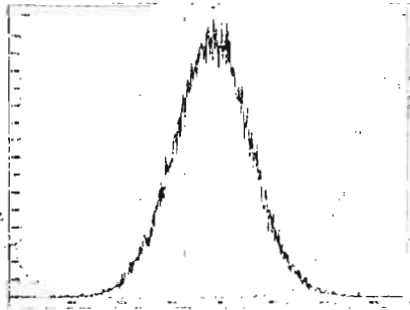
M 354.9792 R 10733



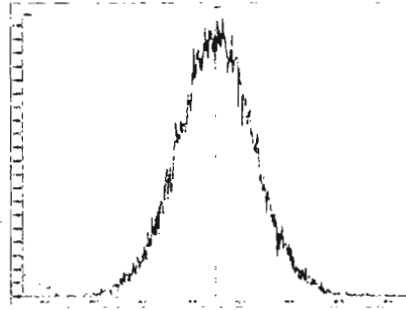
M 366.9792 R 10457



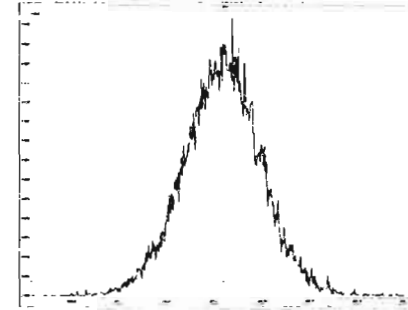
M 380.9760 R 10634



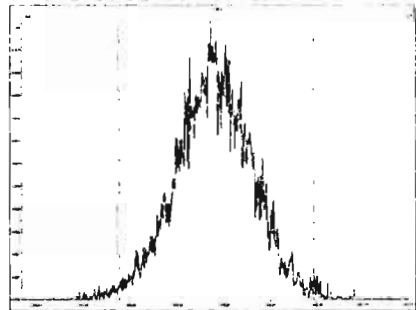
M 392.9760 R 10202



M 404.9760 R 10639



M 416.9760 R 11012



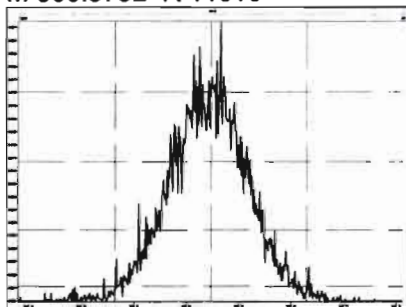
Experiment Calibration Report

MassLynx 4.1 SCN815

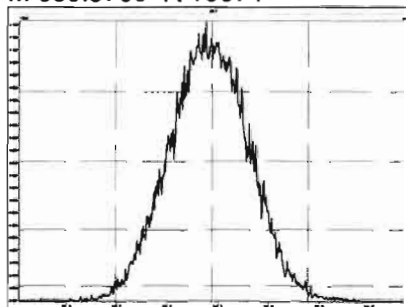
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, June 04, 2020 08:09:31 Pacific Daylight Time

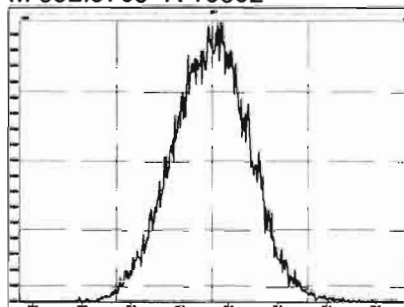
M 366.9792 R 11010



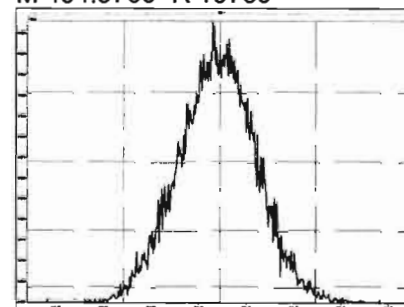
M 380.9760 R 10374



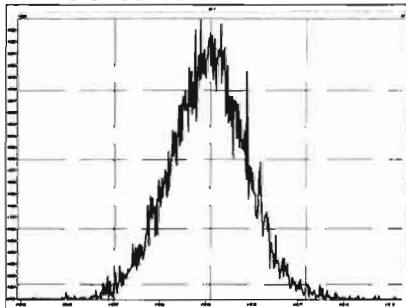
M 392.9760 R 10502



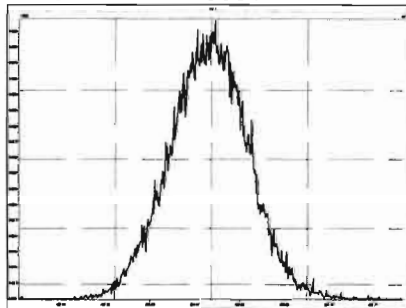
M 404.9760 R 10730



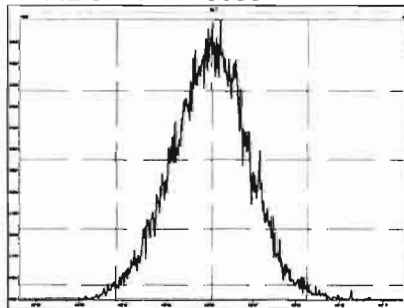
M 416.9760 R 11164



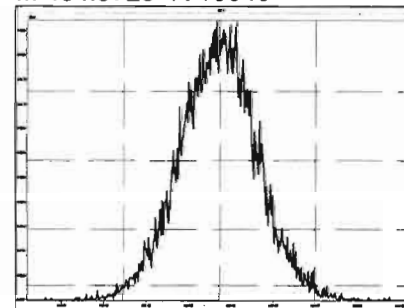
M 430.9728 R 10681



M 442.9728 R 10638



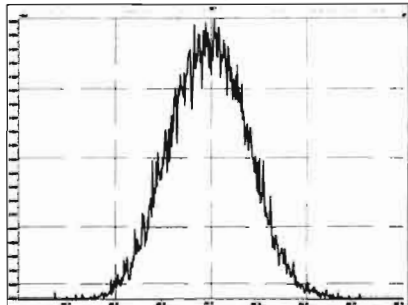
M 454.9728 R 10640



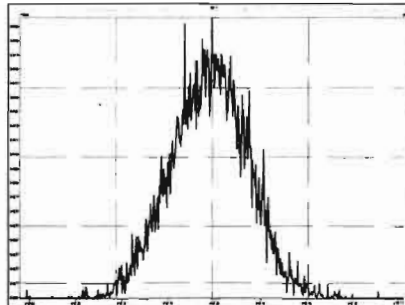
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, June 04, 2020 08:09:54 Pacific Daylight Time

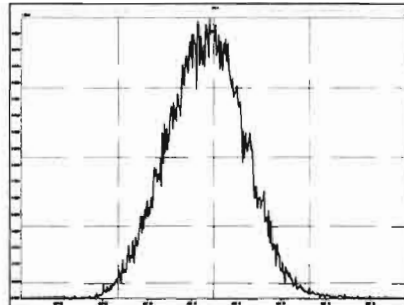
M 404.9760 R 11064



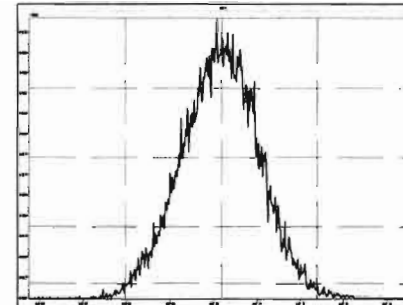
M 416.9760 R 11962



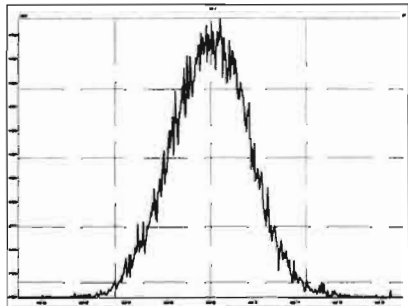
M 430.9728 R 10728



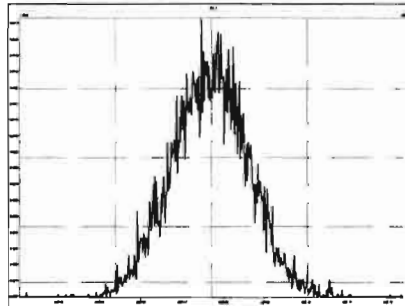
M 442.9728 R 10965



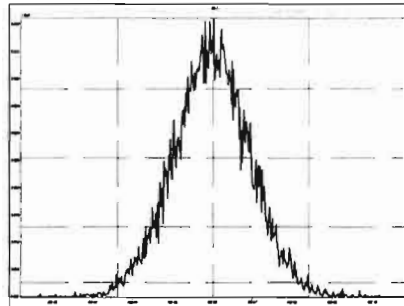
M 454.9728 R 10330



M 466.9728 R 11112



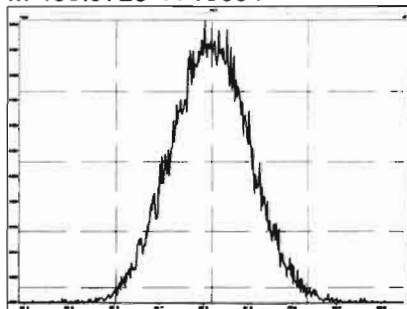
M 480.9696 R 10776



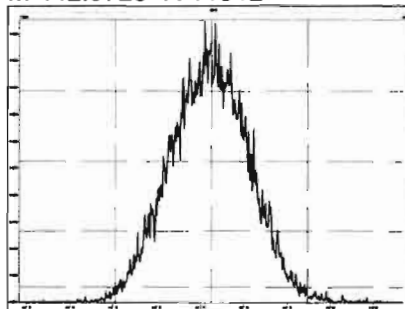
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, June 04, 2020 08:10:19 Pacific Daylight Time

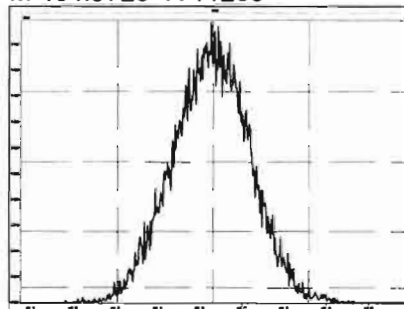
M 430.9728 R 10684



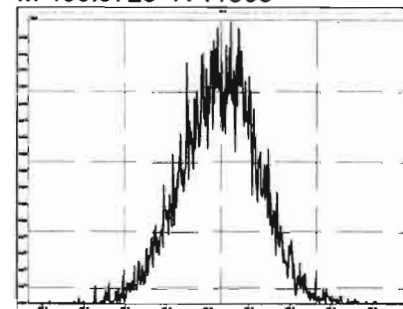
M 442.9728 R 11012



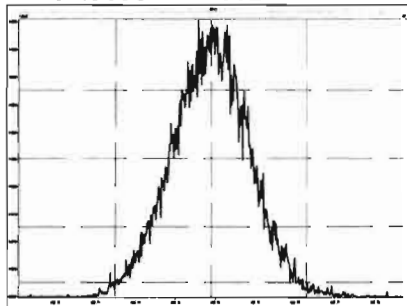
M 454.9728 R 11258



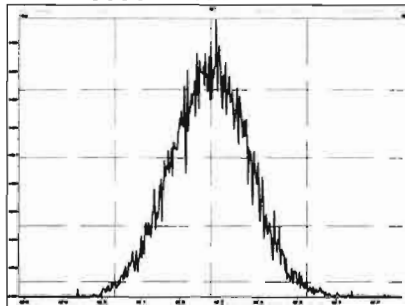
M 466.9728 R 11363



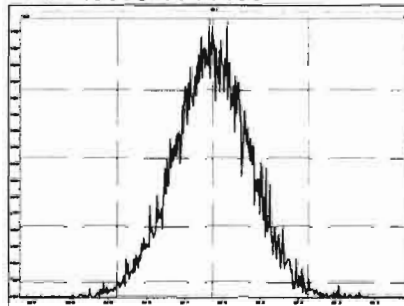
M 480.9696 R 10682



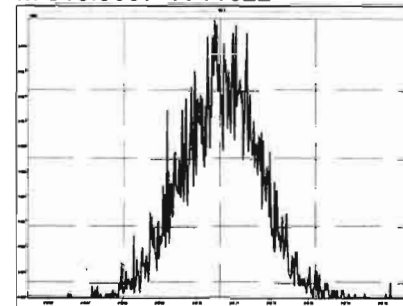
M 492.9696 R 10504



M 504.9696 R 11466



M 516.9697 R 11622



Dataset: Untitled

Last Altered: Thursday, June 04, 2020 09:00:18 Pacific Daylight Time

Printed: Thursday, June 04, 2020 09:00:38 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

ID: ST Name: 200604R1_1, Date: 04-Jun-2020, Time: 08:13:02, ID: ST200604R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.52
2	2 1,2,8,9-TCDD (Last)	27.49
3	3 1,2,4,7,9-PeCDD (First)	29.27
4	4 1,2,3,8,9-PeCDD (Last)	31.86
5	5 1,2,4,6,7,9-HxCDD (First)	33.35
6	6 1,2,3,7,8,9-HxCDD (Last)	35.24
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.75
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.77
9	9 1,3,6,8-TCDF (First)	20.36
10	10 1,2,8,9-TCDF (Last)	27.64
11	11 1,3,4,6,8-PeCDF (First)	27.59
12	12 1,2,3,8,9-PeCDF (Last)	32.11
13	13 1,2,3,4,6,8-HxCDF (First)	32.80
14	14 1,2,3,7,8,9-HxCDF (Last)	35.60
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.37
16	16 1,2,3,4,7,8,9-HpCDF (Last)	39.31

Dataset: Untitled

Last Altered: Thursday, June 04, 2020 09:00:18 Pacific Daylight Time
Printed: Thursday, June 04, 2020 09:00:38 Pacific Daylight Time

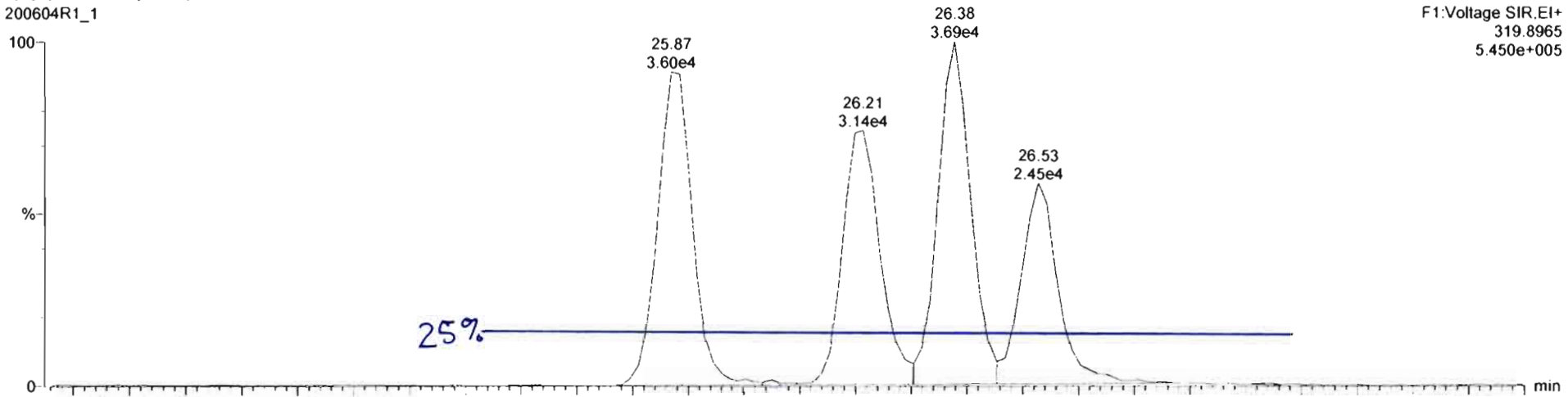
GRB 06/04/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1_1, Date: 04 Jun 2020, Time: 08:13:02, ID: ST200604R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

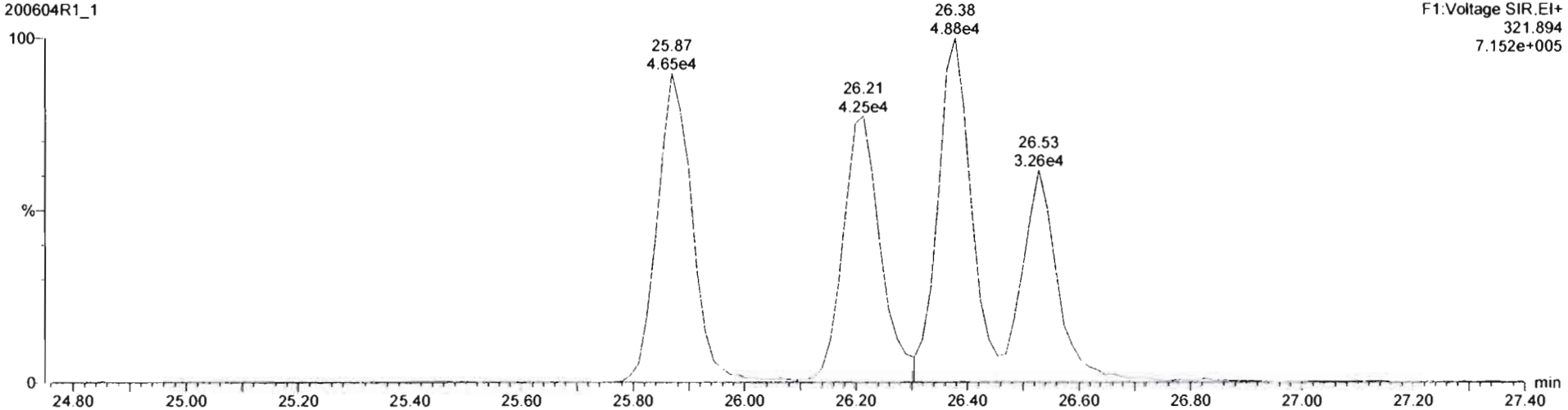
1,3,6,8-TCDD (First)
200604R1_1

F1:Voltage SIR,EI+
319.8965
5.450e+005



200604R1_1

F1:Voltage SIR,EI+
321.894
7.152e+005



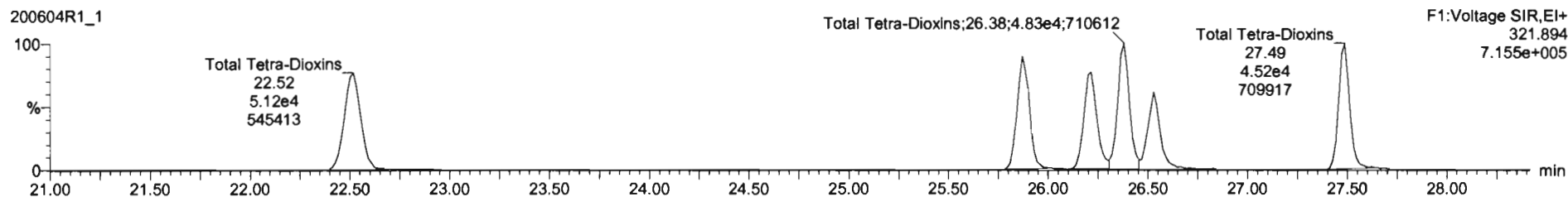
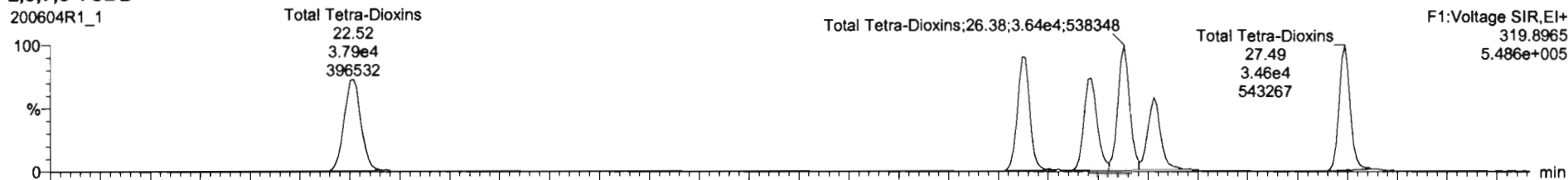
Dataset: Untitled

Last Altered: Thursday, June 04, 2020 09:03:38 Pacific Daylight Time
Printed: Thursday, June 04, 2020 09:03:43 Pacific Daylight Time

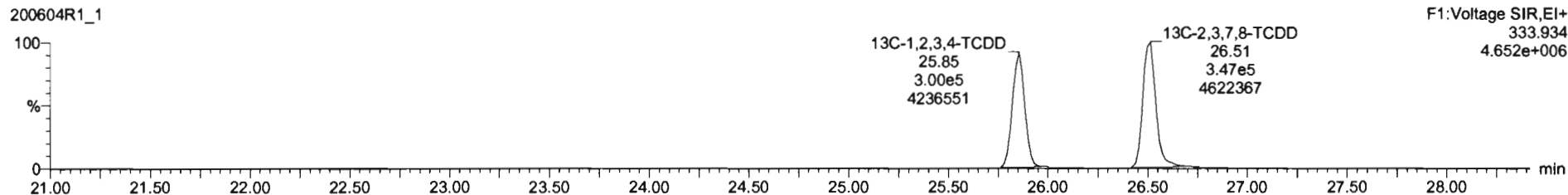
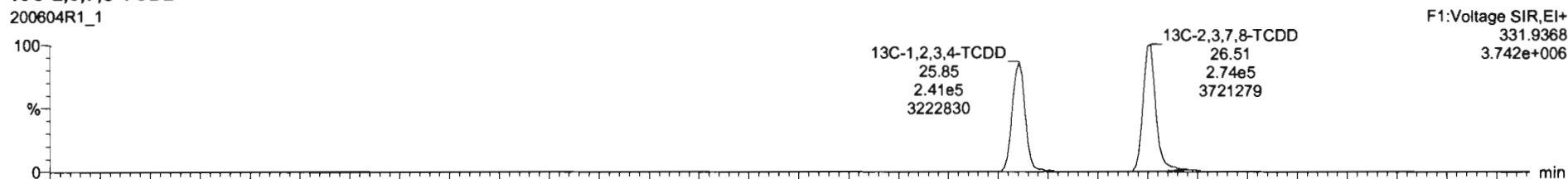
Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1_1, Date: 04-Jun-2020, Time: 08:13:02, ID: ST200604R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



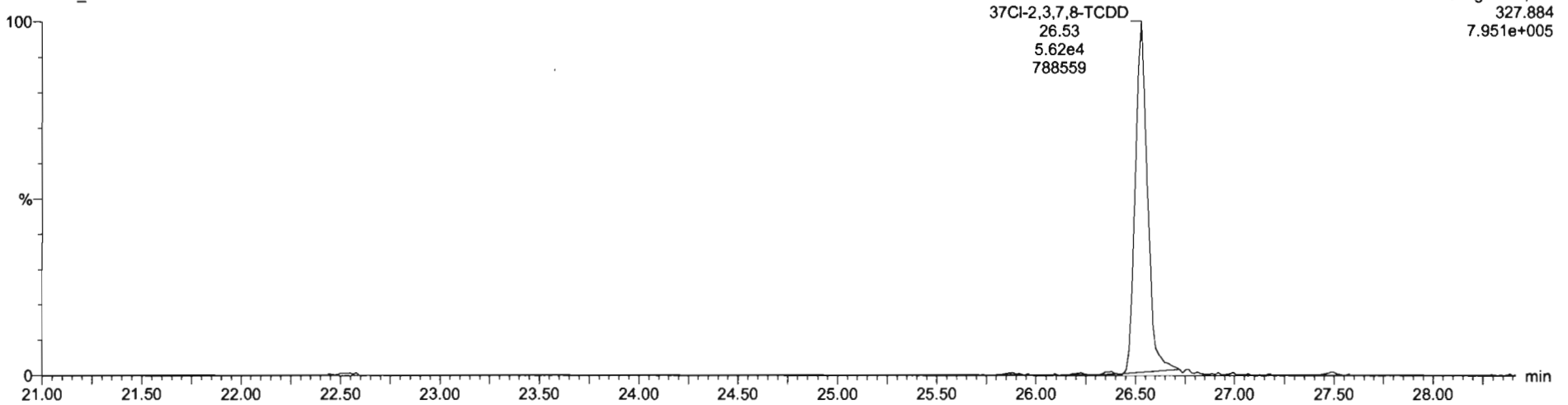
Dataset: Untitled

Last Altered: Thursday, June 04, 2020 09:03:38 Pacific Daylight Time
Printed: Thursday, June 04, 2020 09:03:43 Pacific Daylight Time

Name: 200604R1_1, Date: 04-Jun-2020, Time: 08:13:02, ID: ST200604R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

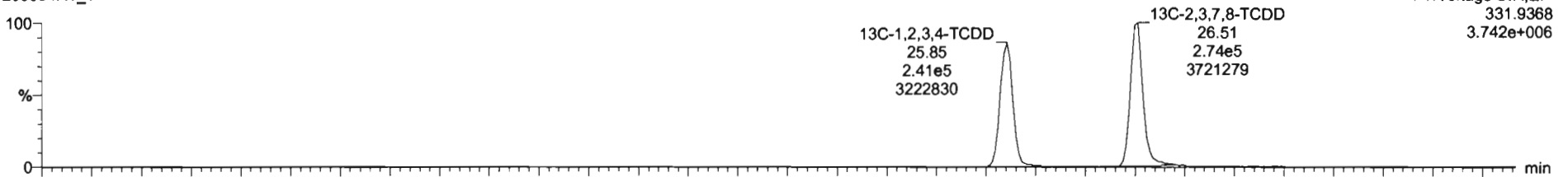
37Cl-2,3,7,8-TCDD

200604R1_1

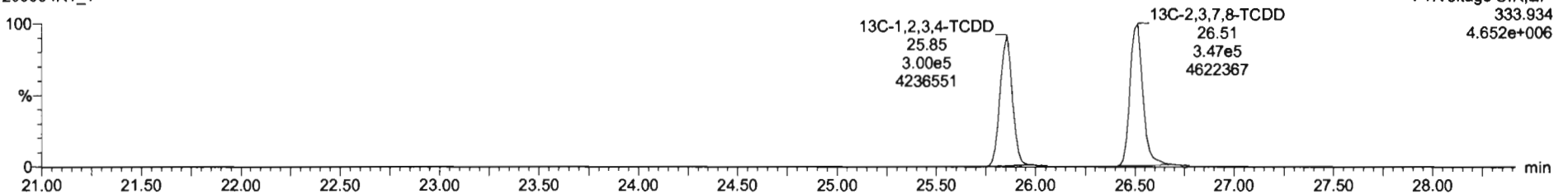


13C-1,2,3,4-TCDD

200604R1_1



200604R1_1



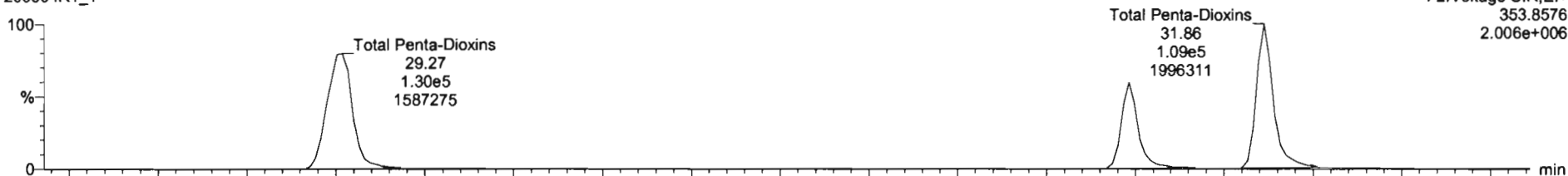
Dataset: Untitled

Last Altered: Thursday, June 04, 2020 09:03:38 Pacific Daylight Time
Printed: Thursday, June 04, 2020 09:03:43 Pacific Daylight Time

Name: 200604R1_1, Date: 04-Jun-2020, Time: 08:13:02, ID: ST200604R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

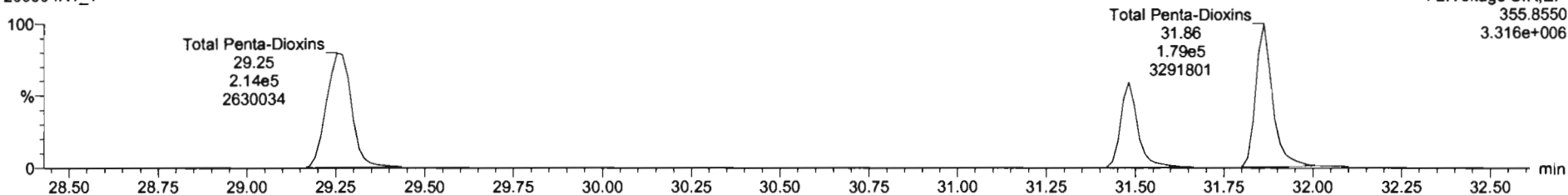
1,2,3,7,8-PeCDD

200604R1_1



F2:Voltage SIR,EI+
353.8576
2.006e+006

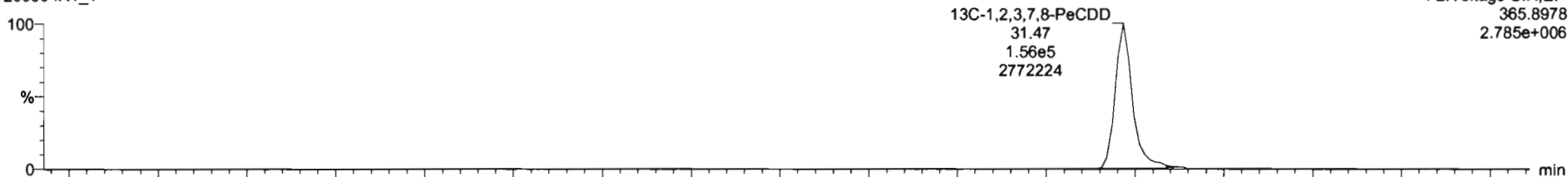
200604R1_1



F2:Voltage SIR,EI+
355.8550
3.316e+006

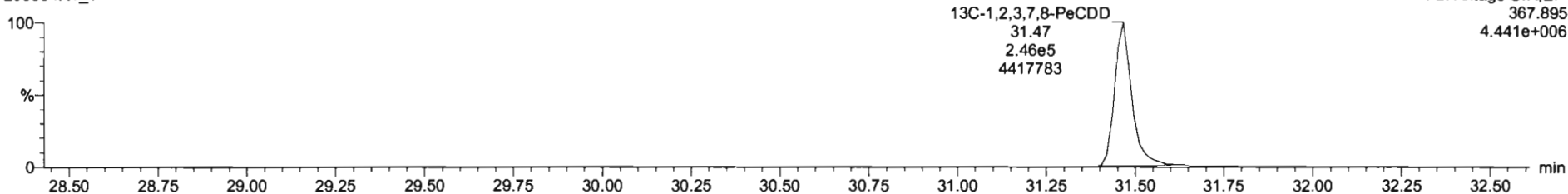
13C-1,2,3,7,8-PeCDD

200604R1_1



F2:Voltage SIR,EI+
365.8978
2.785e+006

200604R1_1



F2:Voltage SIR,EI+
367.895
4.441e+006

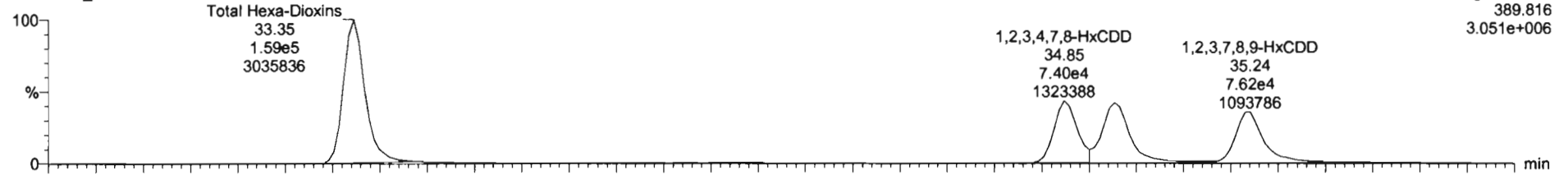
Dataset: Untitled

Last Altered: Thursday, June 04, 2020 09:03:38 Pacific Daylight Time
Printed: Thursday, June 04, 2020 09:03:43 Pacific Daylight Time

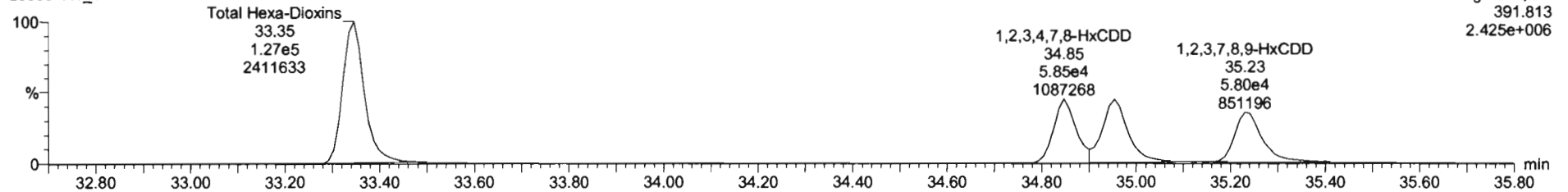
Name: 200604R1_1, Date: 04-Jun-2020, Time: 08:13:02, ID: ST200604R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200604R1_1

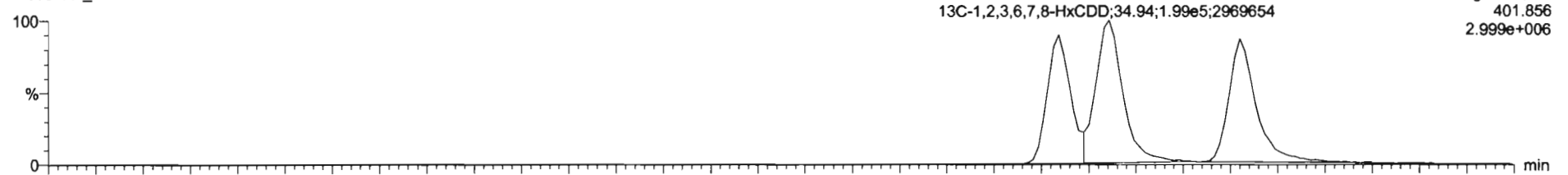


200604R1_1

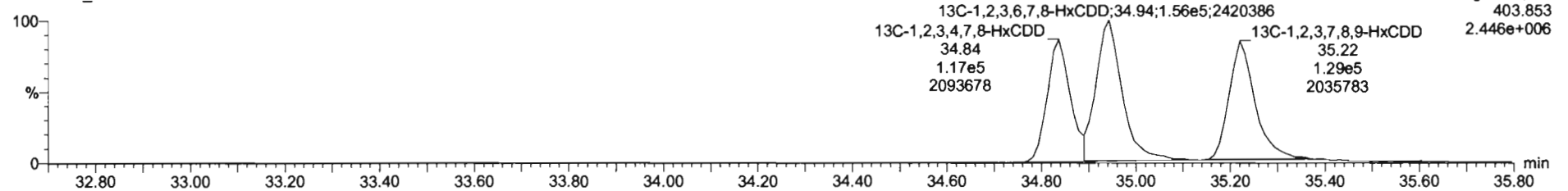


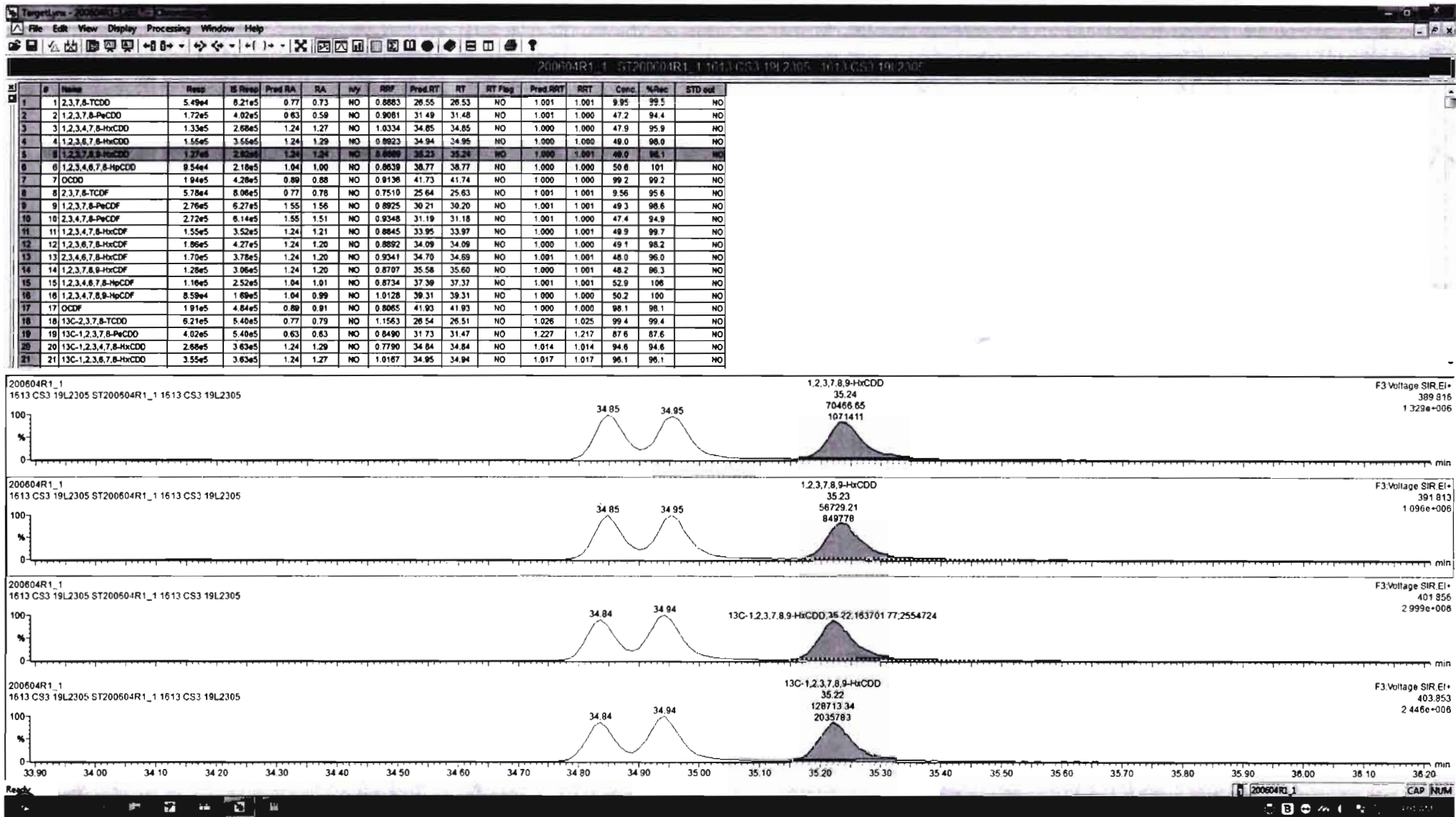
13C-1,2,3,4,7,8-HxCDD

200604R1_1



200604R1_1





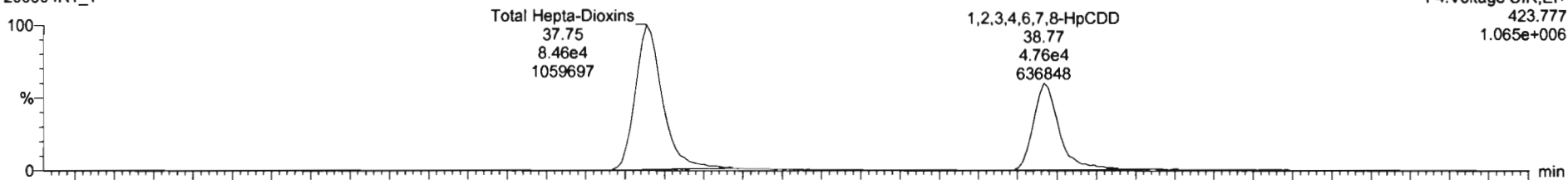
Dataset: Untitled

Last Altered: Thursday, June 04, 2020 09:03:38 Pacific Daylight Time
Printed: Thursday, June 04, 2020 09:03:43 Pacific Daylight Time

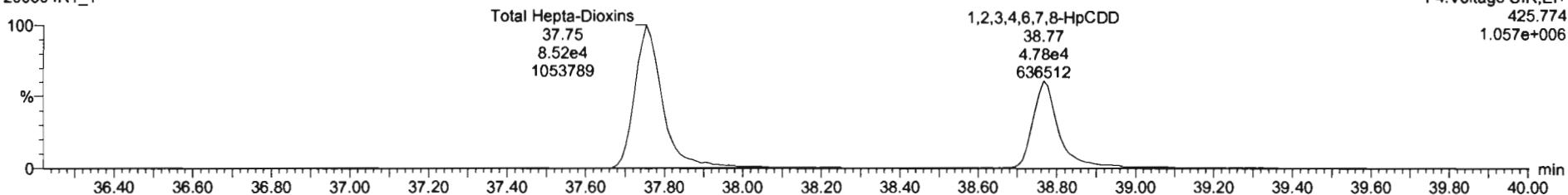
Name: 200604R1_1, Date: 04-Jun-2020, Time: 08:13:02, ID: ST200604R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200604R1_1

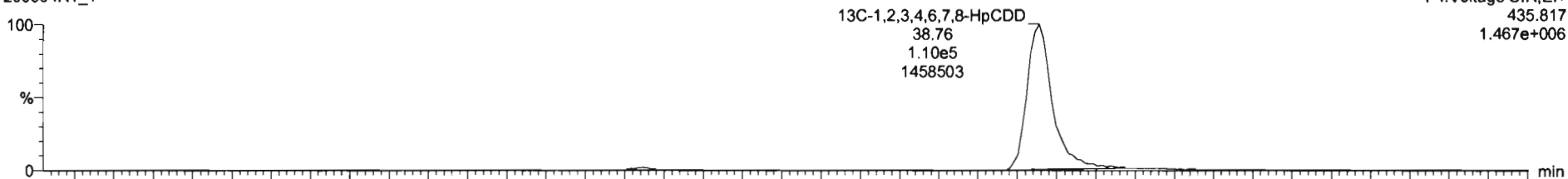


200604R1_1

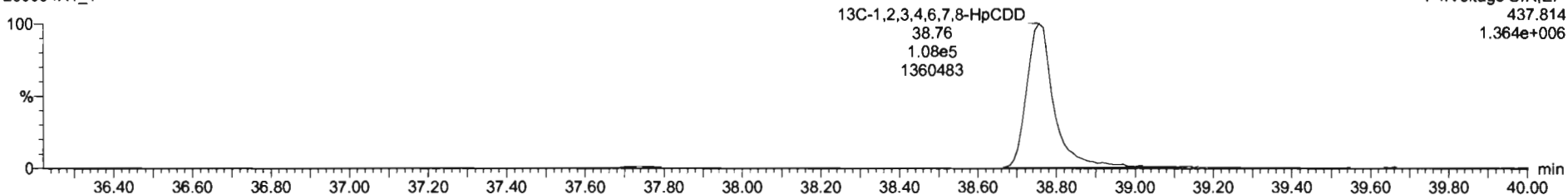


13C-1,2,3,4,6,7,8-HpCDD

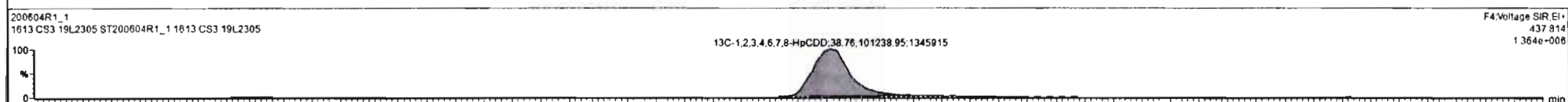
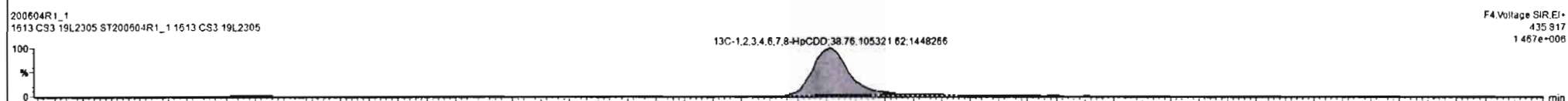
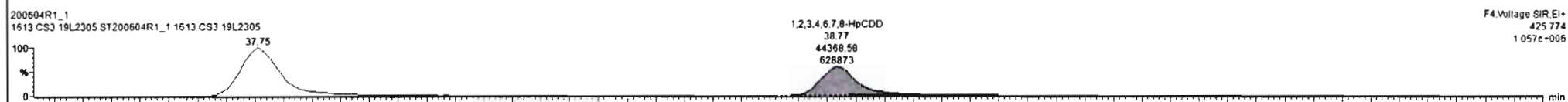
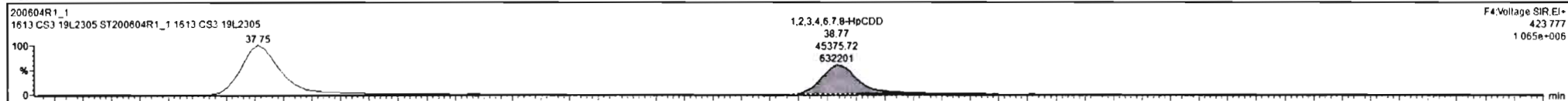
200604R1_1



200604R1_1



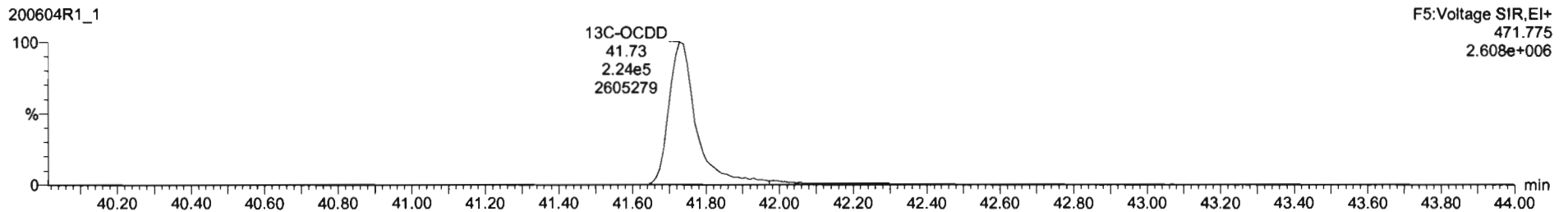
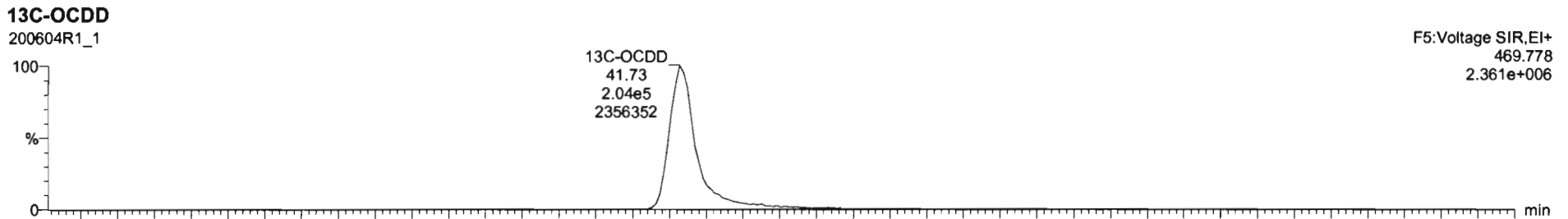
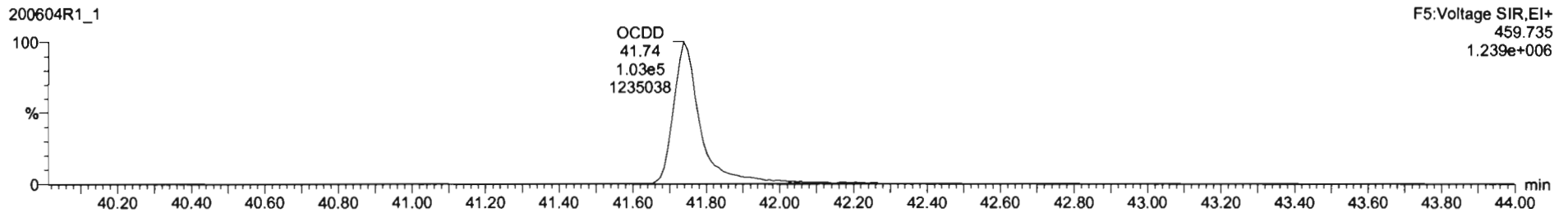
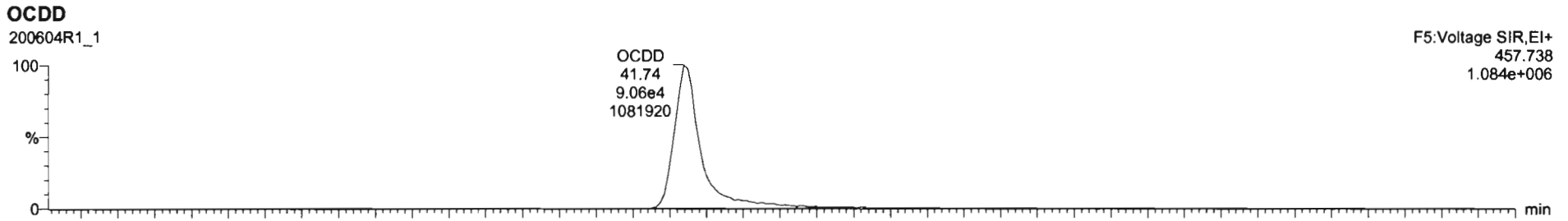
#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	5.49e4	6.21e5	0.77	0.73	NO	0.8883	26.55	26.53	NO	1.001	1.001	9.95	99.5	NO
2	1,2,3,7,8-PeCDD	1.72e5	4.02e5	0.63	0.59	NO	0.9081	31.49	31.48	NO	1.001	1.000	47.2	94.4	NO
3	1,2,3,4,7,8-HxCDD	1.33e5	2.68e5	1.24	1.27	NO	1.0334	34.85	34.85	NO	1.000	1.000	47.9	95.9	NO
4	1,2,3,6,7,8-HxCDD	1.55e5	3.55e5	1.24	1.29	NO	0.8923	34.94	34.95	NO	1.000	1.000	49.0	96.0	NO
5	1,2,3,7,8,9-HxCDD	1.27e5	2.92e5	1.24	1.24	NO	0.8889	35.23	35.24	NO	1.000	1.001	49.0	98.1	NO
6	1,2,3,4,6,7,8-HpCDD	8.97e4	2.97e5	1.84	1.82	NO	0.9839	38.77	38.77	NO	1.000	1.000	86.3	101	NO
7	OCDD	1.84e5	4.28e5	0.88	0.88	NO	0.9136	41.73	41.74	NO	1.000	1.000	99.2	99.2	NO
8	2,3,7,8-TCDF	5.78e4	8.06e5	0.77	0.78	NO	0.7510	25.64	25.83	NO	1.001	1.001	9.56	95.6	NO
9	1,2,3,7,8-PeCDF	2.76e5	6.27e5	1.55	1.56	NO	0.8925	30.21	30.20	NO	1.001	1.001	49.3	98.6	NO
10	1,2,3,4,7,8-PeCDF	2.72e5	6.14e5	1.55	1.51	NO	0.9348	31.19	31.18	NO	1.001	1.000	47.4	94.9	NO
11	1,2,3,4,7,8-HxCDF	1.55e5	3.52e5	1.24	1.21	NO	0.8845	33.95	33.97	NO	1.000	1.001	49.9	99.7	NO
12	1,2,3,6,7,8-HxCDF	1.86e5	4.27e5	1.24	1.20	NO	0.8892	34.09	34.09	NO	1.000	1.000	49.1	98.2	NO
13	1,2,3,4,6,7,8-HxCDF	1.70e5	3.78e5	1.24	1.20	NO	0.9341	34.70	34.69	NO	1.001	1.001	48.0	96.0	NO
14	1,2,3,7,8,9-HxCDF	1.28e5	3.06e5	1.24	1.20	NO	0.8707	35.58	35.60	NO	1.000	1.001	48.2	96.3	NO
15	1,2,3,4,6,7,8-HpCDF	1.16e5	2.52e5	1.04	1.01	NO	0.8734	37.39	37.37	NO	1.001	1.001	52.9	108	NO
16	1,2,3,4,7,8,9-HpCDF	8.59e4	1.69e5	1.04	0.99	NO	1.0128	39.31	39.31	NO	1.000	1.000	50.2	100	NO
17	OCDF	1.81e5	4.84e5	0.89	0.91	NO	0.8065	41.93	41.93	NO	1.000	1.000	98.1	98.1	NO
18	13C-2,3,7,8-TCDD	6.21e5	5.40e5	0.77	0.79	NO	1.1563	26.54	26.51	NO	1.026	1.025	99.4	99.4	NO
19	13C-1,2,3,7,8-PeCDD	4.02e5	5.40e5	0.63	0.63	NO	0.8490	31.73	31.47	NO	1.227	1.217	87.6	87.6	NO
20	13C-1,2,3,4,7,8-HxCDD	2.68e5	3.63e5	1.24	1.29	NO	0.7790	34.84	34.84	NO	1.014	1.014	94.6	94.6	NO
21	13C-1,2,3,6,7,8-HxCDD	3.55e5	3.63e5	1.24	1.27	NO	1.0167	34.95	34.94	NO	1.017	1.017	96.1	96.1	NO



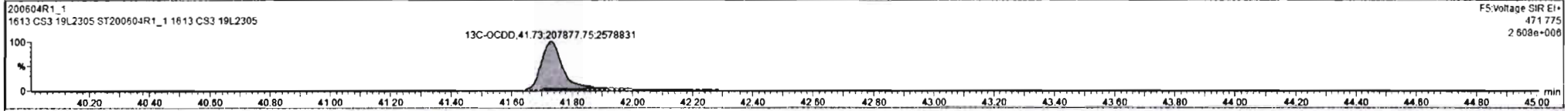
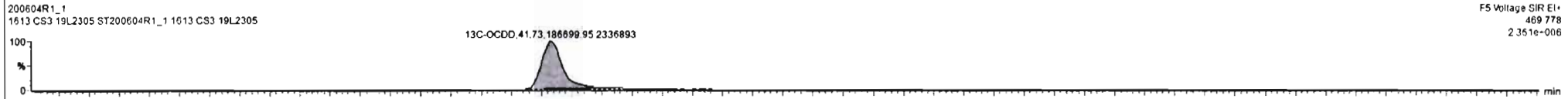
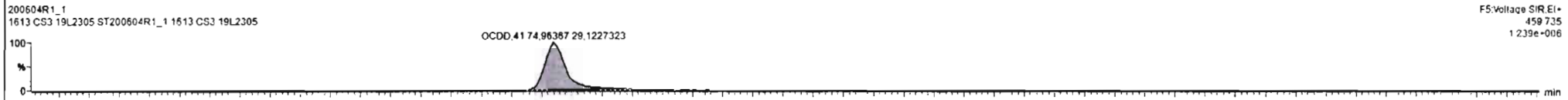
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Name: 200604R1_1, Date: 04-Jun-2020, Time: 08:13:02, ID: ST200604R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	2,3,7,8-TCDD	5.49e4	6.21e5	0.77	0.73	NO	0.8883	28.55	28.53	NO	1.001	1.001	9.95	99.5	NO
2	1,2,3,7,8-PeCDD	1.72e5	4.02e5	0.63	0.59	NO	0.9081	31.49	31.48	NO	1.001	1.000	47.2	94.4	NO
3	1,2,3,4,7,8-HxCDD	1.33e5	2.68e5	1.24	1.27	NO	1.0334	34.85	34.85	NO	1.000	1.000	47.9	95.9	NO
4	1,2,3,6,7,8-HxCDD	1.55e5	3.52e5	1.24	1.29	NO	0.8923	34.94	34.95	NO	1.000	1.000	49.0	98.0	NO
5	1,2,3,7,8,9-HxCDD	1.27e5	2.92e5	1.24	1.24	NO	0.8889	35.23	35.24	NO	1.000	1.001	49.0	98.1	NO
6	1,2,3,4,6,7,8-HpCDD	8.97e4	2.07e5	1.04	1.02	NO	0.8639	38.77	38.77	NO	1.000	1.000	50.3	101	NO
7	OCDD	1.80e5	3.95e5	0.89	0.88	NO	0.9130	41.73	41.72	NO	1.000	1.000	99.8	99.8	NO
8	2,3,7,8-TCDF	5.78e4	8.06e5	0.77	0.78	NO	0.7510	25.64	25.63	NO	1.001	1.001	9.56	95.6	NO
9	1,2,3,7,8-PeCDF	2.76e5	6.27e5	1.55	1.56	NO	0.8925	30.21	30.20	NO	1.001	1.001	49.3	96.6	NO
10	2,3,4,7,8-PeCDF	2.72e5	6.14e5	1.55	1.51	NO	0.9348	31.19	31.18	NO	1.001	1.000	47.4	94.9	NO
11	1,2,3,4,7,8-HxCDF	1.55e5	3.52e5	1.24	1.21	NO	0.8845	33.95	33.97	NO	1.000	1.001	49.9	99.7	NO
12	1,2,3,6,7,8-HxCDF	1.86e5	4.27e5	1.24	1.20	NO	0.8892	34.09	34.09	NO	1.000	1.000	49.1	98.2	NO
13	2,3,4,6,7,8-HxCDF	1.70e5	3.78e5	1.24	1.20	NO	0.9341	34.70	34.69	NO	1.001	1.001	48.0	96.0	NO
14	1,2,3,7,8-HxCDF	1.28e5	3.06e5	1.24	1.20	NO	0.8707	35.58	35.60	NO	1.000	1.001	48.2	96.3	NO
15	1,2,3,4,6,7,8-HpCDF	1.16e5	2.52e5	1.04	1.01	NO	0.8734	37.39	37.37	NO	1.001	1.001	52.9	106	NO
16	1,2,3,4,7,8,9-HpCDF	8.59e4	1.69e5	1.04	0.99	NO	1.0128	39.31	39.31	NO	1.000	1.000	50.2	100	NO
17	OCDF	1.91e5	4.84e5	0.89	0.91	NO	0.8065	41.93	41.93	NO	1.000	1.000	98.1	98.1	NO
18	13C-2,3,7,8-TCDD	6.21e5	5.40e5	0.77	0.79	NO	1.1563	28.54	28.51	NO	1.026	1.025	99.4	99.4	NO
19	13C-1,2,3,7,8-PeCDD	4.02e5	5.40e5	0.63	0.63	NO	0.8490	31.73	31.47	NO	1.227	1.217	87.6	87.6	NO
20	13C-1,2,3,4,7,8-HxCDD	2.68e5	3.63e5	1.24	1.29	NO	0.7790	34.84	34.84	NO	1.014	1.014	94.6	94.6	NO
21	13C-1,2,3,6,7,8-HxCDD	3.55e5	3.63e5	1.24	1.27	NO	1.0167	34.95	34.94	NO	1.017	1.017	96.1	96.1	NO



Ready

200604R1_1

CAP NUM

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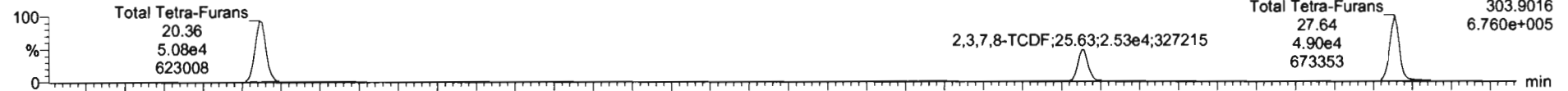
Last Altered: Thursday, June 04, 2020 09:03:38 Pacific Daylight Time

Printed: Thursday, June 04, 2020 09:03:43 Pacific Daylight Time

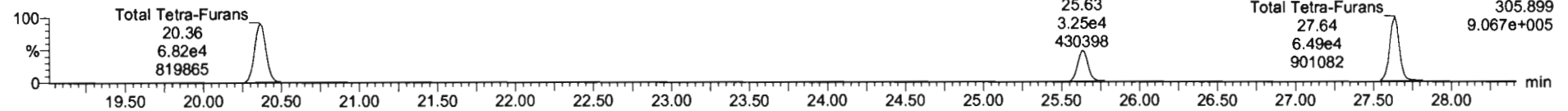
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2,3,7,8-TCDF

200604R1_1

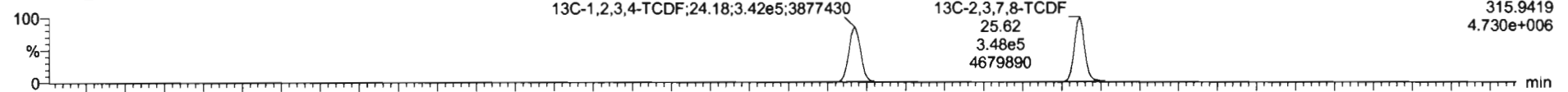


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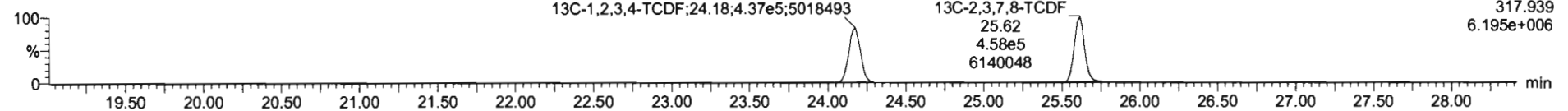


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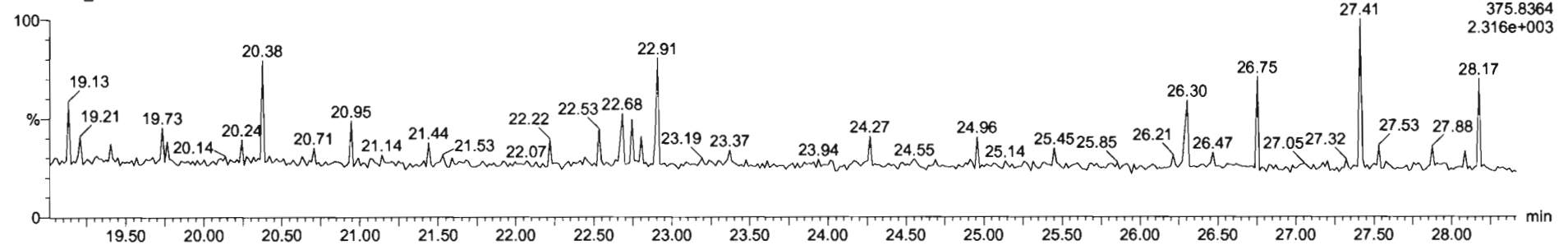


200604R1_1



DPE1

200604R1_1



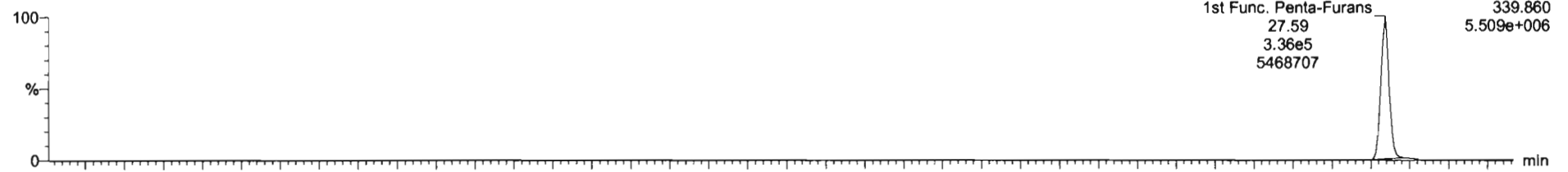
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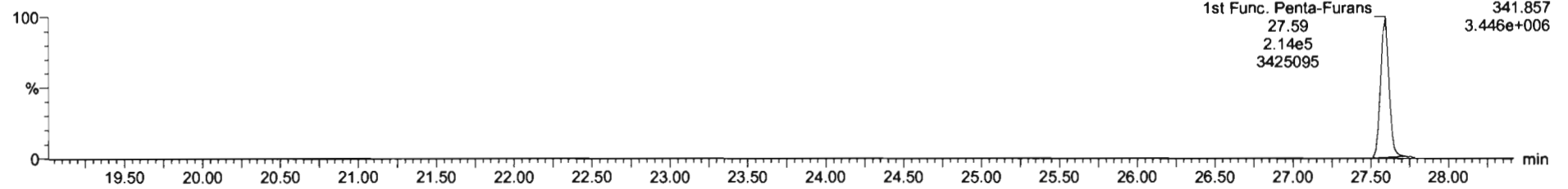
Name: 200604R1_1, Date: 04-Jun-2020, Time: 08:13:02, ID: ST200604R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200604R1_1

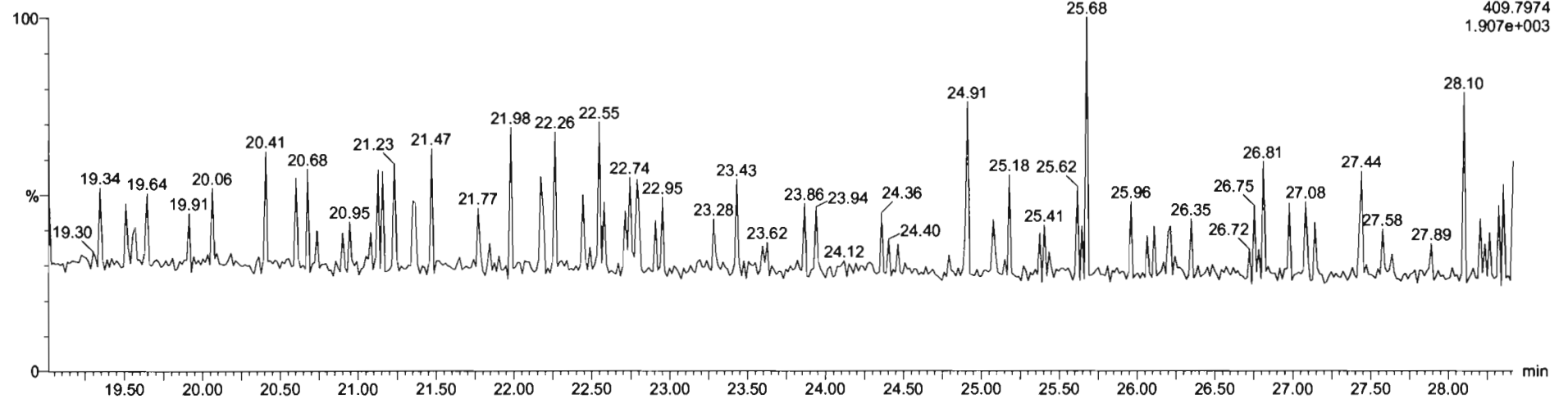


200604R1_1



DPE6

200604R1_1



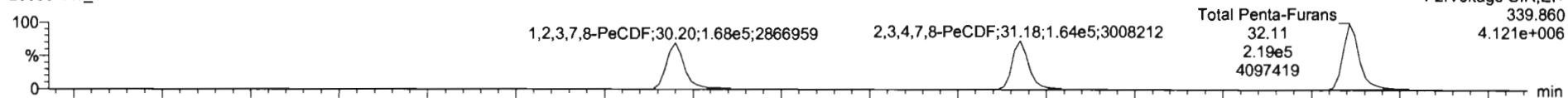
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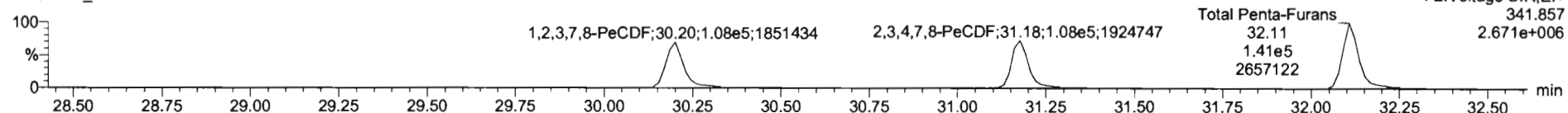
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1,2,3,7,8-PeCDF

200604R1_1

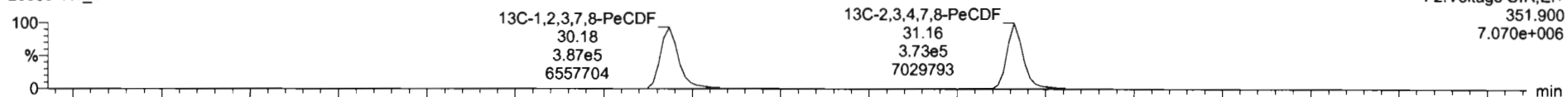


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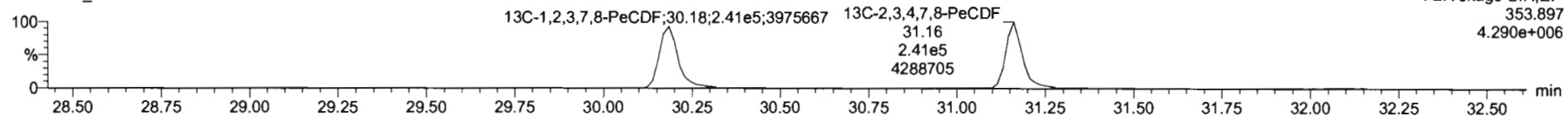


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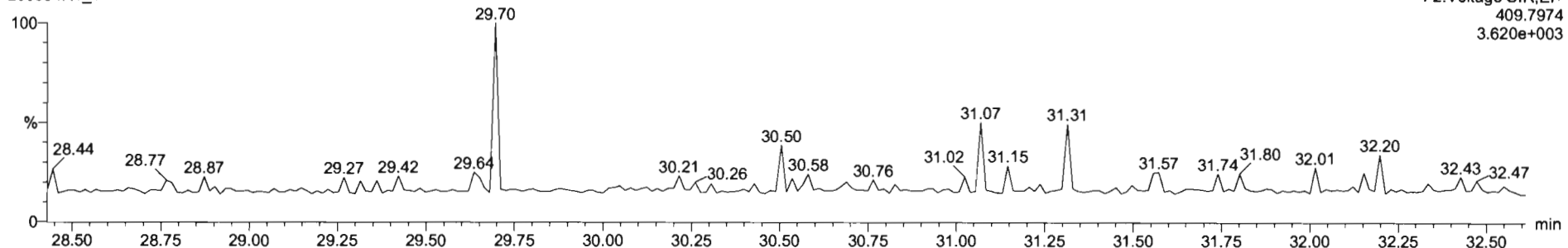


200604R1_1



DPE2

200604R1_1

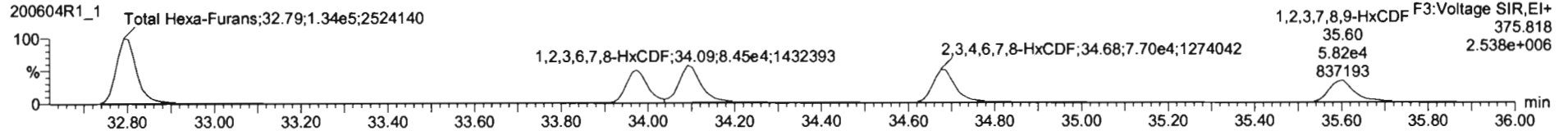
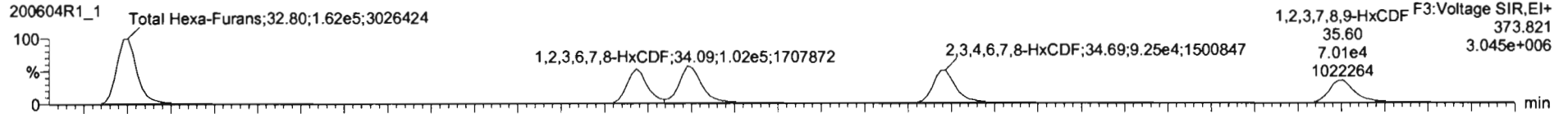


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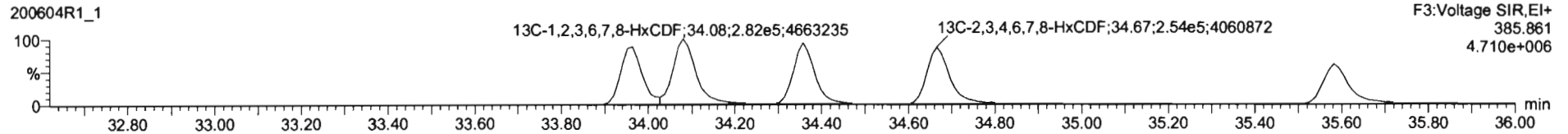
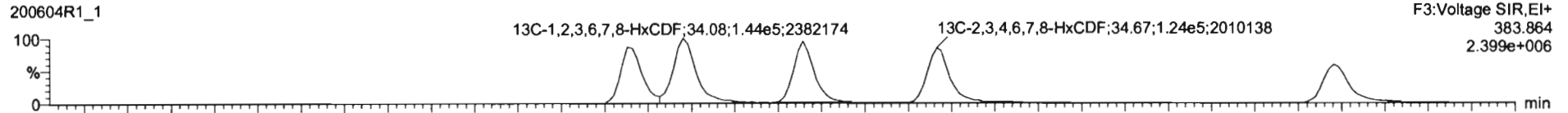
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Name: 200604R1_1, Date: 04-Jun-2020, Time: 08:13:02, ID: ST200604R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

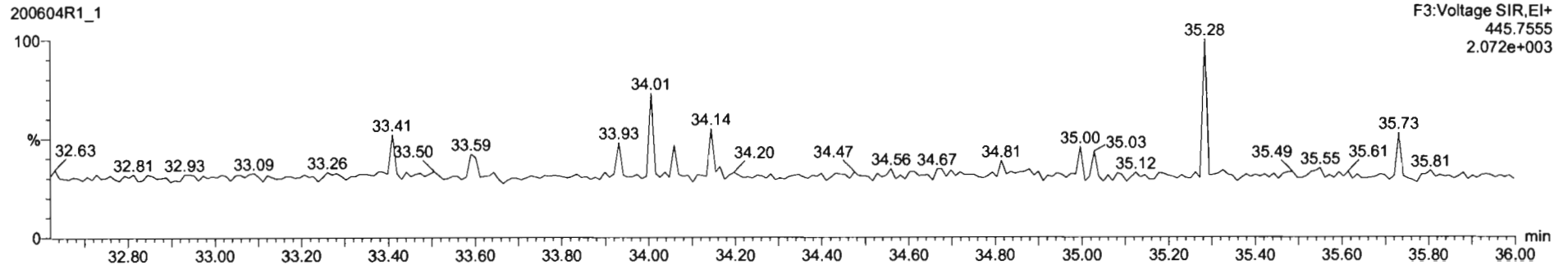
1,2,3,4,7,8-HxCDF



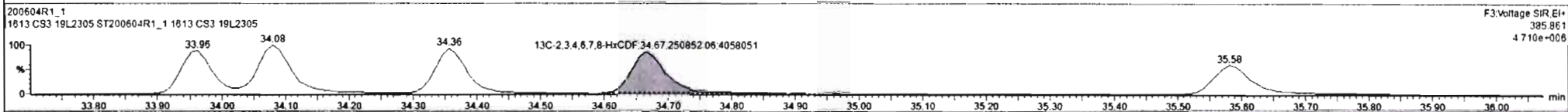
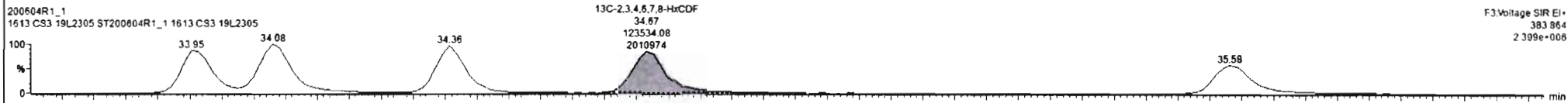
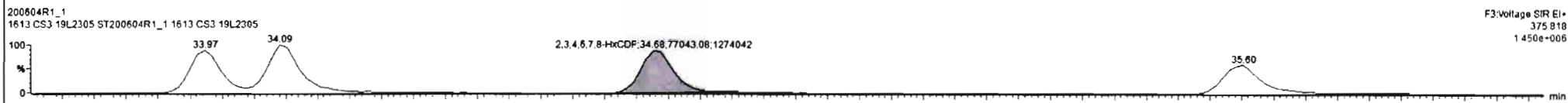
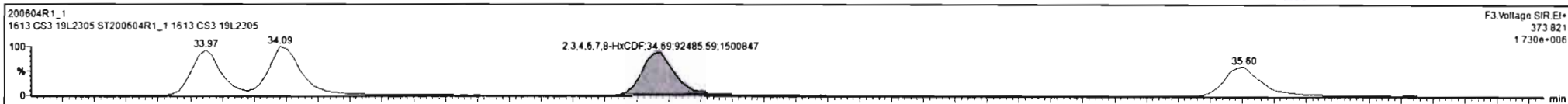
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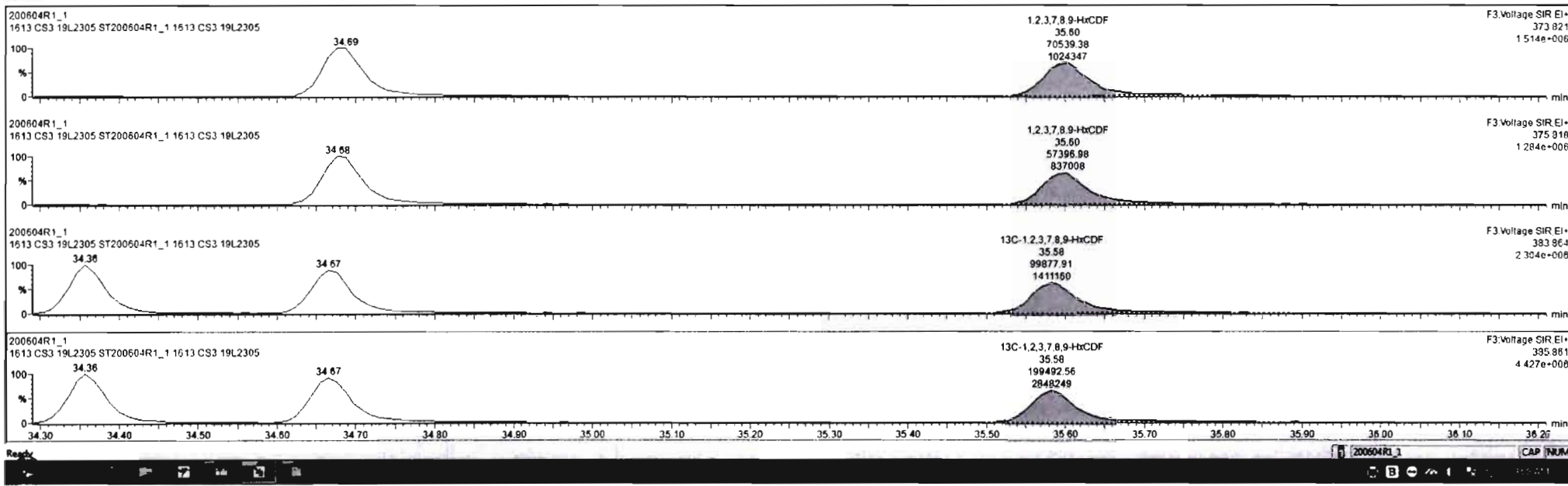
DPE3



#	Name	Resp	IS Resp	Pred RA	RA	rv	RPF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	5.49e4	6.21e5	0.77	0.73	NO	0.8883	26.55	26.53	NO	1.001	1.001	9.95	99.5	NO
2	1,2,3,7,8-PeCDD	1.72e5	4.02e5	0.63	0.59	NO	0.9081	31.49	31.48	NO	1.001	1.000	47.2	94.4	NO
3	1,2,3,4,7,8-HxCDD	1.33e5	2.66e5	1.24	1.27	NO	1.0334	34.85	34.85	NO	1.000	1.000	47.9	95.9	NO
4	1,2,3,6,7,8-HxCDD	1.55e5	3.55e5	1.24	1.29	NO	0.8923	34.94	34.95	NO	1.000	1.000	49.0	98.0	NO
5	1,2,3,7,8,9-HxCDD	1.27e5	2.92e5	1.24	1.24	NO	0.8869	35.23	35.24	NO	1.000	1.001	49.0	98.1	NO
6	1,2,3,4,6,7,8-HpCDD	8.97e4	2.07e5	1.04	1.02	NO	0.9539	36.77	36.77	NO	1.000	1.000	50.3	101	NO
7	OCDD	1.80e5	3.95e5	0.89	0.86	NO	0.9136	41.73	41.74	NO	1.000	1.000	99.6	99.6	NO
8	2,3,7,8-TCDF	5.78e4	8.06e5	0.77	0.78	NO	0.7510	25.64	25.83	NO	1.001	1.001	9.56	95.6	NO
9	1,2,3,7,8-PeCDF	2.76e5	6.27e5	1.55	1.56	NO	0.8925	30.21	30.20	NO	1.001	1.001	49.3	98.6	NO
10	2,3,4,7,8-PeCDF	2.72e5	6.14e5	1.55	1.51	NO	0.9348	31.19	31.18	NO	1.001	1.000	47.4	94.9	NO
11	1,2,3,4,7,8-HxCDF	1.55e5	3.52e5	1.24	1.21	NO	0.8845	33.95	33.97	NO	1.000	1.001	49.9	99.7	NO
12	1,2,3,6,7,8-HxCDF	1.96e5	4.27e5	1.24	1.20	NO	0.8892	34.09	34.09	NO	1.000	1.000	49.1	98.2	NO
13	2,3,4,6,7,8-HxCDF	1.70e5	3.74e5	1.24	1.20	NO	0.9341	34.78	34.69	NO	1.001	1.001	48.5	97.0	NO
14	1,2,3,7,8,9-HxCDF	1.28e5	3.06e5	1.24	1.20	NO	0.8707	35.58	35.60	NO	1.000	1.001	48.2	96.3	NO
15	1,2,3,4,6,7,8-HpCDF	1.16e5	2.52e5	1.04	1.01	NO	0.8734	37.39	37.37	NO	1.001	1.001	52.9	106	NO
16	1,2,3,4,7,8,9-HpCDF	8.59e4	1.69e5	1.04	0.99	NO	1.0128	39.31	39.31	NO	1.000	1.000	50.2	100	NO
17	OCDF	1.91e5	4.84e5	0.89	0.91	NO	0.8085	41.93	41.93	NO	1.000	1.000	98.1	98.1	NO
18	13C-2,3,7,8-TCDD	6.21e5	5.40e5	0.77	0.79	NO	1.1563	26.54	26.51	NO	1.026	1.025	99.4	99.4	NO
19	13C-1,2,3,7,8-PeCDD	4.02e5	5.40e5	0.63	0.63	NO	0.8490	31.73	31.47	NO	1.227	1.217	87.6	87.6	NO
20	13C-1,2,3,4,7,8-HxCDD	2.66e5	3.63e5	1.24	1.29	NO	0.7790	34.84	34.84	NO	1.014	1.014	94.6	94.6	NO
21	13C-1,2,3,6,7,8-HxCDD	3.55e5	3.63e5	1.24	1.27	NO	1.0167	34.95	34.94	NO	1.017	1.017	96.1	96.1	NO



#	#	Name	Resp	IS Resp	Prod RA	RA	n/y	RRF	Prod RT	RT	RT Flag	Prod RRT	RRT	Conc	%Rec	STD out
1	1	2,3,7,8-TCDD	5.49e4	6.21e5	0.77	0.73	NO	0.6883	26.55	26.53	NO	1.001	1.001	9.95	99.5	NO
2	2	1,2,3,7,8-PeCDD	1.72e5	4.02e5	0.63	0.59	NO	0.9061	31.49	31.48	NO	1.001	1.000	47.2	94.4	NO
3	3	1,2,3,4,7,8-HxCDD	1.33e5	2.66e5	1.24	1.27	NO	1.0334	34.85	34.85	NO	1.000	1.000	47.9	95.9	NO
4	4	1,2,3,6,7,8-HxCDD	1.55e5	3.55e5	1.24	1.29	NO	0.8923	34.94	34.95	NO	1.000	1.000	49.0	98.0	NO
5	5	1,2,3,7,8,9-HxCDD	1.27e5	2.92e5	1.24	1.24	NO	0.8869	35.23	35.24	NO	1.000	1.001	49.0	98.1	NO
6	6	1,2,3,4,8,9-HxCDD	8.97e4	2.07e5	1.04	1.02	NO	0.8639	38.77	38.77	NO	1.000	1.000	50.3	101	NO
7	7	OCDD	1.80e5	3.95e5	0.89	0.86	NO	0.9136	41.73	41.74	NO	1.000	1.000	99.8	99.8	NO
8	8	2,3,7,8-TCDF	5.78e4	6.06e5	0.77	0.78	NO	0.7510	25.64	25.63	NO	1.001	1.001	9.56	95.6	NO
9	9	1,2,3,7,8-PeCDF	2.76e5	6.27e5	1.55	1.56	NO	0.8925	30.21	30.20	NO	1.001	1.001	49.3	98.6	NO
10	10	2,3,4,7,8-PeCDF	2.72e5	6.14e5	1.55	1.51	NO	0.9348	31.19	31.18	NO	1.001	1.000	47.4	94.9	NO
11	11	1,2,3,4,7,8-HxCDF	1.55e5	3.52e5	1.24	1.21	NO	0.8845	33.95	33.97	NO	1.000	1.001	49.9	99.7	NO
12	12	1,2,3,6,7,8-HxCDF	1.86e5	4.27e5	1.24	1.20	NO	0.8892	34.09	34.09	NO	1.000	1.000	49.1	98.2	NO
13	13	2,3,4,6,7,8-HxCDF	1.70e5	3.74e5	1.24	1.20	NO	0.9341	34.70	34.69	NO	1.001	1.001	48.5	97.9	NO
14	14	1,2,3,7,8,9-HxCDF	1.28e5	2.89e5	1.24	1.23	NO	0.8707	35.58	35.80	NO	1.000	1.001	48.1	98.2	NO
15	15	1,2,3,4,8,9-HpCDF	1.16e5	2.52e5	1.04	1.01	NO	0.8734	37.39	37.37	NO	1.001	1.001	52.9	106	NO
16	16	1,2,3,4,7,8,9-HpCDF	8.58e4	1.69e5	1.04	0.99	NO	1.0128	39.31	39.31	NO	1.000	1.000	50.2	100	NO
17	17	OCDF	1.91e5	4.84e5	0.89	0.91	NO	0.8065	41.93	41.93	NO	1.000	1.000	98.1	98.1	NO
18	18	13C-2,3,7,8-TCDD	8.21e5	5.40e5	0.77	0.79	NO	1.1563	26.54	26.51	NO	1.026	1.025	99.4	99.4	NO
19	19	13C-1,2,3,7,8-PeCDD	4.02e5	5.40e5	0.63	0.63	NO	0.8490	31.73	31.47	NO	1.227	1.217	87.6	87.6	NO
20	20	13C-1,2,3,4,7,8-HxCDD	2.88e5	3.63e5	1.24	1.29	NO	0.7790	34.84	34.84	NO	1.014	1.014	94.6	94.6	NO
21	21	13C-1,2,3,6,7,8-HxCDD	3.55e5	3.63e5	1.24	1.27	NO	1.0167	34.95	34.94	NO	1.017	1.017	96.1	96.1	NO



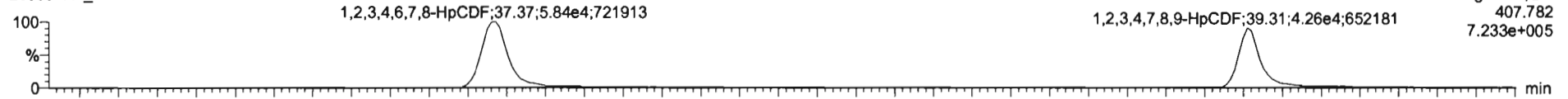
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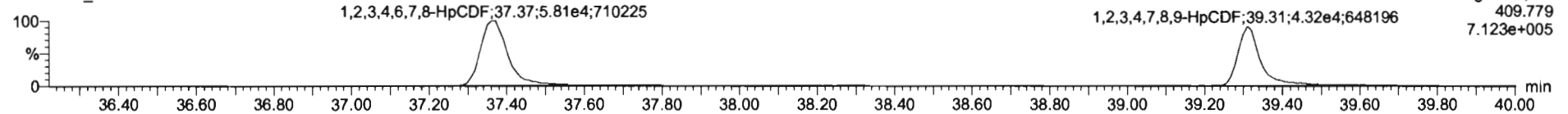
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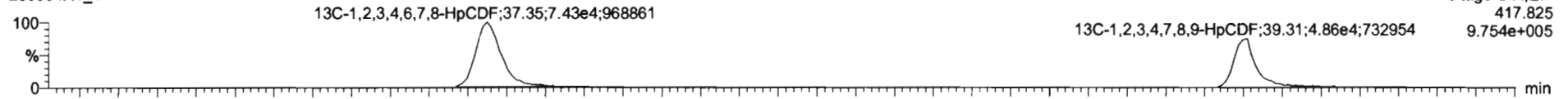


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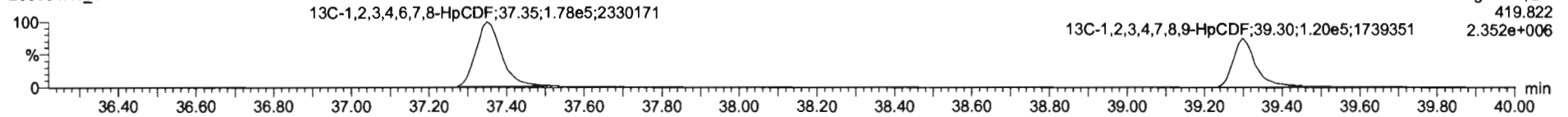


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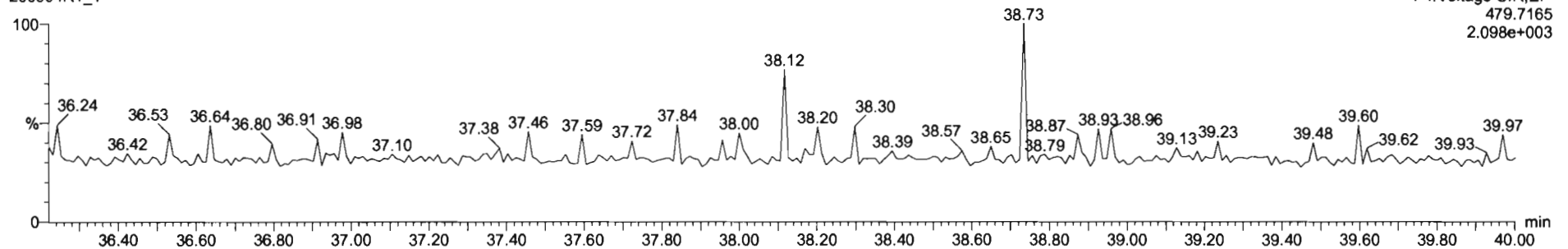


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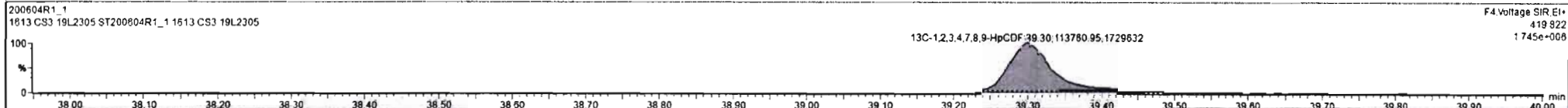
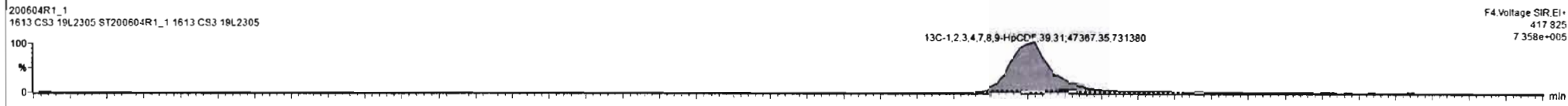
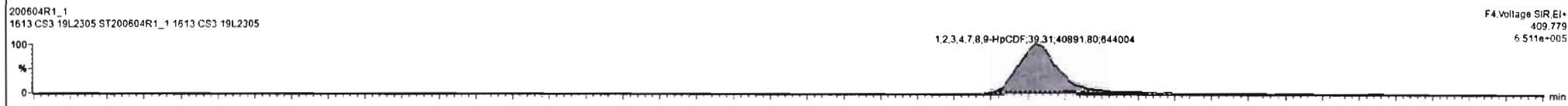
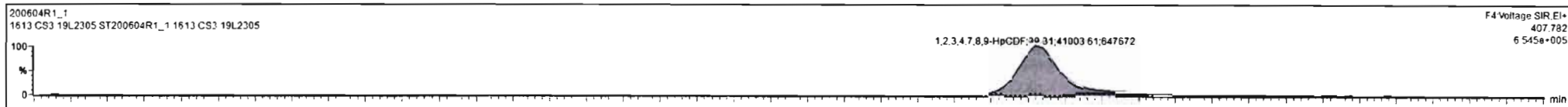


DPE4

200604R1_1



#	Name	Resp	IS Resp	Pred RA	RA	isy	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	5.49e4	6.21e5	0.77	0.73	NO	0.8883	26.55	26.53	NO	1.001	1.001	9.95	99.5	NO
2	1,2,3,7,8-PeCDD	1.72e5	4.02e5	0.63	0.59	NO	0.9081	31.49	31.48	NO	1.001	1.000	47.2	94.4	NO
3	1,2,3,4,7,8-HxCDD	1.33e5	2.68e5	1.24	1.27	NO	1.0334	34.85	34.85	NO	1.000	1.000	47.9	95.9	NO
4	1,2,3,6,7,8-HxCDD	1.55e5	3.55e5	1.24	1.29	NO	0.8923	34.94	34.95	NO	1.000	1.000	49.0	98.0	NO
5	1,2,3,7,8,9-HxCDD	1.27e5	2.92e5	1.24	1.24	NO	0.8889	35.23	35.24	NO	1.000	1.001	49.0	98.1	NO
6	1,2,3,4,6,7,8-HpCDD	8.97e4	2.07e5	1.04	1.02	NO	0.9639	38.77	38.77	NO	1.000	1.000	50.3	101	NO
7	OCDD	1.80e5	3.95e5	0.89	0.88	NO	0.9136	41.73	41.74	NO	1.000	1.000	99.6	99.6	NO
8	1,2,3,7,8-TCDF	5.78e4	8.06e5	0.77	0.78	NO	0.7510	25.64	25.63	NO	1.001	1.001	9.56	95.6	NO
9	1,2,3,7,8-PeCDF	2.76e5	6.27e5	1.55	1.56	NO	0.8925	30.21	30.20	NO	1.001	1.001	49.3	98.6	NO
10	1,2,3,4,7,8-PeCDF	2.72e5	6.14e5	1.55	1.51	NO	0.9348	31.19	31.18	NO	1.001	1.000	47.4	94.9	NO
11	1,2,3,4,7,8-HxCDF	1.55e5	3.52e5	1.24	1.21	NO	0.8845	33.95	33.97	NO	1.000	1.001	49.9	99.7	NO
12	1,2,3,6,7,8-HxCDF	1.86e5	4.27e5	1.24	1.20	NO	0.8892	34.09	34.09	NO	1.000	1.000	49.1	98.2	NO
13	1,2,3,4,6,7,8-HxCDF	1.70e5	3.74e5	1.24	1.20	NO	0.9341	34.70	34.69	NO	1.001	1.001	48.5	97.0	NO
14	1,2,3,7,8,9-HxCDF	1.28e5	2.99e5	1.24	1.23	NO	0.8707	35.56	35.60	NO	1.000	1.001	49.1	98.2	NO
15	1,2,3,4,6,7,8-HpCDF	1.18e5	2.52e5	1.04	1.01	NO	0.8734	37.39	37.37	NO	1.001	1.001	52.9	106	NO
16	1,2,3,4,7,8,9-HpCDF	8.19e4	1.81e5	1.04	1.00	NO	1.0128	39.31	39.31	NO	1.000	1.000	90.2	100	NO
17	OCDF	1.91e5	4.84e5	0.89	0.91	NO	0.8065	41.93	41.93	NO	1.000	1.000	98.1	98.1	NO
18	13C-1,2,3,7,8-TCDD	6.21e5	5.40e5	0.77	0.79	NO	1.1563	26.54	26.51	NO	1.026	1.025	99.4	99.4	NO
19	13C-1,2,3,7,8-PeCDD	4.02e5	5.40e5	0.63	0.63	NO	0.8490	31.73	31.47	NO	1.227	1.217	87.6	87.6	NO
20	13C-1,2,3,4,7,8-HxCDD	2.68e5	3.63e5	1.24	1.29	NO	0.7790	34.84	34.84	NO	1.014	1.014	94.6	94.6	NO
21	13C-1,2,3,6,7,8-HxCDD	3.55e5	3.63e5	1.24	1.27	NO	1.0187	34.95	34.94	NO	1.017	1.017	96.1	96.1	NO



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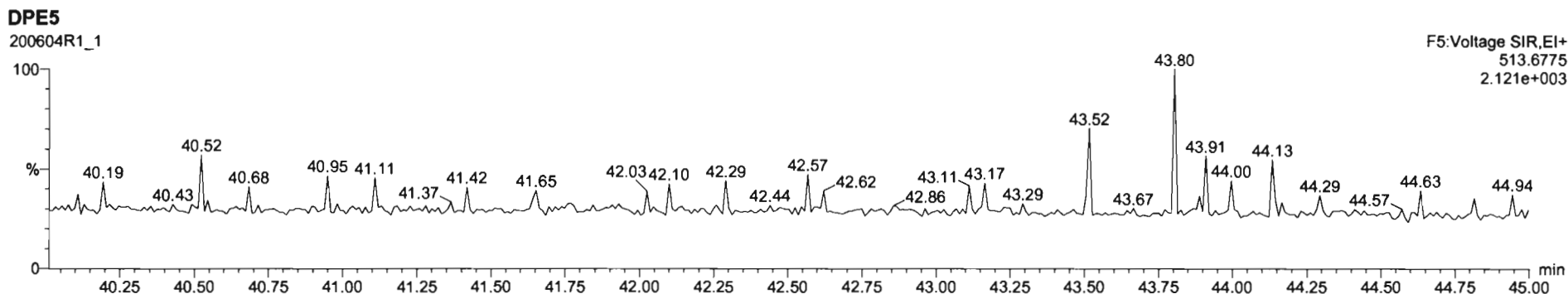
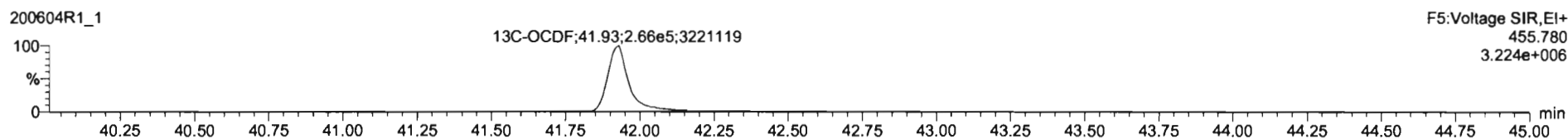
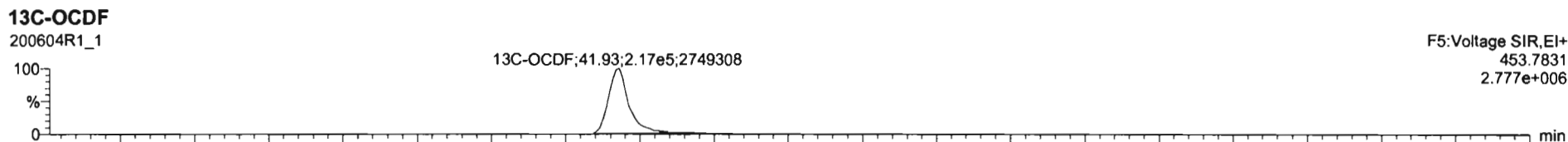
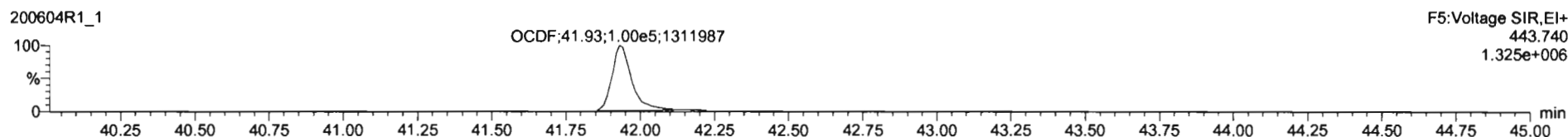
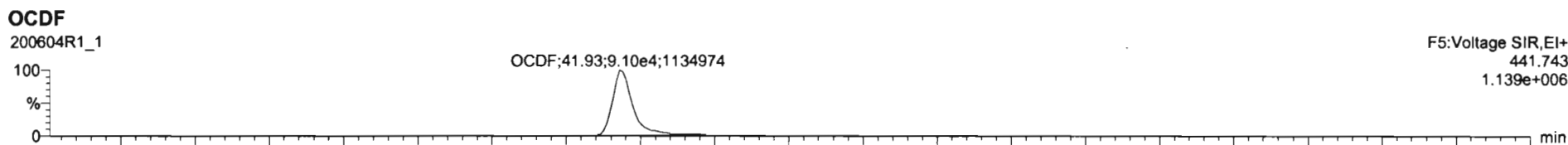
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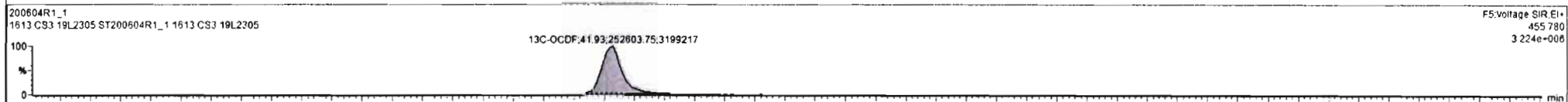
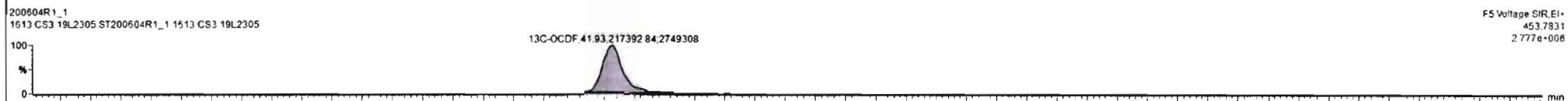
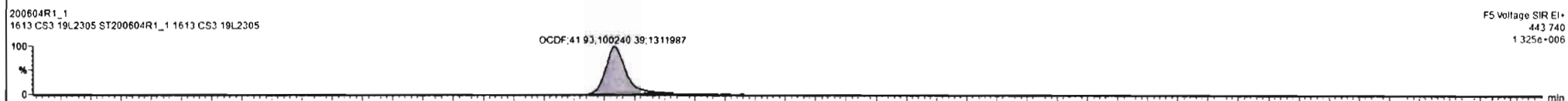
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Name: 200604R1_1, Date: 04-Jun-2020, Time: 08:13:02, ID: ST200604R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



#	Name	Resp	IS Resp	Pred RA	RA	nly	RPF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	5.49e4	6.21e5	0.77	0.73	NO	0.8883	28.55	28.53	NO	1.001	1.001	9.95	99.5	NO
2	1,2,3,7,8-PeCDD	1.72e5	4.02e5	0.63	0.59	NO	0.9081	31.49	31.46	NO	1.001	1.000	47.2	94.4	NO
3	1,2,3,4,7,8-HxCDD	1.33e5	2.68e5	1.24	1.27	NO	1.0334	34.85	34.85	NO	1.000	1.000	47.9	95.9	NO
4	1,2,3,6,7,8-HxCDD	1.55e5	3.55e5	1.24	1.29	NO	0.8923	34.94	34.95	NO	1.000	1.000	49.0	98.0	NO
5	1,2,3,7,8,9-HxCDD	1.27e5	2.92e5	1.24	1.24	NO	0.8869	35.23	35.24	NO	1.000	1.001	49.0	98.1	NO
6	1,2,3,4,6,7,8-HpCDD	8.97e4	2.07e5	1.04	1.02	NO	0.8639	36.77	36.77	NO	1.000	1.000	50.3	101	NO
7	OCDD	1.80e5	3.95e5	0.89	0.86	NO	0.9136	41.73	41.74	NO	1.000	1.000	99.8	99.8	NO
8	2,3,7,8-TCDF	5.78e4	8.06e5	0.77	0.78	NO	0.7510	25.64	25.63	NO	1.001	1.001	9.56	95.6	NO
9	1,2,3,7,8-PeCDF	2.76e5	6.27e5	1.55	1.56	NO	0.8925	30.21	30.20	NO	1.001	1.001	49.3	98.6	NO
10	1,2,3,4,7,8-PeCDF	2.72e5	6.14e5	1.55	1.51	NO	0.9348	31.19	31.18	NO	1.001	1.000	47.4	94.9	NO
11	1,2,3,4,7,8-HxCDF	1.55e5	3.52e5	1.24	1.21	NO	0.8845	33.95	33.97	NO	1.000	1.001	49.9	99.7	NO
12	1,2,3,6,7,8-HxCDF	1.86e5	4.27e5	1.24	1.20	NO	0.8892	34.09	34.09	NO	1.000	1.000	49.1	98.2	NO
13	2,3,4,6,7,8-HxCDF	1.70e5	3.74e5	1.24	1.20	NO	0.9341	34.70	34.69	NO	1.001	1.001	48.5	97.0	NO
14	1,2,3,7,8,9-HxCDF	1.28e5	2.99e5	1.24	1.23	NO	0.8707	35.58	35.60	NO	1.000	1.001	49.1	98.2	NO
15	1,2,3,4,6,7,8-HpCDF	1.16e5	2.52e5	1.04	1.01	NO	0.8734	37.39	37.37	NO	1.001	1.001	52.9	108	NO
16	1,2,3,4,7,8,9-HpCDF	8.19e4	1.61e5	1.04	1.00	NO	1.0128	39.31	39.31	NO	1.000	1.000	56.2	160	NO
17	OCDF	1.90e5	4.79e5	0.89	0.88	NO	0.8685	41.93	41.93	NO	1.000	1.000	98.2	98.2	NO
18	13C-2,3,7,8-TCDD	6.21e5	5.49e5	0.77	0.79	NO	1.1563	28.54	28.51	NO	1.026	1.025	99.4	99.4	NO
19	13C-1,2,3,7,8-PeCDD	4.02e5	5.40e5	0.63	0.63	NO	0.8490	31.73	31.47	NO	1.227	1.217	87.6	87.6	NO
20	13C-1,2,3,4,7,8-HxCDD	2.68e5	3.63e5	1.24	1.29	NO	0.7790	34.84	34.84	NO	1.014	1.014	94.6	94.6	NO
21	13C-1,2,3,7,8,9-HxCDD	3.55e5	3.63e5	1.24	1.27	NO	1.0167	34.95	34.94	NO	1.017	1.017	96.1	96.1	NO



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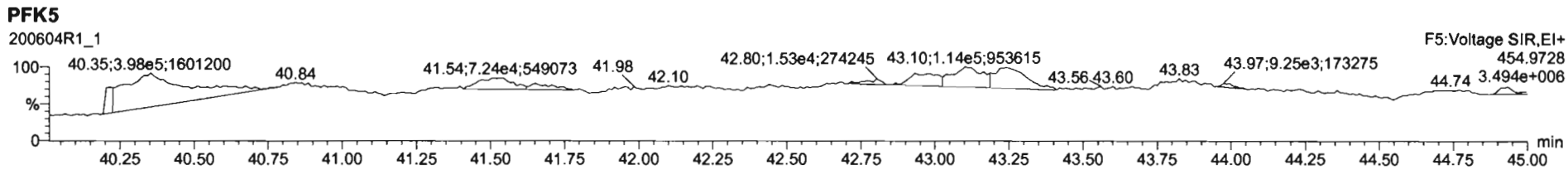
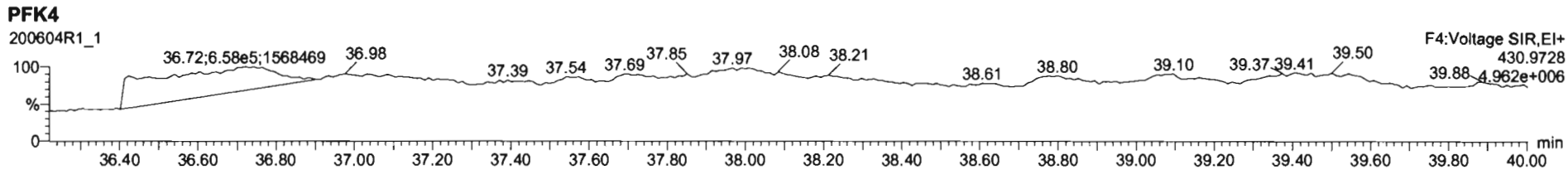
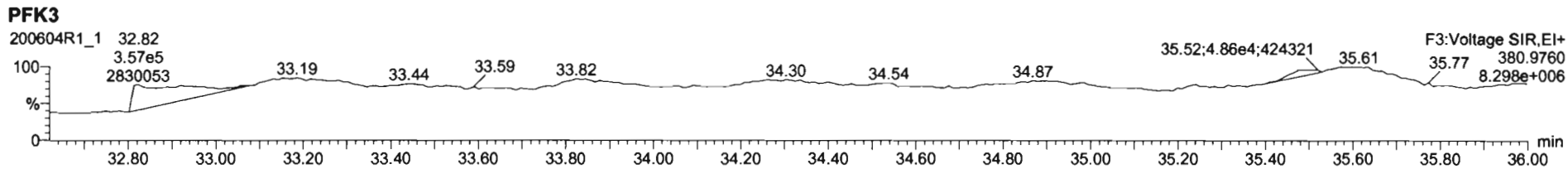
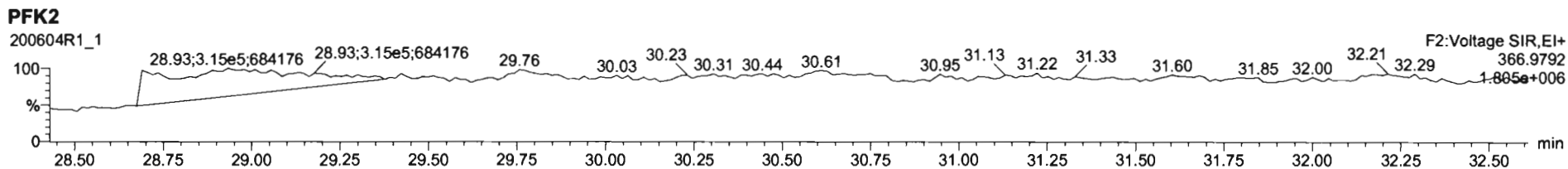
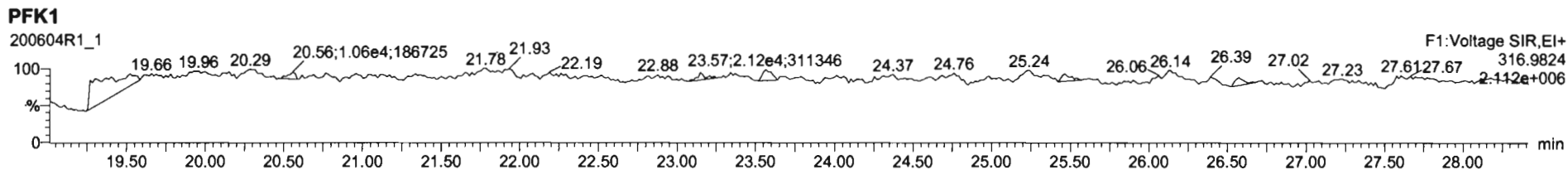
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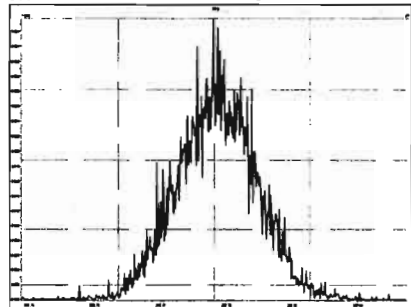
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Name: 200604R1_1, Date: 04-Jun-2020, Time: 08:13:02, ID: ST200604R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

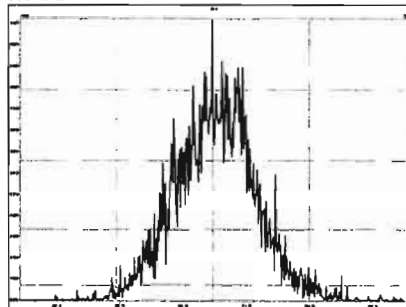


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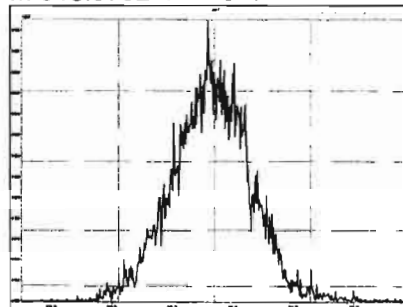
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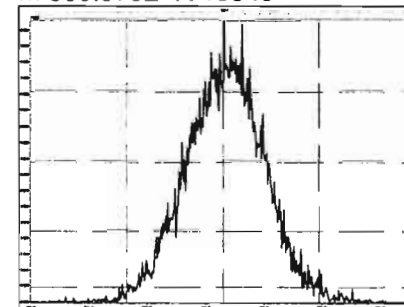
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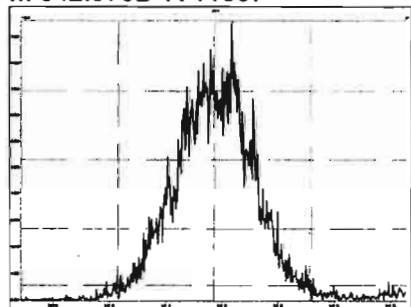
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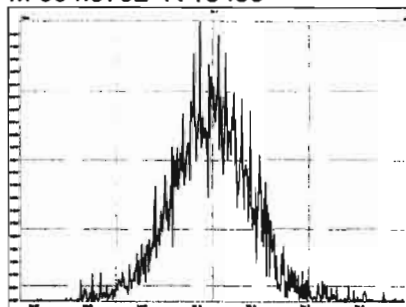
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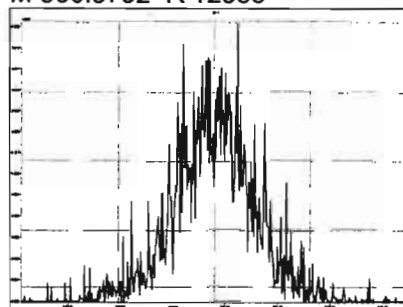
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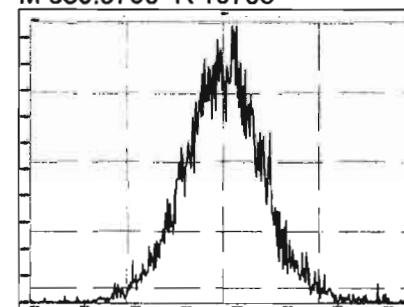
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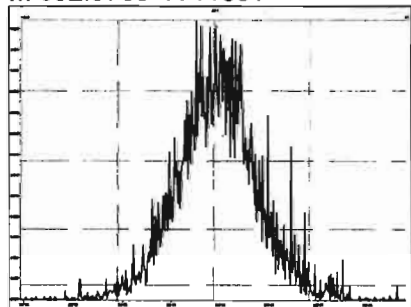
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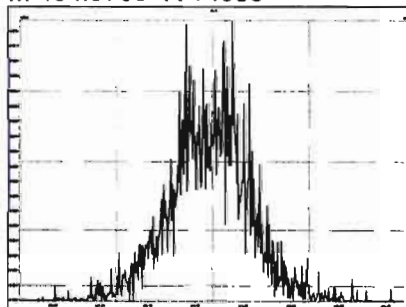
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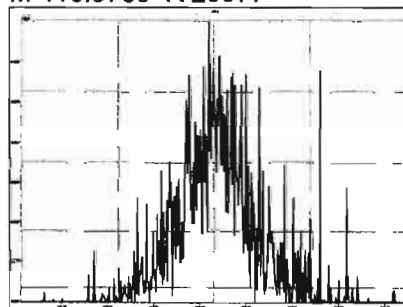
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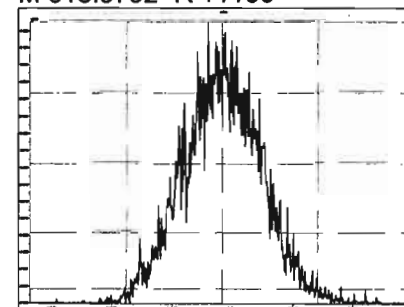
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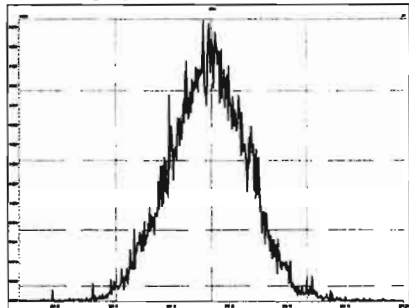


M 318.9792 R 11163

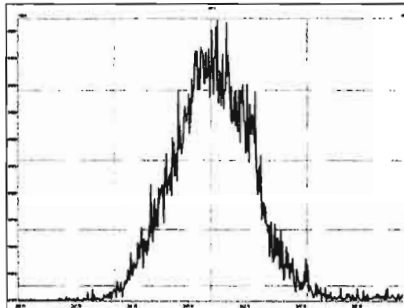


Printed: Thursday, June 04, 2020 19:59:34 Pacific Daylight Time

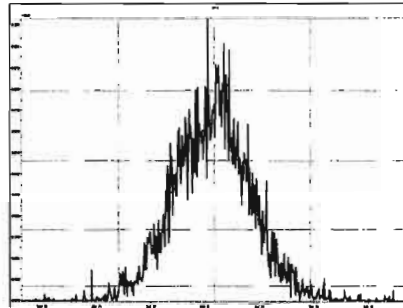
M 330.9792 R 11240



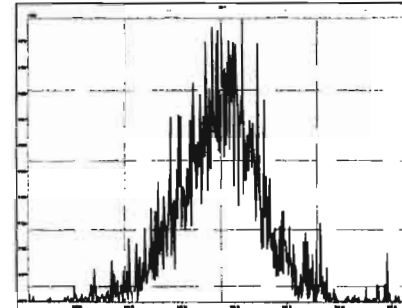
M 342.9792 R 11608



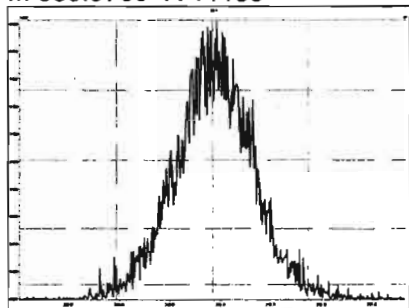
M 354.9792 R 11860



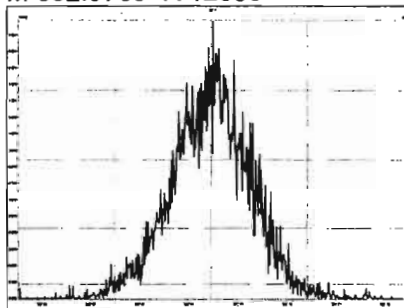
M 366.9792 R 12877



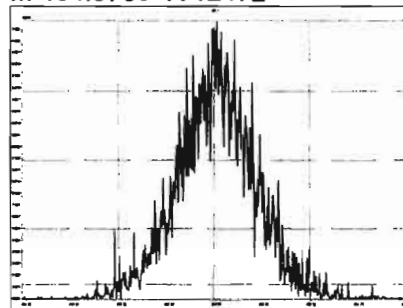
M 380.9760 R 11135



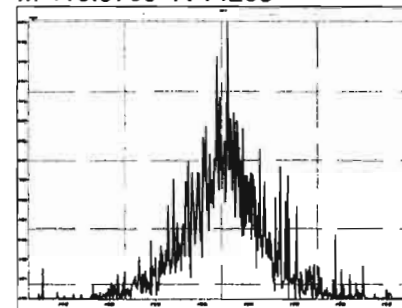
M 392.9760 R 12090



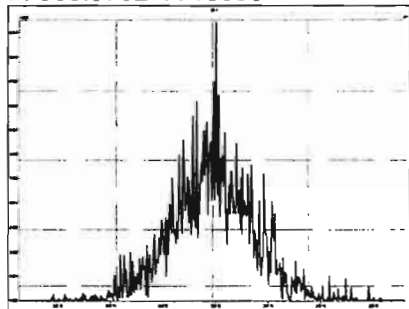
M 404.9760 R 12472



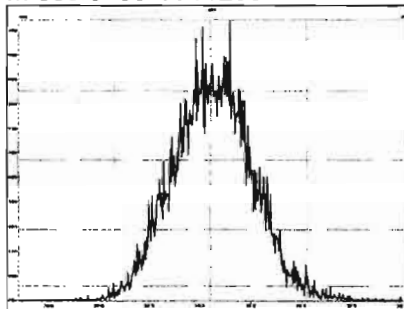
M 416.9760 R 14253



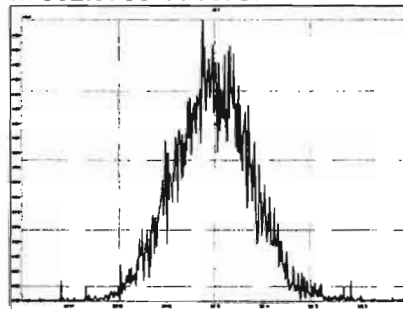
M 366.9792 R 13909



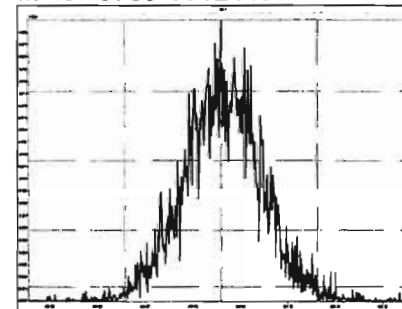
M 380.9760 R 11290



M 392.9760 R 11737

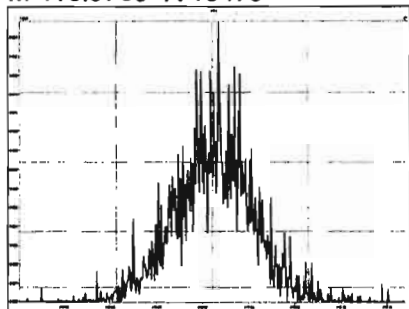


M 404.9760 R 12440

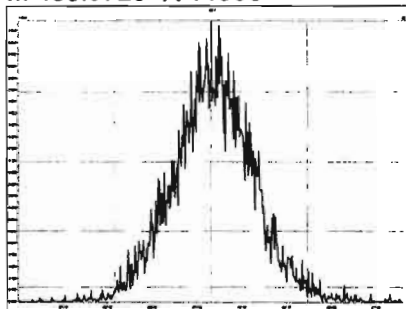


Printed: Thursday, June 04, 2020 19:59:34 Pacific Daylight Time

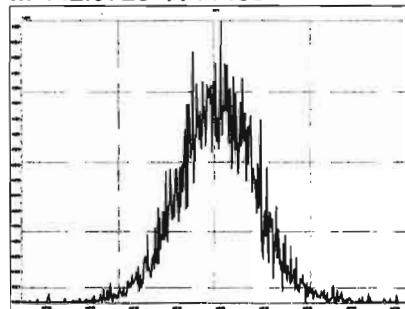
M 416.9760 R 13479



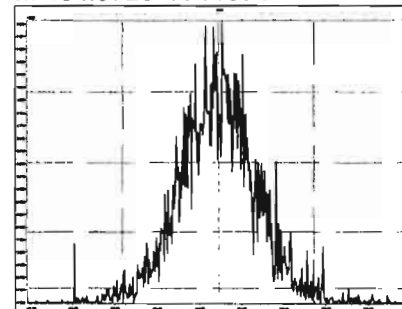
M 430.9728 R 11096



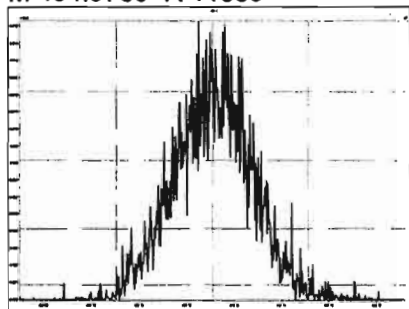
M 442.9728 R 11485



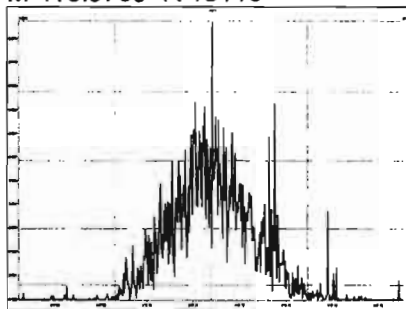
M 454.9728 R 11971



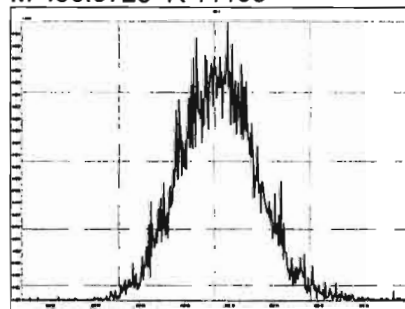
M 404.9760 R 11839



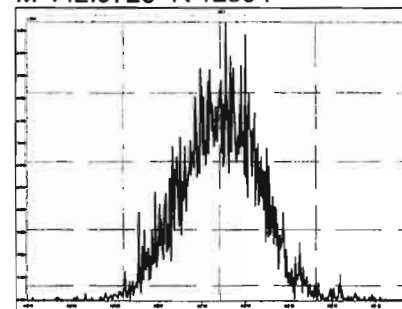
M 416.9760 R 15113



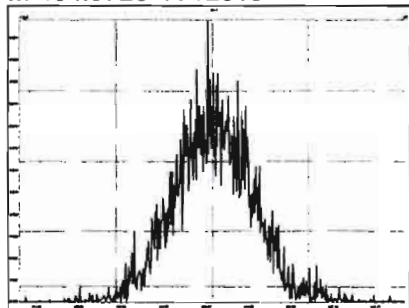
M 430.9728 R 11106



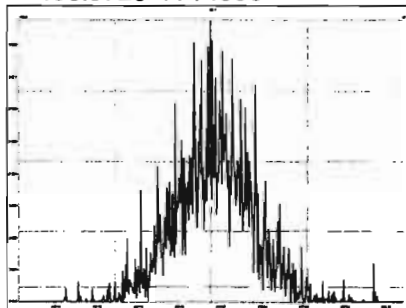
M 442.9728 R 12504



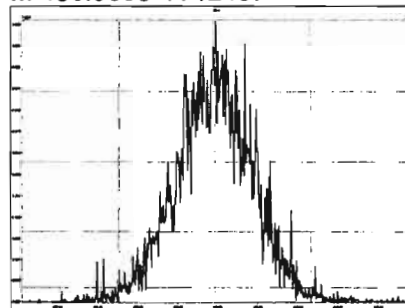
M 454.9728 R 12019



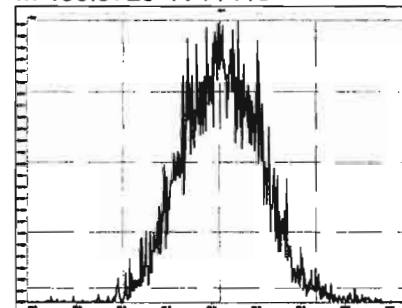
M 466.9728 R 14006



M 480.9696 R 12407

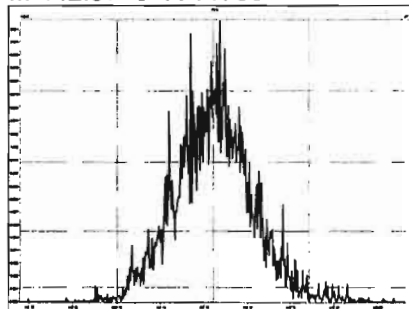


M 430.9728 R 11415

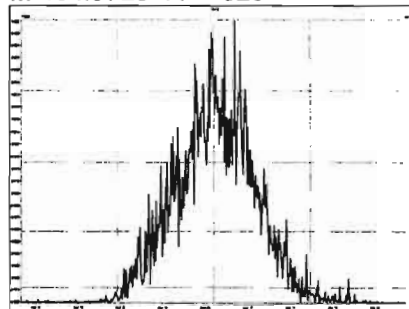


Printed: Thursday, June 04, 2020 19:59:34 Pacific Daylight Time

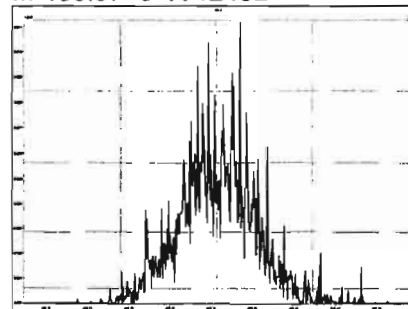
M 442.9728 R 11798



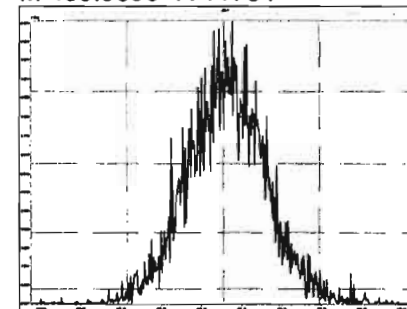
M 454.9728 R 11823



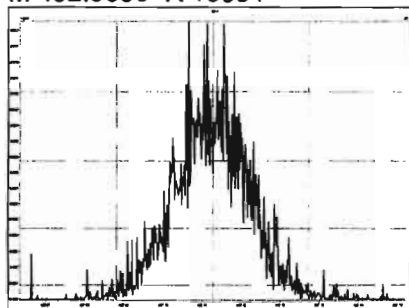
M 466.9728 R 12452



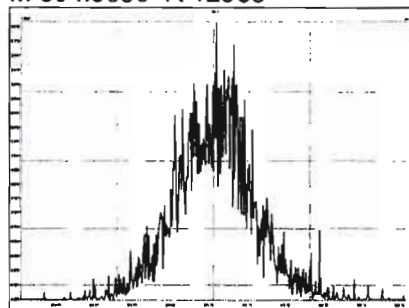
M 480.9696 R 11764



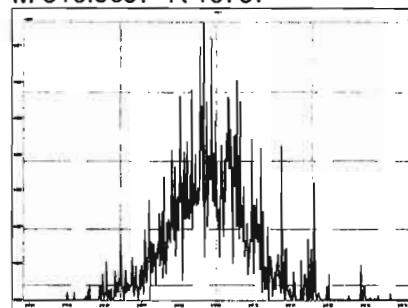
M 492.9696 R 13054



M 504.9696 R 12963



M 516.9697 R 16737



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200604R2-1

Reviewed By: CT 06/05/2020

Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>	Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1614 1699 429 1613/1668/8280		
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GC Break <20%	<input type="checkbox" value="NA"/>	
Verification Std. named correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>8280 CS1 End Standard:</u>		
(ST-Year-Month-Day-VG ID)			- Ratios within limits, S/N <2.5:1, CS1 within 12 hours	<input type="checkbox" value="NA"/>	
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Comments:		
Correct ICAL referenced?	<input type="checkbox" value="GRB"/>	<input type="checkbox"/>			
<u>Run Log:</u>					
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox" value="↓"/>			
- Samples within 12 hour clock?	<input type="checkbox" value="Y"/>	<input type="checkbox" value="N"/>			
- Bottle position verified?	<u>GRB</u>				

Dataset: U:\VG12.PRO\Results\200604R2\200604R2-2.qld

Last Altered: Friday, June 05, 2020 08:27:06 Pacific Daylight Time

Printed: Friday, June 05, 2020 08:27:29 Pacific Daylight Time

GPA 06/05/2020

G 06/04/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R2_2, Date: 04-Jun-2020, Time: 20:45:50, ID: ST200604R2_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	5.96e4	6.80e5	0.80	NO	0.888	26.55	26.53	NO	1.001	1.001	9.8693	98.7	NO
2	2 1,2,3,7,8-PeCDD	2.04e5	4.67e5	0.64	NO	0.908	31.49	31.50	NO	1.001	1.001	48.135	96.3	NO
3	3 1,2,3,4,7,8-HxCDD	1.63e5	3.28e5	1.23	NO	1.03	34.86	34.86	NO	1.000	1.000	47.977	96.0	NO
4	4 1,2,3,6,7,8-HxCDD	1.80e5	4.10e5	1.21	NO	0.892	34.95	34.96	NO	1.000	1.000	49.235	98.5	NO
5	5 1,2,3,7,8,9-HxCDD	1.57e5	3.65e5	1.22	NO	0.887	35.24	35.24	NO	1.000	1.000	48.430	96.9	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.16e5	2.70e5	1.03	NO	0.864	38.77	38.78	NO	1.000	1.001	49.752	99.5	NO
7	7 OCDD	2.20e5	4.92e5	0.85	NO	0.914	41.73	41.75	NO	1.000	1.001	97.874	97.9	NO
8	8 2,3,7,8-TCDF	6.57e4	9.12e5	0.76	NO	0.751	25.64	25.65	NO	1.001	1.001	9.5879	95.9	NO
9	9 1,2,3,7,8-PeCDF	3.21e5	7.24e5	1.59	NO	0.893	30.21	30.20	NO	1.001	1.001	49.660	99.3	NO
10	10 2,3,4,7,8-PeCDF	3.18e5	6.92e5	1.58	NO	0.935	31.19	31.18	NO	1.001	1.000	49.055	98.1	NO
11	11 1,2,3,4,7,8-HxCDF	1.93e5	4.31e5	1.20	NO	0.884	33.96	33.98	NO	1.000	1.001	50.515	101	NO
12	12 1,2,3,6,7,8-HxCDF	2.25e5	5.07e5	1.25	NO	0.889	34.10	34.10	NO	1.000	1.000	49.910	99.8	NO
13	13 2,3,4,6,7,8-HxCDF	2.05e5	4.43e5	1.21	NO	0.934	34.71	34.69	NO	1.001	1.000	49.491	99.0	NO
14	14 1,2,3,7,8,9-HxCDF	1.52e5	3.56e5	1.21	NO	0.871	35.59	35.61	NO	1.000	1.001	49.037	98.1	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.42e5	3.20e5	0.98	NO	0.873	37.41	37.38	NO	1.001	1.000	50.919	102	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.09e5	2.10e5	0.96	NO	1.01	39.30	39.32	NO	1.000	1.001	51.117	102	NO
17	17 OCDF	2.31e5	5.51e5	0.89	NO	0.806	41.93	41.94	NO	1.000	1.000	103.86	104	NO
18	18 13C-2,3,7,8-TCDD	6.80e5	5.94e5	0.78	NO	1.16	26.54	26.51	NO	1.026	1.025	99.056	99.1	NO
19	19 13C-1,2,3,7,8-PeCDD	4.67e5	5.94e5	0.64	NO	0.849	31.73	31.47	NO	1.227	1.217	92.717	92.7	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.28e5	4.39e5	1.29	NO	0.779	34.85	34.85	NO	1.014	1.014	95.885	95.9	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.10e5	4.39e5	1.26	NO	1.02	34.97	34.95	NO	1.017	1.017	91.881	91.9	NO
22	22 13C-1,2,3,7,8,9-HxCDD	3.65e5	4.39e5	1.22	NO	0.903	35.24	35.23	NO	1.025	1.025	92.142	92.1	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.70e5	4.39e5	1.05	NO	0.689	38.76	38.76	NO	1.128	1.128	89.230	89.2	NO
24	24 13C-OCDD	4.92e5	4.39e5	0.90	NO	0.652	41.79	41.73	NO	1.216	1.214	172.00	86.0	NO
25	25 13C-2,3,7,8-TCDF	9.12e5	8.66e5	0.77	NO	1.06	25.58	25.62	NO	0.989	0.991	99.423	99.4	NO
26	26 13C-1,2,3,7,8-PeCDF	7.24e5	8.66e5	1.62	NO	0.838	30.11	30.18	NO	1.165	1.167	99.786	99.8	NO
27	27 13C-2,3,4,7,8-PeCDF	6.92e5	8.66e5	1.63	NO	0.817	31.06	31.16	NO	1.202	1.205	97.916	97.9	NO
28	28 13C-1,2,3,4,7,8-HxCDF	4.31e5	4.39e5	0.52	NO	1.01	33.98	33.96	NO	0.989	0.988	97.553	97.6	NO
29	29 13C-1,2,3,6,7,8-HxCDF	5.07e5	4.39e5	0.50	NO	1.17	34.11	34.09	NO	0.992	0.992	98.984	99.0	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.43e5	4.39e5	0.48	NO	1.02	34.68	34.68	NO	1.009	1.009	98.863	98.9	NO
31	31 13C-1,2,3,7,8,9-HxCDF	3.56e5	4.39e5	0.50	NO	0.860	35.58	35.59	NO	1.035	1.036	94.343	94.3	NO

Dataset: U:\VG12.PRO\Results\200604R2\200604R2-2.qld

Last Altered: Friday, June 05, 2020 08:27:06 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:27:29 Pacific Daylight Time

Name: 200604R2_2, Date: 04-Jun-2020, Time: 20:45:50, ID: ST200604R2_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	3.20e5	4.39e5	0.41	NO	0.774	37.33	37.37	NO	1.086	1.087	94.177	94.2	NO
33	13C-1,2,3,4,7,8,9-HpCDF	2.10e5	4.39e5	0.42	NO	0.521	39.36	39.30	NO	1.145	1.143	92.006	92.0	NO
34	13C-OCDF	5.51e5	4.39e5	0.89	NO	0.746	41.96	41.93	NO	1.221	1.220	168.33	84.2	NO
35	37Cl-2,3,7,8-TCDD	6.38e4	5.94e5			1.04	26.57	26.54	NO	1.028	1.027	10.355	104	NO
36	13C-1,2,3,4-TCDD	5.94e5	5.94e5	0.79	NO	1.00	25.89	25.85	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	8.66e5	8.66e5	0.78	NO	1.00	24.36	24.18	NO	1.000	1.000	100.00	100	YES <i>ok</i>
38	13C-1,2,3,4,6,9-HxCDF	4.39e5	4.39e5	0.51	NO	1.00	34.42	34.37	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Dataset: Untitled

Last Altered: Friday, June 05, 2020 08:33:32 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:33:49 Pacific Daylight Time

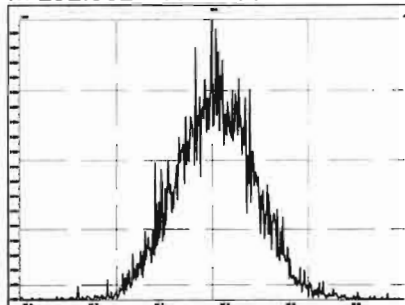
Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

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

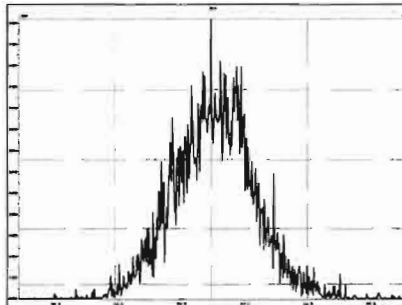
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1	200604R2_1	SOLVENT BLANK	04-Jun-20	19:59:36
2	200604R2_2	ST200604R2_1 1613 CS3 19L2305	04-Jun-20	20:45:50
3	200604R2_3	B0F0012-BS1 OPR 1	04-Jun-20	21:32:05
4	200604R2_4	SOLVENT BLANK	04-Jun-20	22:18:20
5	200604R2_5	B0F0012-BLK1 Method Blank 1	04-Jun-20	23:04:34
6	200604R2_6	2001187-01 OF-031A BiWeekly Composite D/...	04-Jun-20	23:50:49
7	200604R2_7	2000997-02 PDI-061SC-A-04-05-200428 15.39	05-Jun-20	00:37:04
8	200604R2_8	2000997-03 PDI-061SC-A-05-06-200428 15.16	05-Jun-20	01:23:17
9	200604R2_9	2000997-04 PDI-061SC-A-06-07-200428 15	05-Jun-20	02:09:33
10	200604R2_10	2000997-05 PDI-061SC-A-07-08-200428 14.12	05-Jun-20	02:55:48
11	200604R2_11	2000997-06 PDI-061SC-A-08-09-200428 15.8	05-Jun-20	03:42:03
12	200604R2_12	2000997-07 PDI-061SC-A-09-9.9-200428 14.8	05-Jun-20	04:28:19
13	200604R2_13	2000997-08 PDI-061SC-B-00-02-200428 16.18	05-Jun-20	05:14:35
14	200604R2_14	2000997-09 PDI-061SC-B-02-04-200428 15.59	05-Jun-20	06:00:48
15	200604R2_15	2000997-10 PDI-061SC-B-04-06-200428 15.2	05-Jun-20	06:47:03
16	200604R2_16	2000997-11 PDI-061SC-B-06-08-200428 14.52	05-Jun-20	07:33:20

Printed: Thursday, June 04, 2020 19:59:34 Pacific Daylight Time

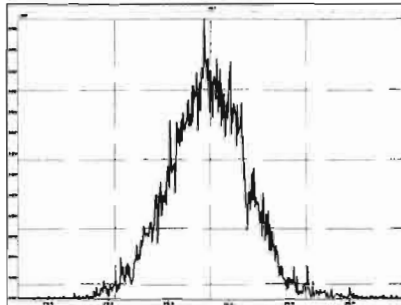
M 292.9824 R 11406



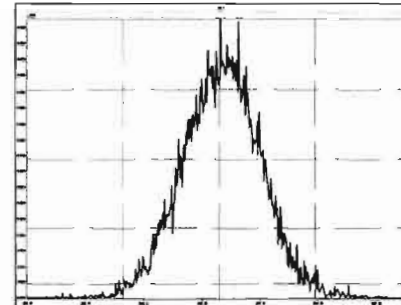
M 304.9824 R 11317



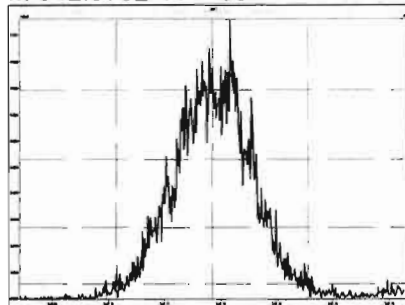
M 318.9792 R 11547



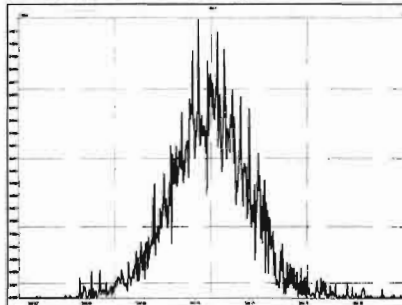
M 330.9792 R 10845



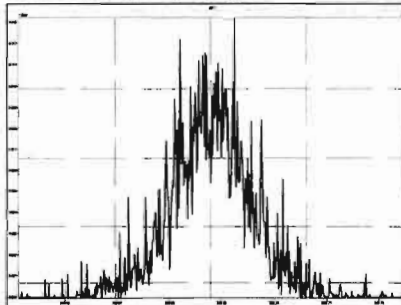
M 342.9792 R 11037



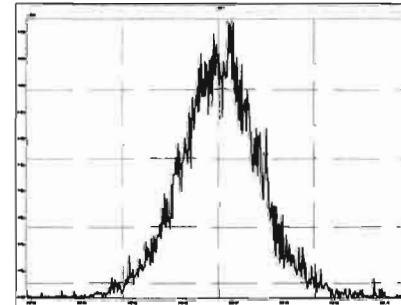
M 354.9792 R 13439



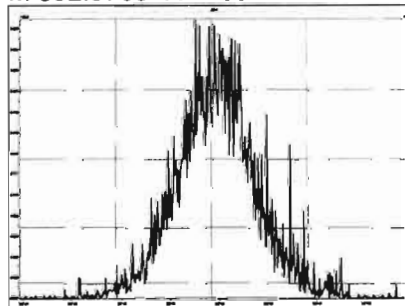
M 366.9792 R 12988



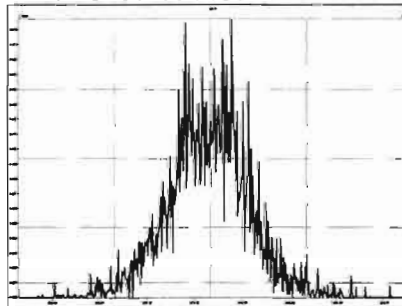
M 380.9760 R 10708



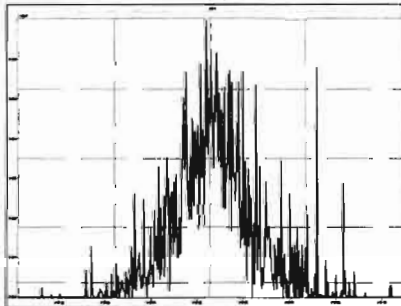
M 392.9760 R 11631



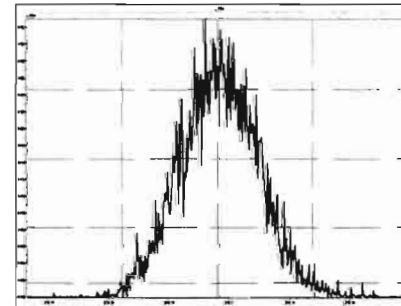
M 404.9760 R 14308



M 416.9760 R 20077

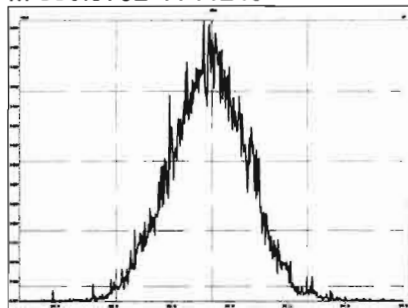


M 318.9792 R 11163

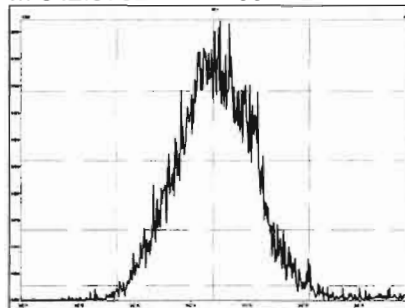


Printed: Thursday, June 04, 2020 19:59:34 Pacific Daylight Time

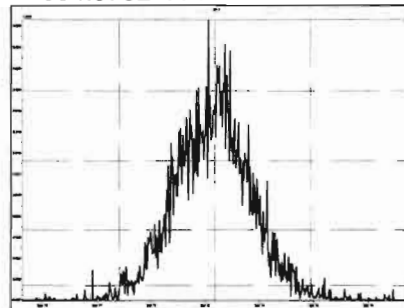
M 330.9792 R 11240



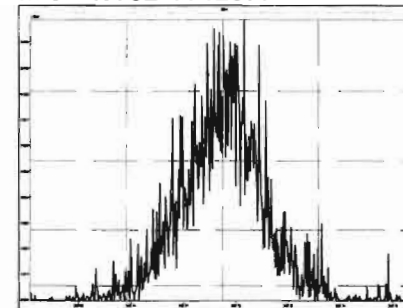
M 342.9792 R 11608



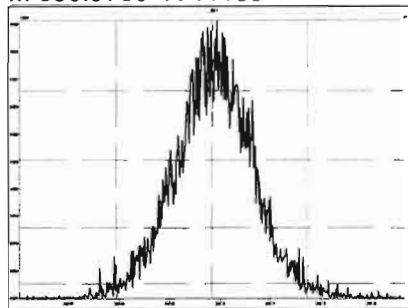
M 354.9792 R 11860



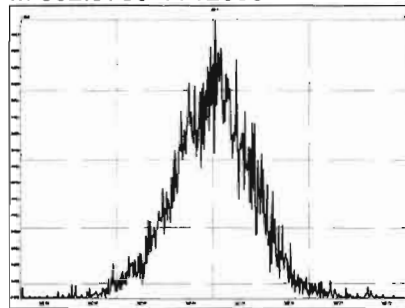
M 366.9792 R 12877



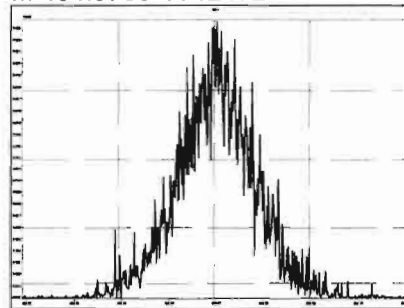
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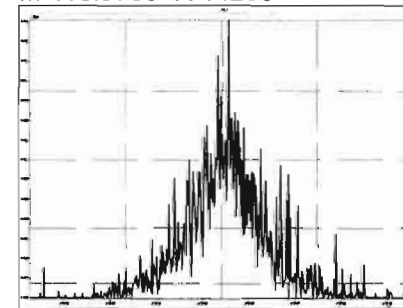
M 392.9760 R 12090



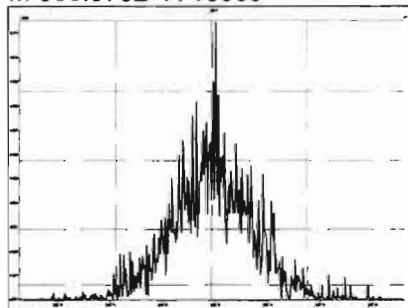
M 404.9760 R 12472



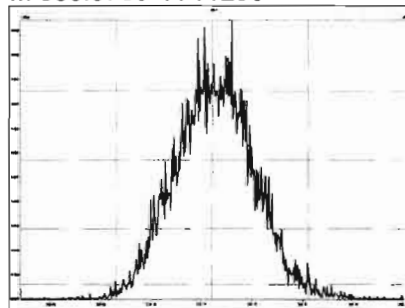
M 416.9760 R 14253



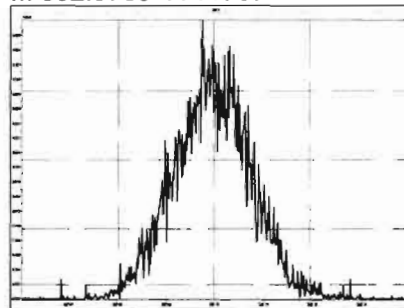
M 366.9792 R 13909



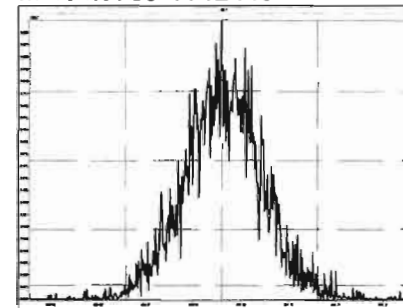
M 380.9760 R 11290



M 392.9760 R 11737

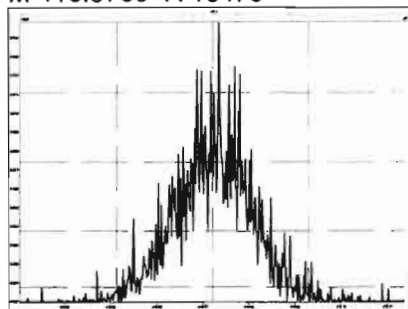


M 404.9760 R 12440

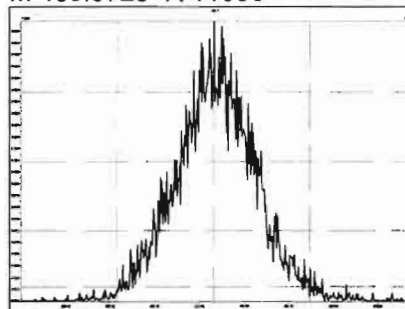


Printed: Thursday, June 04, 2020 19:59:34 Pacific Daylight Time

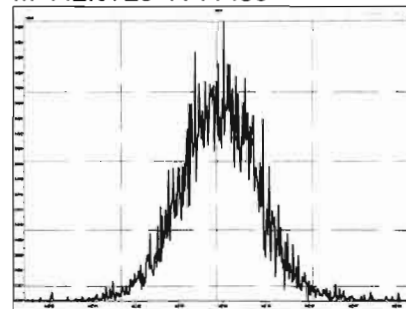
M 416.9760 R 13479



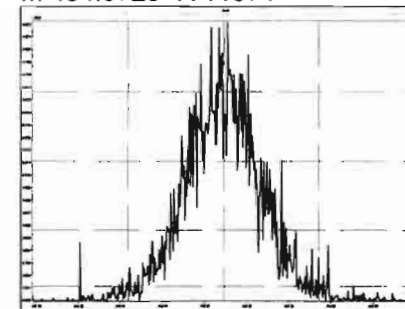
M 430.9728 R 11096



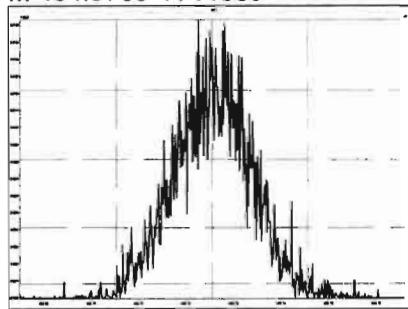
M 442.9728 R 11485



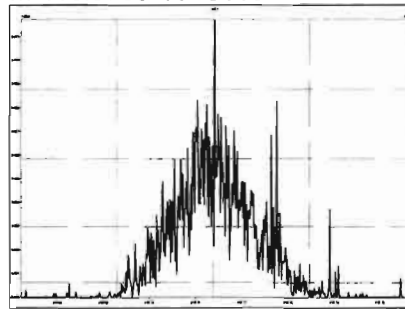
M 454.9728 R 11971



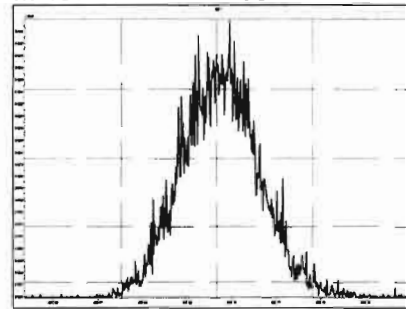
M 404.9760 R 11839



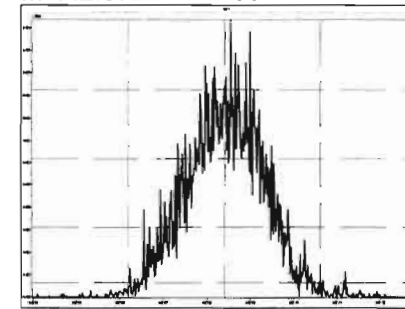
M 416.9760 R 15113



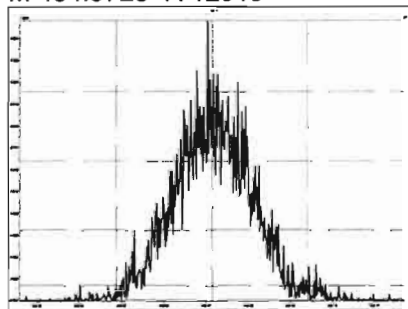
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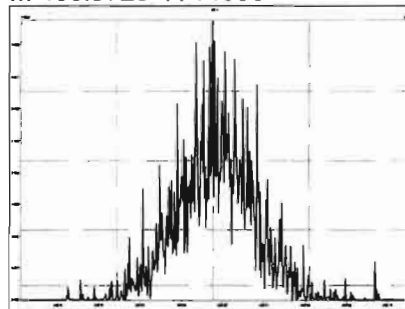
M 442.9728 R 12504



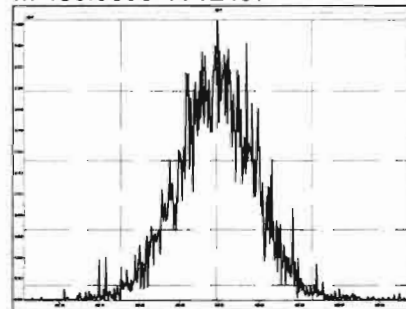
M 454.9728 R 12019



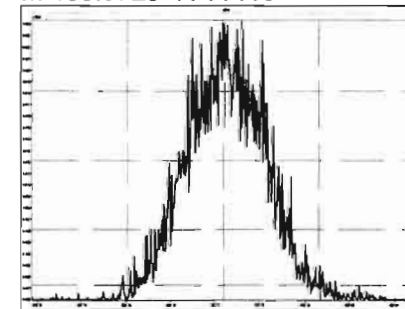
M 466.9728 R 14006



M 480.9696 R 12407

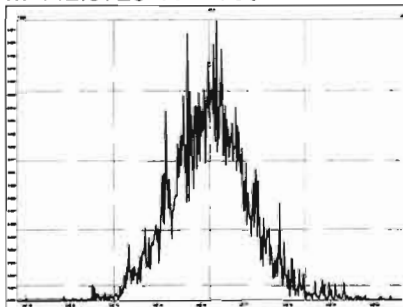


M 430.9728 R 11415

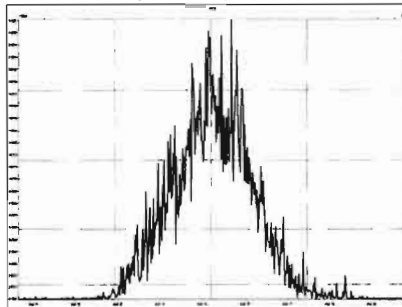


Printed: Thursday, June 04, 2020 19:59:34 Pacific Daylight Time

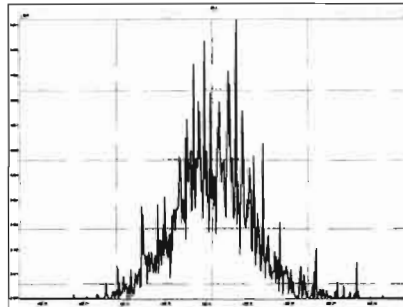
M 442.9728 R 11798



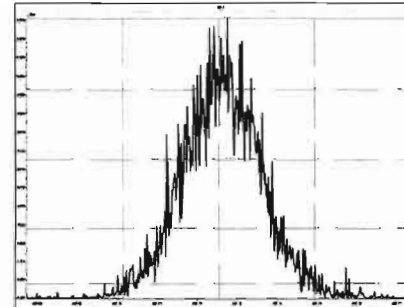
M 454.9728 R 11823



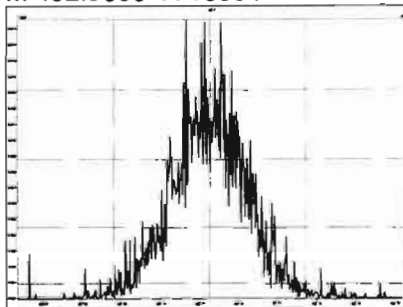
M 466.9728 R 12452



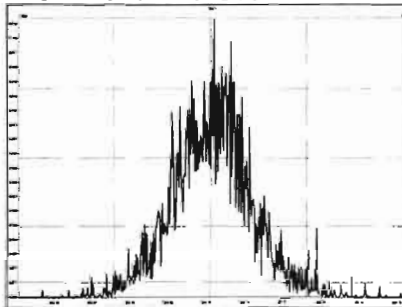
M 480.9696 R 11764



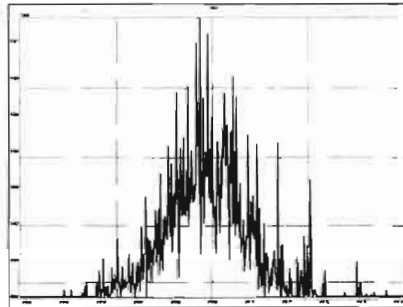
M 492.9696 R 13054



M 504.9696 R 12963



M 516.9697 R 16737



Dataset: Untitled

Last Altered: Friday, June 05, 2020 08:27:50 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:28:07 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R2_2, Date: 04-Jun-2020, Time: 20:45:50, ID: ST200604R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	22.52
2	1,2,8,9-TCDD (Last)	27.49
3	1,2,4,7,9-PeCDD (First)	29.27
4	1,2,3,8,9-PeCDD (Last)	31.86
5	1,2,4,6,7,9-HxCDD (First)	33.36
6	1,2,3,7,8,9-HxCDD (Last)	35.24
7	1,2,3,4,6,7,9-HpCDD (First)	37.77
8	1,2,3,4,6,7,8-HpCDD (Last)	38.78
9	1,3,6,8-TCDF (First)	20.38
10	1,2,8,9-TCDF (Last)	27.65
11	1,3,4,6,8-PeCDF (First)	27.59
12	1,2,3,8,9-PeCDF (Last)	32.12
13	1,2,3,4,6,8-HxCDF (First)	32.80
14	1,2,3,7,8,9-HxCDF (Last)	35.61
15	1,2,3,4,6,7,8-HpCDF (First)	37.38
16	1,2,3,4,7,8,9-HpCDF (Last)	39.32

Dataset: Untitled

Last Altered: Friday, June 05, 2020 08:27:50 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:28:07 Pacific Daylight Time

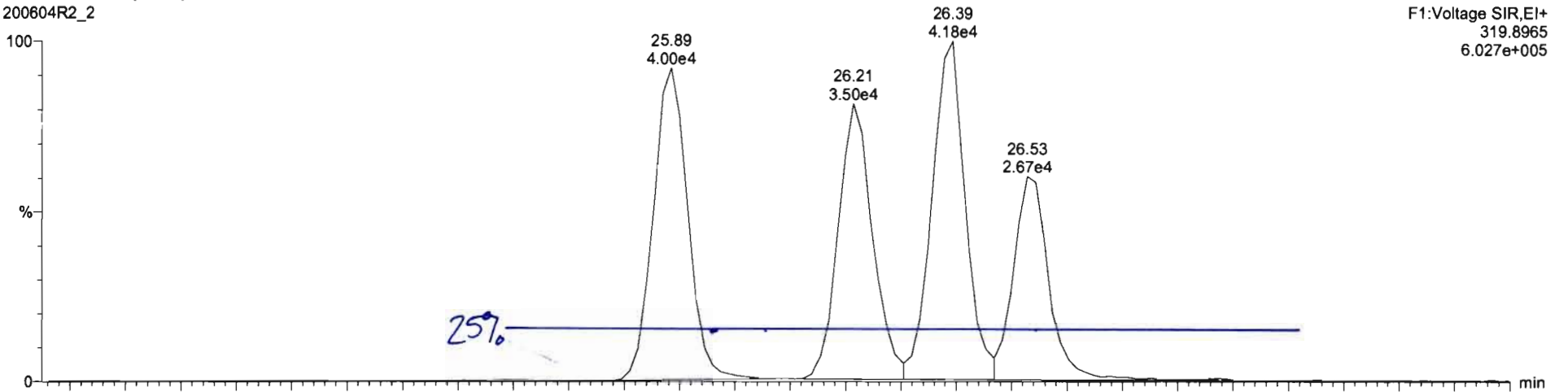
GPE 06/05/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

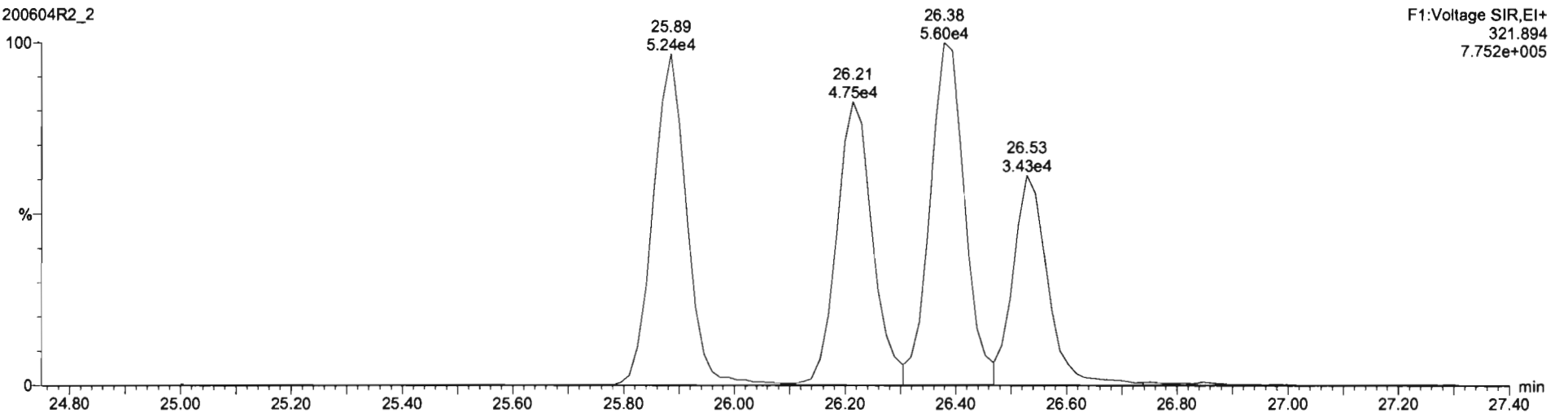
Name: 200604R2_2, Date: 04-Jun-2020, Time: 20:45:50, ID: ST200604R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200604R2_2



200604R2_2



Dataset: Untitled

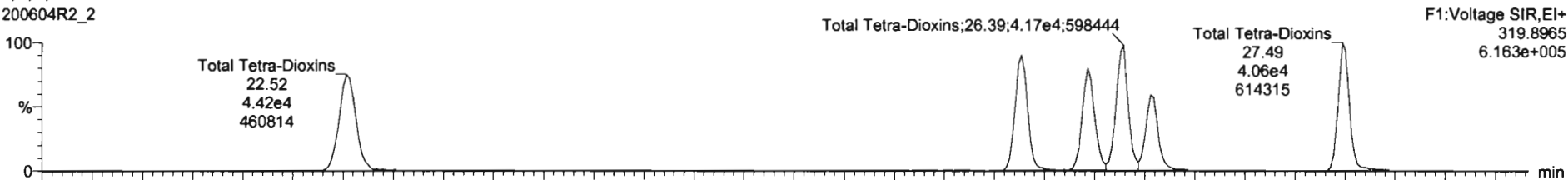
Last Altered: Friday, June 05, 2020 07:25:18 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:25:14 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
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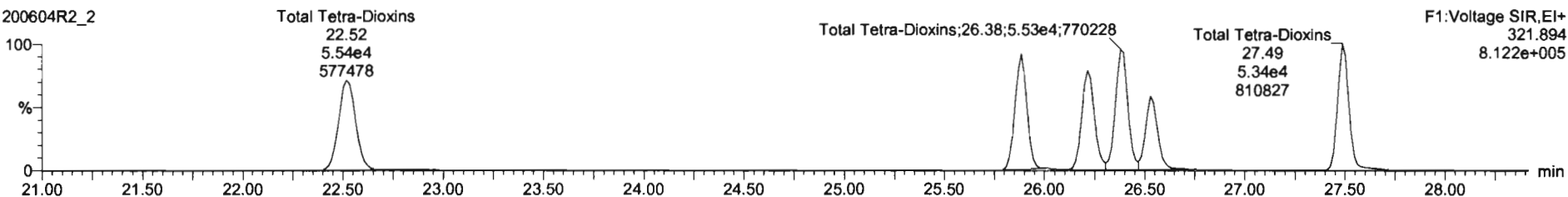
Name: 200604R2_2, Date: 04-Jun-2020, Time: 20:45:50, ID: ST200604R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200604R2_2

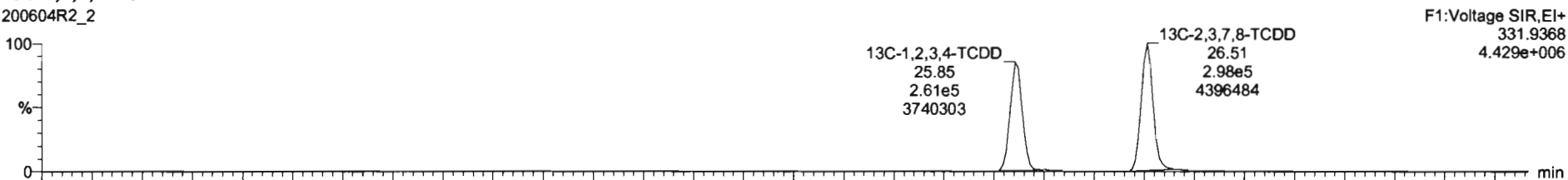


200604R2_2

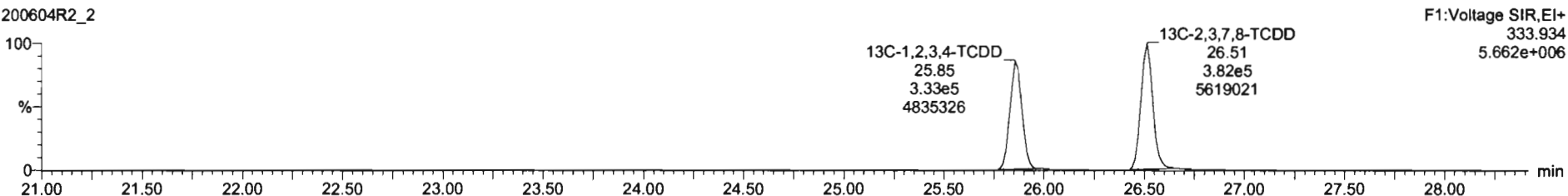


13C-2,3,7,8-TCDD

200604R2_2



200604R2_2



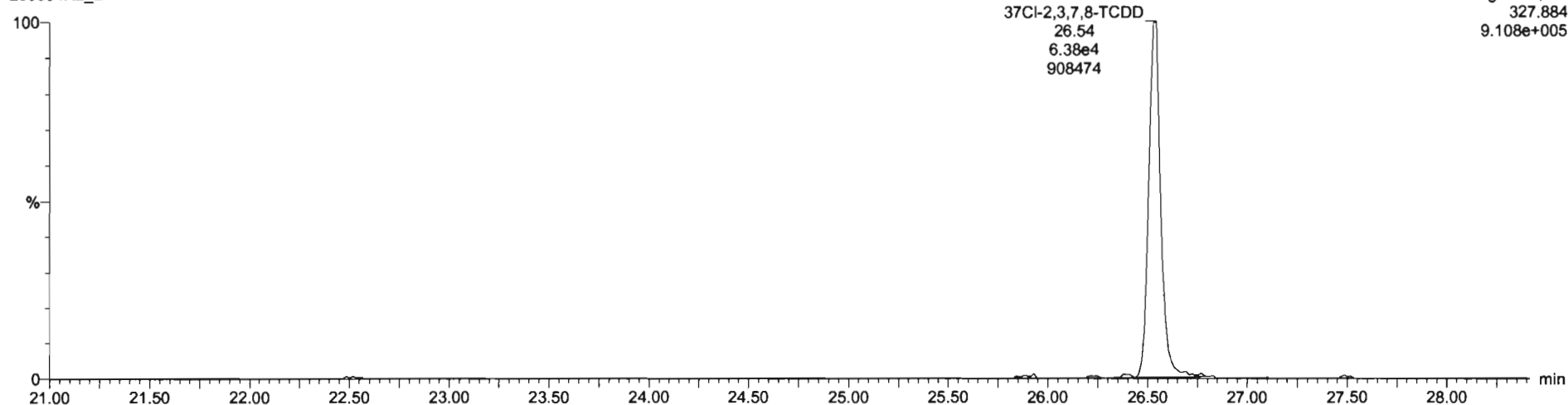
Dataset: Untitled

Last Altered: Friday, June 05, 2020 07:25:18 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:25:14 Pacific Daylight Time

Name: 200604R2_2, Date: 04-Jun-2020, Time: 20:45:50, ID: ST200604R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

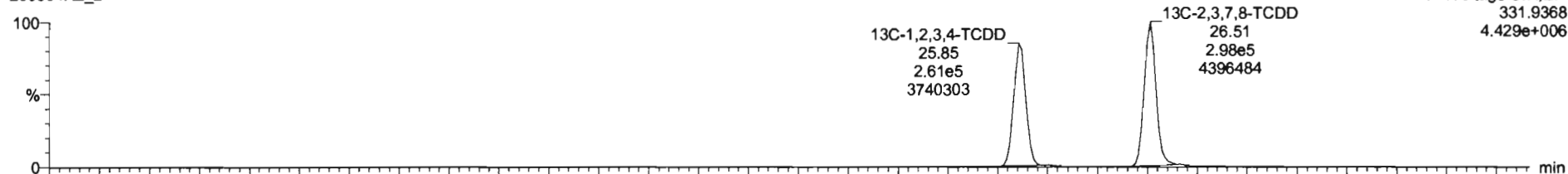
37Cl-2,3,7,8-TCDD

200604R2_2

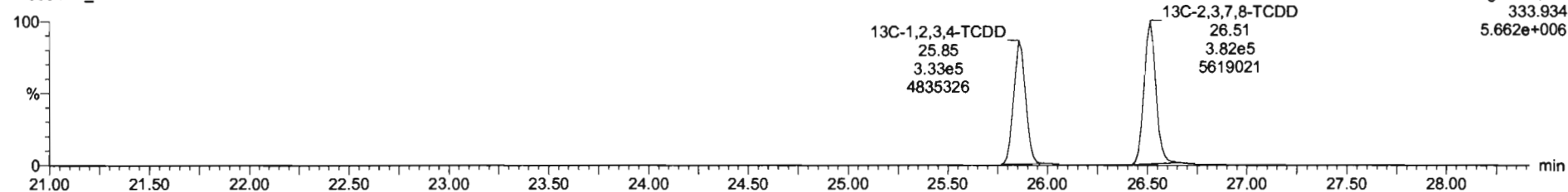


13C-1,2,3,4-TCDD

200604R2_2



200604R2_2



Dataset: Untitled

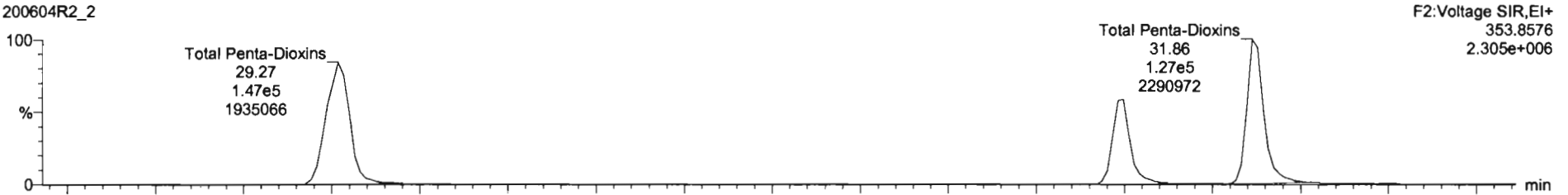
Last Altered: Friday, June 05, 2020 07:25:18 Pacific Daylight Time

Printed: Friday, June 05, 2020 08:25:14 Pacific Daylight Time

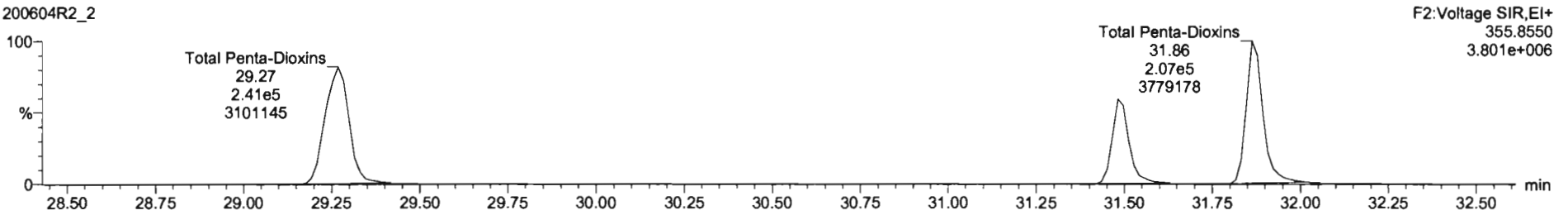
Name: 200604R2_2, Date: 04-Jun-2020, Time: 20:45:50, ID: ST200604R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200604R2_2

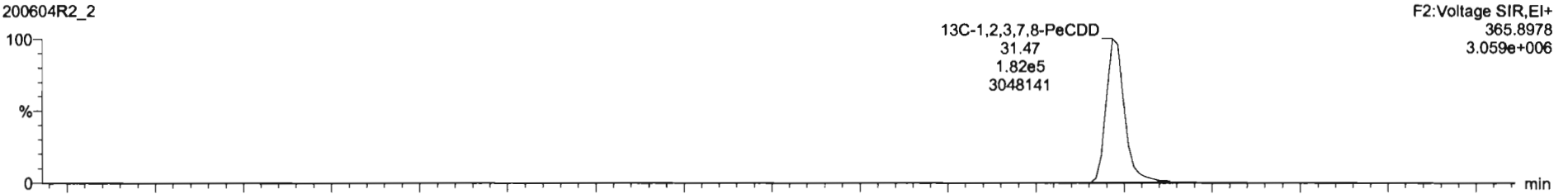


200604R2_2

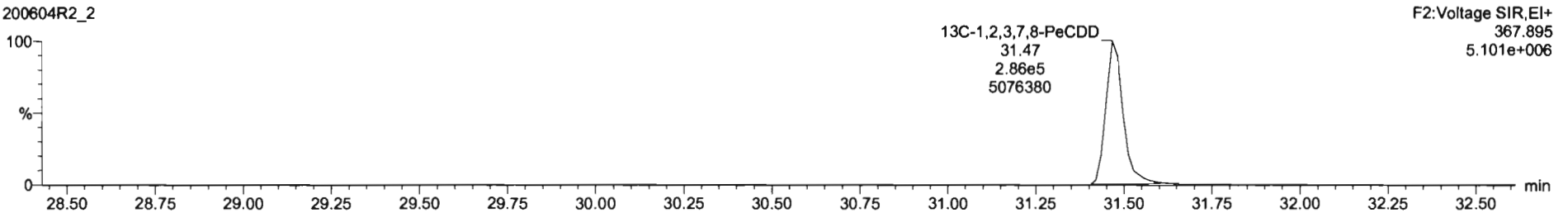


13C-1,2,3,7,8-PeCDD

200604R2_2



200604R2_2



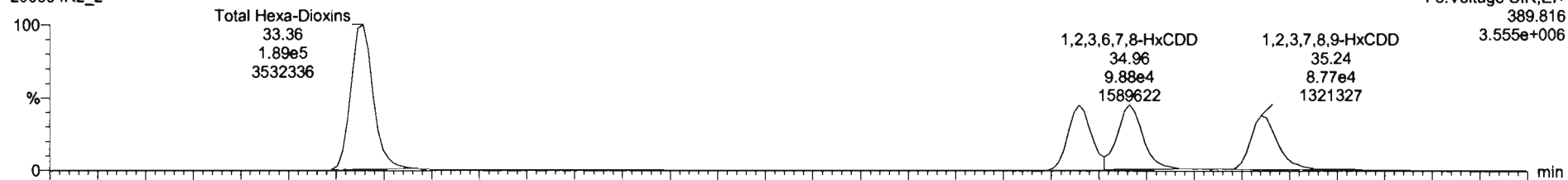
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Printed: Friday, June 05, 2020 08:25:14 Pacific Daylight Time

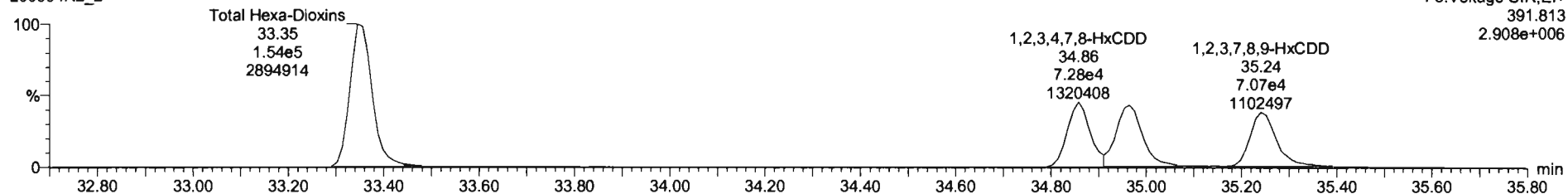
Name: 200604R2_2, Date: 04-Jun-2020, Time: 20:45:50, ID: ST200604R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200604R2_2

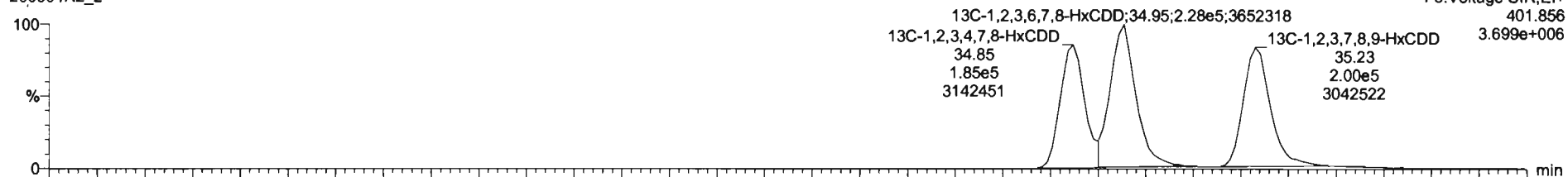


200604R2_2

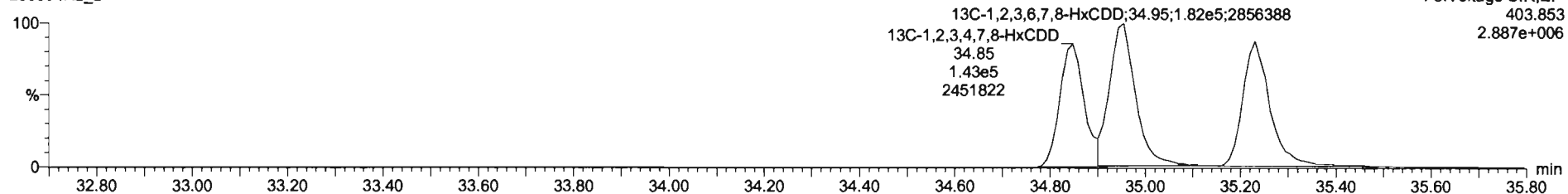


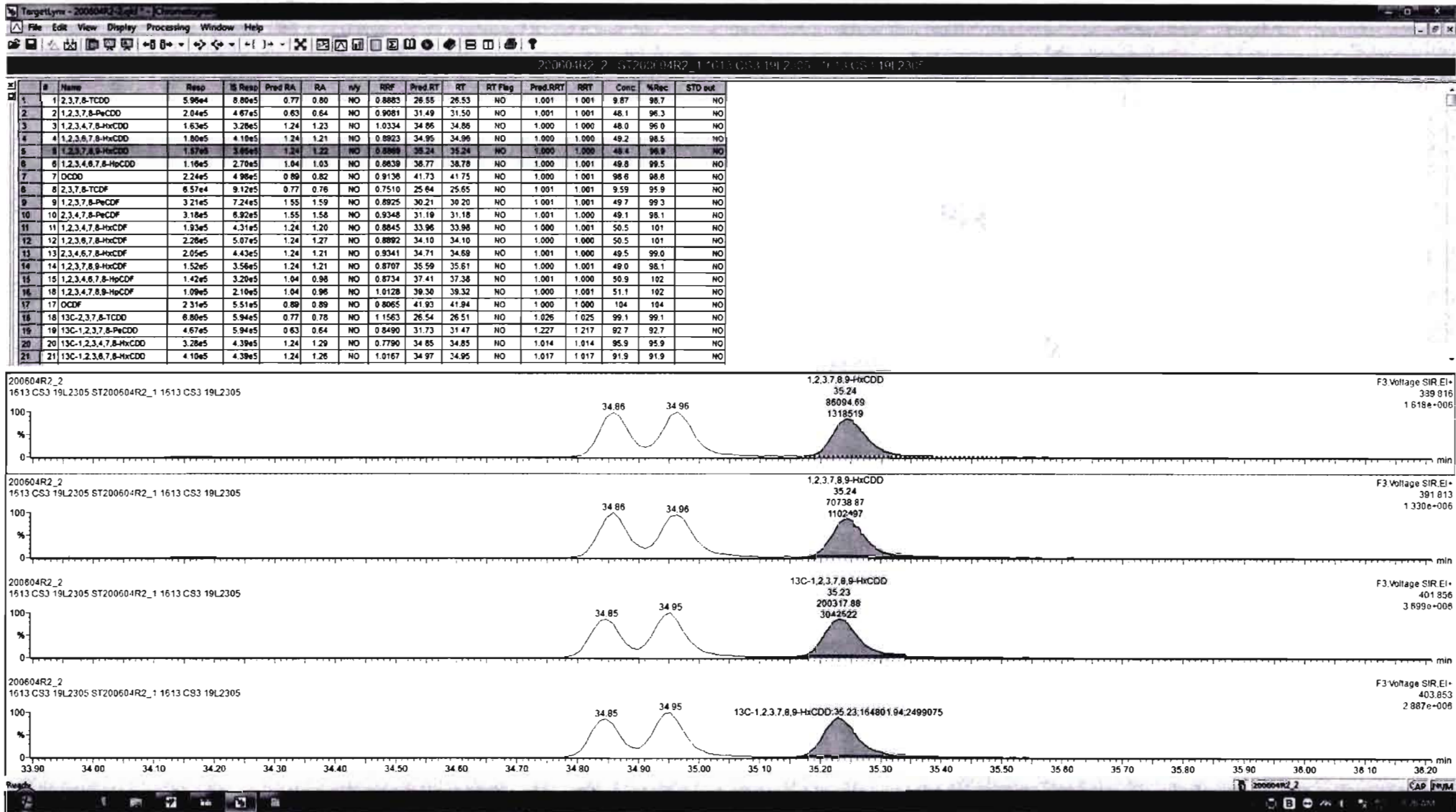
13C-1,2,3,4,7,8-HxCDD

200604R2_2



200604R2_2





Dataset: Untitled

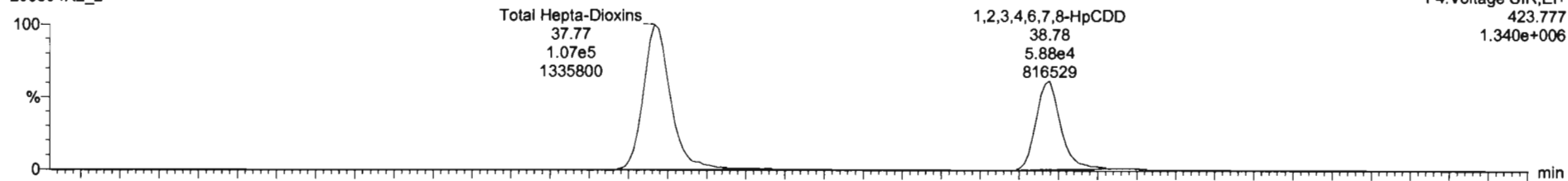
Last Altered: Friday, June 05, 2020 07:25:18 Pacific Daylight Time

Printed: Friday, June 05, 2020 08:25:14 Pacific Daylight Time

Name: 200604R2_2, Date: 04-Jun-2020, Time: 20:45:50, ID: ST200604R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

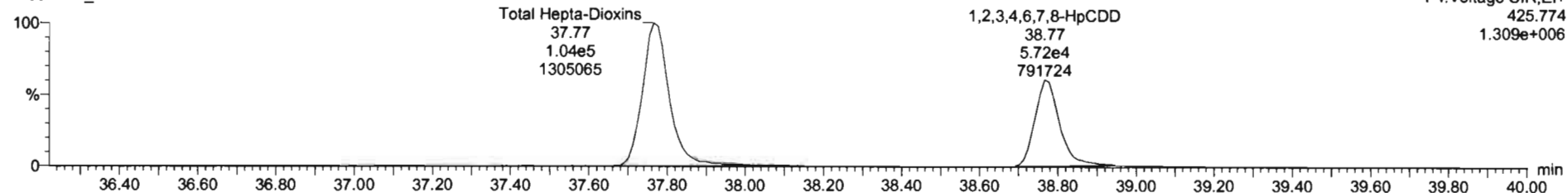
1,2,3,4,6,7,8-HpCDD

200604R2_2



F4:Voltage SIR,EI+
423.777
1.340e+006

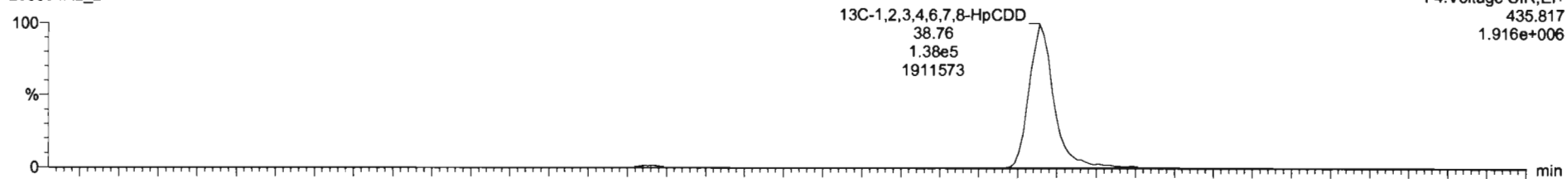
200604R2_2



F4:Voltage SIR,EI+
425.774
1.309e+006

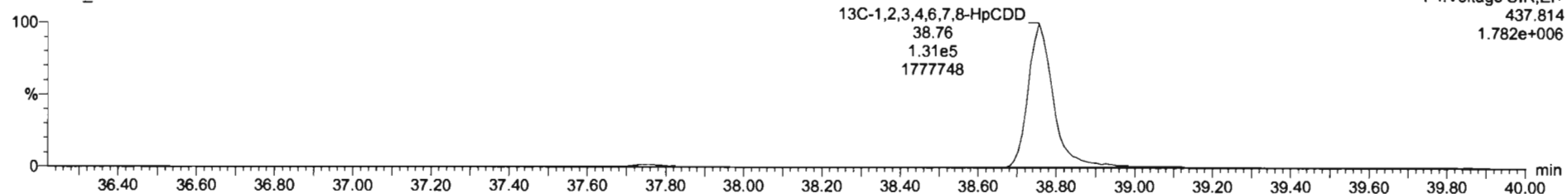
13C-1,2,3,4,6,7,8-HpCDD

200604R2_2



F4:Voltage SIR,EI+
435.817
1.916e+006

200604R2_2

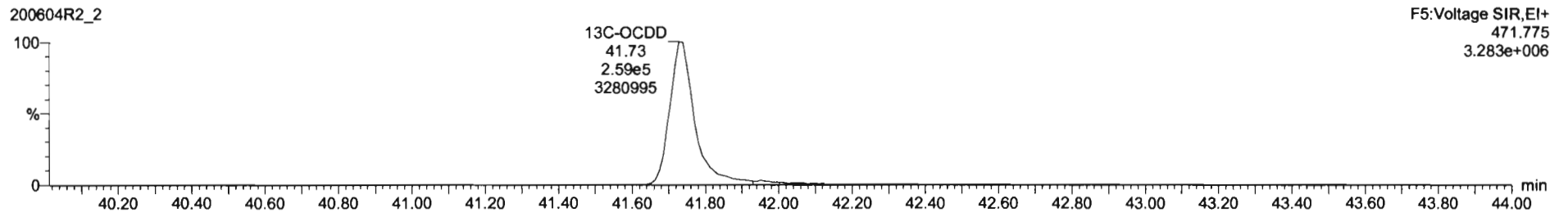
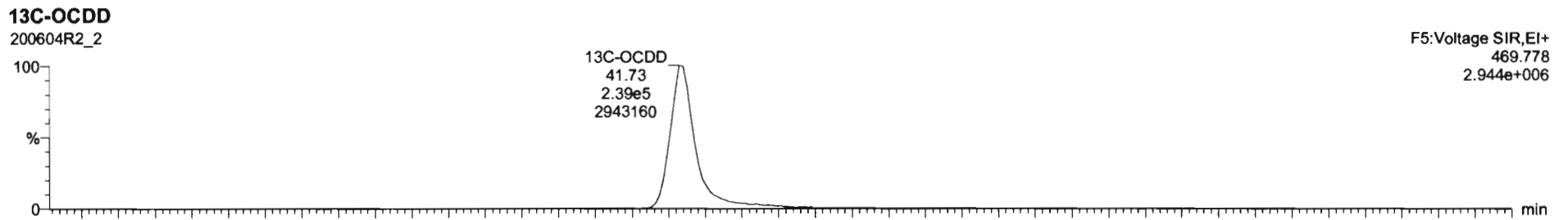
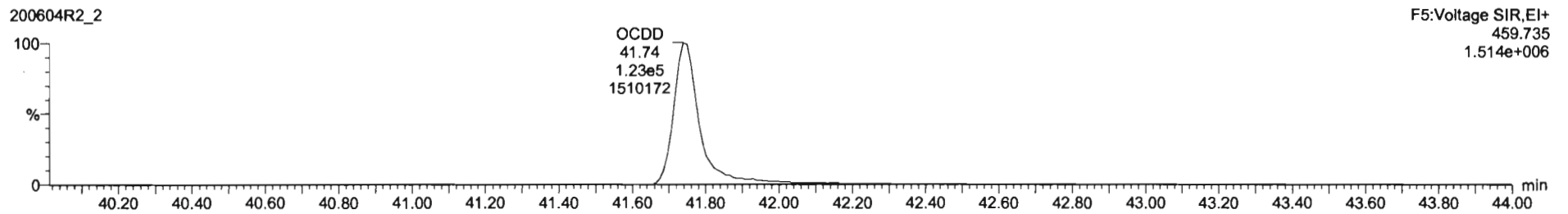
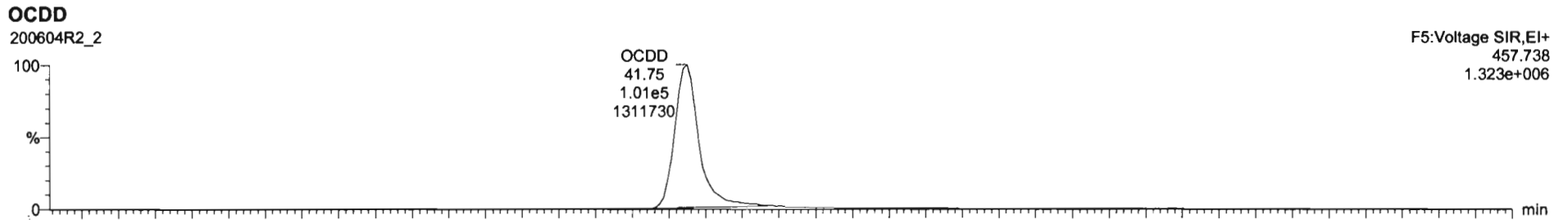


F4:Voltage SIR,EI+
437.814
1.782e+006

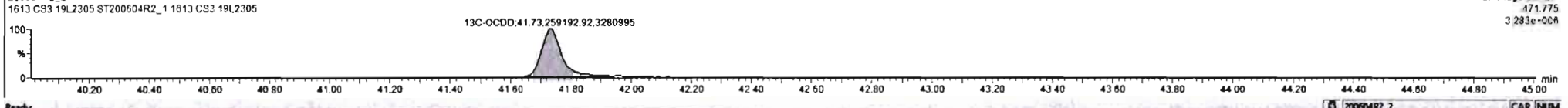
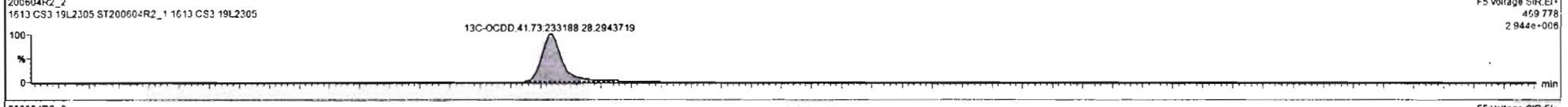
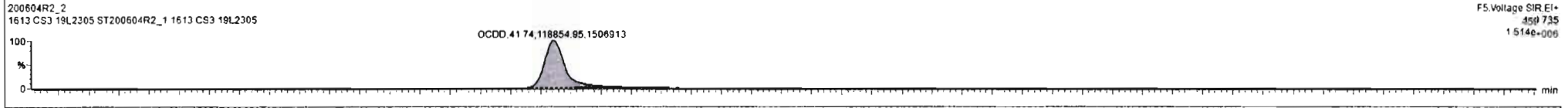
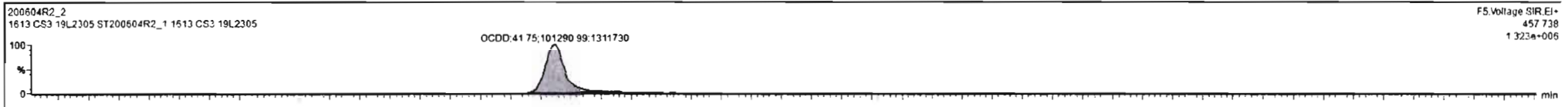
Dataset: Untitled

Last Altered: Friday, June 05, 2020 07:25:18 Pacific Daylight Time
Printed: Friday, June 05, 2020 08:25:14 Pacific Daylight Time

Name: 200604R2_2, Date: 04-Jun-2020, Time: 20:45:50, ID: ST200604R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



#	Name	Resp	IS Resp	Pred RA	RA	dy	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	5.96e4	6.60e5	0.77	0.80	NO	0.8883	28.55	28.53	NO	1.001	1.001	9.87	98.7	NO
2	1,2,3,7,8-PeCDD	2.04e5	4.67e5	0.63	0.64	NO	0.9081	31.49	31.50	NO	1.001	1.001	48.1	96.3	NO
3	1,2,3,4,7,8-HxCDD	1.63e5	3.28e5	1.24	1.23	NO	1.0334	34.86	34.86	NO	1.000	1.000	48.0	96.0	NO
4	1,2,3,6,7,8-HxCDD	1.80e5	4.10e5	1.24	1.21	NO	0.8923	34.95	34.96	NO	1.000	1.000	49.2	96.5	NO
5	1,2,3,7,8,9-HxCDD	1.57e5	3.85e5	1.24	1.22	NO	0.8889	35.24	35.24	NO	1.000	1.000	48.4	98.9	NO
6	1,2,3,4,6,7,8-HpCDD	1.18e5	2.70e5	1.04	1.03	NO	0.8639	38.77	38.78	NO	1.000	1.001	48.8	99.5	NO
7	OCDD	2.26e5	4.82e5	0.89	0.90	NO	0.9136	41.72	41.75	NO	1.000	1.001	97.8	97.9	NO
8	2,3,7,8-TCDF	6.57e4	9.12e5	0.77	0.78	NO	0.7510	25.64	25.65	NO	1.001	1.001	9.59	95.9	NO
9	1,2,3,7,8-PeCDF	3.21e5	7.24e5	1.55	1.59	NO	0.8925	30.21	30.20	NO	1.001	1.001	49.7	99.3	NO
10	1,2,3,4,7,8-PeCDF	3.18e5	6.92e5	1.55	1.58	NO	0.9348	31.19	31.18	NO	1.001	1.000	49.1	98.1	NO
11	1,2,3,4,7,8-HxCDF	1.93e5	4.31e5	1.24	1.20	NO	0.8845	33.98	33.98	NO	1.000	1.001	50.5	101	NO
12	1,2,3,6,7,8-HxCDF	2.28e5	5.07e5	1.24	1.27	NO	0.8892	34.10	34.10	NO	1.000	1.000	50.5	101	NO
13	2,3,4,6,7,8-HxCDF	2.05e5	4.43e5	1.24	1.21	NO	0.9341	34.71	34.69	NO	1.001	1.000	49.5	99.0	NO
14	1,2,3,7,8,9-HxCDF	1.52e5	3.56e5	1.24	1.21	NO	0.8707	35.59	35.61	NO	1.000	1.001	49.0	98.1	NO
15	1,2,3,4,6,7,8-HpCDF	1.42e5	3.20e5	1.04	0.98	NO	0.8734	37.41	37.38	NO	1.001	1.000	50.9	102	NO
16	1,2,3,4,7,8,9-HpCDF	1.09e5	2.18e5	1.04	0.98	NO	1.0128	39.30	39.32	NO	1.000	1.001	51.1	102	NO
17	OCDF	2.31e5	5.51e5	0.89	0.89	NO	0.8065	41.93	41.94	NO	1.000	1.000	104	104	NO
18	13C-2,3,7,8-TCDD	6.80e5	5.94e5	0.77	0.78	NO	1.1563	26.54	26.51	NO	1.026	1.025	99.1	99.1	NO
19	13C-1,2,3,7,8-PeCDD	4.67e5	5.94e5	0.63	0.64	NO	0.8490	31.73	31.47	NO	1.227	1.217	92.7	92.7	NO
20	13C-1,2,3,4,7,8-HxCDD	3.28e5	4.39e5	1.24	1.29	NO	0.7790	34.85	34.85	NO	1.014	1.014	95.9	95.9	NO
21	13C-1,2,3,7,8-HxCDD	4.10e5	4.39e5	1.24	1.26	NO	1.0167	34.97	34.95	NO	1.017	1.017	91.9	91.9	NO



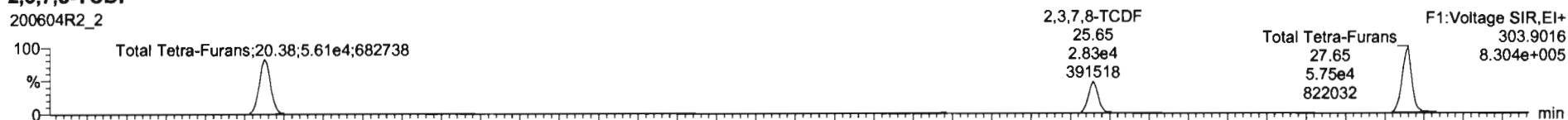
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Printed: Friday, June 05, 2020 08:25:14 Pacific Daylight Time

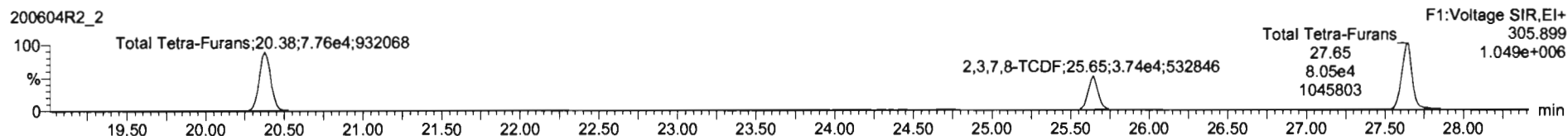
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200604R2_2

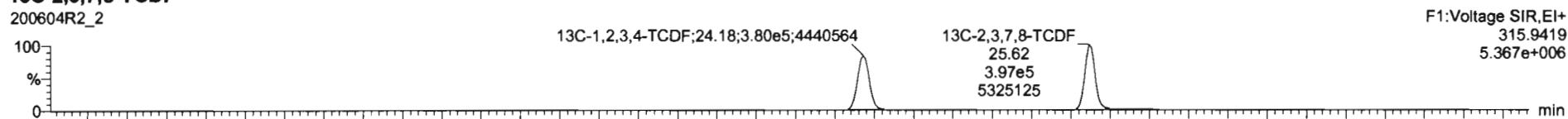


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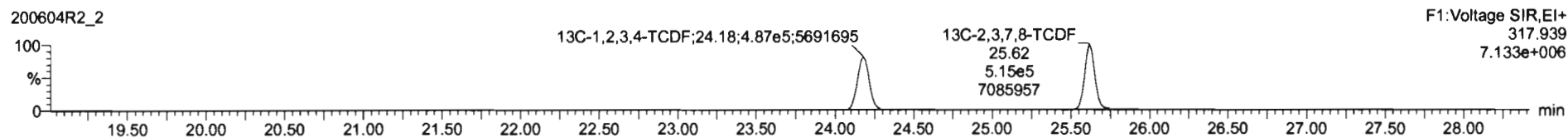


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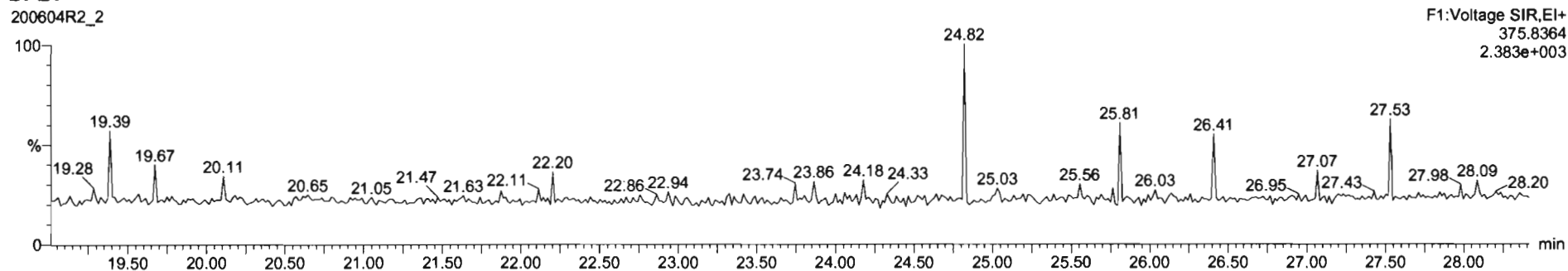


200604R2_2



DPE1

200604R2_2



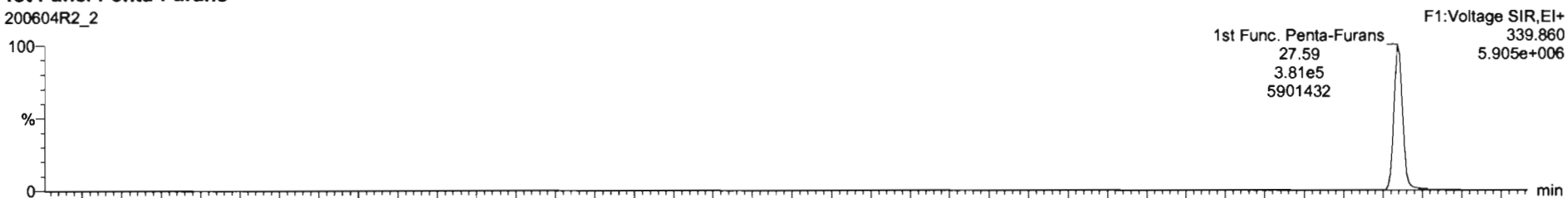
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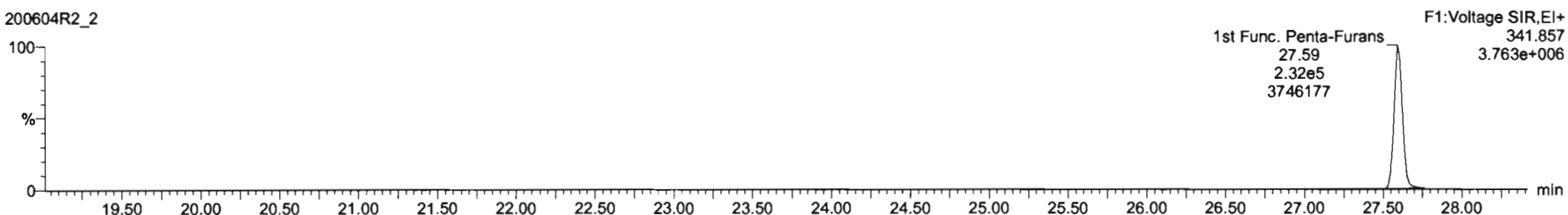
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200604R2_2

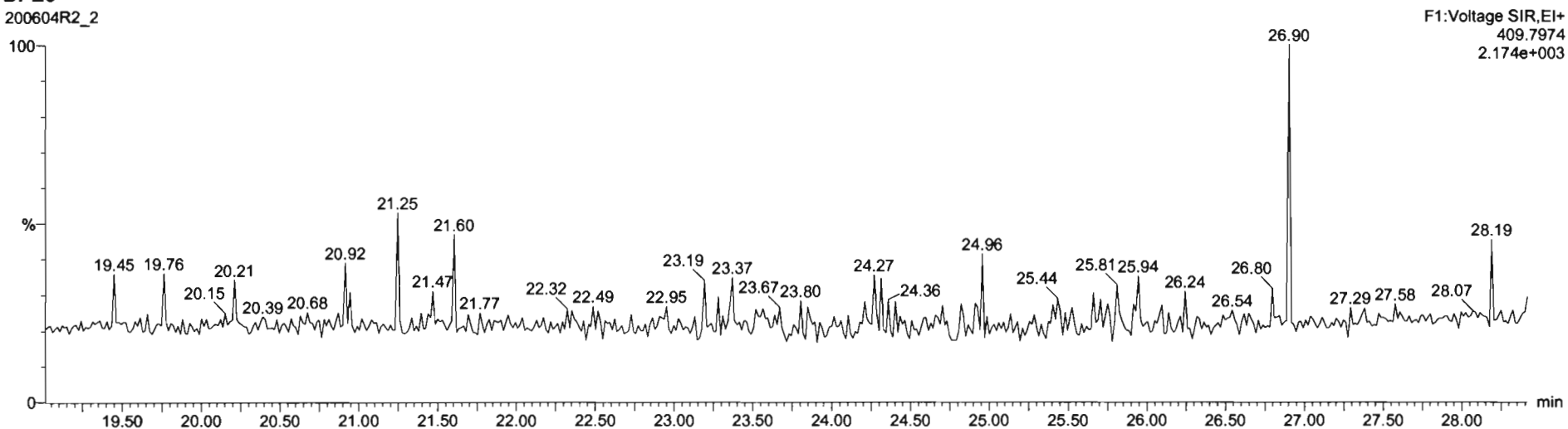


200604R2_2



DPE6

200604R2_2



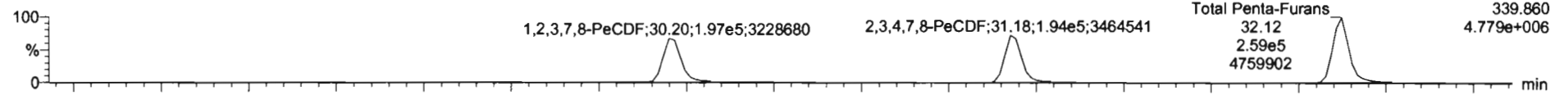
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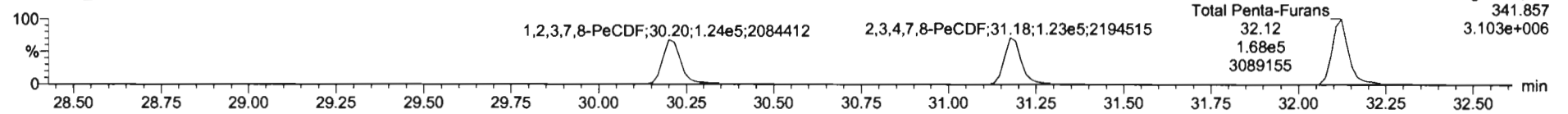
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1,2,3,7,8-PeCDF

200604R2_2

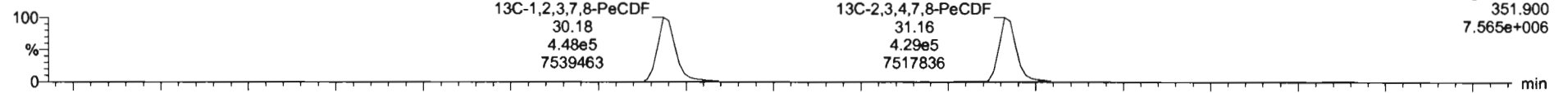


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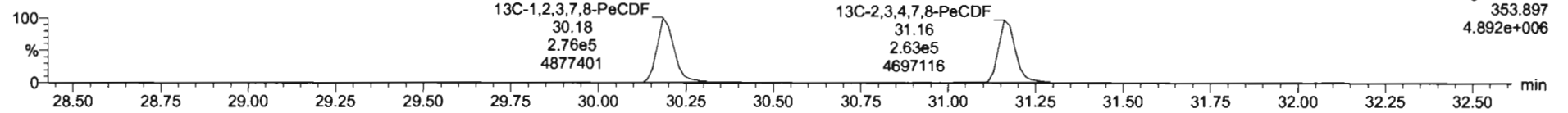


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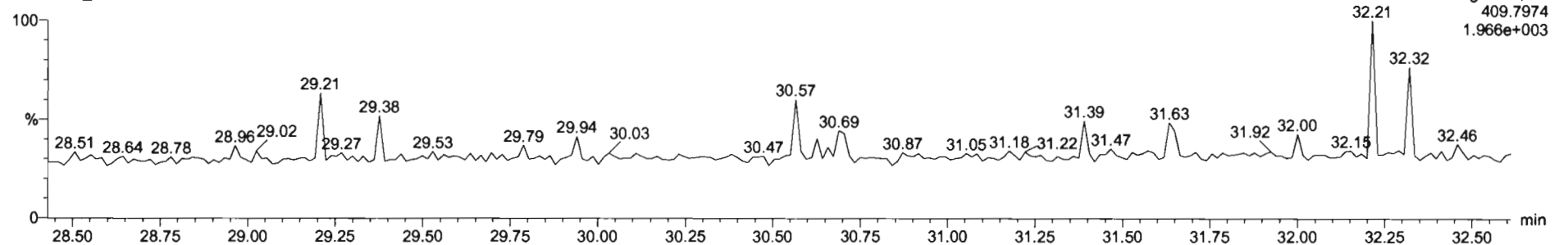


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DPE2

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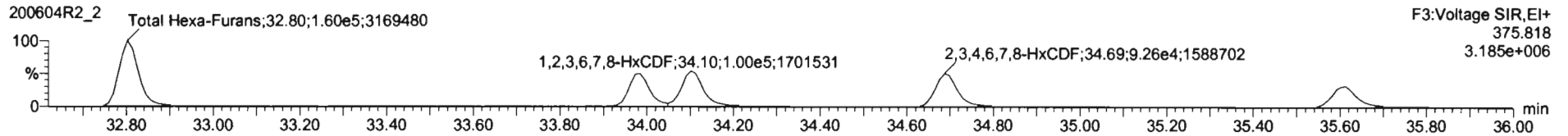
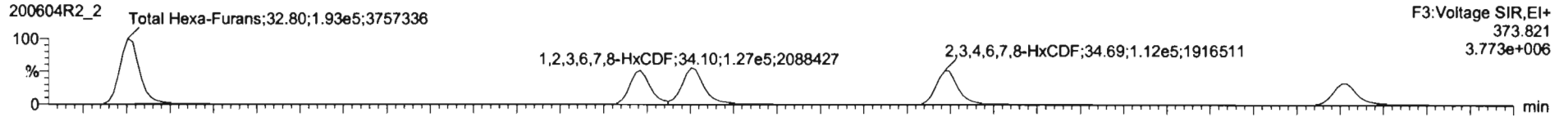


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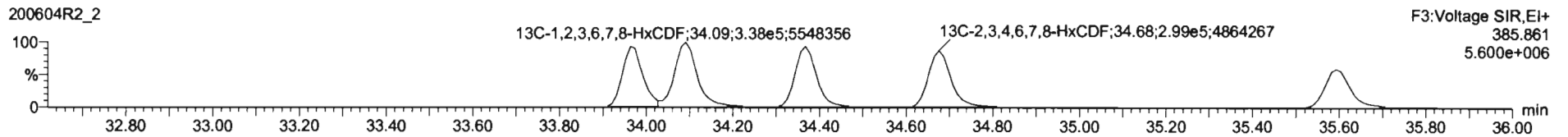
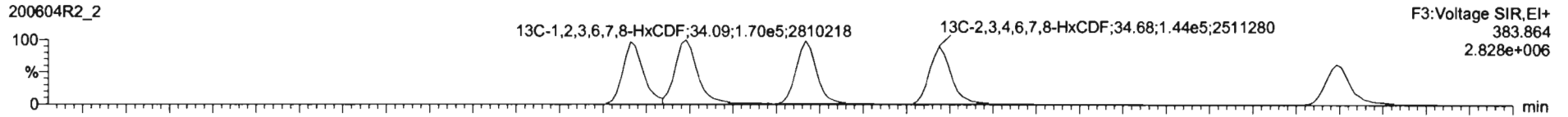
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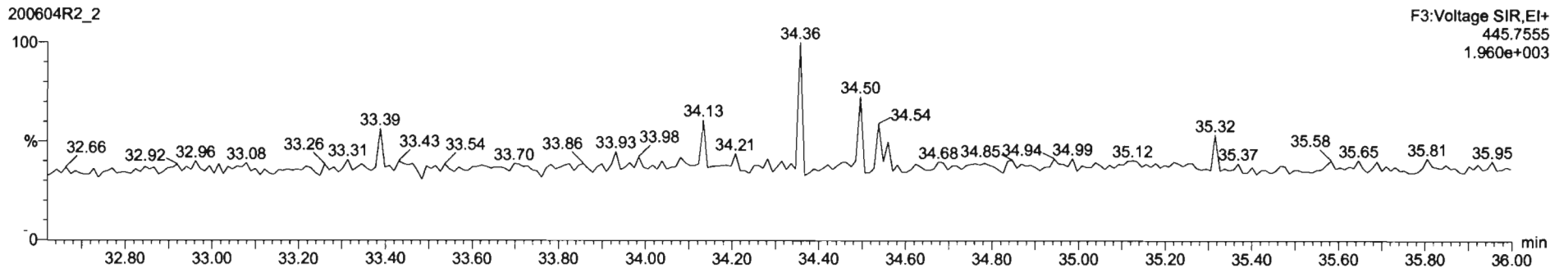
1,2,3,4,7,8-HxCDF



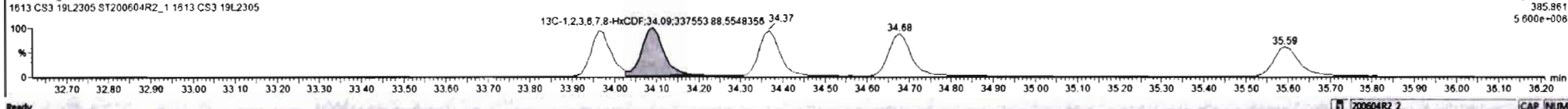
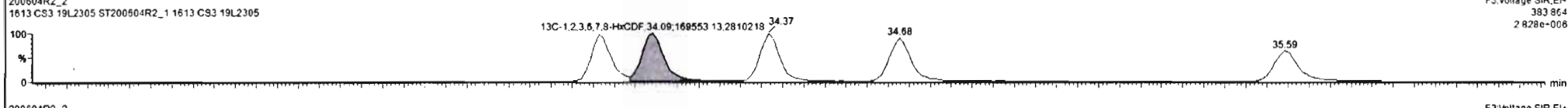
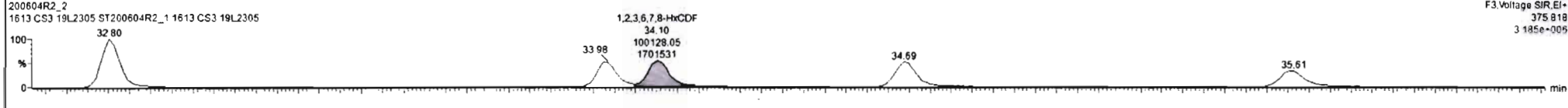
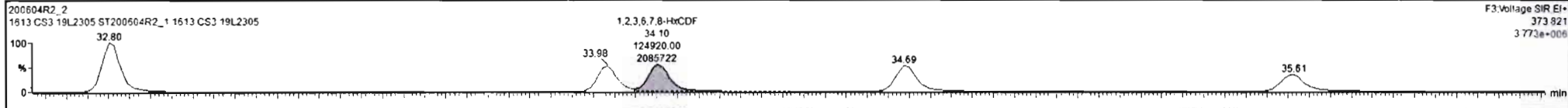
13C-1,2,3,4,7,8-HxCDF



DPE3



#	S	Name	Reso	IS Reso	Pred RA	RA	n/y	RRP	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1	2,3,7,8-TCDD	5.96e4	6.80e5	0.77	0.80	NO	0.8683	26.55	26.53	NO	1.001	1.001	9.87	98.7	NO
2	2	1,2,3,7,8-PeCDD	2.04e5	4.67e5	0.63	0.64	NO	0.9081	31.49	31.50	NO	1.001	1.001	48.1	96.3	NO
3	3	1,2,3,4,7,8-HxCDD	1.63e5	3.28e5	1.24	1.23	NO	1.0334	34.86	34.86	NO	1.000	1.000	48.0	96.0	NO
4	4	1,2,3,6,7,8-HxCDD	1.80e5	4.10e5	1.24	1.21	NO	0.8823	34.95	34.96	NO	1.000	1.000	49.2	98.5	NO
5	5	1,2,3,7,8,9-HxCDD	1.57e5	3.65e5	1.24	1.22	NO	0.8869	35.24	35.24	NO	1.000	1.000	48.4	96.9	NO
6	6	1,2,3,4,6,7,8-HpCDD	1.18e5	2.70e5	1.04	1.03	NO	0.8639	38.77	38.78	NO	1.000	1.001	49.8	99.5	NO
7	7	OCDD	2.20e5	4.92e5	0.89	0.85	NO	0.9136	41.73	41.75	NO	1.000	1.001	97.9	97.9	NO
8	8	2,3,7,8-TCDF	8.57e4	9.12e5	0.77	0.76	NO	0.7510	25.64	25.65	NO	1.001	1.001	9.59	95.9	NO
9	9	1,2,3,7,8-PeCDF	3.21e5	7.24e5	1.55	1.59	NO	0.8925	30.21	30.20	NO	1.001	1.001	49.7	99.3	NO
10	10	2,3,4,7,8-PeCDF	3.18e5	6.92e5	1.55	1.58	NO	0.9348	31.19	31.18	NO	1.001	1.000	49.1	98.1	NO
11	11	1,2,3,4,7,8-HxCDF	1.93e5	4.31e5	1.24	1.20	NO	0.8845	33.98	33.98	NO	1.000	1.001	50.5	101	NO
12	12	1,2,3,6,7,8-HxCDF	2.25e5	5.97e5	1.24	1.25	NO	0.8882	34.18	34.18	NO	1.000	1.000	49.9	99.8	NO
13	13	2,3,4,6,7,8-HxCDF	2.05e5	4.43e5	1.24	1.21	NO	0.9341	34.71	34.69	NO	1.001	1.000	49.5	99.0	NO
14	14	1,2,3,7,8,9-HxCDF	1.52e5	3.56e5	1.24	1.21	NO	0.8707	35.59	35.61	NO	1.000	1.001	49.0	96.1	NO
15	15	1,2,3,4,6,7,8-HpCDF	1.42e5	3.20e5	1.04	0.98	NO	0.8734	37.41	37.38	NO	1.001	1.000	50.9	102	NO
16	16	1,2,3,4,7,8,9-HpCDF	1.09e5	2.10e5	1.04	0.96	NO	1.0128	39.30	39.32	NO	1.000	1.001	51.1	102	NO
17	17	OCDF	2.31e5	5.51e5	0.89	0.89	NO	0.8065	41.93	41.94	NO	1.000	1.000	104	104	NO
18	18	13C-2,3,7,8-TCDD	6.80e5	5.94e5	0.77	0.78	NO	1.1563	26.54	26.51	NO	1.026	1.025	99.1	99.1	NO
19	19	13C-1,2,3,7,8-PeCDD	4.67e5	5.94e5	0.63	0.64	NO	0.8490	31.73	31.47	NO	1.227	1.217	92.7	92.7	NO
20	20	13C-1,2,3,4,7,8-HxCDD	3.28e5	4.39e5	1.24	1.29	NO	0.7790	34.85	34.85	NO	1.014	1.014	95.9	95.9	NO
21	21	13C-1,2,3,6,7,8-HxCDD	4.10e5	4.39e5	1.24	1.26	NO	1.0167	34.97	34.95	NO	1.017	1.017	91.9	91.9	NO



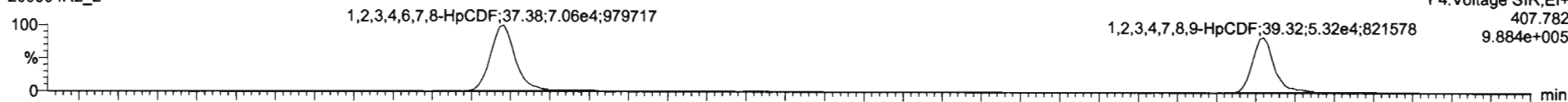
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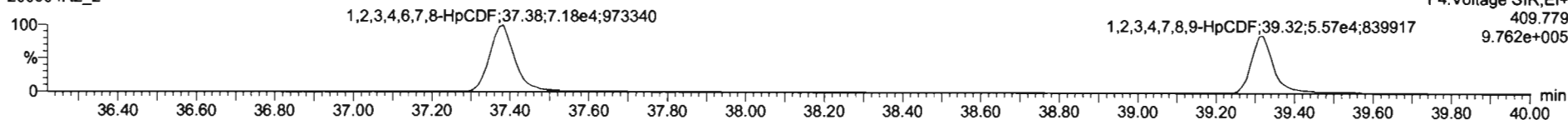
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1,2,3,4,6,7,8-HpCDF

200604R2_2

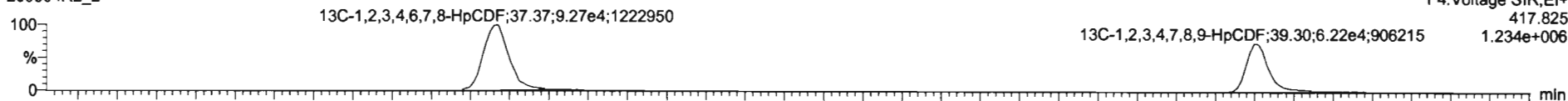


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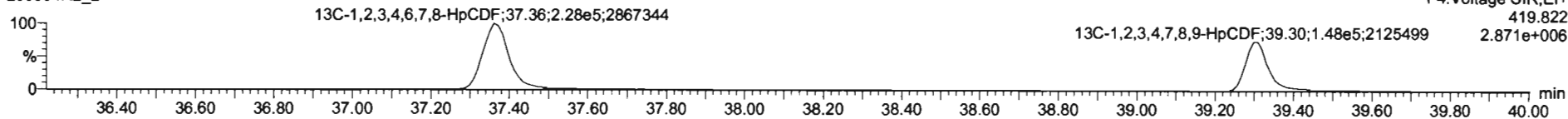


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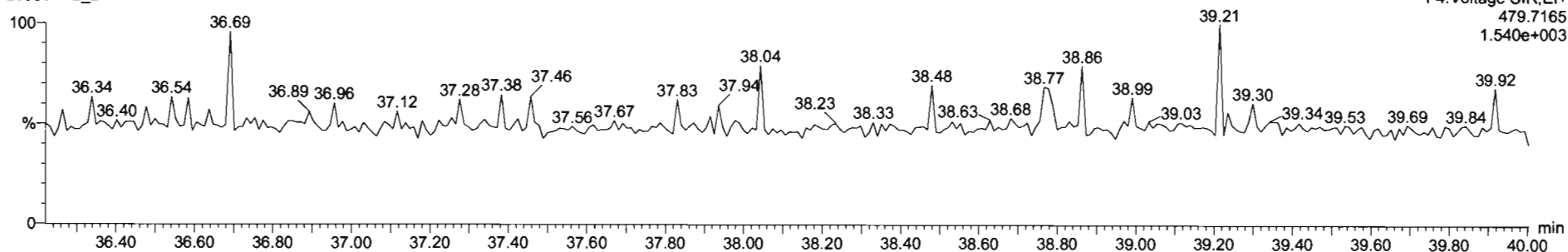


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DPE4

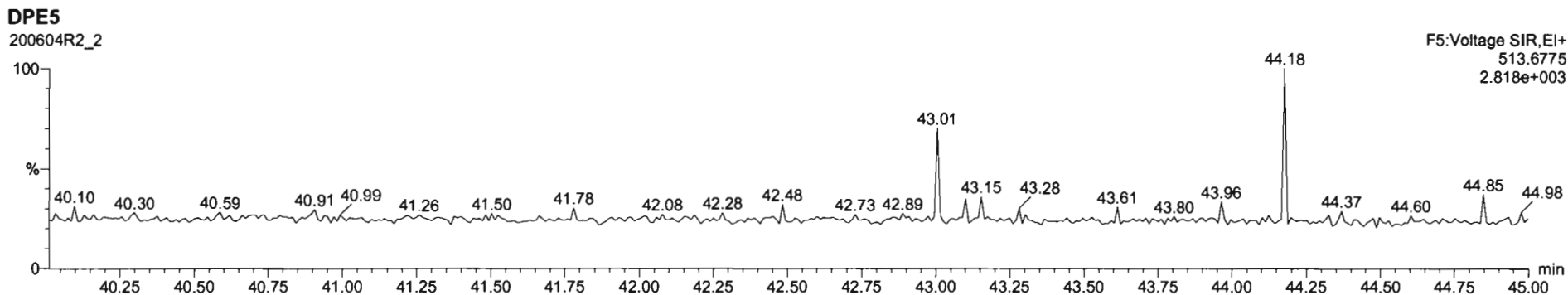
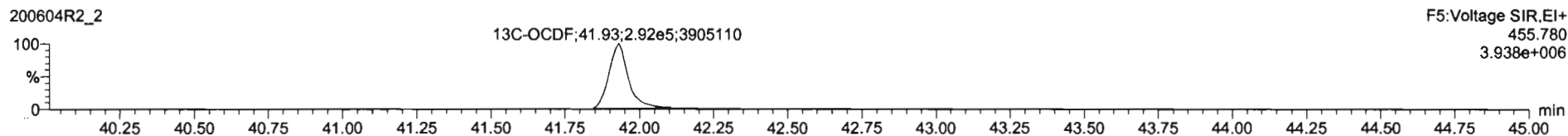
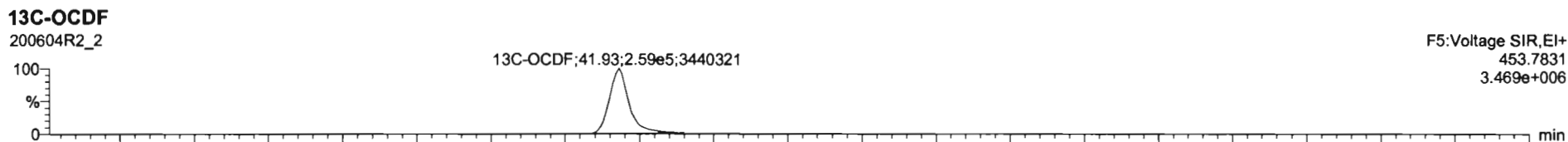
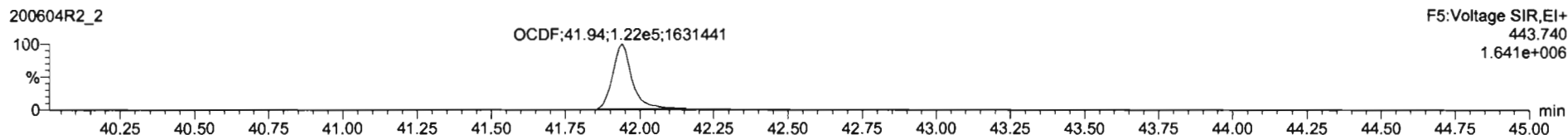
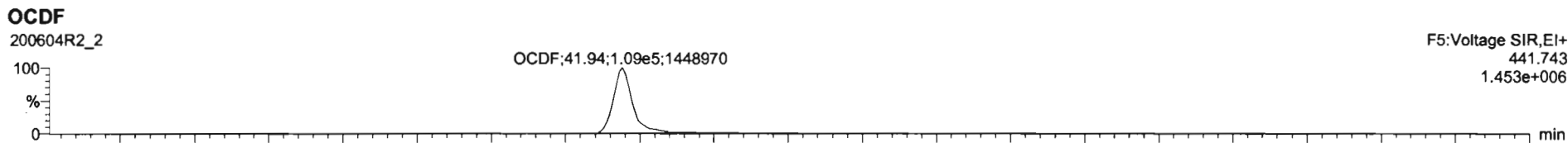
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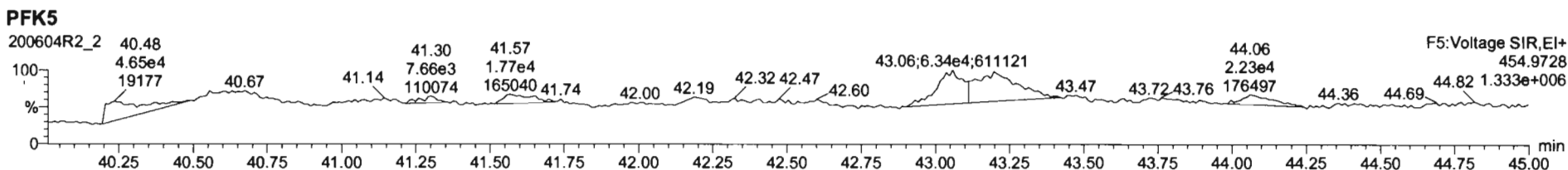
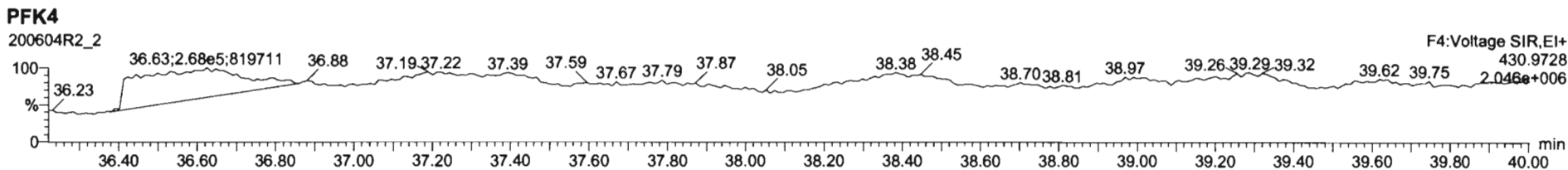
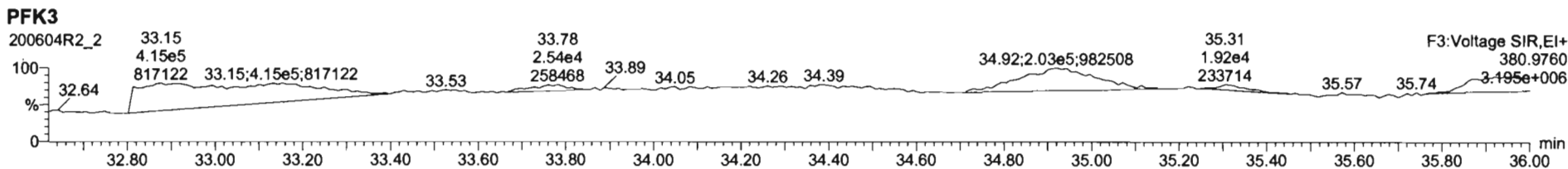
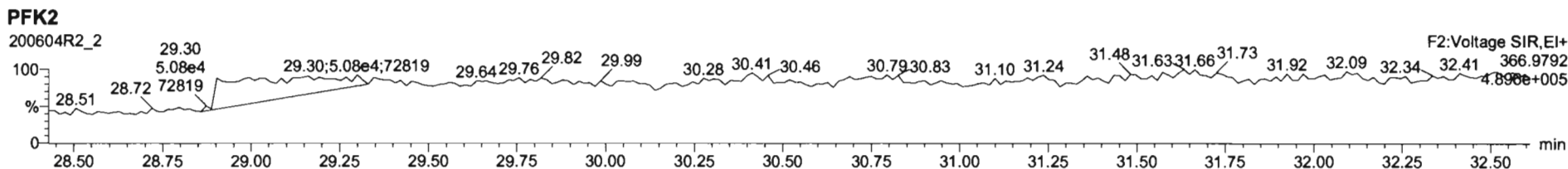
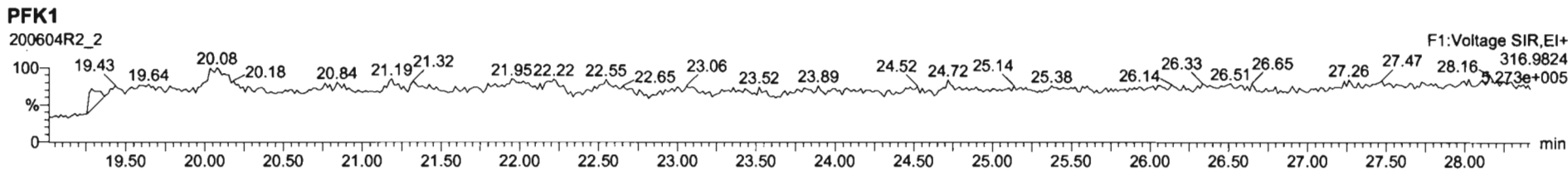
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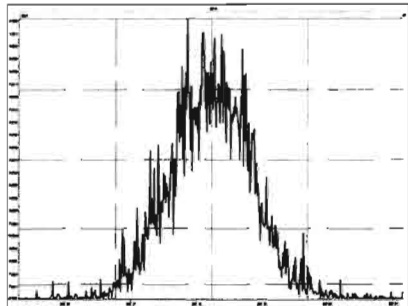
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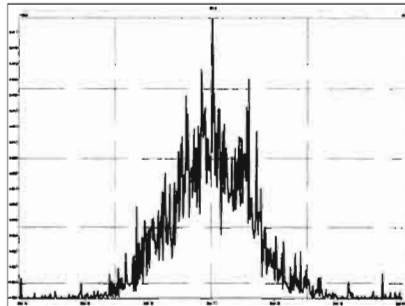


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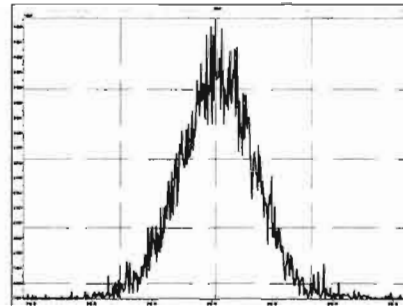
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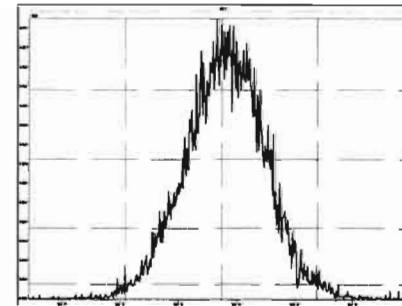
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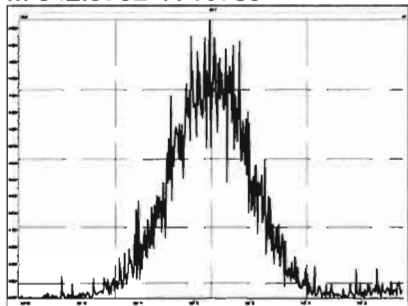
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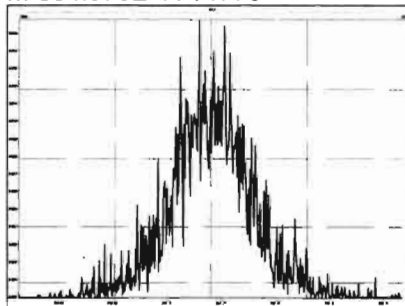
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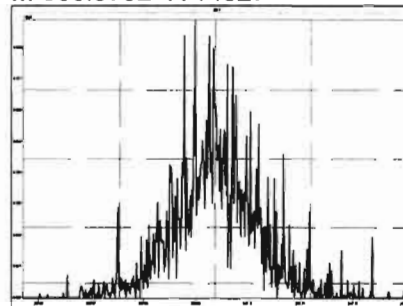
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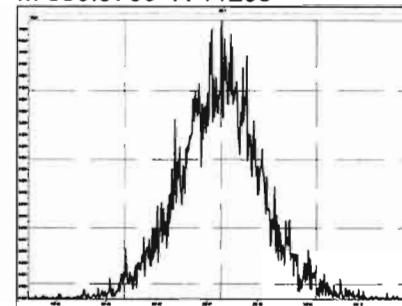
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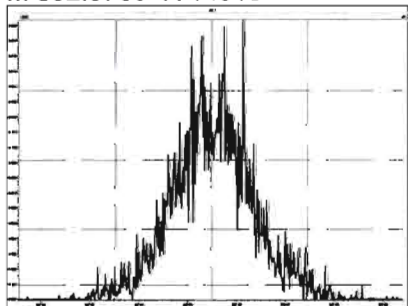
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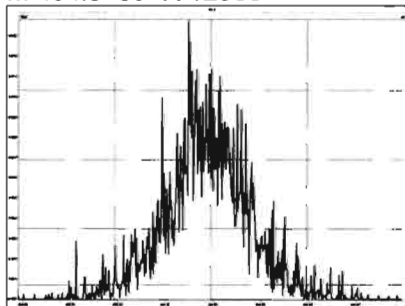
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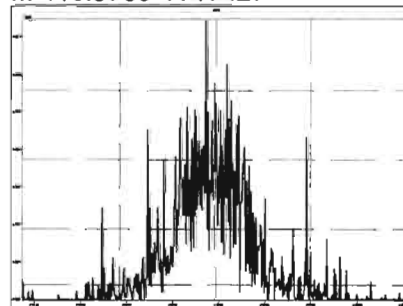
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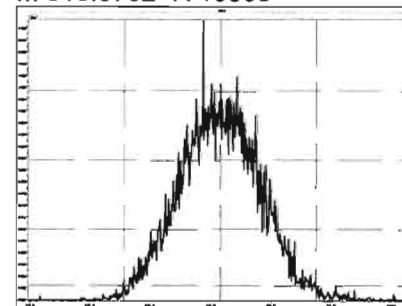
M 404.9760 R 12533



M 416.9760 R 17427

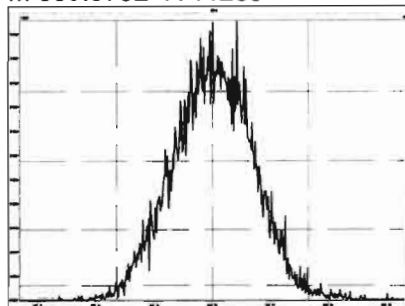


M 318.9792 R 10908

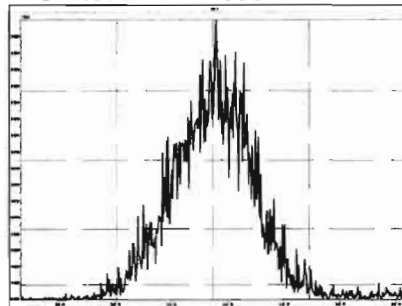


Printed: Friday, June 05, 2020 08:28:23 Pacific Daylight Time

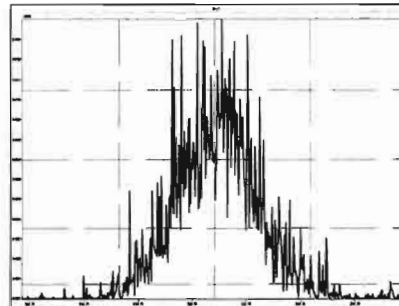
M 330.9792 R 11289



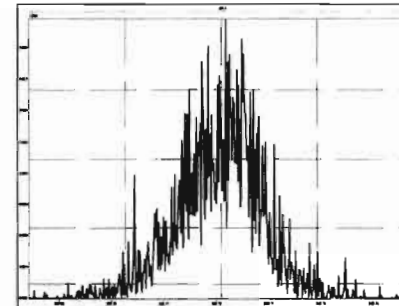
M 342.9792 R 11685



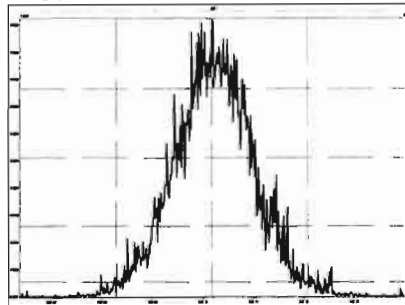
M 354.9792 R 13135



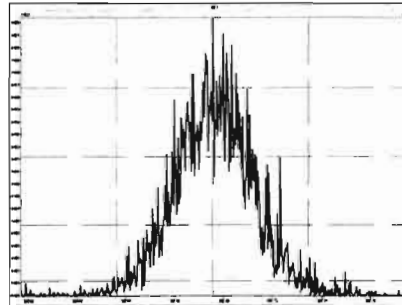
M 366.9792 R 13671



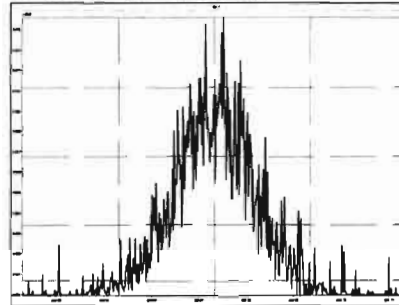
M 380.9760 R 10869



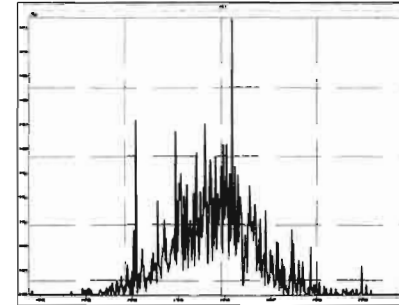
M 392.9760 R 12562



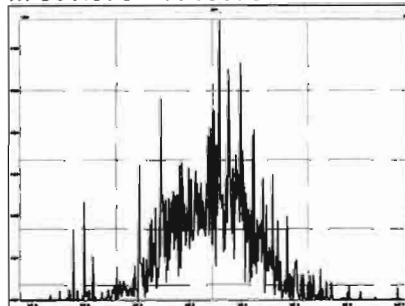
M 404.9760 R 12319



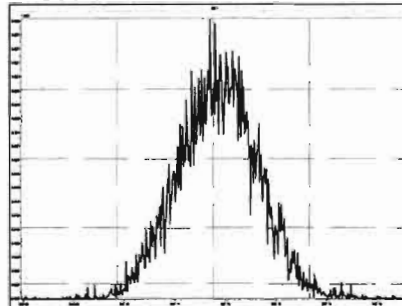
M 416.9760 R 14060



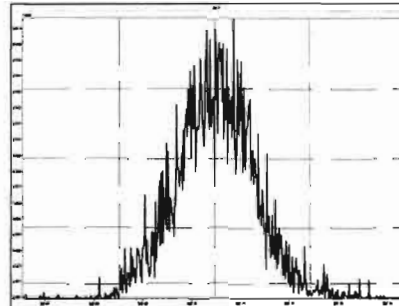
M 366.9792 R 15075



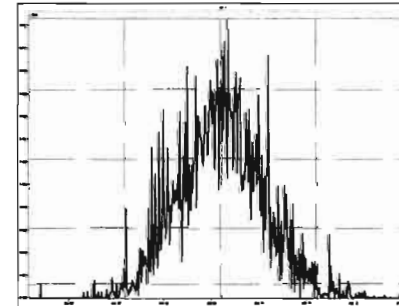
M 380.9760 R 10653



M 392.9760 R 11740

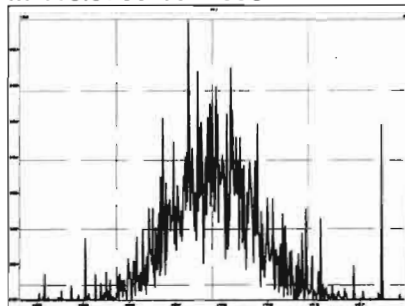


M 404.9760 R 13094

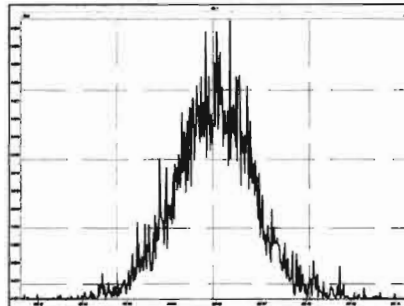


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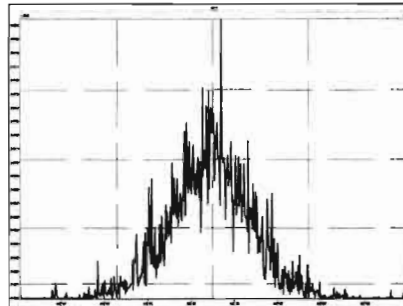
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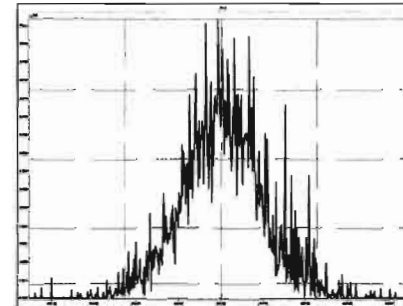
M 430.9728 R 11711



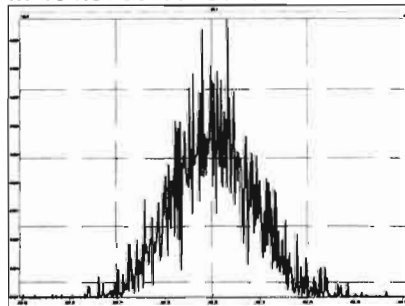
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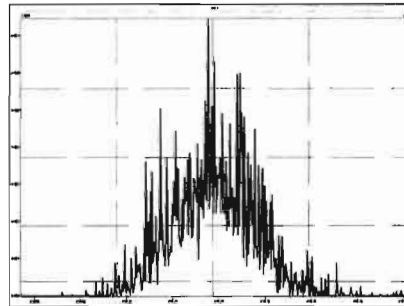
M 454.9728 R 13228



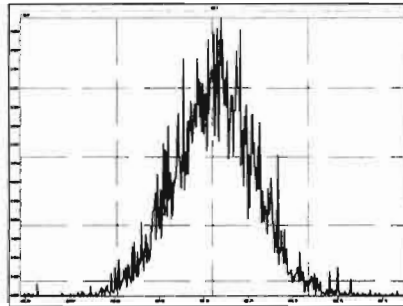
M 404.9760 R 13517



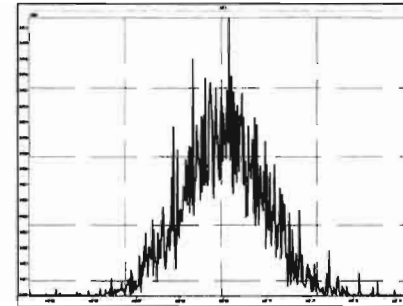
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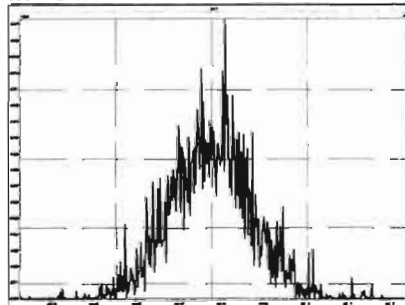
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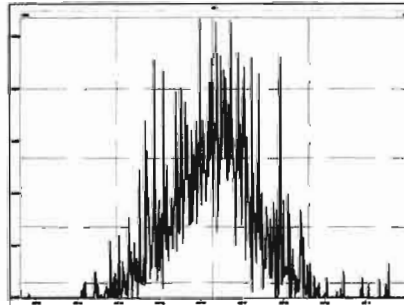
M 442.9728 R 12085



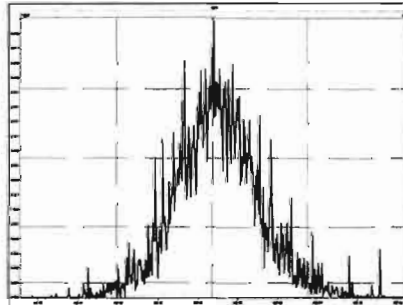
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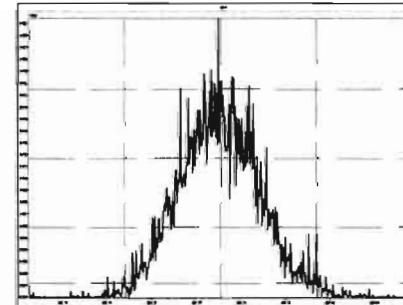
M 466.9728 R 20245



M 480.9696 R 11969

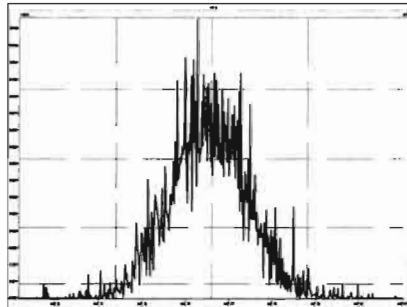


M 430.9728 R 12081

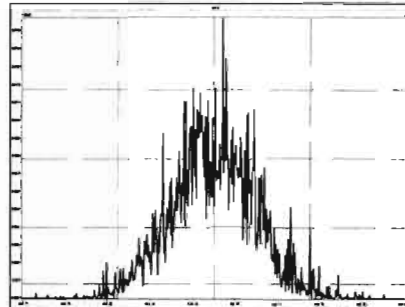


Printed: Friday, June 05, 2020 08:28:23 Pacific Daylight Time

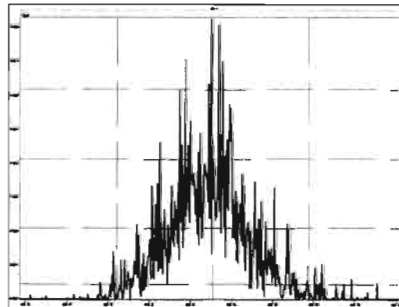
M 442.9728 R 12395



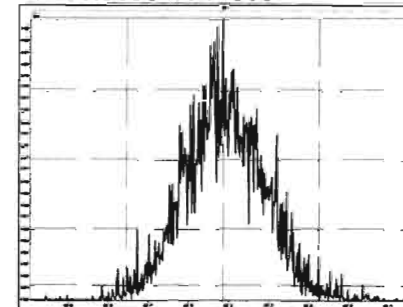
M 454.9728 R 11092



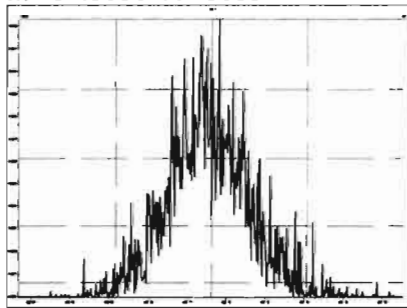
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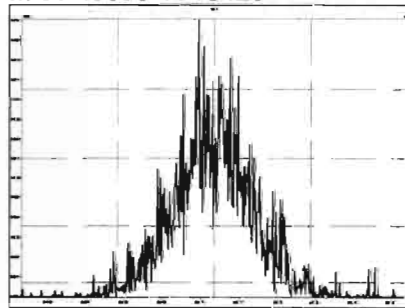
M 480.9696 R 11808



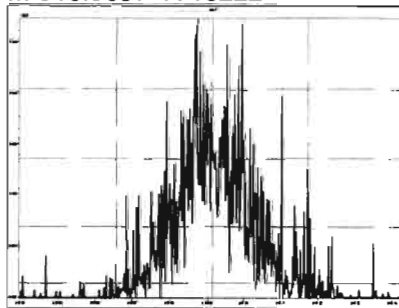
M 492.9696 R 13633



M 504.9696 R 13426



M 516.9697 R 15222



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200605R2-1

Reviewed By: C7 06/08/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA	Mass resolution \geq	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1614 1699 429 1613/1668/8280		
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GC Break <20%	<input type="checkbox"/> NA	
Verification Std. named correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>8280 CS1 End Standard:</u>		
(ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours	<input type="checkbox"/> NA	
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Comments:	<div style="height: 150px;"></div>	
Correct ICAL referenced?	<u>GRB</u>	<u> </u>			
<u>Run Log:</u>					
- Correct Instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> ↓			
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> (Y)	<input type="checkbox"/> N			
- Bottle position verified?	<u>GRB</u>				

Dataset: U:\VG12.PRO\Results\200605R2\200605R2-2.qld

Last Altered: Sunday, June 07, 2020 08:00:38 Pacific Daylight Time

Printed: Sunday, June 07, 2020 08:05:25 Pacific Daylight Time

GRB 06/07/2020

C106/08/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\cb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200605R2_2, Date: 05-Jun-2020, Time: 23:08:50, ID: ST200605R2_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	7.30e4	8.31e5	0.75	NO	0.888	26.53	26.51	NO	1.001	1.001	9.8836	98.8	NO
2	2 1.2.3.7.8-PeCDD	2.63e5	6.06e5	0.62	NO	0.908	31.49	31.48	NO	1.001	1.000	47.742	95.5	NO
3	3 1.2.3.4.7.8-HxCDD	2.11e5	4.21e5	1.22	NO	1.03	34.85	34.85	NO	1.000	1.000	48.606	97.2	NO
4	4 1.2.3.6.7.8-HxCDD	2.33e5	5.33e5	1.22	NO	0.892	34.94	34.95	NO	1.000	1.000	48.973	97.9	NO
5	5 1.2.3.7.8.9-HxCDD	2.03e5	4.72e5	1.25	NO	0.887	35.23	35.24	NO	1.000	1.001	48.422	96.8	NO
6	6 1.2.3.4.6.7.8-HpCDD	1.50e5	3.60e5	1.02	NO	0.864	38.78	38.78	NO	1.000	1.000	48.349	96.7	NO
7	7 OCDD	3.13e5	6.82e5	0.86	NO	0.914	41.75	41.76	NO	1.000	1.000	100.58	101	NO
8	8 2.3.7.8-TCDF	7.70e4	1.07e6	0.74	NO	0.751	25.63	25.63	NO	1.001	1.001	9.5550	95.5	NO
9	9 1.2.3.7.8-PeCDF	3.87e5	8.91e5	1.57	NO	0.893	30.19	30.18	NO	1.001	1.000	48.709	97.4	NO
10	10 2.3.4.7.8-PeCDF	3.95e5	8.72e5	1.55	NO	0.935	31.19	31.18	NO	1.001	1.000	48.466	96.9	NO
11	11 1.2.3.4.7.8-HxCDF	2.48e5	5.45e5	1.19	NO	0.884	33.96	33.97	NO	1.000	1.000	51.522	103	NO
12	12 1.2.3.6.7.8-HxCDF	2.85e5	6.24e5	1.16	NO	0.889	34.09	34.10	NO	1.000	1.001	51.337	103	NO
13	13 2.3.4.6.7.8-HxCDF	2.63e5	5.68e5	1.21	NO	0.934	34.70	34.69	NO	1.001	1.001	49.481	99.0	NO
14	14 1.2.3.7.8.9-HxCDF	1.99e5	4.50e5	1.22	NO	0.871	35.59	35.60	NO	1.000	1.000	50.878	102	NO
15	15 1.2.3.4.6.7.8-HpCDF	1.85e5	4.15e5	0.99	NO	0.873	37.40	37.37	NO	1.001	1.000	51.032	102	NO
16	16 1.2.3.4.7.8.9-HpCDF	1.40e5	2.67e5	0.98	NO	1.01	39.32	39.33	NO	1.000	1.000	51.680	103	NO
17	17 OCDF	3.07e5	7.53e5	0.84	NO	0.806	41.95	41.96	NO	1.000	1.000	101.23	101	NO
18	18 13C-2.3.7.8-TCDD	8.31e5	7.05e5	0.78	NO	1.16	26.52	26.50	NO	1.026	1.026	101.88	102	NO
19	19 13C-1.2.3.7.8-PeCDD	6.06e5	7.05e5	0.63	NO	0.849	31.71	31.47	NO	1.227	1.218	101.13	101	NO
20	20 13C-1.2.3.4.7.8-HxCDD	4.21e5	5.48e5	1.29	NO	0.779	34.84	34.84	NO	1.014	1.014	98.434	98.4	NO
21	21 13C-1.2.3.6.7.8-HxCDD	5.33e5	5.48e5	1.27	NO	1.02	34.95	34.94	NO	1.017	1.017	95.656	95.7	NO
22	22 13C-1.2.3.7.8.9-HxCDD	4.72e5	5.48e5	1.26	NO	0.903	35.23	35.22	NO	1.025	1.025	95.298	95.3	NO
23	23 13C-1.2.3.4.6.7.8-HpCDD	3.60e5	5.48e5	1.03	NO	0.689	38.75	38.77	NO	1.128	1.128	95.301	95.3	NO
24	24 13C-OCDD	6.82e5	5.48e5	0.88	NO	0.652	41.77	41.75	NO	1.216	1.215	190.64	95.3	NO
25	25 13C-2.3.7.8-TCDF	1.07e6	1.00e6	0.78	NO	1.06	25.56	25.60	NO	0.989	0.991	101.35	101	NO
26	26 13C-1.2.3.7.8-PeCDF	8.91e5	1.00e6	1.59	NO	0.838	30.09	30.17	NO	1.165	1.168	106.32	106	NO
27	27 13C-2.3.4.7.8-PeCDF	8.72e5	1.00e6	1.58	NO	0.817	31.05	31.16	NO	1.202	1.206	106.70	107	NO
28	28 13C-1.2.3.4.7.8-HxCDF	5.45e5	5.48e5	0.50	NO	1.01	33.97	33.96	NO	0.989	0.988	98.624	98.6	NO
29	29 13C-1.2.3.6.7.8-HxCDF	6.24e5	5.48e5	0.50	NO	1.17	34.10	34.08	NO	0.992	0.992	97.551	97.6	NO
30	30 13C-2.3.4.6.7.8-HxCDF	5.68e5	5.48e5	0.52	NO	1.02	34.67	34.67	NO	1.009	1.009	101.36	101	NO
31	31 13C-1.2.3.7.8.9-HxCDF	4.50e5	5.48e5	0.50	NO	0.860	35.57	35.59	NO	1.035	1.036	95.462	95.5	NO

Dataset: U:\VG12.PRO\Results\200605R2\200605R2-2.qld

Last Altered: Sunday, June 07, 2020 08:00:38 Pacific Daylight Time

Printed: Sunday, June 07, 2020 08:05:25 Pacific Daylight Time

EO, ID: ST200605R2_2, Date: 05 June 2020, Time: 23:08:50, ID: ST200605R2_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	4.15e5	5.48e5	0.43	NO	0.774	37.32	37.36	NO	1.086	1.087	97.768	97.8	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.67e5	5.48e5	0.44	NO	0.521	39.35	39.32	NO	1.145	1.145	93.514	93.5	NO
34	34 13C-OCDF	7.53e5	5.48e5	0.82	NO	0.746	41.95	41.95	NO	1.221	1.221	184.09	92.0	NO
35	35 37Cl-2,3,7,8-TCDD	7.85e4	7.05e5			1.04	26.55	26.51	NO	1.028	1.026	10.736	107	NO
36	36 13C-1,2,3,4-TCDD	7.05e5	7.05e5	0.80	NO	1.00	25.89	25.84	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.00e6	1.00e6	0.77	NO	1.00	24.36	24.16	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	5.48e5	5.48e5	0.50	NO	1.00	34.42	34.36	NO	1.000	1.000	100.00	100	YES <i>OK</i>

Dataset: Untitled

Last Altered: Sunday, June 07, 2020 08:02:01 Pacific Daylight Time

Printed: Sunday, June 07, 2020 08:02:26 Pacific Daylight Time

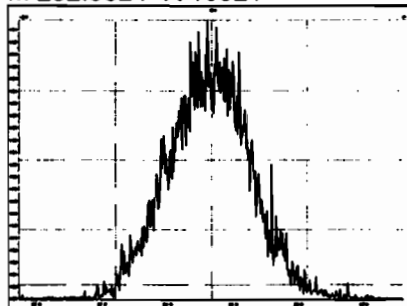
Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

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

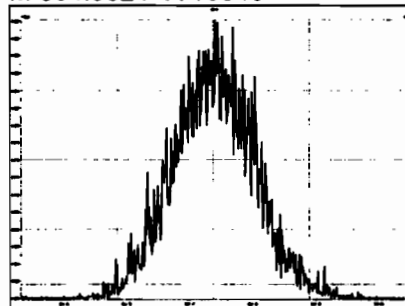
200605R2_1	SOLVENT BLANK	05-Jun-20	22:22:35
200605R2_2	ST200605R2_1 1613 CS3 19L2305	05-Jun-20	23:08:50
200605R2_3	SOLVENT BLANK	05-Jun-20	23:55:04
200605R2_4	2000995-12 PDI-1072SC-B-02-04-200430 16.14	06-Jun-20	00:41:18
200605R2_5	2000999-01 PDI-065SC-A-02-03-200429 16.92	06-Jun-20	01:27:31
200605R2_6	2000999-02 PDI-065SC-A-03-04-200429 15.97	06-Jun-20	02:13:46
200605R2_7	2000999-03 PDI-065SC-A-04-05-200429 15.55	06-Jun-20	03:00:00
200605R2_8	2000999-04 PDI-065SC-A-05-06-200429 15.25	06-Jun-20	03:46:13
200605R2_9	2000999-05 PDI-065SC-A-06-07-200429 15.41	06-Jun-20	04:32:27
200605R2_10	2000999-06 PDI-065SC-A-07-08-200429 14.64	06-Jun-20	05:18:41
200605R2_11	2000999-07 PDI-065SC-A-08-09-200429 15.1	06-Jun-20	06:04:56
200605R2_12	2000999-08 PDI-065SC-B-00-02-200429 14.96	06-Jun-20	06:51:09
200605R2_13	2000999-09 PDI-065SC-B-02-05-200429 15.9	06-Jun-20	07:37:23
200605R2_14	BOE0100-DUP3 Duplicate 15.92	06-Jun-20	08:23:37
200605R2_15	2000999-10 PDI-065SC-B-05-07-200429 14.99	06-Jun-20	09:09:51
200605R2_16	2000999-11 PDI-1065SC-B-00-02-200429 14.61	06-Jun-20	09:56:06
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Printed: Friday, June 05, 2020 22:22:32 Pacific Daylight Time

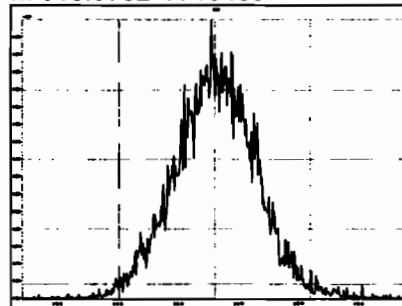
M 292.9824 R 10921



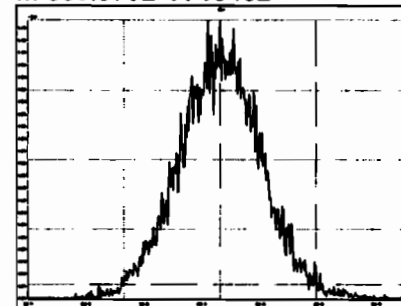
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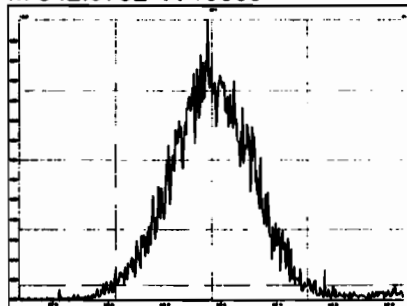
M 318.9792 R 10460



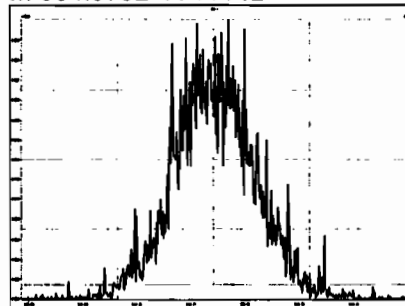
M 330.9792 R 10482



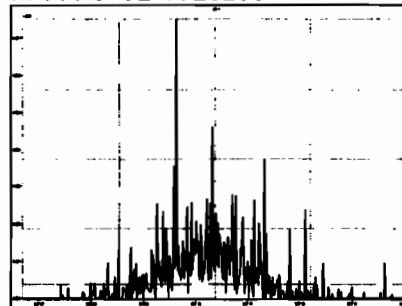
M 342.9792 R 10330



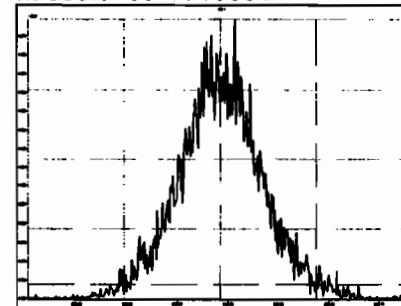
M 354.9792 R 11142



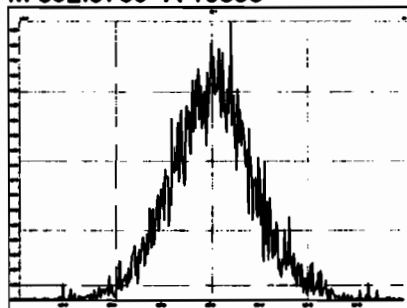
M 366.9792 R 25205



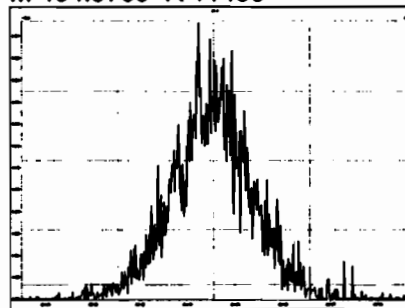
M 380.9760 R 10661



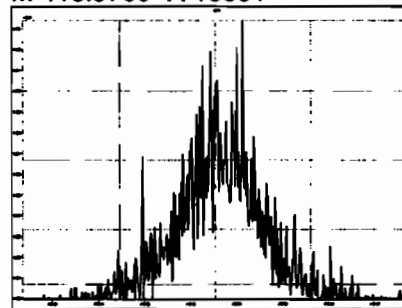
M 392.9760 R 10595



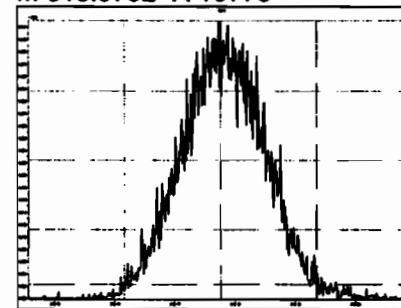
M 404.9760 R 11436



M 416.9760 R 13851

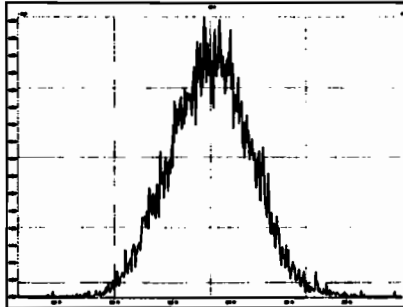


M 318.9792 R 10775

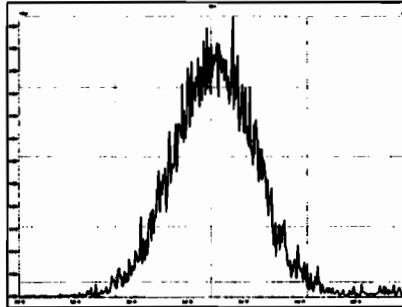


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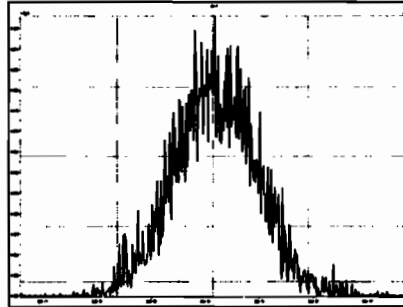
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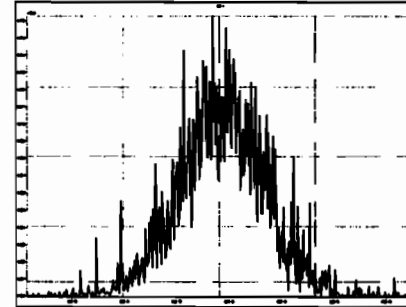
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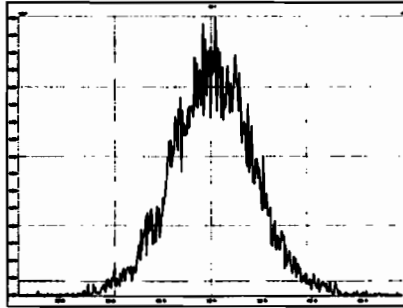
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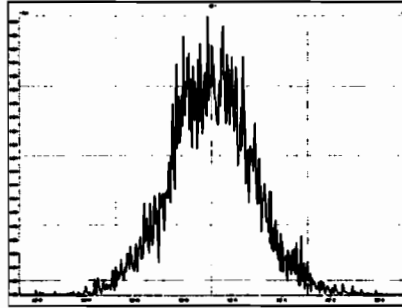
M 366.9792 R 11440



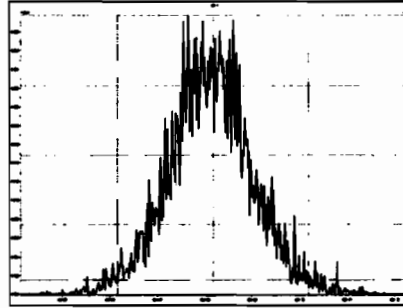
M 380.9760 R 10142



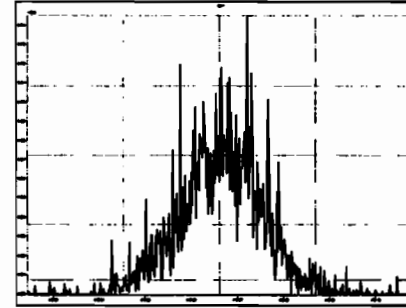
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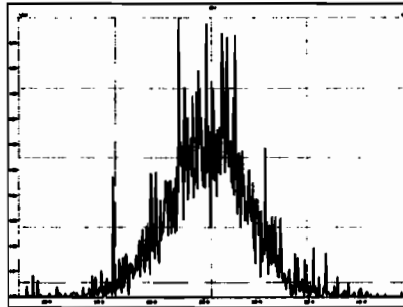
M 404.9760 R 11186



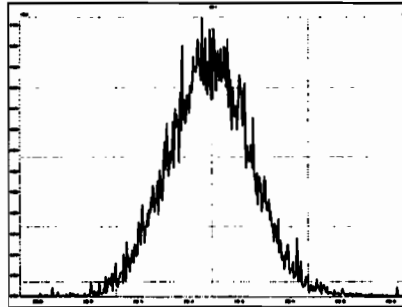
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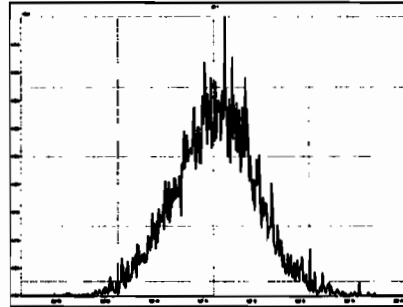
M 366.9792 R 11940



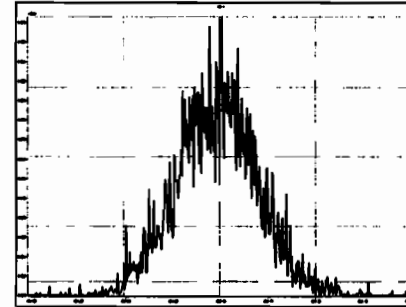
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M 392.9760 R 10782

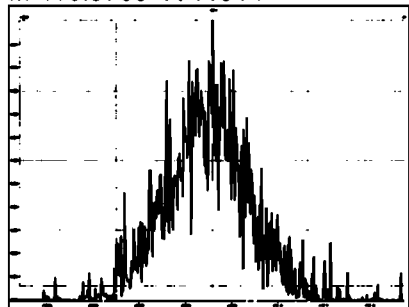


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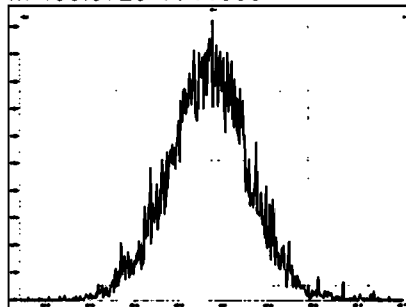


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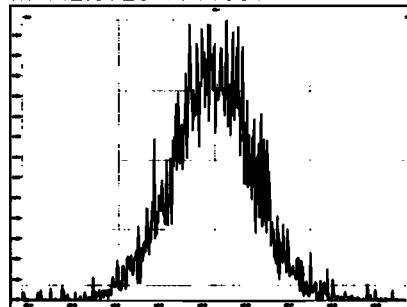
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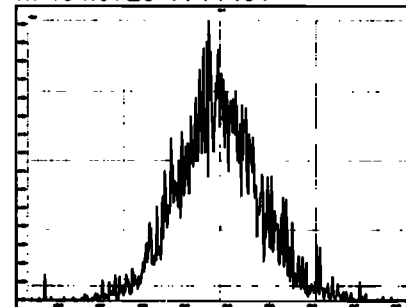
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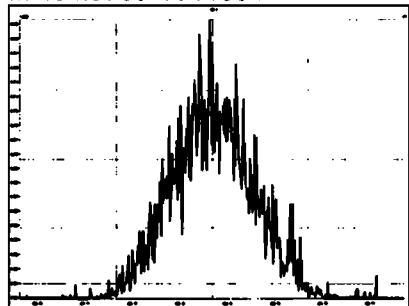
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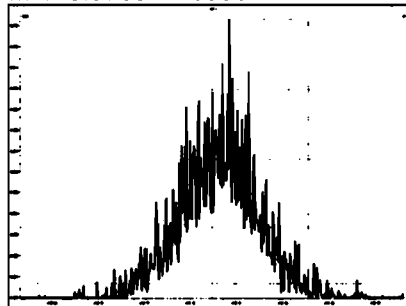
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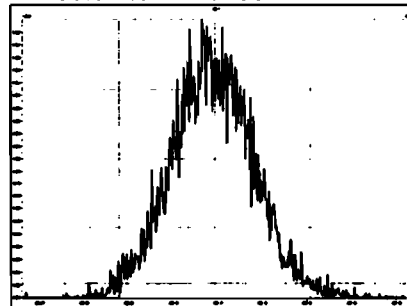
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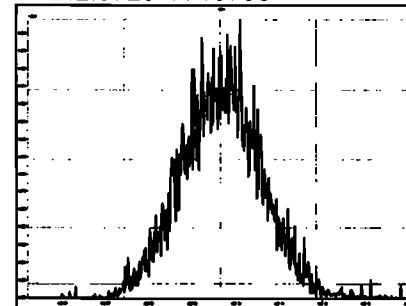
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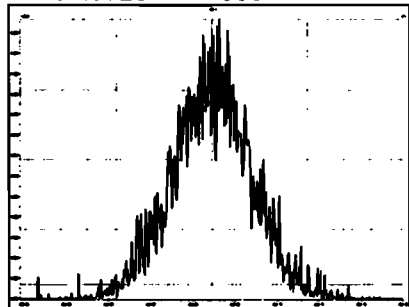
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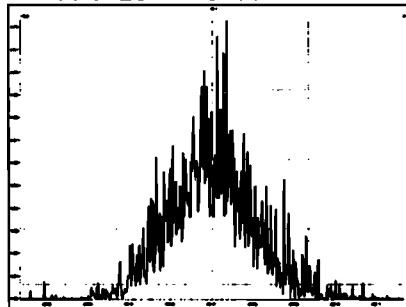
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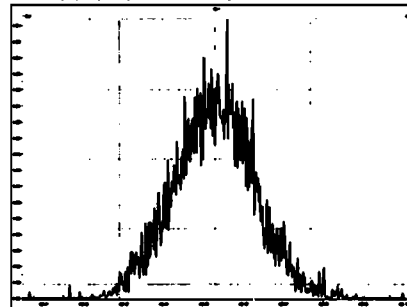
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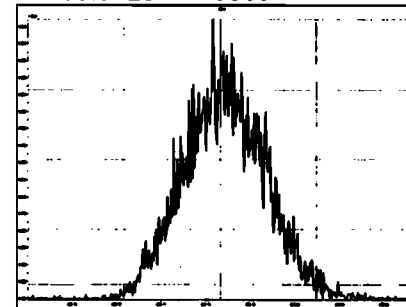
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M 480.9696 R 11573

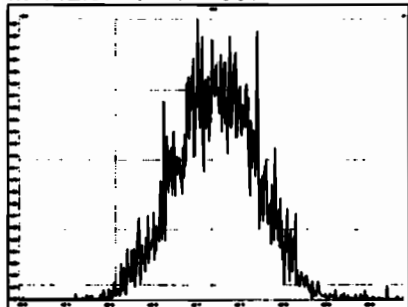


M 430.9728 R 10869

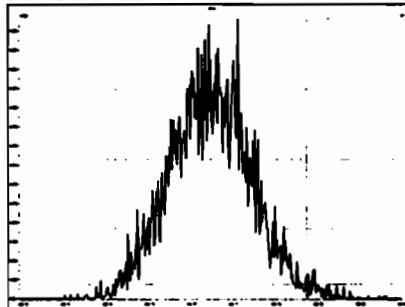


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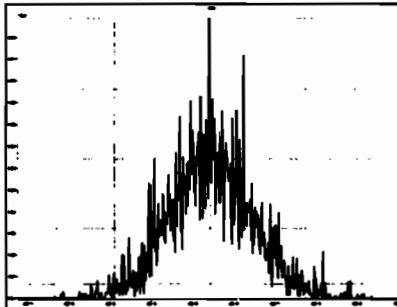
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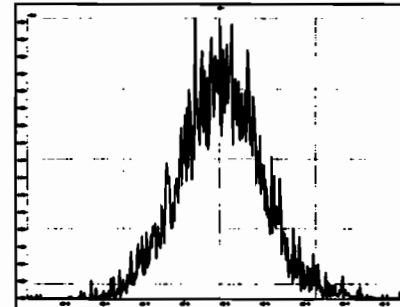
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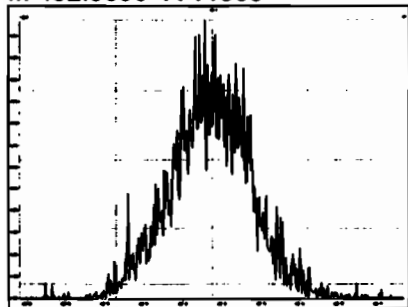
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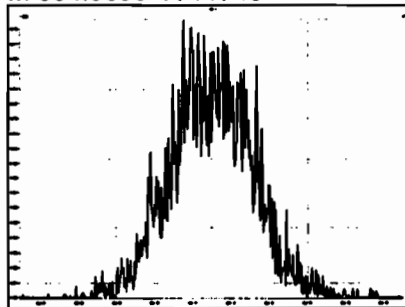
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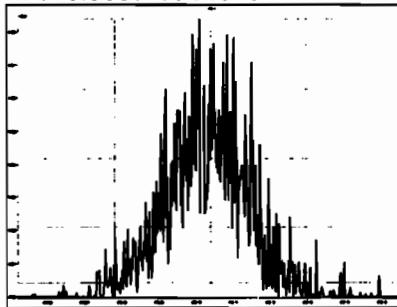
M 492.9696 R 11363



M 504.9696 R 11743



M 516.9697 R 14046



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Printed: Sunday, June 07, 2020 08:01:26 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200605R2_2, Date: 05-Jun-2020, Time: 23:08:50, ID: ST200605R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	RT
1 1,3,6,8-TCDD (First)	22.49
2 1,2,8,9-TCDD (Last)	27.47
3 1,2,4,7,9-PeCDD (First)	29.25
4 1,2,3,8,9-PeCDD (Last)	31.86
5 1,2,4,6,7,9-HxCDD (First)	33.34
6 1,2,3,7,8,9-HxCDD (Last)	35.24
7 1,2,3,4,6,7,9-HpCDD (First)	37.76
8 1,2,3,4,6,7,8-HpCDD (Last)	38.78
9 1,3,6,8-TCDF (First)	20.36
10 1,2,8,9-TCDF (Last)	27.62
11 1,3,4,6,8-PeCDF (First)	27.58
12 1,2,3,8,9-PeCDF (Last)	32.11
13 1,2,3,4,6,8-HxCDF (First)	32.79
14 1,2,3,7,8,9-HxCDF (Last)	35.60
15 1,2,3,4,6,7,8-HpCDF (First)	37.37
16 1,2,3,4,7,8,9-HpCDF (Last)	39.33

Dataset: Untitled

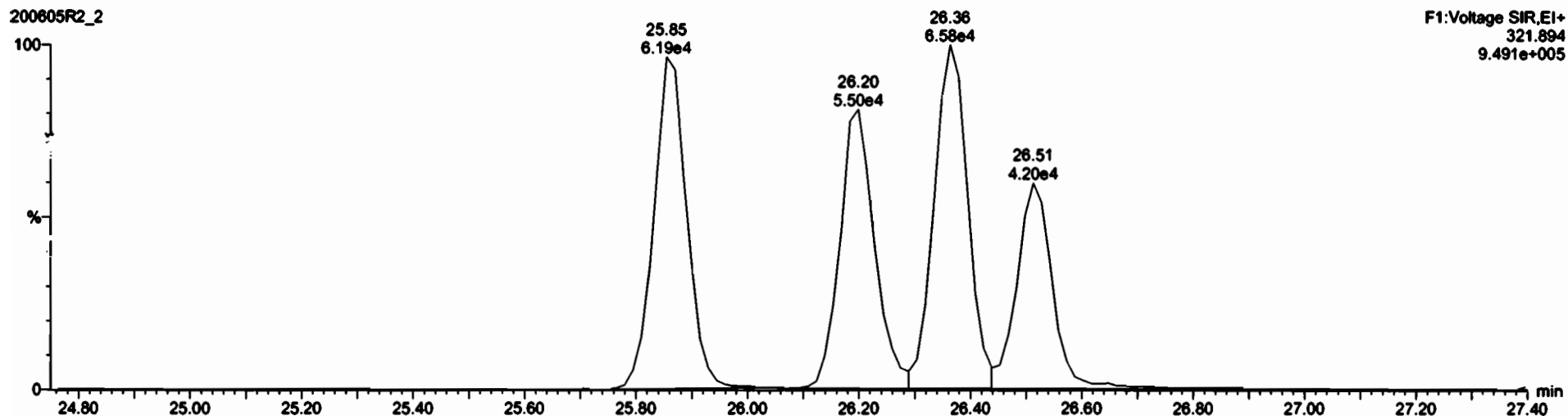
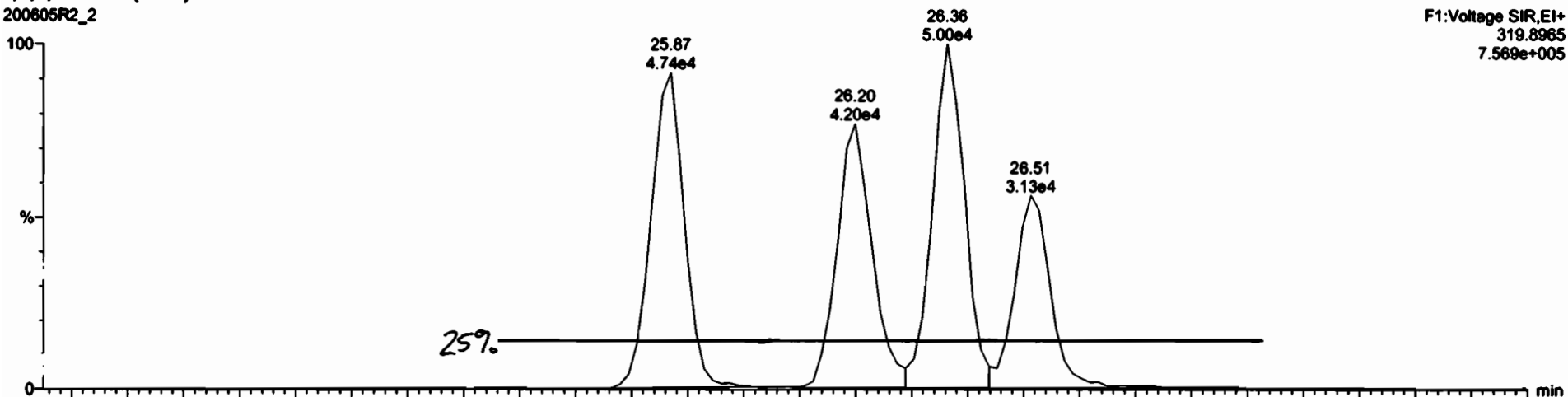
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QRB 06/07/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200605R2_2, Date: 05-Jun-2020, Time: 23:08:50, ID: ST200605R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200605R2_2



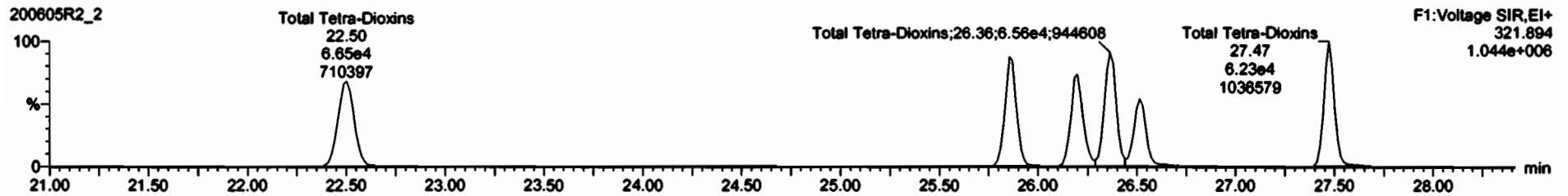
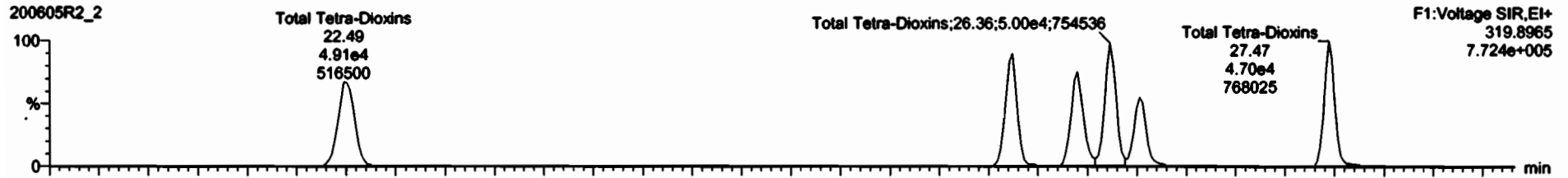
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Printed: Sunday, June 07, 2020 07:59:18 Pacific Daylight Time

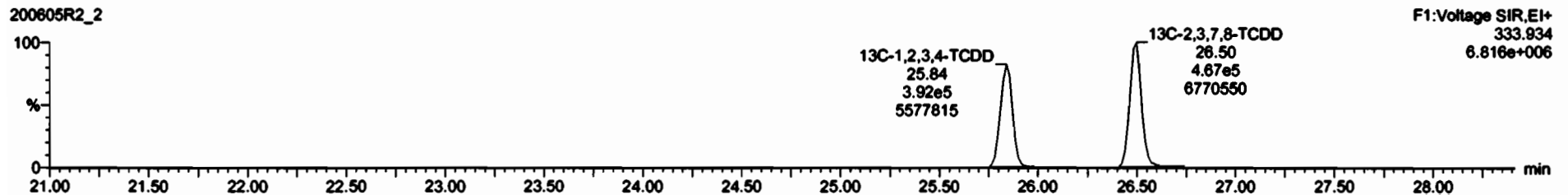
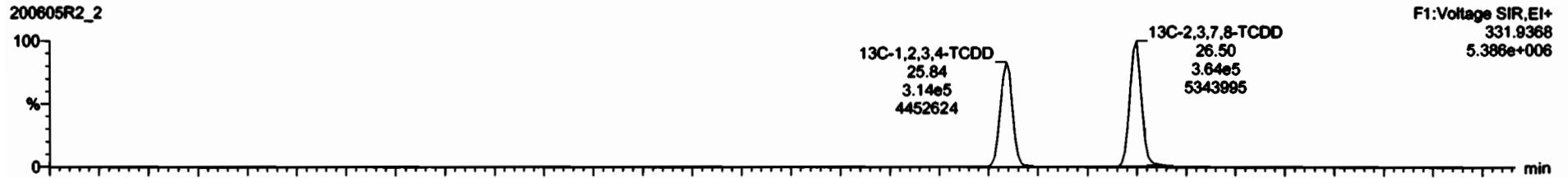
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Name: 200605R2_2, Date: 05-Jun-2020, Time: 23:08:50, ID: ST200605R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



Dataset: Untitled

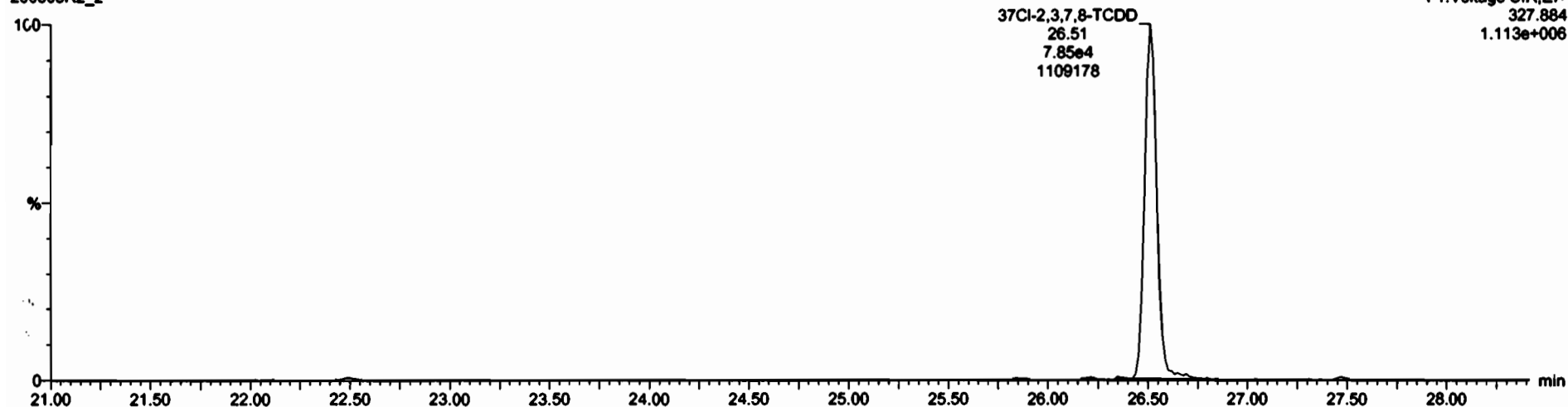
Last Altered: Sunday, June 07, 2020 07:59:02 Pacific Daylight Time

Printed: Sunday, June 07, 2020 07:59:18 Pacific Daylight Time

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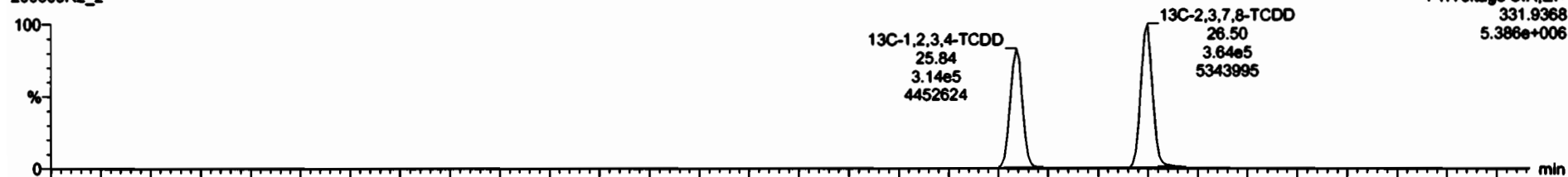
37Cl-2,3,7,8-TCDD

200605R2_2

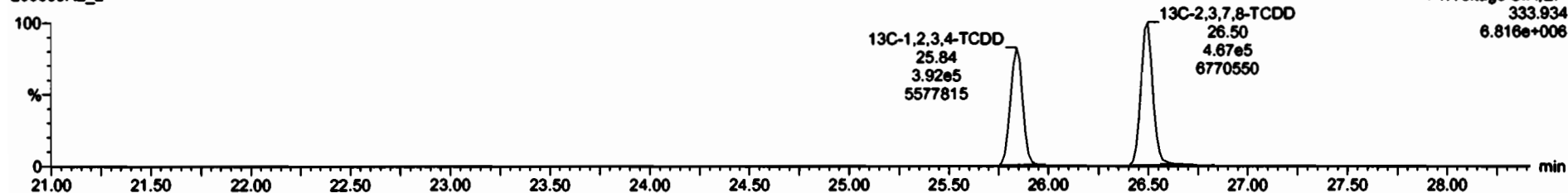


13C-1,2,3,4-TCDD

200605R2_2



200605R2_2



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Printed: Sunday, June 07, 2020 07:59:18 Pacific Daylight Time

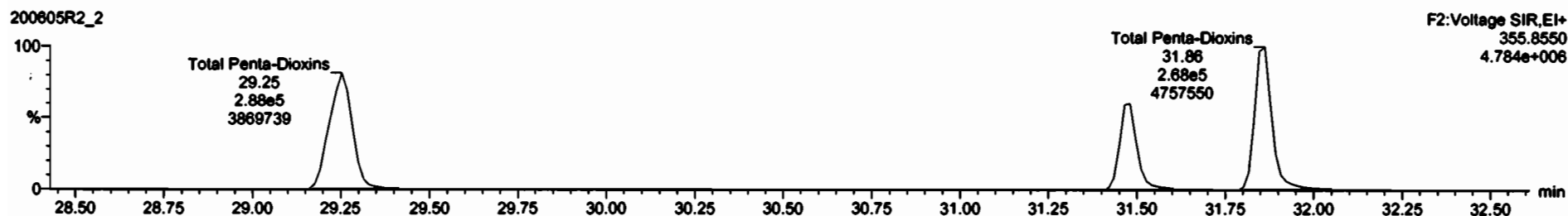
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1,2,3,7,8-PeCDD

200605R2_2



200605R2_2

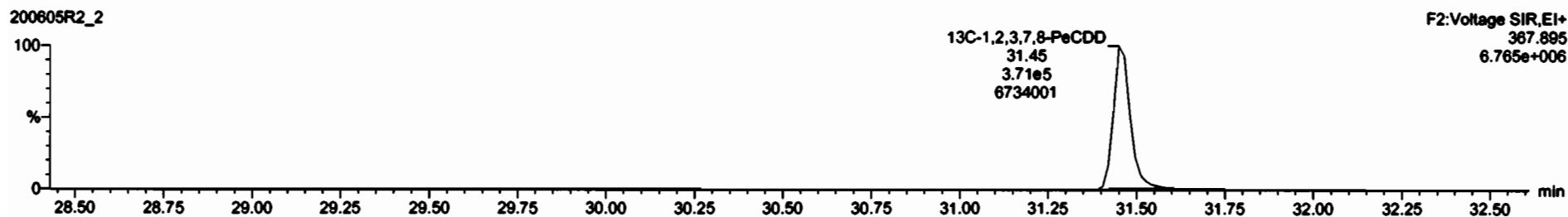


13C-1,2,3,7,8-PeCDD

200605R2_2



200605R2_2



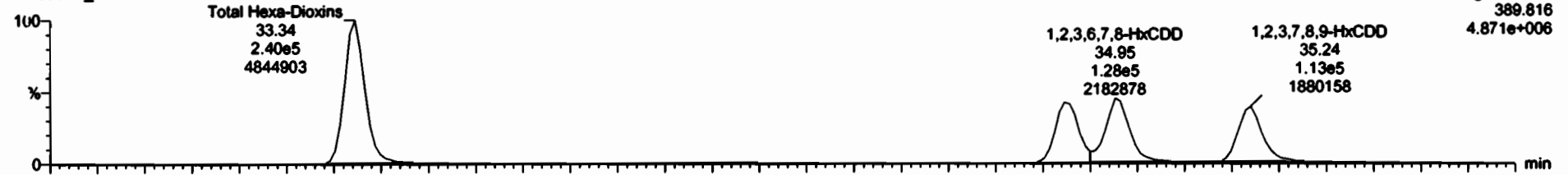
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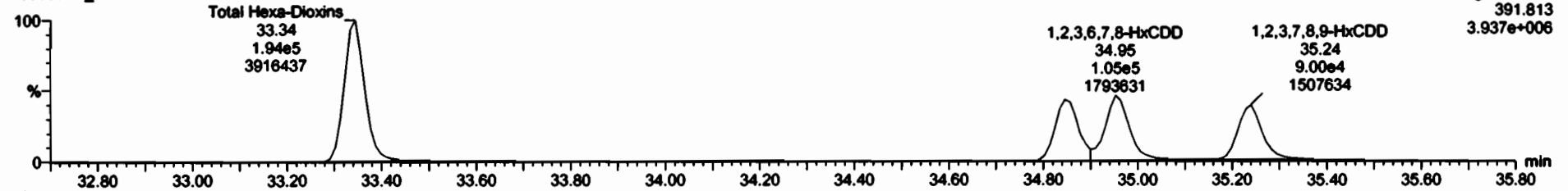
Name: 200605R2_2, Date: 05-Jun-2020, Time: 23:08:50, ID: ST200605R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200605R2_2

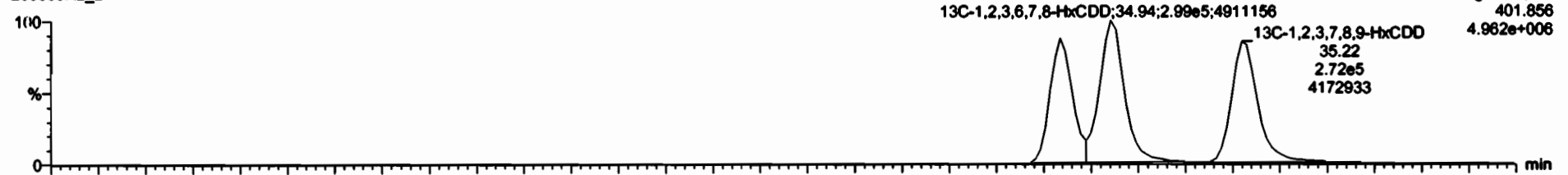


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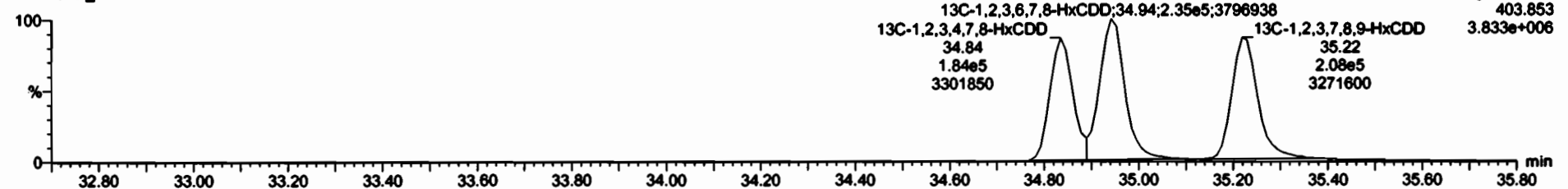


13C-1,2,3,4,7,8-HxCDD

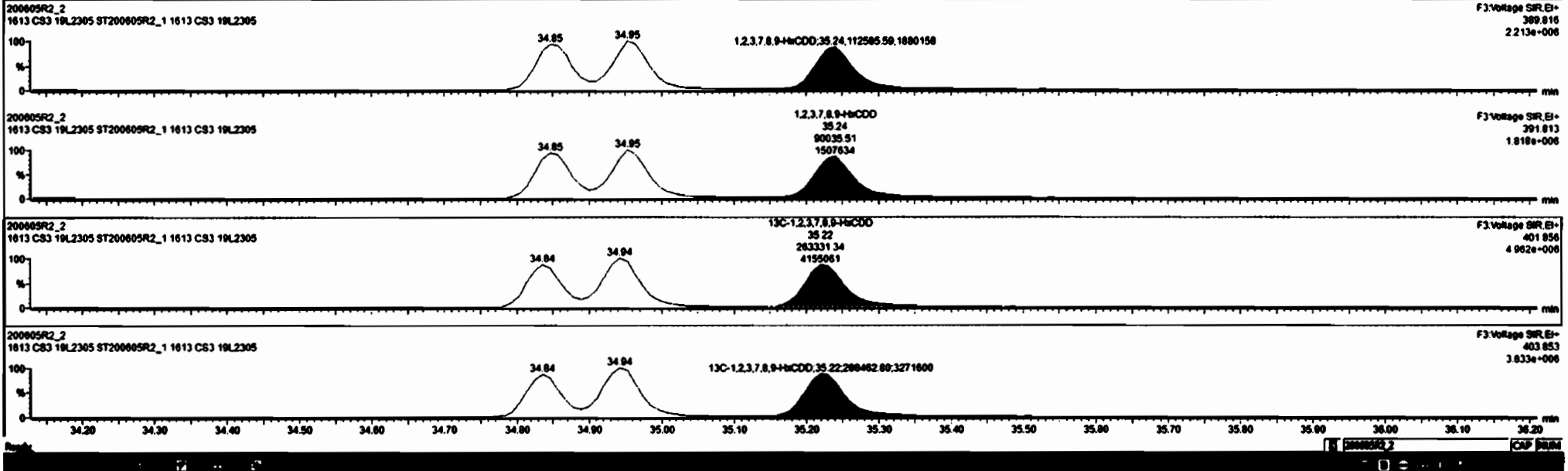
200605R2_2



200605R2_2



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1.2.3.7.8-PeCDD	2.83e6	0.82	NO	0.91	1.000	31.48	1.000	47.7	95.5	0.150	47.7
1.2.3.6.7.8-hxCDD	2.11e5	1.22	NO	1.50	1.000	34.85	1.000	48.6	97.2	0.200	48.6
1.2.3.6.7.8-hxCDF	2.33e5	1.22	NO	0.80	1.000	34.85	1.000	48.6	97.9	0.212	48.6
1.2.3.4.6.7.8-HeCDD	1.98e6	1.02	NO	0.80	1.000	38.78	1.000	48.3	98.7	0.310	48.3
OCDD	3.13e6	0.80	NO	0.91	1.000	41.70	1.000	101	101	0.213	101
2.3.7.8-TCDF	7.79e4	0.74	NO	0.75	1.000	25.63	1.001	9.95	95.5	0.0550	9.95
1.2.3.7.8-PeCDF	3.97e6	1.57	NO	0.80	1.000	38.18	1.001	48.7	97.4	0.144	48.7
2.3.4.7.8-PeCDF	3.95e6	1.55	NO	0.93	1.000	31.18	1.000	48.5	98.9	0.130	48.5
1.2.3.4.7.8-hxCDF	2.48e6	1.19	NO	0.80	1.000	33.97	1.000	51.5	103	0.210	51.5
1.2.3.6.7.8-hxCDF	2.85e6	1.16	NO	0.80	1.000	34.10	1.001	51.3	103	0.201	51.3
2.3.4.6.7.8-hxCDF	2.63e6	1.21	NO	0.93	1.000	34.80	1.001	48.5	99.0	0.217	48.5
1.2.3.7.8-HeCDF	1.98e6	1.22	NO	0.87	1.000	36.80	1.000	50.9	102	0.320	50.9
1.2.3.4.6.7.8-HeCDF	1.87e6	0.90	NO	0.87	1.000	37.37	1.000	51.7	103	0.250	51.7
1.2.3.4.7.8-HeCDF	1.48e6	0.90	NO	1.01	1.000	38.33	1.000	51.7	103	0.277	51.7
OCDF	3.97e6	0.84	NO	0.81	1.000	41.80	1.000	101	101	0.204	101
13C-2.3.7.8-TCDD	8.31e6	0.78	NO	1.16	1.000	26.50	1.025	102	102	0.186	
13C-1.2.3.7.8-PeCDD	6.98e6	0.63	NO	0.95	1.000	31.47	1.218	101	101	0.186	
13C-1.2.3.4.7.8-HeCDD	4.21e6	1.29	NO	0.78	1.000	34.84	1.014	98.4	98.4	0.384	
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Dataset: Untitled

Last Altered: Sunday, June 07, 2020 07:59:02 Pacific Daylight Time

Printed: Sunday, June 07, 2020 07:59:18 Pacific Daylight Time

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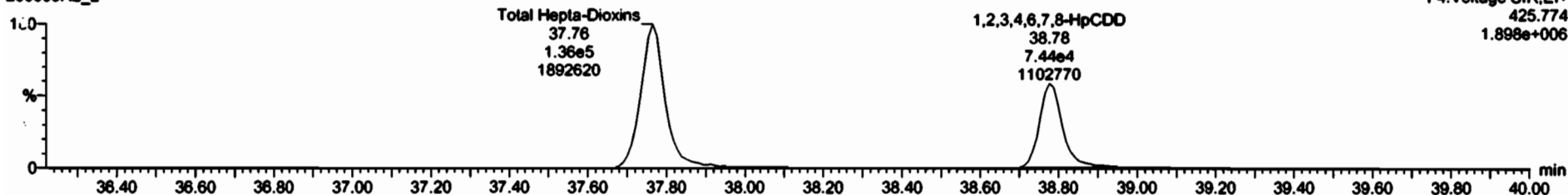
1,2,3,4,6,7,8-HpCDD

200605R2_2



F4:Voltage SIR,EI+
423.777
1.961e+006

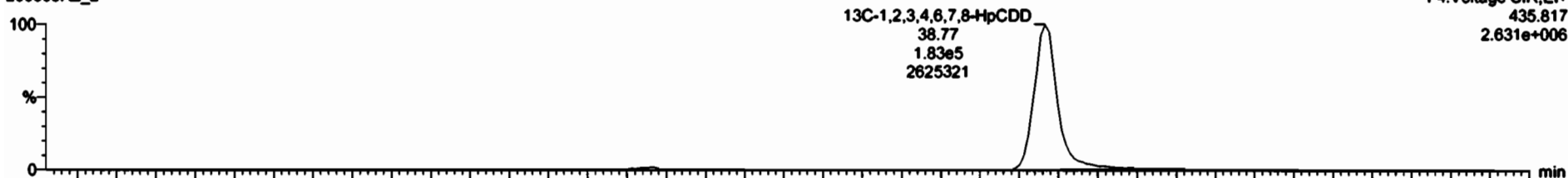
200605R2_2



F4:Voltage SIR,EI+
425.774
1.898e+006

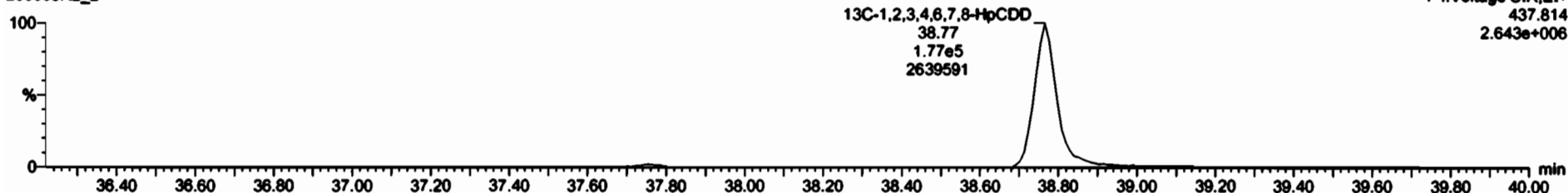
13C-1,2,3,4,6,7,8-HpCDD

200605R2_2



F4:Voltage SIR,EI+
435.817
2.631e+006

200605R2_2



F4:Voltage SIR,EI+
437.814
2.643e+006

Dataset: Untitled

Last Altered: Sunday, June 07, 2020 07:59:02 Pacific Daylight Time

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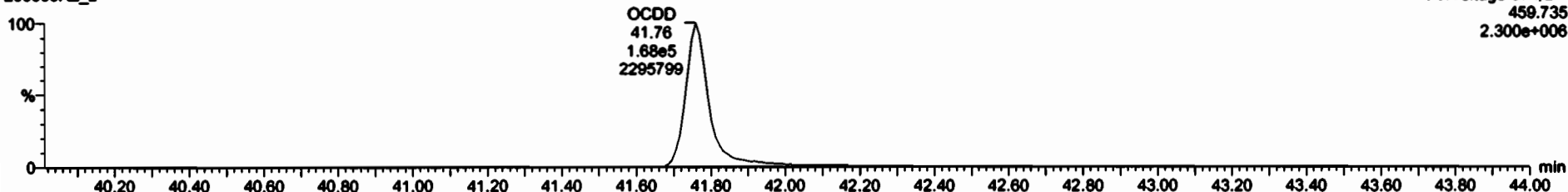
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OCDD

200605R2_2

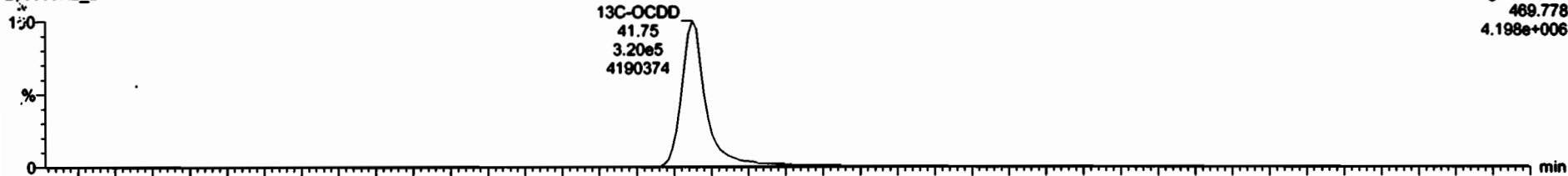


200605R2_2

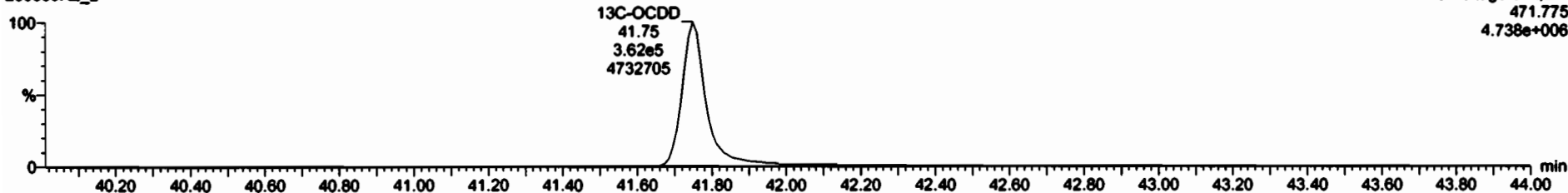


13C-OCDD

200605R2_2



200605R2_2



Dataset: Untitled

Last Altered: Sunday, June 07, 2020 07:59:02 Pacific Daylight Time

Printed: Sunday, June 07, 2020 07:59:18 Pacific Daylight Time

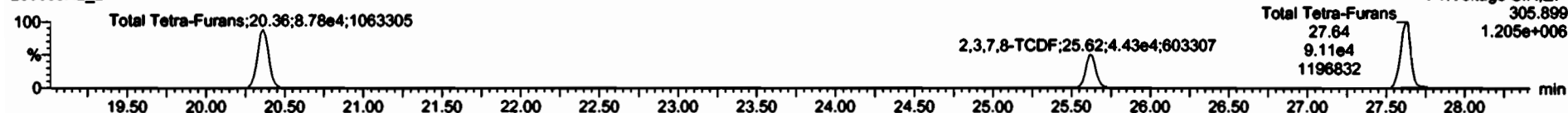
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2,3,7,8-TCDF

200605R2_2

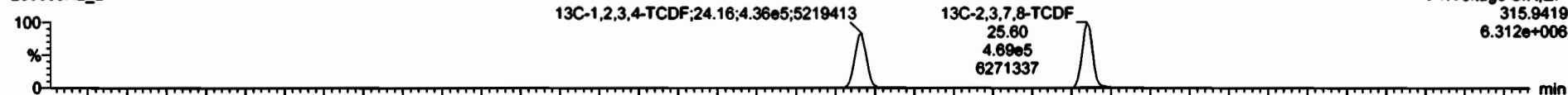


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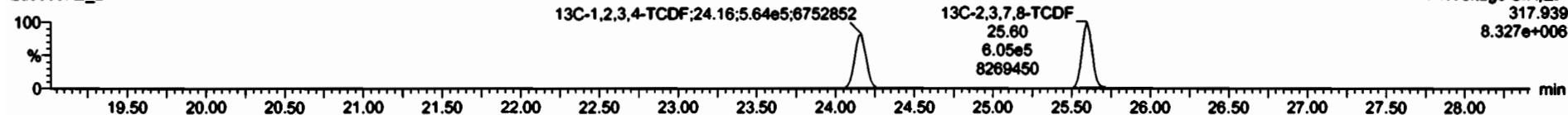


13C-2,3,7,8-TCDF

200605R2_2

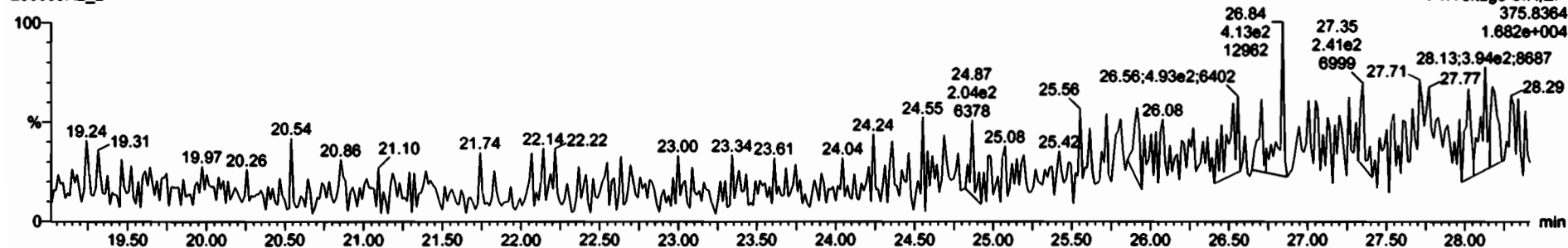


200605R2_2



DPE1

200605R2_2



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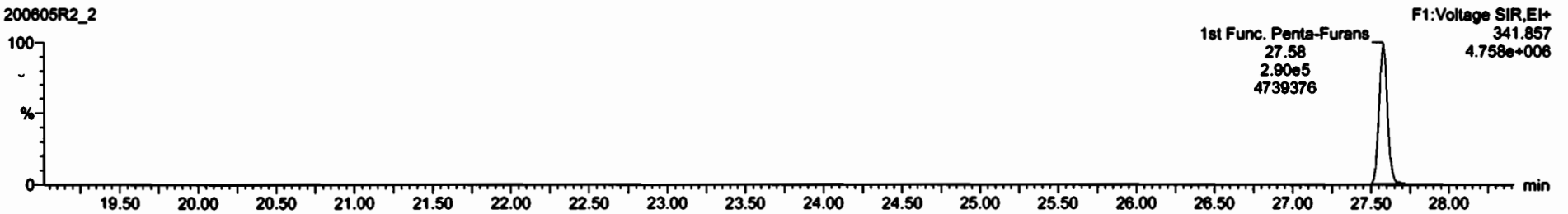
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200605R2_2

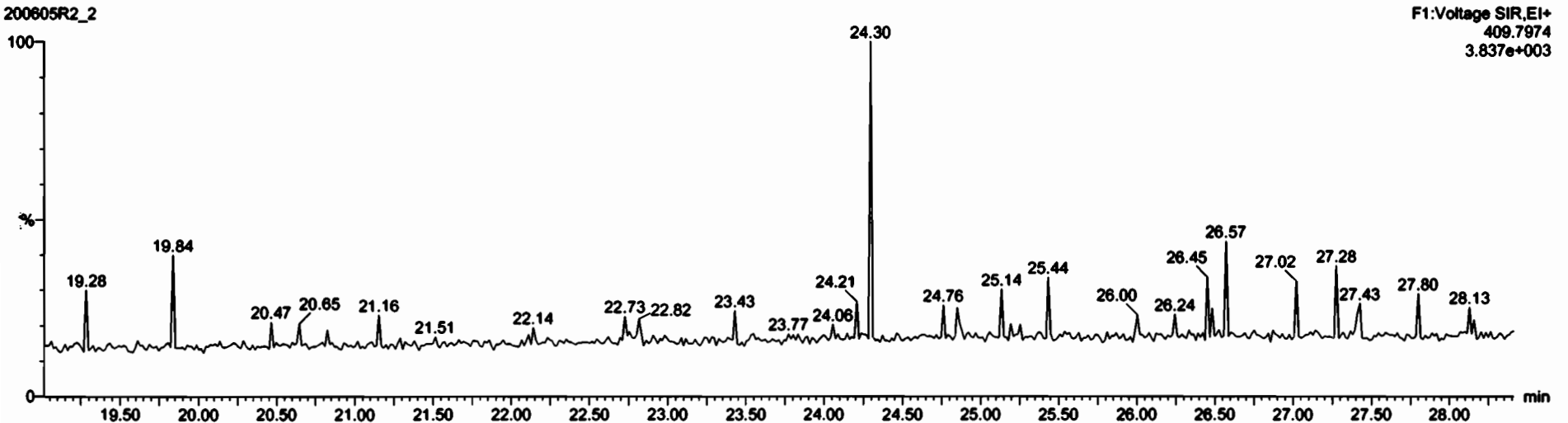


200605R2_2



DPE6

200605R2_2



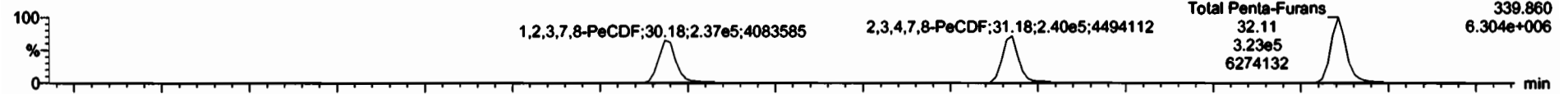
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Printed: Sunday, June 07, 2020 07:59:18 Pacific Daylight Time

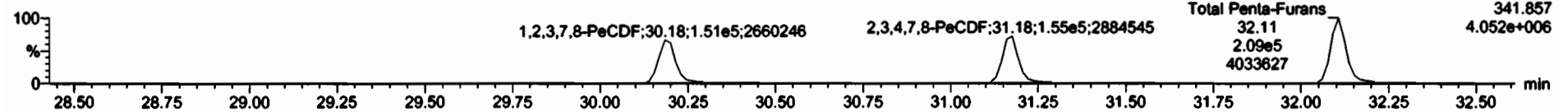
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1,2,3,7,8-PeCDF

200605R2_2

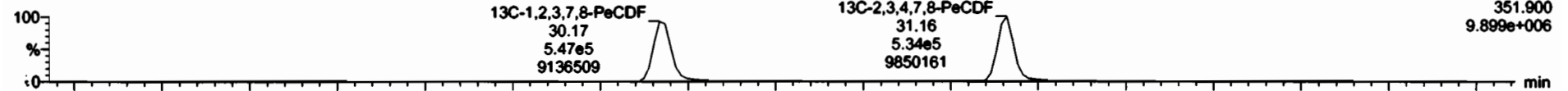


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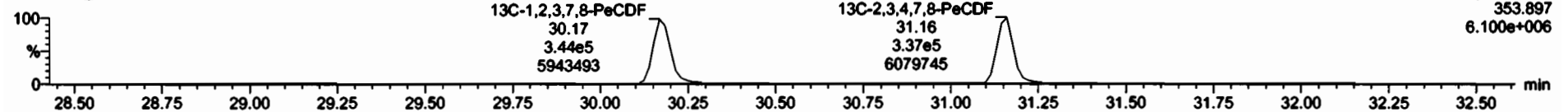


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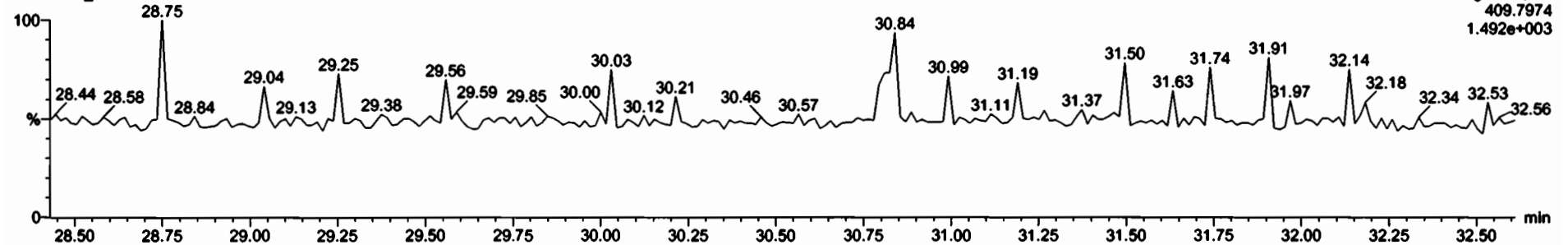


200605R2_2



DPE2

200605R2_2

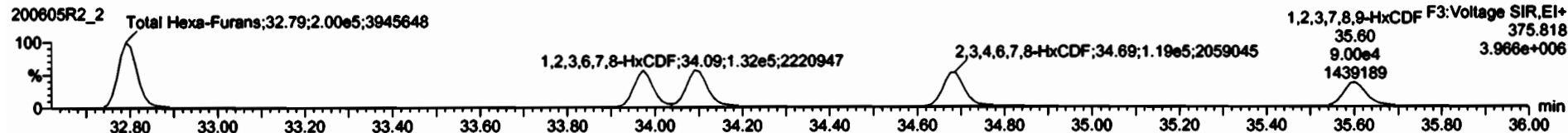
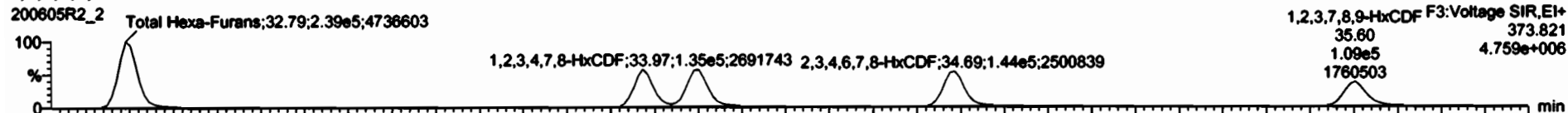


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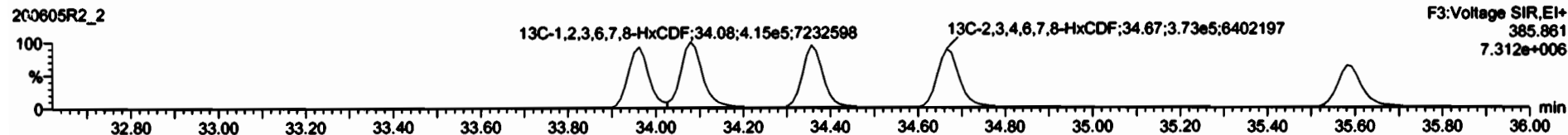
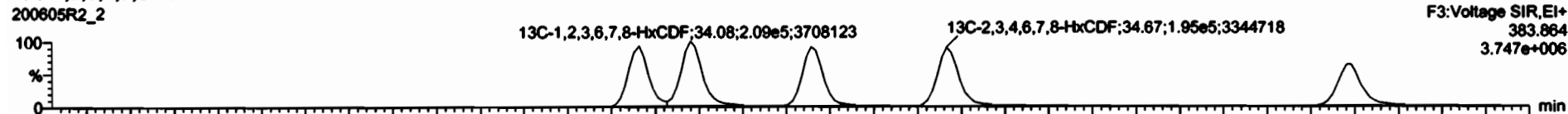
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Printed: Sunday, June 07, 2020 07:59:18 Pacific Daylight Time

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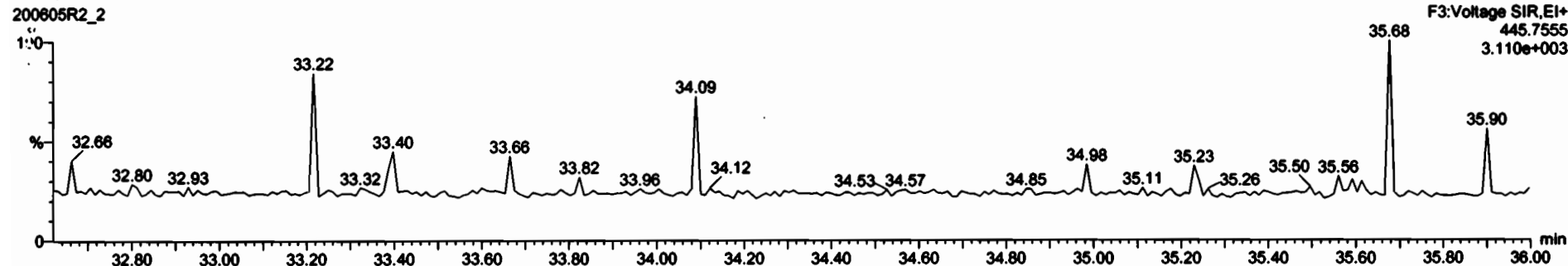
1,2,3,4,7,8-HxCDF



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



DPE3



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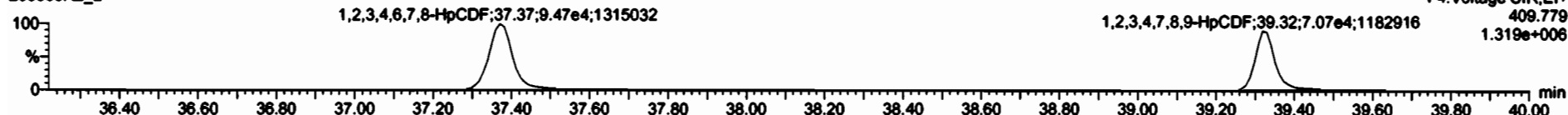
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1,2,3,4,6,7,8-HpCDF

200605R2_2



200605R2_2

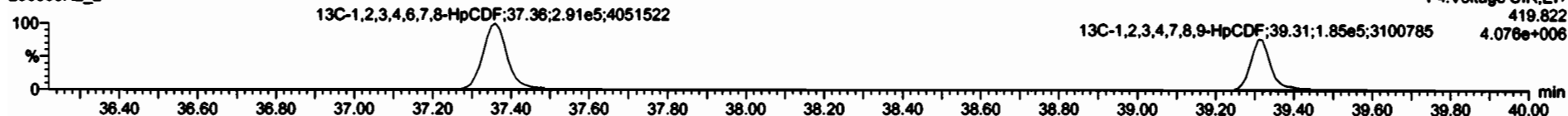


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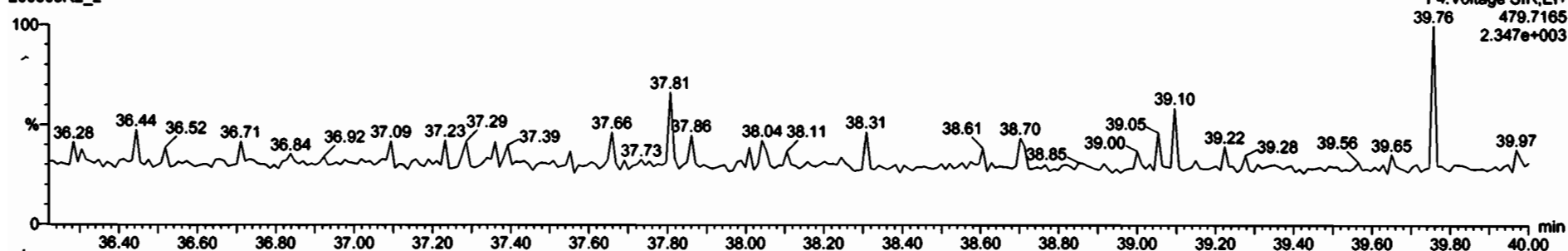


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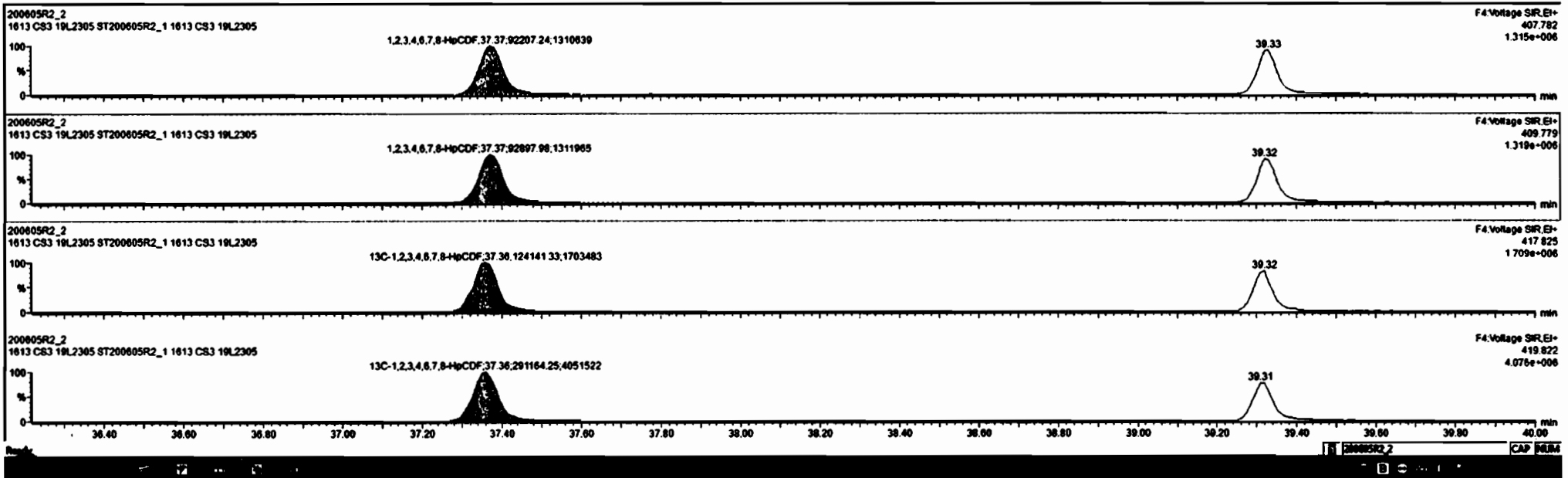


D:PE4

200605R2_2



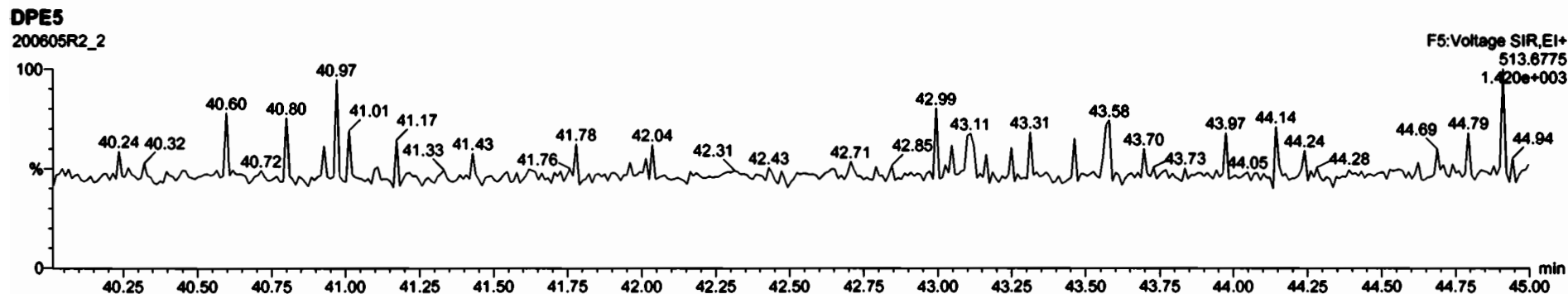
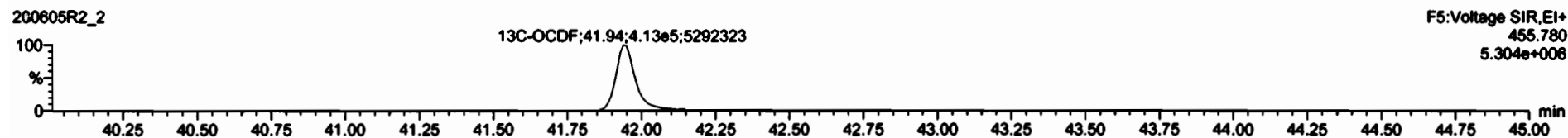
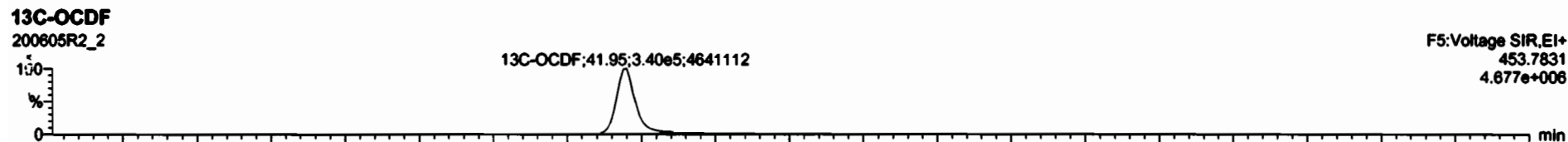
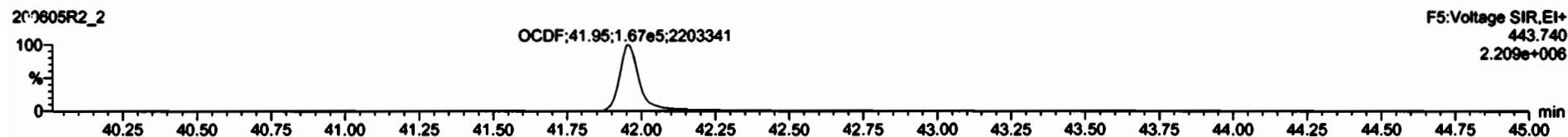
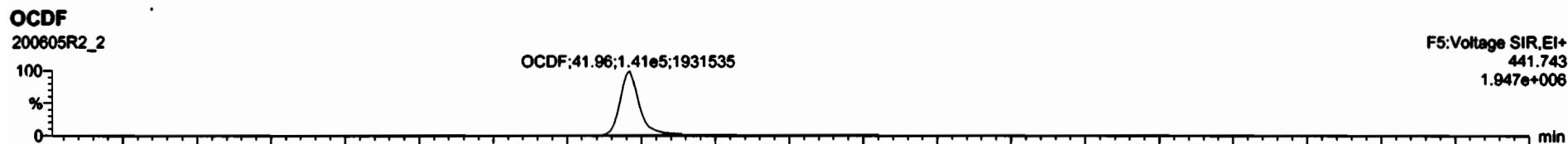
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1,2,3,7,8-PeCDD	2.83e5	0.62	NO	0.91	1.000	31.40	1.000	47.7	95.5	0.150	47.7
1,2,3,4,7,8-HxCDD	2.11e5	1.22	NO	1.93	1.000	34.85	1.000	48.6	97.2	0.200	48.0
1,2,3,6,7,8-HxCDD	2.33e5	1.22	NO	0.89	1.000	34.85	1.000	49.0	97.9	0.212	48.0
1,2,3,7,8-HxCDD	2.95e5	1.25	NO	0.89	1.000	36.24	1.001	48.4	96.8	0.252	48.4
1,2,3,4,6,7,8-HpCDD	1.98e6	1.02	NO	0.88	1.000	38.78	1.000	48.3	96.7	0.310	48.3
OCDD	3.13e5	0.88	NO	0.91	1.000	41.70	1.000	101	101	0.213	101
2,3,7,8-TCDF	7.70e4	0.74	NO	0.75	1.000	25.63	1.001	9.56	95.5	0.0550	9.56
1,2,3,7,8-PeCDF	3.87e5	1.57	NO	0.80	1.000	30.18	1.001	48.7	97.4	0.144	48.7
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1,2,3,6,7,8-HxCDF	2.95e5	1.16	NO	0.80	1.000	34.10	1.001	51.3	103	0.201	51.3
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OCDF	3.97e5	0.84	NO	0.81	1.000	41.80	1.000	101	101	0.204	101
13C-2,3,7,8-TCDD	8.31e5	0.78	NO	1.16	1.000	26.50	1.025	102	102	0.185	
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Last Altered: Sunday, June 07, 2020 07:59:02 Pacific Daylight Time
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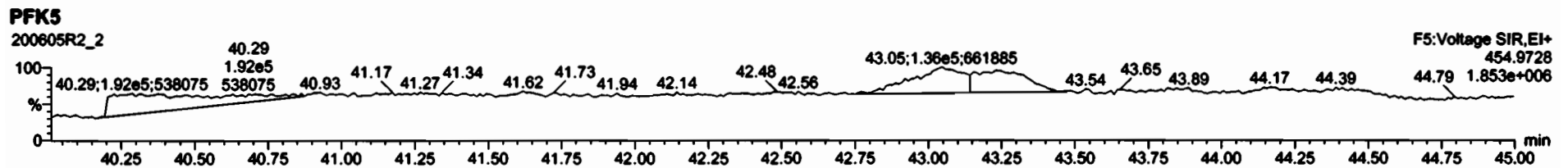
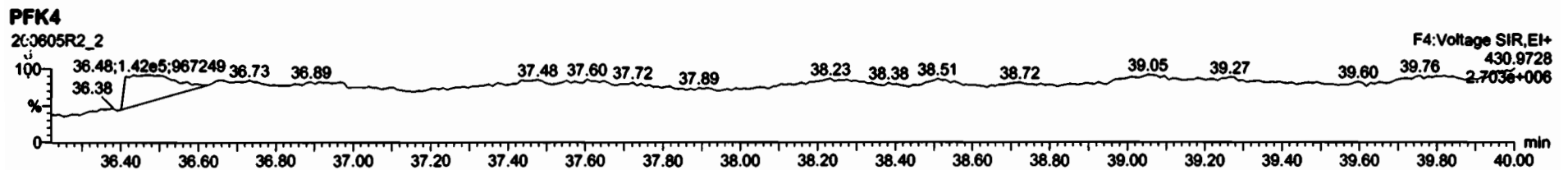
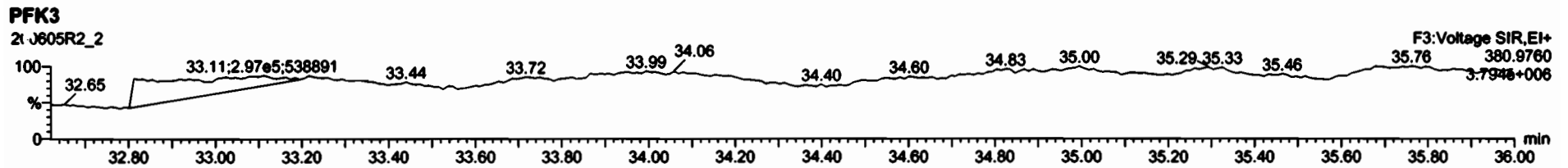
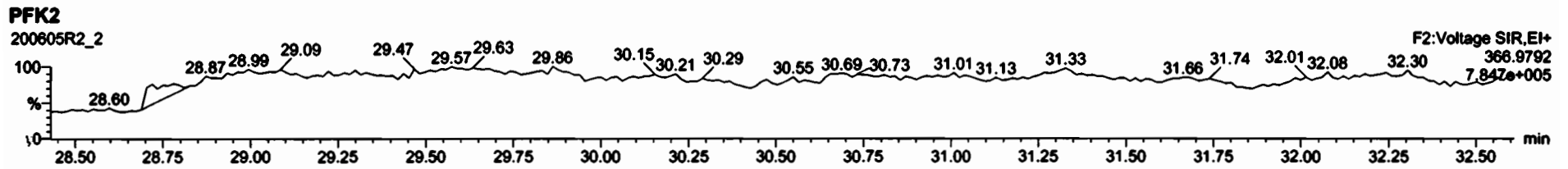
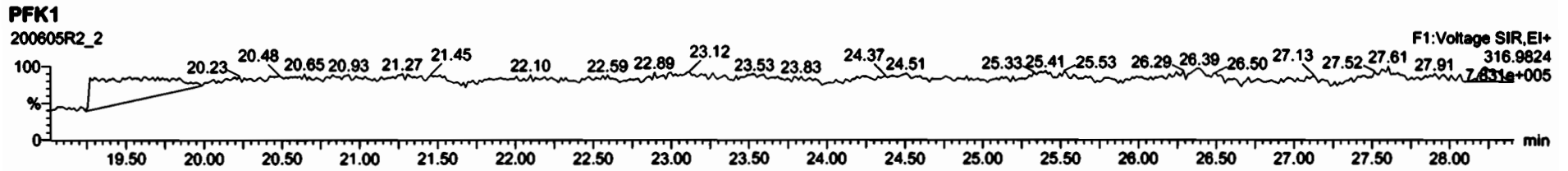
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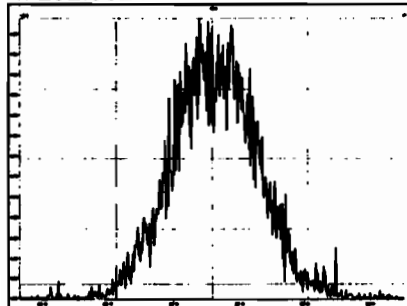
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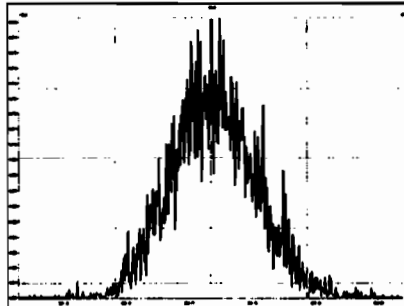


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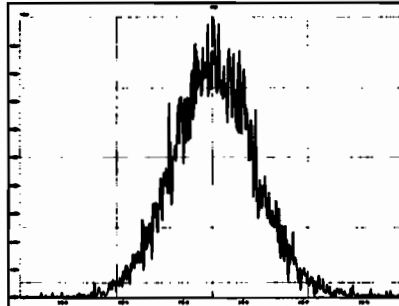
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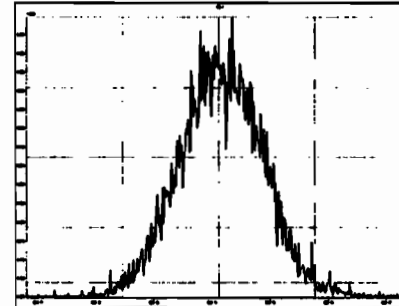
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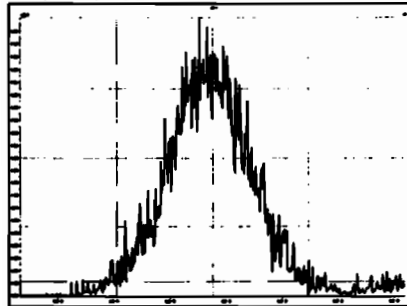
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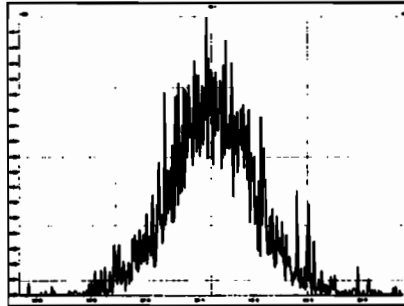
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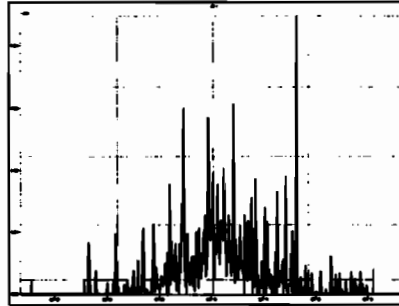
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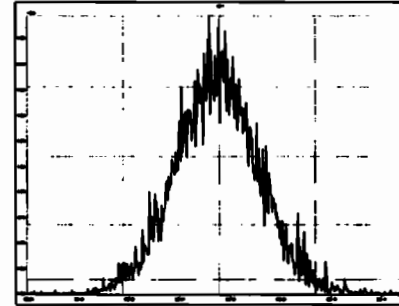
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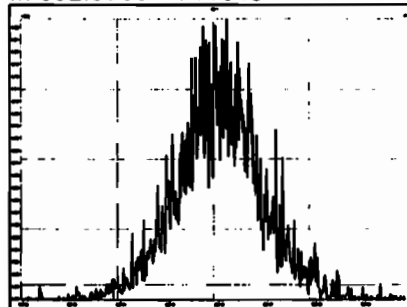
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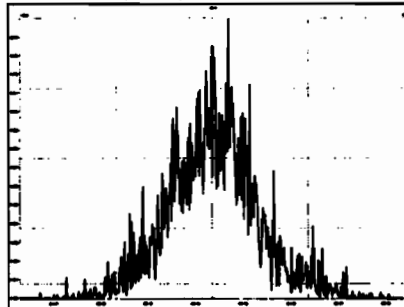
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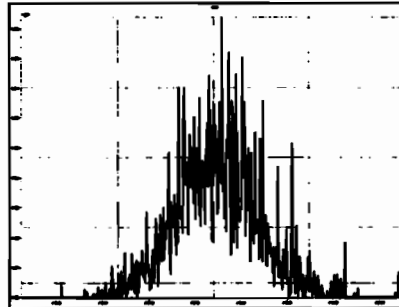
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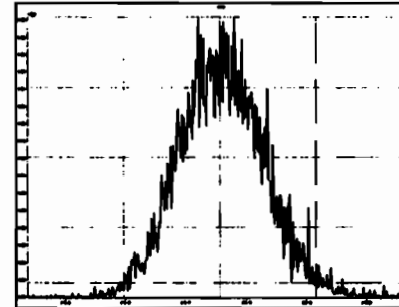
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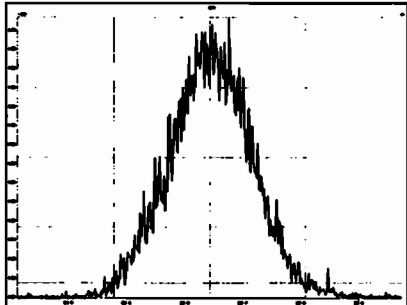


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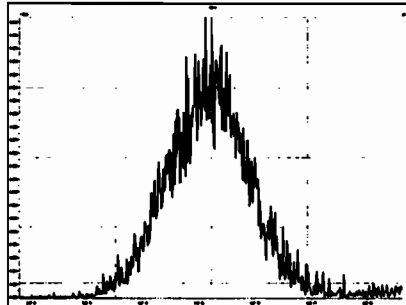


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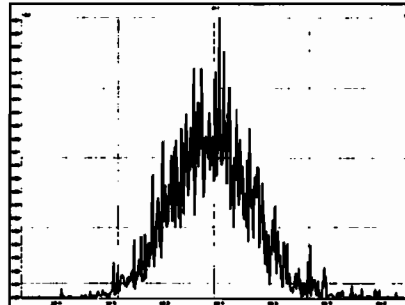
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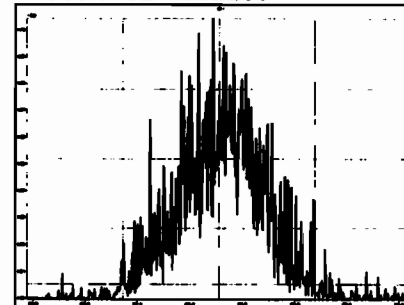
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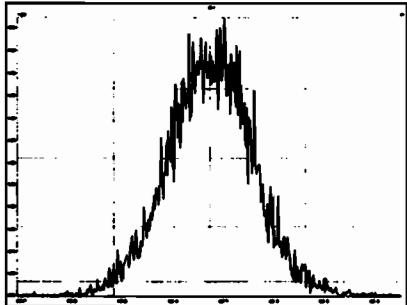
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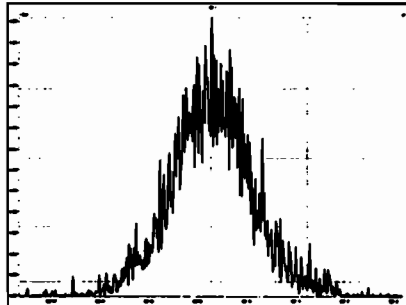
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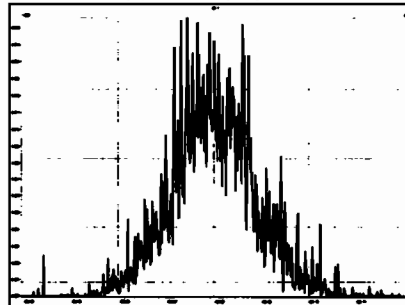
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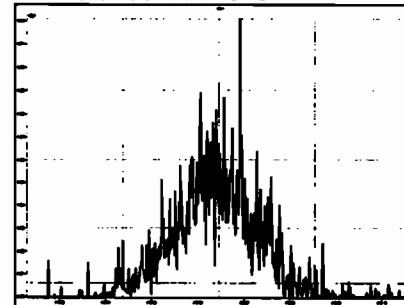
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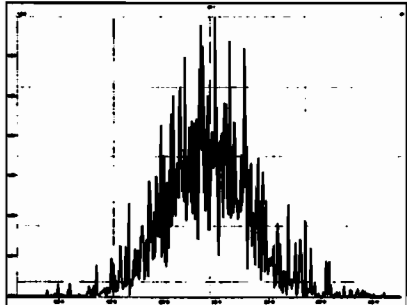
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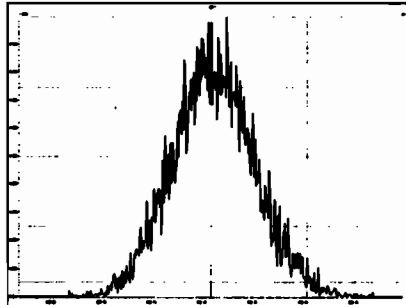
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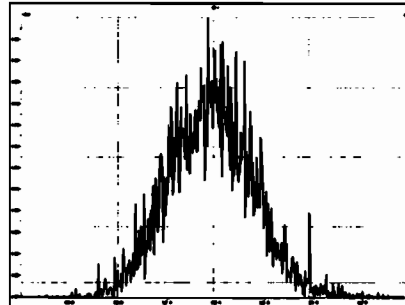
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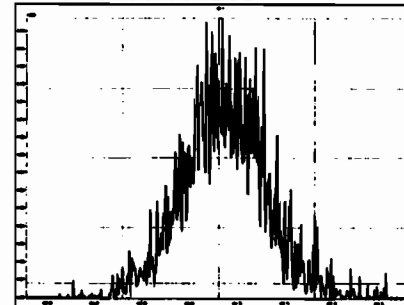
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M 392.9760 R 11598

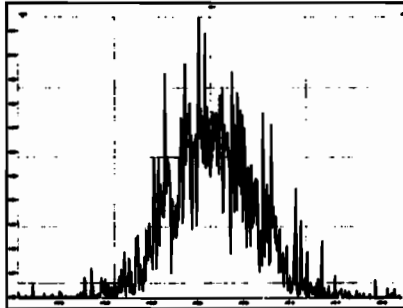


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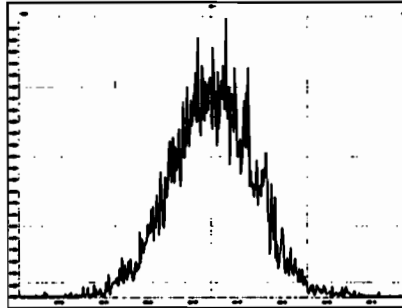


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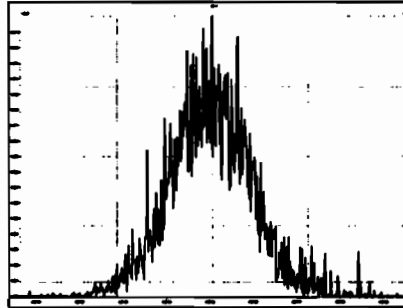
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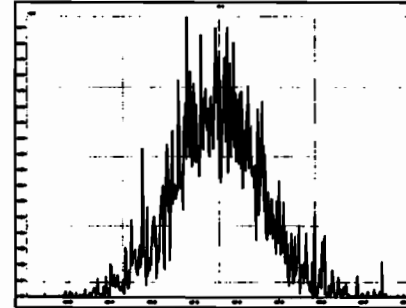
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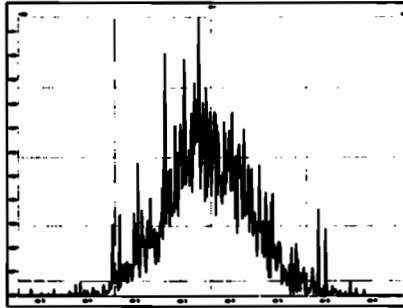
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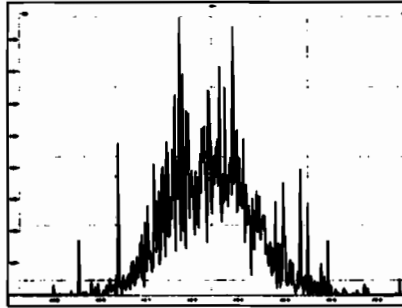
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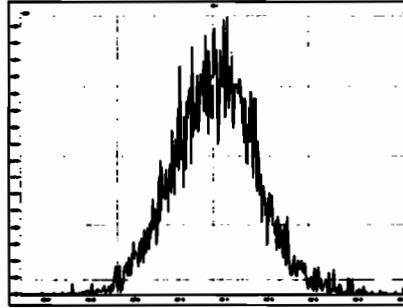
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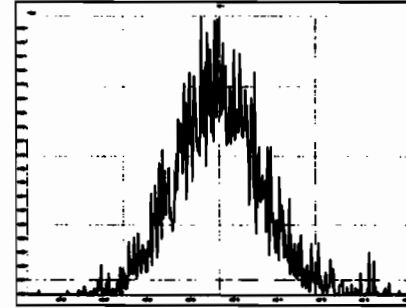
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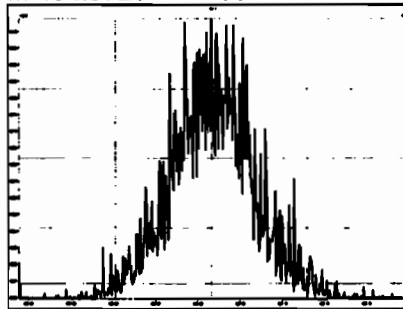
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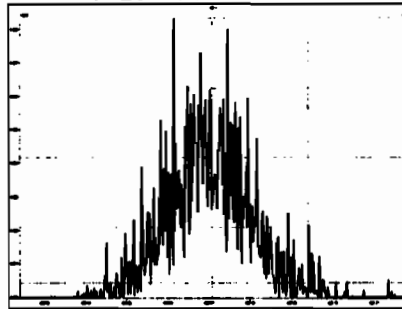
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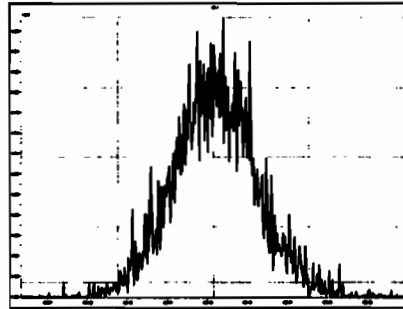
M 454.9728 R 11501



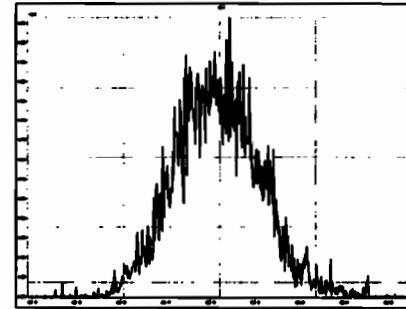
M 466.9728 R 13402



M 480.9696 R 11261

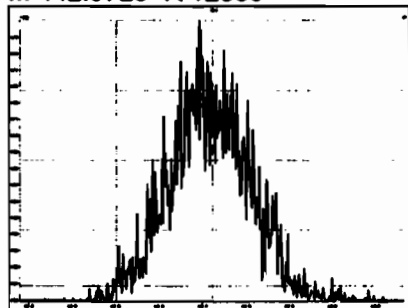


M 430.9728 R 10616

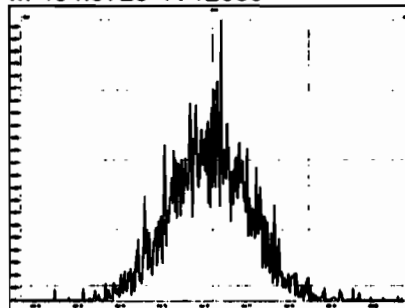


Printed: Saturday, June 06, 2020 11:37:26 Pacific Daylight Time

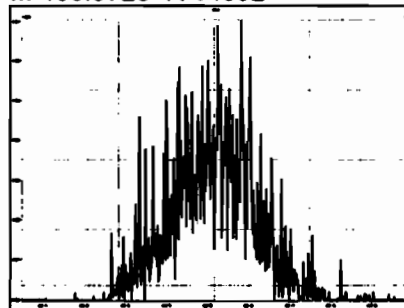
M 442.9728 R 12380



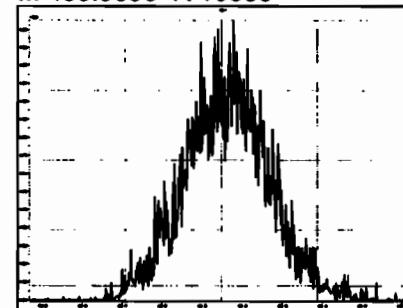
M 454.9728 R 12689



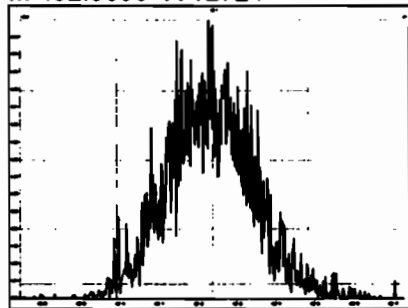
M 466.9728 R 14302



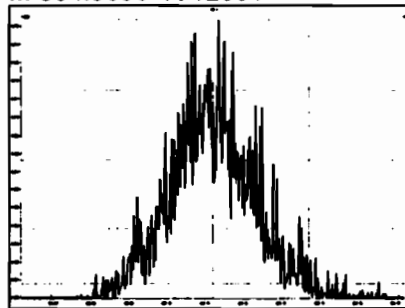
M 480.9696 R 10585



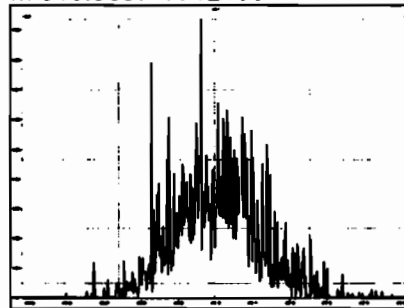
M 492.9696 R 12724



M 504.9696 R 12351



M 516.9697 R 12438



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

II
Beg. Calibration ID: ST200702D1-1

Reviewed By: C7 07/03/2020
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"/>
TGDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input type="checkbox"/> UA	<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 type="checkbox"/> DB	<input type="checkbox"/>
<u>Run Log:</u>		
- Correct instrument listed?	<input type="checkbox"/>	<input type="checkbox"/> Y
- Samples within 12 hour clock?	Y	N
- Bottle position verified?	<input type="checkbox"/>	<input type="checkbox"/> DB

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

Comments:

Dataset: U:\VG7.PRO\Results\200702D1\200702D1_2.qld

Last Altered: Friday, July 03, 2020 09:20:39 Pacific Daylight Time
Printed: Friday, July 03, 2020 09:21:43 Pacific Daylight Time

DB 7/3/20 CT 07/03/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 03 Jul 2020 09:08:31
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200702D1_2, Date: 02-Jul-2020, Time: 16:09:26, ID: ST200702D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	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	1.93e4	0.77	NO	0.982	1.000	16.968	16.96	1.000	1.001	8.5574	85.6 <i>84-120</i>	0.120	8.56
2	2 13C-2,3,7,8-TCDF	2.30e5	0.77	NO	1.08	1.000	16.954	16.95	1.133	1.136	103.62	104 <i>71-140</i>	0.330	
3	3 13C-1,2,3,4-TCDF	2.05e5	0.78	NO	1.00	1.000	14.920	14.92	1.000	1.000	100.00	100	0.357	

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Friday, July 03, 2020 10:34:27 Pacific Daylight Time

Printed: Friday, July 03, 2020 10:34:42 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 03 Jul 2020 09:08:31

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

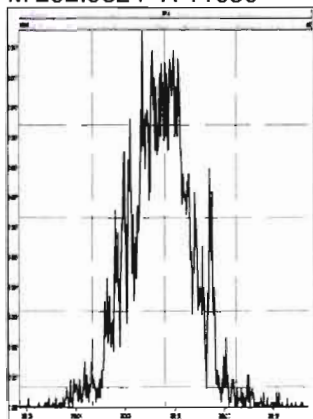
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200702D1_1	CP200702D1-1 DB-225 CPSM	02-Jul-20	15:39:16
2	200702D1_2	ST200702D1-1 1613 CS3 19L2305	02-Jul-20	16:09:26
3	200702D1_3	SOLVENT BLANK	02-Jul-20	16:41:10
4	200702D1_4	2001194-02RE1 T4-PDI2019-SC24-190529-0...	02-Jul-20	17:12:55
5	200702D1_5	2001194-03RE1 T4-PDI2019-SC25-190529-0...	02-Jul-20	17:44:36
6	200702D1_6	2001194-04RE1 T4-PDI2019-SC25-190529-0...	02-Jul-20	18:16:18
7	200702D1_7	BOF0281-DUP1RE1 Duplicate	02-Jul-20	18:48:01
8	200702D1_8	2001194-01RE2 T4-PDI2019-SC24-190529-0...	02-Jul-20	19:19:44
9	200702D1_9	2001194-05RE2 T4-PDI2019-SC26-190530-0...	02-Jul-20	19:51:26
10	200702D1_10	2001036-06RE2 PDI-053SC-B-00-02-200510 ...	02-Jul-20	20:23:09
11	200702D1_11	2000964-02RE1 PDI-148SC-A-00-01-200427 ...	02-Jul-20	20:54:51
12	200702D1_12	2000964-03RE1 PDI-148SC-A-01-02-200427 ...	02-Jul-20	21:26:33
13	200702D1_13	2000997-08RE1 PDI-061SC-B-00-02-200428 ...	02-Jul-20	21:58:14
14	200702D1_14	2001033-02RE1 PDI-087SC-B-02-05-200509 ...	02-Jul-20	22:29:55
15	200702D1_15	2001033-04RE1 PDI-089SC-B-00-02-200509 ...	02-Jul-20	23:01:37

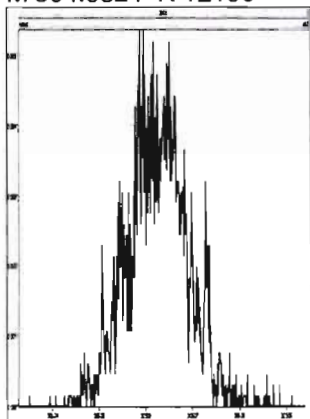
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, July 02, 2020 15:38:17 Pacific Daylight Time

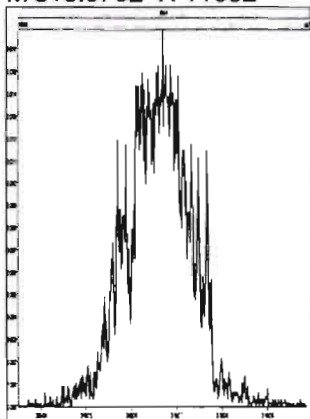
M 292.9824 R 11959



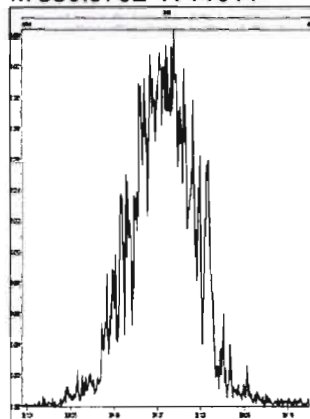
M 304.9824 R 12190



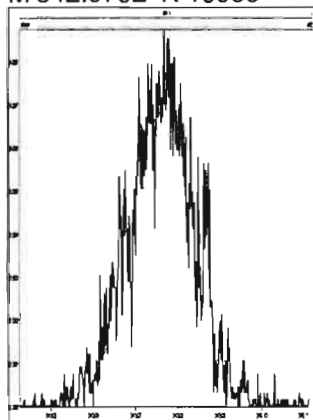
M 318.9792 R 11682



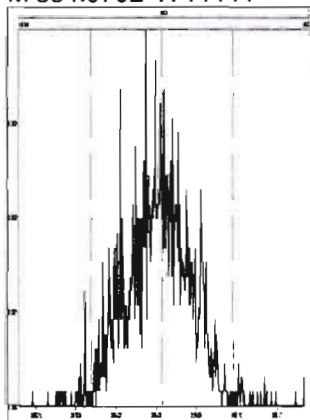
M 330.9792 R 11011



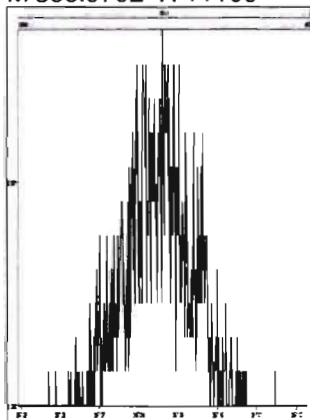
M 342.9792 R 10966



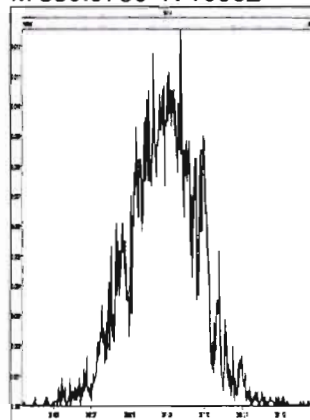
M 354.9792 R 11111

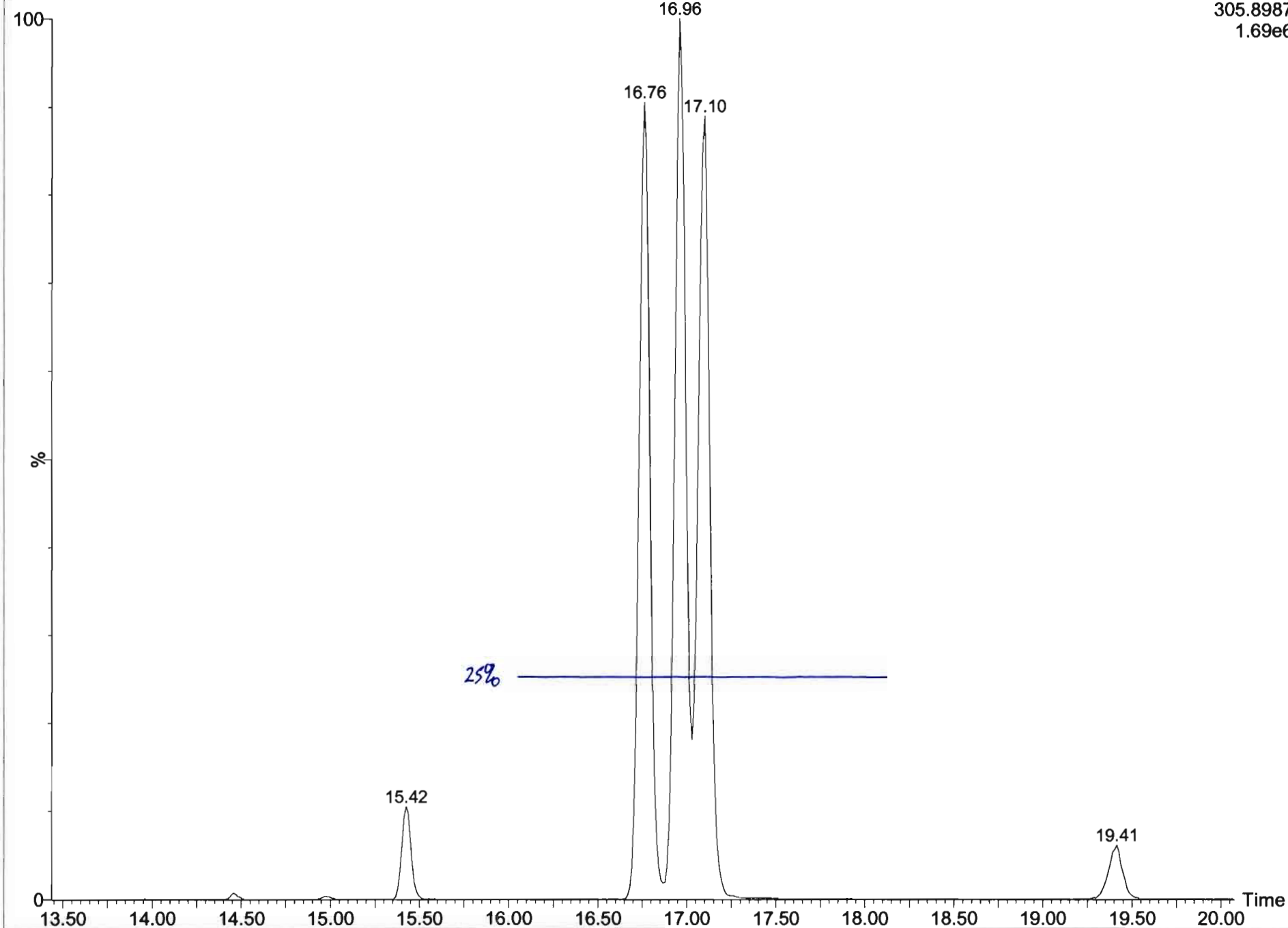


M 366.9792 R 11109



M 380.9760 R 10962





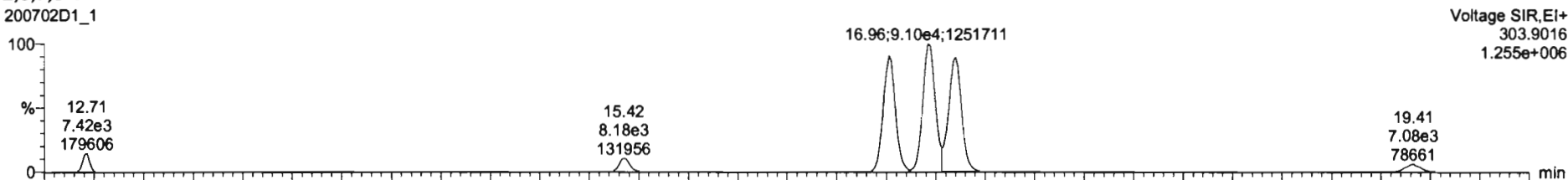
Dataset: U:\VG7.PRO\Results\200702D1\200702D1_1.qld

Last Altered: Friday, July 03, 2020 09:19:25 Pacific Daylight Time
Printed: Friday, July 03, 2020 09:20:33 Pacific Daylight Time

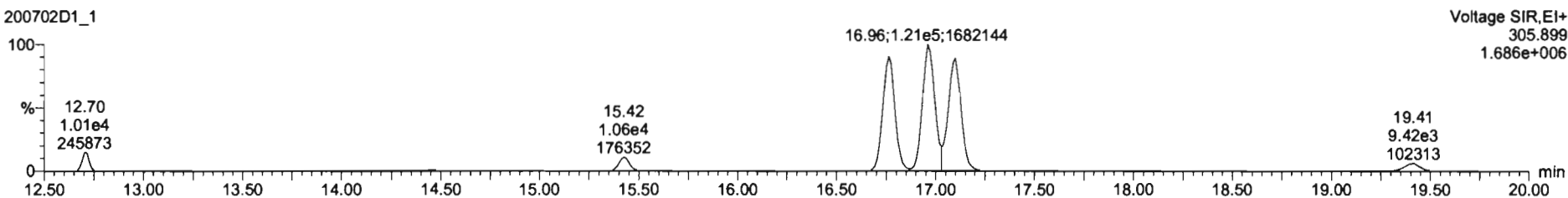
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 03 Jul 2020 09:08:31
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200702D1_1, Date: 02-Jul-2020, Time: 15:39:16, ID: CP200702D1-1 DB-225 CPSM, Description: DB-225 CPSM

2,3,7,8-TCDF
200702D1_1

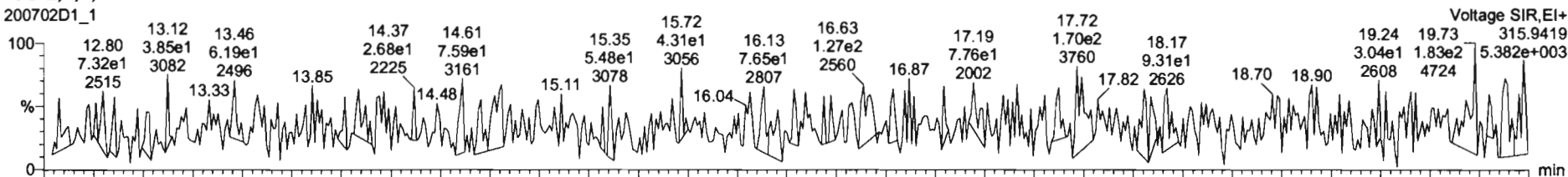


200702D1_1

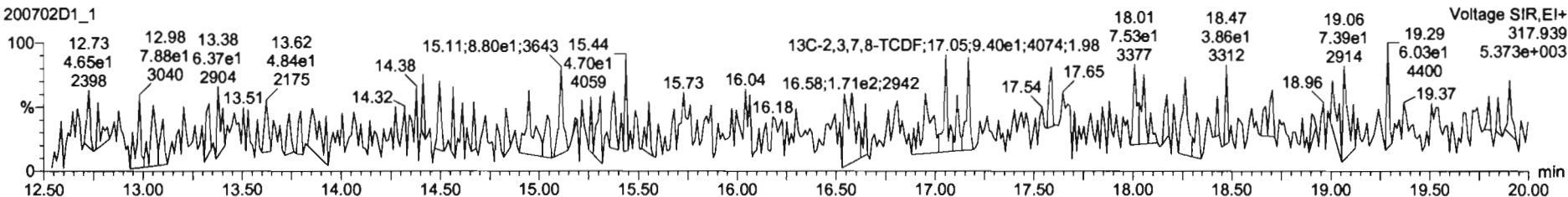


13C-2,3,7,8-TCDF

200702D1_1



200702D1_1

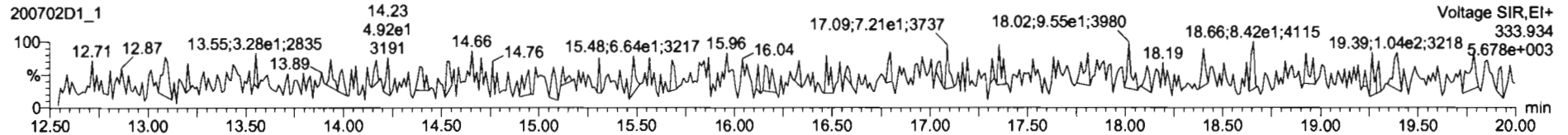
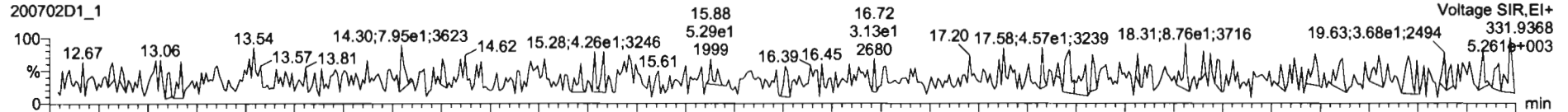


Dataset: U:\VG7.PRO\Results\200702D1\200702D1_1.qld

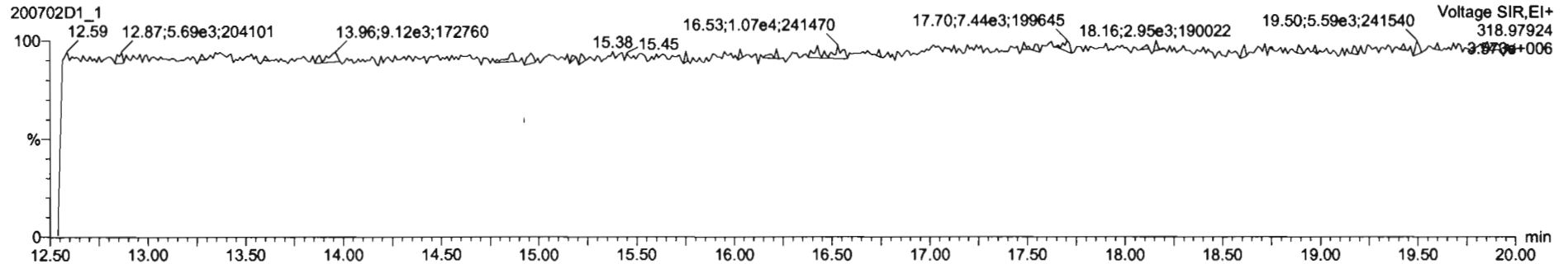
Last Altered: Friday, July 03, 2020 09:19:25 Pacific Daylight Time
Printed: Friday, July 03, 2020 09:20:33 Pacific Daylight Time

Name: 200702D1_1, Date: 02-Jul-2020, Time: 15:39:16, ID: CP200702D1-1 DB-225 CPSM, Description: DB-225 CPSM

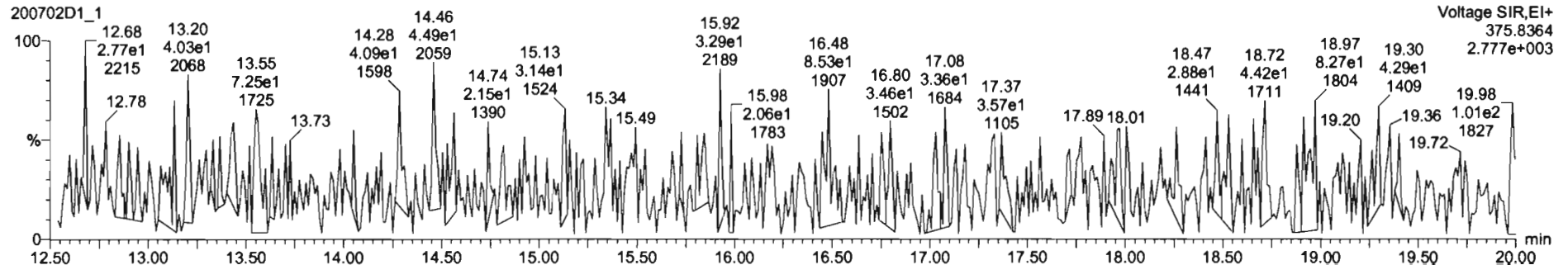
13C-1,2,3,4-TCDD



PFK1



DPE1



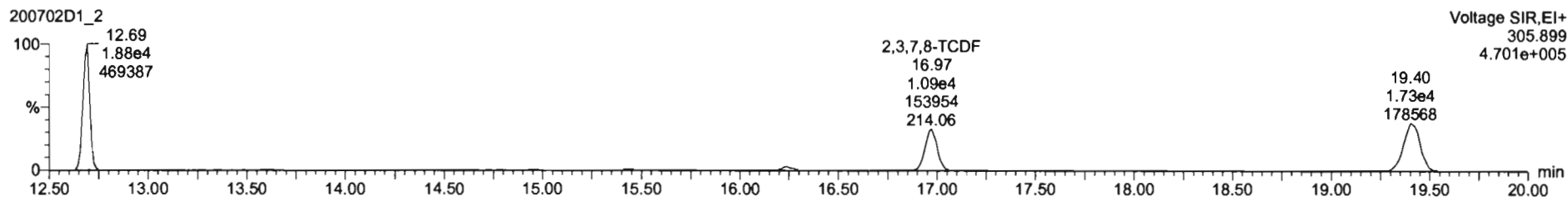
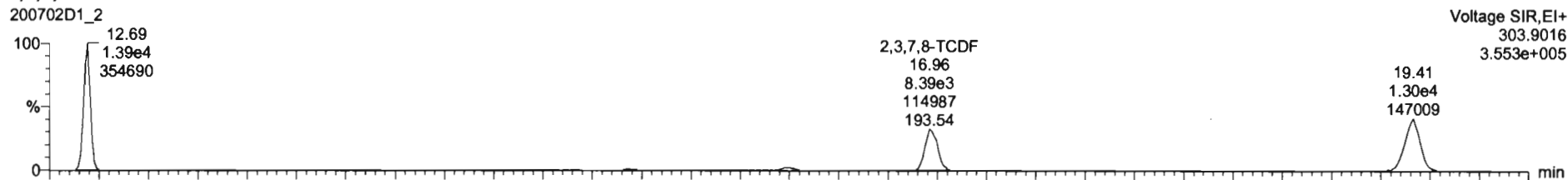
Dataset: U:\VG7.PRO\Results\200702D1\200702D1_2.qld

Last Altered: Friday, July 03, 2020 09:20:39 Pacific Daylight Time
Printed: Friday, July 03, 2020 09:22:00 Pacific Daylight Time

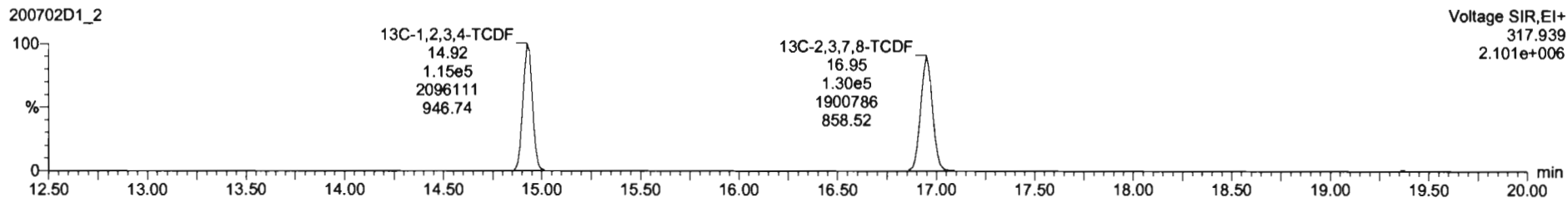
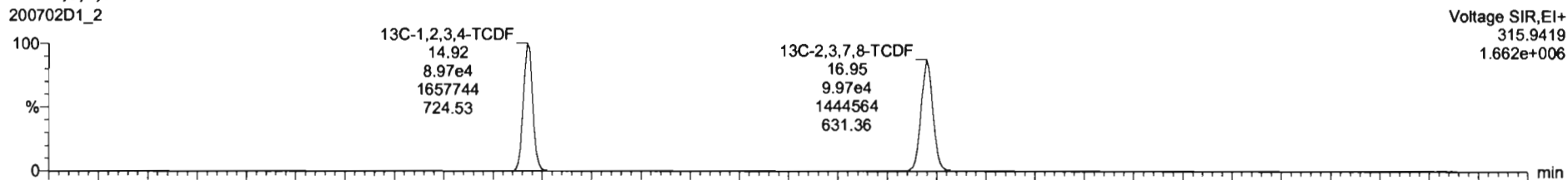
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 03 Jul 2020 09:08:31
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200702D1_2, Date: 02-Jul-2020, Time: 16:09:26, ID: ST200702D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF



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



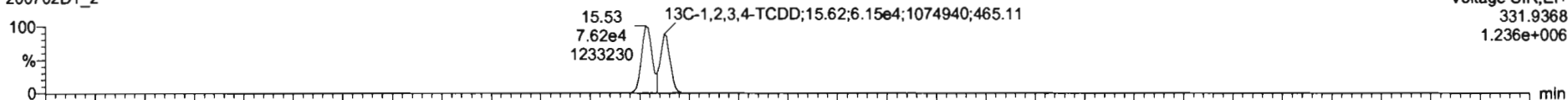
Dataset: U:\VG7.PRO\Results\200702D1\200702D1_2.qld

Last Altered: Friday, July 03, 2020 09:20:39 Pacific Daylight Time
Printed: Friday, July 03, 2020 09:22:00 Pacific Daylight Time

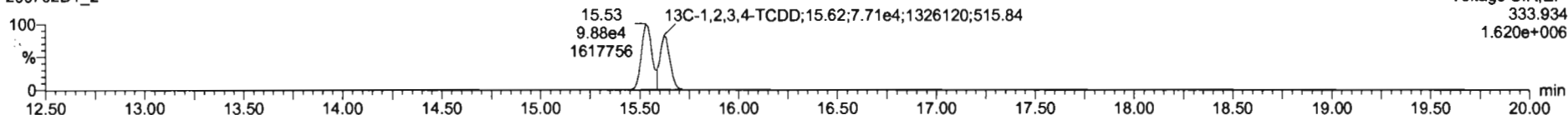
Name: 200702D1_2, Date: 02-Jul-2020, Time: 16:09:26, ID: ST200702D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200702D1_2

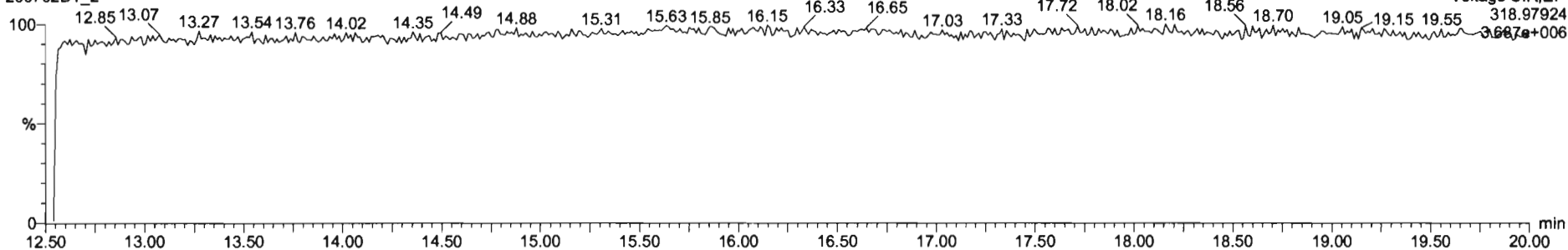


200702D1_2



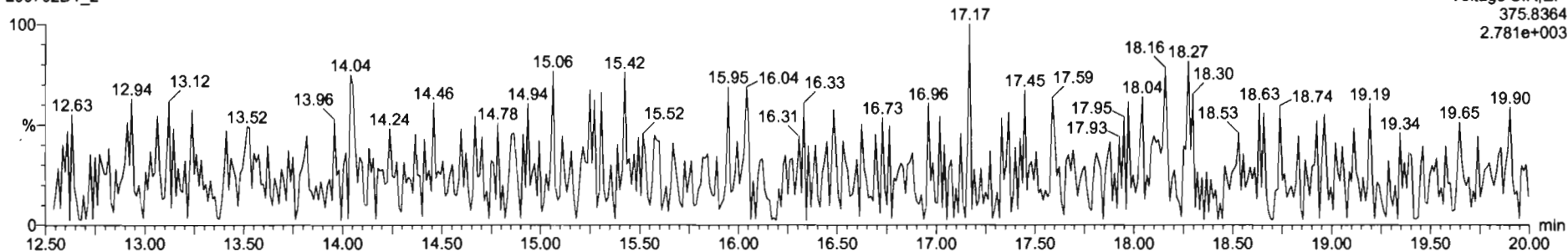
PFK1

200702D1_2



DPE1

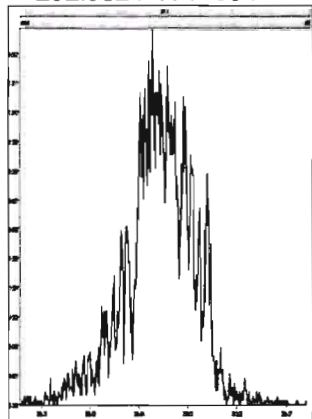
200702D1_2



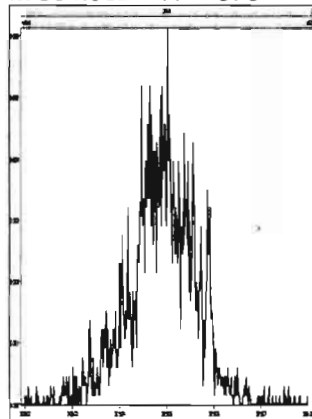
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, July 02, 2020 23:32:40 Pacific Daylight Time

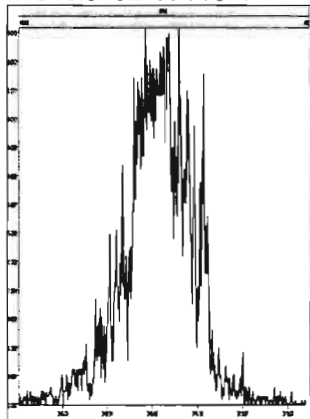
M 292.9824 R 11064



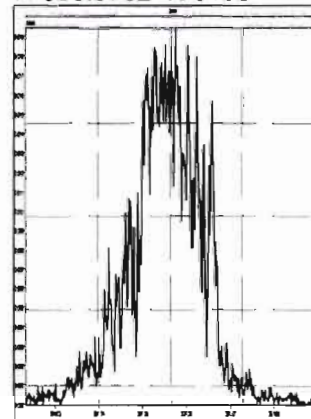
M 304.9824 R 11575



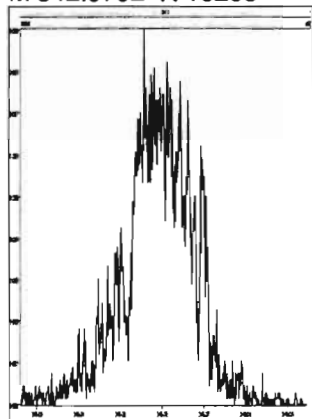
M 318.9792 R 11627



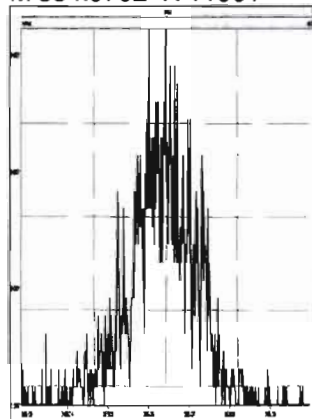
M 330.9792 R 9193



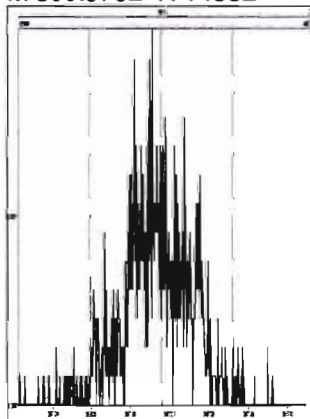
M 342.9792 R 10205



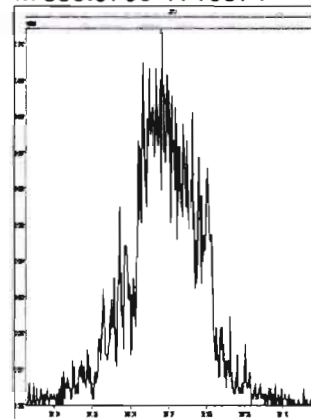
M 354.9792 R 11961



M 366.9792 R 14532



M 380.9760 R 10374



INITIAL CALIBRATION

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time
Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

GRB 05/29/2020

CI 05/29/2020

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

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

Response Factor: 0.88831
RRF SD: 0.0677802, Relative SD: 7.63025
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	200528R2_1	0.250	0.68	NO	26.54	1.000	2.70e3	1.43e6	0.213	-14.8	0.757	bb
2	200528R2_2	0.500	0.78	NO	26.57	1.001	5.69e3	1.29e6	0.497	-0.6	0.883	bb
3	200528R2_3	2.00	0.80	NO	26.57	1.001	2.40e4	1.31e6	2.06	3.1	0.916	bb
4	200528R2_4	40.0	0.78	NO	26.56	1.001	5.50e5	1.50e6	41.2	3.0	0.915	bb
5	200528R2_5	300	0.78	NO	26.59	1.001	4.32e6	1.52e6	321	6.9	0.949	bb
6	200528R2_6	10.0	0.81	NO	26.59	1.001	1.06e5	1.16e6	10.2	2.4	0.910	dd

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

Response Factor: 0.908065
RRF SD: 0.0455724, Relative SD: 5.01862
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	200528R2_1	1.25	0.66	NO	31.50	1.000	1.03e4	1.00e6	1.12	-10.0	0.817	bb
2	200528R2_2	2.50	0.64	NO	31.51	1.000	2.12e4	9.36e5	2.50	-0.1	0.908	bb
3	200528R2_3	10.0	0.63	NO	31.51	1.000	8.60e4	9.29e5	10.2	1.9	0.926	bb
4	200528R2_4	200	0.63	NO	31.51	1.000	2.06e6	1.11e6	205	2.4	0.930	bb
5	200528R2_5	1500	0.63	NO	31.51	1.000	1.69e7	1.21e6	1550	3.0	0.935	bb
6	200528R2_6	50.0	0.62	NO	31.53	1.001	3.95e5	8.48e5	51.3	2.7	0.932	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

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

Response Factor: 1.03343

RRF SD: 0.0545572, Relative SD: 5.27925

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	200528R2_1	1.25	1.27	NO	34.86	1.000	8.03e3	6.95e5	1.12	-10.6	0.924	MM
2	200528R2_2	2.50	1.27	NO	34.88	1.000	1.69e4	6.46e5	2.53	1.2	1.05	bd
3	200528R2_3	10.0	1.24	NO	34.88	1.000	6.94e4	6.61e5	10.2	1.6	1.05	bd
4	200528R2_4	200	1.23	NO	34.88	1.001	1.67e6	7.89e5	204	2.1	1.06	MM
5	200528R2_5	1500	1.23	NO	34.88	1.000	1.47e7	9.34e5	1520	1.5	1.05	bd
6	200528R2_6	50.0	1.23	NO	34.89	1.000	3.25e5	6.04e5	52.1	4.1	1.08	bd

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

Response Factor: 0.892293

RRF SD: 0.0561127, Relative SD: 6.28859

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	200528R2_1	1.25	1.23	NO	34.97	1.001	9.27e3	9.27e5	1.12	-10.3	0.800	db
2	200528R2_2	2.50	1.25	NO	34.99	1.001	1.90e4	8.61e5	2.47	-1.1	0.883	db
3	200528R2_3	10.0	1.24	NO	34.99	1.000	8.01e4	8.39e5	10.7	7.0	0.954	db
4	200528R2_4	200	1.22	NO	34.99	1.001	1.92e6	1.03e6	209	4.3	0.931	MM
5	200528R2_5	1500	1.23	NO	34.99	1.000	1.61e7	1.17e6	1550	3.5	0.923	db
6	200528R2_6	50.0	1.24	NO	35.00	1.001	3.51e5	8.15e5	48.3	-3.4	0.862	db

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

Response Factor: 0.886936

RRF SD: 0.0582559, Relative SD: 6.56822

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	200528R2_1	1.25	1.20	NO	35.25	1.000	8.14e3	8.33e5	1.10	-11.9	0.782	bb
2	200528R2_2	2.50	1.21	NO	35.27	1.001	1.62e4	7.48e5	2.44	-2.3	0.866	bb

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	10.0	1.26	NO	35.26	1.000	7.01e4	7.53e5	10.5	4.9	0.931	bb
4	200528R2_4	200	1.20	NO	35.26	1.000	1.70e6	9.12e5	210	4.9	0.931	bb
5	200528R2_5	1500	1.22	NO	35.27	1.000	1.47e7	1.06e6	1570	4.5	0.927	bb
6	200528R2_6	50.0	1.24	NO	35.27	1.000	3.12e5	7.05e5	49.9	-0.2	0.886	bb

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

Response Factor: 0.863903
 RRF SD: 0.0694586, Relative SD: 8.04009
 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	200528R2_1	1.25	0.99	NO	38.78	1.000	6.10e3	6.48e5	1.09	-12.8	0.753	MM
2	200528R2_2	2.50	1.05	NO	38.81	1.001	1.21e4	6.01e5	2.33	-6.7	0.806	bb
3	200528R2_3	10.0	1.03	NO	38.80	1.000	4.99e4	5.57e5	10.4	3.7	0.896	bd
4	200528R2_4	200	1.02	NO	38.80	1.000	1.25e6	6.86e5	211	5.5	0.911	bb
5	200528R2_5	1500	1.01	NO	38.81	1.000	1.15e7	8.18e5	1620	8.0	0.933	bb
6	200528R2_6	50.0	1.03	NO	38.81	1.000	2.29e5	5.18e5	51.2	2.4	0.884	MM

Compound name: OCDD

Response Factor: 0.913637
 RRF SD: 0.0452527, Relative SD: 4.95303
 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	200528R2_1	2.50	0.85	NO	41.76	1.000	1.23e4	1.18e6	2.27	-9.1	0.831	bd
2	200528R2_2	5.00	0.83	NO	41.77	1.000	2.39e4	1.05e6	4.97	-0.6	0.908	bd
3	200528R2_3	20.0	0.89	NO	41.78	1.000	9.89e4	1.03e6	21.0	4.9	0.959	MM
4	200528R2_4	400	0.87	NO	41.77	1.000	2.45e6	1.35e6	397	-0.6	0.908	MM
5	200528R2_5	3000	0.84	NO	41.79	1.000	2.37e7	1.67e6	3100	3.2	0.943	MM
6	200528R2_6	100	0.88	NO	41.78	1.000	4.53e5	9.71e5	102	2.2	0.933	MM

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

Response Factor: 0.75098

RRF SD: 0.0524401, Relative SD: 6.98288

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	200528R2_1	0.250	0.73	NO	25.67	1.001	3.27e3	1.95e6	0.223	-10.9	0.669	bb
2	200528R2_2	0.500	0.75	NO	25.67	1.001	6.53e3	1.78e6	0.488	-2.3	0.733	bb
3	200528R2_3	2.00	0.74	NO	25.68	1.001	2.67e4	1.80e6	1.97	-1.4	0.740	bb
4	200528R2_4	40.0	0.76	NO	25.68	1.001	6.52e5	2.04e6	42.6	6.5	0.800	bb
5	200528R2_5	300	0.75	NO	25.69	1.001	5.00e6	2.04e6	326	8.6	0.816	bb
6	200528R2_6	10.0	0.74	NO	25.69	1.001	1.19e5	1.59e6	9.96	-0.4	0.748	bb

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

Response Factor: 0.892531

RRF SD: 0.0599961, Relative SD: 6.72201

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	200528R2_1	1.25	1.61	NO	30.20	1.000	1.46e4	1.50e6	1.09	-12.9	0.777	bb
2	200528R2_2	2.50	1.55	NO	30.23	1.000	3.08e4	1.37e6	2.52	0.8	0.900	bd
3	200528R2_3	10.0	1.55	NO	30.23	1.000	1.31e5	1.38e6	10.7	7.0	0.955	bb
4	200528R2_4	200	1.54	NO	30.23	1.000	2.94e6	1.63e6	203	1.4	0.905	bb
5	200528R2_5	1500	1.54	NO	30.23	1.000	2.38e7	1.75e6	1520	1.3	0.904	bb
6	200528R2_6	50.0	1.57	NO	30.25	1.000	5.72e5	1.25e6	51.2	2.5	0.915	bb

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

Response Factor: 0.934777

RRF SD: 0.0507076, Relative SD: 5.42456

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	200528R2_1	1.25	1.56	NO	31.19	1.000	1.48e4	1.42e6	1.12	-10.8	0.834	bb
2	200528R2_2	2.50	1.55	NO	31.21	1.000	3.19e4	1.35e6	2.52	0.8	0.943	bd

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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	200528R2_3	10.0	1.55	NO	31.21	1.000	1.34e5	1.38e6	10.4	3.7	0.969	bb
4	200528R2_4	200	1.54	NO	31.21	1.000	3.00e6	1.57e6	204	2.2	0.955	bb
5	200528R2_5	1500	1.53	NO	31.21	1.000	2.45e7	1.69e6	1550	3.4	0.967	bb
6	200528R2_6	50.0	1.57	NO	31.22	1.000	5.81e5	1.24e6	50.3	0.7	0.941	bb

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

Response Factor: 0.884459
 RRF SD: 0.0674086, Relative SD: 7.62145
 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	200528R2_1	1.25	1.25	NO	33.99	1.001	8.98e3	9.42e5	1.08	-13.8	0.762	bd
2	200528R2_2	2.50	1.19	NO	33.99	1.000	1.81e4	8.49e5	2.41	-3.7	0.852	bd
3	200528R2_3	10.0	1.22	NO	34.01	1.001	7.91e4	8.47e5	10.6	5.6	0.934	bd
4	200528R2_4	200	1.18	NO	33.99	1.000	1.87e6	1.02e6	208	3.9	0.919	bd
5	200528R2_5	1500	1.19	NO	34.01	1.000	1.61e7	1.15e6	1590	5.8	0.936	bd
6	200528R2_6	50.0	1.21	NO	34.01	1.000	3.56e5	7.87e5	51.1	2.2	0.904	bd

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

Response Factor: 0.889174
 RRF SD: 0.0479606, Relative SD: 5.39384
 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	200528R2_1	1.25	1.16	NO	34.11	1.001	1.07e4	1.07e6	1.12	-10.7	0.794	MM
2	200528R2_2	2.50	1.25	NO	34.12	1.000	2.16e4	9.70e5	2.50	0.1	0.890	MM
3	200528R2_3	10.0	1.28	NO	34.12	1.000	9.20e4	1.01e6	10.3	2.7	0.914	MM
4	200528R2_4	200	1.18	NO	34.12	1.001	2.16e6	1.18e6	206	2.8	0.914	db
5	200528R2_5	1500	1.19	NO	34.12	1.000	1.80e7	1.33e6	1520	1.2	0.900	db
6	200528R2_6	50.0	1.25	NO	34.13	1.000	4.22e5	9.14e5	51.9	3.8	0.923	MM

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

Response Factor: 0.934102
 RRF SD: 0.0631666, Relative SD: 6.76228
 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	200528R2_1	1.25	1.09	NO	34.70	1.001	9.51e3	9.22e5	1.10	-11.7	0.825	bb
2	200528R2_2	2.50	1.26	NO	34.71	1.001	1.93e4	8.66e5	2.38	-4.7	0.890	bb
3	200528R2_3	10.0	1.25	NO	34.71	1.000	8.53e4	8.69e5	10.5	5.2	0.982	bd
4	200528R2_4	200	1.19	NO	34.71	1.001	2.00e6	1.04e6	207	3.3	0.965	bb
5	200528R2_5	1500	1.19	NO	34.72	1.001	1.72e7	1.18e6	1560	4.1	0.972	bb
6	200528R2_6	50.0	1.25	NO	34.72	1.000	3.88e5	8.00e5	51.9	3.9	0.971	bb

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

Response Factor: 0.870707
 RRF SD: 0.0533625, Relative SD: 6.12863
 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	200528R2_1	1.25	1.19	NO	35.61	1.001	7.48e3	7.73e5	1.11	-11.0	0.775	bb
2	200528R2_2	2.50	1.12	NO	35.61	1.000	1.48e4	7.04e5	2.42	-3.1	0.844	bb
3	200528R2_3	10.0	1.24	NO	35.62	1.000	6.49e4	7.27e5	10.3	2.5	0.892	bd
4	200528R2_4	200	1.20	NO	35.62	1.001	1.60e6	8.84e5	208	3.9	0.904	bb
5	200528R2_5	1500	1.20	NO	35.63	1.000	1.40e7	1.02e6	1580	5.6	0.919	bb
6	200528R2_6	50.0	1.22	NO	35.63	1.000	2.98e5	6.70e5	51.1	2.2	0.890	bb

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

Response Factor: 0.873391
 RRF SD: 0.0600077, Relative SD: 6.87065
 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	200528R2_1	1.25	1.03	NO	37.37	1.000	6.77e3	7.13e5	1.09	-13.1	0.759	bb
2	200528R2_2	2.50	0.94	NO	37.40	1.001	1.40e4	6.49e5	2.48	-0.9	0.866	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	200528R2_3	10.0	1.00	NO	37.40	1.001	5.72e4	6.48e5	10.1	1.0	0.883	bd
4	200528R2_4	200	0.99	NO	37.39	1.000	1.43e6	7.67e5	213	6.5	0.930	bb
5	200528R2_5	1500	1.00	NO	37.40	1.000	1.28e7	9.39e5	1560	3.7	0.906	bb
6	200528R2_6	50.0	0.98	NO	37.41	1.001	2.64e5	5.89e5	51.4	2.7	0.897	bb

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

Response Factor: 1.01285

RRF SD: 0.106215, Relative SD: 10.4867

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	200528R2_1	1.25	0.99	NO	39.33	1.001	5.26e3	5.09e5	1.02	-18.4	0.827	bb
2	200528R2_2	2.50	0.98	NO	39.33	1.000	1.03e4	4.36e5	2.33	-6.7	0.945	bb
3	200528R2_3	10.0	1.01	NO	39.34	1.000	4.43e4	4.19e5	10.4	4.3	1.06	MM
4	200528R2_4	200	0.98	NO	39.33	1.000	1.13e6	5.18e5	214	7.2	1.09	bb
5	200528R2_5	1500	1.00	NO	39.34	1.000	1.05e7	6.39e5	1620	8.2	1.10	bb
6	200528R2_6	50.0	0.98	NO	39.34	1.000	2.00e5	3.75e5	52.7	5.4	1.07	bb

Compound name: OCDF

Response Factor: 0.806476

RRF SD: 0.0306481, Relative SD: 3.80025

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	200528R2_1	2.50	0.87	NO	41.96	1.000	1.27e4	1.35e6	2.33	-6.6	0.753	bb
2	200528R2_2	5.00	0.84	NO	41.96	1.000	2.40e4	1.22e6	4.89	-2.2	0.789	bb
3	200528R2_3	20.0	0.86	NO	41.96	1.000	9.80e4	1.18e6	20.6	3.0	0.831	bb
4	200528R2_4	400	0.87	NO	41.96	1.000	2.54e6	1.57e6	402	0.5	0.810	bb
5	200528R2_5	3000	0.88	NO	41.98	1.000	2.39e7	1.92e6	3090	3.1	0.831	bb
6	200528R2_6	100	0.85	NO	41.97	1.000	4.44e5	1.08e6	102	2.3	0.825	bb

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

Response Factor: 1.15633

RRF SD: 0.0999567, Relative SD: 8.64433

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	200528R2_1	100	0.80	NO	26.54	1.026	1.43e6	1.11e6	111	11.2	1.29	bb
2	200528R2_2	100	0.79	NO	26.54	1.025	1.29e6	1.24e6	89.8	-10.2	1.04	bb
3	200528R2_3	100	0.79	NO	26.54	1.025	1.31e6	1.26e6	89.8	-10.2	1.04	bb
4	200528R2_4	100	0.79	NO	26.54	1.025	1.50e6	1.26e6	103	2.8	1.19	bb
5	200528R2_5	100	0.78	NO	26.56	1.025	1.52e6	1.24e6	106	5.5	1.22	bb
6	200528R2_6	100	0.79	NO	26.56	1.025	1.16e6	9.95e5	101	0.8	1.17	bb

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

Response Factor: 0.848975

RRF SD: 0.0899186, Relative SD: 10.5914

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	200528R2_1	100	0.64	NO	31.48	1.216	1.00e6	1.11e6	107	6.6	0.905	bb
2	200528R2_2	100	0.63	NO	31.50	1.216	9.36e5	1.24e6	88.7	-11.3	0.753	bb
3	200528R2_3	100	0.63	NO	31.50	1.216	9.29e5	1.26e6	86.8	-13.2	0.737	bb
4	200528R2_4	100	0.64	NO	31.50	1.216	1.11e6	1.26e6	103	3.3	0.877	bb
5	200528R2_5	100	0.64	NO	31.50	1.215	1.21e6	1.24e6	114	14.3	0.970	bb
6	200528R2_6	100	0.64	NO	31.50	1.215	8.48e5	9.95e5	100	0.3	0.852	bb

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

Response Factor: 0.778953

RRF SD: 0.096377, Relative SD: 12.3726

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	200528R2_1	100	1.27	NO	34.85	1.014	6.95e5	8.40e5	106	6.2	0.827	bd
2	200528R2_2	100	1.28	NO	34.87	1.014	6.46e5	9.66e5	85.9	-14.1	0.669	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	200528R2_3	100	1.27	NO	34.87	1.014	6.61e5	9.75e5	87.0	-13.0	0.678	bd
4	200528R2_4	100	1.28	NO	34.86	1.014	7.89e5	9.81e5	103	3.4	0.805	bd
5	200528R2_5	100	1.28	NO	34.87	1.014	9.34e5	1.01e6	119	18.6	0.924	bd
6	200528R2_6	100	1.27	NO	34.88	1.014	6.04e5	7.84e5	98.9	-1.1	0.770	bd

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

Response Factor: 1.01669

RRF SD: 0.116266, Relative SD: 11.4358

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	200528R2_1	100	1.27	NO	34.95	1.017	9.27e5	8.40e5	108	8.5	1.10	db
2	200528R2_2	100	1.27	NO	34.96	1.017	8.61e5	9.66e5	87.7	-12.3	0.891	db
3	200528R2_3	100	1.26	NO	34.97	1.017	8.39e5	9.75e5	84.7	-15.3	0.861	db
4	200528R2_4	100	1.25	NO	34.96	1.017	1.03e6	9.81e5	104	3.5	1.05	db
5	200528R2_5	100	1.27	NO	34.97	1.017	1.17e6	1.01e6	113	13.4	1.15	db
6	200528R2_6	100	1.23	NO	34.97	1.017	8.15e5	7.84e5	102	2.3	1.04	db

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

Response Factor: 0.902653

RRF SD: 0.11238, Relative SD: 12.45

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	200528R2_1	100	1.23	NO	35.24	1.025	8.33e5	8.40e5	110	9.8	0.991	bb
2	200528R2_2	100	1.26	NO	35.25	1.025	7.48e5	9.66e5	85.8	-14.2	0.774	bb
3	200528R2_3	100	1.28	NO	35.25	1.025	7.53e5	9.75e5	85.6	-14.4	0.773	bd
4	200528R2_4	100	1.23	NO	35.25	1.025	9.12e5	9.81e5	103	3.1	0.930	MM
5	200528R2_5	100	1.26	NO	35.26	1.025	1.06e6	1.01e6	116	16.1	1.05	bb
6	200528R2_6	100	1.18	NO	35.26	1.025	7.05e5	7.84e5	99.6	-0.4	0.899	bb

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

Response Factor: 0.689179
 RRF SD: 0.0899136, Relative SD: 13.0465
 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	200528R2_1	100	1.06	NO	38.77	1.128	6.48e5	8.40e5	112	11.9	0.771	MM
2	200528R2_2	100	1.04	NO	38.78	1.128	6.01e5	9.66e5	90.2	-9.8	0.622	bd
3	200528R2_3	100	1.12	NO	38.79	1.128	5.57e5	9.75e5	83.0	-17.0	0.572	bd
4	200528R2_4	100	1.04	NO	38.78	1.128	6.86e5	9.81e5	102	1.6	0.700	MM
5	200528R2_5	100	1.03	NO	38.80	1.128	8.18e5	1.01e6	117	17.4	0.809	bb
6	200528R2_6	100	1.04	NO	38.80	1.128	5.18e5	7.84e5	95.9	-4.1	0.661	bd

Compound name: 13C-OCDD

Response Factor: 0.652099
 RRF SD: 0.111511, Relative SD: 17.1002
 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	200528R2_1	200	0.89	NO	41.75	1.215	1.18e6	8.40e5	216	7.8	0.703	MM
2	200528R2_2	200	0.89	NO	41.76	1.215	1.05e6	9.66e5	167	-16.3	0.546	MM
3	200528R2_3	200	0.91	NO	41.76	1.214	1.03e6	9.75e5	162	-18.9	0.529	bd
4	200528R2_4	200	0.90	NO	41.76	1.215	1.35e6	9.81e5	211	5.7	0.689	bd
5	200528R2_5	200	0.93	NO	41.78	1.215	1.67e6	1.01e6	254	26.9	0.827	bd
6	200528R2_6	200	0.88	NO	41.77	1.215	9.71e5	7.84e5	190	-5.1	0.619	bd

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

Response Factor: 1.05898
 RRF SD: 0.0854755, Relative SD: 8.07146
 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	200528R2_1	100	0.76	NO	25.65	0.991	1.95e6	1.65e6	112	12.1	1.19	bb
2	200528R2_2	100	0.77	NO	25.66	0.991	1.78e6	1.83e6	92.1	-7.9	0.975	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	200528R2_3	100	0.78	NO	25.66	0.991	1.80e6	1.89e6	90.1	-9.9	0.955	bb
4	200528R2_4	100	0.78	NO	25.66	0.991	2.04e6	1.91e6	101	1.0	1.07	bb
5	200528R2_5	100	0.78	NO	25.67	0.991	2.04e6	1.85e6	104	4.2	1.10	bb
6	200528R2_6	100	0.77	NO	25.68	0.991	1.59e6	1.49e6	101	0.5	1.06	bb

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

Response Factor: 0.837982

RRF SD: 0.0870192, Relative SD: 10.3844

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	200528R2_1	100	1.59	NO	30.20	1.167	1.50e6	1.65e6	109	9.0	0.913	bb
2	200528R2_2	100	1.59	NO	30.22	1.167	1.37e6	1.83e6	89.3	-10.7	0.748	bb
3	200528R2_3	100	1.59	NO	30.22	1.167	1.38e6	1.89e6	86.9	-13.1	0.728	bb
4	200528R2_4	100	1.61	NO	30.22	1.167	1.63e6	1.91e6	102	1.9	0.854	bb
5	200528R2_5	100	1.63	NO	30.22	1.166	1.75e6	1.85e6	113	12.9	0.946	bb
6	200528R2_6	100	1.60	NO	30.23	1.166	1.25e6	1.49e6	100	0.0	0.838	bb

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

Response Factor: 0.816557

RRF SD: 0.0702322, Relative SD: 8.60101

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	200528R2_1	100	1.60	NO	31.18	1.204	1.42e6	1.65e6	106	5.9	0.865	db
2	200528R2_2	100	1.57	NO	31.19	1.204	1.35e6	1.83e6	90.7	-9.3	0.741	db
3	200528R2_3	100	1.61	NO	31.19	1.204	1.38e6	1.89e6	89.4	-10.6	0.730	db
4	200528R2_4	100	1.61	NO	31.19	1.204	1.57e6	1.91e6	101	1.0	0.825	db
5	200528R2_5	100	1.60	NO	31.19	1.204	1.69e6	1.85e6	112	11.5	0.911	bb
6	200528R2_6	100	1.59	NO	31.21	1.204	1.24e6	1.49e6	101	1.4	0.828	db

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

Response Factor: 1.00752

RRF SD: 0.115021, Relative SD: 11.4162

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	200528R2_1	100	0.50	NO	33.97	0.988	9.42e5	8.40e5	111	11.3	1.12	bd
2	200528R2_2	100	0.50	NO	33.98	0.988	8.49e5	9.66e5	87.2	-12.8	0.878	bd
3	200528R2_3	100	0.50	NO	33.98	0.988	8.47e5	9.75e5	86.2	-13.8	0.869	bd
4	200528R2_4	100	0.50	NO	33.98	0.988	1.02e6	9.81e5	103	3.0	1.04	bd
5	200528R2_5	100	0.50	NO	33.99	0.988	1.15e6	1.01e6	113	12.7	1.14	bd
6	200528R2_6	100	0.50	NO	33.99	0.988	7.87e5	7.84e5	99.6	-0.4	1.00	bd

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

Response Factor: 1.16702

RRF SD: 0.127304, Relative SD: 10.9085

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	200528R2_1	100	0.50	NO	34.09	0.992	1.07e6	8.40e5	110	9.5	1.28	db
2	200528R2_2	100	0.51	NO	34.11	0.992	9.70e5	9.66e5	86.1	-13.9	1.00	db
3	200528R2_3	100	0.51	NO	34.11	0.992	1.01e6	9.75e5	88.5	-11.5	1.03	db
4	200528R2_4	100	0.51	NO	34.10	0.992	1.18e6	9.81e5	103	3.1	1.20	db
5	200528R2_5	100	0.51	NO	34.11	0.992	1.33e6	1.01e6	113	13.0	1.32	db
6	200528R2_6	100	0.50	NO	34.12	0.992	9.14e5	7.84e5	99.8	-0.2	1.17	db

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

Response Factor: 1.02186

RRF SD: 0.110658, Relative SD: 10.829

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.51	NO	34.68	1.009	9.22e5	8.40e5	107	7.4	1.10	bb
2	200528R2_2	100	0.50	NO	34.69	1.009	8.66e5	9.66e5	87.7	-12.3	0.896	bb

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	100	0.51	NO	34.70	1.009	8.69e5	9.75e5	87.2	-12.8	0.891	bb
4	200528R2_4	100	0.51	NO	34.69	1.009	1.04e6	9.81e5	104	3.6	1.06	bb
5	200528R2_5	100	0.50	NO	34.70	1.009	1.18e6	1.01e6	114	14.3	1.17	bb
6	200528R2_6	100	0.51	NO	34.71	1.009	8.00e5	7.84e5	99.8	-0.2	1.02	bb

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

Response Factor: 0.859541

RRF SD: 0.107178, Relative SD: 12.4692

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	200528R2_1	100	0.51	NO	35.59	1.036	7.73e5	8.40e5	107	7.0	0.919	MM
2	200528R2_2	100	0.50	NO	35.61	1.036	7.04e5	9.66e5	84.8	-15.2	0.729	MM
3	200528R2_3	100	0.50	NO	35.61	1.036	7.27e5	9.75e5	86.8	-13.2	0.746	MM
4	200528R2_4	100	0.49	NO	35.60	1.036	8.84e5	9.81e5	105	4.9	0.902	bb
5	200528R2_5	100	0.51	NO	35.62	1.036	1.02e6	1.01e6	117	17.3	1.01	bb
6	200528R2_6	100	0.51	NO	35.63	1.036	6.70e5	7.84e5	99.3	-0.7	0.854	bd

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

Response Factor: 0.774499

RRF SD: 0.102271, Relative SD: 13.2048

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	200528R2_1	100	0.44	NO	37.37	1.087	7.13e5	8.40e5	110	9.6	0.849	bd
2	200528R2_2	100	0.42	NO	37.38	1.087	6.49e5	9.66e5	86.7	-13.3	0.672	bb
3	200528R2_3	100	0.44	NO	37.38	1.087	6.48e5	9.75e5	85.9	-14.1	0.665	bd
4	200528R2_4	100	0.44	NO	37.38	1.087	7.67e5	9.81e5	101	0.9	0.782	bb
5	200528R2_5	100	0.44	NO	37.39	1.087	9.39e5	1.01e6	120	19.9	0.928	bd
6	200528R2_6	100	0.43	NO	37.39	1.087	5.89e5	7.84e5	97.0	-3.0	0.751	bb

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

Response Factor: 0.520991

RRF SD: 0.083066, Relative SD: 15.9439

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	200528R2_1	100	0.43	NO	39.31	1.144	5.09e5	8.40e5	116	16.3	0.606	MM
2	200528R2_2	100	0.42	NO	39.32	1.144	4.36e5	9.66e5	86.7	-13.3	0.452	bb
3	200528R2_3	100	0.42	NO	39.33	1.144	4.19e5	9.75e5	82.5	-17.5	0.430	MM
4	200528R2_4	100	0.42	NO	39.32	1.144	5.18e5	9.81e5	101	1.4	0.529	MM
5	200528R2_5	100	0.44	NO	39.33	1.144	6.39e5	1.01e6	121	21.3	0.632	bb
6	200528R2_6	100	0.43	NO	39.34	1.144	3.75e5	7.84e5	91.8	-8.2	0.478	bd

Compound name: 13C-OCDF

Response Factor: 0.745653

RRF SD: 0.129429, Relative SD: 17.3579

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	200528R2_1	200	0.87	NO	41.94	1.220	1.35e6	8.40e5	215	7.6	0.803	bb
2	200528R2_2	200	0.83	NO	41.95	1.220	1.22e6	9.66e5	169	-15.4	0.631	bb
3	200528R2_3	200	0.90	NO	41.96	1.220	1.18e6	9.75e5	162	-18.8	0.605	bd
4	200528R2_4	200	0.88	NO	41.95	1.220	1.57e6	9.81e5	215	7.3	0.800	MM
5	200528R2_5	200	0.88	NO	41.97	1.220	1.92e6	1.01e6	254	27.2	0.949	bb
6	200528R2_6	200	0.90	NO	41.96	1.220	1.08e6	7.84e5	184	-7.9	0.687	MM

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

Response Factor: 1.03685

RRF SD: 0.126311, Relative SD: 12.1822

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	200528R2_1	0.250			26.57	1.027	2.71e3	1.11e6	0.235	-5.9	0.976	bb
2	200528R2_2	0.500			26.56	1.025	5.67e3	1.24e6	0.440	-11.9	0.913	bb

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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	200528R2_3	2.00			26.57	1.026	2.30e4	1.26e6	1.76	-12.0	0.912	bd
4	200528R2_4	40.0			26.56	1.025	5.78e5	1.26e6	44.1	10.2	1.14	bb
5	200528R2_5	200			26.57	1.025	3.03e6	1.24e6	235	17.7	1.22	bb
6	200528R2_6	10.0			26.59	1.026	1.05e5	9.95e5	10.2	2.1	1.06	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	200528R2_1	100	0.80	NO	25.89	1.000	1.11e6	1.11e6	100	0.0	1.00	bb
2	200528R2_2	100	0.81	NO	25.90	1.000	1.24e6	1.24e6	100	0.0	1.00	bb
3	200528R2_3	100	0.80	NO	25.90	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
4	200528R2_4	100	0.80	NO	25.90	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
5	200528R2_5	100	0.80	NO	25.92	1.000	1.24e6	1.24e6	100	0.0	1.00	bb
6	200528R2_6	100	0.80	NO	25.92	1.000	9.95e5	9.95e5	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	200528R2_1	100	0.78	NO	24.22	1.000	1.65e6	1.65e6	100	0.0	1.00	bb
2	200528R2_2	100	0.78	NO	24.22	1.000	1.83e6	1.83e6	100	0.0	1.00	bb
3	200528R2_3	100	0.78	NO	24.22	1.000	1.89e6	1.89e6	100	0.0	1.00	bb
4	200528R2_4	100	0.79	NO	24.22	1.000	1.91e6	1.91e6	100	0.0	1.00	bb
5	200528R2_5	100	0.79	NO	24.24	1.000	1.85e6	1.85e6	100	0.0	1.00	bb
6	200528R2_6	100	0.77	NO	24.24	1.000	1.49e6	1.49e6	100	0.0	1.00	bb

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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	200528R2_1	100	0.50	NO	34.37	1.000	8.40e5	8.40e5	100	0.0	1.00	bb
2	200528R2_2	100	0.51	NO	34.38	1.000	9.66e5	9.66e5	100	0.0	1.00	bb
3	200528R2_3	100	0.51	NO	34.39	1.000	9.75e5	9.75e5	100	0.0	1.00	bb
4	200528R2_4	100	0.51	NO	34.38	1.000	9.81e5	9.81e5	100	0.0	1.00	bb
5	200528R2_5	100	0.51	NO	34.39	1.000	1.01e6	1.01e6	100	0.0	1.00	bb
6	200528R2_6	100	0.50	NO	34.39	1.000	7.84e5	7.84e5	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CPSM.qld

Last Altered: Thursday, May 28, 2020 16:40:33 Pacific Daylight Time

Printed: Thursday, May 28, 2020 16:57:10 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200528R2_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.59
2	2 1,2,8,9-TCDD (Last)	27.53
3	3 1,2,4,7,9-PeCDD (First)	29.32
4	4 1,2,3,8,9-PeCDD (Last)	31.89
5	5 1,2,4,6,7,9-HxCDD (First)	33.39
6	6 1,2,3,7,8,9-HxCDD (Last)	35.27
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.81
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.81
9	9 1,3,6,8-TCDF (First)	20.44
10	10 1,2,8,9-TCDF (Last)	27.68
11	11 1,3,4,6,8-PeCDF (First)	27.64
12	12 1,2,3,8,9-PeCDF (Last)	32.14
13	13 1,2,3,4,6,8-HxCDF (First)	32.83
14	14 1,2,3,7,8,9-HxCDF (Last)	35.63
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.41
16	16 1,2,3,4,7,8,9-HpCDF (Last)	39.34

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CPSM.qld

Last Altered: Thursday, May 28, 2020 16:40:33 Pacific Daylight Time

Printed: Thursday, May 28, 2020 16:57:10 Pacific Daylight Time

GRB 05/29/2020

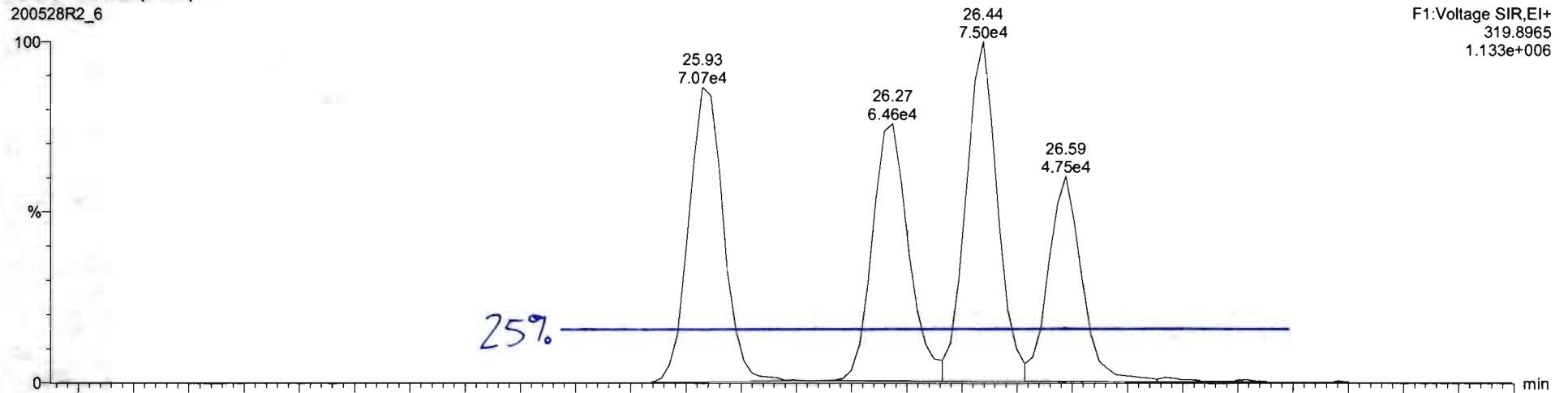
Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

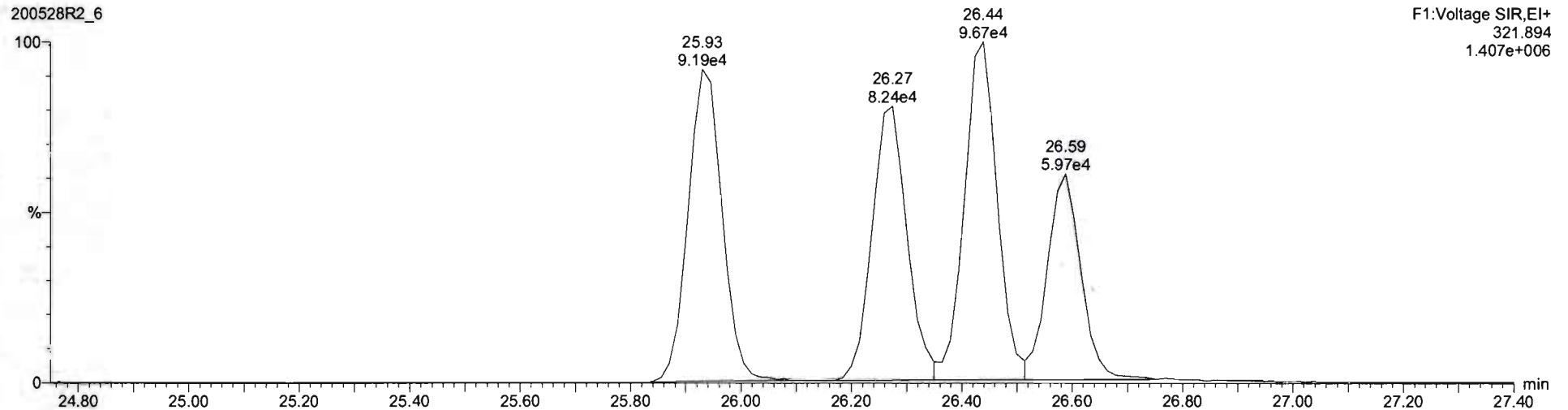
Name: 200528R2_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200528R2_6



200528R2_6



Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Friday, May 29, 2020 8:08:41 AM Pacific Daylight Time

Printed: Friday, May 29, 2020 8:08:46 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

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

	Name	ID	Acq.Date	Acq.Time
1	200528R2_1	ST200528R2_1 1613 CS0 19L2302	28-May-20	11:53:52
2	200528R2_2	ST200528R2_2 1613 CS1 19L2303	28-May-20	12:41:31
3	200528R2_3	ST200528R2_3 1613 CS2 19L2304	28-May-20	13:28:43
4	200528R2_4	ST200528R2_4 1613 CS4 19L2306	28-May-20	14:15:50
5	200528R2_5	ST200528R2_5 1613 CS5 19L2307	28-May-20	15:02:56
6	200528R2_6	ST200528R2_6 1613 CS3 19L2305	28-May-20	15:50:32
7	200528R2_7	SOLVENT BLANK	28-May-20	16:37:46
8	200528R2_8	SS200528R2_1 1613 SSS 19L2308	28-May-20	17:24:01
9	200528R2_9	B0E0131-BS1 OPR 1	28-May-20	18:10:13
10	200528R2_10	B0E0165-BS1 OPR 1	28-May-20	18:56:26
11	200528R2_11	B0E0127-BS1 OPR 1	28-May-20	19:42:36
12	200528R2_12	B0E0180-BS1 OPR 10	28-May-20	20:28:48
13	200528R2_13	SOLVENT BLANK	28-May-20	21:15:00
14	200528R2_14	B0E0180-BLK1 Method Blank 10	28-May-20	22:01:12
15	200528R2_15	B0E0131-BLK1 Method Blank 1	28-May-20	22:47:24
16	200528R2_16	B0E0165-BLK1 Method Blank 1	28-May-20	23:33:37
17	200528R2_17	B0E0127-BLK1 Method Blank 1	29-May-20	00:19:48
18	200528R2_18	2001052-01 ZID-001 1.00002	29-May-20	01:06:00
19	200528R2_19	2001031-01 Forebay Composite (24hr) 0.95078	29-May-20	01:52:12
20	200528R2_20	2001092-01 OF-031A BiWeekly Composite D/...	29-May-20	02:38:24

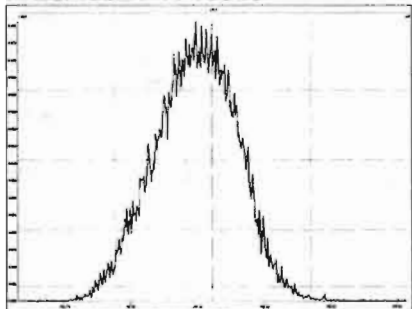
Experiment Calibration Report

MassLynx 4.1 SCN815

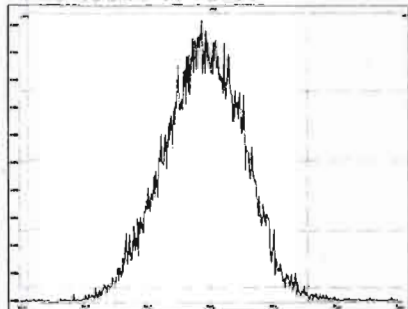
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, May 28, 2020 11:48:59 Pacific Daylight Time

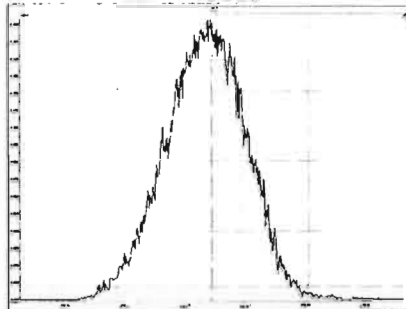
M 292.9824 R 10503



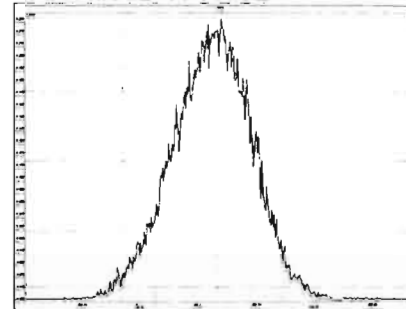
M 304.9824 R 10376



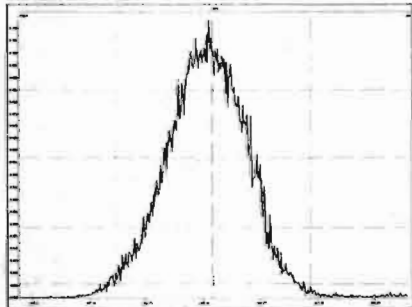
M 318.9792 R 10589



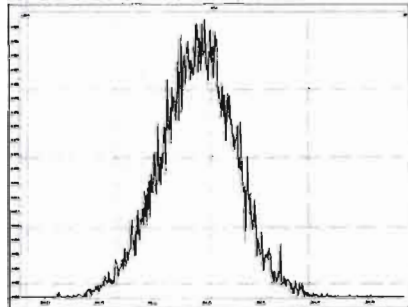
M 330.9792 R 10552



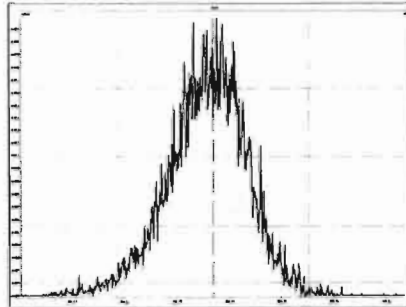
M 342.9792 R 10247



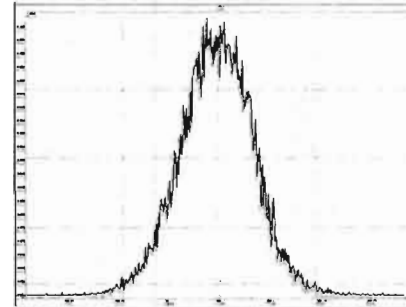
M 354.9792 R 10330



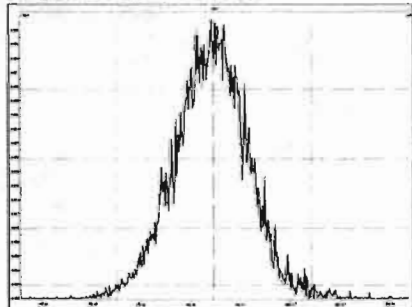
M 366.9792 R 11417



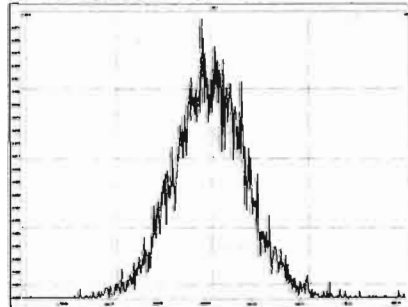
M 380.9760 R 11062



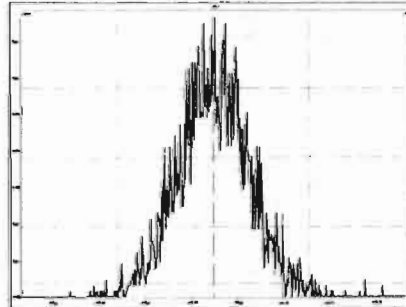
M 392.9760 R 11790



M 404.9760 R 12316



M 416.9760 R 12754



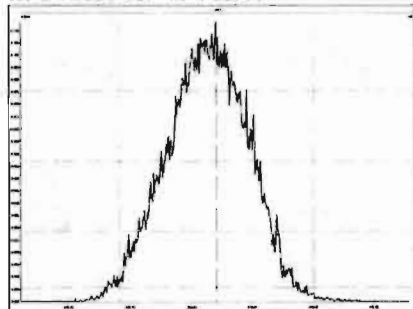
Experiment Calibration Report

MassLynx 4.1 SCN815

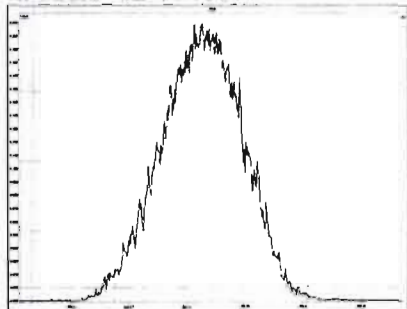
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, May 28, 2020 11:49:33 Pacific Daylight Time

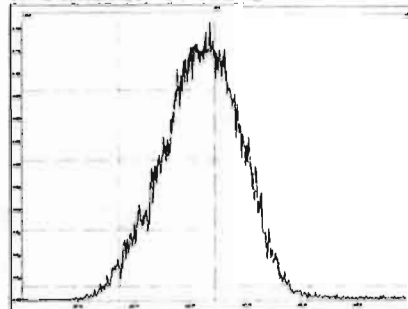
M 318.9792 R 10247



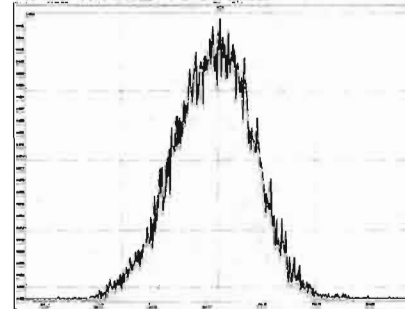
M 330.9792 R 10372



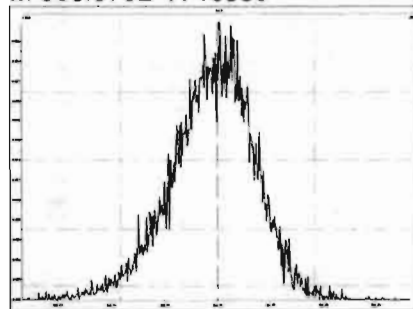
M 342.9792 R 10370



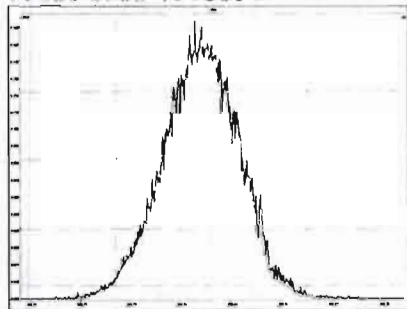
M 354.9792 R 10822



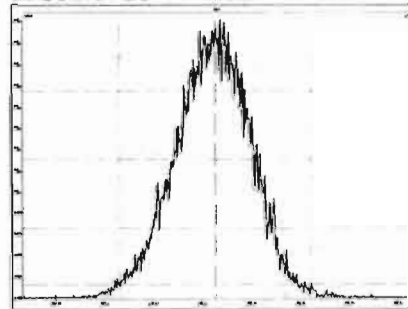
M 366.9792 R 10963



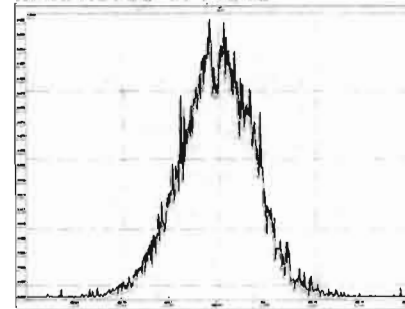
M 380.9760 R 10594



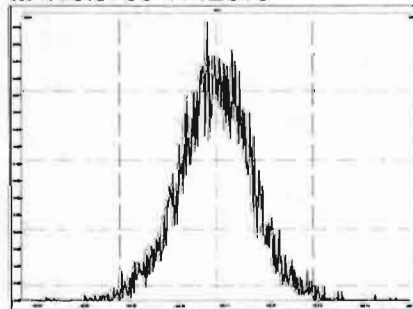
M 392.9760 R 10821



M 404.9760 R 11845



M 416.9760 R 12018



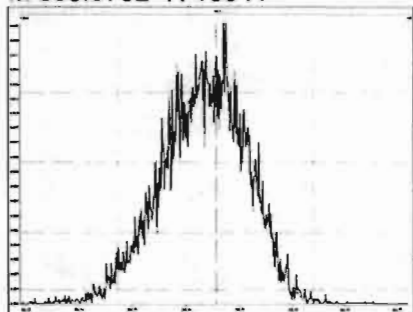
Experiment Calibration Report

MassLynx 4.1 SCN815

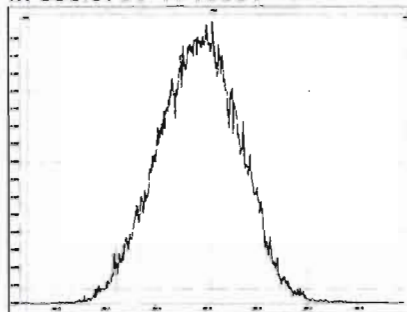
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, May 28, 2020 11:50:12 Pacific Daylight Time

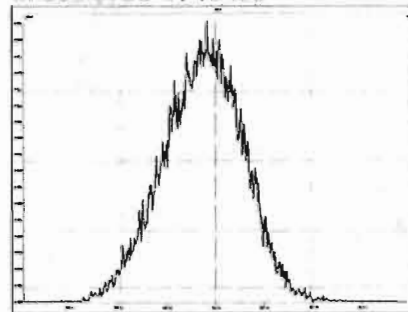
M 366.9792 R 10641



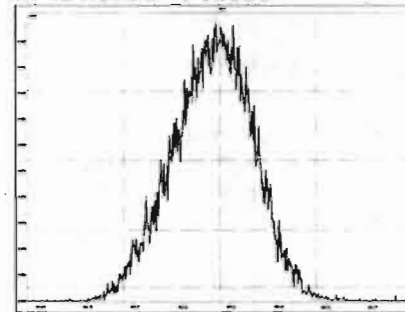
M 380.9760 R 10331



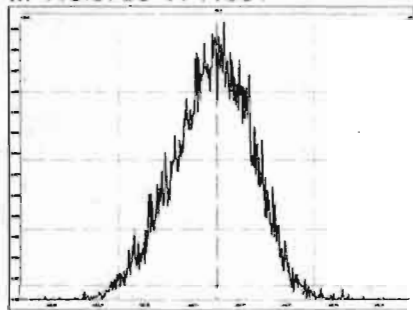
M 392.9760 R 10459



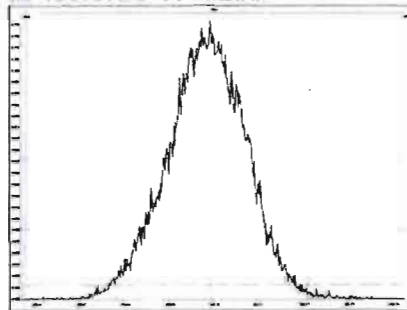
M 404.9760 R 10505



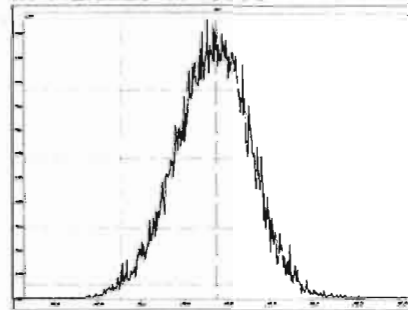
M 416.9760 R 11061



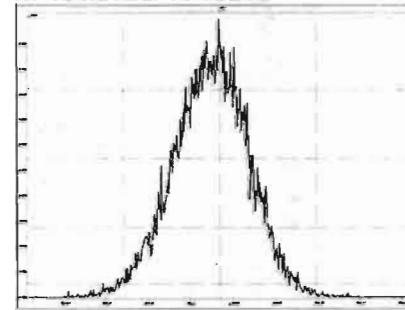
M 430.9728 R 10290



M 442.9728 R 10593



M 454.9728 R 10919



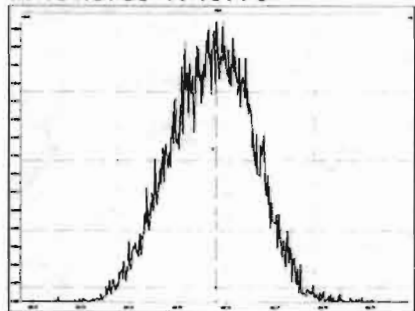
Experiment Calibration Report

MassLynx 4.1 SCN815

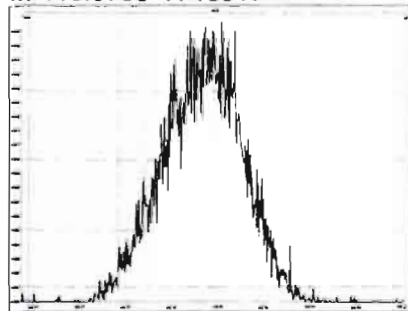
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Printed: Thursday, May 28, 2020 11:51:03 Pacific Daylight Time

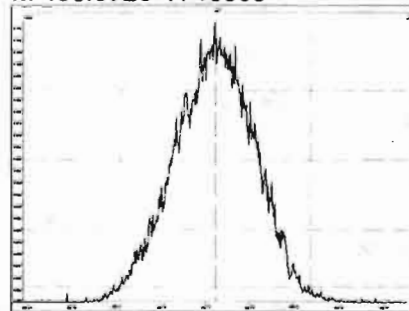
M 404.9760 R 10778



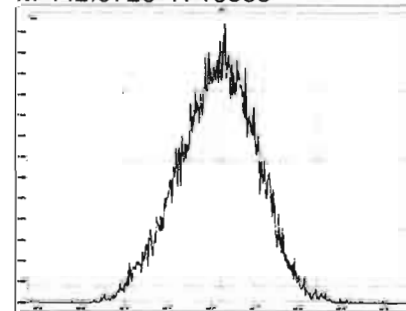
M 416.9760 R 10917



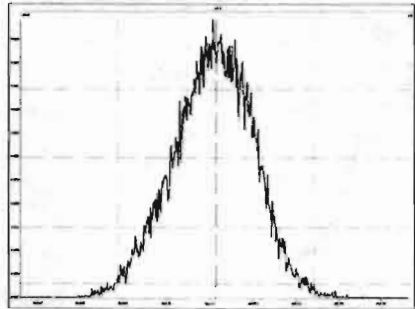
M 430.9728 R 10503



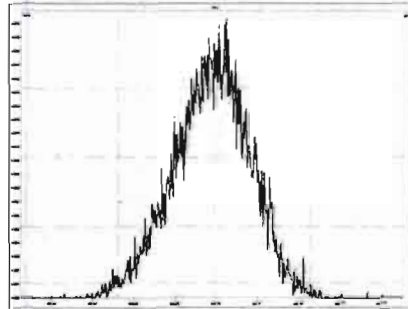
M 442.9728 R 10636



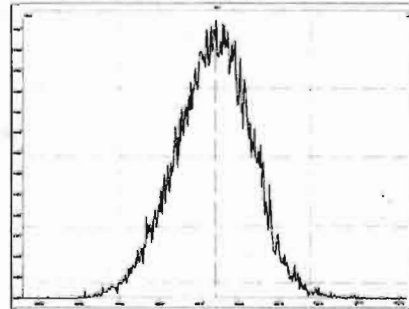
M 454.9728 R 10638



M 466.9728 R 10731



M 480.9696 R 10545



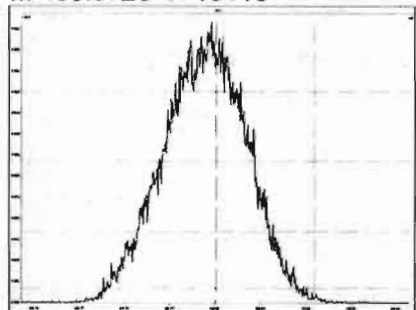
Experiment Calibration Report

MassLynx 4.1 SCN815

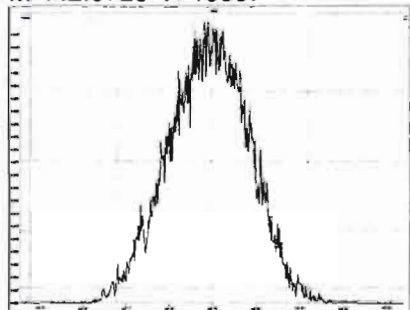
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Printed: Thursday, May 28, 2020 11:51:45 Pacific Daylight Time

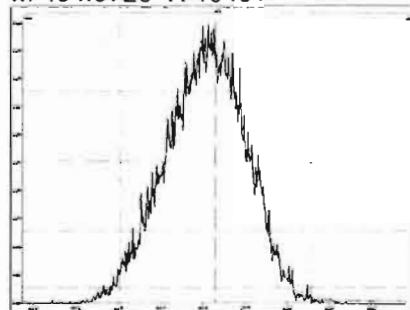
M 430.9728 R 10118



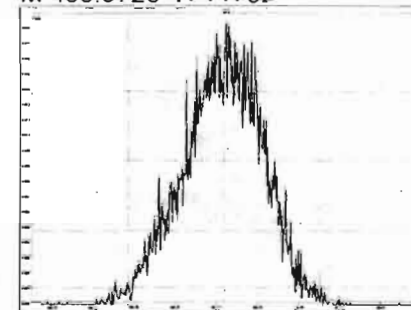
M 442.9728 R 10637



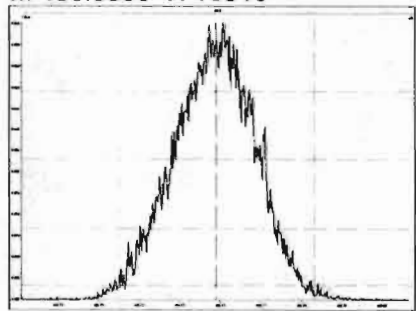
M 454.9728 R 10461



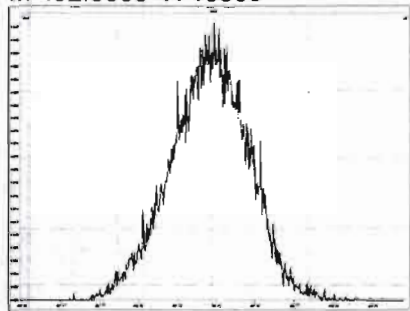
M 466.9728 R 11792



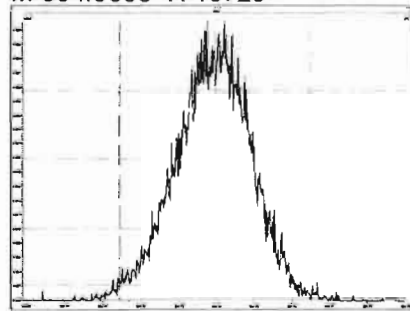
M 480.9696 R 10915



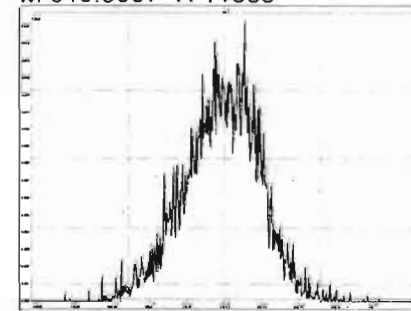
M 492.9696 R 10639



M 504.9696 R 10729



M 516.9697 R 11683



Dataset: Untitled

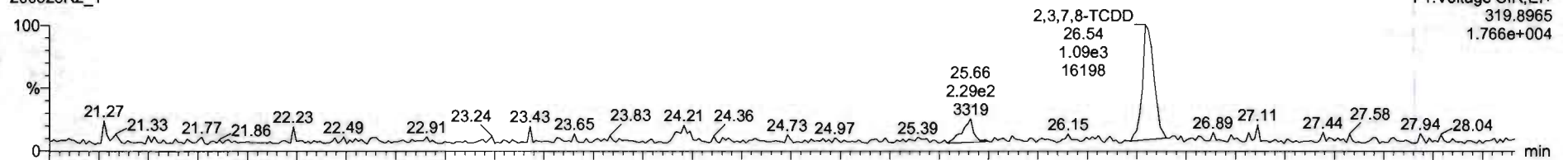
Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17
Calibration: 29 May 2020 07:49:30

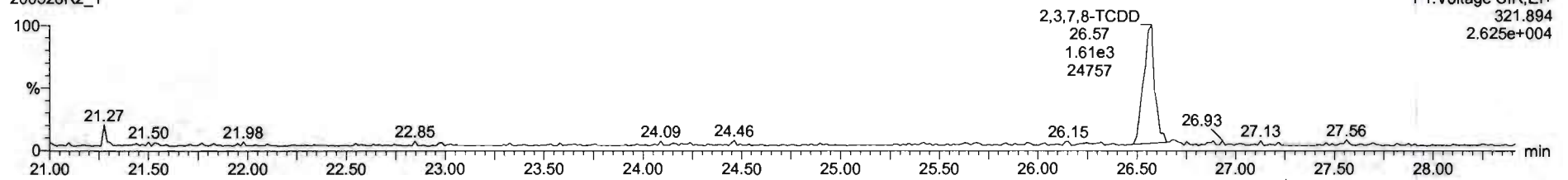
Name: 200528R2_1, Date: 28-May-2020, Time: 11:53:52, ID: ST200528R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDD

200528R2_1



200528R2_1

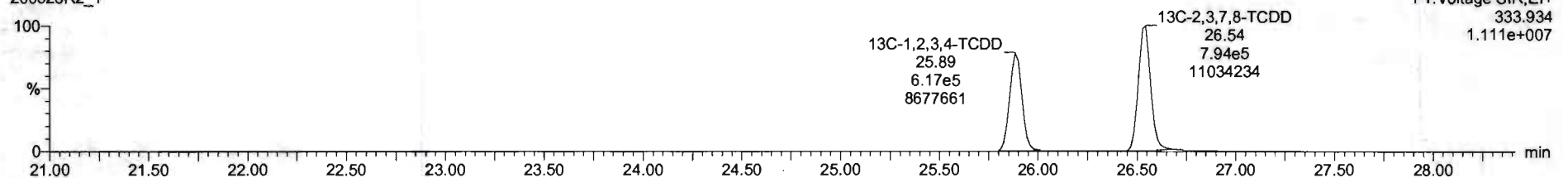


13C-2,3,7,8-TCDD

200528R2_1



200528R2_1



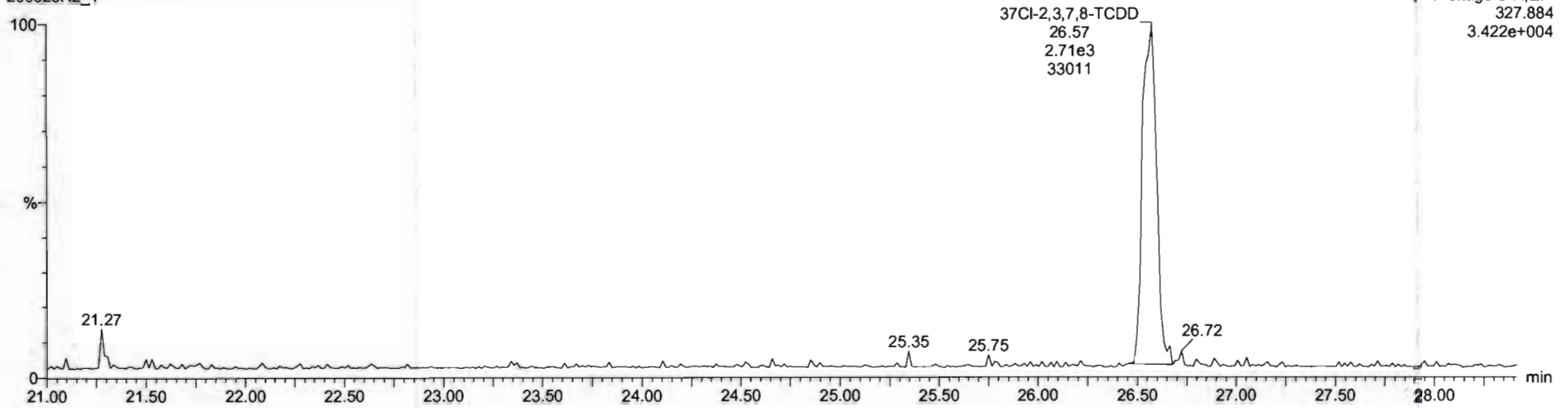
Dataset: Untitled

Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

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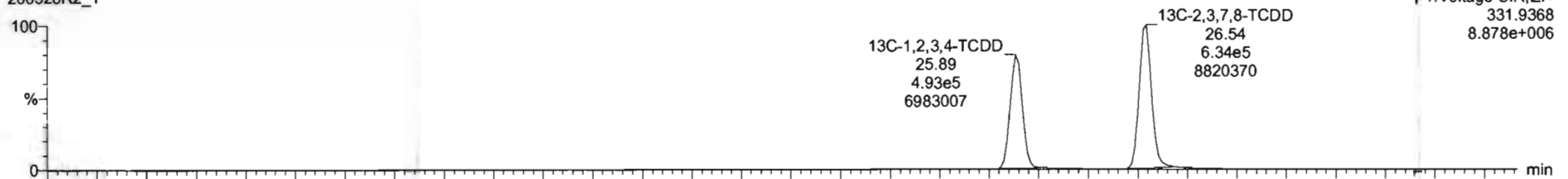
37Cl-2,3,7,8-TCDD

200528R2_1

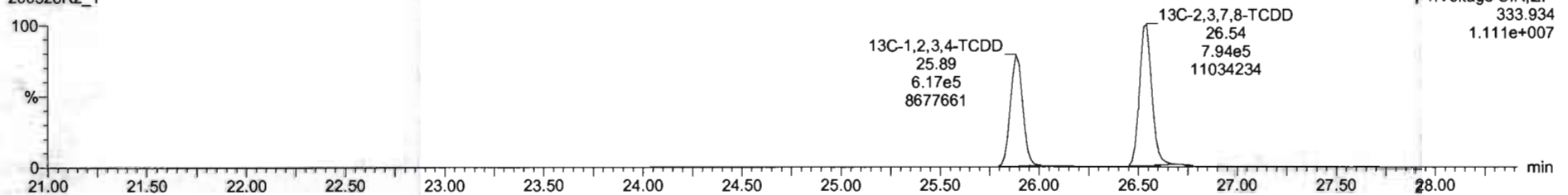


13C-1,2,3,4-TCDD

200528R2_1



200528R2_1



Dataset: Untitled

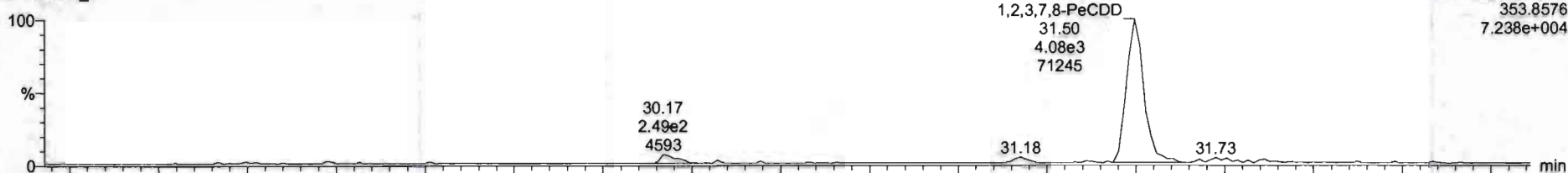
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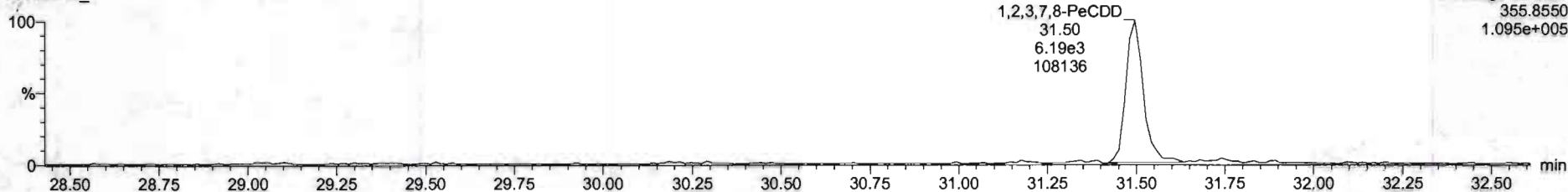
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1,2,3,7,8-PeCDD

200528R2_1

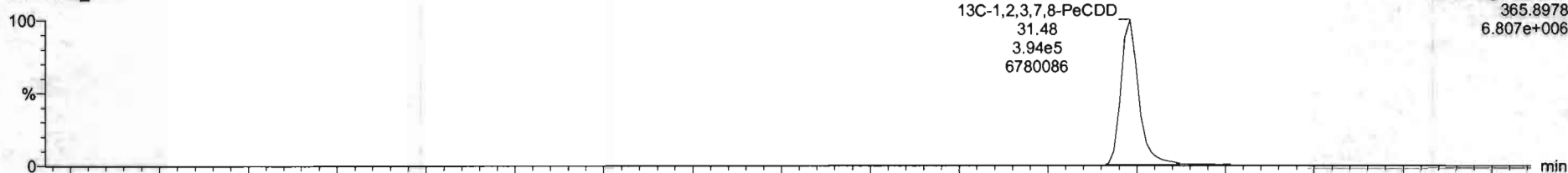


200528R2_1

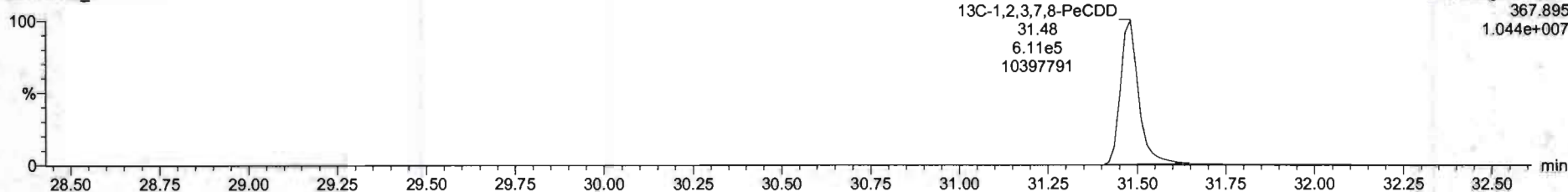


13C-1,2,3,7,8-PeCDD

200528R2_1



200528R2_1



Dataset: Untitled

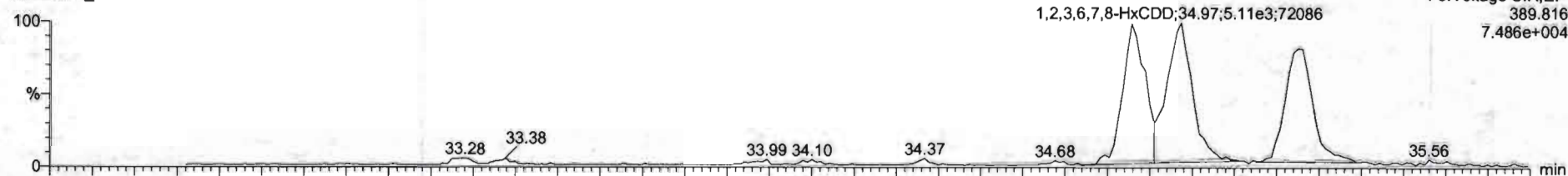
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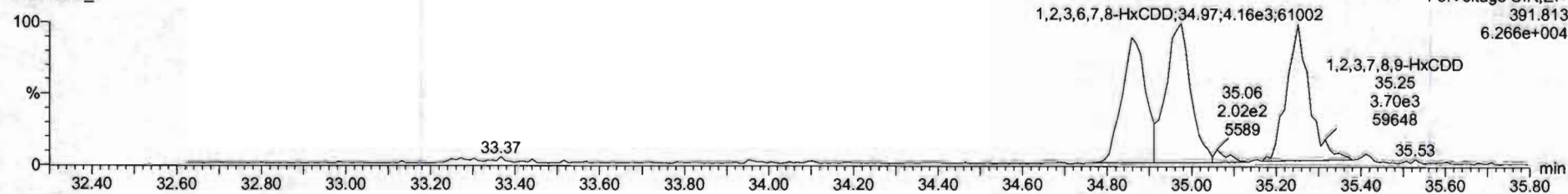
Name: 200528R2_1, Date: 28-May-2020, Time: 11:53:52, ID: ST200528R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200528R2_1

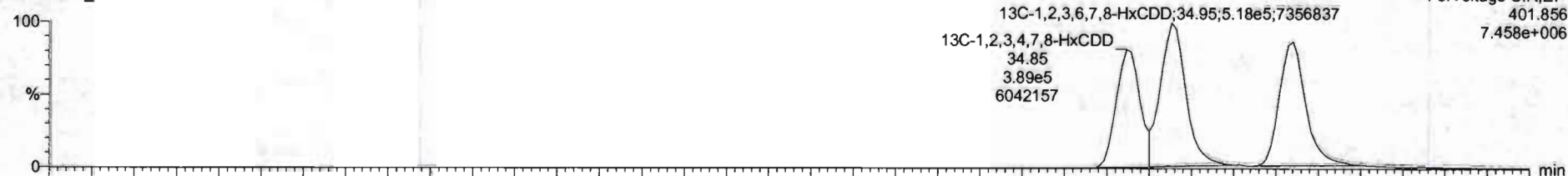


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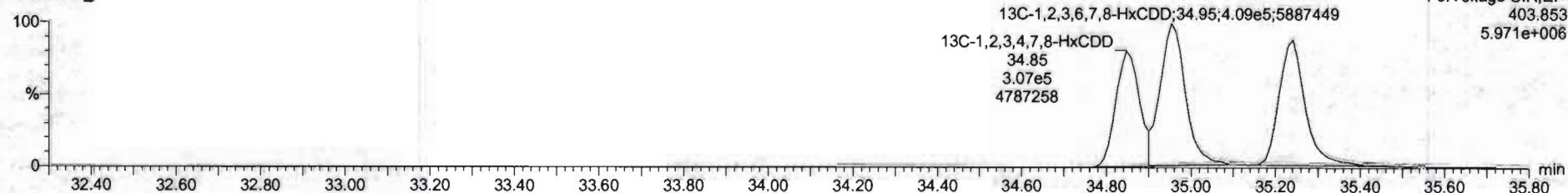


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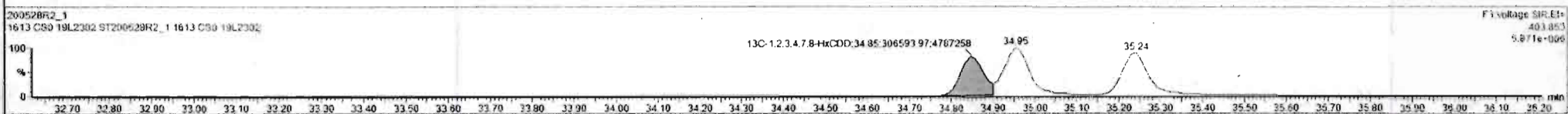
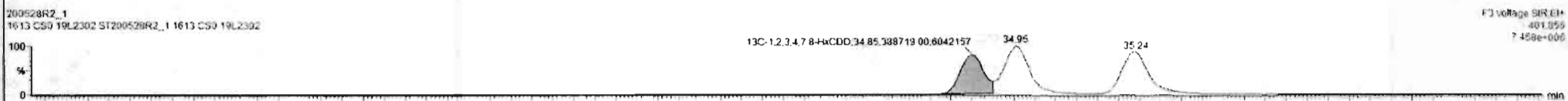
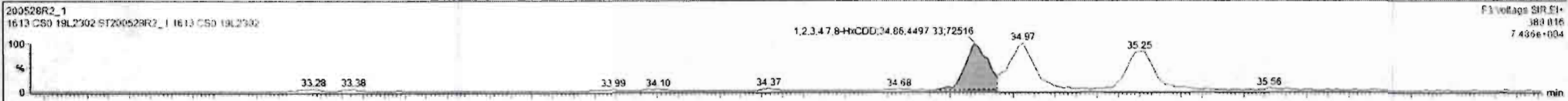
200528R2_1



200528R2_1



Name	Resp	RA	Rel	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.78e3	0.56	NO	0.8583	1.000	26.54	1.000	0.213	35.2	0.0247	0.213
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3 1,2,3,4,7,8-HxCDD	0.03e3	1.27	NO	1.0334	1.000	34.86	1.000	1.12	89.4	0.0428	1.12
4 1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5 1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8865	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6 1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8539	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7 OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8 2,3,7,8-TCDF	3.23e3	0.73	NO	0.7510	1.000	25.87	1.001	0.223	39.1	0.0142	0.223
9 1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0369	1.09
10 2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11 1,2,3,4,7,8-HxCDF	6.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12 1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8562	1.000	34.11	1.001	1.12	89.2	0.0334	1.12
13 2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14 1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8787	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15 1,2,3,4,5,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16 1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.02	81.8	0.0523	1.02
17 OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18 13C-2,3,7,8-TCDD	1.43e6	0.30	NO	1.1563	1.000	26.54	1.026	111	111	0.0632	
19 13C-1,2,3,7,8-PeCDD	1.06e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20 13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	34.85	1.014	106	106	0.318	
21 13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	



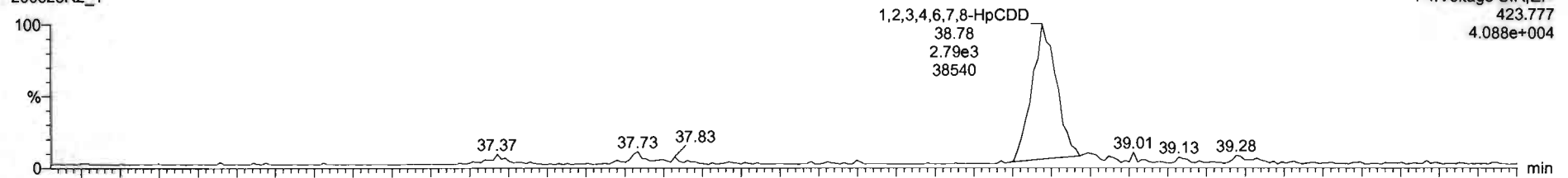
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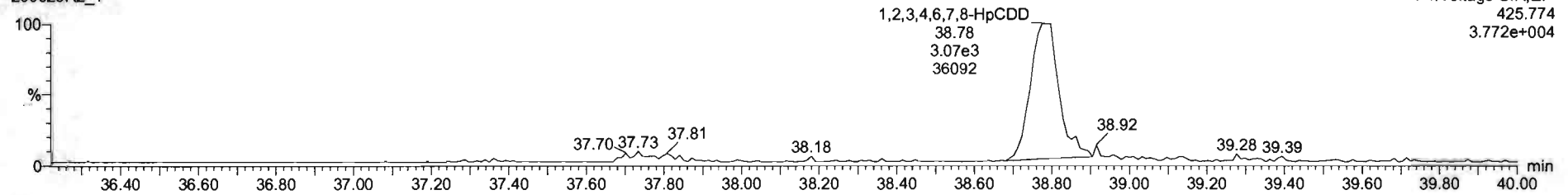
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1,2,3,4,6,7,8-HpCDD

200528R2_1

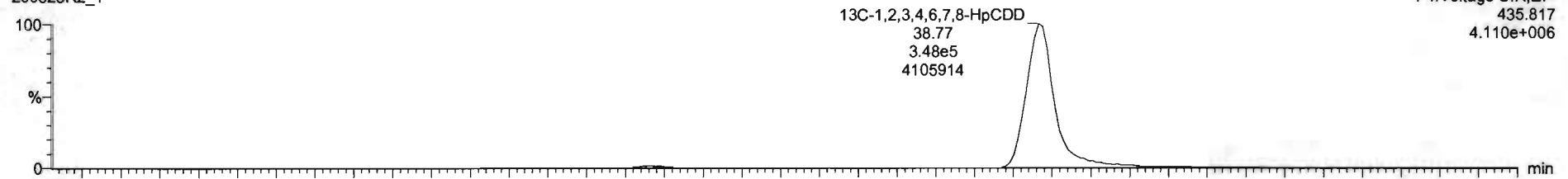


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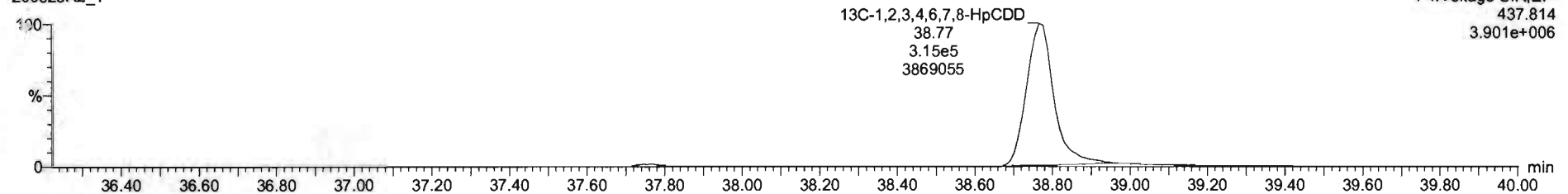


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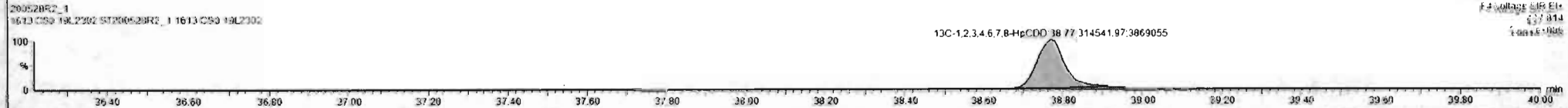
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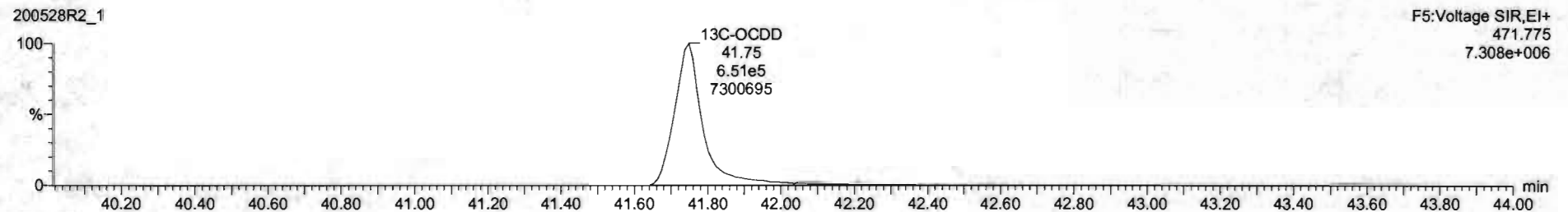
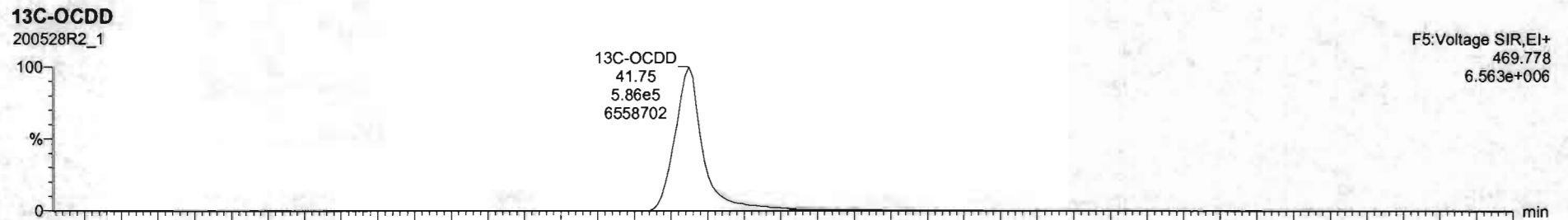
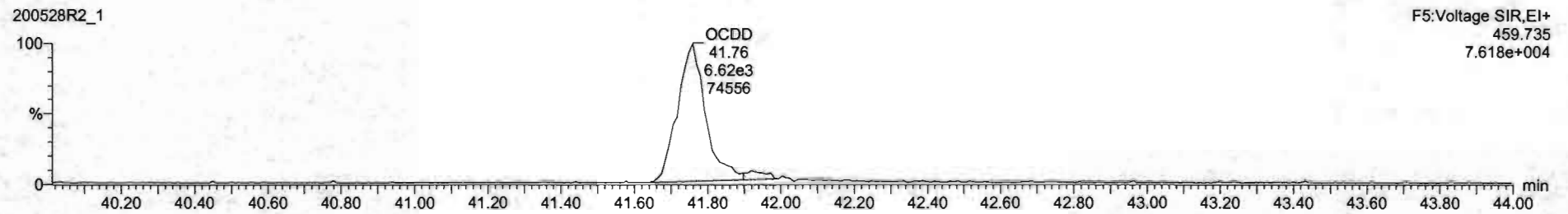
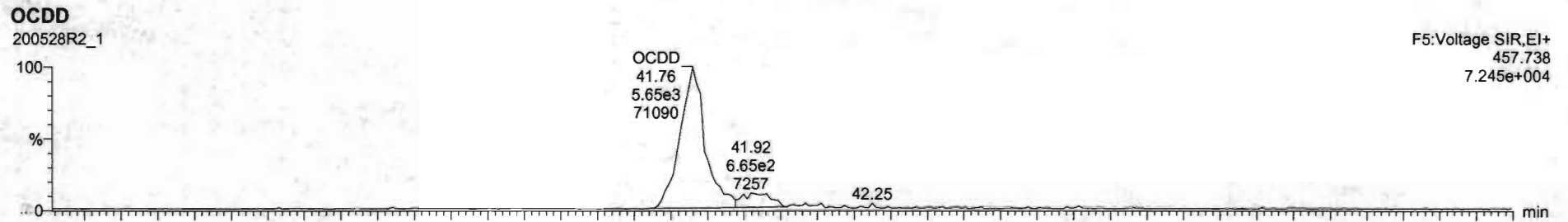
SI	Name	Reap	RA	nty	RRF	wtdvol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.70e3	0.58	NO	0.8583	1.000	26.54	1.000	0.212	88.2	0.0247	0.212
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0282	1.12
3	1,2,3,4,7,8-HxCDD	5.02e3	1.27	NO	1.0324	1.000	34.86	1.000	1.12	69.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	6.14e3	1.30	NO	0.8065	1.000	35.25	1.000	1.10	86.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8839	1.000	36.70	1.000	1.09	87.2	0.0506	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.70	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.323	89.1	0.0142	0.222
9	1,2,3,7,8-PeCDF	1.46e4	1.51	NO	0.8925	1.000	30.20	1.000	1.09	67.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	6.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8052	1.000	34.11	1.001	1.12	88.2	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0379	1.10
14	1,2,3,7,8,9-HxCDF	7.46e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HxCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.02	81.8	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.43e8	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0682	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8450	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0187	1.000	34.95	1.017	108	108	0.243	



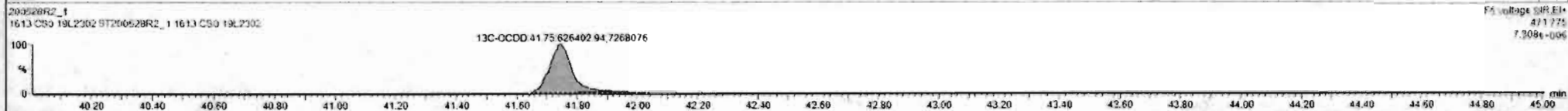
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Name: 200528R2_1, Date: 28-May-2020, Time: 11:53:52, ID: ST200528R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



#	Name	Resp	RA	nHy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.70e3	0.68	NO	0.8863	1.000	26.54	1.000	0.212	85.2	0.0247	0.213
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3	1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0334	1.000	34.06	1.000	1.12	89.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8523	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8205	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9138	1.000	41.78	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0142	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9346	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	8.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.03	86.2	0.0369	1.03
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8552	1.000	34.11	1.001	1.12	89.3	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0379	1.10
14	1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.02	81.8	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.43e6	0.80	NO	1.1563	1.000	28.54	1.026	111	111	0.0682	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	8.95e5	1.27	NO	0.7750	1.000	34.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0187	1.000	34.95	1.017	108	108	0.243	



Custom Reporting: Select reports to generate

200528R2_1

CAP NUM

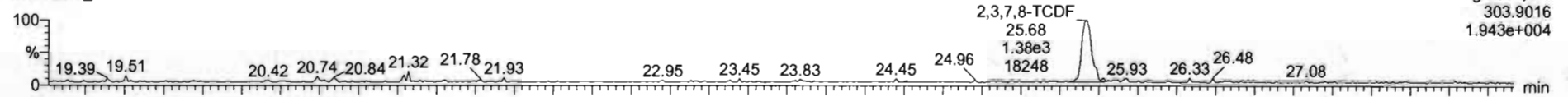
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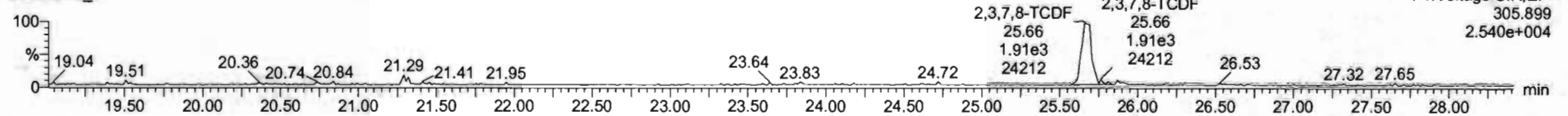
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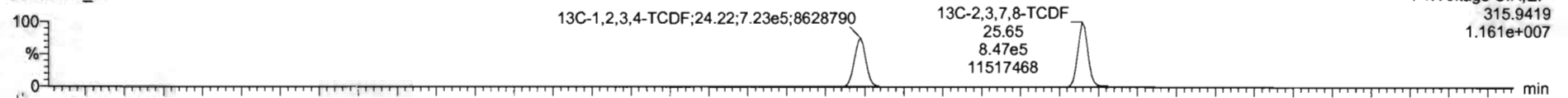


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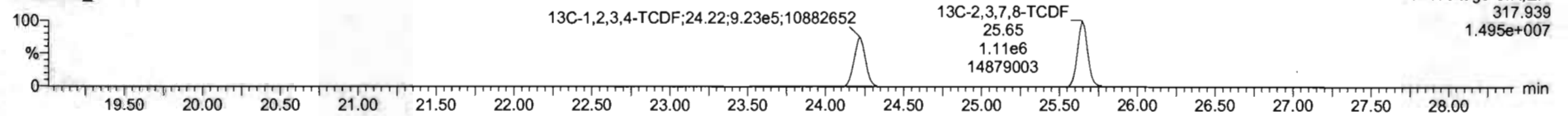


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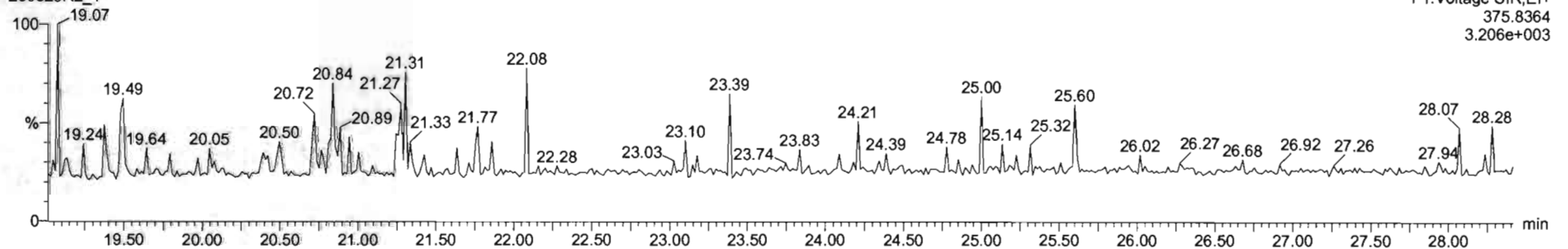


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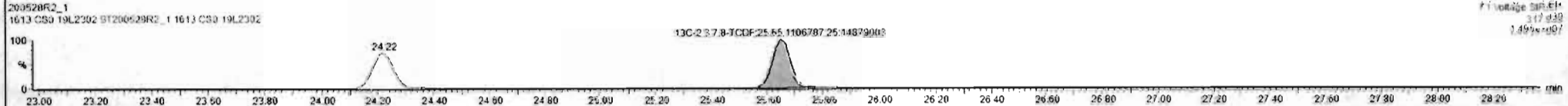
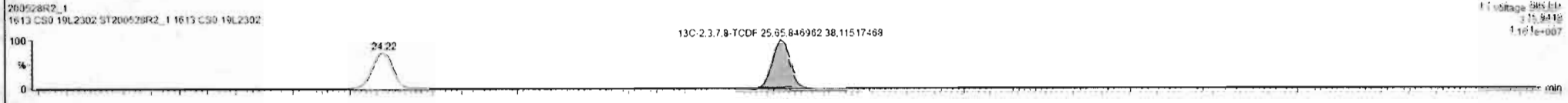
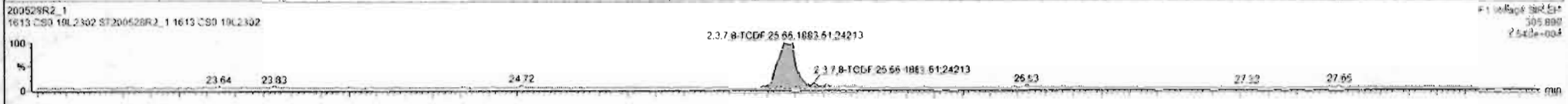
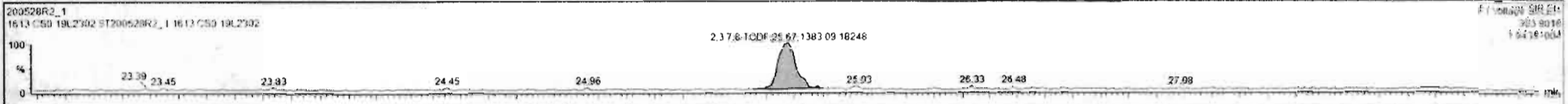


DPE1

200528R2_1



#	Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.70e3	0.68	NO	0.8883	1.000	26.54	1.000	0.212	95.2	0.0247	0.212
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	21.50	1.000	1.12	90.6	0.0292	1.12
3	1,2,3,4,7,8-HxCDD	8.03e2	1.27	NO	1.0334	1.000	34.96	1.000	1.12	89.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.13	89.7	0.0465	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8865	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0140	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	20.20	1.006	1.09	87.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	8.95e3	1.25	NO	0.8845	1.000	33.99	1.001	1.03	86.2	0.0369	1.03
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8862	1.000	34.11	1.001	1.12	89.3	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14	1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0624	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0126	1.000	39.33	1.001	1.02	61.6	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.23	92.4	0.0409	2.23
18	13C-2,3,7,8-TCDD	1.42e6	0.80	NO	1.1583	1.000	26.54	1.026	111	111	0.0682	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	34.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	168	168	0.243	



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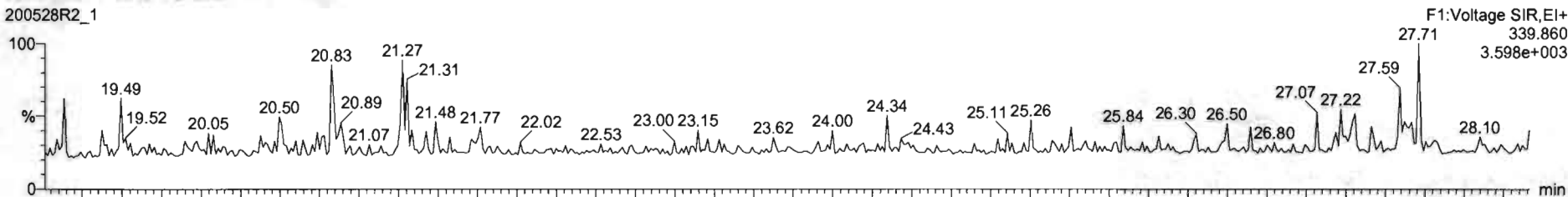
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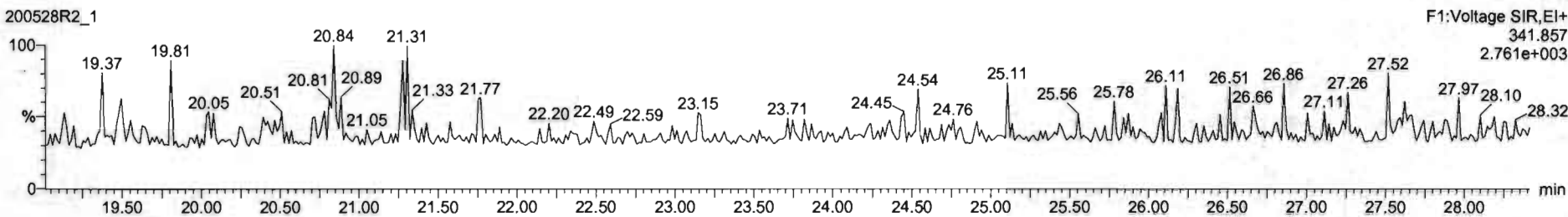
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1st Func. Penta-Furans

200528R2_1

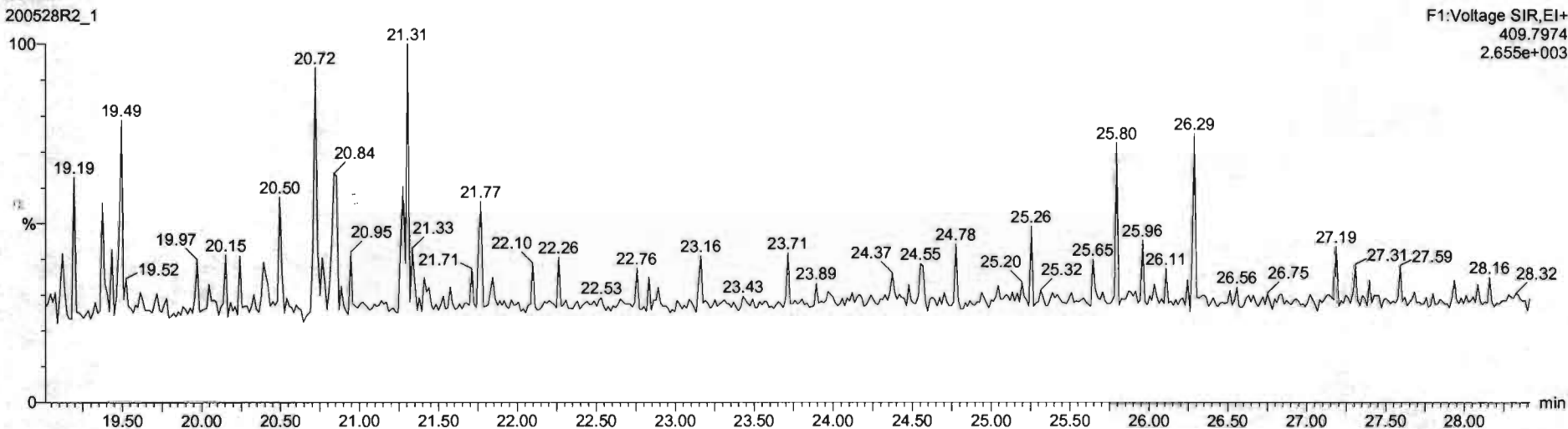


200528R2_1



DPE6

200528R2_1



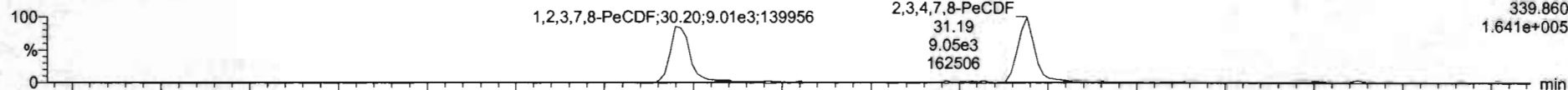
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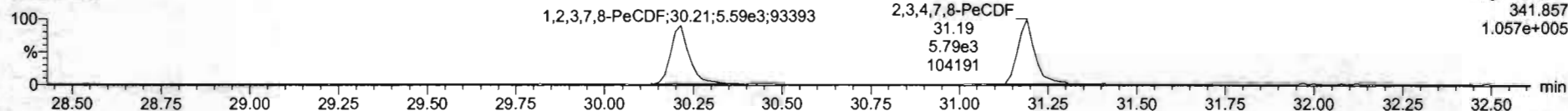
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1,2,3,7,8-PeCDF

200528R2_1

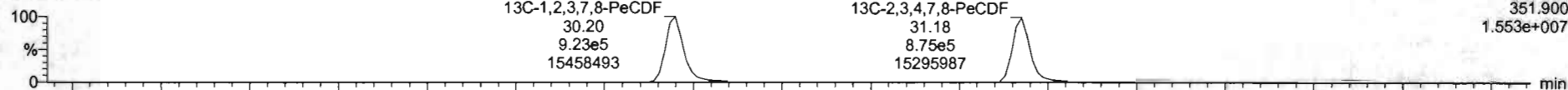


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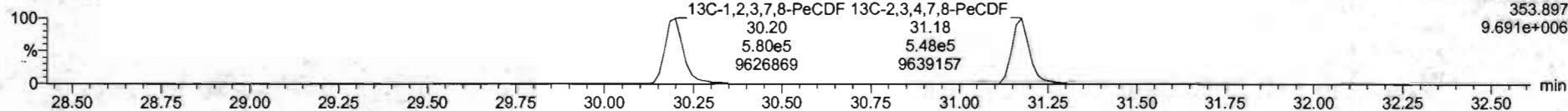


13C-1,2,3,7,8-PeCDF

200528R2_1

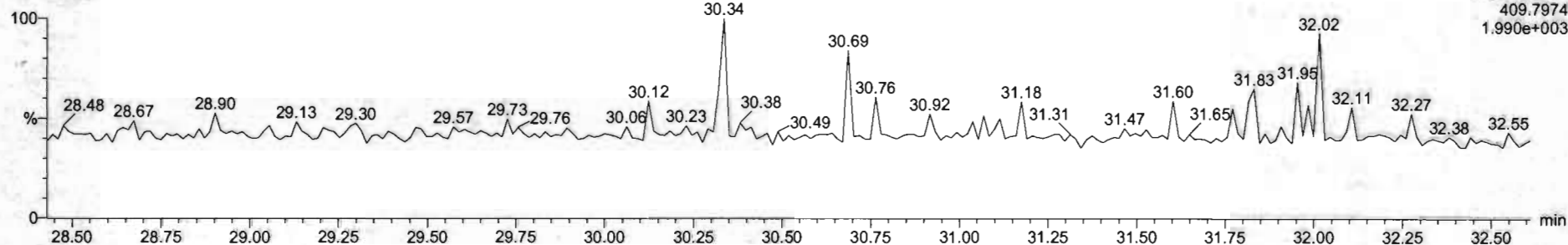


200528R2_1



DPE2

200528R2_1



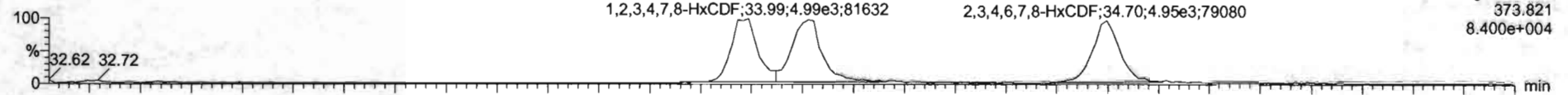
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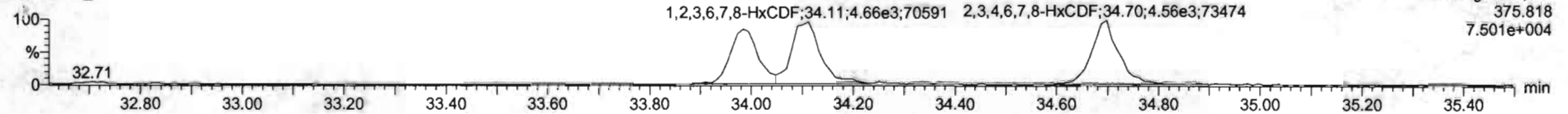
1,2,3,4,7,8-HxCDF

200528R2_1



F3:Voltage SIR,EI+
373.821
8.400e+004

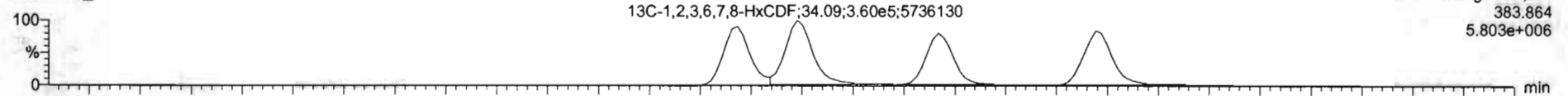
200528R2_1



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7.501e+004

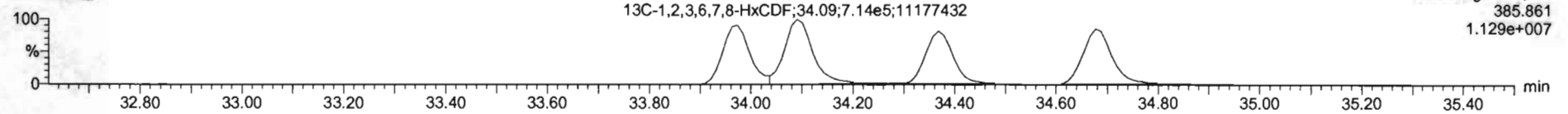
13C-1,2,3,4,7,8-HxCDF

200528R2_1



F3:Voltage SIR,EI+
383.864
5.803e+006

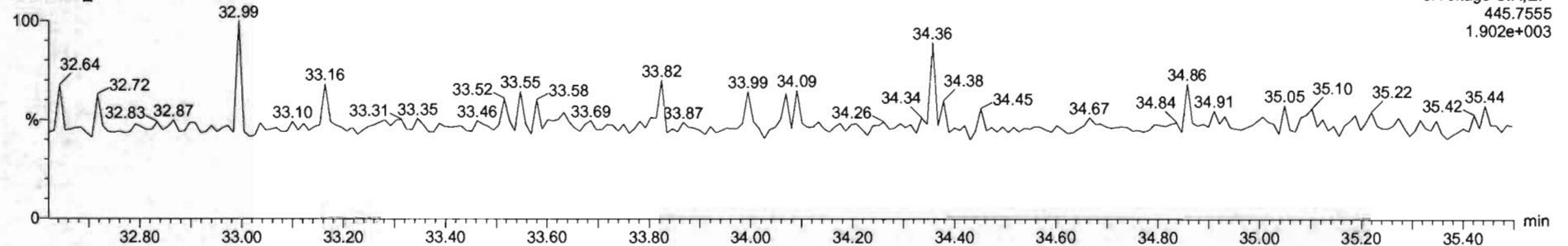
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385.861
1.129e+007

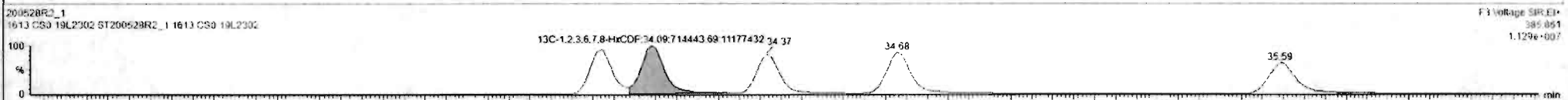
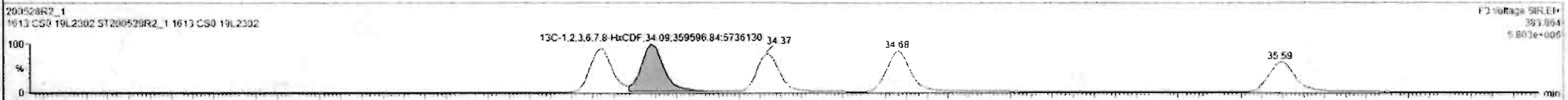
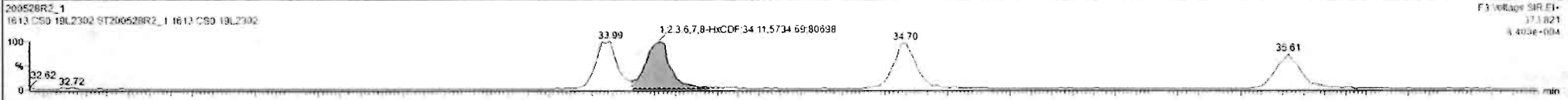
DPE3

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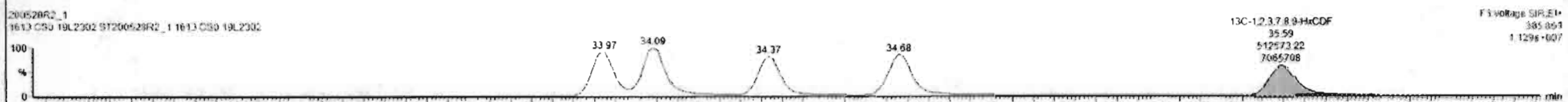
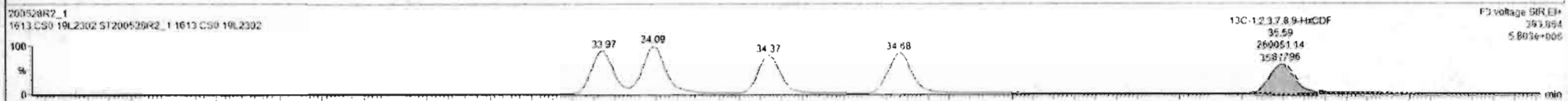


F3:Voltage SIR,EI+
445.7555
1.902e+003

Name	Resp	RA	inj	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.70e3	0.58	NO	0.8883	1.000	26.54	1.000	0.213	85.2	0.0247	0.213
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.6051	1.000	31.50	1.000	1.12	90.0	0.0292	1.12
3 1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0324	1.000	24.86	1.000	1.12	89.4	0.0426	1.12
4 1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5 1,2,3,7,8,9-HxCDD	5.14e3	1.20	NO	0.8265	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6 1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	38.78	1.000	1.09	87.2	0.0566	1.09
7 OCDD	1.23e4	0.85	NO	0.9126	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8 2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	26.67	1.001	0.223	89.1	0.0147	0.223
9 1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0709	1.09
10 2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11 1,2,3,4,7,8-HxCDF	6.56e3	1.25	NO	0.8845	1.000	33.99	1.001	1.05	86.2	0.0369	1.08
12 1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8082	1.000	34.11	1.001	1.12	89.3	0.0334	1.12
13 2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14 1,2,3,7,8,9-HxCDF	7.46e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15 1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16 1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.62	61.8	0.0523	1.02
17 OCDF	1.27e4	0.87	NO	0.8085	1.000	41.96	1.009	2.33	93.4	0.0409	2.33
18 13C-2,3,7,8-TCDD	1.43e6	0.30	NO	1.1563	1.000	26.54	1.026	111	111	0.0682	
19 13C-1,2,3,7,8-PeCDD	1.08e6	0.64	NO	0.8460	1.000	31.48	1.216	107	107	0.135	
20 13C-1,2,3,4,7,8-HxCDD	6.95e6	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.318	
21 13C-1,2,3,6,7,8-HxCDD	9.27e6	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	



#	Name	Resp	RA	ntf	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.76e3	0.68	NO	0.8883	1.000	26.54	1.000	0.213	95.2	0.0247	0.213
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.55	1.000	1.12	96.0	0.0292	1.12
3	1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0334	1.000	24.96	1.000	1.12	89.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8523	1.000	24.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8265	1.000	25.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.16e3	0.99	NO	0.8630	1.000	26.72	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.225	89.1	0.0142	0.225
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8325	1.000	20.20	1.000	1.09	87.1	0.0265	1.09
10	1,2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9346	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8,9-HxCDF	6.98e3	1.25	NO	0.8545	1.000	23.95	1.001	1.08	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8252	1.000	24.11	1.001	1.12	89.3	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	24.70	1.001	1.10	88.3	0.0279	1.10
14	1,2,3,7,8,9-HxCDF	7.46e3	1.19	NO	0.8707	1.000	25.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	27.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0126	1.000	20.33	1.001	1.02	81.6	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.42e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0832	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	24.95	1.017	108	108	0.243	



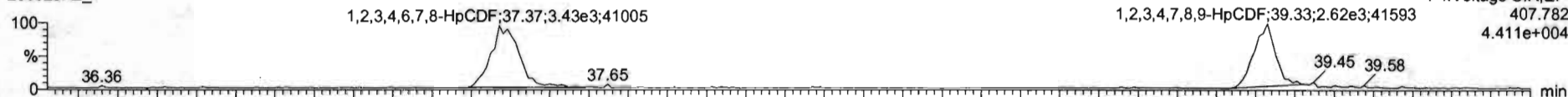
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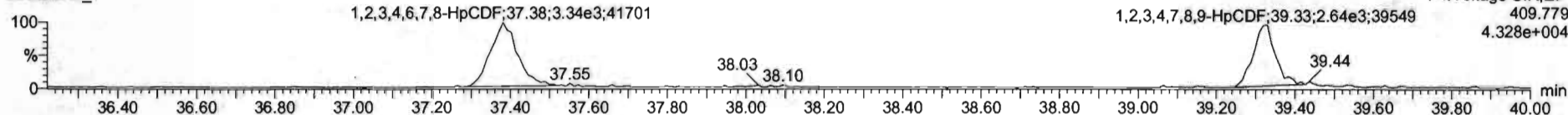
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1,2,3,4,6,7,8-HpCDF

200528R2_1

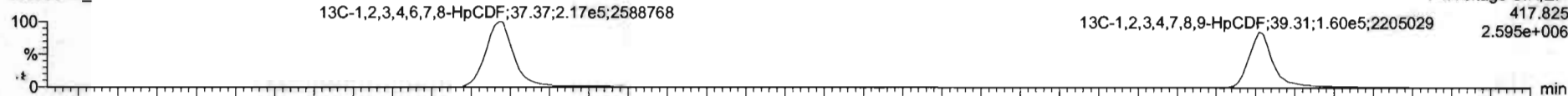


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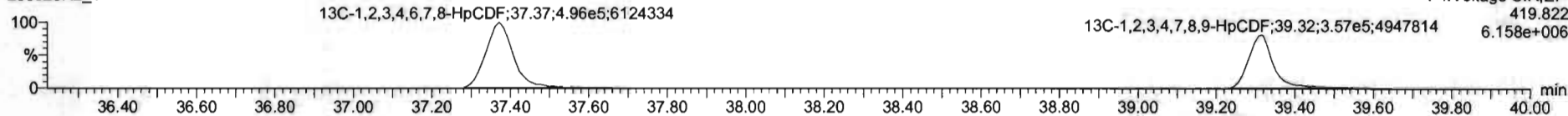


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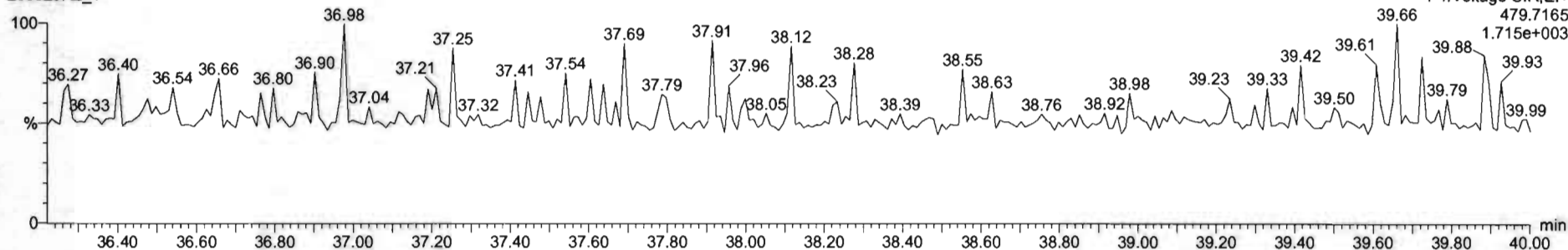


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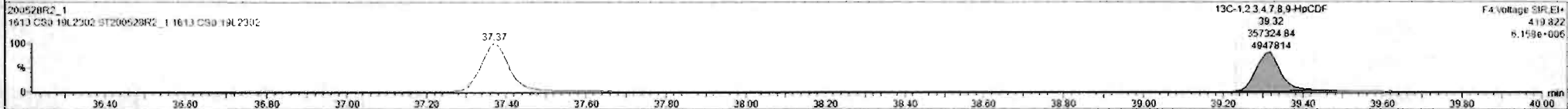
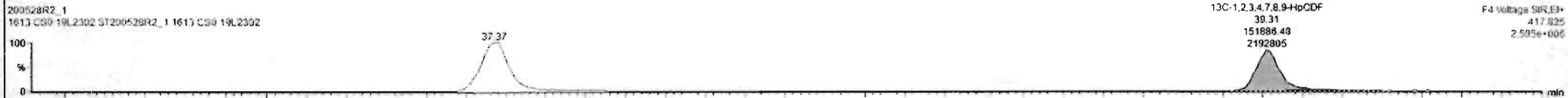
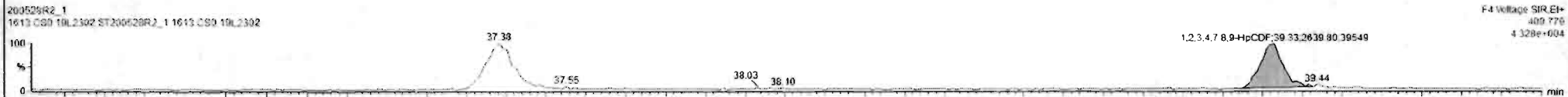


CPE4

200528R2_1



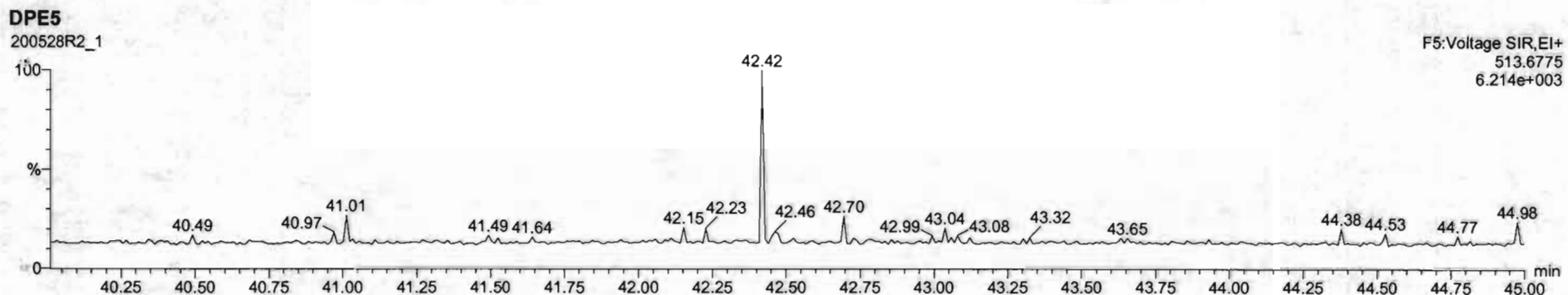
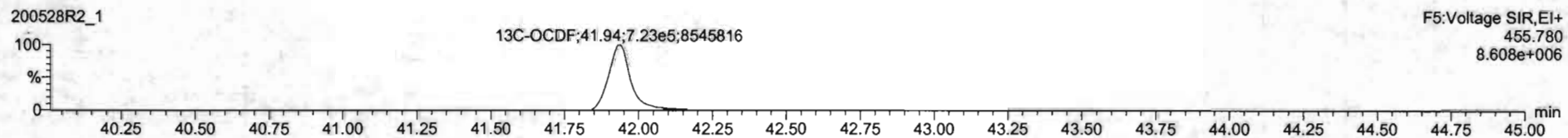
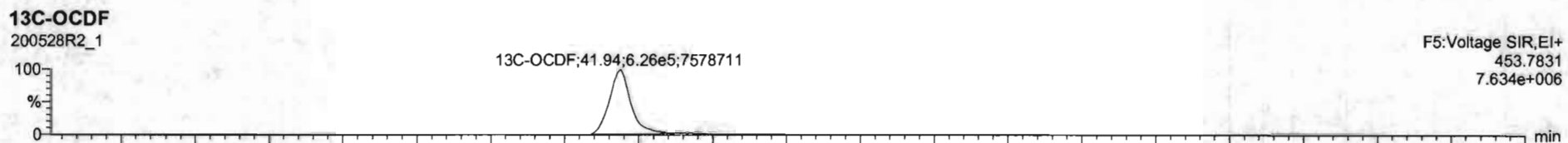
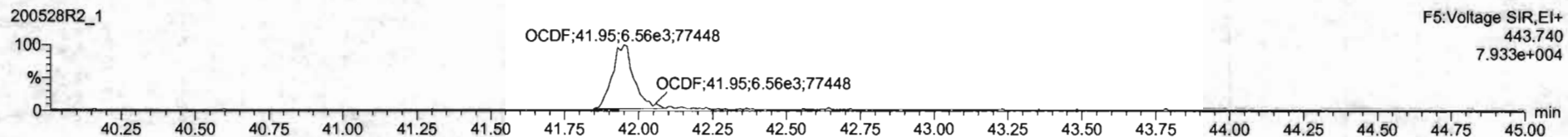
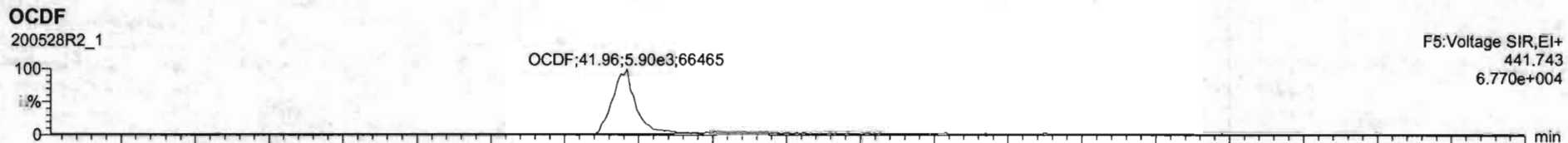
Name	Reap	RA	nBy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.79e3	0.68	NO	0.8883	1.000	26.54	1.000	0.213	85.2	0.0247	0.213
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.6081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3 1,2,3,4,7,8-HxCDD	8.02e3	1.27	NO	1.0334	1.000	34.86	1.000	1.12	89.4	0.0426	1.12
4 1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5 1,2,3,7,8,9-HxCDF	8.14e3	1.20	NO	0.8269	1.000	35.25	1.000	1.10	88.1	0.0404	1.10
6 1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7 OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.0	0.0470	2.27
8 2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.87	1.001	0.223	89.1	0.0142	0.223
9 1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0269	1.09
10 2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9346	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11 1,2,3,4,7,8-HxCDF	6.98e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12 1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8852	1.000	34.11	1.001	1.12	89.0	0.0334	1.12
13 2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14 1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8797	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15 1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	88.9	0.0524	1.09
16 1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0126	1.000	39.35	1.001	1.02	81.6	0.0523	1.02
17 OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	92.4	0.0409	2.33
18 13C-2,3,7,8-TCDD	1.42e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0682	
19 13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20 13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	34.85	1.014	106	106	0.218	
21 13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	



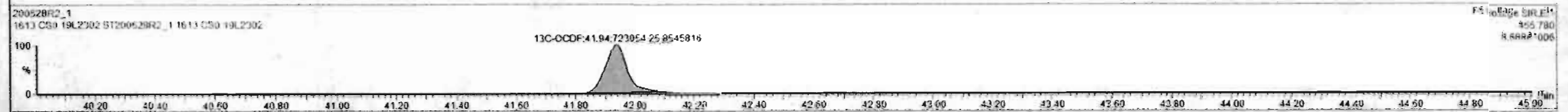
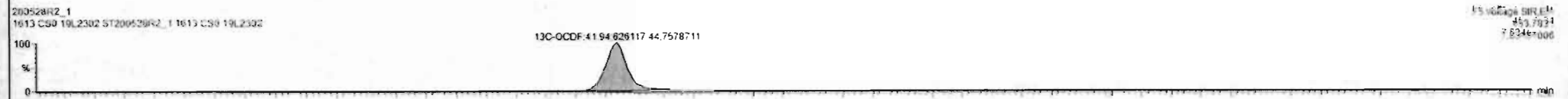
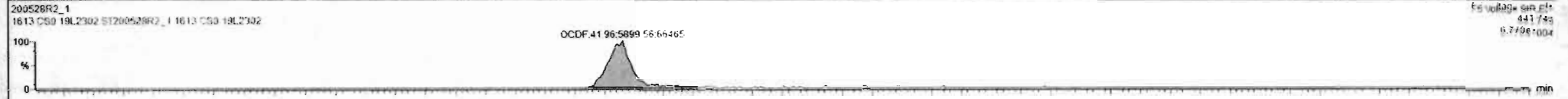
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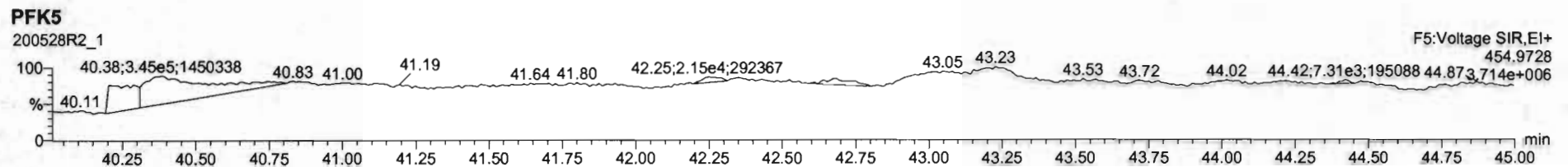
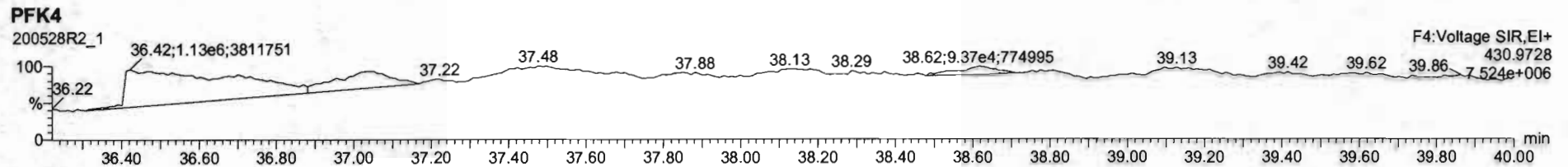
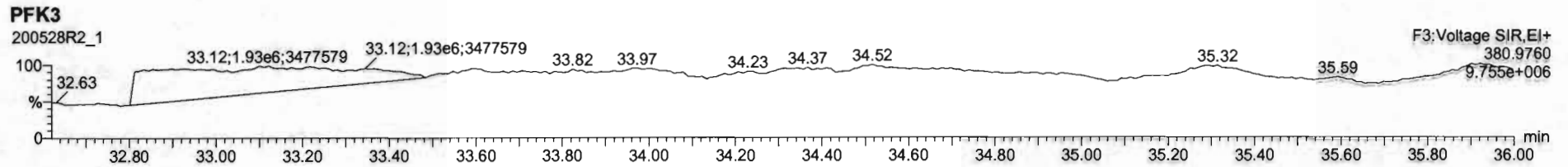
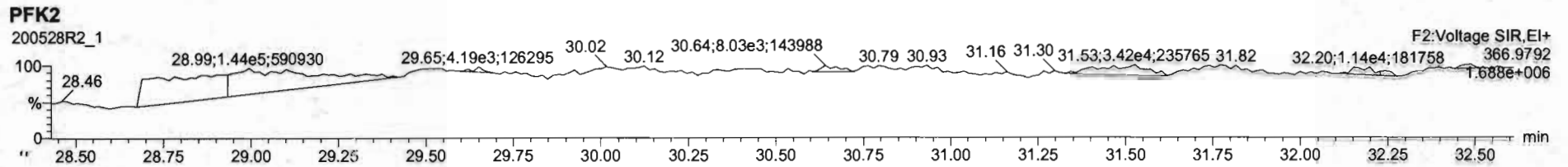
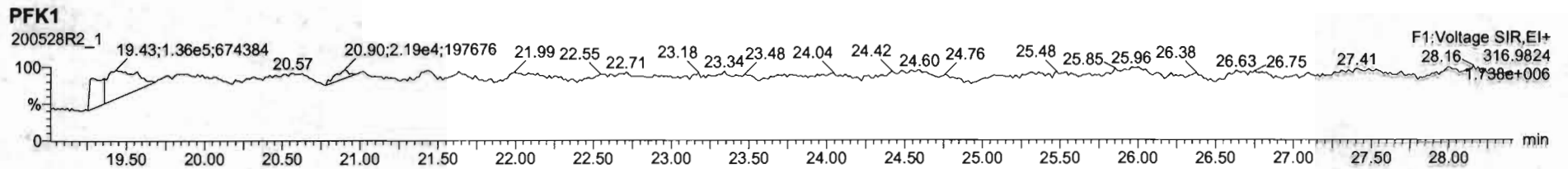
Name	Resp	RA	aly	RRF	wtWt	RT	RRT	Conc	%Rec	QL	EMPC
1 2,3,7,8-TCDD	2.70e3	0.98	NO	0.8803	1.000	26.54	1.000	0.212	85.7	0.0247	0.212
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9041	1.000	31.60	1.000	1.12	90.0	0.0202	1.12
3 1,2,3,4,7,8-HxCDD	0.03e3	1.27	NO	1.0324	1.000	34.86	1.000	1.12	89.4	0.042E	1.12
4 1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.9523	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5 1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.9205	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6 1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.056E	1.09
7 OCDD	1.23e4	0.88	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8 2,3,7,8-TCDF	3.27e3	0.75	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0142	0.223
9 1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0269	1.09
10 2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11 1,2,3,4,7,8-HxCDF	6.98e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12 1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8892	1.000	24.11	1.001	1.12	89.7	0.0334	1.12
13 2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14 1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15 1,2,3,4,5,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16 1,2,3,4,7,8,9-HpCDF	5.26e3	0.95	NO	1.0126	1.000	39.33	1.001	1.02	81.6	0.0523	1.02
17 OCDF	1.27e4	0.87	NO	0.8685	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18 13C-2,3,7,8-TCDD	1.43e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0632	
19 13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20 13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.218	
21 13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	



Dataset: Untitled

Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_1, Date: 28-May-2020, Time: 11:53:52, ID: ST200528R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



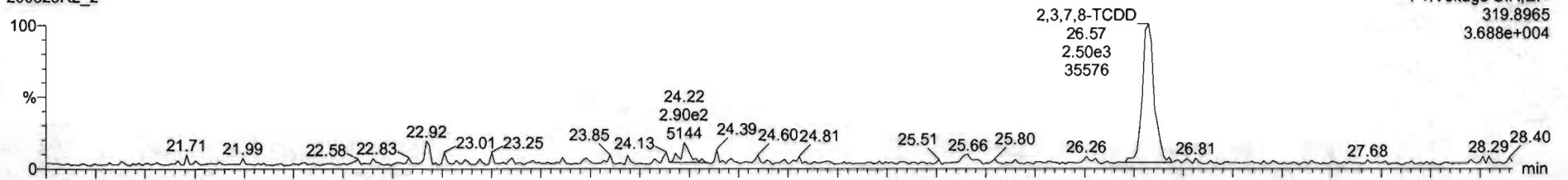
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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

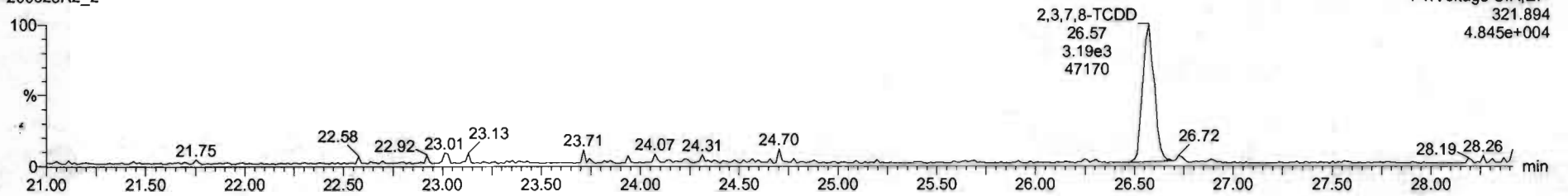
2,3,7,8-TCDD

200528R2_2



F1:Voltage SIR,EI+
319.8965
3.688e+004

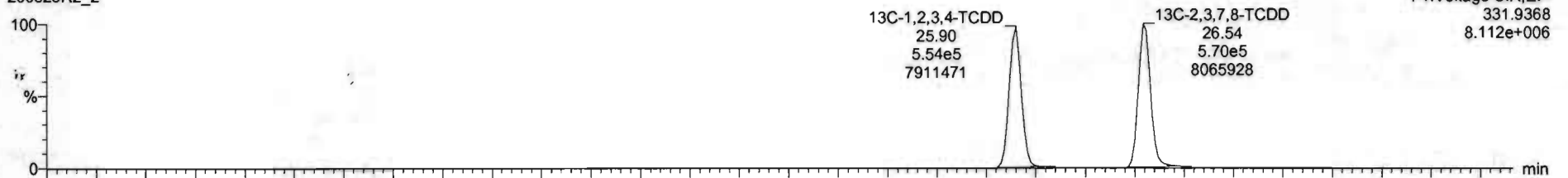
200528R2_2



F1:Voltage SIR,EI+
321.894
4.845e+004

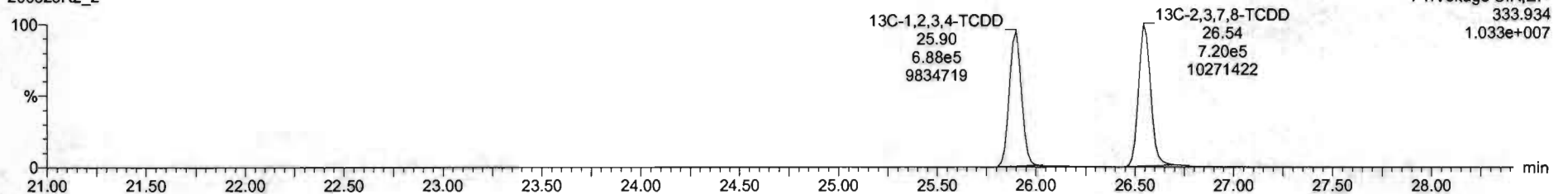
13C-2,3,7,8-TCDD

200528R2_2



F1:Voltage SIR,EI+
331.9368
8.112e+006

200528R2_2



F1:Voltage SIR,EI+
333.934
1.033e+007

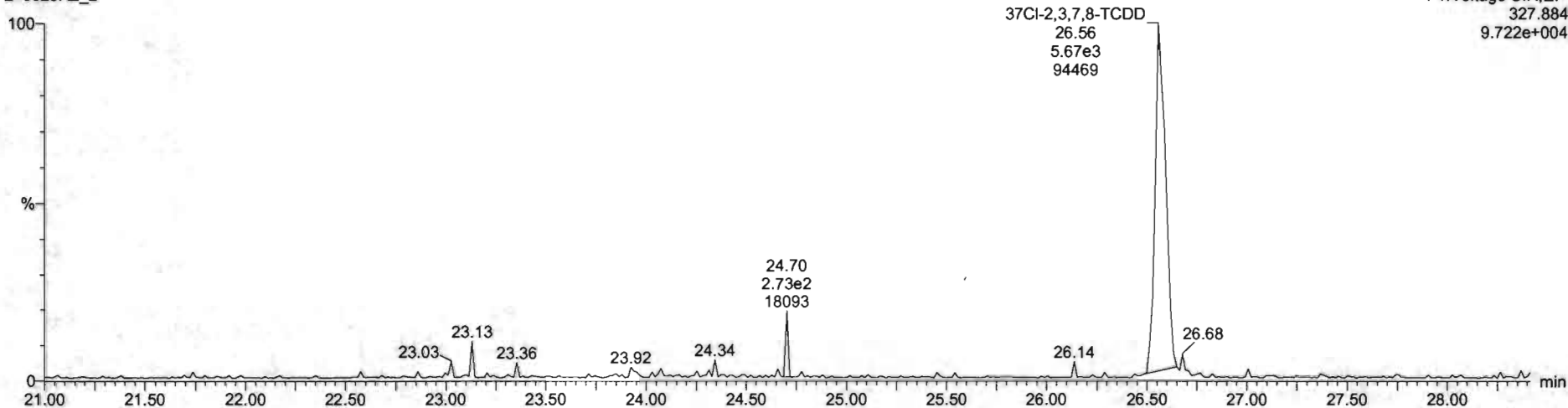
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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

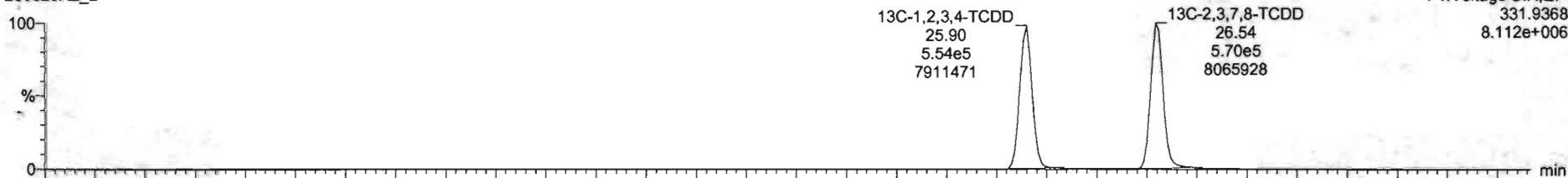
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200528R2_2

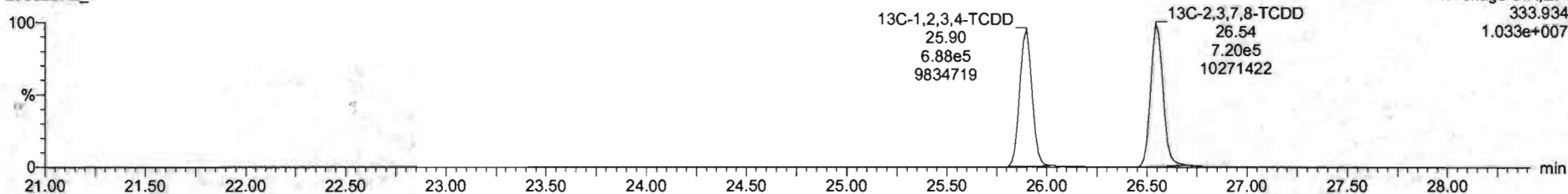


13C-1,2,3,4-TCDD

200528R2_2



200528R2_2



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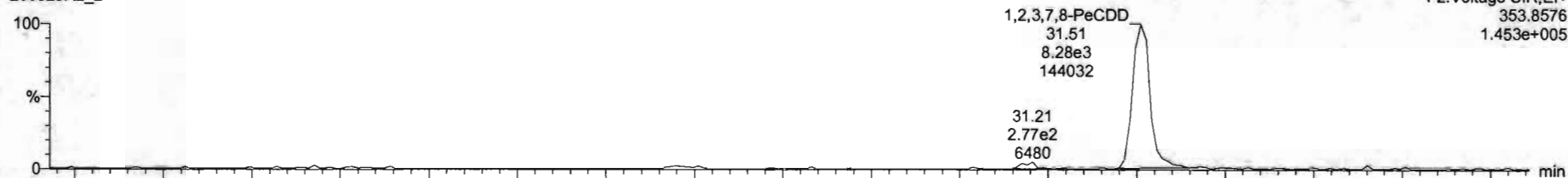
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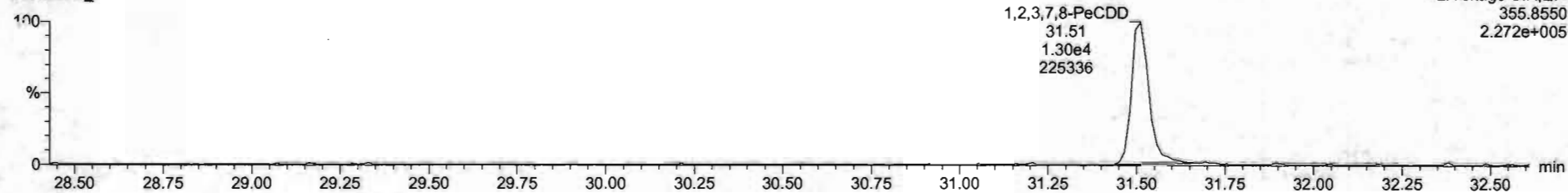
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1,2,3,7,8-PeCDD

200528R2_2

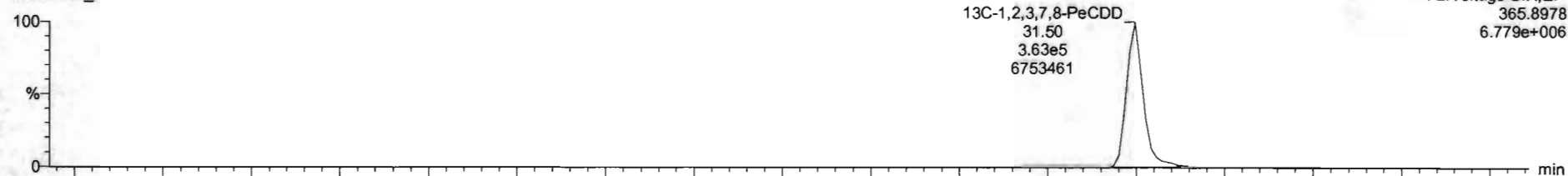


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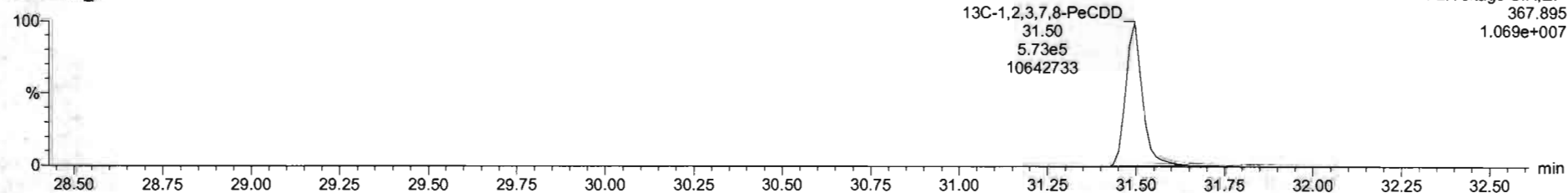


13C-1,2,3,7,8-PeCDD

200528R2_2



200528R2_2



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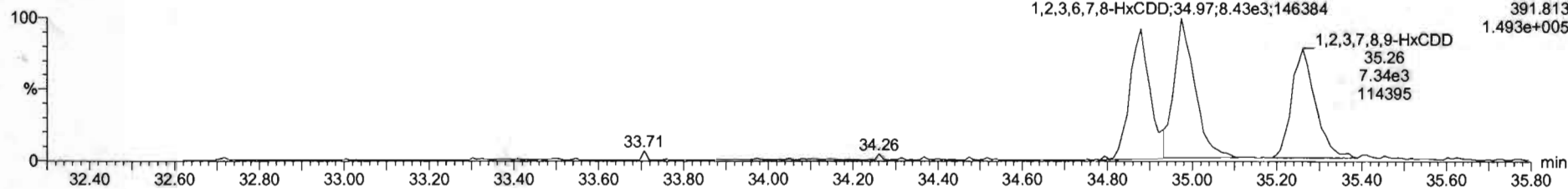
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1,2,3,4,7,8-HxCDD

200528R2_2



200528R2_2

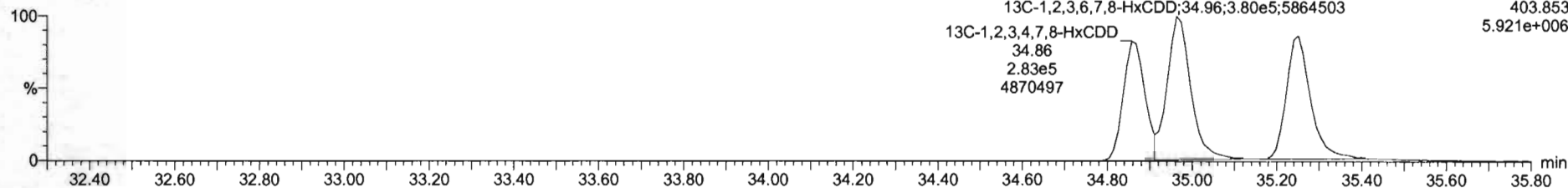


13C-1,2,3,4,7,8-HxCDD

200528R2_2



200528R2_2



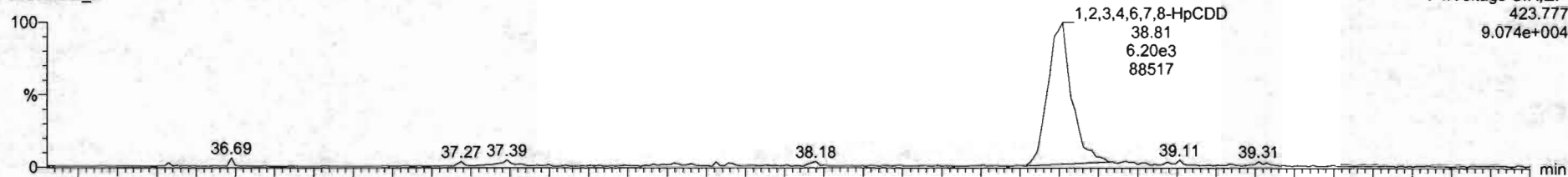
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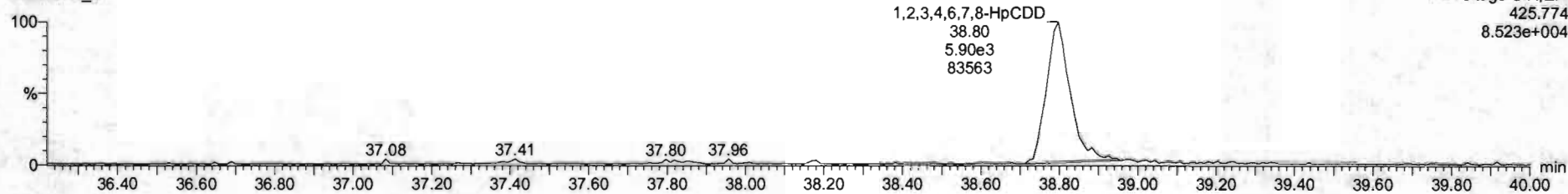
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1,2,3,4,6,7,8-HpCDD

200528R2_2

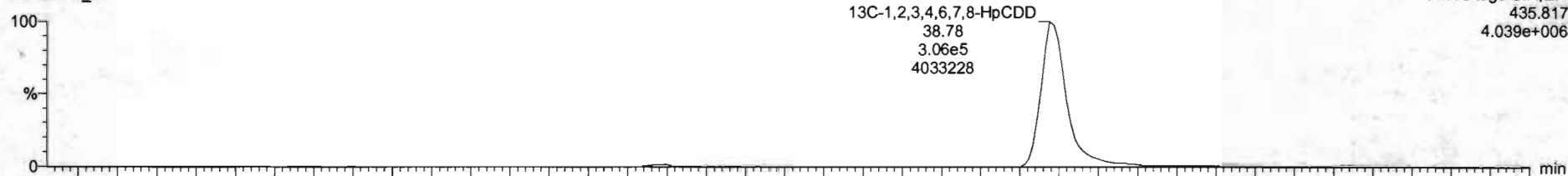


200528R2_2

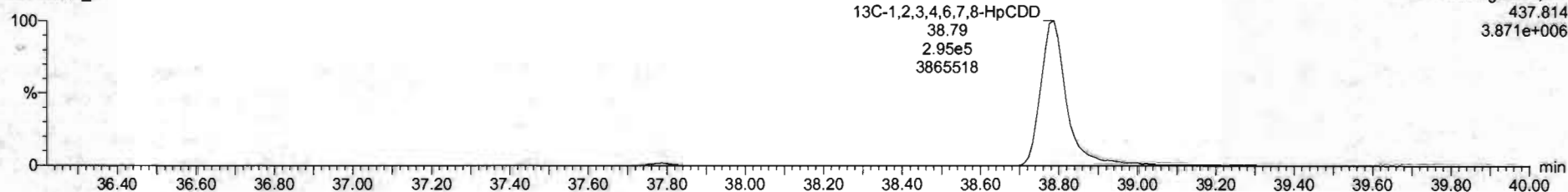


13C-1,2,3,4,6,7,8-HpCDD

200528R2_2



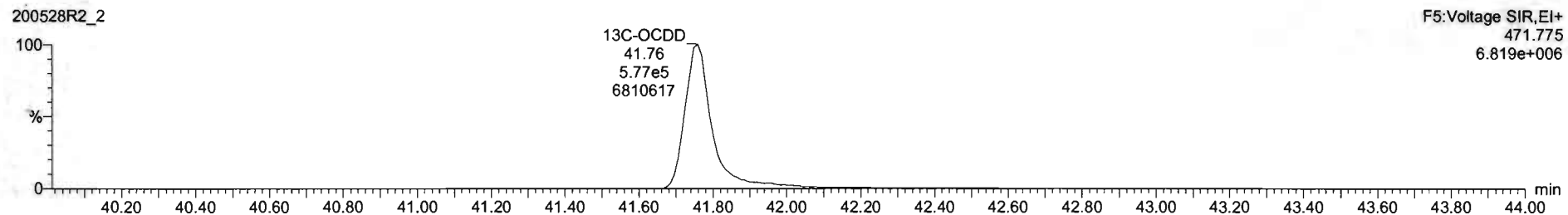
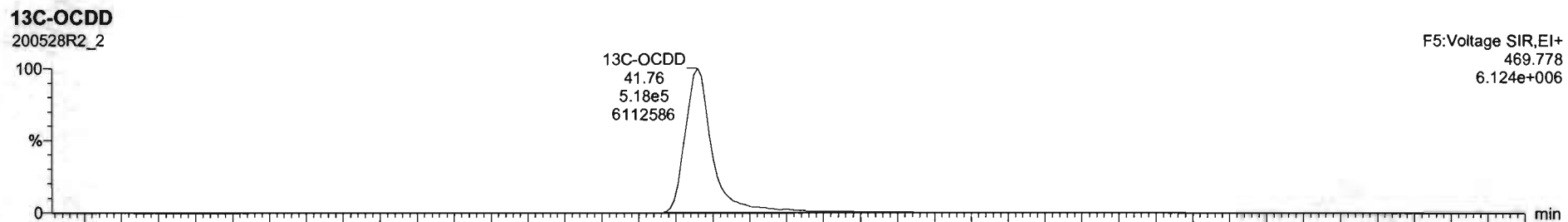
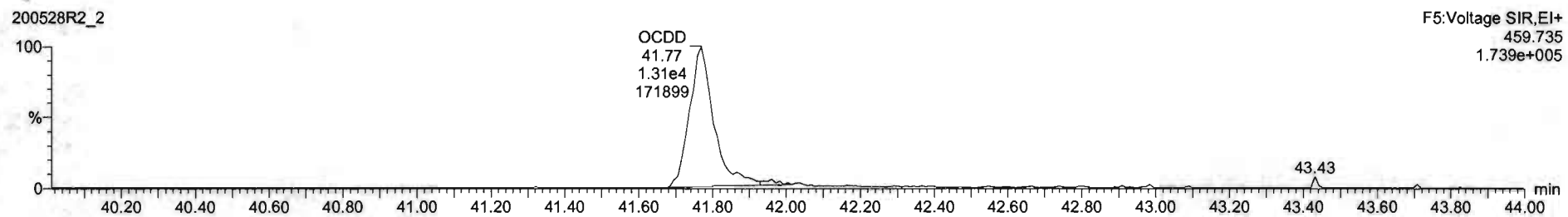
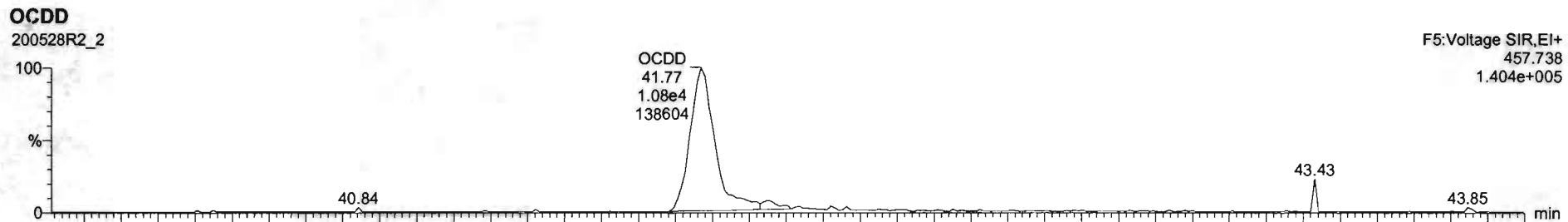
200528R2_2



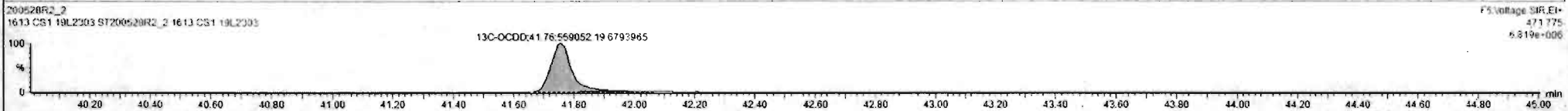
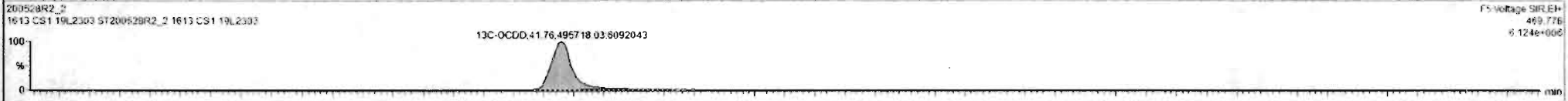
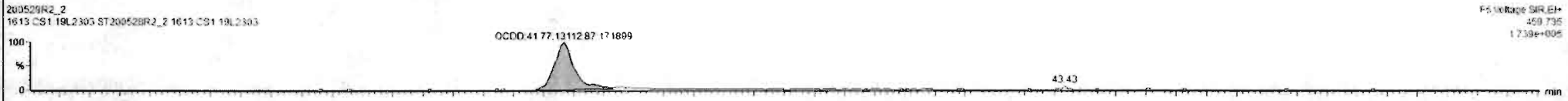
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303



Name	Resp	RA	nJY	RRF	wIvol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.69e3	0.78	NO	0.8883	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2 1,2,3,7,8-PeCDD	2.12e4	0.84	NO	0.9081	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3 1,2,3,4,7,8-HxCDD	1.69e4	1.27	NO	1.0324	1.000	34.86	1.000	2.53	101	0.0774	2.53
4 1,2,3,6,7,8-HxCDD	1.50e4	1.25	NO	0.8923	1.000	34.99	1.001	2.47	98.5	0.0747	2.47
5 1,2,3,7,8,9-HxCDD	1.62e4	1.21	NO	0.8865	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6 1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8639	1.000	36.61	1.001	2.33	93.3	0.0613	2.33
7 OCDD	2.39e4	0.83	NO	0.9136	1.000	41.77	1.000	4.97	98.4	0.149	4.97
8 2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.463	97.7	0.0670	0.468
9 1,2,3,7,8-PeCDF	3.08e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10 2,3,4,7,8-PeCDF	3.19e4	1.55	NO	0.9348	1.000	31.21	1.000	2.52	101	0.0395	2.52
11 1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8545	1.000	33.99	1.000	2.41	96.3	0.0665	2.41
12 1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.8892	1.000	34.12	1.000	2.50	100	0.0642	2.50
13 2,3,4,6,7,8-HxCDF	1.93e4	1.26	NO	0.9241	1.000	34.71	1.001	2.38	96.3	0.0702	2.38
14 1,2,3,7,8,9-HxCDF	1.48e4	1.12	NO	0.8707	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15 1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16 1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0128	1.000	39.32	1.000	2.33	93.3	0.0630	2.33
17 OCDF	2.40e4	0.84	NO	0.8065	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18 13C-2,3,7,8-TCDD	1.29e6	0.79	NO	1.1563	1.000	26.54	1.025	89.3	89.8	0.0928	
19 13C-1,2,3,7,8-PeCDD	9.36e5	0.83	NO	0.8490	1.000	31.50	1.216	86.7	88.7	0.113	
20 13C-1,2,3,4,7,8-HxCDD	6.46e5	1.28	NO	0.7790	1.000	34.87	1.014	85.9	85.9	0.183	
21 13C-1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0187	1.000	34.95	1.017	87.7	87.7	0.140	

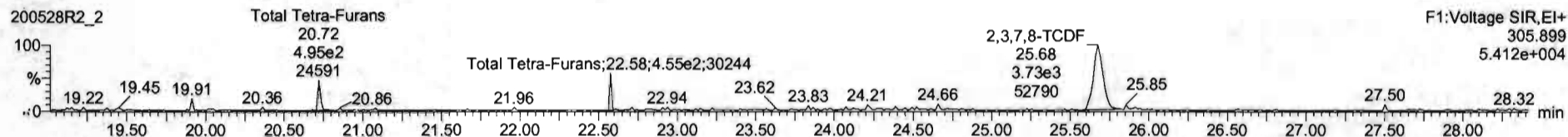
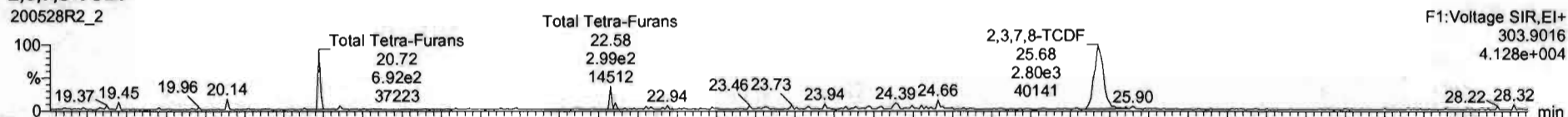


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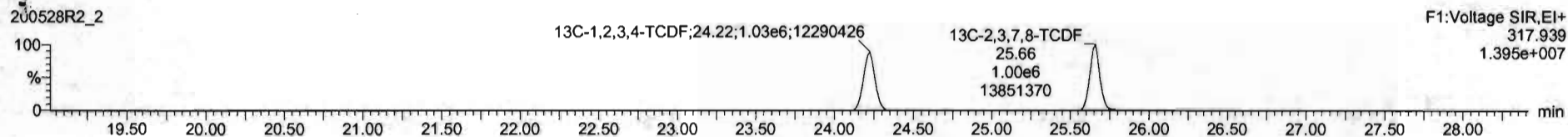
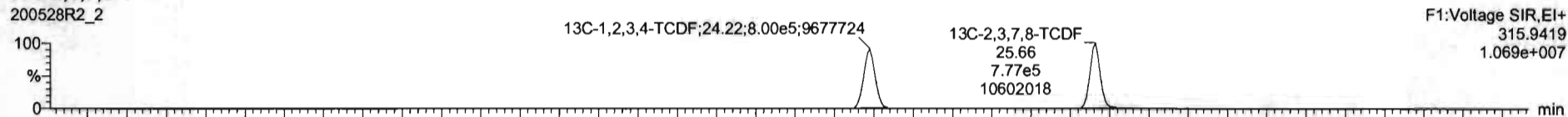
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

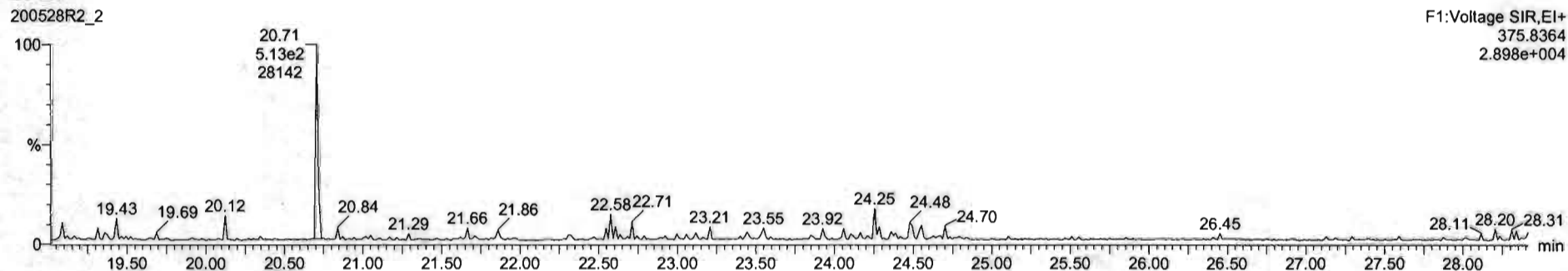
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

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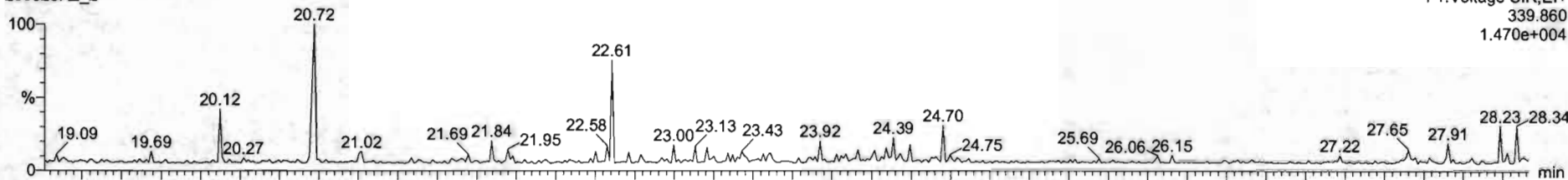
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Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

1st Func. Penta-Furans

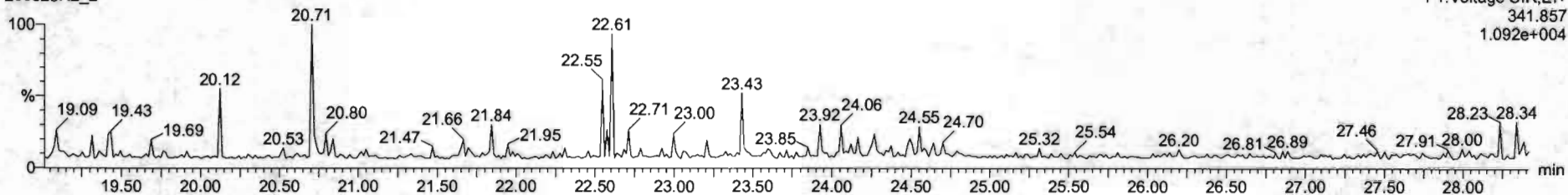
200528R2_2

F1:Voltage SIR,EI+
339.860
1.470e+004



200528R2_2

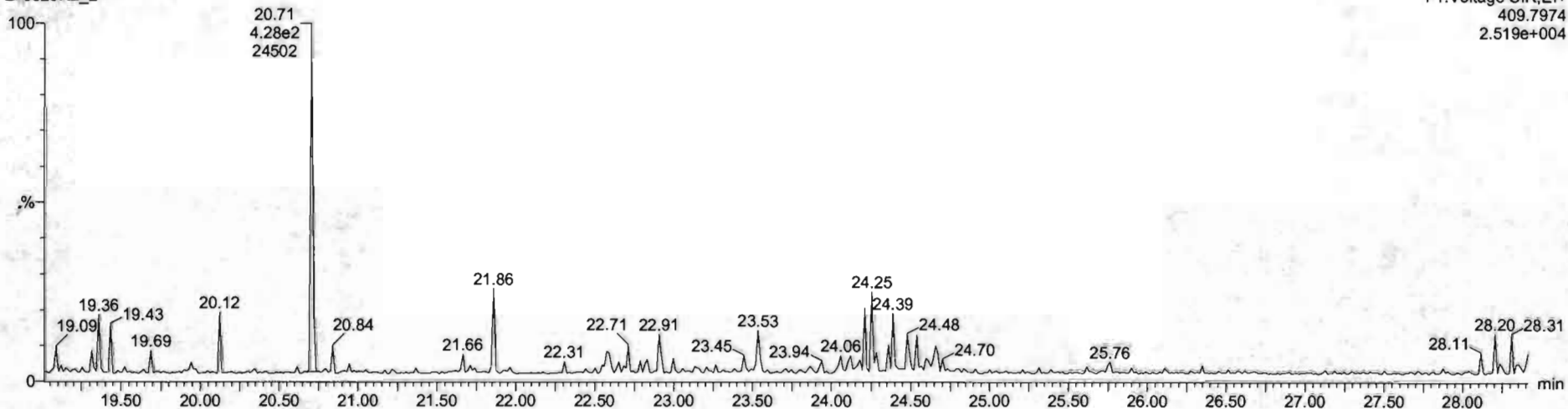
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341.857
1.092e+004



DPE6

200528R2_2

F1:Voltage SIR,EI+
409.7974
2.519e+004



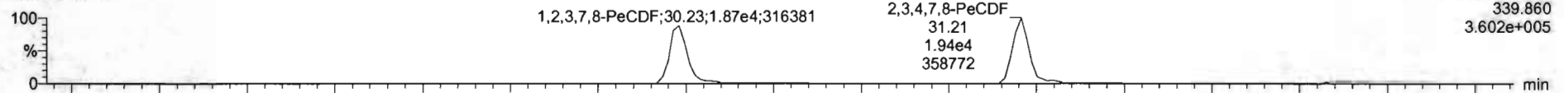
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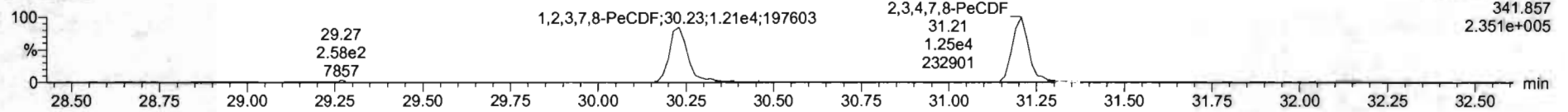
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1,2,3,7,8-PeCDF

200528R2_2

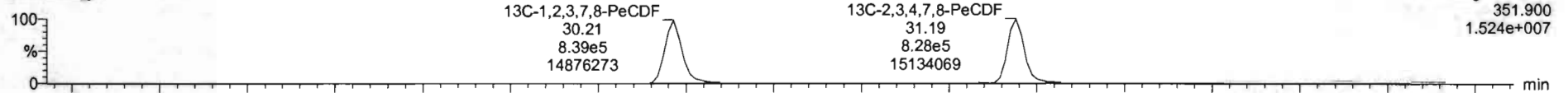


200528R2_2

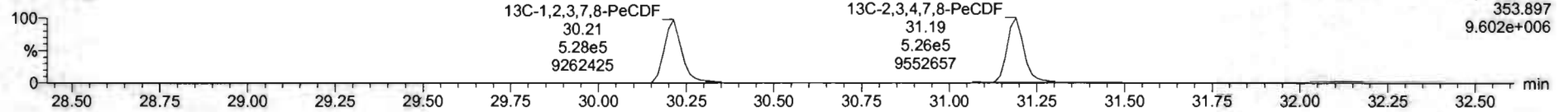


13C-1,2,3,7,8-PeCDF

200528R2_2

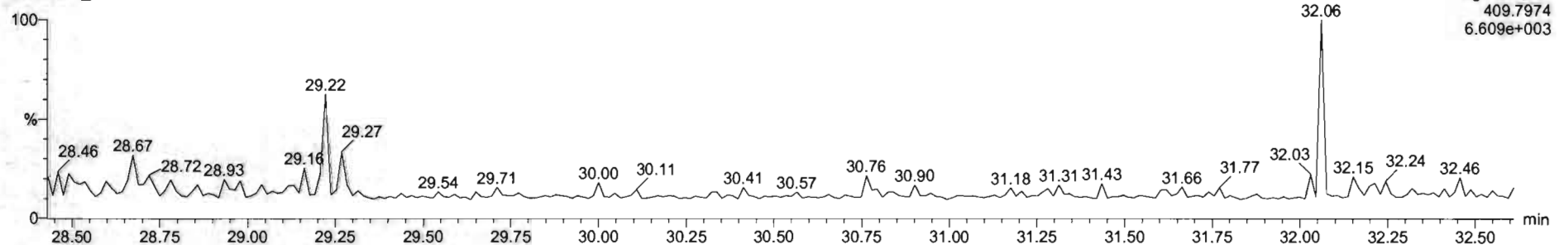


200528R2_2



DPE2

200528R2_2



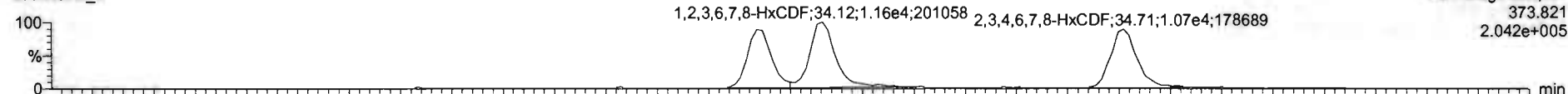
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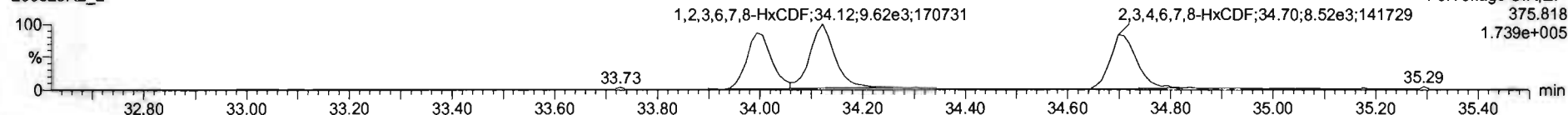
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1,2,3,4,7,8-HxCDF

200528R2_2

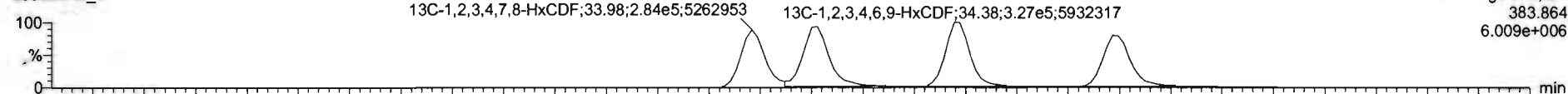


200528R2_2

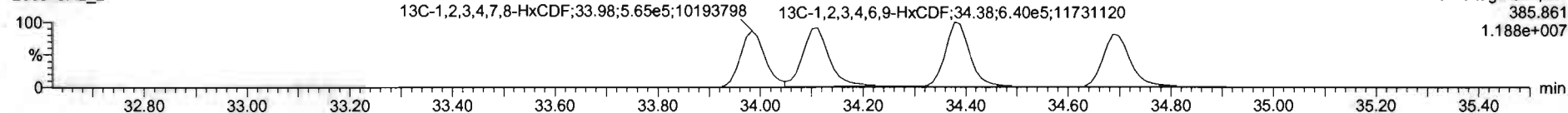


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200528R2_2

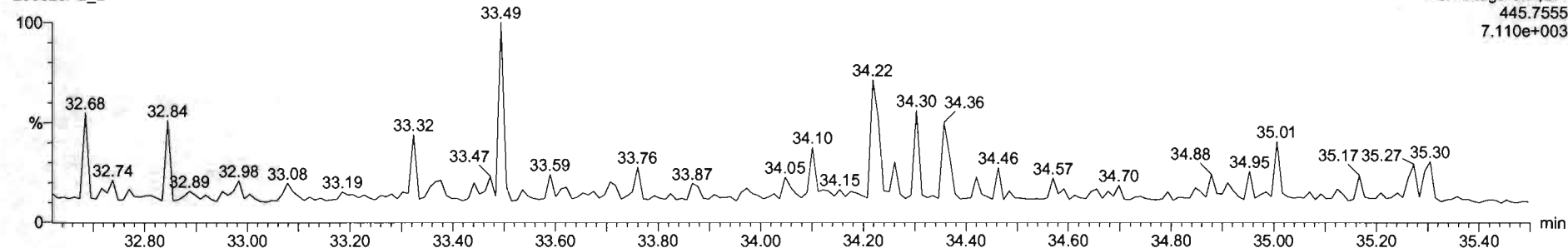


200528R2_2

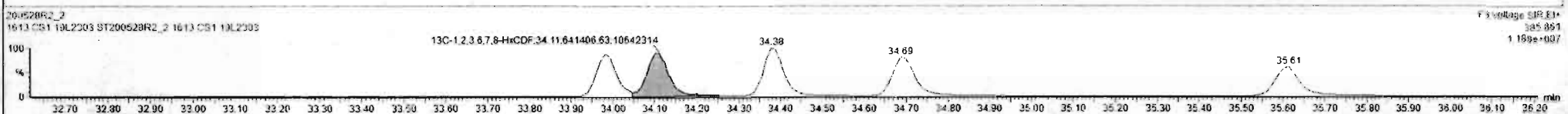
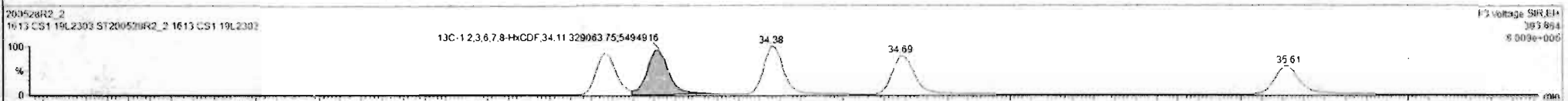


DPE3

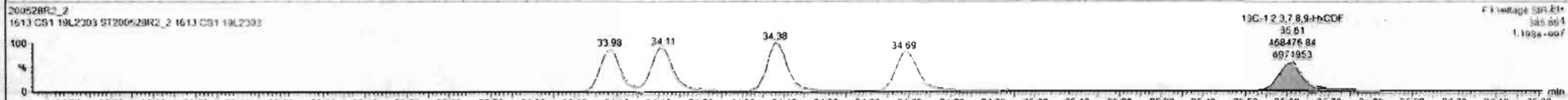
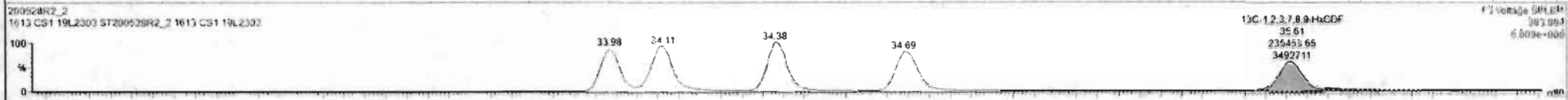
200528R2_2



#	Name	Resp	RA	nby	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.69e3	0.76	NO	0.8963	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2	1,2,3,7,8-PeCDD	2.12e4	0.64	NO	0.9051	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3	1,2,3,4,7,8-HxCDD	1.69e4	1.27	NO	1.0334	1.000	34.86	1.000	2.53	101	0.0774	2.53
4	1,2,3,6,7,8-HxCDD	1.90e4	1.25	NO	0.8979	1.000	34.99	1.001	2.47	98.5	0.0747	3.47
5	1,2,3,7,9-HxCDD	1.62e4	1.21	NO	0.8269	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6	1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8639	1.000	36.51	1.001	2.33	93.3	0.0618	2.33
7	OCDD	2.39e4	0.83	NO	0.9136	1.000	41.77	1.000	4.97	99.4	0.149	4.97
8	2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.468	97.7	0.0620	0.468
9	1,2,3,7,8-PeCDF	3.08e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10	2,3,4,7,8-PeCDF	3.19e4	1.55	NO	0.9340	1.000	31.21	1.000	2.52	101	0.0395	2.52
11	1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8545	1.000	33.99	1.000	2.41	96.3	0.0665	3.41
12	1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.6552	1.000	34.12	1.000	2.50	100	0.0542	2.50
13	2,3,4,6,7,8-HxCDF	1.93e4	1.26	NO	0.9341	1.000	34.71	1.001	2.38	95.3	0.0702	2.38
14	1,2,3,7,8,9-HxCDF	1.46e4	1.12	NO	0.8707	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15	1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16	1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0128	1.000	39.33	1.000	2.33	93.3	0.0630	2.33
17	OCDF	2.40e4	0.84	NO	0.8085	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18	1,2,3,7,8-TCDF	1.79e6	0.79	NO	1.1563	1.000	26.54	1.025	89.8	89.8	0.0928	
19	1,2,3,7,8-PeCDD	9.36e5	0.63	NO	0.8490	1.000	31.50	1.216	68.7	68.7	0.113	
20	1,2,3,4,7,8-HxCDD	6.46e5	1.28	NO	0.7750	1.000	34.87	1.014	85.9	85.9	0.183	
21	1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0187	1.000	34.96	1.017	87.7	87.7	0.140	



#	Name	Resp	RA	ntf	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.99e3	0.76	NO	0.8843	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2	1,2,3,7,8-PeCDD	2.12e4	0.84	NO	0.9051	1.000	31.51	1.000	2.50	99.3	0.0401	2.50
3	1,2,3,4,7,8-HxCDD	1.05e4	1.27	NO	1.0334	1.000	34.85	1.000	2.53	101	0.0774	2.53
4	1,2,3,6,7,8-HxCDD	1.90e4	1.25	NO	0.8973	1.000	34.99	1.001	2.47	98.5	0.0747	2.47
5	1,2,3,7,8,9-HxCDD	1.62e4	1.21	NO	0.8565	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6	1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8638	1.000	36.81	1.001	2.33	93.3	0.0618	2.33
7	OCDD	2.39e4	0.83	NO	0.9136	1.000	41.77	1.000	4.97	99.4	0.149	4.97
8	2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.468	97.7	0.0620	0.468
9	1,2,3,7,8-PeCDF	3.05e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10	2,3,4,7,8-PeCDF	0.15e4	1.55	NO	0.9346	1.000	31.21	1.000	2.52	101	0.0395	2.52
11	1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8845	1.000	33.99	1.000	2.41	96.3	0.0665	2.41
12	1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.8882	1.000	34.12	1.000	2.50	100	0.0642	2.50
13	2,3,4,6,7,8-HxCDF	1.93e4	1.26	NO	0.9341	1.000	34.71	1.001	2.36	96.3	0.0702	2.36
14	1,2,3,7,8,9-HxCDF	1.48e4	1.12	NO	0.8787	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15	1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16	1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0128	1.000	39.33	1.000	2.33	93.3	0.0630	2.33
17	OCDF	2.40e4	0.84	NO	0.8565	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18	13C-2,3,7,8-TCDD	1.29e6	0.79	NO	1.1562	1.000	26.54	1.025	89.8	89.8	0.0528	
19	13C-1,2,3,7,8-PeCDD	9.36e5	0.63	NO	0.8490	1.000	31.50	1.216	88.7	88.7	0.113	
20	13C-1,2,3,4,7,8-HxCDD	6.46e5	1.28	NO	0.7750	1.000	34.87	1.014	85.9	85.9	0.183	
21	13C-1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0157	1.000	34.96	1.017	87.7	87.7	0.140	



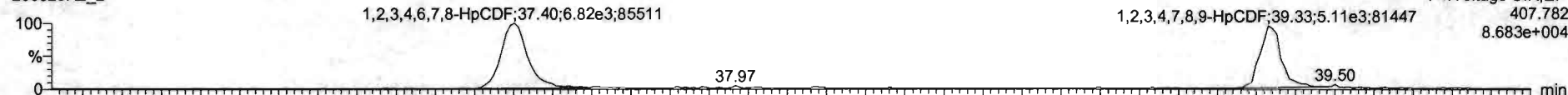
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

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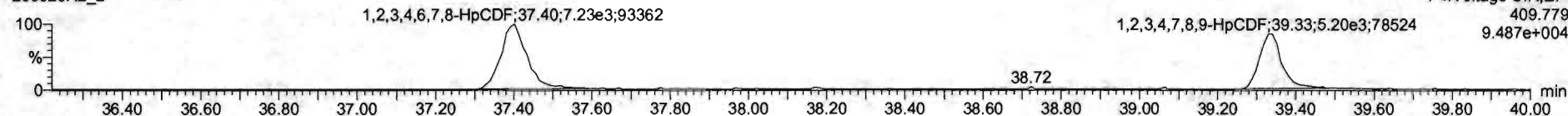
1,2,3,4,6,7,8-HpCDF

200528R2_2



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8.683e+004

200528R2_2



F4:Voltage SIR,EI+
409.779
9.487e+004

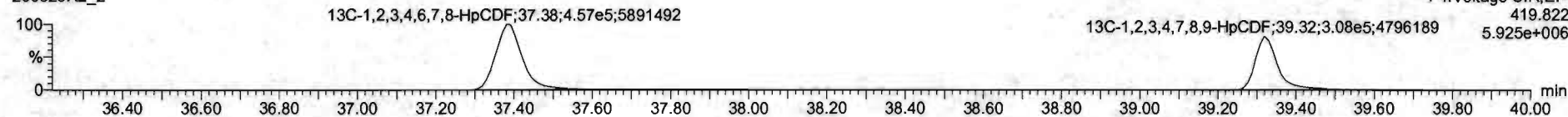
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200528R2_2



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2.595e+006

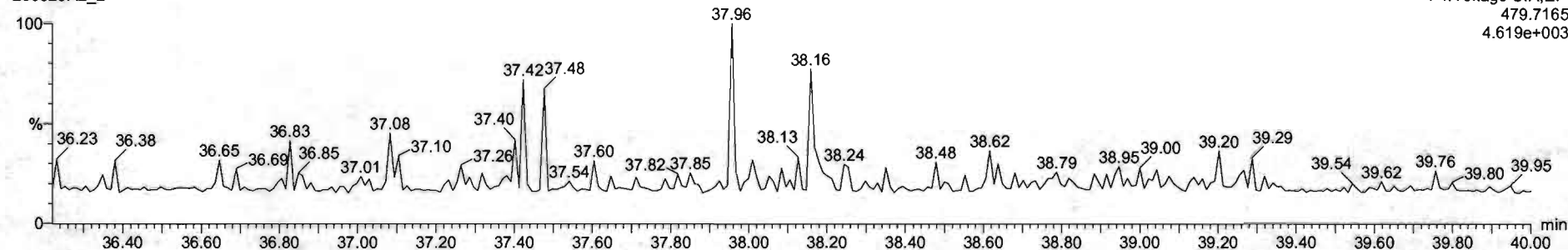
200528R2_2



F4:Voltage SIR,EI+
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DPE4

200528R2_2



F4:Voltage SIR,EI+
479.7165
4.619e+003

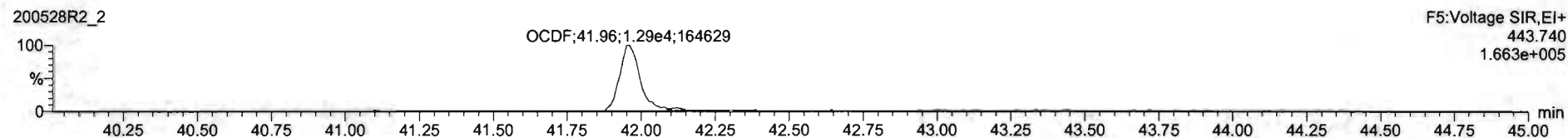
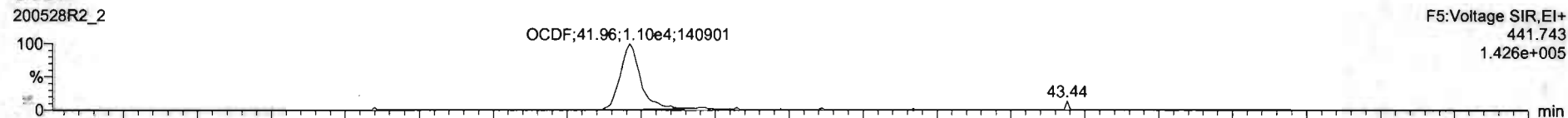
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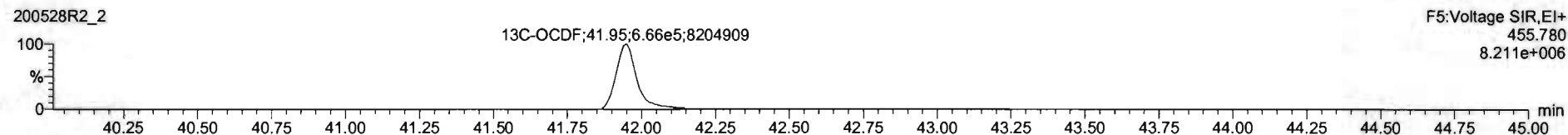
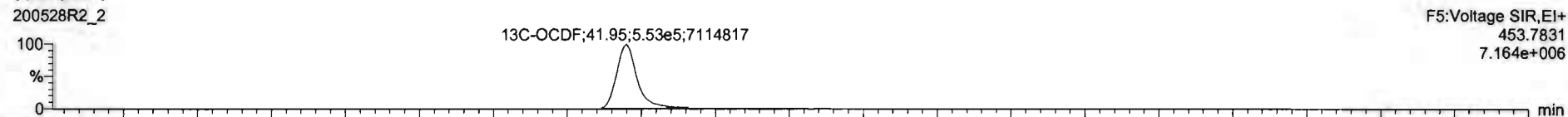
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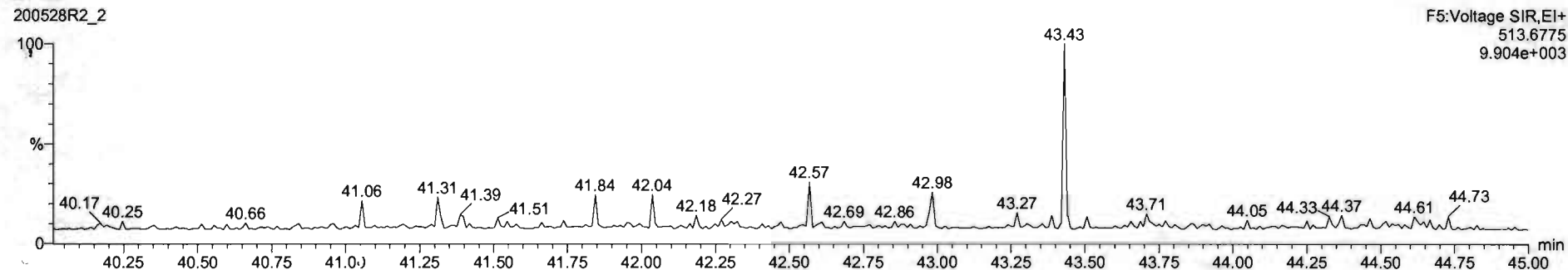
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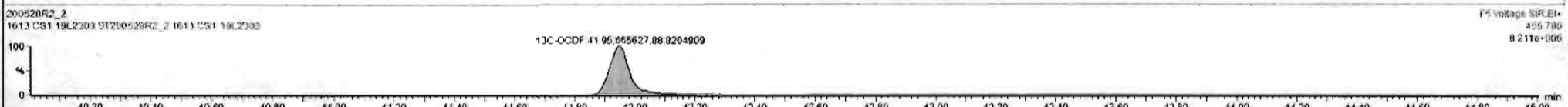
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DPE5



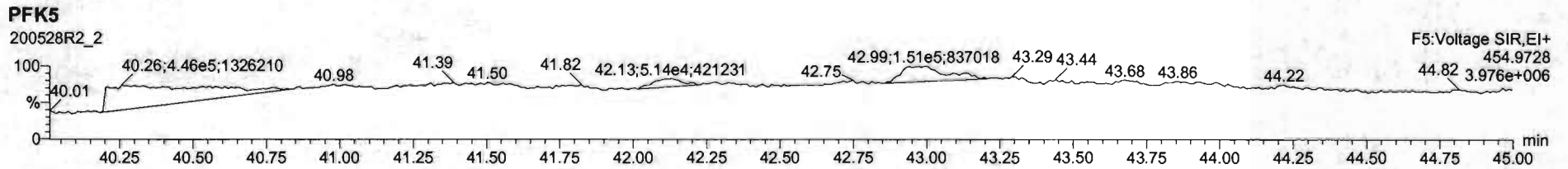
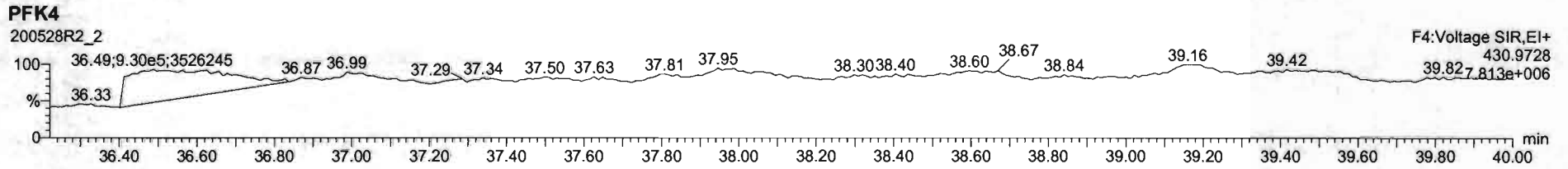
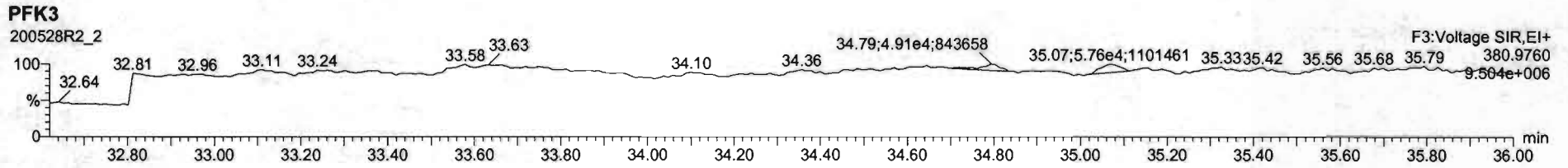
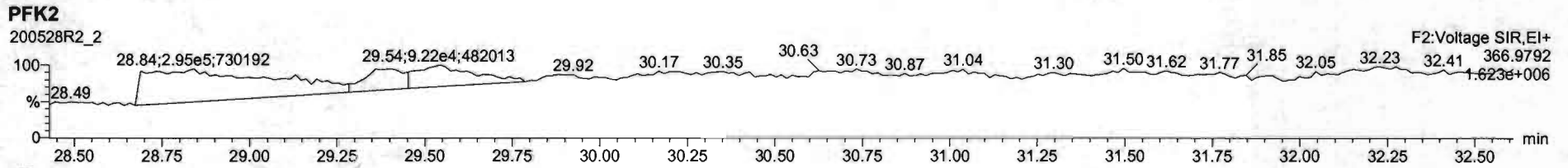
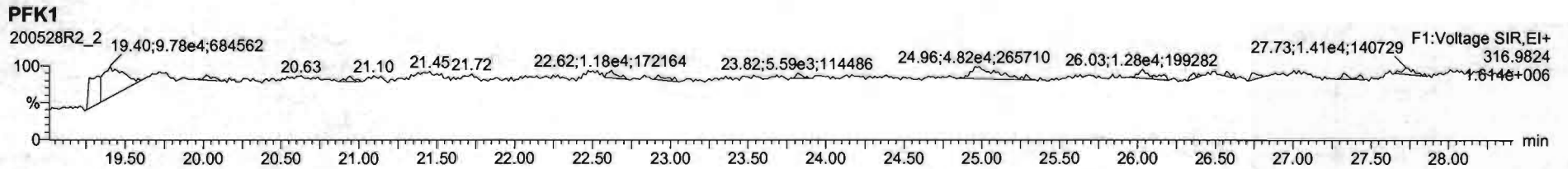
Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.69e3	0.78	NO	0.8883	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2 1,2,3,7,8-PeCDD	2.12e4	0.64	NO	0.9081	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3 1,2,3,4,7,8-HxCDD	1.85e4	1.27	NO	1.0334	1.000	24.85	1.000	2.53	101	0.0774	2.53
4 1,2,3,6,7,8-HxCDD	1.96e4	1.25	NO	0.8923	1.000	24.99	1.001	2.47	96.9	0.0747	2.47
5 1,2,3,7,8,9-HxCDD	1.62e4	1.21	NO	0.8869	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6 1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8638	1.000	36.81	1.001	2.33	92.3	0.0613	2.33
7 OCDD	2.39e4	0.83	NO	0.9136	1.000	41.77	1.000	4.97	99.4	0.148	4.97
8 2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.488	97.7	0.0670	0.488
9 1,2,3,7,8-PeCDF	3.05e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10 2,3,4,7,8-PeCDF	3.19e4	1.55	NO	0.9348	1.000	31.21	1.000	2.52	101	0.0395	2.52
11 1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8845	1.000	33.99	1.000	2.41	96.3	0.0665	2.41
12 1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.8892	1.000	34.12	1.000	2.50	100	0.0642	2.50
13 2,3,4,6,7,8-HxCDF	1.93e4	1.28	NO	0.9341	1.000	34.21	1.001	2.38	95.3	0.0702	2.38
14 1,2,3,7,8,9-HxCDF	1.42e4	1.12	NO	0.8707	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15 1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16 1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0126	1.000	39.33	1.000	2.33	93.3	0.0630	2.33
17 OCDF	2.40e4	0.84	NO	0.8085	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18 13C-2,3,7,8-TCDD	1.29e0	0.79	NO	1.1563	1.000	26.54	1.025	39.3	89.8	0.0928	
19 13C-1,2,3,7,8-PeCDD	9.36e5	0.63	NO	0.8490	1.000	31.50	1.216	88.7	88.7	0.113	
20 13C-1,2,3,4,7,8-HxCDD	5.46e5	1.28	NO	0.7790	1.000	24.87	1.014	85.9	85.9	0.183	
21 13C-1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0187	1.000	34.96	1.017	87.7	87.7	0.140	



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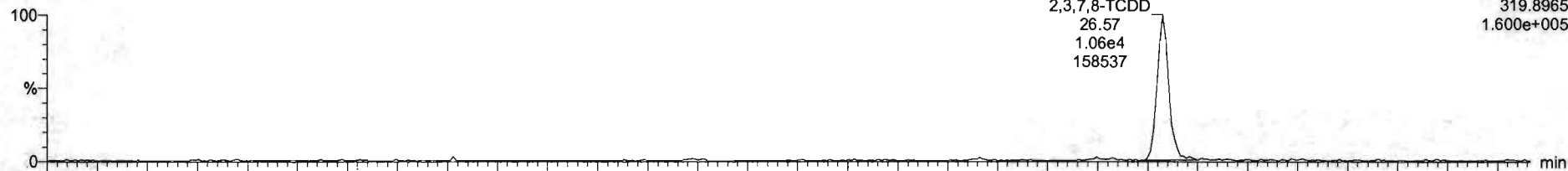
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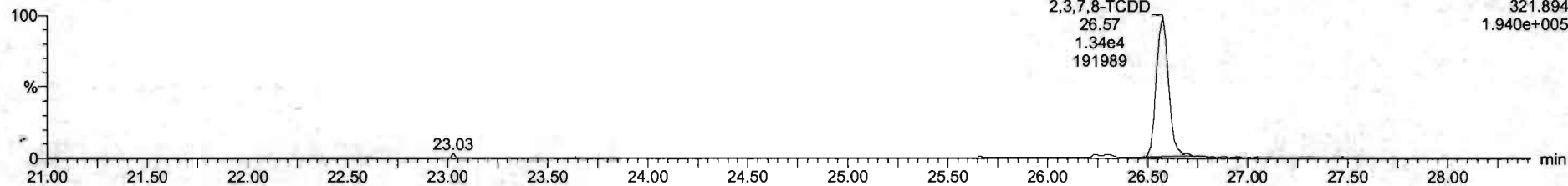
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2,3,7,8-TCDD

200528R2_3

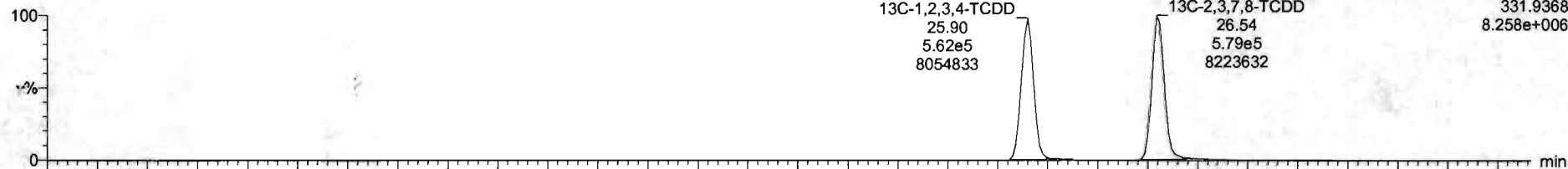


200528R2_3

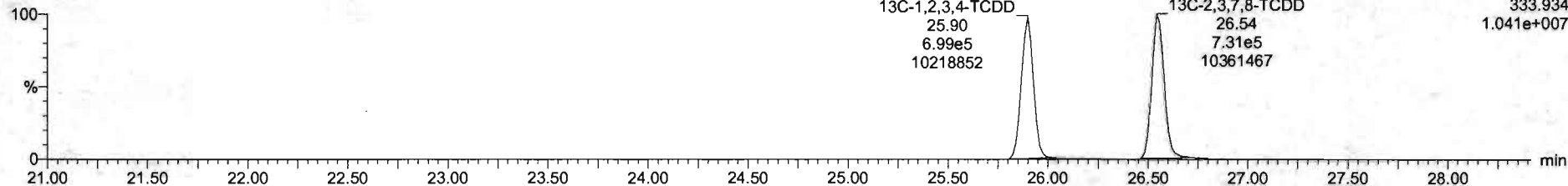


13C-2,3,7,8-TCDD

200528R2_3



200528R2_3



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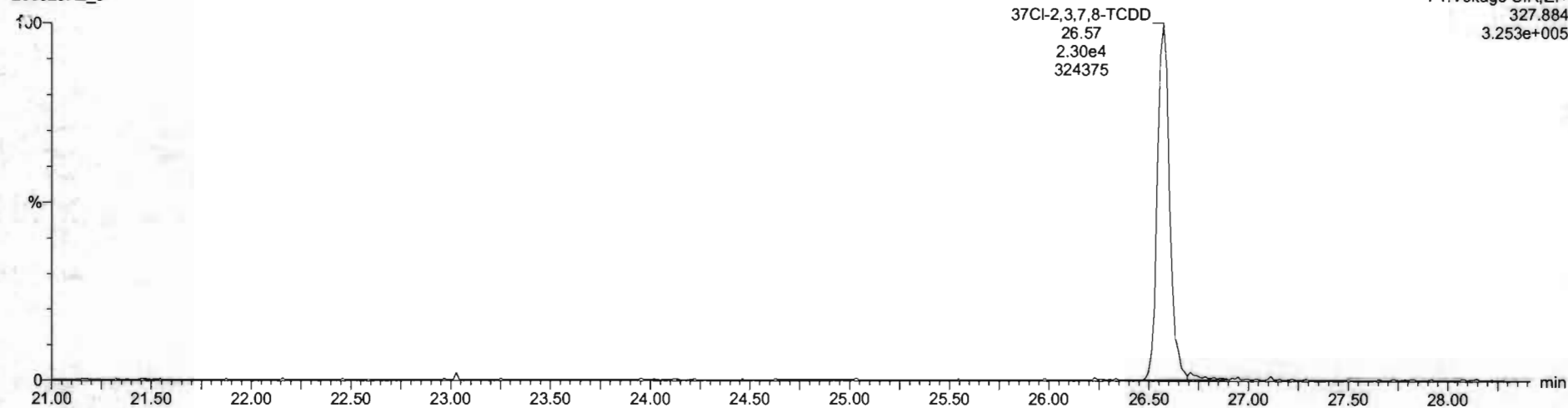
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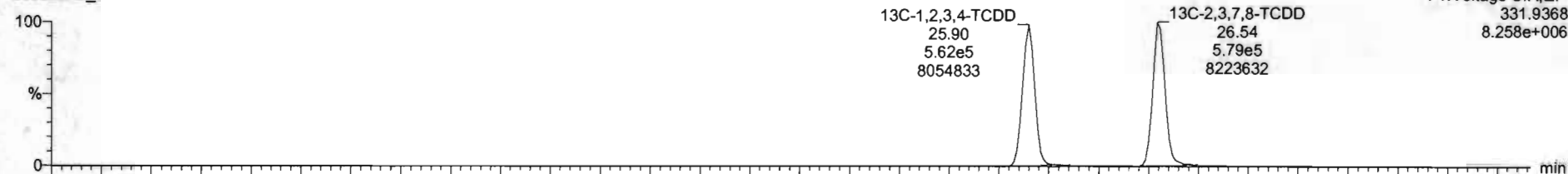
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200528R2_3

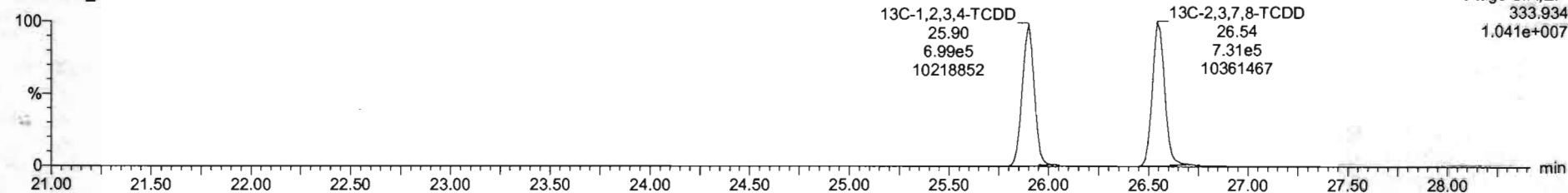


13C-1,2,3,4-TCDD

200528R2_3



200528R2_3



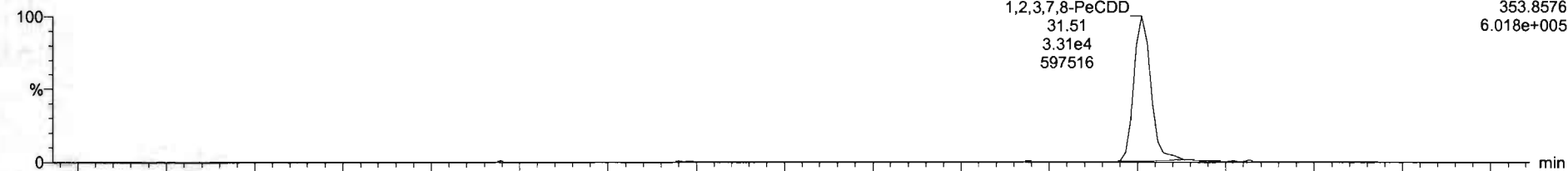
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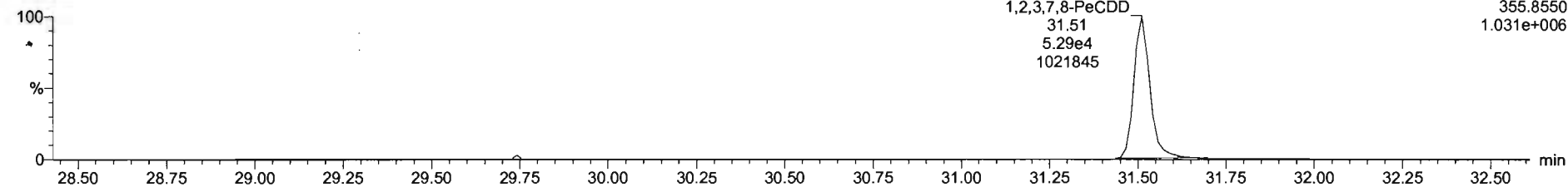
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1,2,3,7,8-PeCDD

200528R2_3

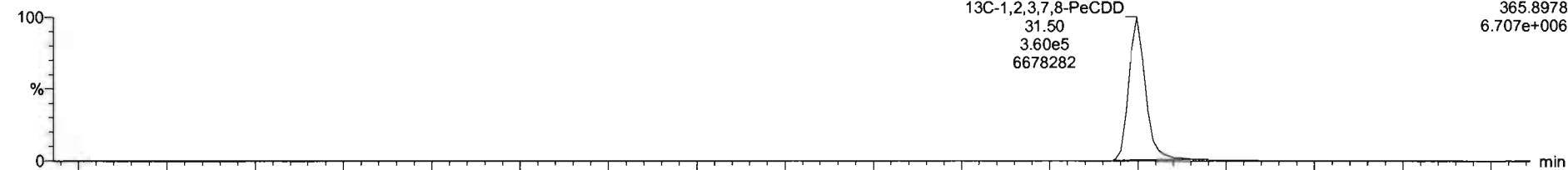


200528R2_3

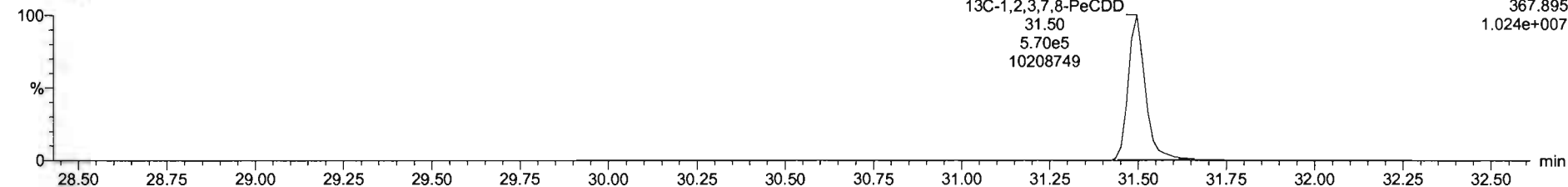


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200528R2_3



200528R2_3



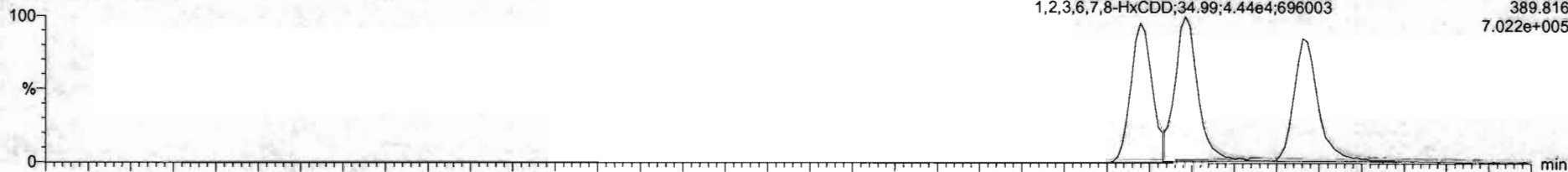
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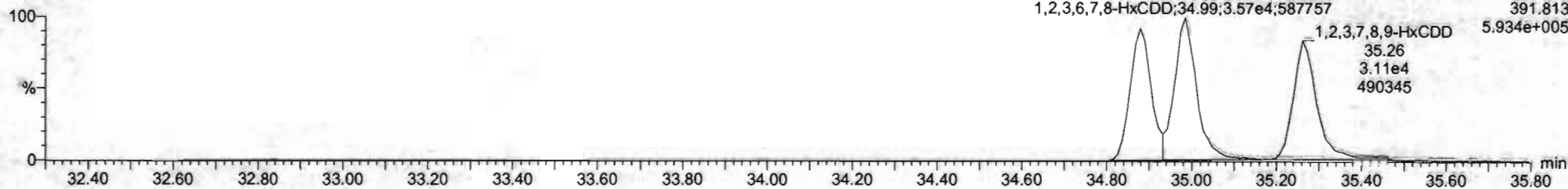
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1,2,3,4,7,8-HxCDD

200528R2_3

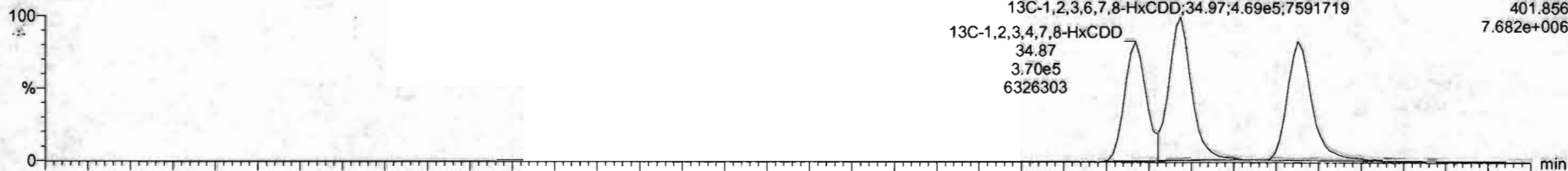


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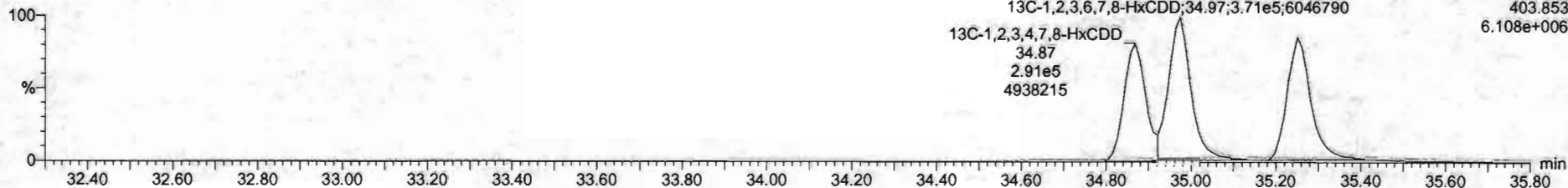


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200528R2_3



200528R2_3



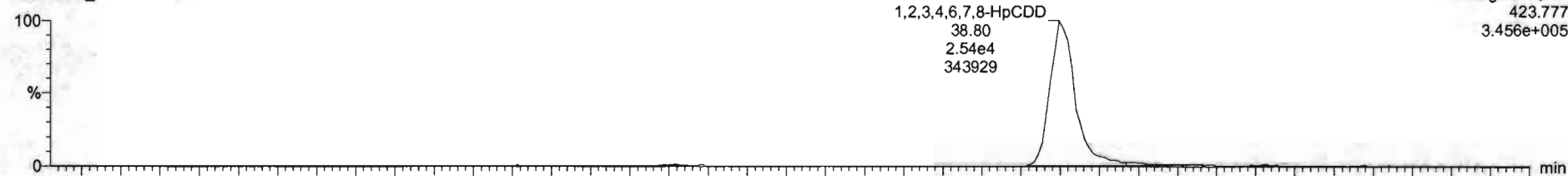
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

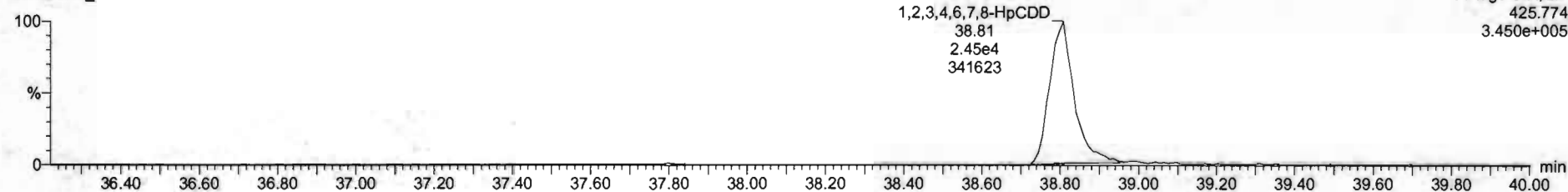
Name: 200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200528R2_3

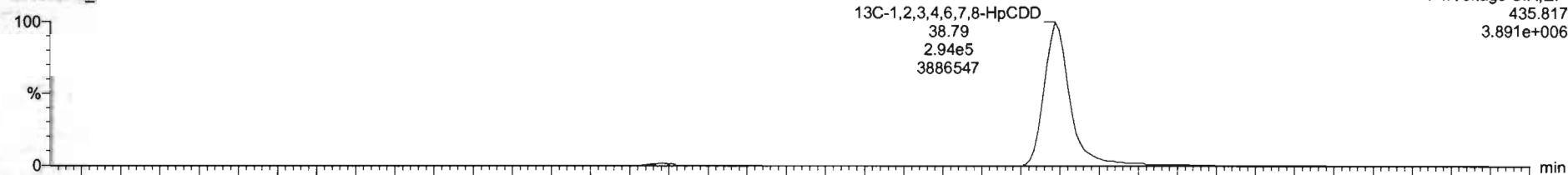


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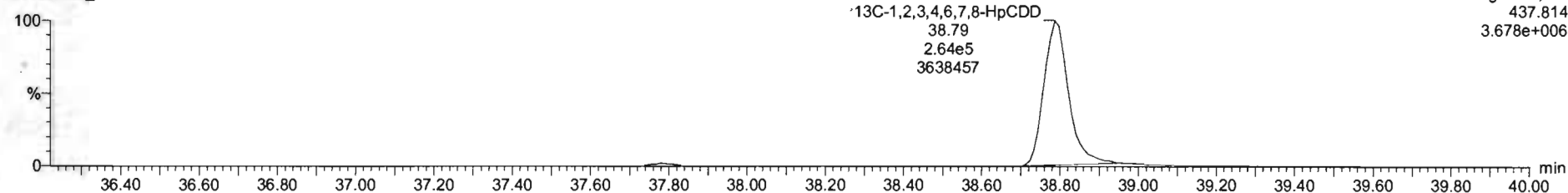


13C-1,2,3,4,6,7,8-HpCDD

200528R2_3



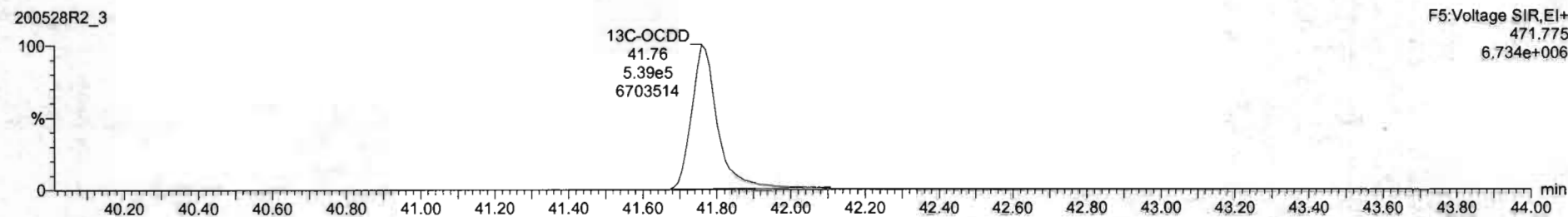
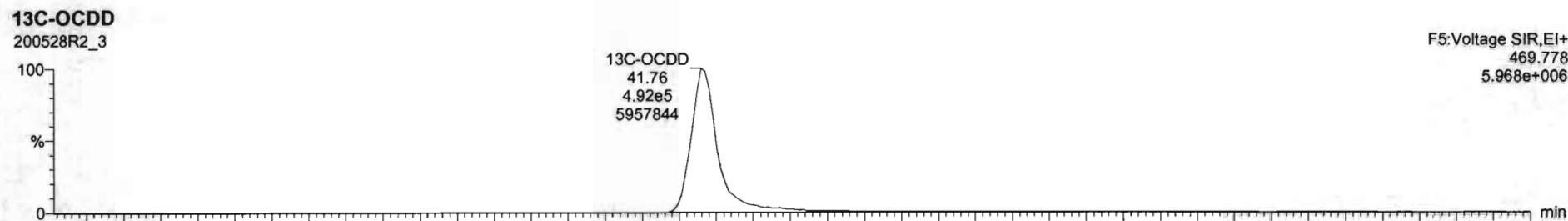
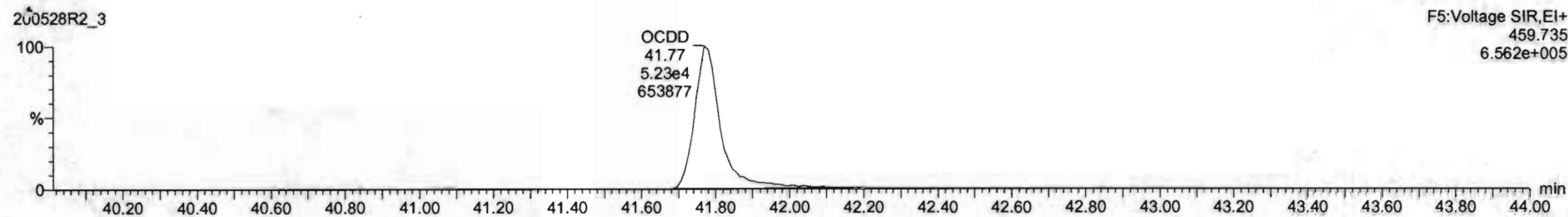
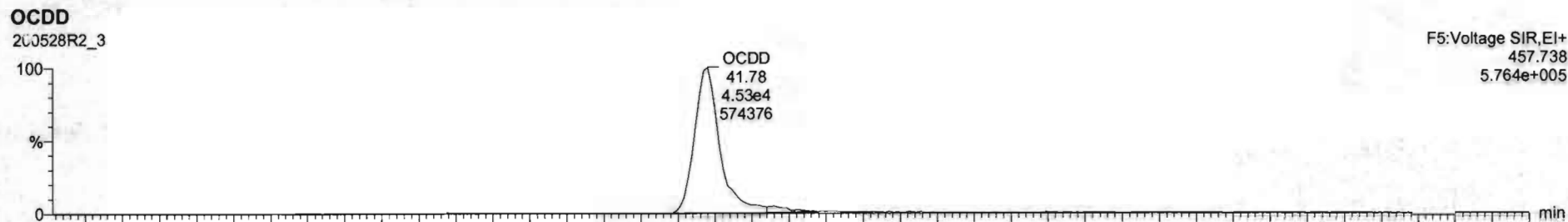
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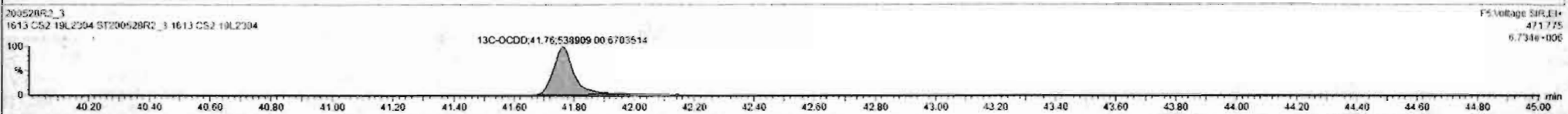
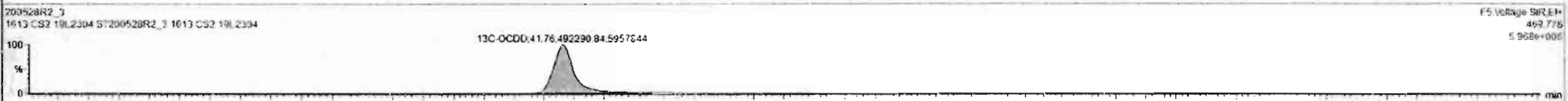
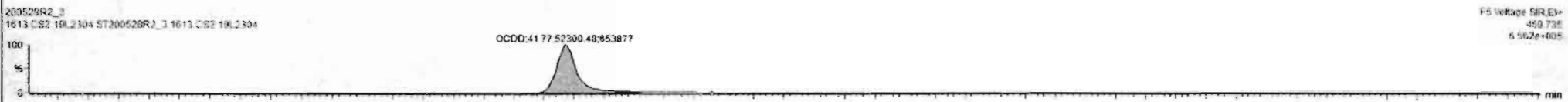
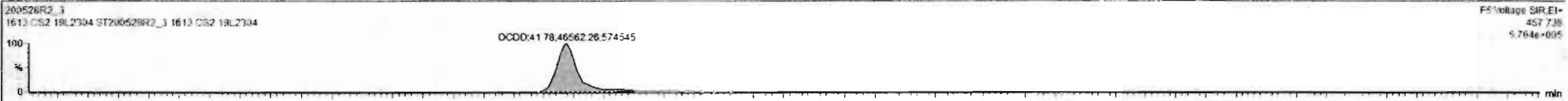
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304



Sl	Name	Resp	RA	n/y	RHF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.40e4	0.30	NO	0.8983	1.000	26.57	1.001	2.05	103	0.0278	2.96
2	1,2,3,7,8-PeCDD	5.50e4	0.63	NO	0.9081	1.000	31.51	1.000	10.2	102	0.0400	10.2
3	1,2,3,4,7,8-HxCDD	6.94e4	1.24	NO	1.0324	1.000	34.88	1.000	10.2	102	0.0561	10.2
4	1,2,3,6,7,8-HxCDD	6.01e4	1.24	NO	0.8523	1.000	34.99	1.000	10.7	107	0.0559	10.7
5	1,2,3,7,8,9-HxCDD	7.01e4	1.26	NO	0.8265	1.000	35.26	1.000	10.5	105	0.0679	10.5
6	1,2,3,4,6,7,8-HpCDD	4.59e4	1.93	NO	0.8639	1.000	38.50	1.000	10.4	104	0.0797	10.4
7	OCDD	9.65e4	0.39	NO	0.9136	1.000	41.76	1.000	21.0	105	0.109	21.0
8	2,3,7,8-TCDF	2.67e4	0.74	NO	0.7510	1.000	26.88	1.001	1.97	96.6	0.0321	1.97
9	1,2,3,7,8-PeCDF	1.31e5	1.55	NO	0.8925	1.000	30.23	1.000	10.7	107	0.0517	10.7
10	2,3,4,7,8-PeCDF	1.34e5	1.55	NO	0.9346	1.000	31.21	1.000	10.4	104	0.0475	10.4
11	1,2,3,4,7,8-HxCDF	7.91e4	1.22	NO	0.8545	1.000	34.81	1.001	10.6	106	0.0661	10.6
12	1,2,3,6,7,8-HxCDF	5.20e4	1.28	NO	0.8892	1.000	34.12	1.000	10.3	103	0.0595	10.3
13	2,3,4,6,7,8-HxCDF	6.53e4	1.25	NO	0.9341	1.000	34.71	1.000	10.5	105	0.0860	10.5
14	1,2,3,7,8,9-HxCDF	6.49e4	1.24	NO	0.8707	1.000	35.62	1.000	10.3	103	0.0961	10.3
15	1,2,3,4,6,7,8-HpCDF	5.72e4	1.00	NO	0.6734	1.000	37.40	1.001	10.1	101	0.0828	10.1
16	1,2,3,4,7,8,9-HpCDF	4.43e4	1.91	NO	1.0128	1.000	39.34	1.000	10.4	104	0.0861	10.4
17	OCDF	3.85e4	0.66	NO	0.8085	1.000	41.96	1.000	20.6	103	0.0967	20.6
18	13C-2,3,7,8-TCDD	1.31e6	0.79	NO	1.1583	1.000	26.54	1.025	39.3	89.6	0.0659	
19	13C-1,2,3,7,8-PeCDD	9.29e5	0.63	NO	0.8450	1.000	31.50	1.216	86.8	86.8	0.123	
20	13C-1,2,3,4,7,8-HxCDD	6.61e5	1.27	NO	0.7790	1.000	34.87	1.014	87.0	87.0	0.189	
21	13C-1,2,3,6,7,8-HxCDD	6.39e5	1.26	NO	1.0167	1.000	34.97	1.017	84.7	84.7	0.145	



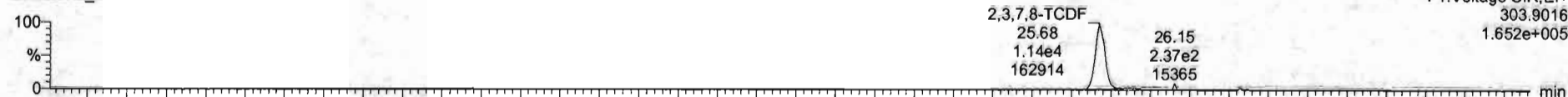
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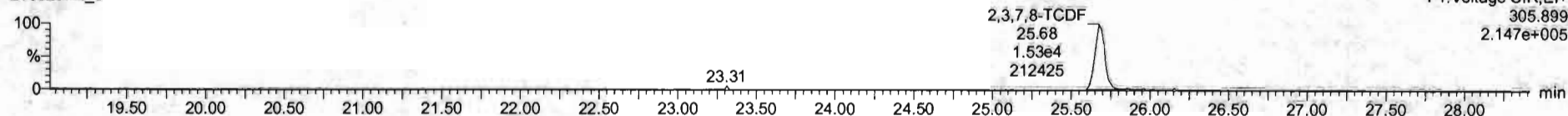
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2,3,7,8-TCDF

200528R2_3

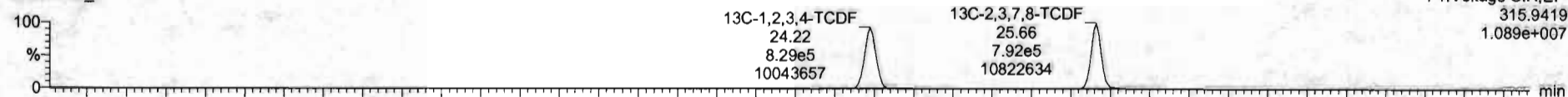


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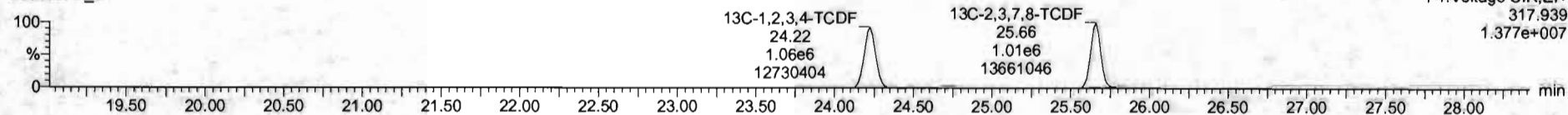


13C-2,3,7,8-TCDF

200528R2_3

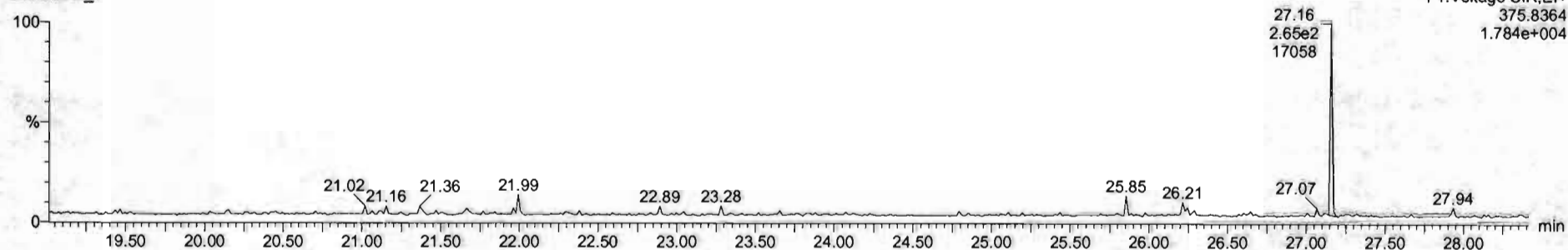


200528R2_3



DPE1

200528R2_3



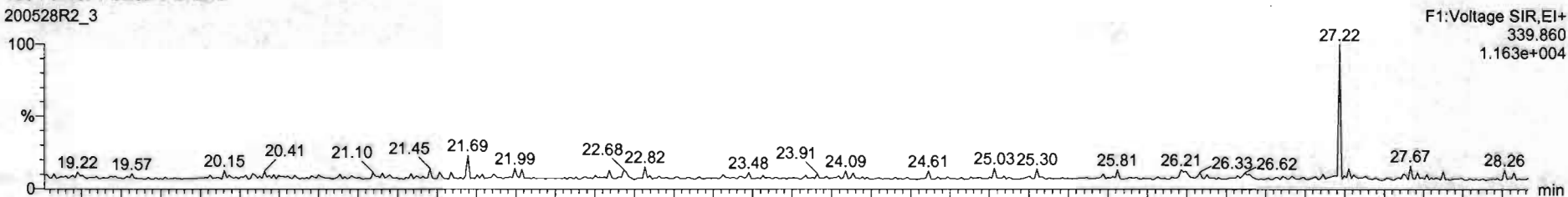
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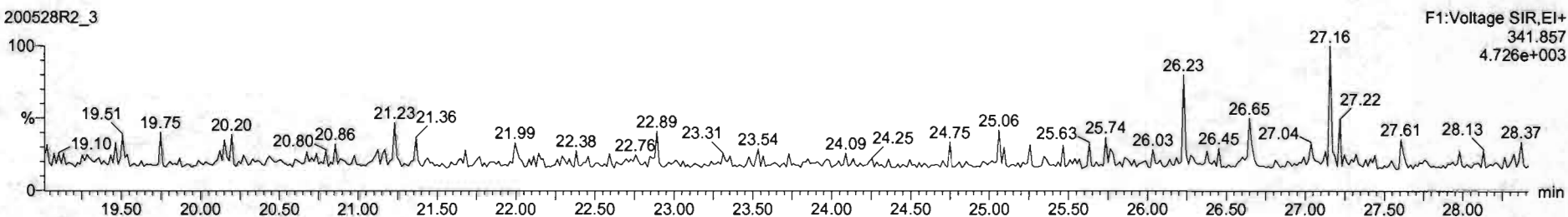
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200528R2_3

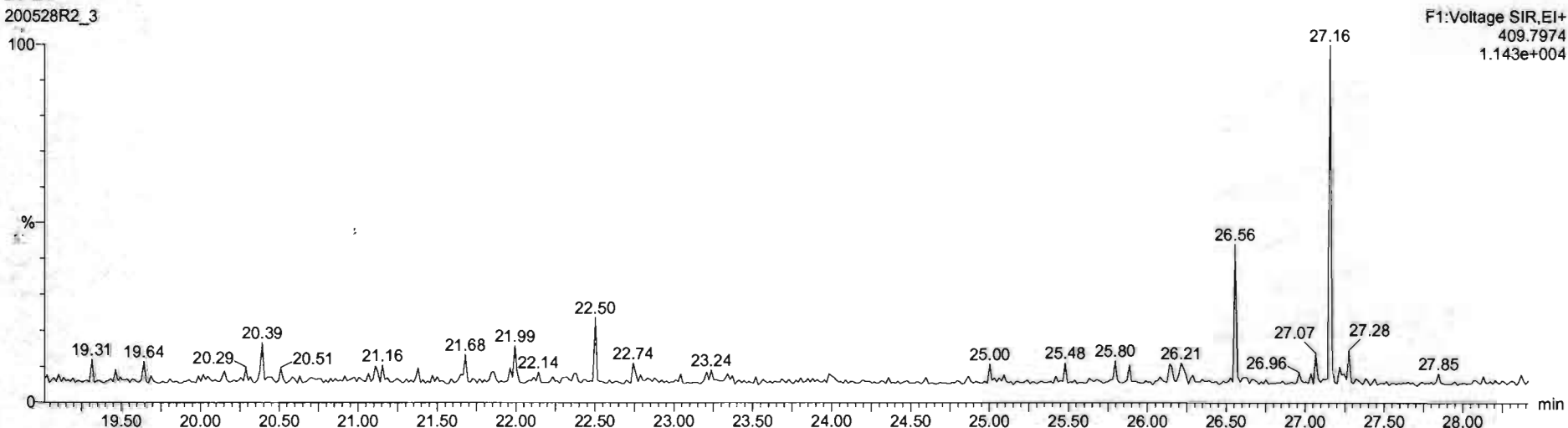


200528R2_3



DPE6

200528R2_3



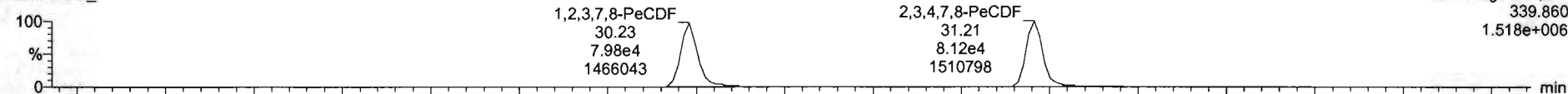
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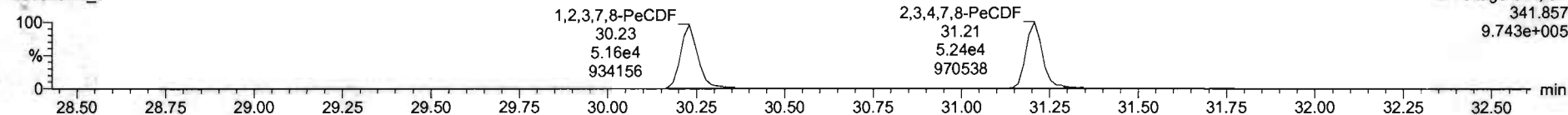
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1,2,3,7,8-PeCDF

200528R2_3

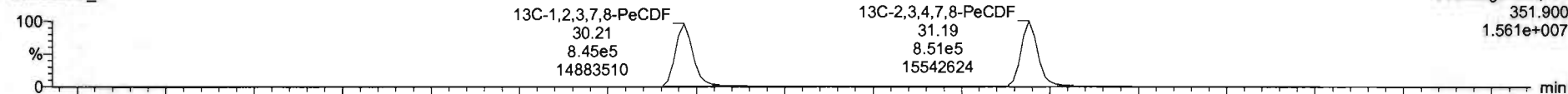


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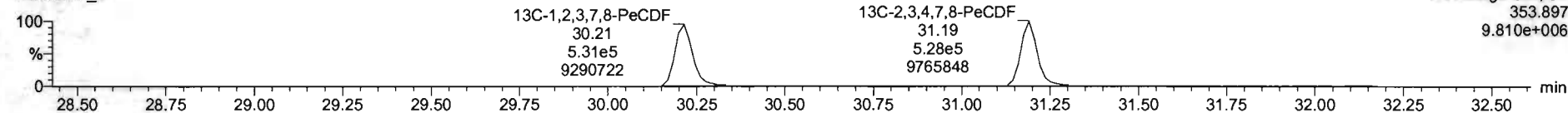


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200528R2_3

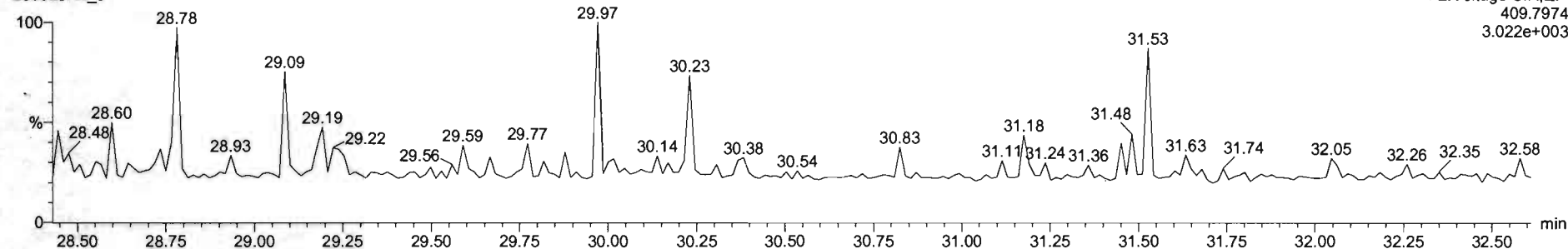


200528R2_3



DPE2

200528R2_3



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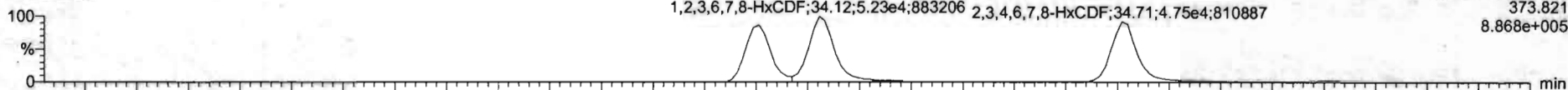
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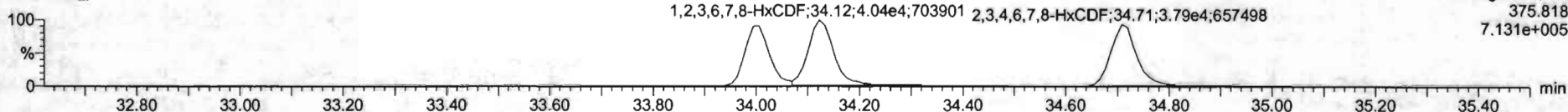
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1,2,3,4,7,8-HxCDF

200528R2_3

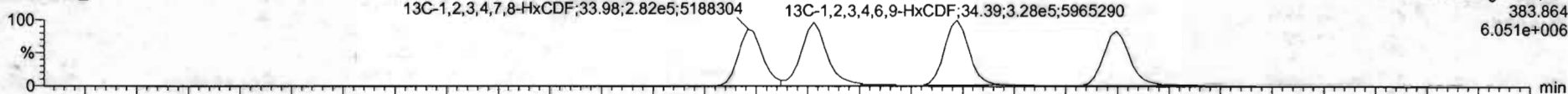


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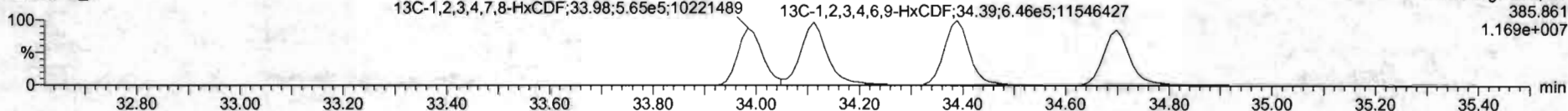


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200528R2_3

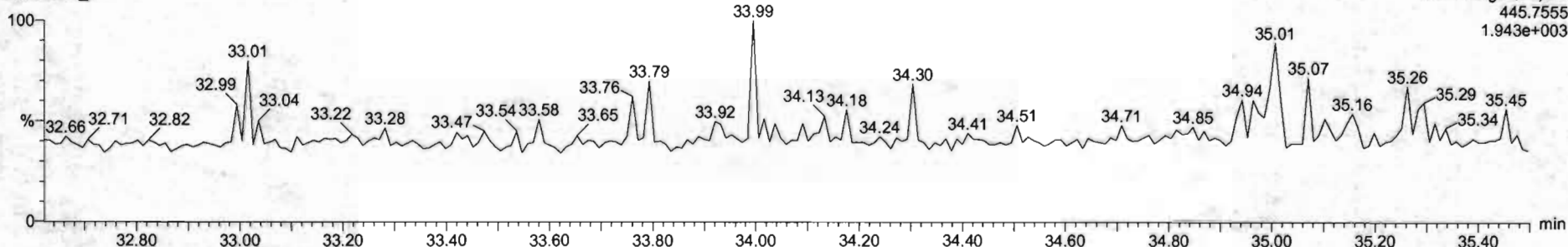


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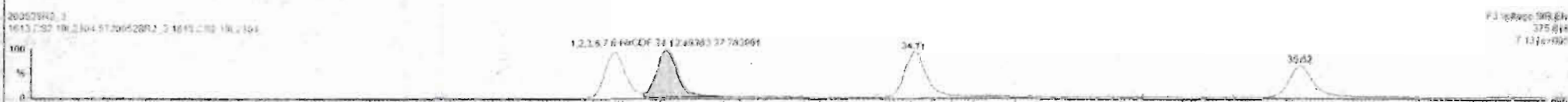


DPE3

200528R2_3



#	Name	Resp	RA	n/y	RRF	weight	BT	NK1	Conc	%Rec	DR	EMPL
1	1,2,3,6,7-CDD	2.58e4	0.39	NO	0.8883	1.000	26.57	1.001	2.08	103	0.0270	2.08
2	1,2,3,7,8-PeCDD	5.58e4	0.43	NO	0.9051	1.000	31.51	1.000	10.2	102	0.0400	10.2
3	1,2,3,4,7,8-HxCDD	5.94e4	1.24	NO	1.9334	1.000	34.88	1.000	16.2	102	0.0531	16.2
4	1,2,3,6,7,8-HxCDD	6.01e4	1.24	NO	0.8923	1.000	34.95	1.000	16.7	107	0.0558	16.7
5	1,2,3,7,8,9-HxCDD	7.01e4	1.26	NO	0.9269	1.000	35.26	1.000	16.1	105	0.0670	16.1
6	1,2,3,4,6,7,8-HpCDD	1.99e4	1.02	NO	0.8839	1.000	35.80	1.000	16.4	104	0.0797	16.4
7	OCDD	9.89e4	0.39	NO	0.9136	1.000	41.75	1.000	21.0	105	0.1169	21.0
8	1,2,3,6,7,8-HxCDF	2.87e4	0.74	NO	0.7510	1.000	35.60	1.001	1.91	98.8	0.0211	1.91
9	1,2,3,7,8-PeCDF	1.31e5	1.58	NO	0.8025	1.000	36.23	1.000	10.7	107	0.0217	10.7
10	1,2,3,4,7,8-HpCDF	1.34e4	1.55	NO	0.9346	1.000	31.21	1.000	10.4	104	0.0475	10.4
11	1,2,3,4,7,8-HxCDF	7.91e4	1.22	NO	0.8545	1.000	34.01	1.001	10.5	106	0.0611	10.4
12	1,2,3,6,7,8-HxCDF	9.26e4	1.28	NO	0.8852	1.000	34.12	1.000	11.3	103	0.0595	10.3
13	1,2,3,4,7,8-HpCDF	8.03e4	1.21	NO	0.9191	1.000	34.71	1.000	10.5	105	0.0693	10.5
14	1,2,3,7,8-PeCDF	6.49e4	1.24	NO	0.9727	1.000	35.62	1.000	10.3	102	0.0911	10.3
15	1,2,3,4,6,7,8-HpCDF	3.72e4	1.00	NO	0.8734	1.000	37.40	1.001	10.1	101	0.0828	10.1
16	1,2,3,4,7,8-HpCDF	4.43e4	1.01	NO	1.0128	1.000	39.34	1.000	10.4	104	0.0881	10.4
17	OCDF	5.58e4	0.36	NO	0.8055	1.000	41.90	1.000	26.3	103	0.0967	26.3
18	13C-1,2,3,7,8-PeCDD	1.31e5	0.79	NO	1.1562	1.000	26.34	1.025	39.0	99.8	0.0819	39.0
19	13C-1,2,3,7,8-PeCDF	9.26e4	0.63	NO	0.8499	1.000	31.50	1.216	36.0	96.1	0.123	36.0
20	13C-1,2,3,4,7,8-HpCDD	8.61e5	1.27	NO	0.7790	1.000	24.97	1.014	37.0	97.3	0.149	37.0
21	13C-1,2,3,6,7,8-HxCDD	8.19e4	1.38	NO	1.9187	1.000	24.97	1.017	34.7	94.7	0.146	34.7





#	Name	Range	ISA	Qty	RFP	wtVol	RT	RRT	Conc	%Rec	DI	EMPC
1	1,2,3,7,8-HxCDD	2.48e4	0.30	NO	0.8853	1.000	26.17	1.001	3.28	101	0.0078	2.01
2	1,2,3,7,8-PeCDD	5.55e4	0.82	NO	0.9041	1.000	31.21	1.002	10.2	102	0.0430	10.2
3	1,2,3,4,7,8-HxCDD	5.89e4	1.24	NO	1.0234	1.000	34.00	1.000	10.2	102	0.0511	10.2
4	1,2,3,6,7,8-HxCDD	1.01e4	1.24	NO	0.8921	1.000	34.99	1.000	10.7	101	0.0569	10.7
5	1,2,3,7,8,9-HxCDD	7.51e4	1.25	NO	0.8905	1.000	35.20	1.000	10.5	101	0.0670	10.5
6	1,2,3,4,6,7,8-HpCDD	4.99e4	1.03	NO	0.8838	1.000	28.00	1.000	10.4	104	0.0191	10.4
7	CDD	3.89e4	0.89	NO	0.9130	1.000	41.75	1.000	21.0	105	3.100	21.0
8	1,2,3,6,7,8-HxCDF	2.87e4	0.74	NO	0.7510	1.000	25.09	1.001	1.91	98.6	0.0231	1.91
9	1,2,3,7,8-HxCDF	1.31e4	1.55	NO	0.9225	1.000	30.21	1.000	10.7	101	0.0517	10.7
10	1,2,3,4,7,8-HxCDF	1.38e4	1.55	NO	0.9245	1.000	31.21	1.000	10.5	104	0.0475	10.4
11	1,2,3,4,7,8-HxCDF	7.91e4	1.22	NO	0.8545	1.000	34.01	1.001	10.5	100	0.0683	10.5
12	1,2,3,6,7,8-HxCDF	4.26e4	1.25	NO	0.9092	1.000	34.12	1.000	10.2	103	0.0590	10.2
13	1,2,3,4,7,8-HxCDF	8.51e4	1.21	NO	0.9341	1.000	34.71	1.000	10.3	100	0.0600	10.3
14	1,2,3,7,8,9-HxCDF	6.49e4	1.24	NO	0.8787	1.000	35.81	1.000	10.3	102	0.0601	10.3
15	1,2,3,4,6,7,8-HpCDF	1.72e4	1.00	NO	0.8734	1.000	27.40	1.001	10.1	101	0.0820	10.1
16	1,2,3,4,7,8,9-HpCDF	4.43e4	1.01	NO	0.8128	1.000	28.38	1.000	10.4	104	0.0601	10.4
17	CDF	3.66e4	0.60	NO	0.8985	1.000	41.96	1.000	25.4	103	0.0963	25.4
18	1,2,3,4,6,7,8,9-TCDF	1.31e4	0.79	NO	1.1560	1.000	26.54	1.025	19.0	89.5	0.0663	
19	1,2,3,6,7,8,9-HxCDF	9.29e4	0.83	NO	0.9420	1.000	31.08	1.216	98.0	98.1	0.123	
20	1,2,3,4,7,8,9-HpCDD	2.61e4	1.27	NO	0.7798	1.000	34.07	1.034	57.0	97.0	0.159	
21	1,2,3,4,6,7,8-HpCDD	6.20e4	1.26	NO	1.0187	1.000	24.97	1.017	34.7	94.7	0.145	



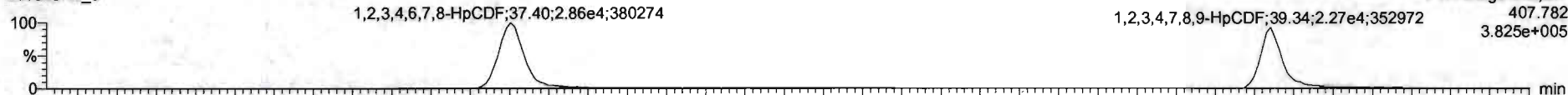
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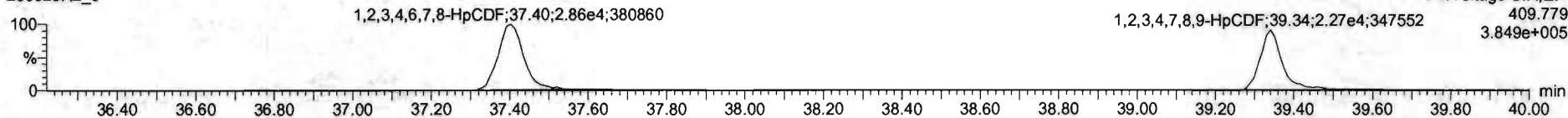
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1,2,3,4,6,7,8-HpCDF

200528R2_3

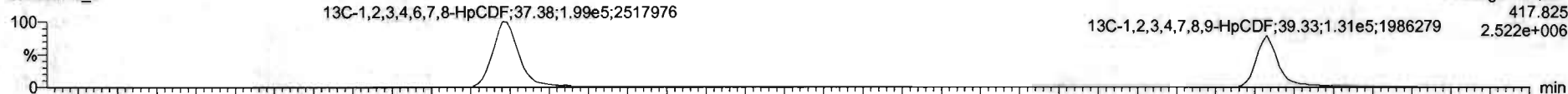


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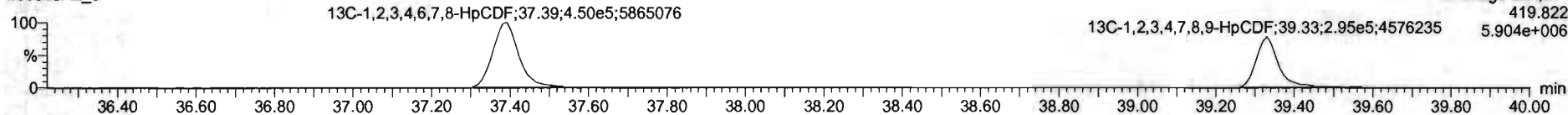


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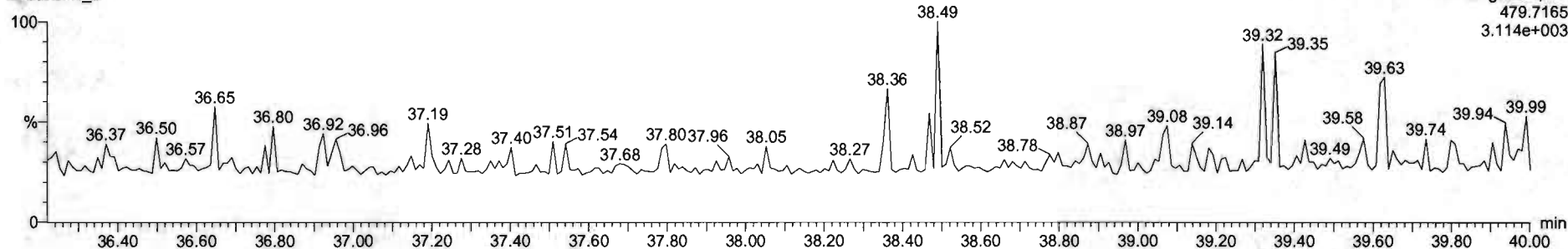


200528R2_3



DPE4

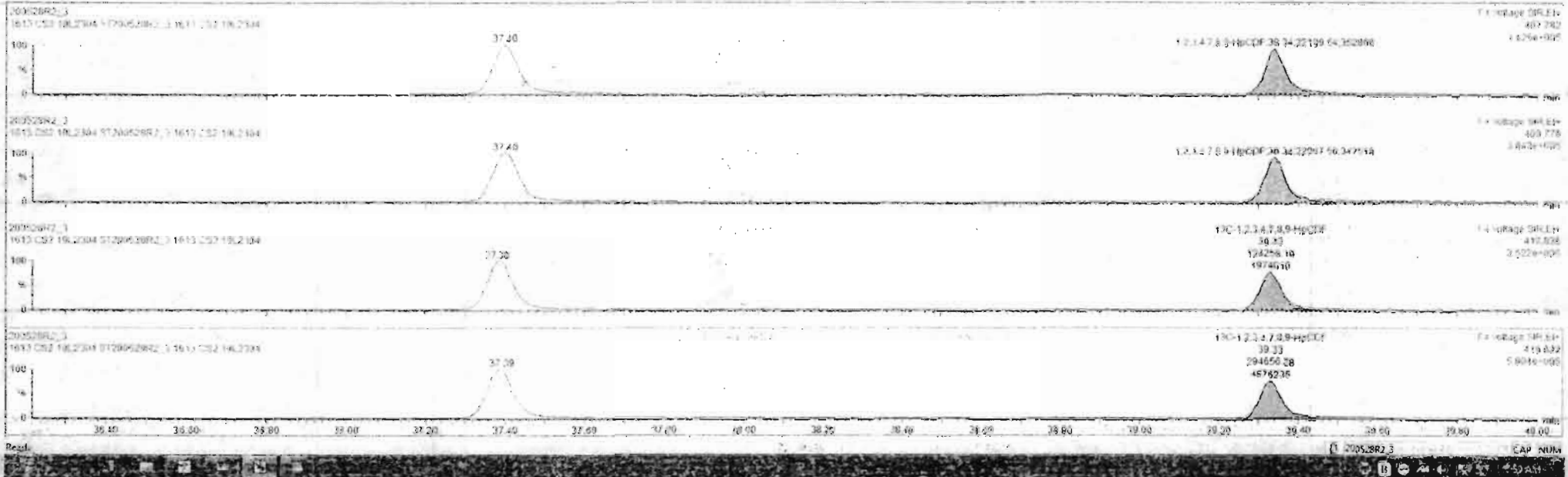
200528R2_3





1613 CS2 19.2304

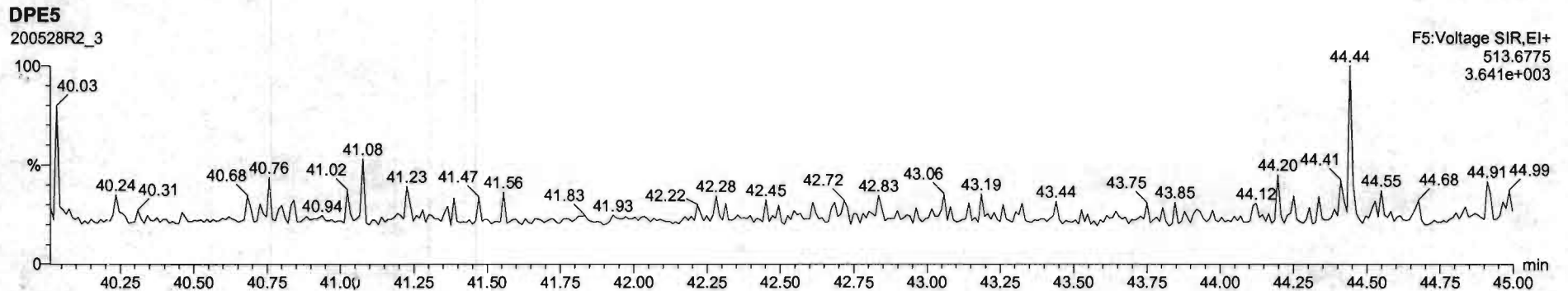
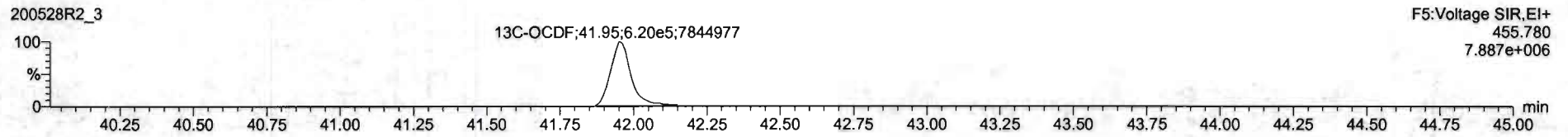
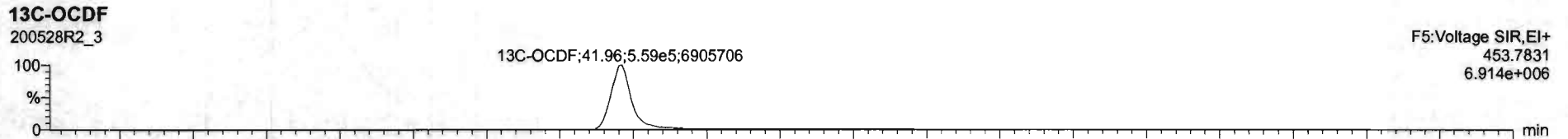
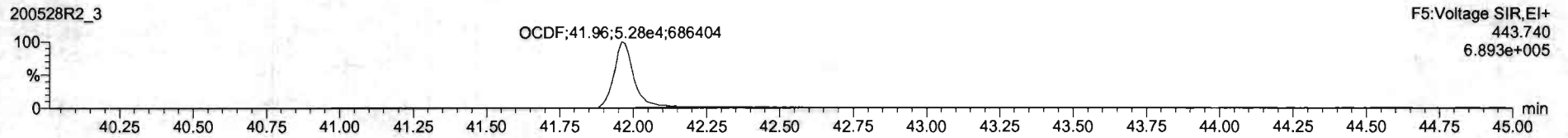
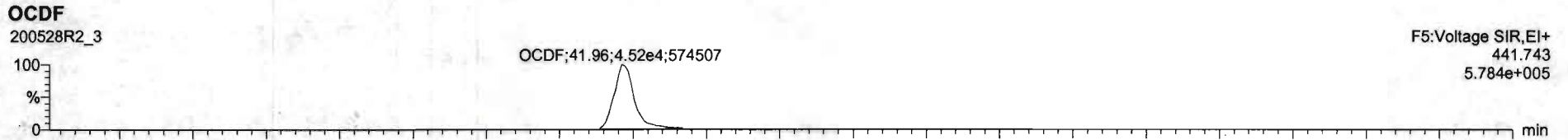
#	Name	Desc	RA	RY	RRF	whval	RT	RFI	Conc	MRnc	DL	UM
1	1,2,3,6-TCDF	2.48e4	0.00	NO	0.0000	1.00	26.07	1.00	2.00	10.7	0.0276	2.30
2	1,2,3,7,8-PeCDF	1.50e4	0.00	NO	0.0001	1.00	31.01	1.00	10.2	10.7	0.0400	10.2
3	1,2,3,4,7,8-HxCDF	0.90e4	1.24	NO	1.0004	1.00	34.05	1.00	10.2	10.7	0.0501	10.2
4	1,2,3,6,7,8-HxCDF	0.01e4	1.04	NO	0.0001	1.00	34.36	1.00	10.7	10.7	0.0559	10.7
5	1,2,3,7,8-HxCDF	2.11e4	1.26	NO	0.0000	1.00	35.26	1.00	10.5	10.7	0.0579	10.5
6	1,2,3,4,6,7,8-HpCDF	1.90e4	1.00	NO	0.0000	1.00	35.90	1.00	10.4	10.4	0.0747	10.4
7	OCDF	0.00e4	0.00	NO	0.0000	1.00	31.75	1.00	21.0	10.5	0.100	21.0
8	1,2,3,6,7,8-HxCDF	2.77e4	0.74	NO	0.7510	1.00	25.00	1.00	1.97	36.8	0.0001	1.97
9	1,2,3,7,8-HxCDF	1.15e4	1.90	NO	0.0000	1.00	30.23	1.00	10.7	10.7	0.0517	10.7
10	1,2,3,4,7,8-HxCDF	1.10e4	1.00	NO	0.0000	1.00	31.01	1.00	10.4	10.4	0.0475	10.4
11	1,2,3,4,7,8-HxCDF	2.91e4	1.00	NO	0.0000	1.00	34.05	1.00	10.6	10.6	0.0651	10.6
12	1,2,3,6,7,8-HxCDF	1.20e4	1.00	NO	0.0000	1.00	34.12	1.00	10.3	10.3	0.0595	10.3
13	1,2,3,4,7,8-HxCDF	0.50e4	1.00	NO	0.0000	1.00	34.21	1.00	10.5	10.5	0.0640	10.5
14	1,2,3,7,8-HxCDF	0.40e4	1.04	NO	0.0000	1.00	31.92	1.00	10.3	10.3	0.0601	10.3
15	1,2,3,4,6,7,8-HpCDF	1.70e4	1.00	NO	0.0000	1.00	37.40	1.00	10.1	10.1	0.0620	10.1
16	1,2,3,4,7,8,9-HpCDF	4.43e4	1.00	NO	1.0000	1.00	30.34	1.00	10.4	10.4	0.0681	10.4
17	OCDF	0.00e4	0.00	NO	0.0000	1.00	41.30	1.00	26.6	10.5	0.0807	26.6
18	1,2,3,4,6,7,8-HpCDF	1.31e4	0.76	NO	1.1500	1.00	26.04	1.00	0.00	38.0	0.0800	0.00
19	1,2,3,4,7,8-HxCDF	0.90e4	0.00	NO	0.0000	1.00	31.00	1.00	10.6	10.6	0.120	0.00
20	1,2,3,4,7,8-HxCDF	0.61e4	1.00	NO	0.7700	1.00	34.00	1.00	0.00	07.0	0.100	0.00
21	1,2,3,4,6,7,8-HpCDF	0.30e4	1.00	NO	1.0000	1.00	34.00	1.00	0.00	04.7	0.140	0.00



Dataset: Untitled

Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

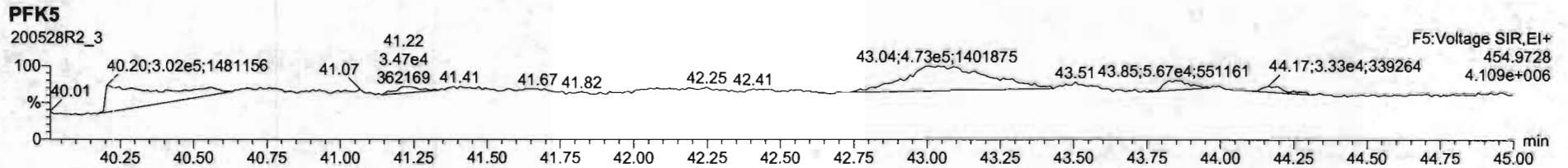
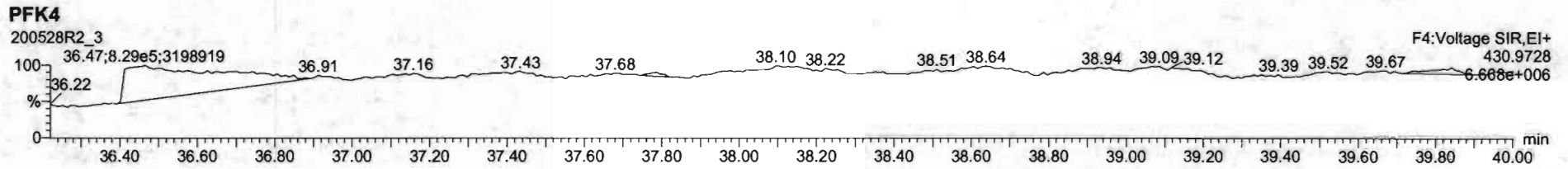
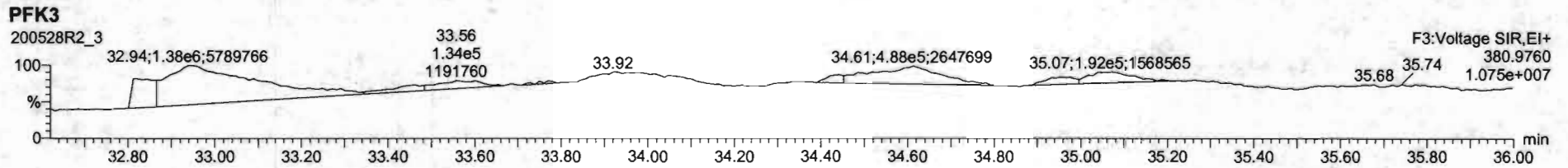
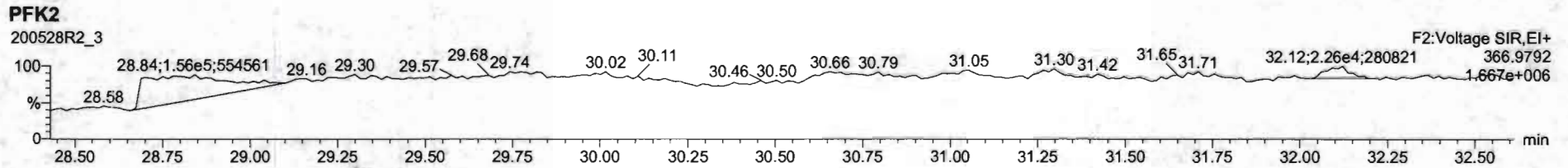
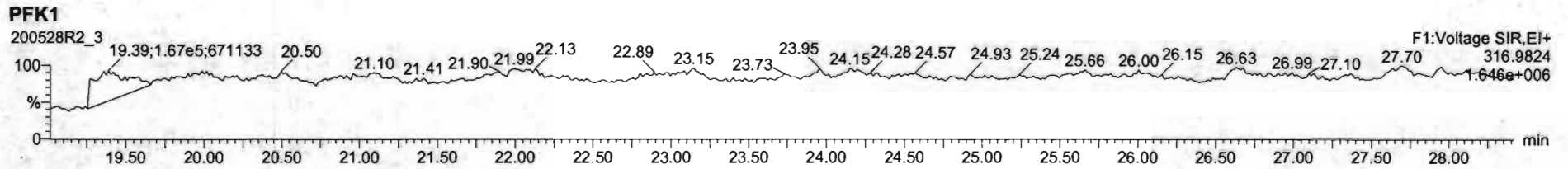


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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304



Dataset: Untitled

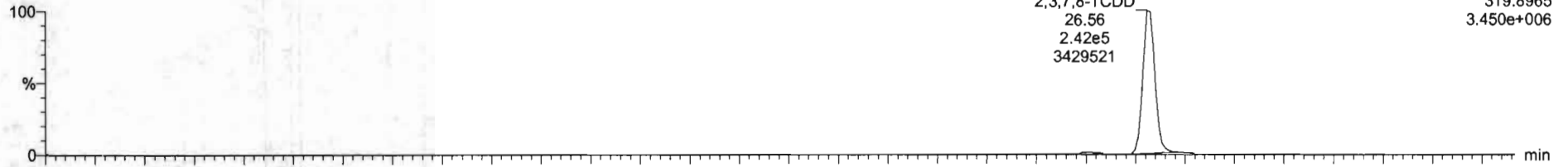
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

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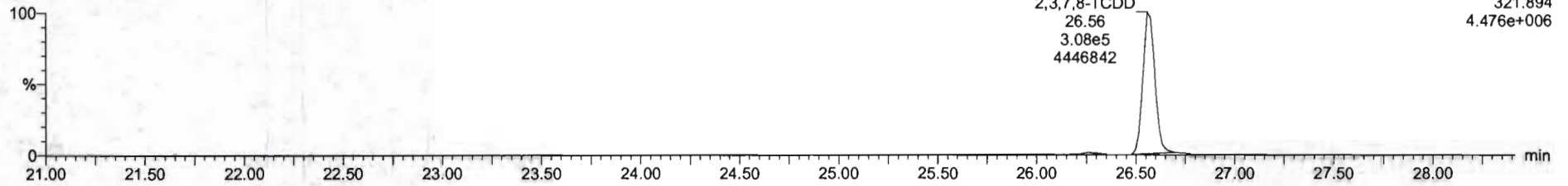
2,3,7,8-TCDD

200528R2_4



F1:Voltage SIR,EI+
319.8965
3.450e+006

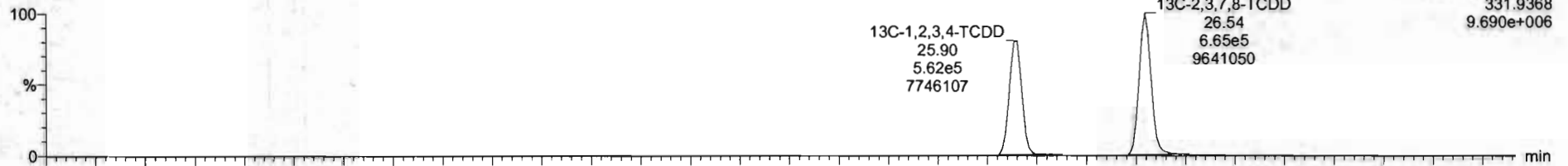
200528R2_4



F1:Voltage SIR,EI+
321.894
4.476e+006

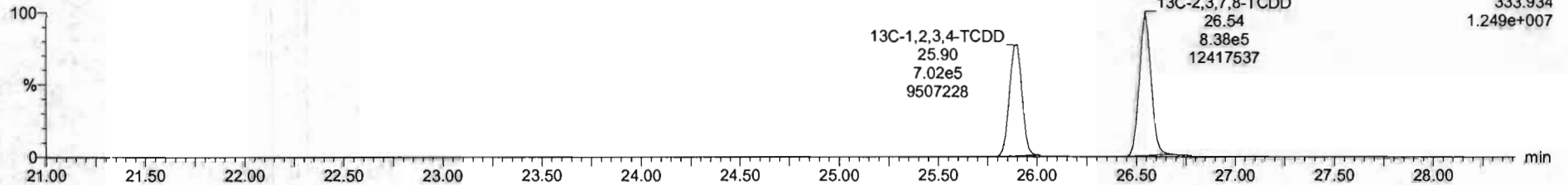
13C-2,3,7,8-TCDD

200528R2_4



F1:Voltage SIR,EI+
331.9368
9.690e+006

200528R2_4



F1:Voltage SIR,EI+
333.934
1.249e+007

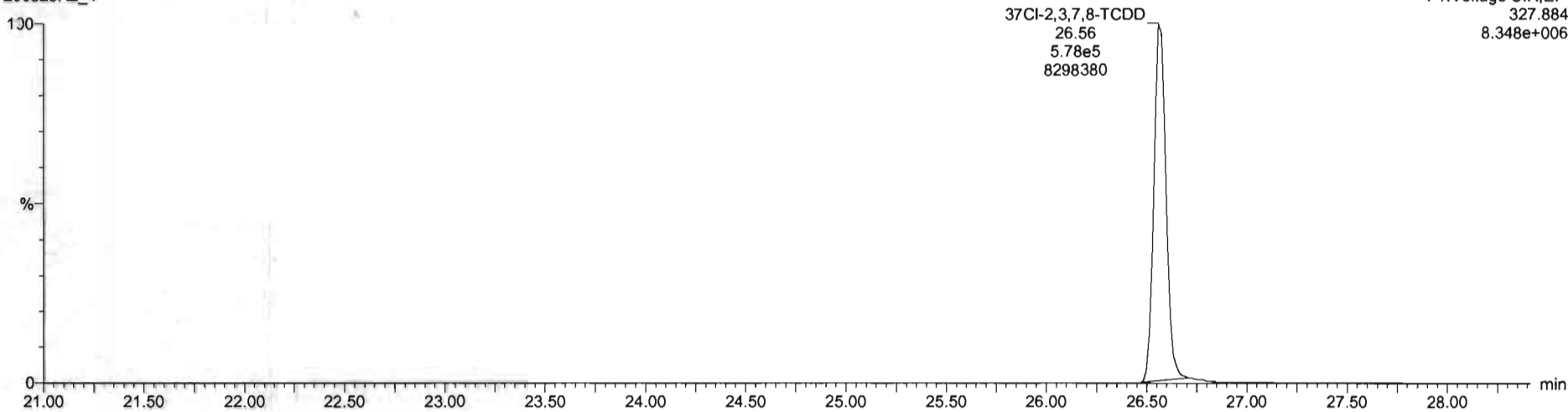
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

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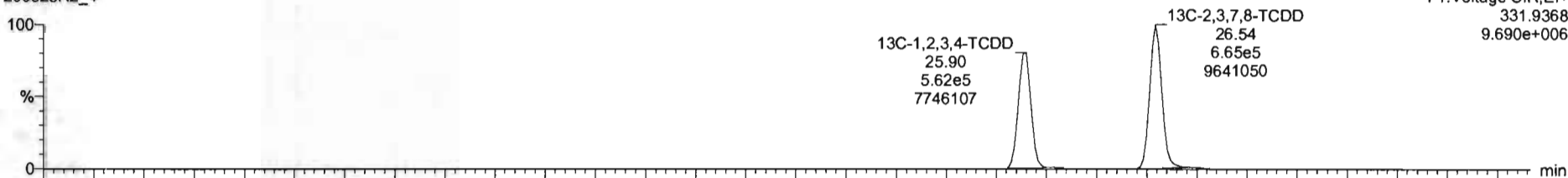
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200528R2_4

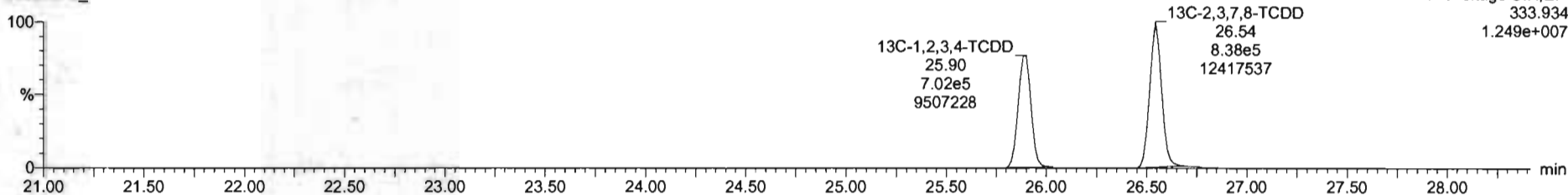


13C-1,2,3,4-TCDD

200528R2_4



200528R2_4



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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

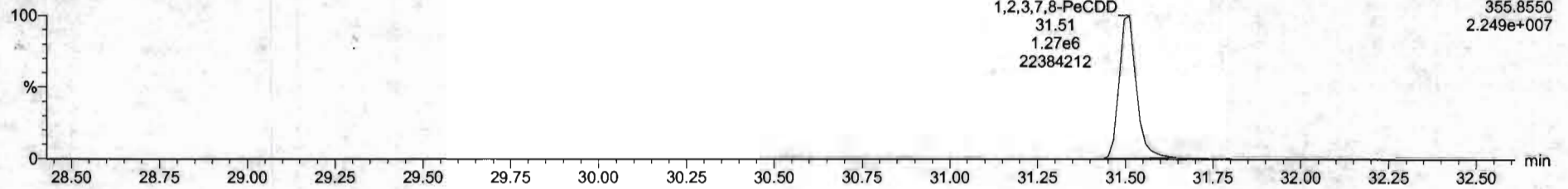
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1,2,3,7,8-PeCDD

200528R2_4

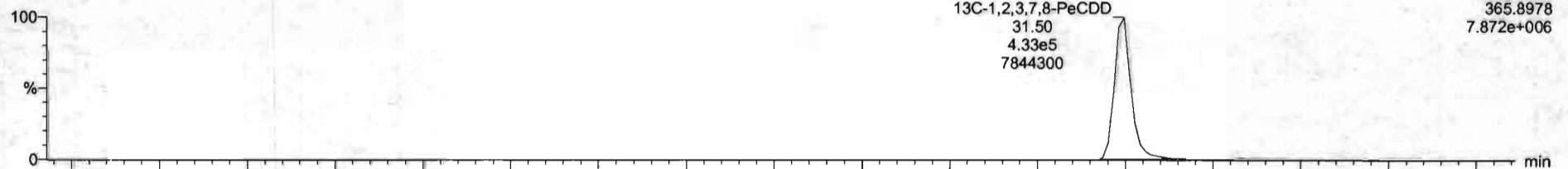


200528R2_4

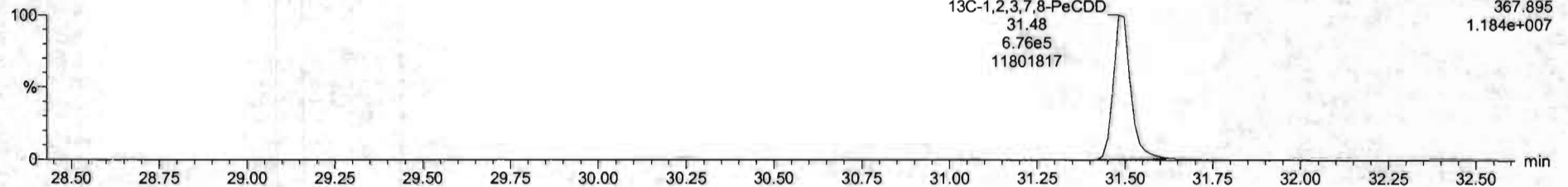


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200528R2_4



200528R2_4



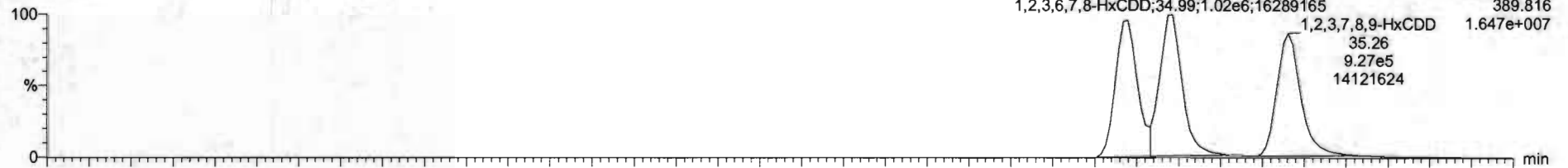
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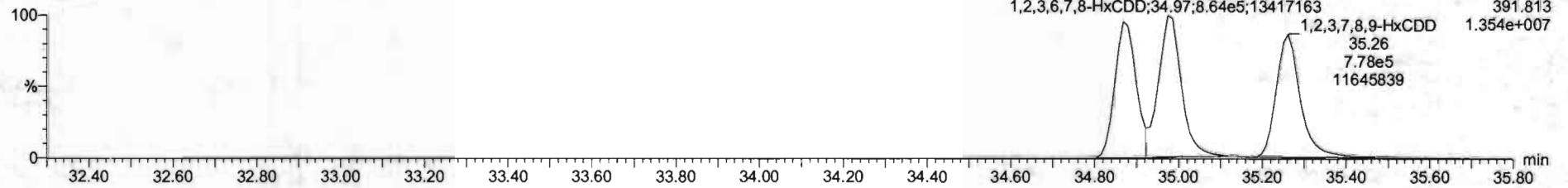
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1,2,3,4,7,8-HxCDD

200528R2_4

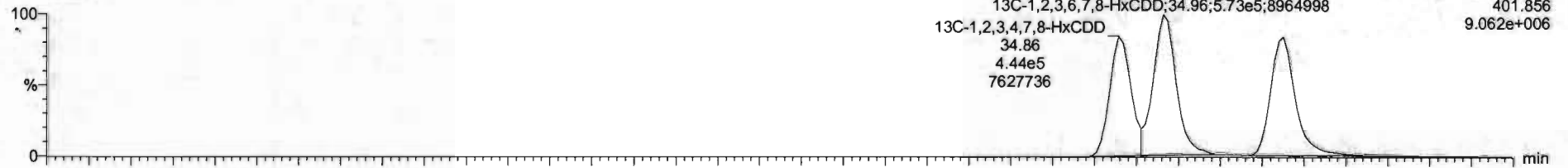


200528R2_4

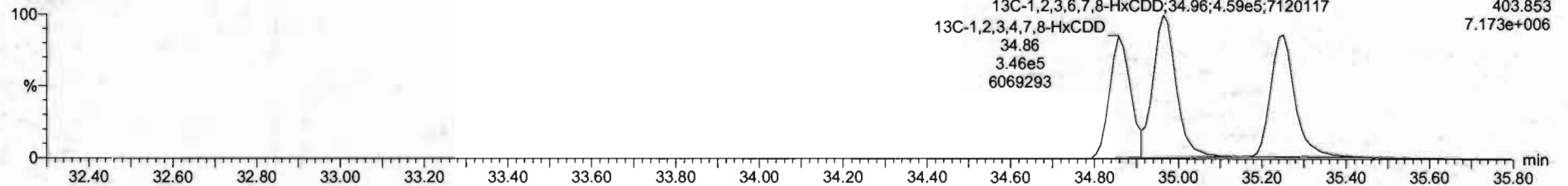


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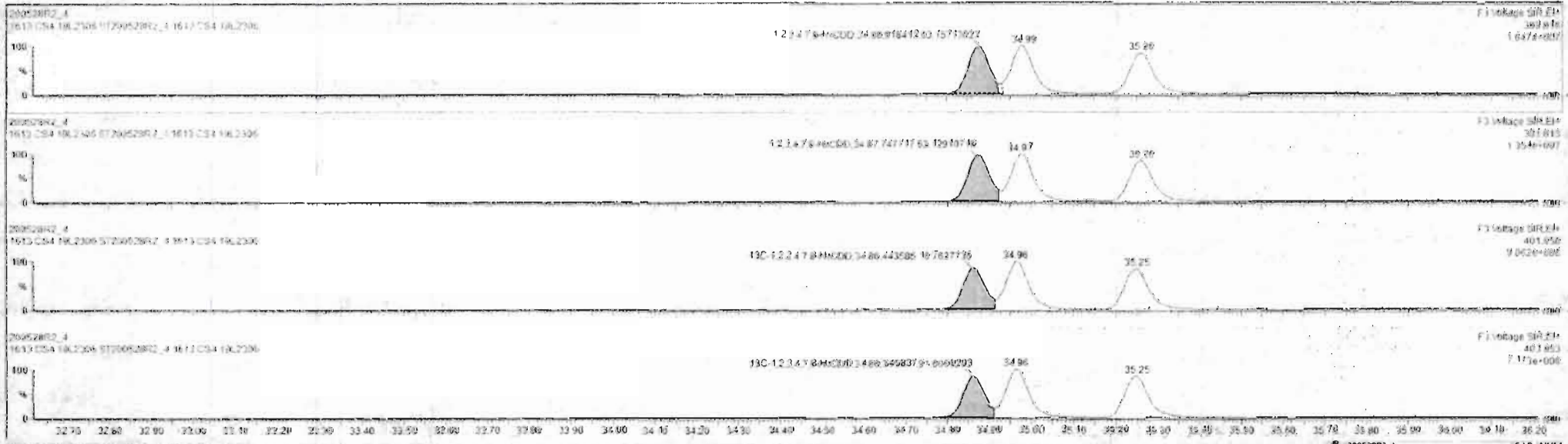


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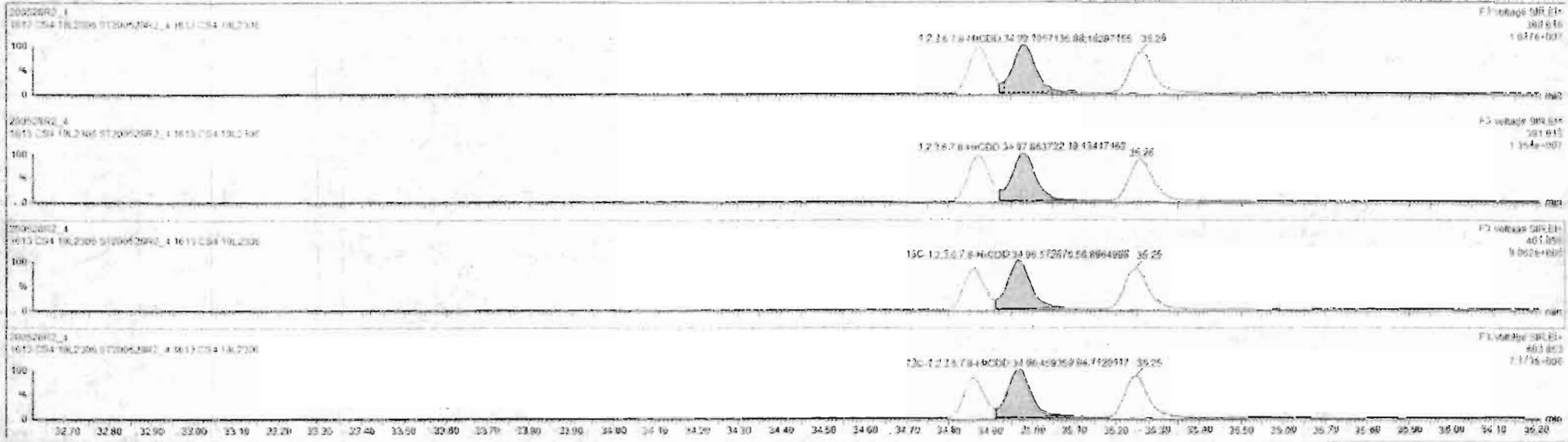




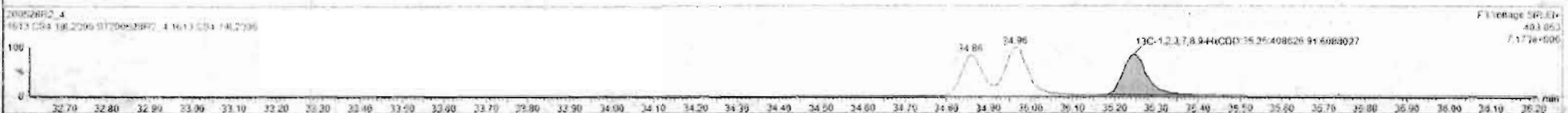
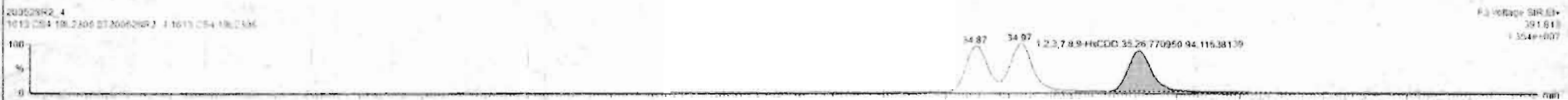
K1	Name	Retp	RA	n/y	RRF	WtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	1.2.3.7.8-TCDD	2.50e6	0.78	NO	0.882	1.000	26.99	1.001	41.2	101	0.129	41.2
2	1.2.3.7.8-HxCDD	2.25e6	0.83	NO	0.6091	1.000	31.51	1.000	205	102	0.0837	205
3	1.2.3.4.7.8-HxCDD	1.67e6	1.23	NO	1.0394	1.000	34.86	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.8921	1.000	34.98	1.001	200	104	0.111	200
5	1.2.3.7.8.9-HxCDD	1.70e6	1.26	NO	0.8865	1.000	35.25	1.000	210	105	0.113	210
6	1.2.3.4.6.7.8-HpCDD	1.25e6	1.02	NO	0.6839	1.000	36.80	1.000	211	105	0.218	211
7	OCDD	2.45e6	0.27	NO	0.9138	1.000	41.77	1.000	397	99.4	0.192	397
8	1.2.3.6-TCDF	6.52e6	0.76	NO	0.7019	1.000	25.88	1.001	42.8	107	0.123	42.8
9	1.2.3.7.8-HxCDF	2.94e6	1.54	NO	0.8925	1.000	28.23	1.000	203	101	0.118	203
10	1.2.3.4.7.8-HpCDF	3.50e6	1.54	NO	0.9348	1.000	31.21	1.000	204	102	0.109	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.16	NO	0.8845	1.000	33.99	1.000	208	104	0.223	208
12	1.2.3.6.7.8-HpCDF	2.16e6	1.18	NO	0.8812	1.000	33.12	1.001	206	103	0.263	206
13	2.3.4.6.7.8-HxCDF	2.96e6	1.19	NO	0.9341	1.000	34.21	1.001	207	103	0.219	207
14	1.2.3.7.8.9-HxCDF	1.60e6	1.26	NO	0.8701	1.000	35.62	1.001	208	104	0.313	208
15	1.2.3.4.6.7.8-HpCDF	1.43e6	0.99	NO	0.8714	1.000	37.35	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HpCDF	1.13e6	0.98	NO	1.0128	1.000	39.33	1.000	214	107	0.227	214
17	OCDF	2.54e6	0.87	NO	0.8065	1.000	41.96	1.000	402	100	0.171	402
18	13C-1.2.3.7.8-TCDD	1.58e6	0.79	NO	1.1563	1.000	26.64	1.025	103	103	0.164	
19	13C-1.2.3.7.8-HxCDD	1.11e6	0.84	NO	0.8489	1.000	31.58	1.216	103	103	0.138	
20	13C-1.2.3.4.7.8-HxCDD	7.89e6	1.28	NO	0.7736	1.000	34.96	1.014	103	103	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.07e6	1.25	NO	1.0127	1.000	34.96	1.017	104	104	0.121	



#	Name	Keep	RA	RY	RF	Wt/Wt	RT	RRT	Conc	Wt/Wt	DL	EMPU
1	1.2.3.7.8-TCDF	1.50e6	0.18	NO	0.0061	1.000	36.96	1.001	41.2	101	0.124	41.1
2	1.2.3.7.8-HxCDD	2.56e6	0.41	NO	0.0041	1.000	31.51	1.000	205	102	0.0017	204
3	1.2.3.7.8-HxCDF	1.87e6	1.23	NO	1.0714	1.000	34.80	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.0020	1.000	34.96	1.001	394	104	0.119	395
5	1.2.3.7.8-HxCDF	1.19e6	1.20	NO	0.0065	1.000	35.26	1.000	210	102	0.133	210
6	1.2.3.4.6.7.8-HxCDD	1.25e6	1.02	NO	0.0033	1.000	36.60	1.000	211	104	0.219	211
7	OCDD	2.45e6	0.97	NO	0.0136	1.000	41.77	1.000	397	104	0.192	397
8	1.2.3.7.8-TCDF	4.12e6	0.76	NO	0.0140	1.000	25.88	1.001	42.0	107	0.123	42.0
9	1.2.3.7.8-HxCDF	1.19e6	1.14	NO	0.0025	1.000	30.23	1.000	203	101	0.100	203
10	1.2.3.4.7.8-HxCDF	1.08e6	1.14	NO	0.0346	1.000	31.21	1.000	204	102	0.169	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.0041	1.000	33.99	1.000	200	104	0.221	200
12	1.2.3.6.7.8-HxCDF	2.16e6	1.10	NO	0.0092	1.000	34.12	1.001	206	103	0.203	206
13	1.2.3.4.6.7.8-HxCDF	2.68e6	1.19	NO	0.0041	1.000	34.71	1.001	207	103	0.219	207
14	1.2.3.7.8-HxCDF	1.68e6	1.20	NO	0.0007	1.000	35.62	1.001	208	104	0.215	208
15	1.2.3.4.6.7.8-HxCDF	1.43e6	0.99	NO	0.0034	1.000	37.59	1.000	213	106	0.213	213
16	1.2.3.4.7.8-HxCDF	1.13e6	0.90	NO	1.0120	1.000	30.33	1.000	214	107	0.227	214
17	OCDF	2.34e6	0.97	NO	0.0254	1.000	41.96	1.000	400	100	0.171	400
18	1.2.3.7.8-TCDD	1.19e6	0.79	NO	1.1563	1.000	26.94	1.000	163	103	0.114	163
19	1.2.3.7.8-HxCDD	1.11e6	0.84	NO	0.0490	1.000	31.00	1.210	103	103	0.176	103
20	1.2.3.4.7.8-HxCDD	7.39e6	1.23	NO	0.7790	1.000	34.06	1.014	103	103	0.172	103
21	1.2.3.7.8-HxCDD	1.02e6	1.25	NO	1.0187	1.000	34.96	1.017	104	104	0.171	104



#	Name	Resp	RA	inj	RRF	wtdwt	RT	RRT	Conc	%Rec	DL	IMP
1	1,2,3,7,8-TCDF	0.50e6	0.76	NO	0.8863	1.000	26.56	1.091	41.7	102	0.124	41.4
2	1,2,3,7,8-PeCDD	2.36e6	0.43	NO	0.8051	1.000	31.51	1.000	205	102	0.0837	205
3	1,2,3,4,7,8-HxCDF	1.67e6	1.22	NO	1.0334	1.000	34.55	1.001	204	102	0.115	204
4	1,2,3,6,7,8-HxCDF	1.92e6	1.22	NO	0.9923	1.000	34.99	1.001	209	104	0.111	209
5	1,2,3,7,8,9-HxCDD	1.70e6	1.20	NO	0.6868	1.000	35.26	1.000	210	105	0.133	210
6	1,2,3,4,6,7,8-HpCDE	1.25e6	1.62	NO	0.8830	1.000	38.50	1.000	211	105	0.133	211
7	OCDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.100	397
8	1,2,3,6-TCDF	6.53e6	0.76	NO	0.7510	1.000	25.68	1.001	42.0	101	0.123	42.0
9	1,2,3,7,8-HxCDF	2.84e6	1.54	NO	0.8920	1.000	30.21	1.000	207	101	0.119	207
10	1,2,3,7,8-HpCDF	2.06e6	1.54	NO	0.9345	1.000	31.21	1.000	204	102	0.109	204
11	1,2,3,4,7,8-HxCDF	1.67e6	1.16	NO	0.8845	1.000	33.95	1.000	200	104	0.221	200
12	1,2,3,6,7,8-HxCDF	2.16e6	1.10	NO	0.8292	1.000	34.12	1.001	206	103	0.203	206
13	1,2,3,6,7,8-HpCDF	2.00e6	1.19	NO	0.9241	1.000	34.71	1.001	207	103	0.219	207
14	1,2,3,7,8,9-HxCDF	1.60e6	1.20	NO	0.8157	1.000	35.42	1.001	200	104	0.313	200
15	1,2,3,4,6,7,8-HpCDE	1.43e6	0.99	NO	0.8734	1.000	37.39	1.000	213	106	0.213	213
16	1,2,3,4,7,8,9-HpCDE	1.13e6	0.98	NO	1.0128	1.000	39.33	1.000	214	107	0.227	214
17	OCDF	3.54e6	0.57	NO	0.8095	1.000	41.96	1.000	402	100	0.171	402
18	1,2,3,7,8-TCDF	1.56e6	0.75	NO	1.1567	1.000	28.54	1.025	103	103	0.164	
19	1,2,3,7,8-PeCDD	1.11e6	0.64	NO	0.8460	1.000	31.50	1.210	103	103	0.130	
20	1,2,3,4,7,8-HxCDE	7.89e6	1.28	NO	0.7798	1.000	34.96	1.014	103	103	0.172	
21	1,2,3,6,7,8-HpCDD	1.03e6	1.35	NO	1.0187	1.000	34.96	1.017	104	104	0.121	



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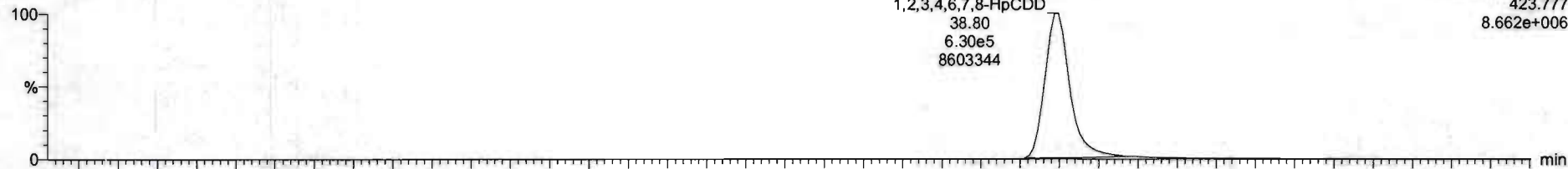
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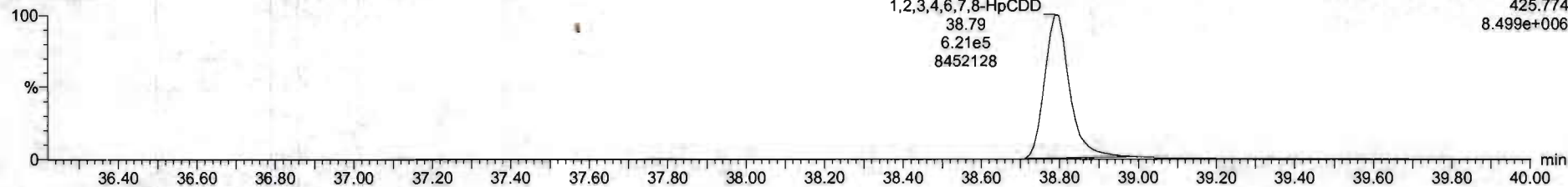
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1,2,3,4,6,7,8-HpCDD

200528R2_4

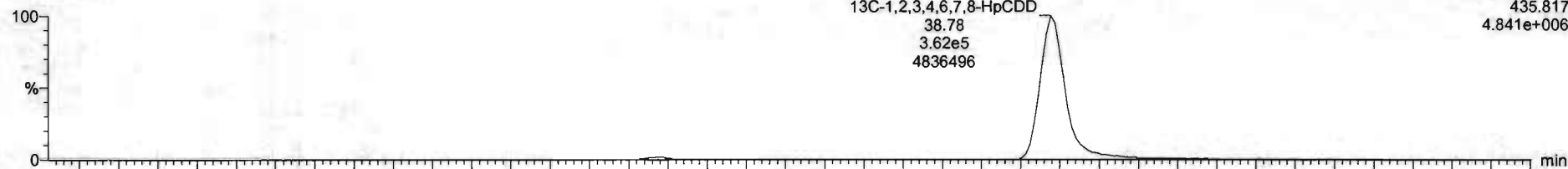


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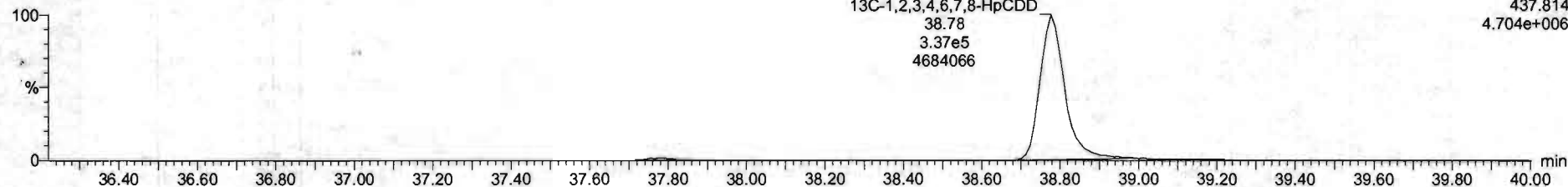


13C-1,2,3,4,6,7,8-HpCDD

200528R2_4



200528R2_4



ID	Name	Resp	RA	n/y	RRF	IntVal	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.50e6	0.76	NO	0.8983	1.000	26.96	1.001	41.2	103	0.124	41.2
2	1,2,3,7,8-PeCDD	2.06e6	0.83	NO	0.8081	1.000	31.51	1.000	205	102	0.6837	205
3	1,2,3,4,7,8-HxCDD	1.67e6	1.23	NO	1.0334	1.000	34.80	1.001	204	102	0.115	204
4	1,2,3,6,7,8-HxCDD	1.92e6	1.22	NO	0.8927	1.000	34.99	1.001	209	104	0.111	209
5	1,2,3,7,8,9-HxCDD	1.76e6	1.26	NO	0.8665	1.000	35.25	1.000	210	105	0.133	210
6	1,2,3,4,6,7,8-HpCDD	1.25e6	1.02	NO	0.8839	1.000	36.80	1.000	211	105	0.210	211
7	CDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.192	397
8	2,3,7,8-TCDF	6.52e6	0.76	NO	0.7510	1.000	26.68	1.001	42.0	107	0.123	42.0
9	1,2,3,7,8-HxCDF	3.94e6	1.54	NO	0.8926	1.000	36.21	1.000	203	101	0.118	203
10	1,2,3,4,7,8-PeCDF	3.06e6	1.54	NO	0.9349	1.000	31.21	1.000	204	102	0.109	204
11	1,2,3,4,7,8-HxCDF	1.87e6	1.16	NO	0.8845	1.000	33.99	1.000	208	104	0.221	208
12	1,2,3,6,7,8-HxCDF	2.16e6	1.10	NO	0.8062	1.000	34.12	1.001	208	103	0.203	208
13	2,3,4,6,7,8-HxCDF	2.00e6	1.19	NO	0.9341	1.000	34.71	1.001	207	103	0.219	207
14	1,2,3,7,8,9-HxCDF	1.60e6	1.20	NO	0.8787	1.000	35.62	1.001	208	104	0.313	208
15	1,2,3,4,6,7,8-HpCDF	1.43e6	0.99	NO	0.8734	1.000	37.39	1.000	213	106	0.213	213
16	1,2,3,4,7,8,9-HpCDF	1.13e6	0.98	NO	1.0128	1.000	38.32	1.000	214	107	0.227	214
17	CDF	2.54e6	0.87	NO	0.8095	1.000	41.96	1.000	402	100	0.171	402
18	1,2,3,7,8-TCDF	1.56e6	0.79	NO	1.1563	1.000	26.54	1.025	103	103	0.164	
19	1,2,3,4,6,7,8-HpCDF	1.11e6	0.84	NO	0.8490	1.000	31.30	1.216	103	103	0.139	
20	1,2,3,4,7,8-HxCDF	7.98e6	1.28	NO	0.7790	1.000	34.90	1.014	103	103	0.172	
21	1,2,3,4,6,7,8-HpCDD	1.03e6	1.25	NO	1.0167	1.000	34.96	1.017	104	104	0.131	



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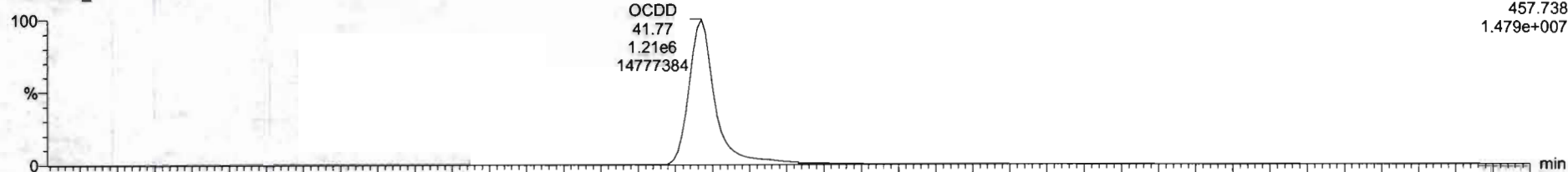
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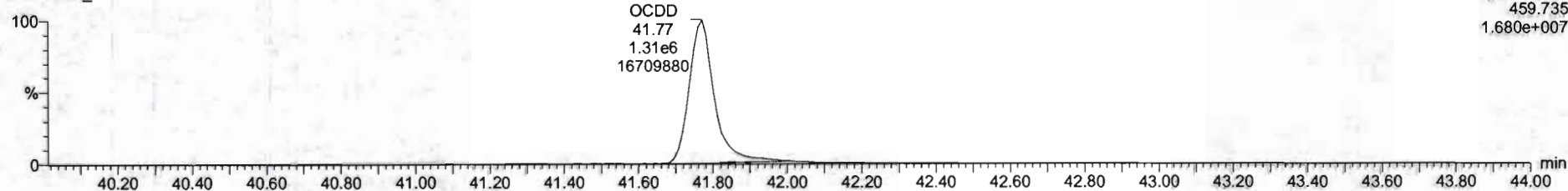
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1.479e+007

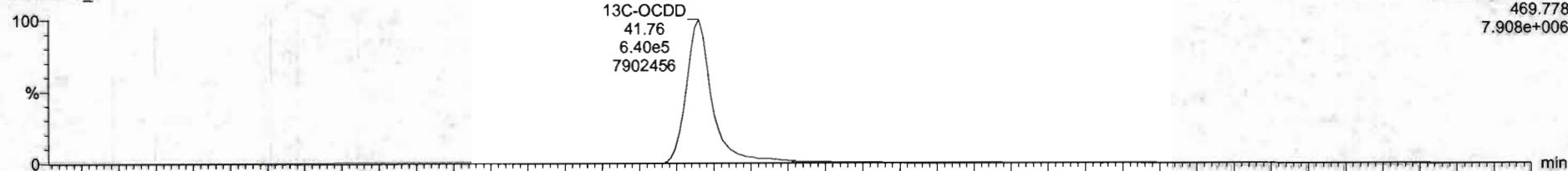
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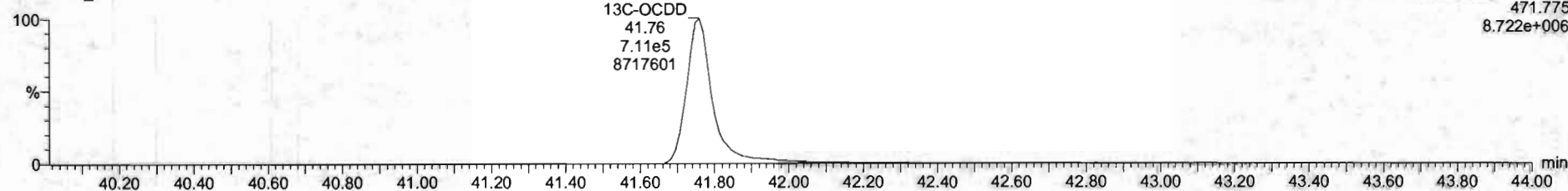
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200528R2_4



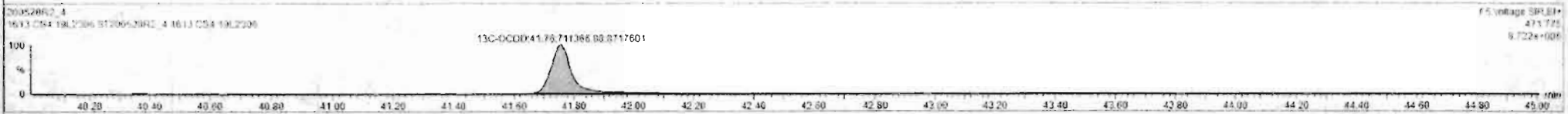
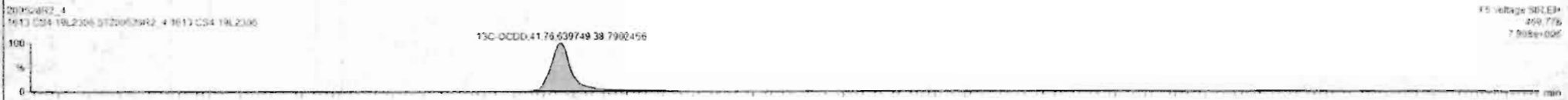
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200528R2_4



F5: Voltage SIR, EI+
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#	Name	Resp	RA	inj	RRF	wt/vol	RT	NRT	Conc	%Rec	DL	SI/PC
1	2.3.7.6-TCDD	3.56e5	0.76	NO	0.8883	1.000	28.56	1.001	41.2	101	0.134	41.2
2	1.2.3.7.5-PeCDD	2.06e5	0.63	NO	0.9051	1.000	31.01	1.000	205	102	0.6837	205
3	1.2.3.4.7.8-HxCD	1.07e5	1.23	NO	1.0334	1.000	34.80	1.001	284	102	0.115	284
4	1.2.3.6.7.8-HxCDD	1.92e5	1.22	NO	0.8923	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.8.9-HxCDD	1.70e5	1.20	NO	0.8669	1.000	35.26	1.000	210	105	0.133	210
6	1.2.3.4.6.7.8-HpCDD	1.25e5	1.02	NO	0.8839	1.000	36.80	1.000	211	105	0.115	211
7	OCDD	2.45e5	0.87	NO	0.9136	1.000	41.77	1.000	307	99.4	0.192	307
8	2.3.7.6-TCDF	4.52e5	0.76	NO	0.7510	1.000	28.56	1.001	42.8	107	0.123	42.8
9	1.2.3.7.8-PeCDF	2.94e5	1.54	NO	0.8905	1.000	30.23	1.000	203	101	0.118	203
10	1.2.3.4.7.8-HxCDF	1.00e5	1.54	NO	0.9348	1.000	31.21	1.000	204	102	0.100	204
11	1.2.3.4.7.8-HxCDF	1.87e5	1.18	NO	0.8545	1.000	33.99	1.000	205	104	0.221	208
12	1.2.3.6.7.8-HxCDF	2.16e5	1.10	NO	0.8862	1.000	34.12	1.001	206	103	0.205	206
13	1.2.3.4.7.8-HxCDF	2.00e5	1.19	NO	0.9383	1.000	34.71	1.001	207	103	0.219	207
14	1.2.3.7.8.9-HxCDF	1.60e5	1.20	NO	0.8707	1.000	35.62	1.001	208	104	0.313	208
15	1.2.3.4.6.7.8-HpCDF	1.43e5	0.99	NO	0.8734	1.000	37.55	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HpCDF	1.13e5	0.90	NO	1.0126	1.000	39.33	1.000	214	107	0.227	214
17	OCDF	2.54e5	0.87	NO	0.8085	1.000	41.96	1.000	402	100	0.171	402
18	13C-2.3.7.6-TCDD	1.58e5	0.75	NO	1.1583	1.000	28.54	1.025	103	103	0.184	
19	13C-1.2.3.7.8-PeCDD	1.11e5	0.64	NO	0.8490	1.000	31.50	1.216	103	103	0.136	
20	13C-1.2.3.4.7.8-HxCDD	7.88e5	1.28	NO	0.7790	1.000	34.86	1.014	103	103	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.03e5	1.25	NO	1.0187	1.000	34.96	1.017	104	104	0.131	



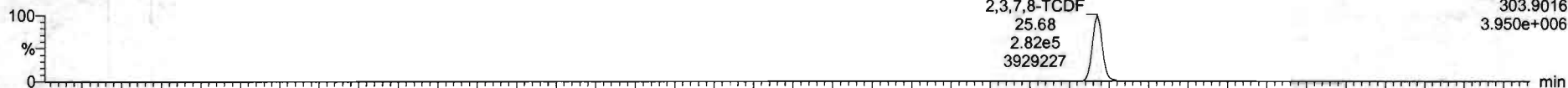
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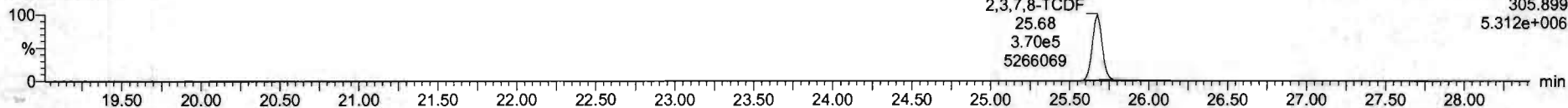
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2,3,7,8-TCDF

200528R2_4

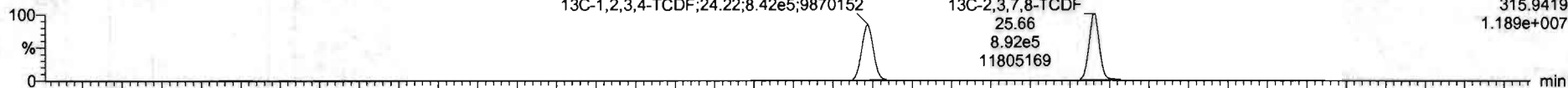


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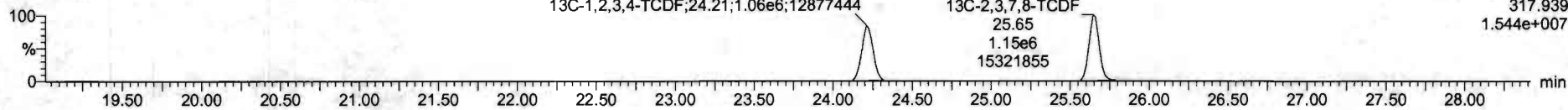


13C-2,3,7,8-TCDF

200528R2_4

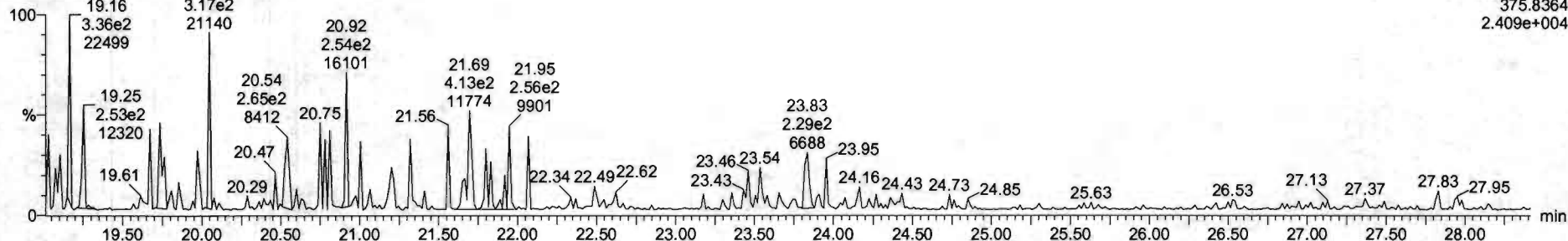


200528R2_4



DPE1

200528R2_4

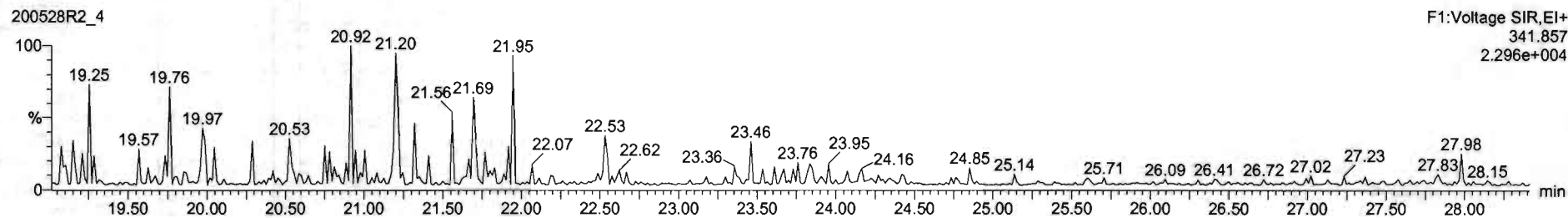
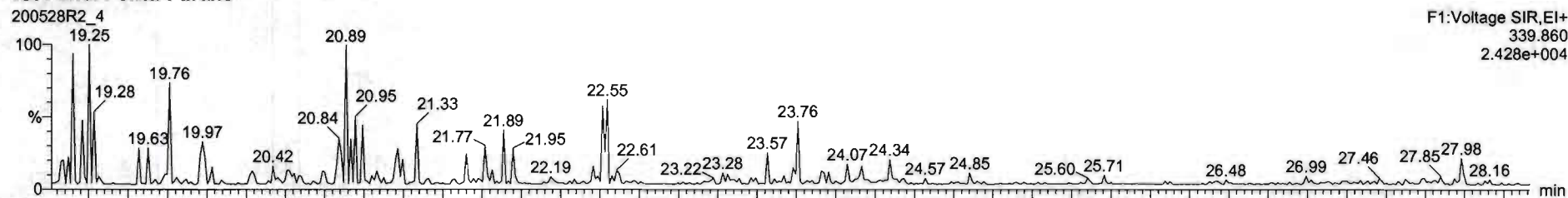


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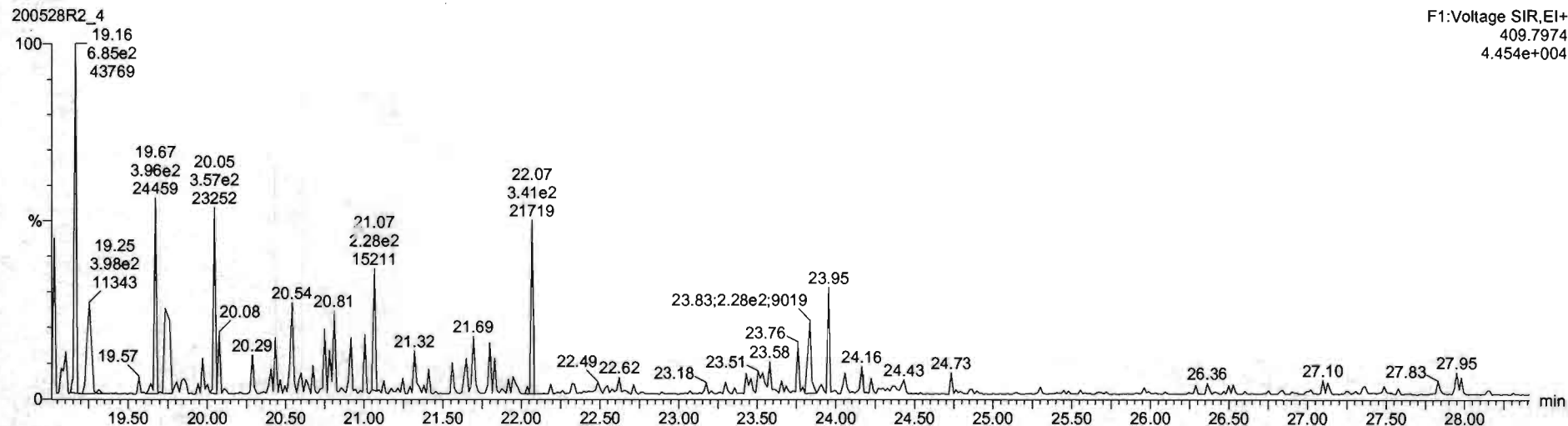
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1st Func. Penta-Furans



DPE6



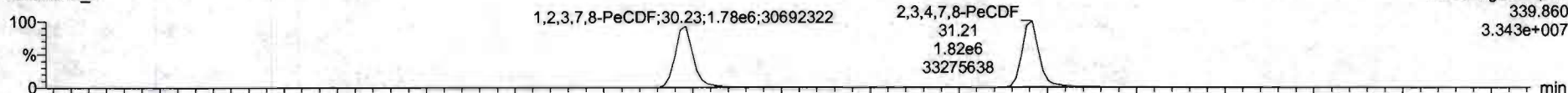
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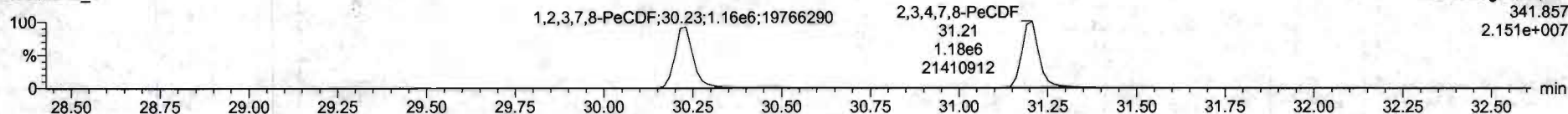
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1,2,3,7,8-PeCDF

200528R2_4

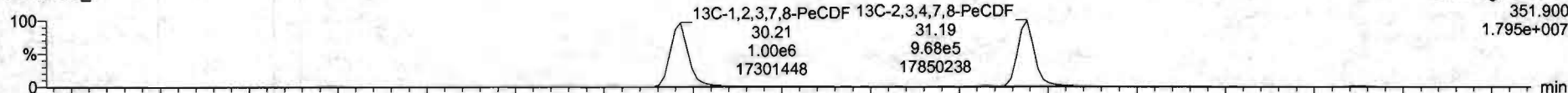


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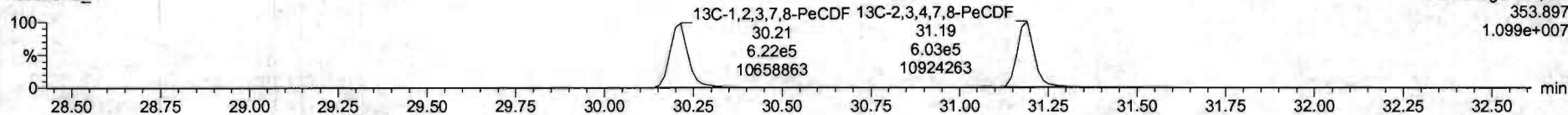


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200528R2_4

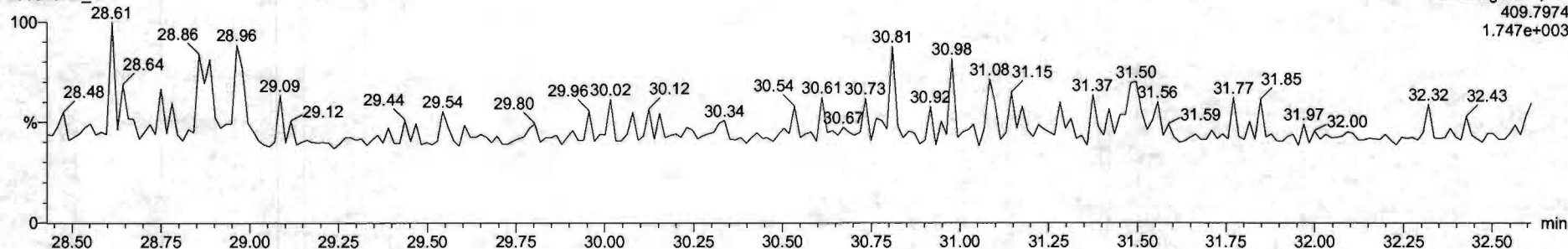


200528R2_4



DPE2

200528R2_4



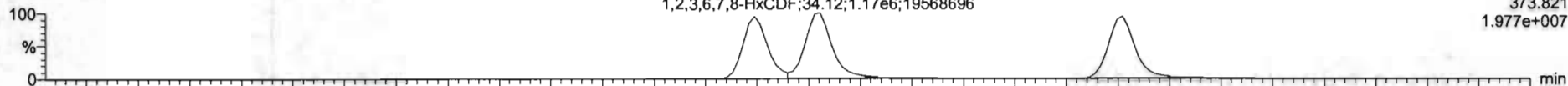
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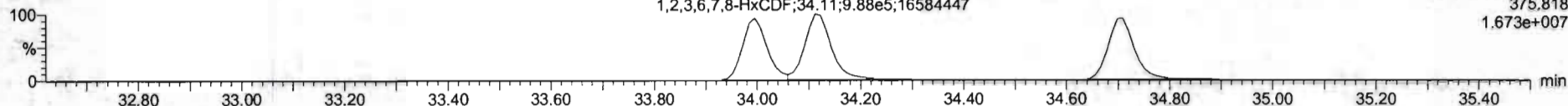
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1,2,3,4,7,8-HxCDF

200528R2_4

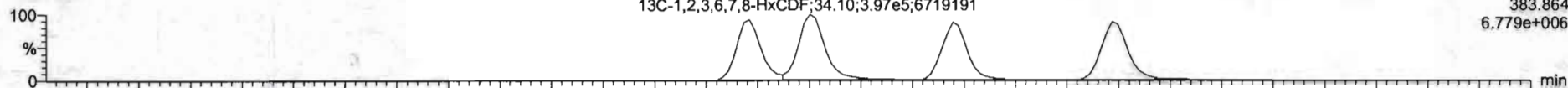


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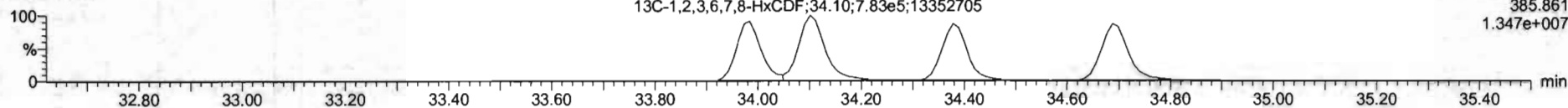


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200528R2_4

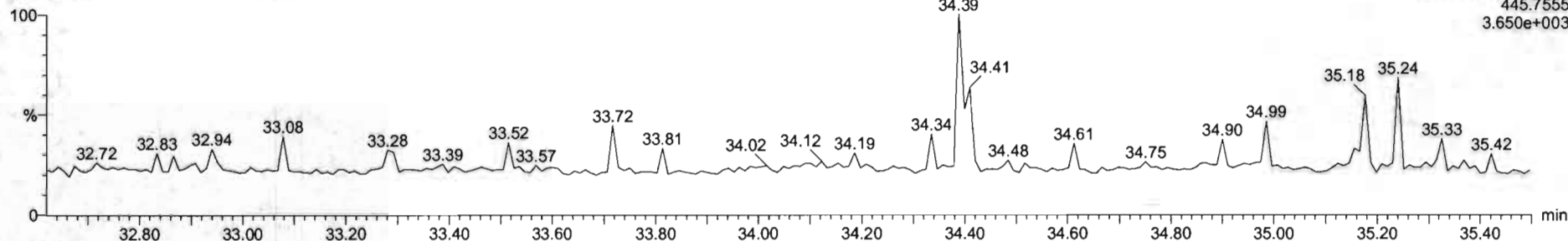


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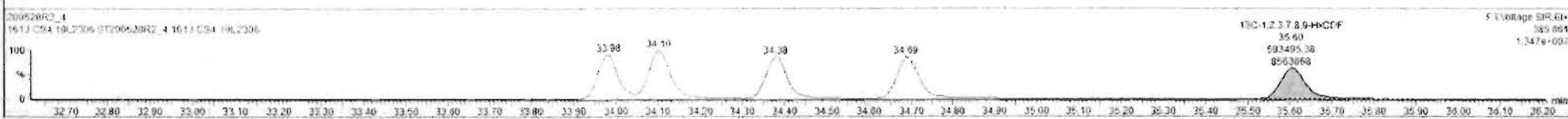
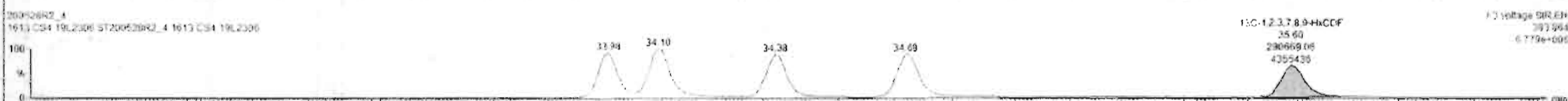


DPE3

200528R2_4



#	Name	Resp	RA	ntf	RRF	wb/wr	RT	RRT	Conc	%Rec	DL	ERFC
1	1.2.3.7.8-TCDD	3.56e5	0.78	NO	0.2882	1.000	26.96	1.001	41.2	103	0.124	11.2
2	1.2.3.7.8-HxCDD	2.06e6	0.83	NO	0.9081	1.000	31.91	1.000	285	100	0.0837	209
3	1.2.3.4.7.8-HxCDD	1.87e6	1.23	NO	1.0324	1.000	34.88	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.8523	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.8.9-HxCDD	1.78e6	1.20	NO	0.8865	1.000	35.26	1.000	240	105	0.133	240
6	1.2.3.4.6.7.8-HpCDD	1.25e6	1.02	NO	0.8639	1.000	36.86	1.000	211	106	0.128	211
7	OCDD	2.45e6	0.87	NO	0.9136	1.000	41.27	1.000	387	99.4	0.182	387
8	1.2.3.7.8-TCDF	6.52e5	0.76	NO	0.7510	1.000	25.68	1.001	42.6	107	0.123	42.6
9	1.2.3.7.8-HxCDF	2.94e6	1.54	NO	0.8925	1.000	30.23	1.000	283	101	0.118	283
10	1.2.3.4.7.8-HxCDF	3.06e6	1.54	NO	0.9348	1.000	31.21	1.000	204	105	0.199	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.8845	1.000	33.95	1.000	268	104	0.221	268
12	1.2.3.6.7.8-HxCDF	2.16e6	1.10	NO	0.8892	1.000	34.12	1.001	200	103	0.200	200
13	1.2.3.4.6.7.8-HxCDF	2.00e6	1.19	NO	0.9341	1.000	34.71	1.001	207	102	0.219	207
14	1.2.3.7.8.9-HxCDF	1.80e6	1.28	NO	0.8787	1.000	35.62	1.001	290	104	0.313	290
15	1.2.3.4.6.7.8-HpCDF	1.43e6	0.99	NO	0.8714	1.000	37.39	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HpCDF	1.13e6	0.98	NO	1.0128	1.000	38.32	1.000	214	107	0.221	214
17	OCDF	2.54e6	0.87	NO	0.8085	1.000	41.96	1.000	403	100	0.178	402
18	13C-1.2.3.7.8-TCDD	1.50e6	0.75	NO	1.1563	1.000	26.54	1.026	103	101	0.194	
19	13C-1.2.3.7.8-HxCDD	1.11e6	0.64	NO	0.8468	1.000	31.90	1.216	193	103	0.130	
20	13C-1.2.3.4.7.8-HxCDD	7.09e5	1.28	NO	0.7790	1.000	34.96	1.014	103	102	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.03e6	1.25	NO	1.0187	1.000	34.98	1.013	104	104	0.124	



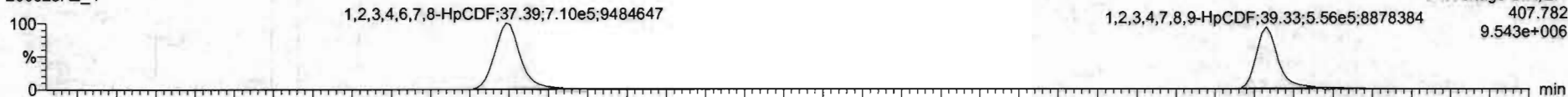
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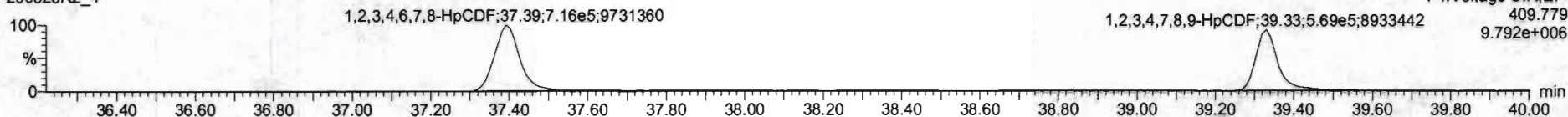
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1,2,3,4,6,7,8-HpCDF

200528R2_4

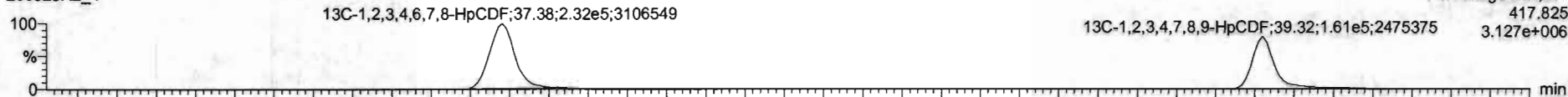


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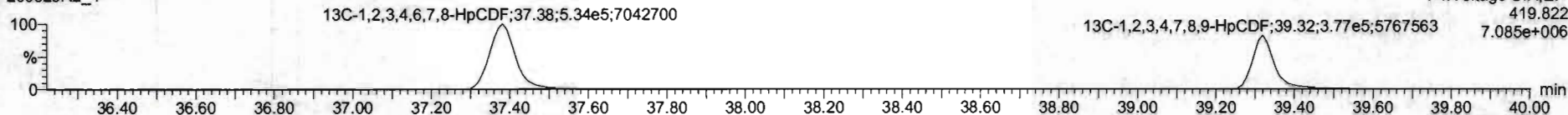


13C-1,2,3,4,6,7,8-HpCDF

200528R2_4

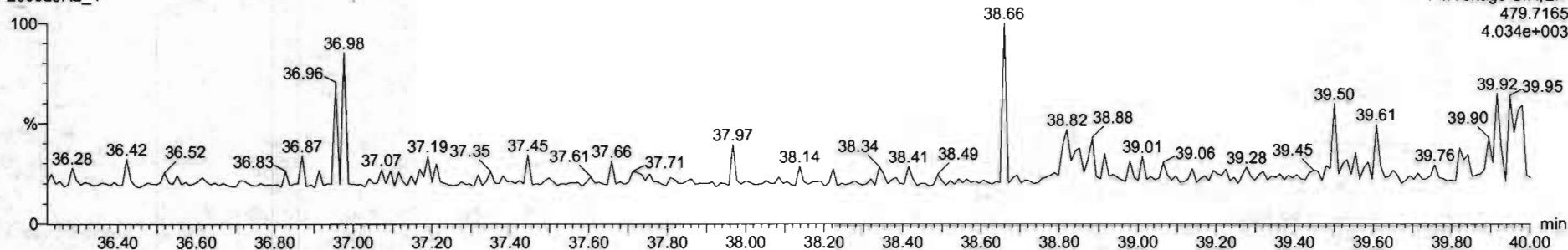


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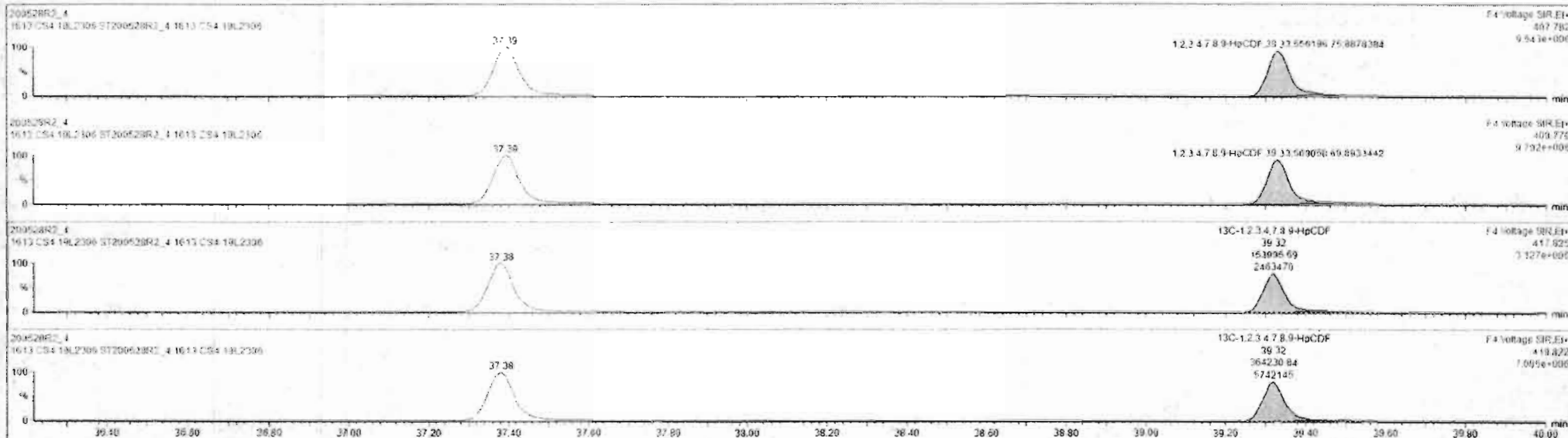


DPE4

200528R2_4



#	Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.56e5	0.78	NO	0.8583	1.000	26.56	1.001	41.3	103	0.134	41.2
2	1,2,3,7,8-PeCDD	2.06e6	0.63	NO	0.9081	1.000	31.51	1.000	205	102	0.9837	205
3	1,2,3,4,7,8-HxCDD	1.87e6	1.23	NO	1.0334	1.000	34.86	1.001	204	102	0.115	204
4	1,2,3,8,7,8-HxCDD	1.82e6	1.22	NO	0.8521	1.000	34.90	1.001	200	104	0.111	200
5	1,2,3,7,9,8-HxCDD	1.70e6	1.20	NO	0.8969	1.000	35.26	1.000	210	105	0.133	210
6	1,2,3,4,6,7,8-HxCDD	1.25e6	1.02	NO	0.8631	1.000	36.90	1.000	211	105	0.219	211
7	OCDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.190	397
8	2,3,7,8-TCDF	6.52e5	0.76	NO	0.7510	1.000	25.66	1.001	42.6	107	0.123	42.2
9	1,2,3,7,8-PeCDF	2.54e6	1.54	NO	0.8925	1.000	30.23	1.000	203	101	0.110	203
10	1,2,3,4,7,8-HxCDF	3.00e6	1.54	NO	0.9346	1.000	31.21	1.000	204	107	0.109	204
11	1,2,3,4,7,8-HxCDF	1.87e6	1.18	NO	0.8845	1.000	33.99	1.000	203	104	0.221	206
12	1,2,3,6,7,8-HxCDF	2.16e6	1.18	NO	0.8861	1.000	34.12	1.001	206	103	0.203	206
13	2,3,4,6,7,8-HxCDF	2.06e6	1.19	NO	0.9341	1.000	34.71	1.001	207	107	0.219	207
14	1,2,3,7,9,8-HxCDF	1.60e6	1.20	NO	0.8707	1.000	35.62	1.001	208	104	0.213	208
15	1,2,3,4,6,7,8-HxCDF	1.43e6	0.95	NO	0.8734	1.000	37.35	1.000	215	106	0.213	213
16	1,2,3,4,7,8,9-HpCDF	1.15e6	0.60	NO	1.0128	1.000	39.33	1.000	214	107	5.327	214
17	OCDF	2.54e6	0.87	NO	0.8085	1.000	41.96	1.000	402	100	0.171	402
18	13C-2,3,7,8-TCDD	1.54e6	0.75	NO	1.1563	1.000	26.54	1.025	107	103	0.164	
19	13C-1,2,3,7,8-PeCDD	1.11e6	0.64	NO	0.8469	1.000	31.50	1.216	103	103	0.138	
20	13C-1,2,3,4,7,8-HxCDD	7.89e5	1.26	NO	0.7790	1.000	34.96	1.014	103	103	0.132	
21	13C-1,2,3,6,7,8-HxCDD	1.02e6	1.25	NO	1.0167	1.000	34.96	1.017	104	104	0.121	



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200528R2_4 CAP NUM

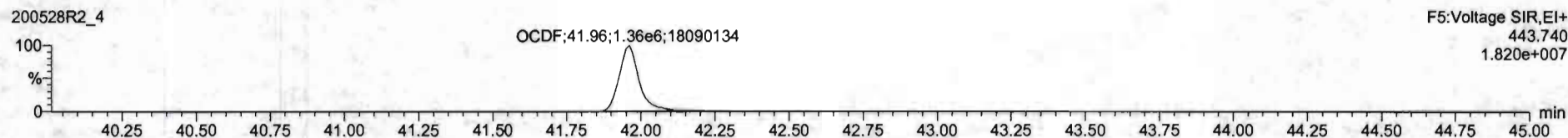
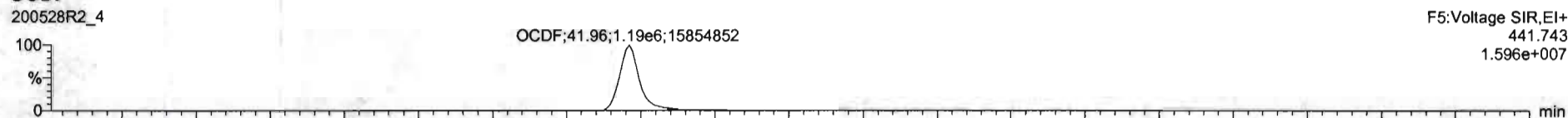
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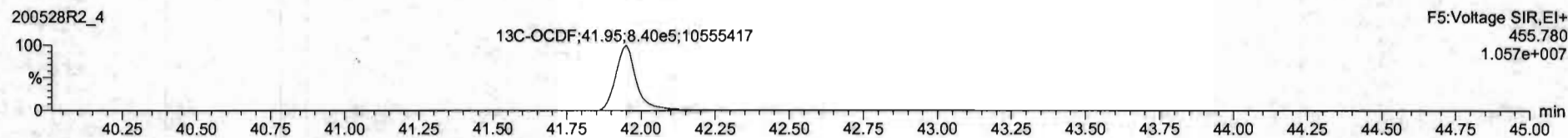
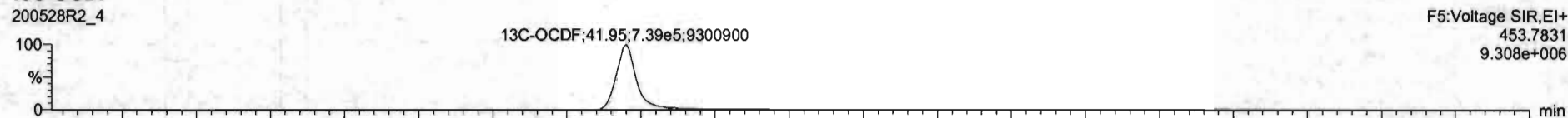
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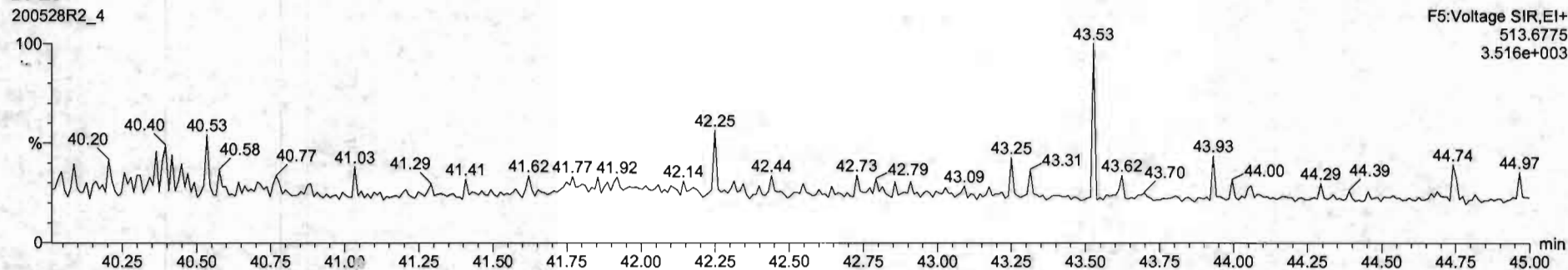
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13C-OCDF



DPE5

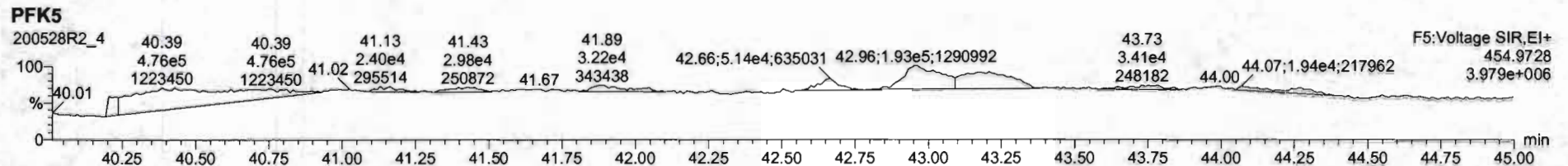
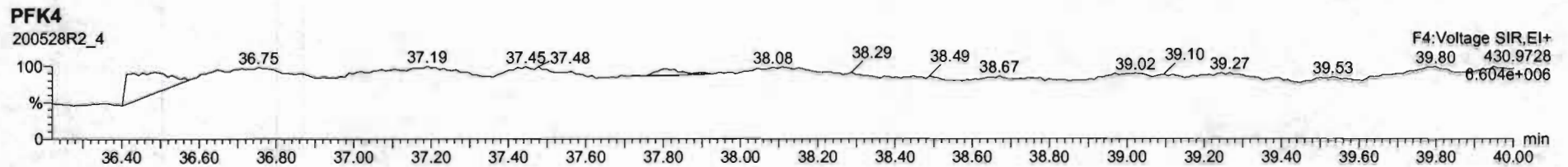
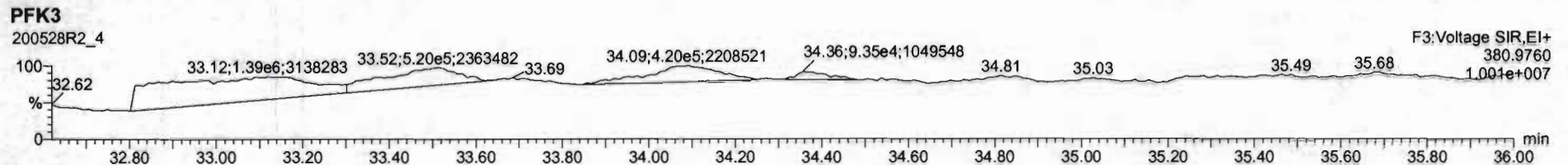
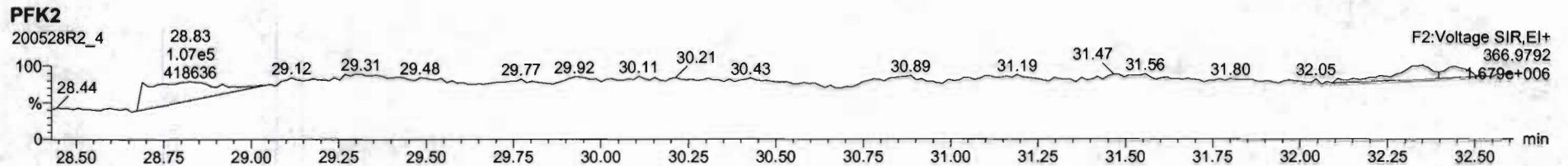
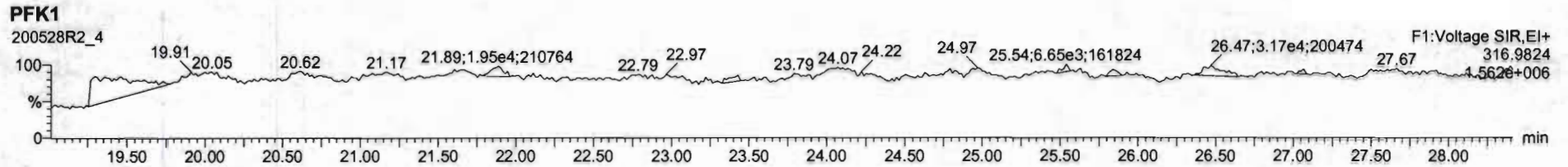


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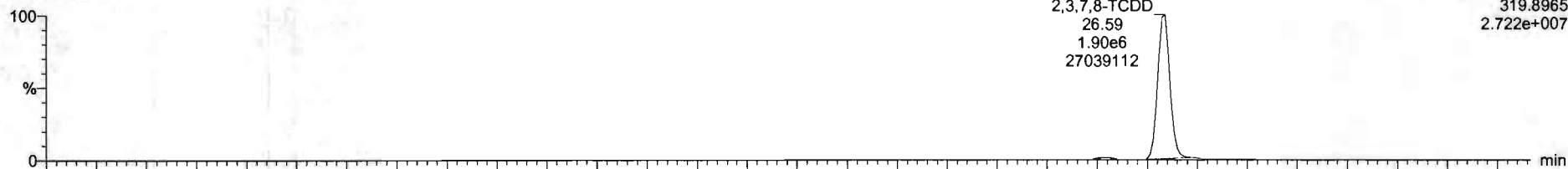
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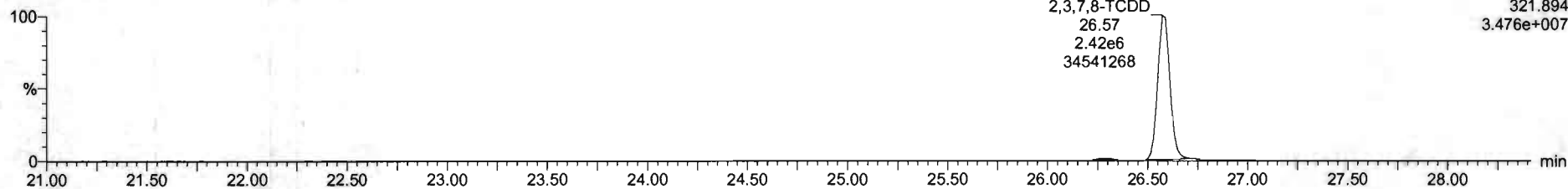
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2,3,7,8-TCDD

200528R2_5

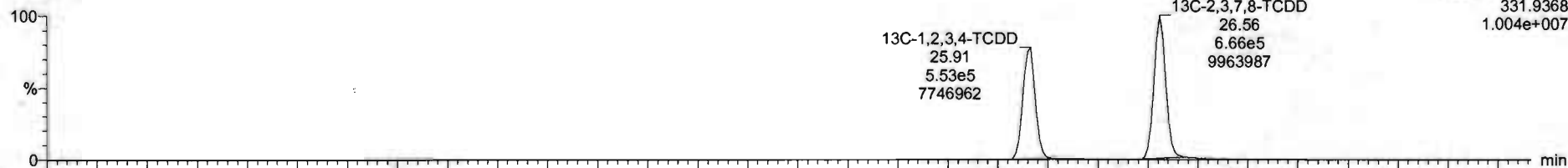


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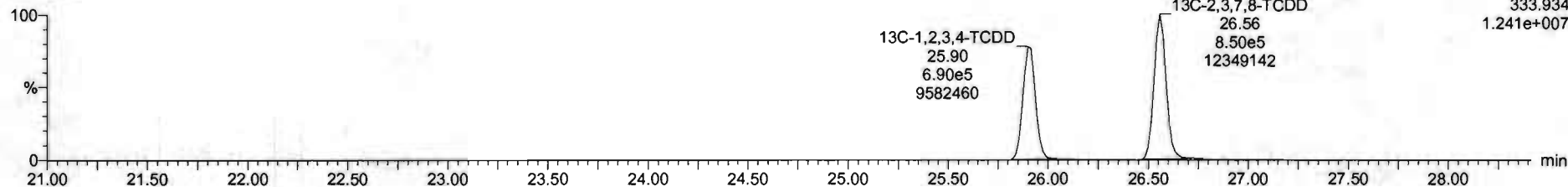


13C-2,3,7,8-TCDD

200528R2_5



200528R2_5



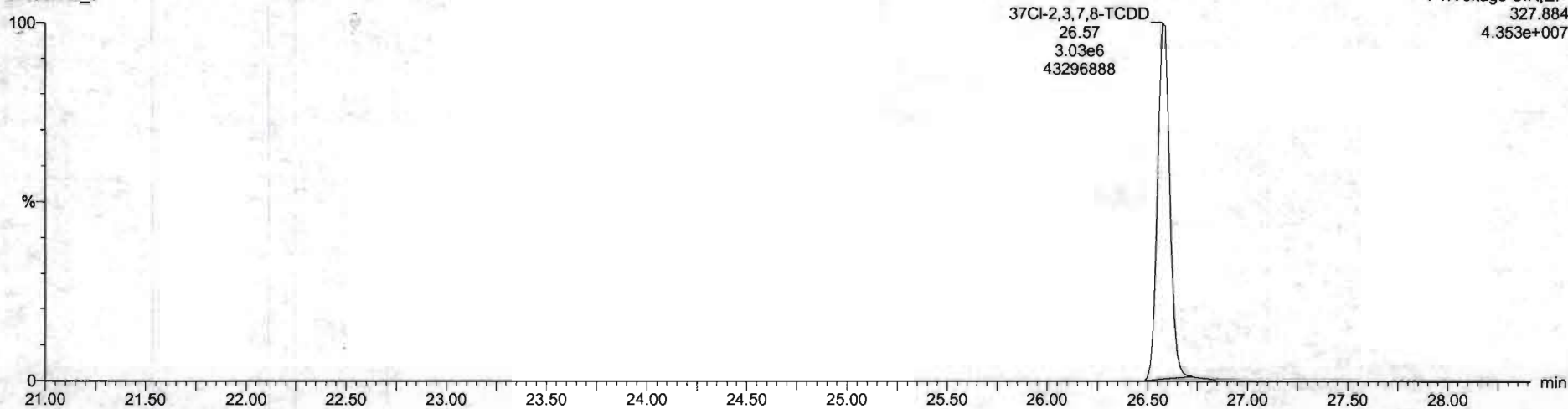
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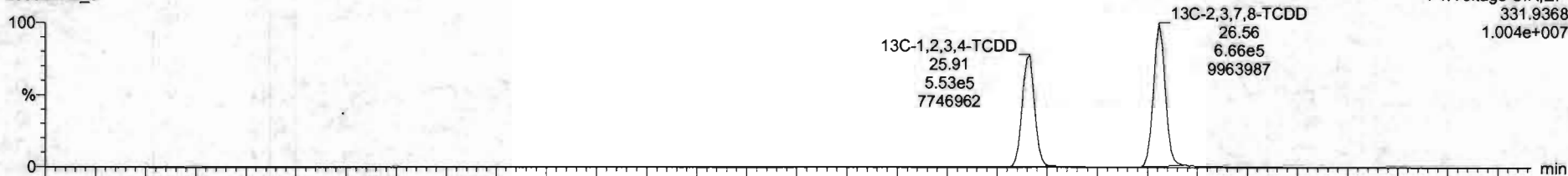
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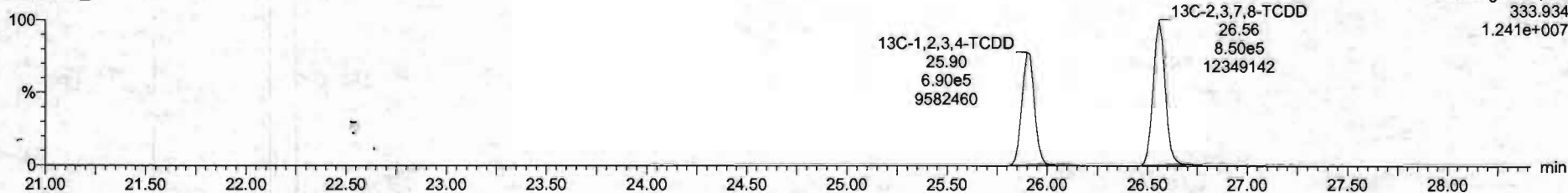


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200528R2_5



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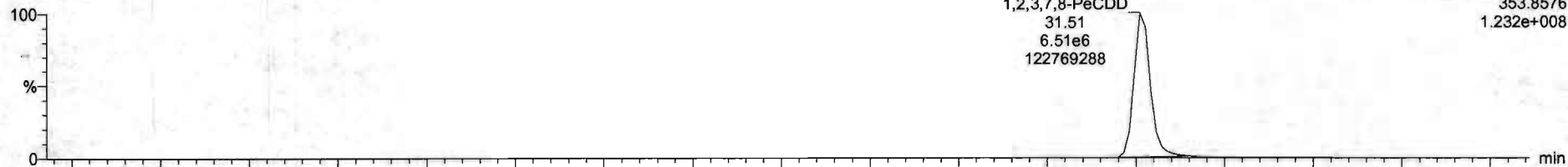
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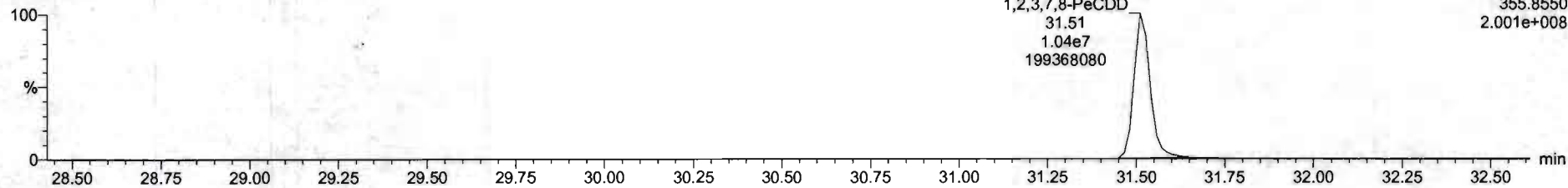
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1,2,3,7,8-PeCDD

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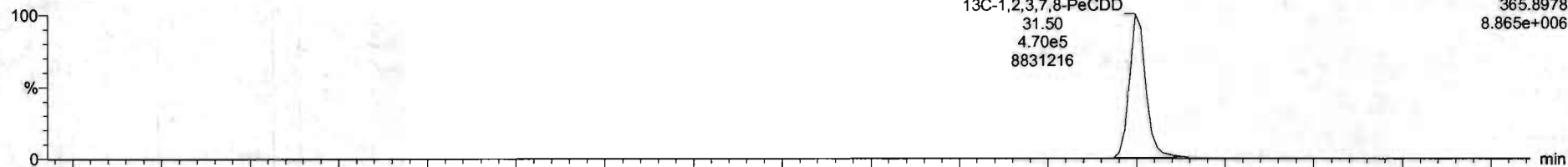


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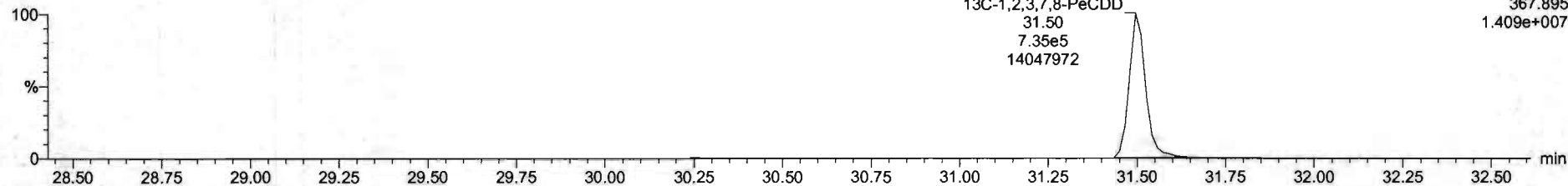


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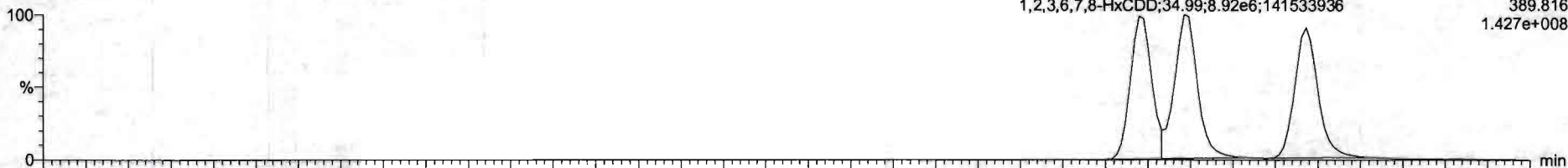
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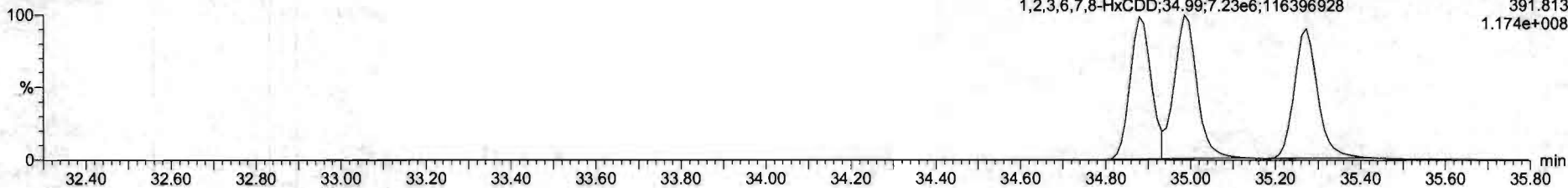
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1,2,3,4,7,8-HxCDD

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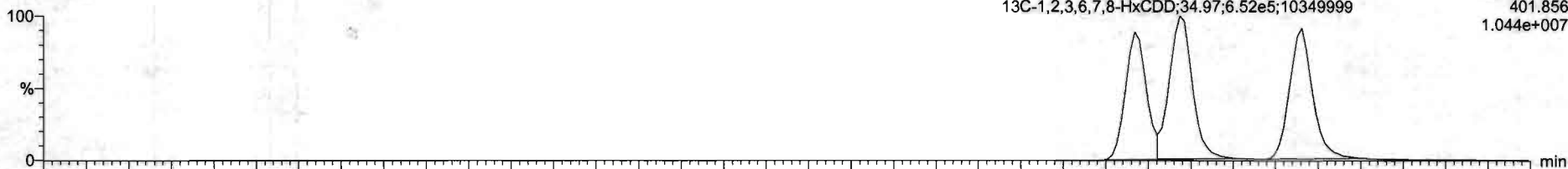


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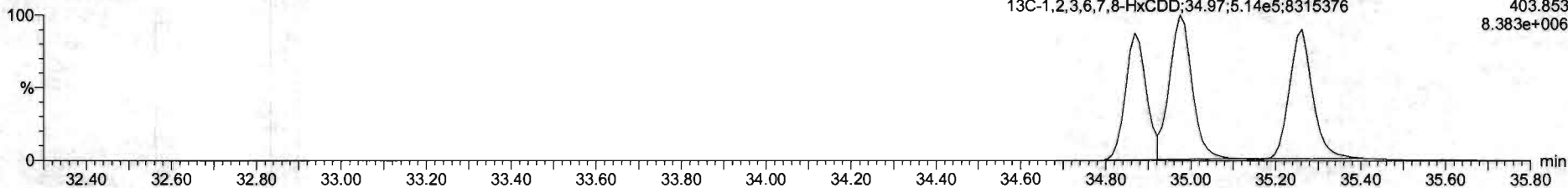


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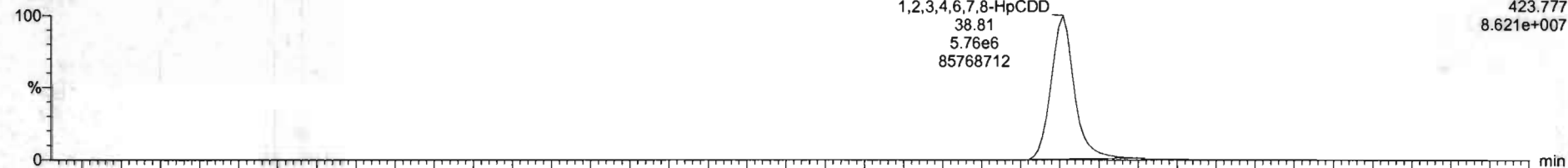
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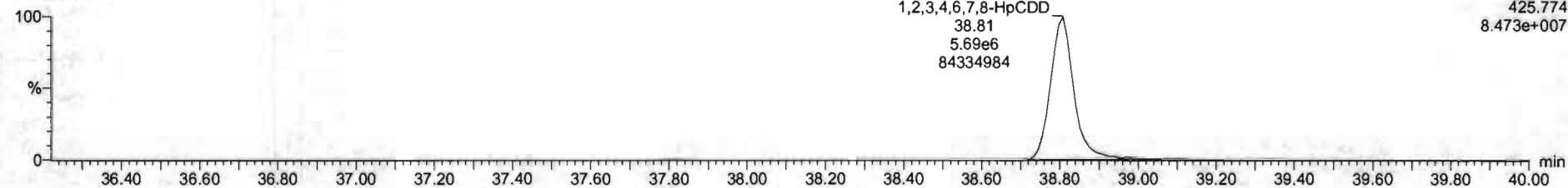
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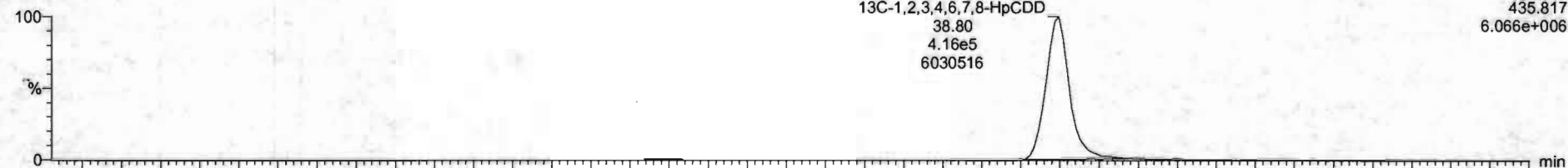


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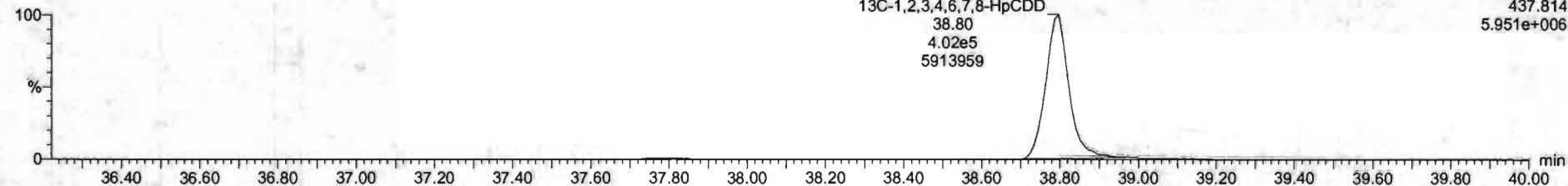


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200528R2_5



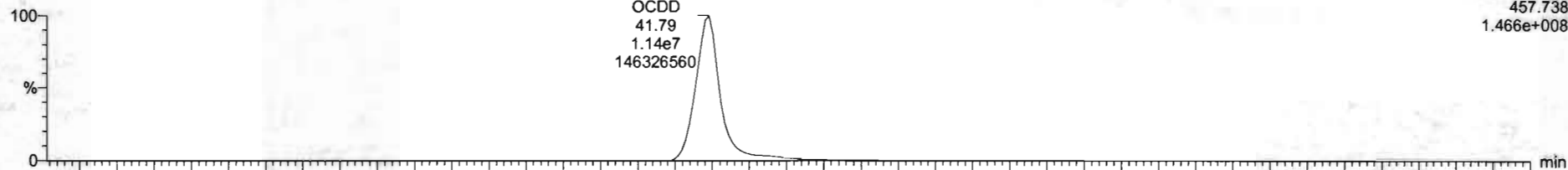
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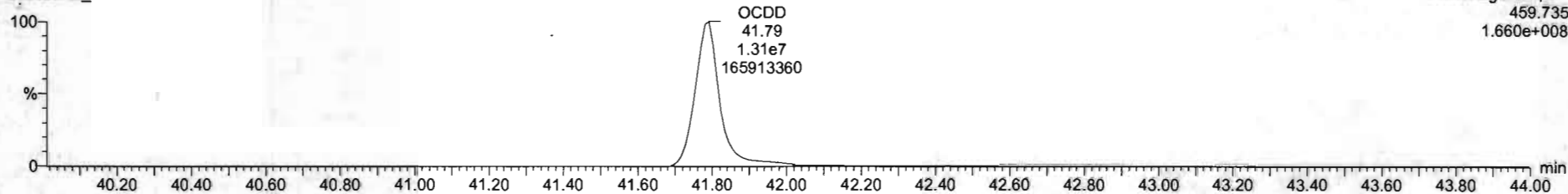
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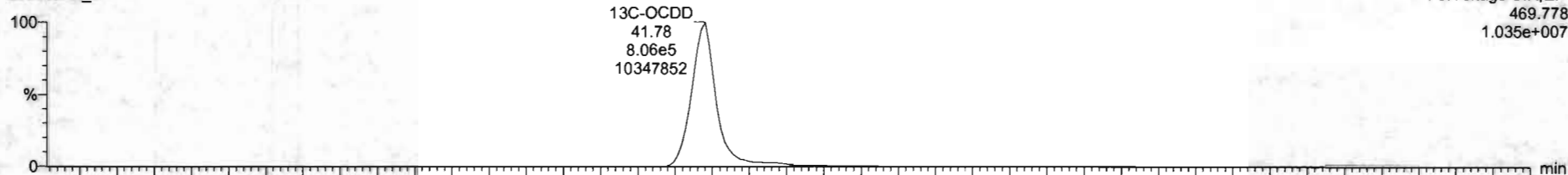
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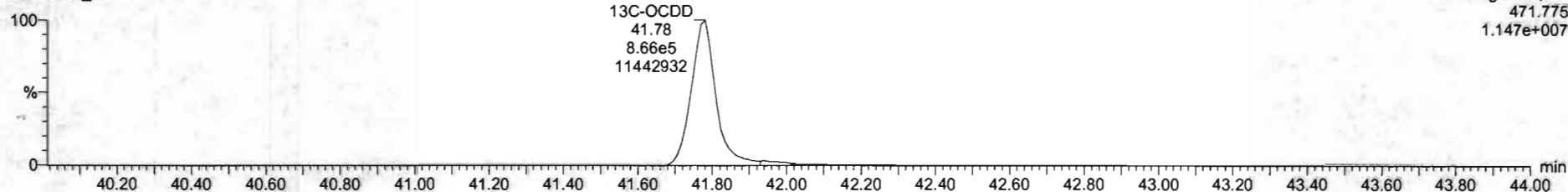
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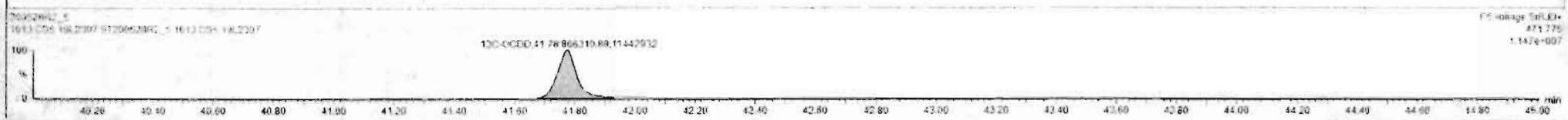
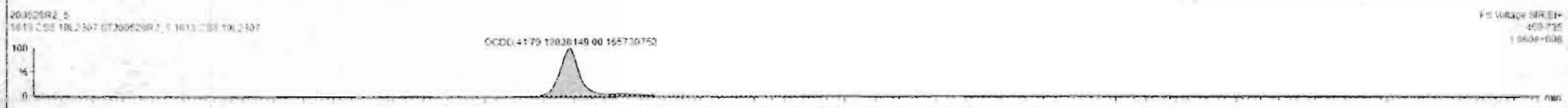
F5: Voltage SIR, EI+
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1.035e+007

200528R2_5



F5: Voltage SIR, EI+
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1.147e+007

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1	2.3.7.8-TCD0	4.52e7	0.76	NO	0.6883	1.000	26.95	1.001	321	107	0.0511	321
2	1.2.3.7.8-FluCD0	1.58e7	0.63	NO	0.9051	1.000	31.61	1.000	1550	103	0.124	1550
3	1.2.3.4.7.8-HvCD0	1.47e7	1.23	NO	1.0334	1.000	34.08	1.000	1520	101	0.130	1520
4	1.2.3.8.7.8-HvCD0	1.41e7	1.21	NO	0.9523	1.000	34.99	1.000	1550	103	0.142	1550
5	1.2.3.7.8.9-HvCD0	1.47e7	1.23	NO	0.9265	1.000	35.27	1.000	1570	104	0.107	1570
6	1.2.3.4.6.7.8-HvCD0	1.15e7	1.01	NO	0.8639	1.000	36.61	1.000	1620	105	0.161	1620
7	OCDD	2.37e7	6.84	NO	0.9138	1.000	41.79	1.000	3100	103	0.379	3100
8	2.3.7.6-TCD0	0.00e0	0.75	NO	0.7510	1.000	45.65	1.001	325	105	0.0600	325
9	1.2.3.7.8-FluCDF	2.38e7	1.54	NO	0.8925	1.000	40.23	1.000	1570	101	0.231	1570
10	2.3.4.7.8-FluCDF	0.40e7	1.53	NO	0.9348	1.000	41.21	1.000	1550	101	0.213	1550
11	1.2.3.4.7.8-HvCDF	1.61e7	1.19	NO	0.8644	1.000	34.01	1.000	1590	106	0.103	1590
12	1.2.3.6.7.8-HvCDF	1.06e7	1.19	NO	0.8092	1.000	34.72	1.000	1530	101	0.0927	1530
13	2.3.4.6.7.8-HvCDF	1.72e7	1.19	NO	0.9341	1.000	34.72	1.001	1560	104	0.152	1560
14	1.2.3.7.8.9-HvCDF	1.49e7	1.26	NO	0.6707	1.000	35.83	1.000	1560	106	0.145	1560
15	1.2.3.4.6.7.8-HvCDF	1.28e7	1.09	NO	0.8734	1.000	37.40	1.000	1560	104	0.303	1560
16	1.2.3.4.7.8.9-HvCDF	1.05e7	1.00	NO	1.0172	1.000	38.34	1.000	1620	103	0.215	1620
17	OCDF	2.35e7	6.05	NO	0.8085	1.000	41.95	1.000	3090	101	0.250	3090
18	13C-2.3.7.8-TCD0	1.52e6	0.76	NO	1.1583	1.000	26.96	1.026	106	106	0.0720	106
19	13C-1.2.3.7.8-FluCD0	1.21e6	0.64	NO	0.8499	1.000	31.58	1.215	114	114	0.130	114
20	13C-1.2.3.4.7.8-HvCD0	6.34e5	1.28	NO	0.7750	1.000	34.97	1.014	110	110	0.191	110
21	13C-1.2.3.6.7.8-HvCD0	1.17e6	1.27	NO	1.0167	1.000	34.97	1.017	113	113	0.146	113



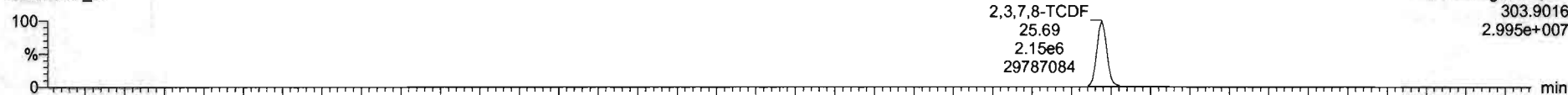
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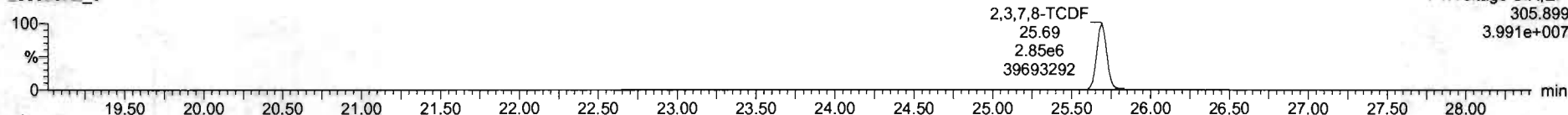
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2,3,7,8-TCDF

200528R2_5

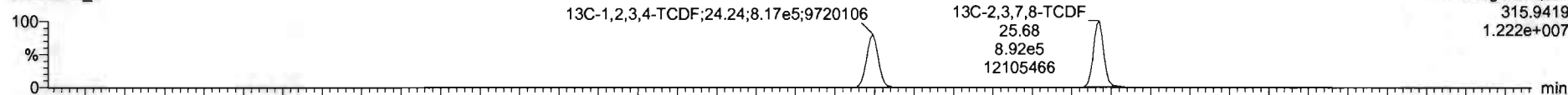


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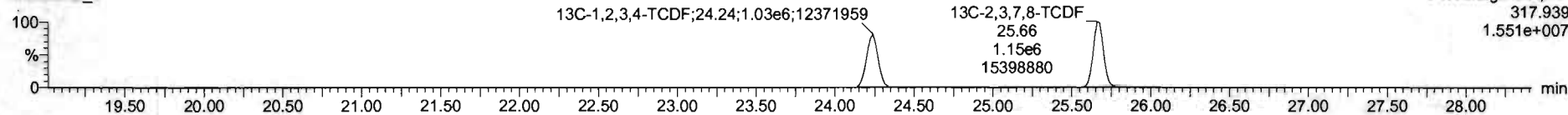


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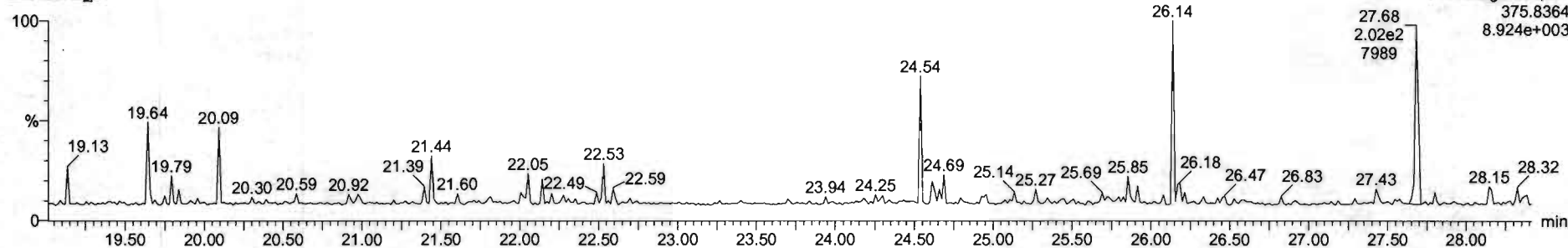


200528R2_5



DPE1

200528R2_5



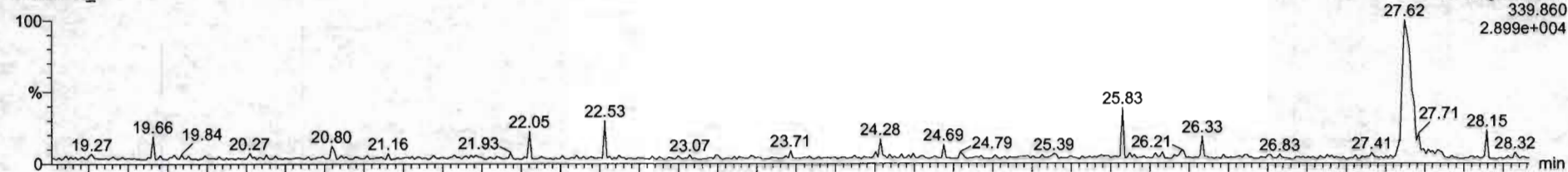
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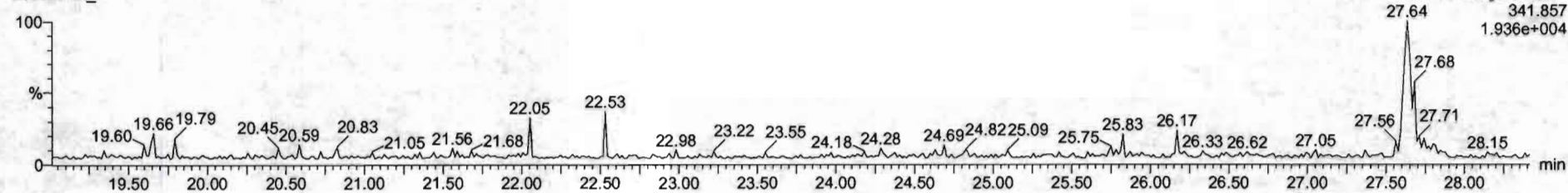
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1st Func. Penta-Furans

200528R2_5

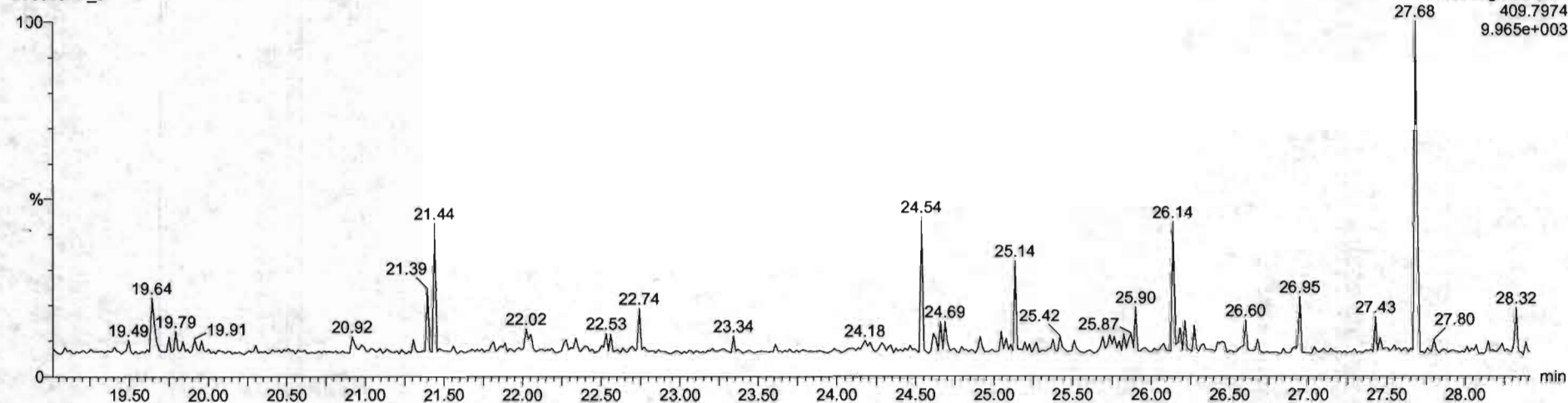


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DPE6

200528R2_5



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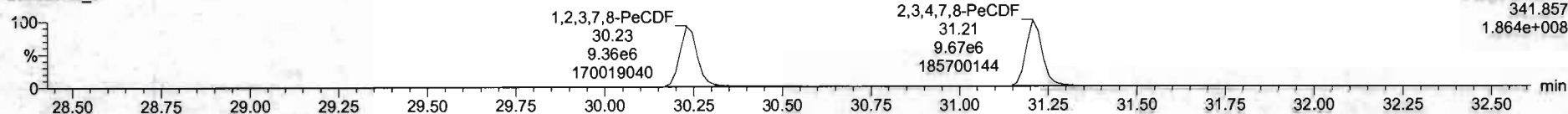
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1,2,3,7,8-PeCDF

200528R2_5



200528R2_5

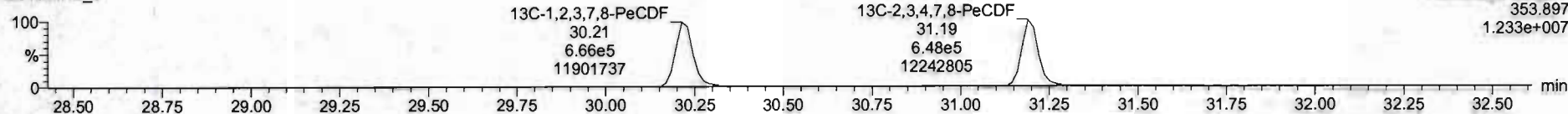


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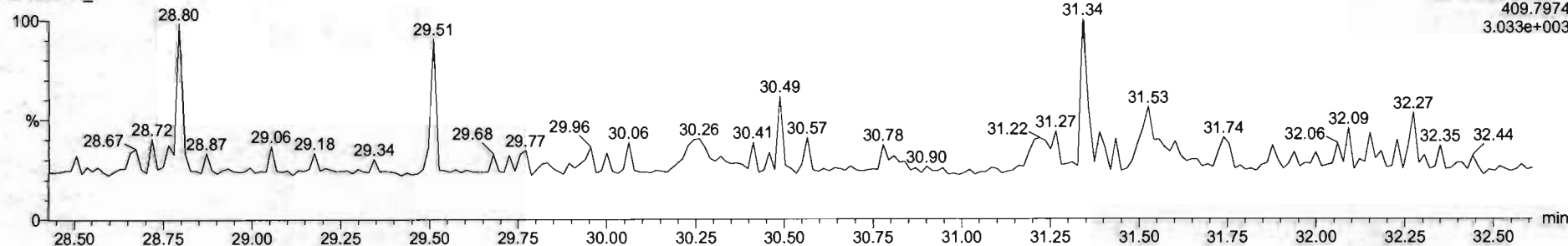


200528R2_5



DPE2

200528R2_5



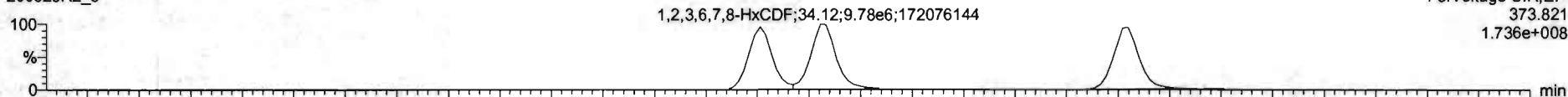
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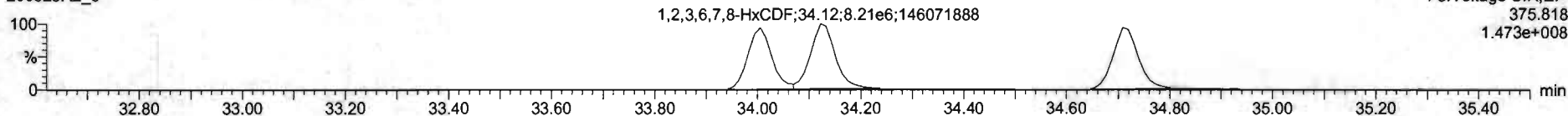
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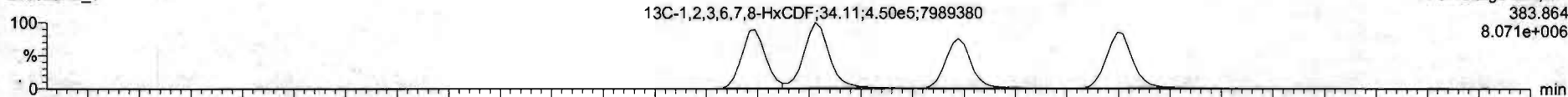


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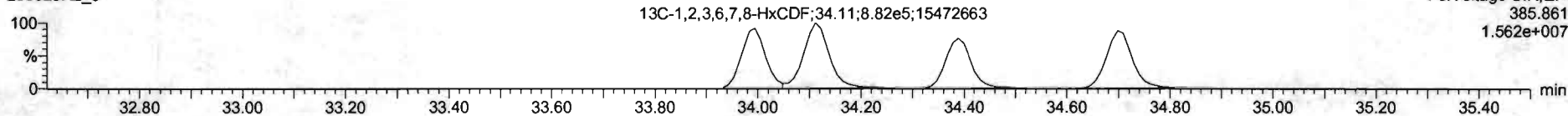


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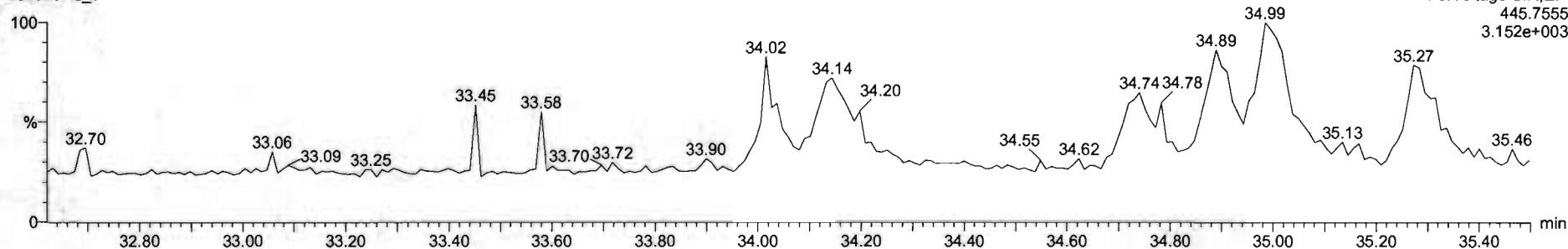


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DPE3

200528R2_5



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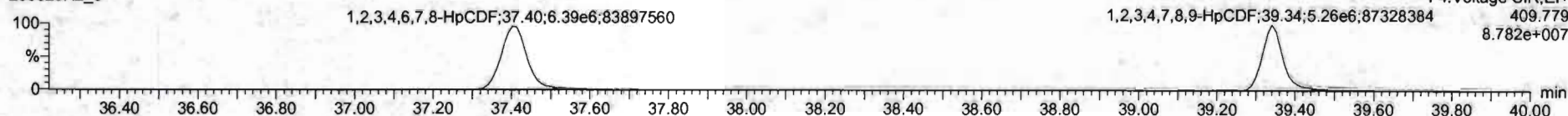
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1,2,3,4,6,7,8-HpCDF

200528R2_5

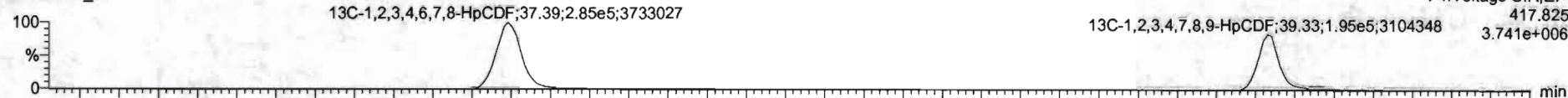


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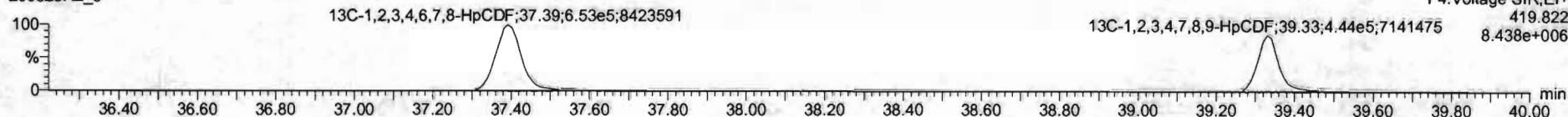


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200528R2_5

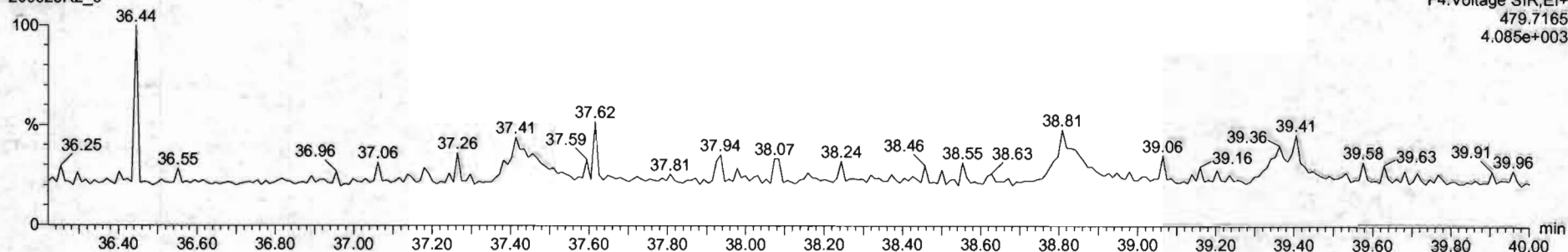


200528R2_5



DPE4

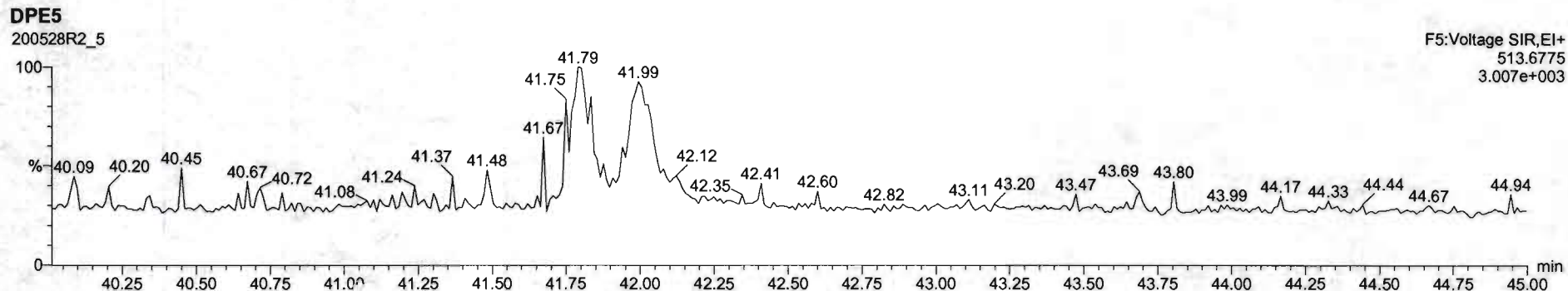
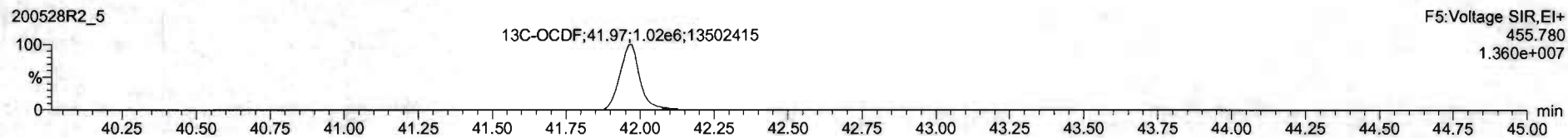
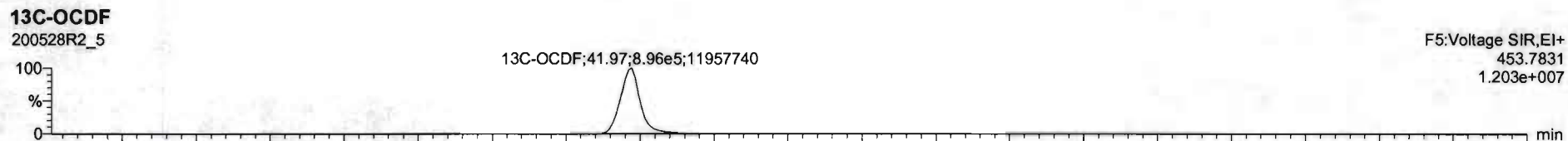
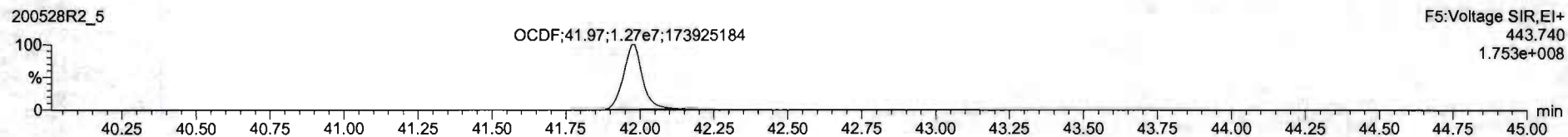
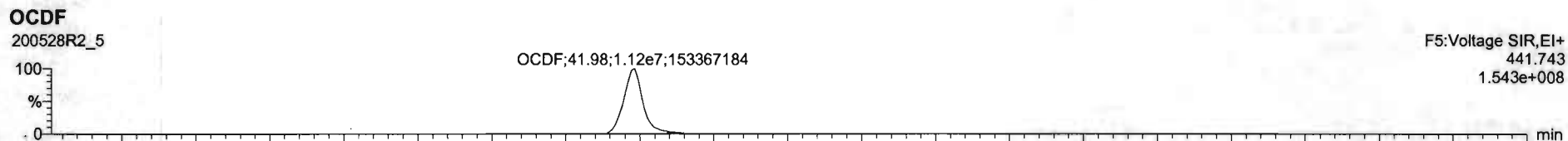
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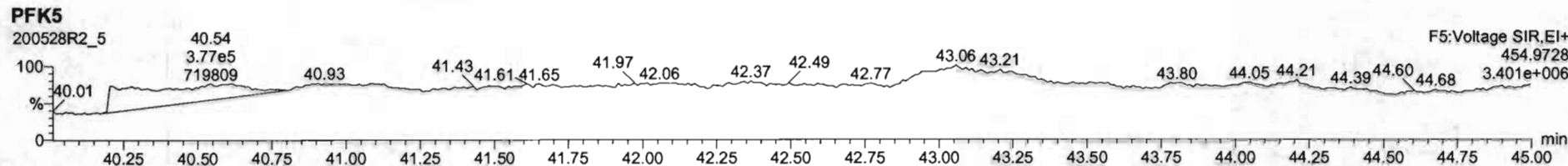
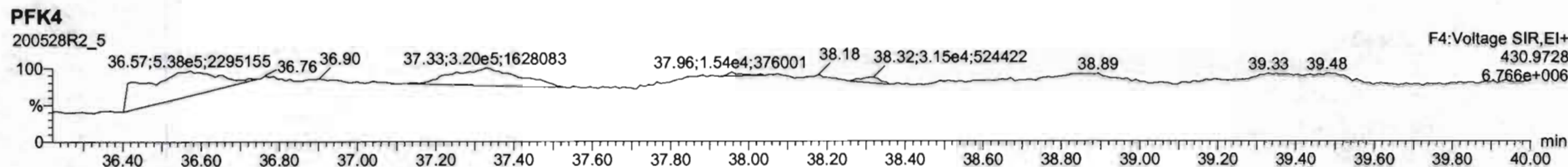
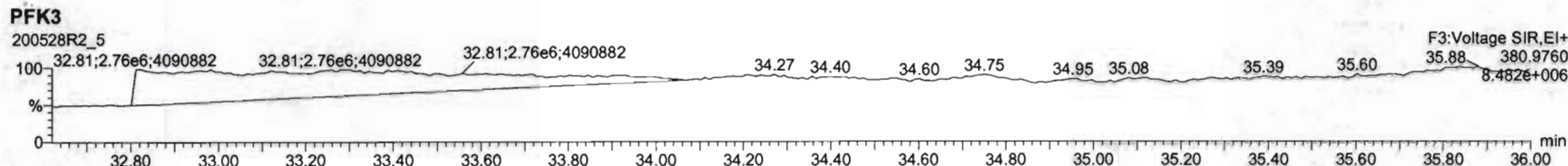
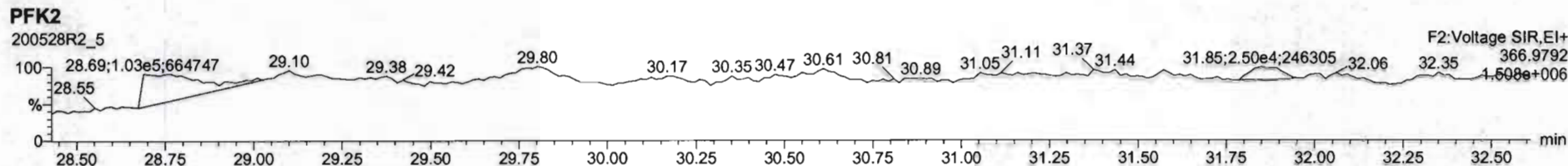
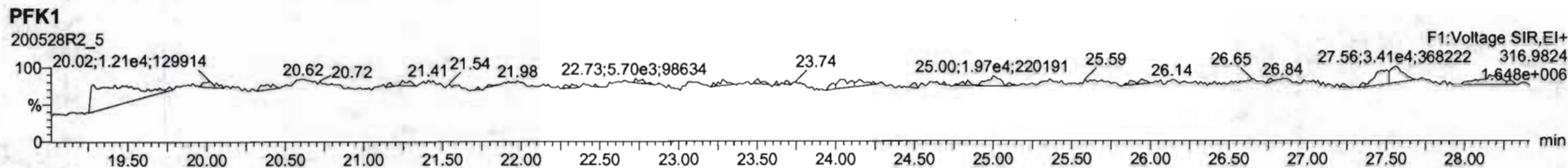
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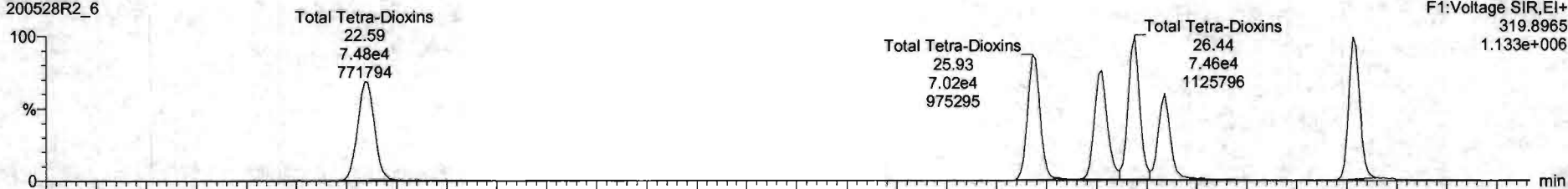
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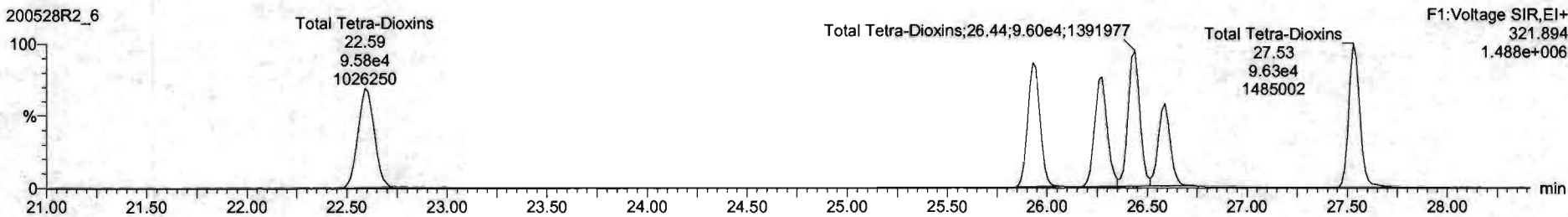
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2,3,7,8-TCDD

200528R2_6

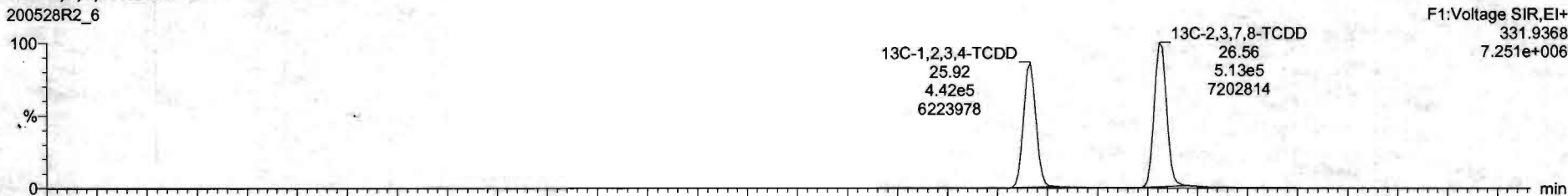


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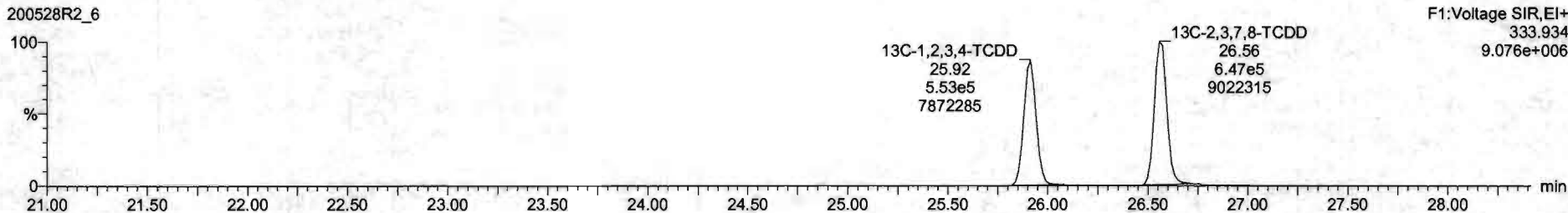


13C-2,3,7,8-TCDD

200528R2_6



200528R2_6



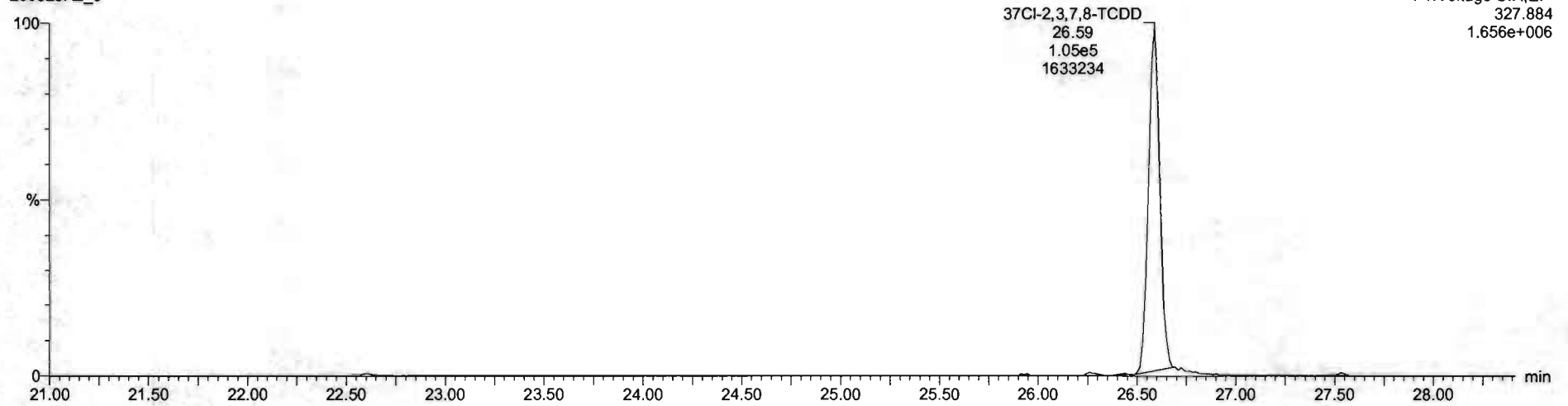
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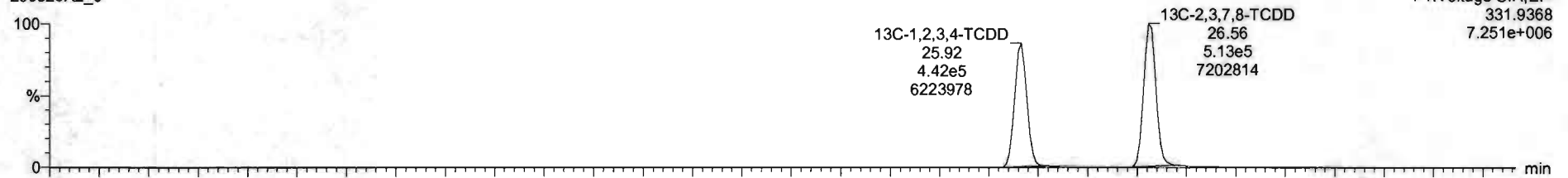
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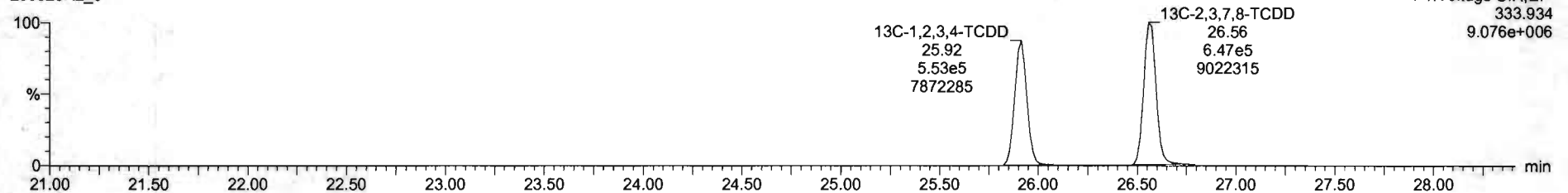


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200528R2_6



200528R2_6



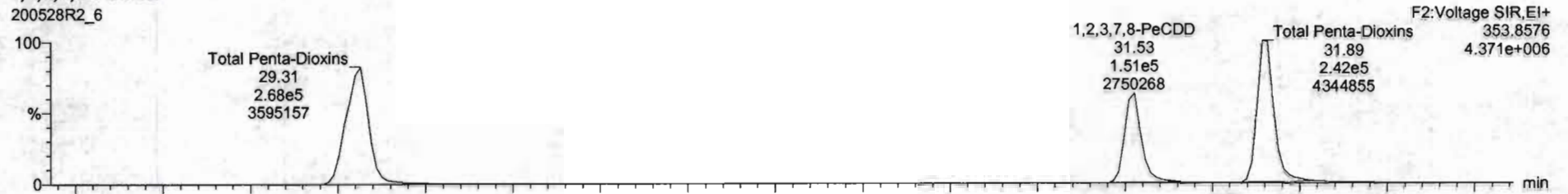
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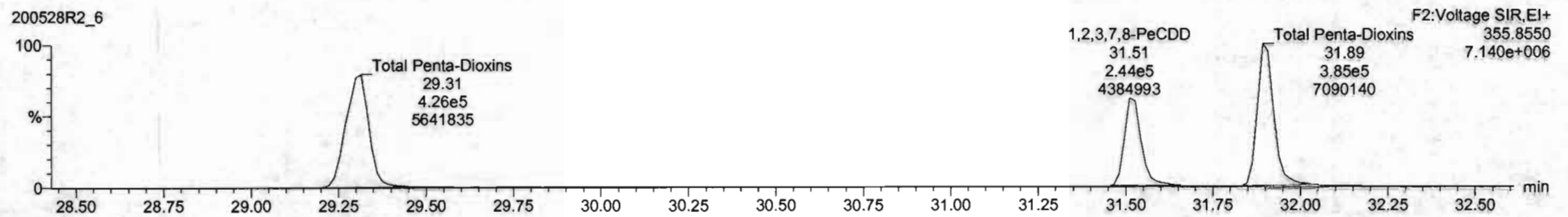
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1,2,3,7,8-PeCDD

200528R2_6

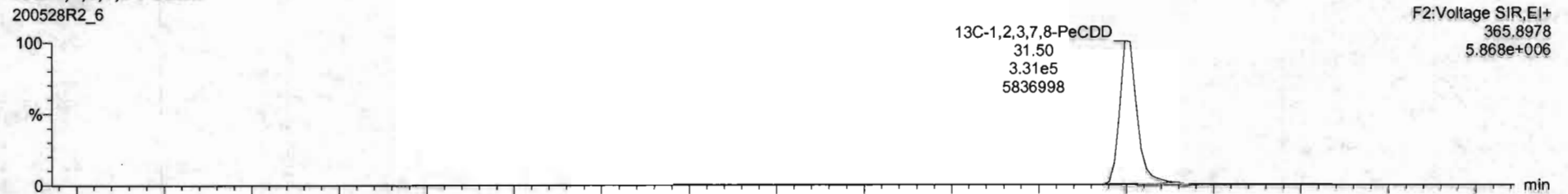


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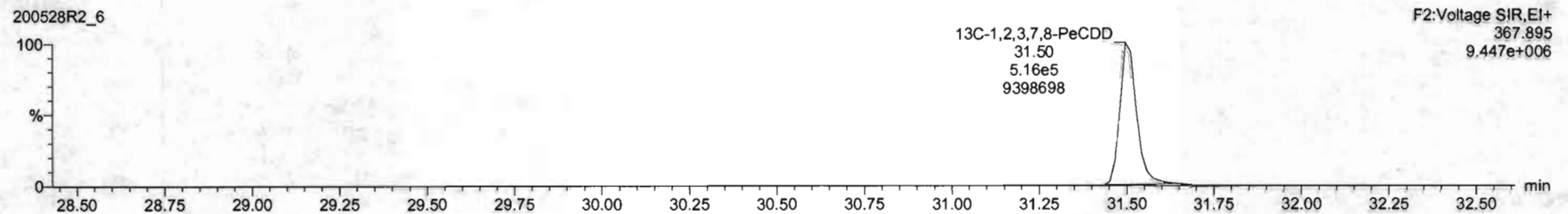


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200528R2_6



200528R2_6



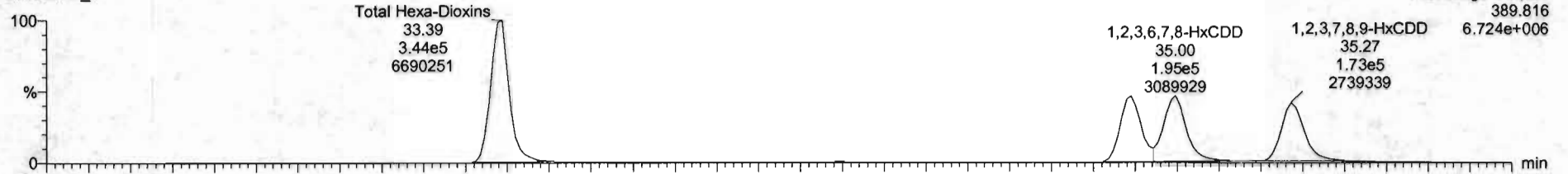
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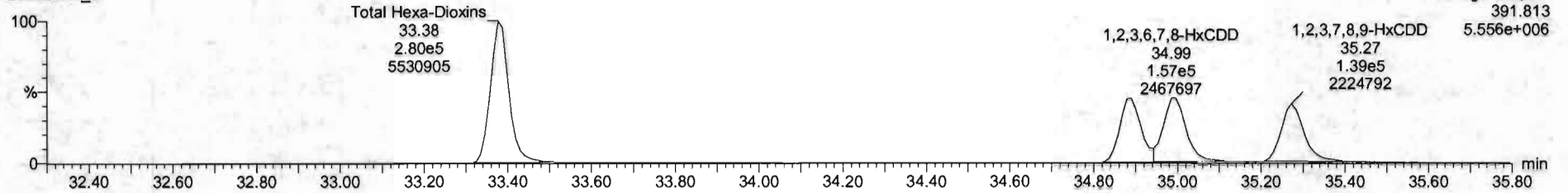
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1,2,3,4,7,8-HxCDD

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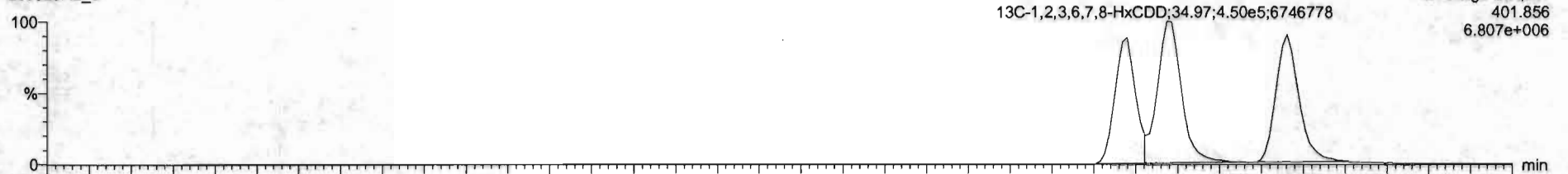


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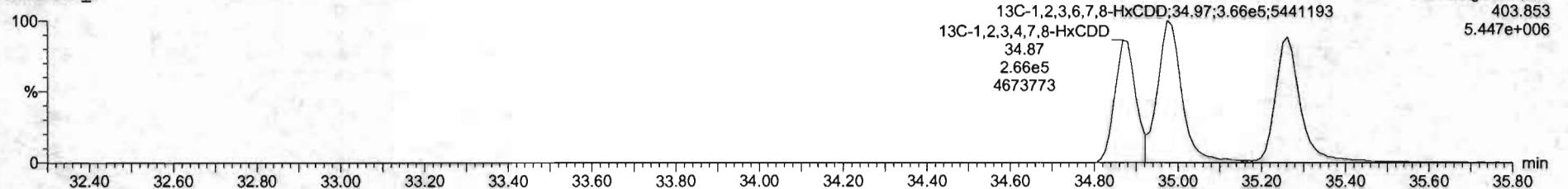


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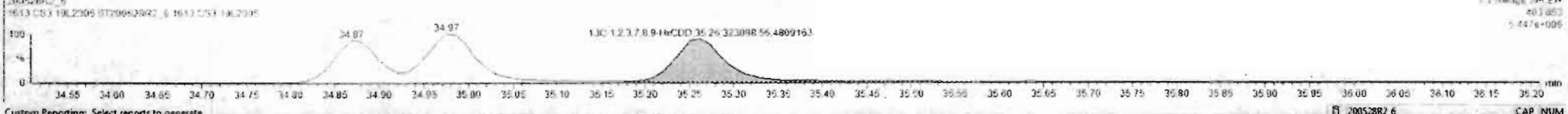
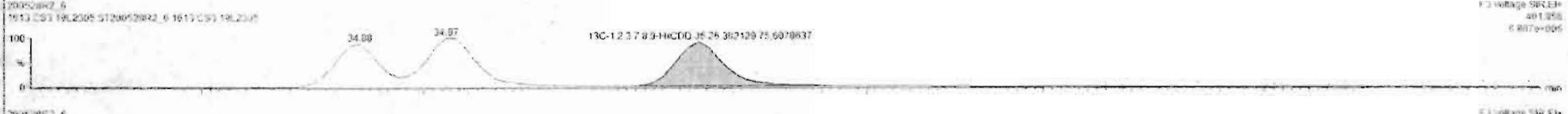
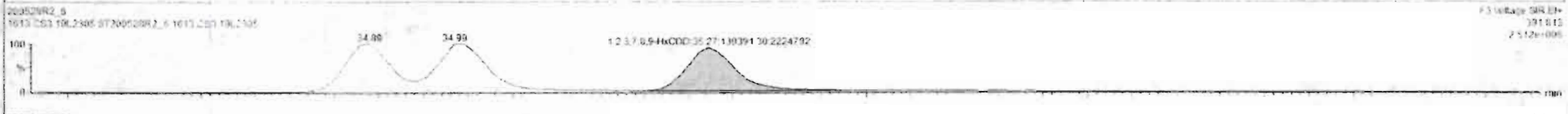
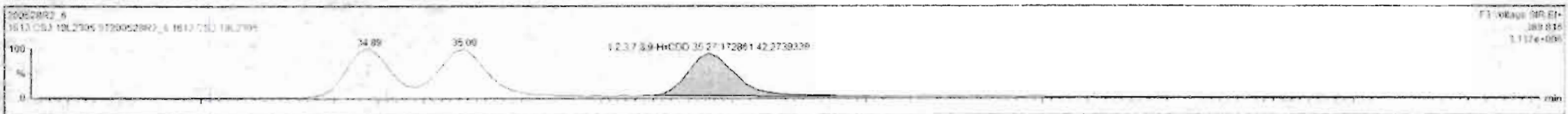
200528R2_6



200528R2_6



#	Name	Res#	RA	aly	RR	sdvol	RT	RRT	Conc.	%Rec	DL	LHPC
1	2,3,7,8-TCDD	1.06e5	0.91	NO	0.6203	1.000	26.59	1.001	10.2	102	0.0674	10.2
2	1,2,3,7,8-PeCDD	3.96e5	0.62	NO	0.9041	1.000	34.43	1.001	51.3	103	2.19e	51.3
3	1,2,3,4,7,8-HxCDD	7.25e5	1.22	NO	1.6334	1.000	34.89	1.000	52.1	104	0.220	52.1
4	1,2,3,6,7,8-HxCDD	3.51e5	1.24	NO	0.8921	1.000	34.20	1.001	48.3	96.8	0.211	48.3
5	1,2,3,7,8,9-HxCDD	3.12e5	1.24	NO	0.6669	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6	1,2,3,4,6,7,8-HpCDD	2.29e5	1.02	NO	0.9618	1.000	35.81	1.000	51.2	102	0.209	51.2
7	CDD	4.53e5	0.38	NO	0.9136	1.000	41.78	1.000	102	102	0.206	102
8	2,3,7,8-TCDF	1.19e5	0.74	NO	0.7510	1.000	25.68	1.001	9.90	99.8	0.0613	9.90
9	1,2,3,7,8-PeCDF	5.72e5	1.57	NO	0.8905	1.000	30.25	1.000	51.2	102	0.130	51.2
10	1,2,3,7,8,9-HpCDF	4.81e5	1.57	NO	0.9348	1.000	31.22	1.000	49.3	101	0.130	49.3
11	1,2,3,4,7,8-HxCDF	3.98e5	1.21	NO	0.8648	1.000	34.07	1.000	51.1	102	0.191	51.1
12	1,2,3,6,7,8-HxCDF	4.22e5	1.25	NO	0.8622	1.000	34.13	1.000	51.8	104	0.179	51.8
13	1,2,3,4,6,7,8-HpCDF	3.88e5	1.25	NO	0.9341	1.000	34.72	1.000	51.9	104	0.197	51.9
14	1,2,3,7,8,9-HpCDF	2.98e5	1.22	NO	0.8767	1.000	35.63	1.000	51.1	102	0.201	51.1
15	1,2,3,4,6,7,8,9-HxCDF	2.84e5	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.201	51.4
16	1,2,3,4,7,8,9-HpCDF	2.00e5	0.80	NO	1.0125	1.000	38.34	1.000	52.7	105	0.258	52.7
17	CDF	4.44e5	0.86	NO	0.8045	1.000	41.97	1.000	102	102	0.161	102
18	1,2,3,7,8,9-HxCDF	1.16e5	0.79	NO	1.1503	1.000	28.96	1.025	101	101	0.0990	101
19	1,2,3,4,6,7,8,9-HpCDD	8.48e5	0.84	NO	0.8450	1.000	31.60	1.215	100	100	0.225	100
20	1,2,3,4,7,8,9-HpCDD	8.04e5	1.27	NO	0.7790	1.000	34.88	1.014	98.9	98.9	0.188	98.9
21	1,2,3,6,7,8,9-HpCDD	8.19e5	1.23	NO	1.0187	1.000	34.97	1.017	102	102	0.144	102



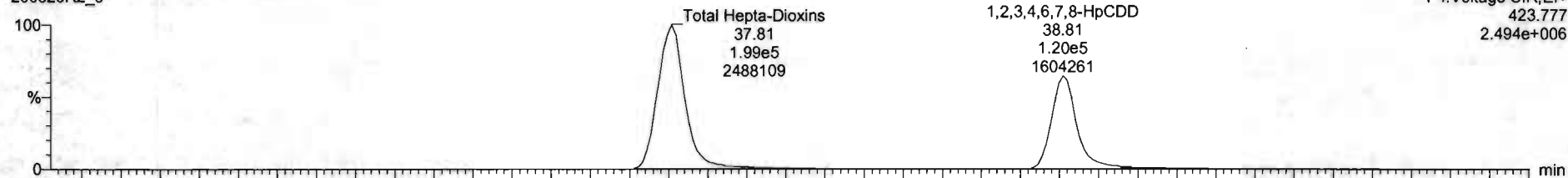
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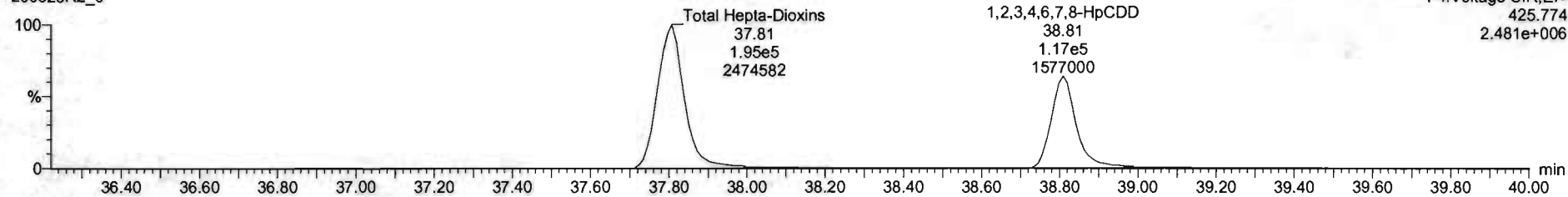
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1,2,3,4,6,7,8-HpCDD

200528R2_6

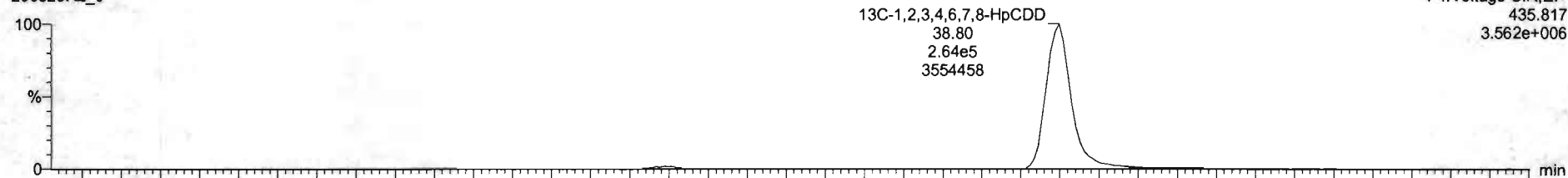


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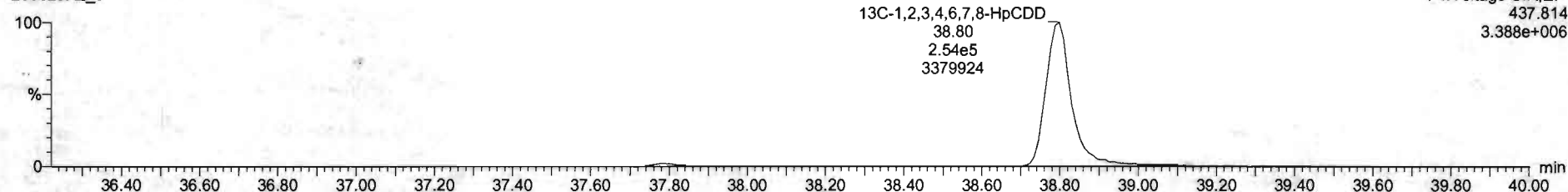


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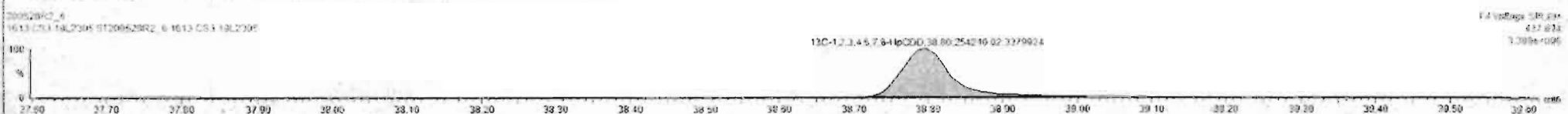
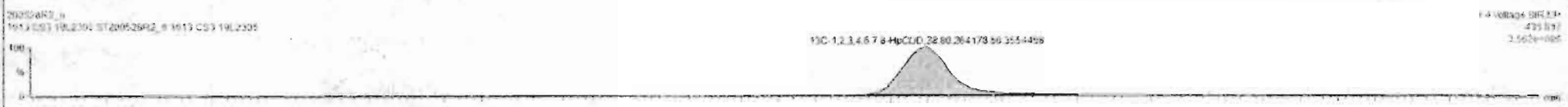
200528R2_6



200528R2_6



#	Name	Resp	RA	inj	RRF	wtvol	HT	RR1	Conc	%Rec	DL	EMPC
1	1,2,3,4,5-HpCDD	1.96e5	0.81	NO	0.880	1.000	26.19	1.001	10.2	102	0.0664	10.0
2	1,2,3,4,6,7,8-HpCDD	3.95e5	0.82	NO	0.901	1.000	31.53	1.001	51.3	102	0.195	51.3
3	1,2,3,4,7,8-HpCDD	3.25e5	1.23	NO	1.034	1.000	34.89	1.006	52.1	104	0.255	52.1
4	1,2,3,4,7,8-HxCDD	3.51e5	1.24	NO	0.897	1.000	35.35	1.001	48.2	96.4	0.251	48.2
5	1,2,3,4,7,8,9-HxCDD	3.12e5	1.24	NO	1.525	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6	1,2,3,4,6,7,8-HxCDD	3.95e5	1.03	NO	0.899	1.000	35.81	1.000	51.3	102	0.259	51.2
7	OCDF	4.53e5	0.98	NO	0.916	1.000	41.75	1.000	102	102	0.208	102
8	1,2,3,4,7,8-HxCDF	1.19e5	0.74	NO	0.710	1.000	25.69	1.001	9.90	99.8	0.0613	9.90
9	1,2,3,4,7,8-HpCDF	5.72e5	1.57	NO	0.895	1.000	30.25	1.000	51.0	102	0.150	51.0
10	1,2,3,4,7,8-HxCDF	5.81e5	1.57	NO	0.938	1.000	31.22	1.000	50.3	101	0.150	50.3
11	1,2,3,4,7,8,9-HxCDF	5.58e5	1.21	NO	0.854	1.000	34.31	1.000	51.1	102	0.151	51.1
12	1,2,3,6,7,8-HpCDF	4.22e5	1.25	NO	0.855	1.000	34.13	1.000	51.9	104	0.170	51.9
13	1,2,3,4,6,7,8-HxCDF	3.88e5	1.25	NO	0.904	1.000	34.72	1.000	51.9	104	0.157	51.9
14	1,2,3,7,8-HpCDF	3.98e5	1.22	NO	0.870	1.000	35.03	1.000	51.1	102	0.209	51.1
15	1,2,3,4,6,7,8-HpCDF	2.54e5	0.98	NO	0.873	1.000	37.41	1.001	51.4	103	0.201	51.4
16	1,2,3,4,7,8,9-HpCDF	2.30e5	0.98	NO	1.012	1.000	39.34	1.000	52.7	108	0.288	52.7
17	OCDF	4.44e5	0.85	NO	0.800	1.000	41.87	1.000	102	102	0.161	102
18	13C-1,2,3,4,7,8-HpCDD	1.16e5	0.79	NO	1.150	1.000	29.56	1.025	101	101	0.0980	
19	13C-1,2,3,4,7,8-HxCDD	3.45e5	0.84	NO	0.940	1.000	33.59	1.215	100	100	0.235	
20	13C-1,2,3,4,7,8-HpCDF	8.04e5	1.27	NO	0.7750	1.000	34.58	1.014	98.9	98.9	0.188	
21	13C-1,2,3,6,7,8-HxCDD	8.15e5	1.23	NO	1.0487	1.000	34.97	1.017	102	102	0.144	



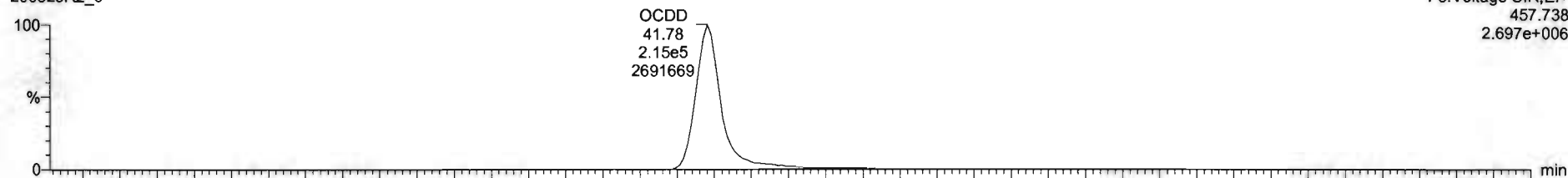
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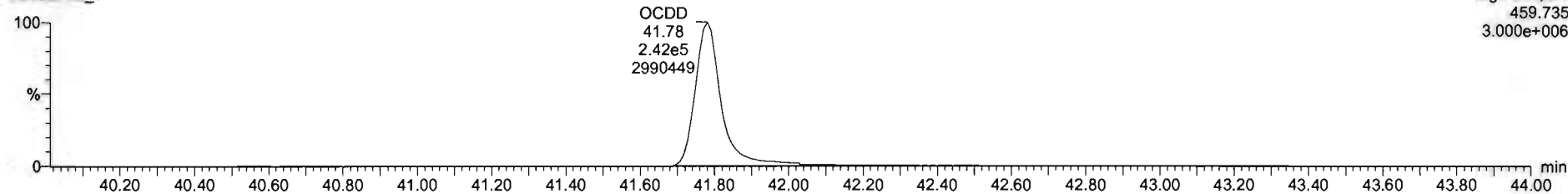
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OCDD

200528R2_6

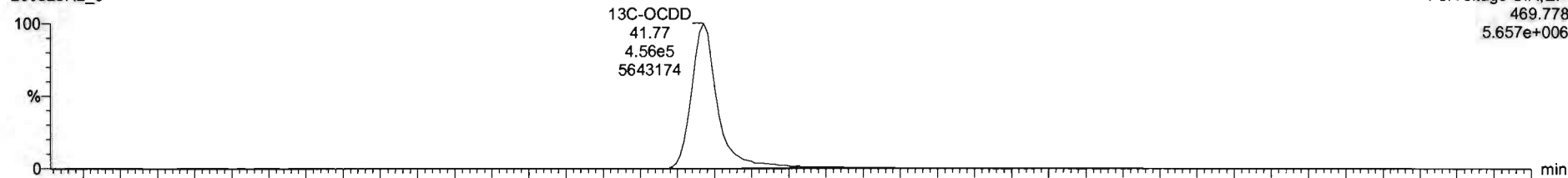


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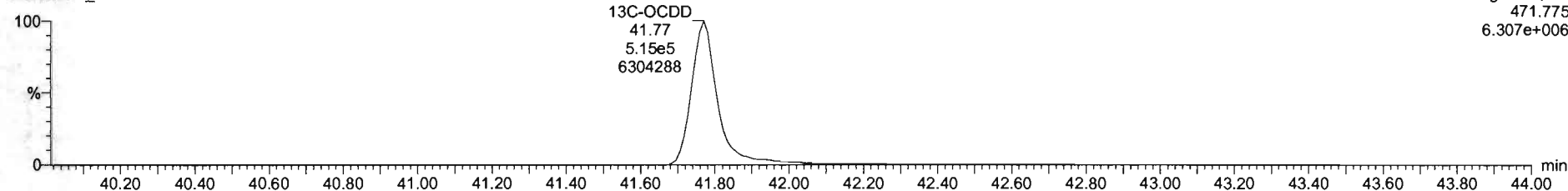


13C-OCDD

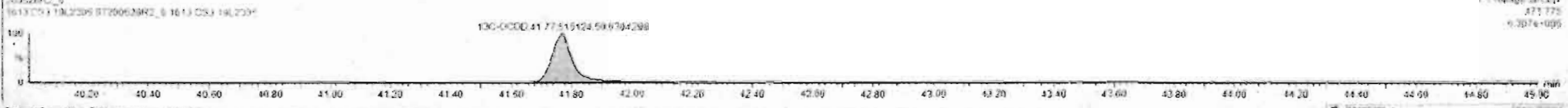
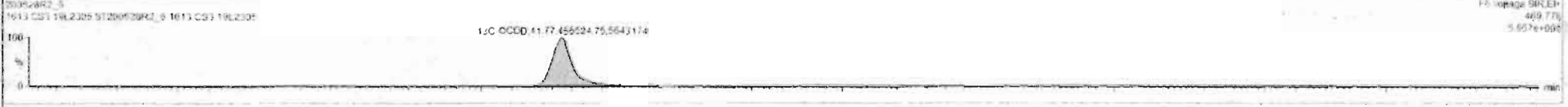
200528R2_6



200528R2_6



ID	Name	Resp	RA	Qty	RHF	Wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.96e6	0.21	NO	0.8843	1.000	26.19	1.001	10.2	102	0.0664	10.2
2	1,2,3,7,8-PeCDD	3.96e6	0.22	NO	0.9091	1.000	31.92	1.001	51.3	103	0.195	51.3
3	1,2,3,4,7,8-HxCDD	3.25e6	1.25	NO	1.0334	1.000	34.89	1.000	52.1	104	0.228	52.1
4	1,2,3,6,7,8-HxCDD	3.51e6	1.24	NO	0.8027	1.000	35.30	1.001	46.3	96.6	0.223	46.3
5	1,2,3,7,8,9-HxCDD	3.12e6	1.24	NO	0.9063	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6	1,2,3,4,6,7,8-HpCDD	7.26e6	1.52	NO	1.0881	1.000	35.81	1.000	71.1	100	0.216	71.1
7	OCDD	4.53e5	0.28	NO	0.9138	1.000	41.76	1.000	102	102	0.208	102
8	2,3,7,8-TCDF	1.19e6	0.24	NO	0.7510	1.000	25.89	1.001	3.96	99.6	0.0613	9.96
9	1,2,3,7,8-PeCDF	5.72e6	1.57	NO	0.8925	1.000	30.25	1.000	51.2	102	0.129	51.2
10	2,3,4,7,8-PeCDF	8.81e6	1.57	NO	0.9346	1.000	31.22	1.000	50.3	101	0.130	50.3
11	1,2,3,4,7,8-HxCDF	3.56e6	1.21	NO	0.8544	1.000	34.91	1.000	51.1	102	0.191	51.1
12	1,2,3,6,7,8-HxCDF	4.22e6	1.25	NO	0.8062	1.000	34.12	1.000	51.9	104	0.176	51.9
13	2,3,4,6,7,8-HxCDF	3.88e6	1.25	NO	0.9341	1.000	34.22	1.000	51.9	104	0.197	51.9
14	1,2,3,7,8,9-HxCDF	2.98e6	1.22	NO	0.8707	1.000	35.43	1.000	51.1	102	0.201	51.1
15	1,2,3,4,6,7,8-HpCDF	2.64e6	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.221	51.4
16	1,2,3,4,7,8,9-HpCDF	2.06e6	0.98	NO	1.0128	1.000	39.34	1.000	52.7	105	0.253	52.7
17	OCDF	4.44e6	0.80	NO	0.8045	1.000	41.87	1.000	102	102	0.161	102
18	13C-2,3,7,8-TCDD	1.16e6	0.79	NO	1.1563	1.000	26.96	1.025	101	101	0.0900	
19	13C-1,2,3,7,8-PeCDD	8.46e6	0.84	NO	0.8490	1.000	31.98	1.215	100	100	0.225	
20	13C-1,2,3,4,7,8-HxCDD	6.04e6	1.27	NO	0.7750	1.000	34.88	1.014	96.9	96.9	0.198	
21	13C-1,2,3,6,7,8-HxCDD	6.15e6	1.23	NO	1.0167	1.000	34.97	1.017	102	102	0.144	



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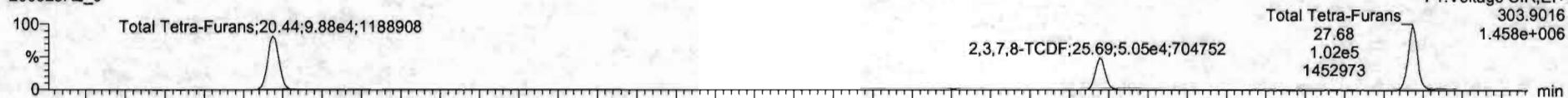
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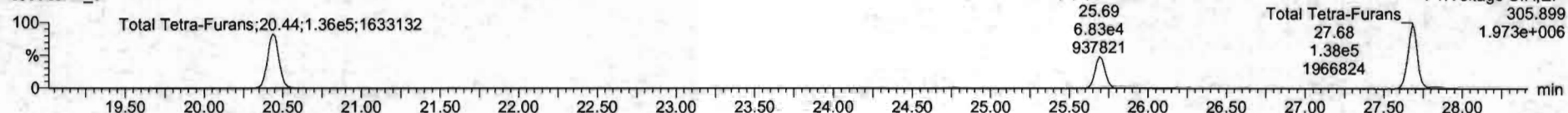
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2,3,7,8-TCDF

200528R2_6

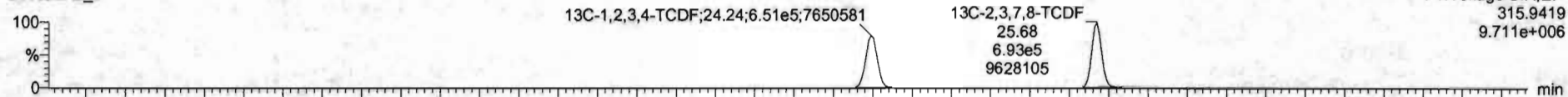


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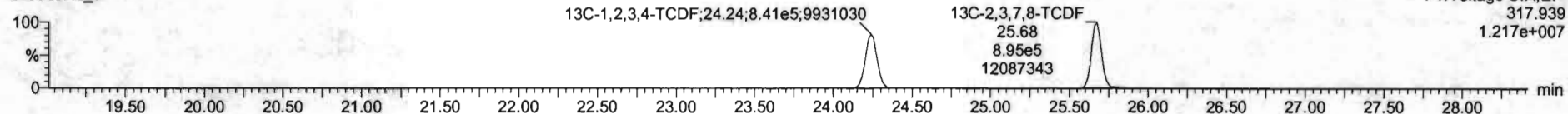


13C-2,3,7,8-TCDF

200528R2_6

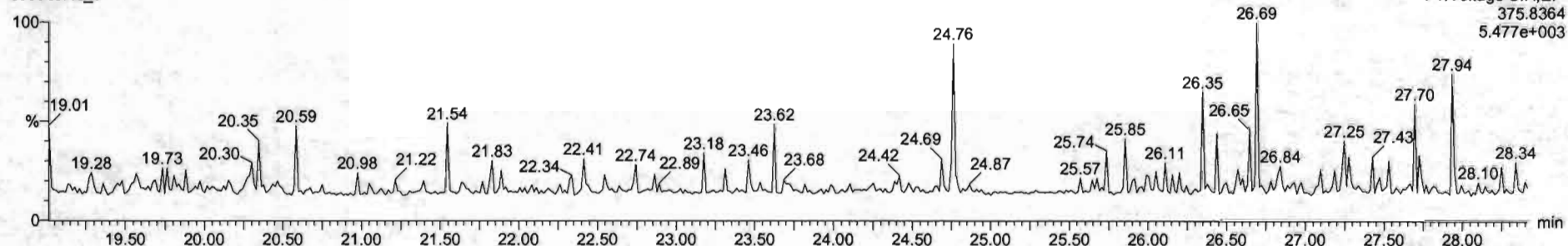


200528R2_6



DPE1

200528R2_6



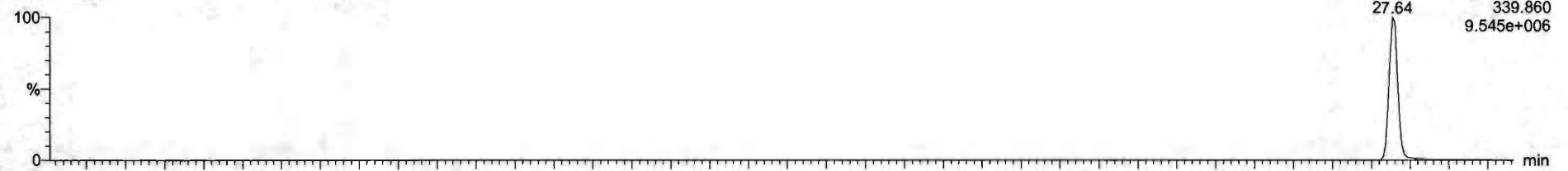
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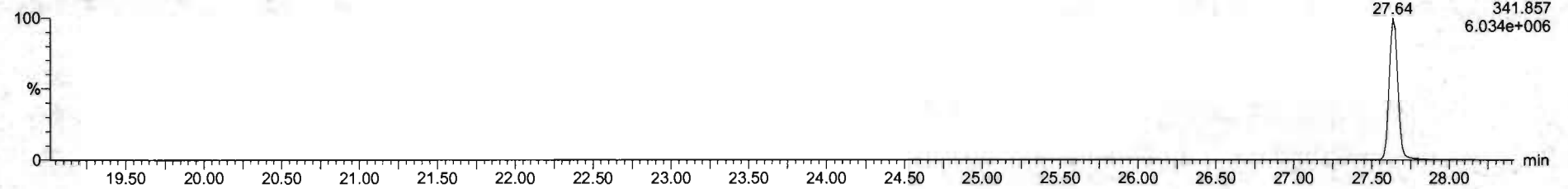
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200528R2_6

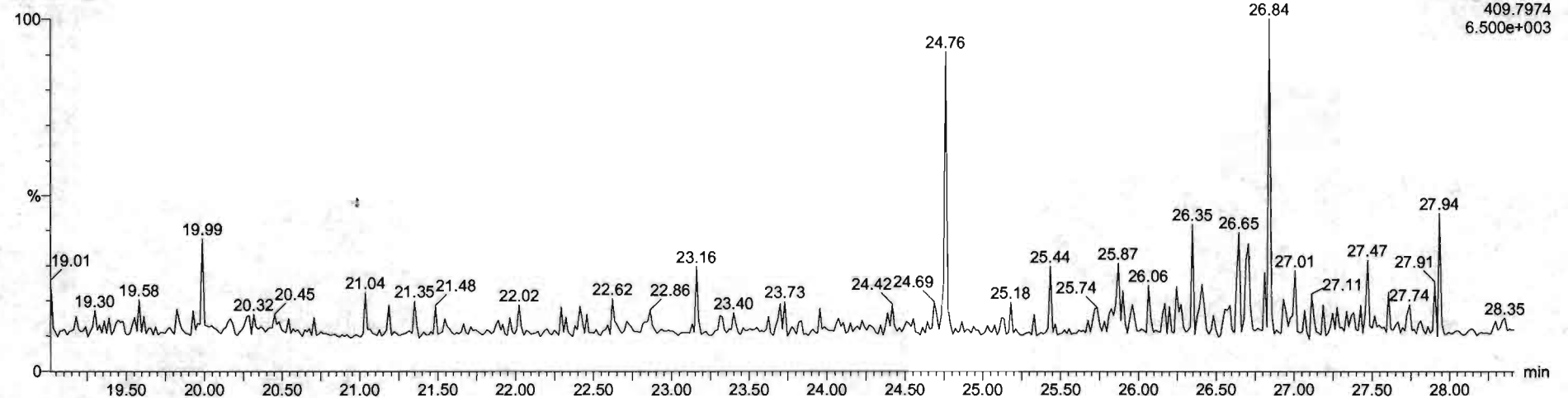


200528R2_6



DPE6

200528R2_6



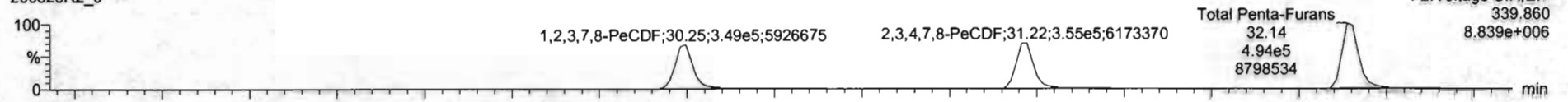
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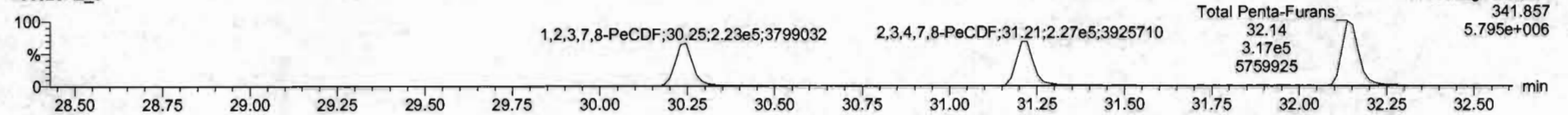
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1,2,3,7,8-PeCDF

200528R2_6

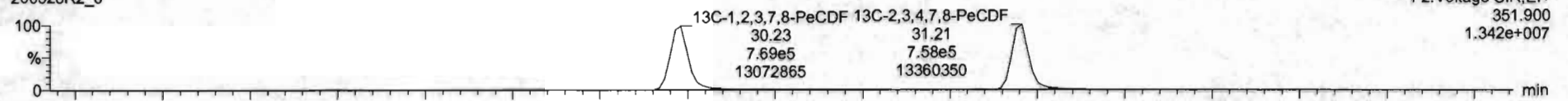


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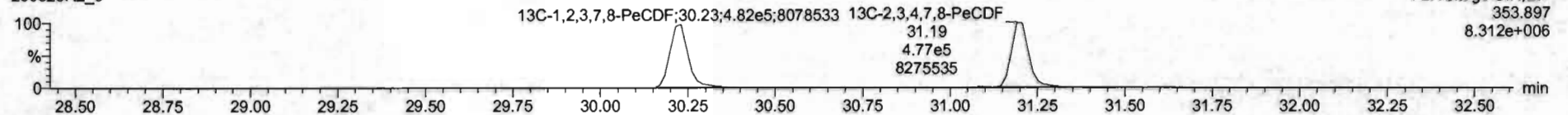


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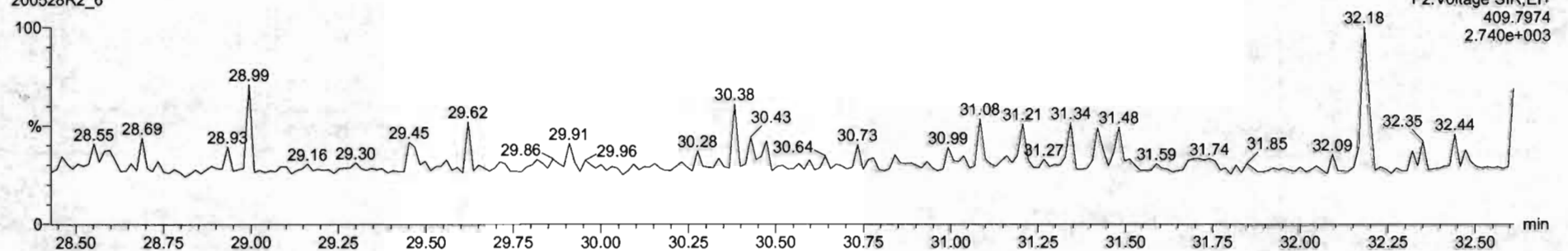


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DPE2

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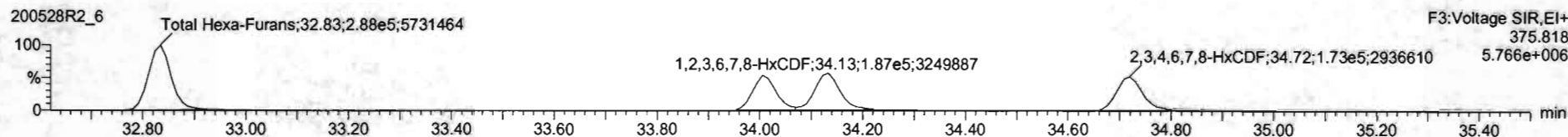
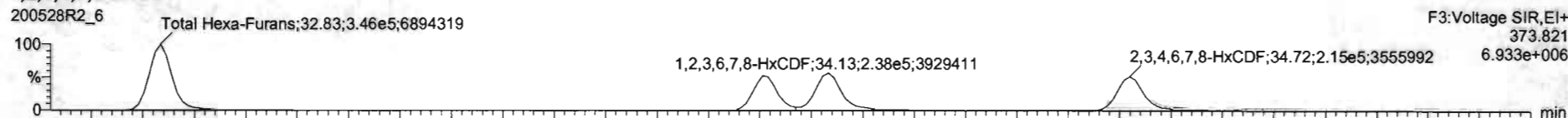


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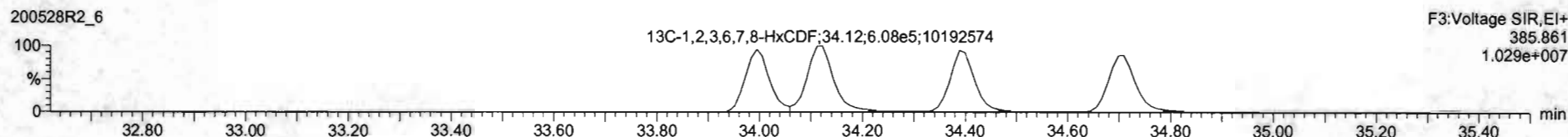
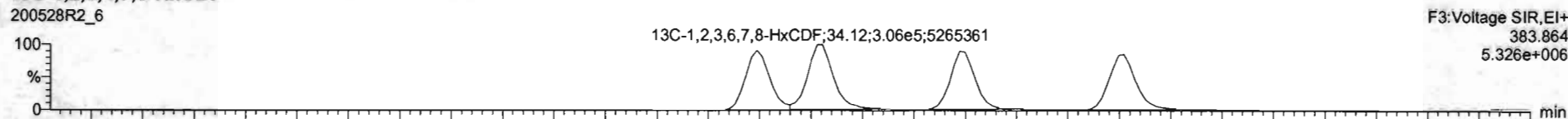
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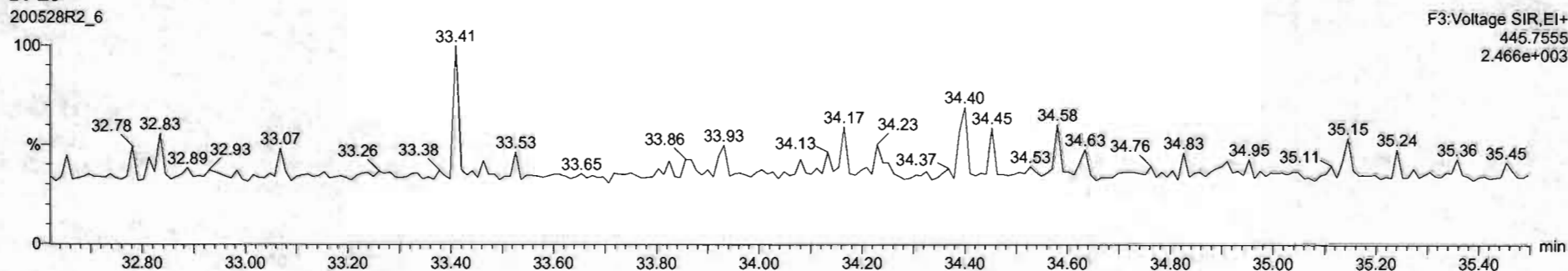
1,2,3,4,7,8-HxCDF



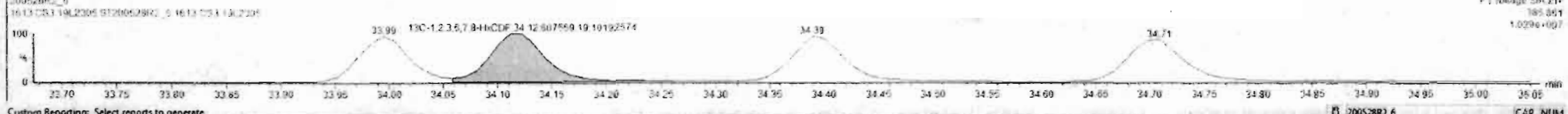
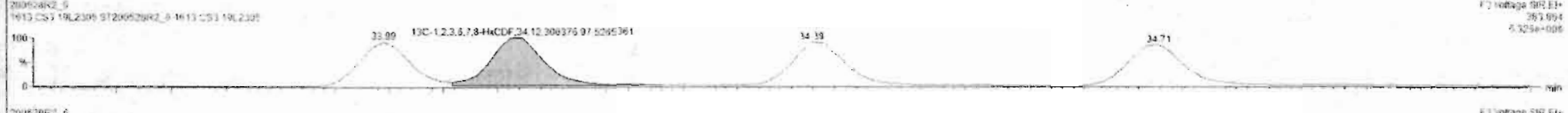
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DPE3



Name	Resp	RA	WV	RRF	WtVal	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.06e5	0.81	NO	0.6082	1.000	26.55	1.001	102	102	0.0664	10.2
2 1,2,3,7,8-PeCDD	1.56e5	0.82	NO	0.6081	1.000	31.53	1.001	51.3	103	0.194	51.3
3 1,2,3,4,7,8-HxCDD	0.25e5	1.23	NO	1.0334	1.000	34.89	1.000	52.1	104	0.220	52.1
4 1,2,3,6,7,8-HxCDD	0.31e5	1.24	NO	0.8923	1.000	25.00	1.001	48.3	96.6	0.231	48.3
5 1,2,3,7,8,9-HxCDD	0.12e5	1.24	NO	0.9269	1.000	35.27	1.000	49.9	99.8	0.264	49.9
6 1,2,3,4,6,7,8-HpCDD	0.26e5	1.01	NO	0.8838	1.000	26.61	1.000	51.2	102	0.209	51.2
7 OCDD	1.53e5	0.86	NO	0.5136	1.000	41.78	1.000	102	102	0.290	102
8 2,3,7,8-TCDF	1.19e5	0.74	NO	0.7510	1.000	25.69	1.001	9.90	99.8	0.0613	9.90
9 1,2,3,7,8-PeCDF	0.72e5	1.57	NO	0.8925	1.000	30.25	1.000	51.2	102	0.139	51.2
10 2,3,4,7,8-PeCDF	0.91e5	1.57	NO	0.9248	1.000	31.22	1.000	50.3	101	0.130	50.3
11 1,2,3,4,7,8-HxCDF	0.56e5	1.21	NO	0.8845	1.000	34.01	1.000	51.1	102	0.191	51.1
12 1,2,3,6,7,8-HxCDF	0.42e5	1.25	NO	0.8092	1.000	34.13	1.000	51.9	104	0.178	51.9
13 2,3,4,6,7,8-HxCDF	1.58e5	1.25	NO	0.9241	1.000	34.72	1.000	51.9	104	0.197	51.9
14 1,2,3,7,8,9-HxCDF	2.98e5	1.22	NO	0.8707	1.000	35.83	1.000	51.1	102	0.291	51.1
15 1,2,3,4,6,7,8-HpCDF	2.64e5	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.271	51.4
18 1,2,3,4,7,8,9-HpCDF	0.20e5	0.86	NO	1.0108	1.000	39.34	1.000	52.7	105	0.268	52.7
17 OCDF	1.44e5	0.86	NO	0.8085	1.000	41.97	1.000	102	102	0.141	102
19 1,2,3,7,8-TCDF	1.16e5	0.79	NO	1.1583	1.000	26.56	1.026	101	101	0.0890	
13C 1,2,3,7,8-PeCDD	0.48e5	0.64	NO	0.8490	1.000	31.50	1.215	100	100	0.235	
20 13C-1,2,3,7,8-HxCDD	0.04e5	1.27	NO	0.7790	1.000	34.88	1.014	98.9	98.9	0.188	
21 13C-1,2,3,7,8-HxCDD	0.15e5	1.23	NO	1.0187	1.000	34.97	1.017	102	102	0.144	



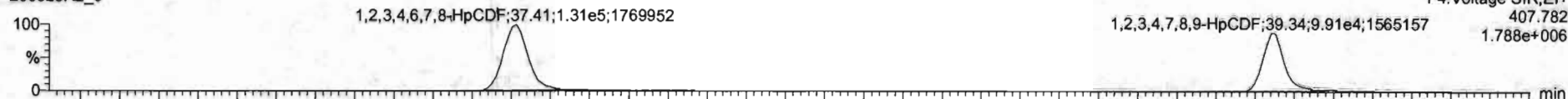
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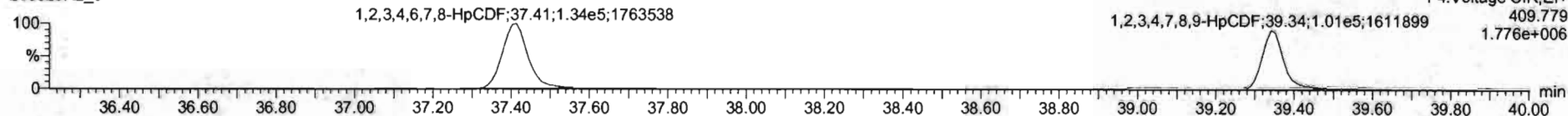
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1,2,3,4,6,7,8-HpCDF

200528R2_6

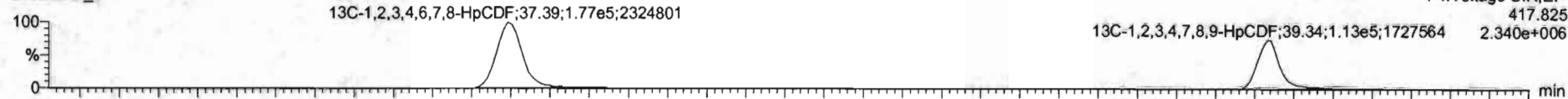


200528R2_6

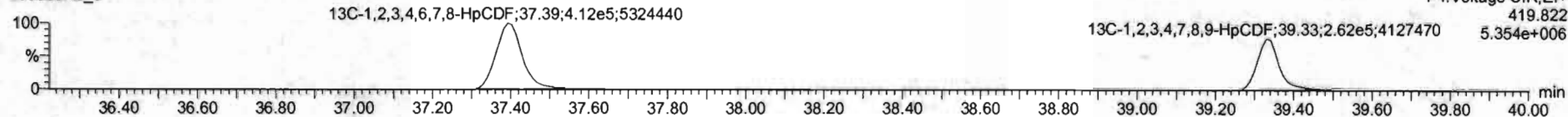


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200528R2_6

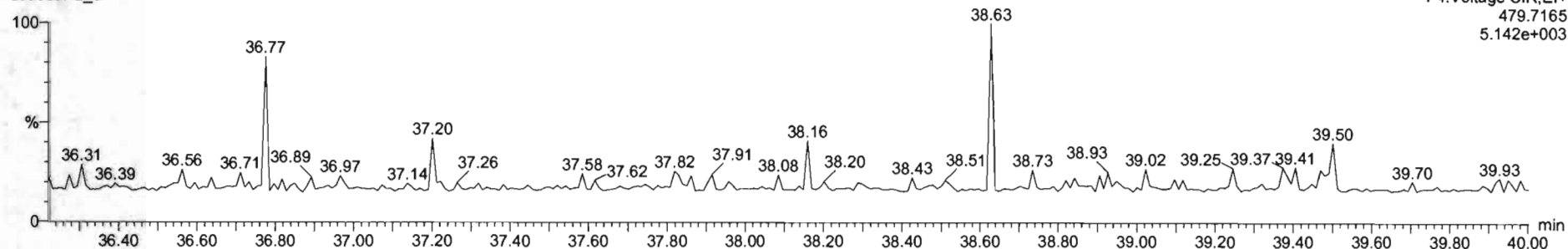


200528R2_6



DPE4

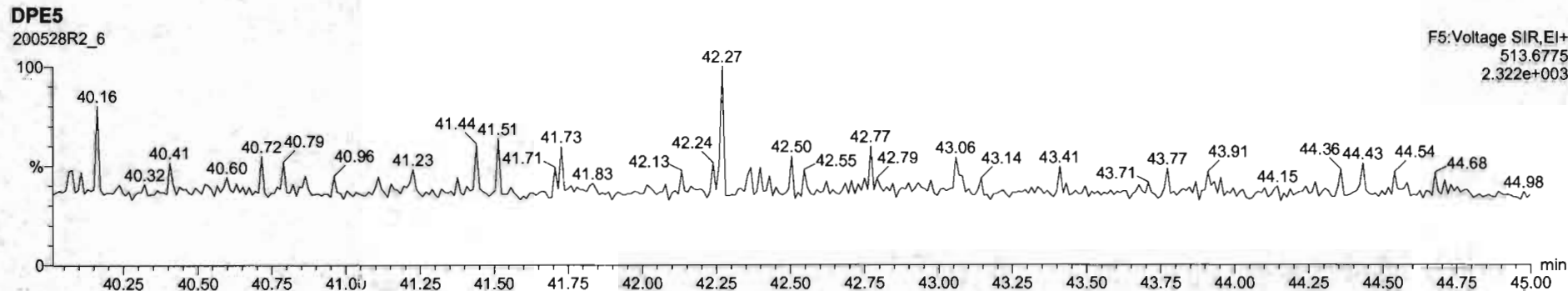
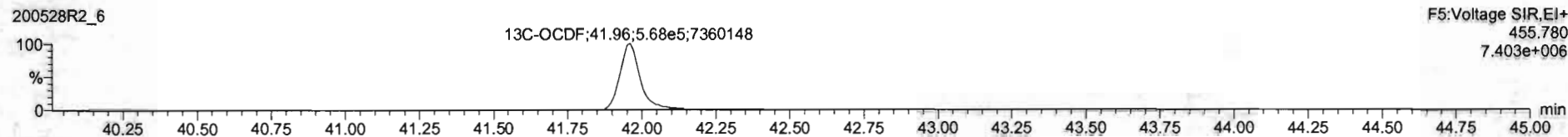
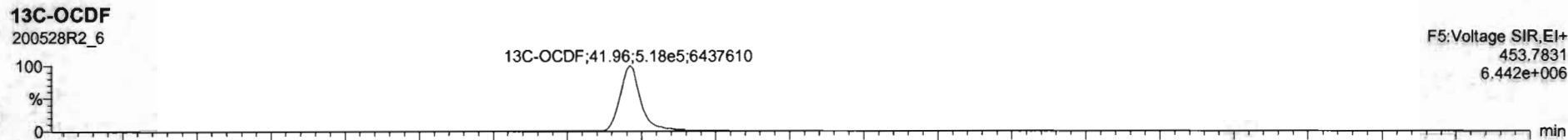
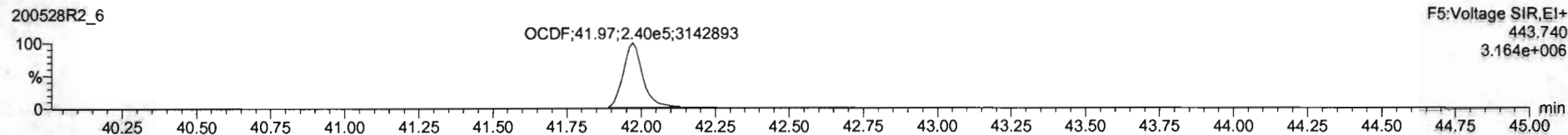
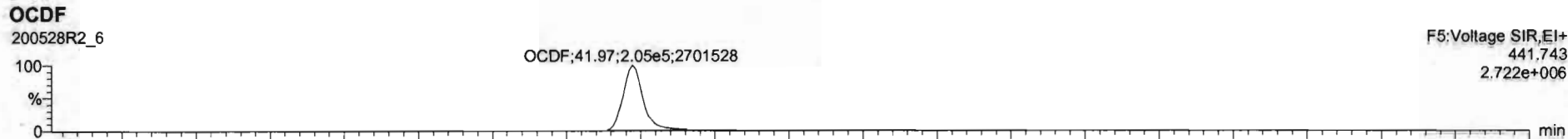
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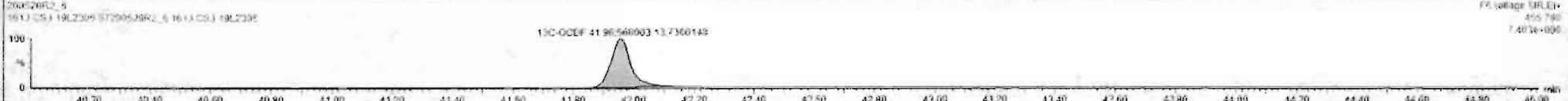
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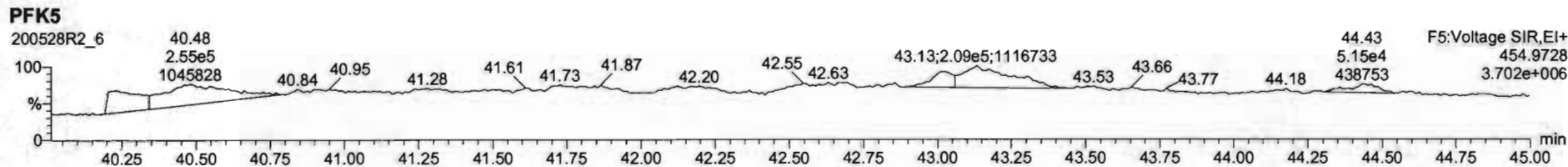
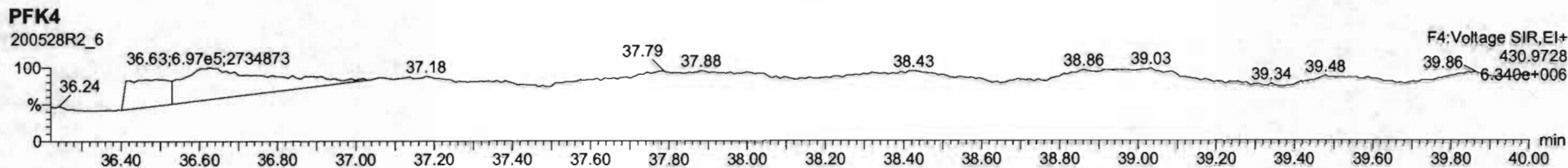
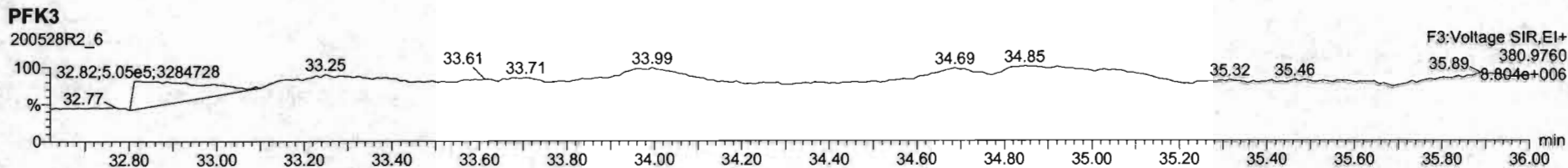
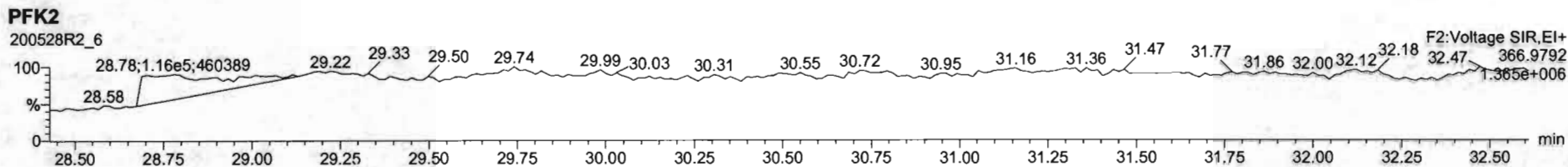
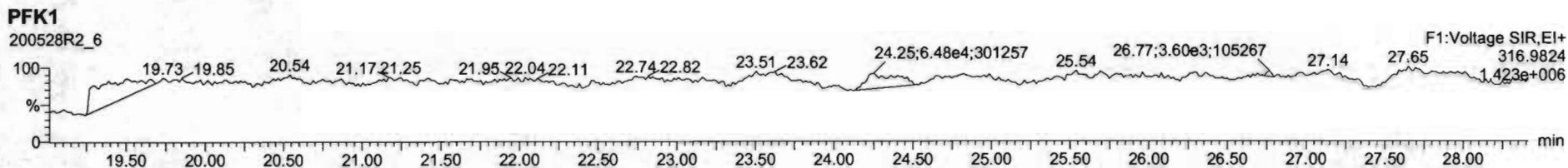
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2	1,2,3,7,8-PeCDF	3.56e5	0.62	NO	0.8091	1.000	31.53	1.001	51.3	103	0.195	51.3
3	1,2,3,4,7,8-HxCDF	0.25e5	1.23	NO	1.0334	1.000	34.99	1.000	52.1	104	0.228	52.1
4	1,2,3,6,7,8-HxCDF	0.51e5	1.34	NO	0.8921	1.000	35.00	1.001	48.3	96.6	0.231	48.3
5	1,2,3,7,8-HxCDF	0.12e5	1.24	NO	0.8265	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6	1,2,3,4,6,7,8-HxCDD	1.06e5	1.01	NO	1.9839	1.000	36.91	1.000	73.2	102	0.109	73.2
7	OCDF	4.53e5	0.68	NO	0.9136	1.000	41.78	1.000	102	102	0.206	102
8	2,3,7,8-TCDF	1.19e5	0.74	NO	0.7510	1.000	25.69	1.001	9.98	99.8	0.0613	9.96
9	1,2,3,7,8-PeCDF	1.70e5	1.57	NO	0.8925	1.000	30.24	1.000	51.2	102	0.139	51.2
10	1,2,3,7,8-HxCDF	0.61e5	1.57	NO	0.9349	1.000	31.02	1.000	40.3	101	0.150	40.3
11	1,2,3,4,7,8-HxCDF	3.56e5	1.31	NO	0.8545	1.000	34.81	1.000	61.1	103	0.191	61.1
12	1,2,3,6,7,8-HxCDF	4.22e5	1.25	NO	0.8282	1.000	34.13	1.000	51.9	104	0.176	51.9
13	2,3,4,6,7,8-HxCDF	3.08e5	1.25	NO	0.9341	1.000	34.72	1.000	51.9	104	0.187	51.9
14	1,2,3,7,8,9-HxCDF	2.98e5	1.22	NO	0.8787	1.000	34.63	1.000	61.1	102	0.291	61.1
15	1,2,3,4,6,7,8-HxCDF	2.64e5	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.221	51.4
16	1,2,3,4,7,8,9-HxCDF	2.00e5	0.98	NO	1.0128	1.000	39.14	1.000	52.7	102	0.258	52.7
17	OCDF	4.44e5	0.85	NO	0.6085	1.000	41.97	1.000	102	102	0.191	102
18	13C-2,3,7,8-TCDF	1.16e6	0.79	NO	1.1523	1.000	26.19	1.024	101	101	0.0680	
19	13C-1,2,3,7,8-PeCDF	0.48e5	0.64	NO	0.8450	1.000	31.50	1.215	100	100	0.235	
20	13C-1,2,3,4,7,8-HxCDD	0.04e5	1.27	NO	0.7790	1.000	34.88	1.014	98.9	98.9	0.168	
21	13C-1,2,3,6,7,8-HxCDD	0.15e5	1.23	NO	1.0187	1.000	34.97	1.017	102	102	0.144	



Dataset: Untitled

Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305



Dataset: U:\VG12.PRO\Results\200528R2\200528R2-8.qld

Last Altered: Friday, May 29, 2020 7:44:05 AM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:44:35 AM Pacific Daylight Time

GRB 05/29/2020

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_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	1.24e5	0.78	NO	0.888	1.000	26.575	26.57	1.001	1.001	11.080	111	0.0262	11.1
2	2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.908	1.000	31.518	31.51	1.001	1.000	56.429	113	0.0622	56.4
3	3 1,2,3,4,7,8-HxCDD	3.86e5	1.22	NO	1.03	1.000	34.879	34.88	1.000	1.000	58.033	116	0.101	58.0
4	4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.892	1.000	34.975	34.99	1.000	1.000	57.963	116	0.105	58.0
5	5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.887	1.000	35.262	35.26	1.000	1.000	57.107	114	0.119	57.1
6	6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.864	1.000	38.799	38.80	1.000	1.000	55.832	112	0.168	55.8
7	7 OCDD	5.15e5	0.88	NO	0.914	1.000	41.759	41.78	1.000	1.001	111.26	111	0.171	111
8	8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.751	1.000	25.671	25.68	1.001	1.001	11.386	114	0.0333	11.4
9	9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.893	1.000	30.236	30.23	1.001	1.001	55.728	111	0.0942	55.7
10	10 2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.935	1.000	31.222	31.21	1.001	1.000	60.229	120	0.0851	60.2
11	11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.884	1.000	33.984	33.99	1.000	1.000	55.936	112	0.113	55.9
12	12 1,2,3,6,7,8-HxCDF	5.08e5	1.18	NO	0.889	1.000	34.122	34.12	1.000	1.000	56.761	114	0.107	56.8
13	13 2,3,4,6,7,8-HxCDF	4.49e5	1.21	NO	0.934	1.000	34.732	34.71	1.001	1.000	56.468	113	0.117	56.5
14	14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.871	1.000	35.614	35.62	1.000	1.000	55.299	111	0.174	55.3
15	15 1,2,3,4,6,7,8-HpCDF	3.01e5	1.01	NO	0.873	1.000	37.430	37.40	1.001	1.000	54.506	109	0.182	54.5
16	16 1,2,3,4,7,8,9-HpCDF	2.38e5	1.00	NO	1.01	1.000	39.331	39.34	1.000	1.000	57.740	115	0.198	57.7
17	17 OCDF	5.22e5	0.87	NO	0.806	1.000	41.951	41.96	1.000	1.000	113.77	114	0.201	114
18	18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.16	1.000	26.584	26.54	1.026	1.025	91.859	91.9	0.0837	
19	19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.849	1.000	31.784	31.50	1.227	1.216	88.503	88.5	0.117	
20	20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.779	1.000	34.874	34.87	1.014	1.014	88.587	88.6	0.180	
21	21 13C-1,2,3,6,7,8-HxCDD	8.41e5	1.26	NO	1.02	1.000	34.987	34.97	1.017	1.017	88.739	88.7	0.138	
22	22 13C-1,2,3,7,8,9-HxCDD	7.39e5	1.24	NO	0.903	1.000	35.259	35.25	1.025	1.025	87.785	87.8	0.155	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.53e5	1.04	NO	0.689	1.000	38.787	38.79	1.128	1.128	86.116	86.1	0.160	
24	24 13C-OCDD	1.01e6	0.89	NO	0.652	1.000	41.813	41.76	1.216	1.214	166.64	83.3	0.212	
25	25 13C-2,3,7,8-TCDF	1.73e6	0.77	NO	1.06	1.000	25.623	25.65	0.989	0.990	90.815	90.8	0.116	
26	26 13C-1,2,3,7,8-PeCDF	1.35e6	1.61	NO	0.838	1.000	30.163	30.21	1.165	1.167	89.693	89.7	0.169	
27	27 13C-2,3,4,7,8-PeCDF	1.33e6	1.57	NO	0.817	1.000	31.119	31.19	1.202	1.204	90.666	90.7	0.174	
28	28 13C-1,2,3,4,7,8-HxCDF	8.51e5	0.51	NO	1.01	1.000	34.004	33.98	0.989	0.988	90.589	90.6	0.222	
29	29 13C-1,2,3,6,7,8-HxCDF	1.01e6	0.51	NO	1.17	1.000	34.127	34.11	0.992	0.992	92.509	92.5	0.191	
30	30 13C-2,3,4,6,7,8-HxCDF	8.50e5	0.51	NO	1.02	1.000	34.702	34.70	1.009	1.009	89.276	89.3	0.219	
31	31 13C-1,2,3,7,8,9-HxCDF	7.33e5	0.50	NO	0.860	1.000	35.603	35.61	1.035	1.036	91.476	91.5	0.260	

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-8.qld

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Printed: Friday, May 29, 2020 7:44:35 AM Pacific Daylight Time

Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_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	6.33e5	0.43	NO	0.774	1.000	37.353	37.39	1.086	1.087	87.682	87.7	0.235	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.07e5	0.42	NO	0.521	1.000	39.386	39.33	1.145	1.144	83.716	83.7	0.350	
34	34 13C-OCDF	1.14e6	0.88	NO	0.746	1.000	41.985	41.95	1.221	1.220	163.83	81.9	0.148	
35	35 37Cl-2,3,7,8-TCDD	1.28e5			1.04	1.000	26.615	26.57	1.028	1.026	10.416	104	0.0149	
36	36 13C-1,2,3,4-TCDD	1.19e6	0.81	NO	1.00	1.000	26.000	25.90	1.000	1.000	100.00	100	0.0967	
37	37 13C-1,2,3,4-TCDF	1.80e6	0.79	NO	1.00	1.000	24.360	24.22	1.000	1.000	100.00	100	0.123	
38	38 13C-1,2,3,4,6,9-HxCDF	9.32e5	0.51	NO	1.00	1.000	34.420	34.39	1.000	1.000	100.00	100	0.223	

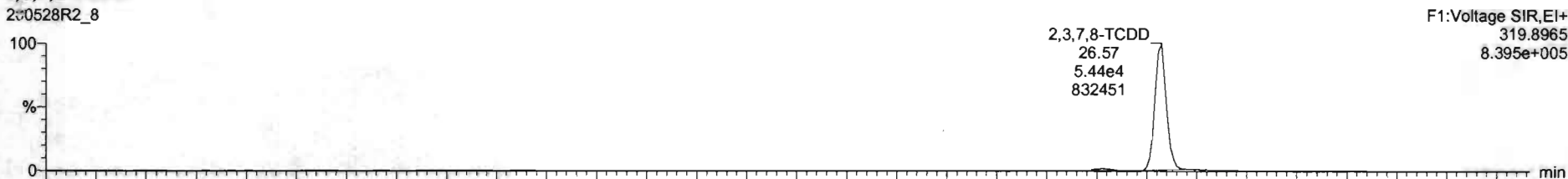
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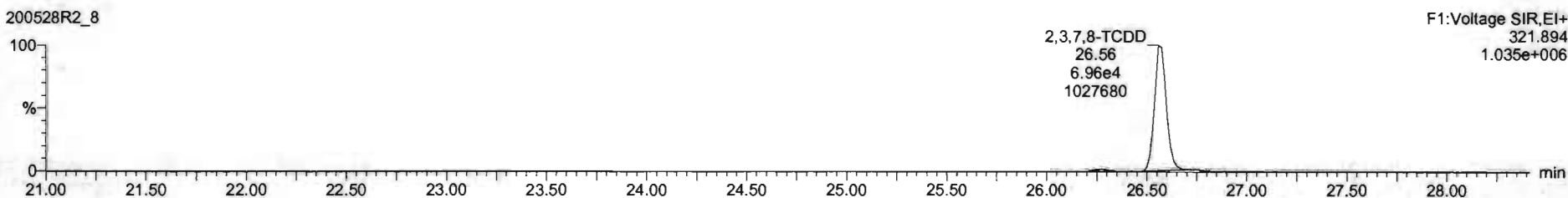
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Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

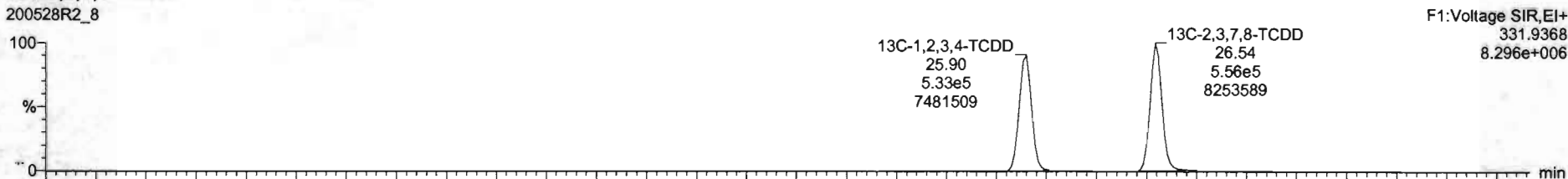
2,3,7,8-TCDD
200528R2_8



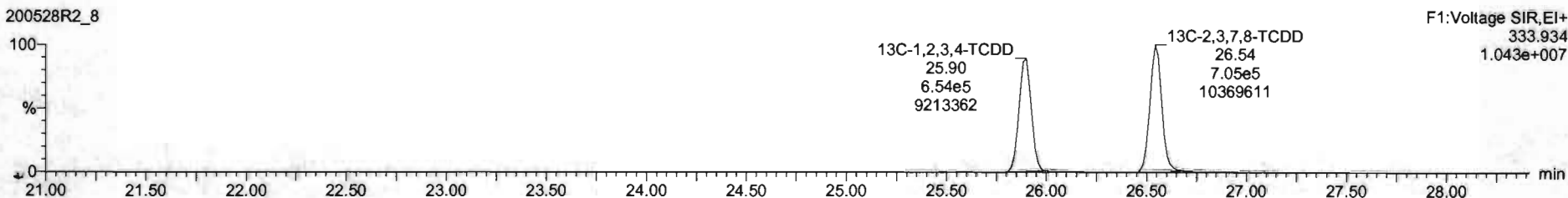
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13C-2,3,7,8-TCDD
200528R2_8



200528R2_8



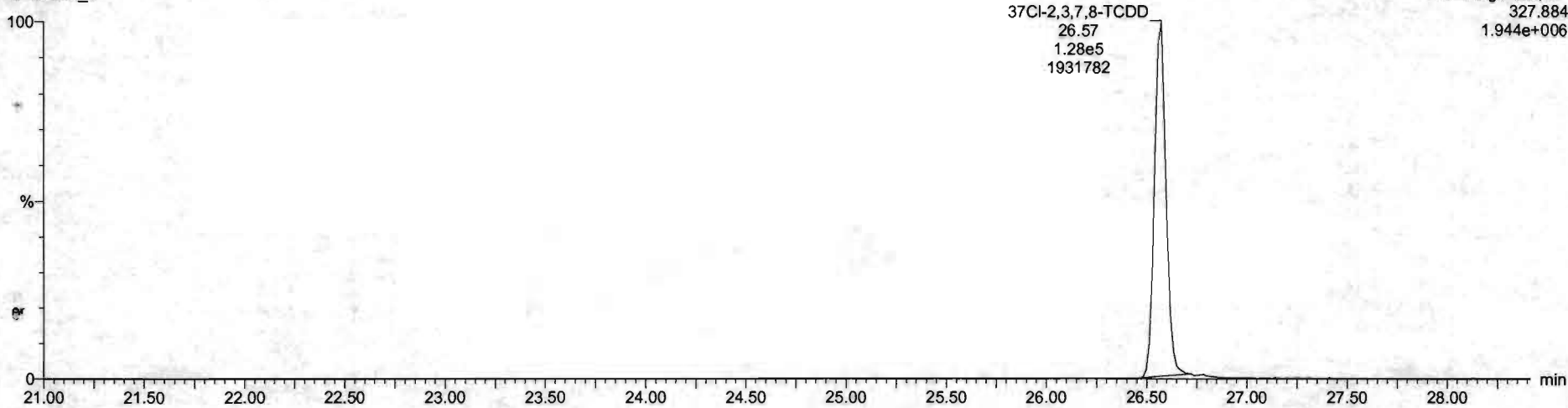
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37Cl-2,3,7,8-TCDD

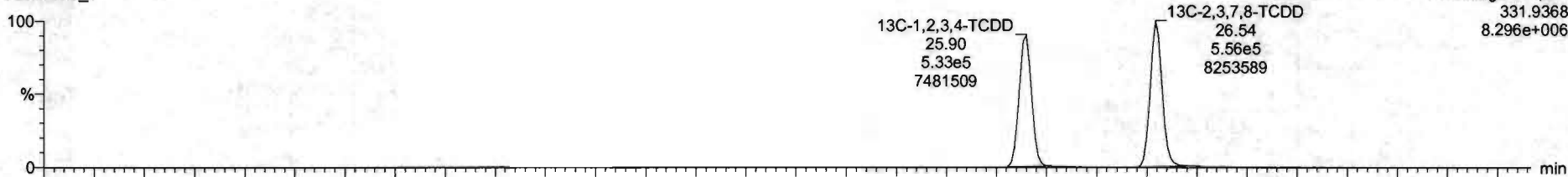
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F1:Voltage SIR,EI+
327.884
1.944e+006

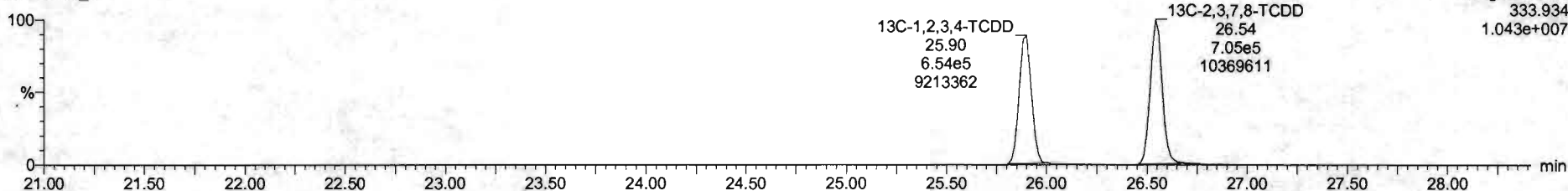
13C-1,2,3,4-TCDD

200528R2_8



F1:Voltage SIR,EI+
331.9368
8.296e+006

200528R2_8



F1:Voltage SIR,EI+
333.934
1.043e+007

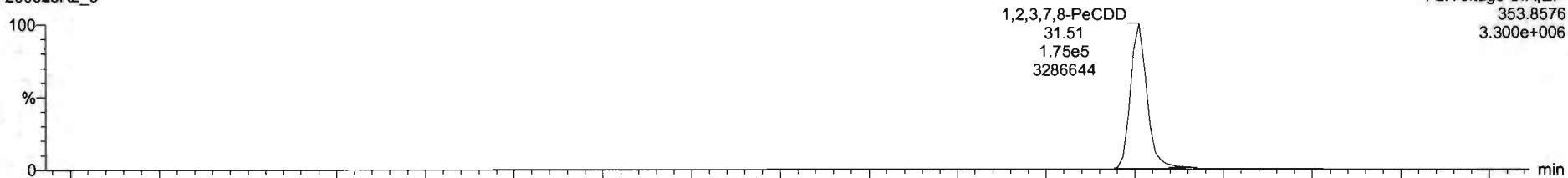
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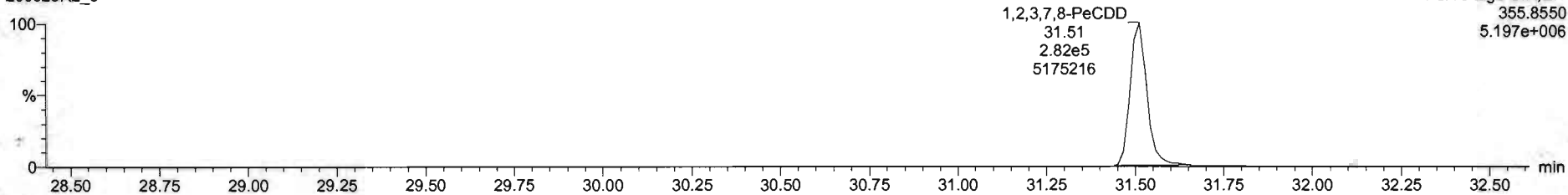
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1,2,3,7,8-PeCDD

200528R2_8

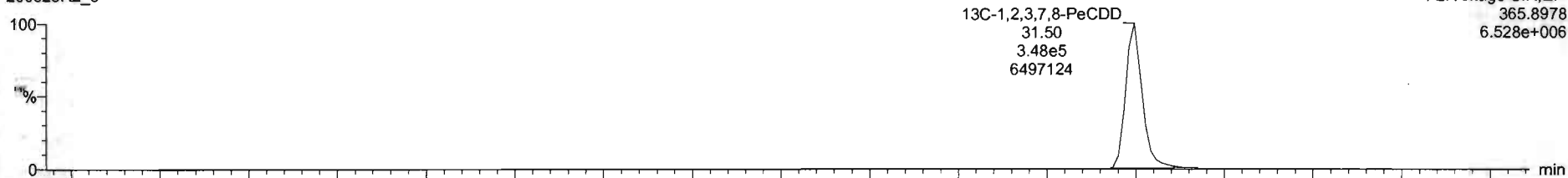


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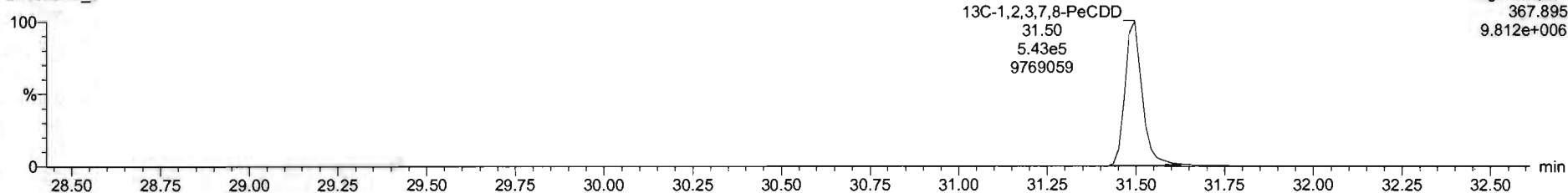


13C-1,2,3,7,8-PeCDD

200528R2_8



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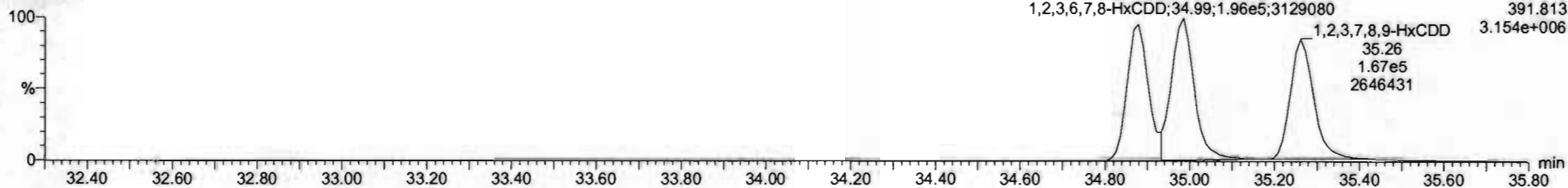
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1,2,3,4,7,8-HxCDD

200528R2_8

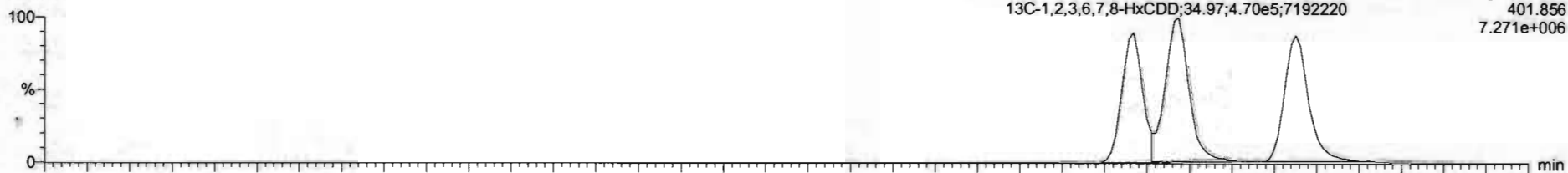


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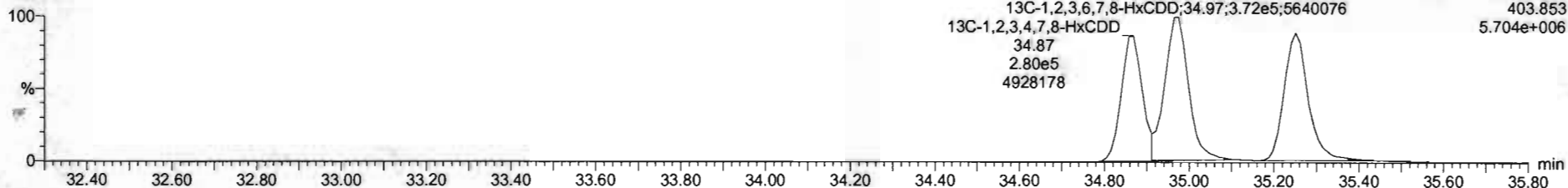


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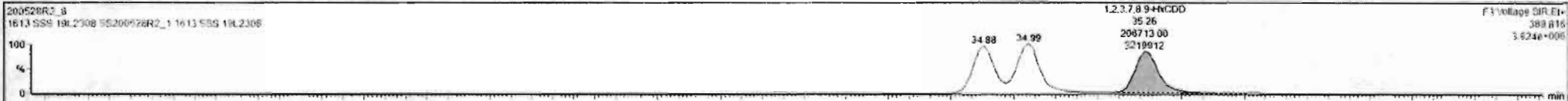
200528R2_8



200528R2_8



#	Name	Resp	RA	nby	RRF	wthvol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.24e5	0.76	NO	0.6883	1.000	26.57	1.001	11.1	111	0.0252	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	56.4	113	0.0622	56.4
3	1,2,3,4,7,8-HxCDD	2.86e5	1.22	NO	1.0334	1.000	34.86	1.000	56.0	116	0.101	56.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.72	NO	0.8923	1.000	34.99	1.000	58.0	116	0.105	58.0
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.6969	1.000	35.26	1.009	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.57e5	1.02	NO	0.8639	1.000	36.50	1.000	55.6	112	0.160	55.6
7	OCDD	5.24e5	0.85	NO	0.9136	1.000	41.78	1.001	113	113	0.171	113
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0333	11.4
9	1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	113	0.0942	55.7
10	2,3,4,7,8-PeCDF	7.62e5	1.54	NO	0.9348	1.000	21.21	1.000	62.1	124	0.0853	62.1
11	1,2,3,4,7,8-HxCDF	4.38e5	1.19	NO	0.8845	1.000	23.99	1.000	58.9	115	0.114	58.9
12	1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8892	1.000	34.12	1.000	59.1	116	0.108	59.1
13	2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.71	1.000	57.2	114	0.117	57.2
14	1,2,3,7,8,9-HxCDF	3.52e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15	1,2,3,4,5,7,8-HpCDF	3.16e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	115	0.186	58.9
16	1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.190	59.2
17	OCDF	5.22e5	0.97	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1583	1.000	26.54	1.025	91.9	91.9	0.0837	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	88.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7750	1.000	34.87	1.014	86.6	86.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.28	NO	1.0187	1.000	34.97	1.017	88.7	86.7	0.136	



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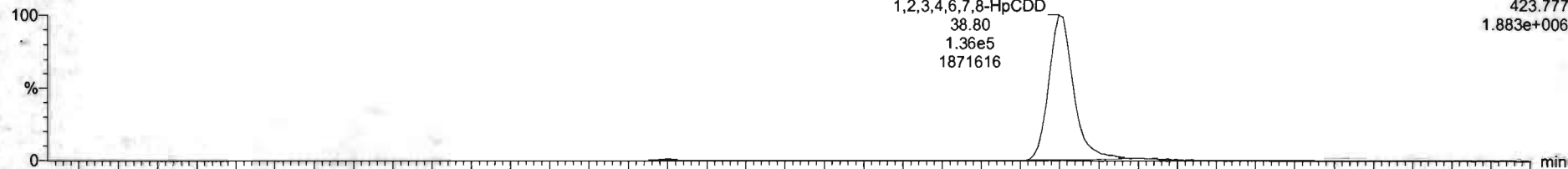
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Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

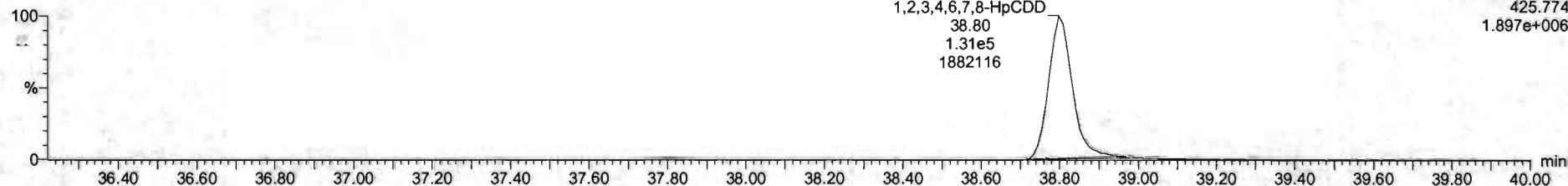
1,2,3,4,6,7,8-HpCDD

200528R2_8



F4:Voltage SIR,EI+
423.777
1.883e+006

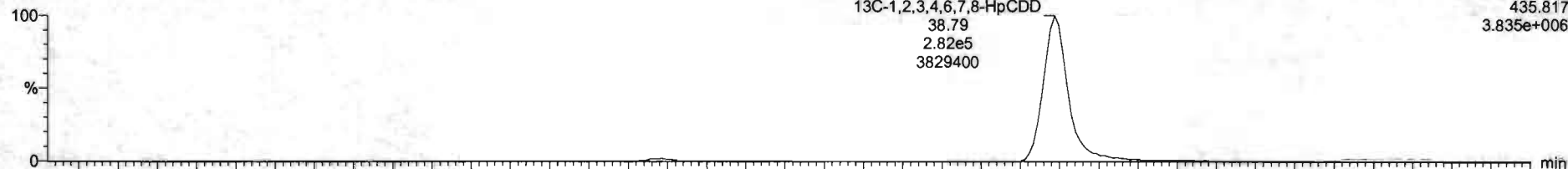
200528R2_8



F4:Voltage SIR,EI+
425.774
1.897e+006

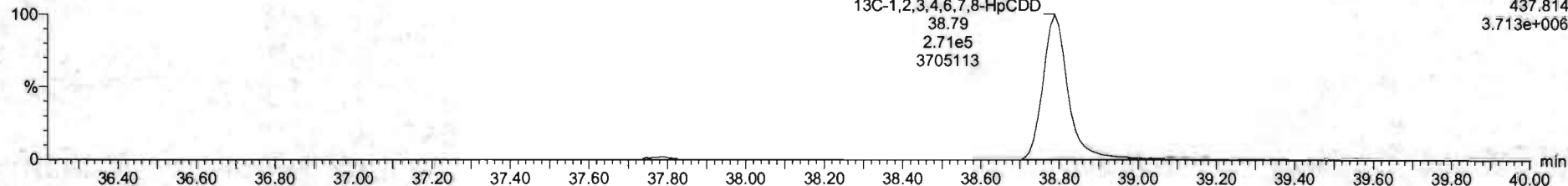
13C-1,2,3,4,6,7,8-HpCDD

200528R2_8



F4:Voltage SIR,EI+
435.817
3.835e+006

200528R2_8



F4:Voltage SIR,EI+
437.814
3.713e+006

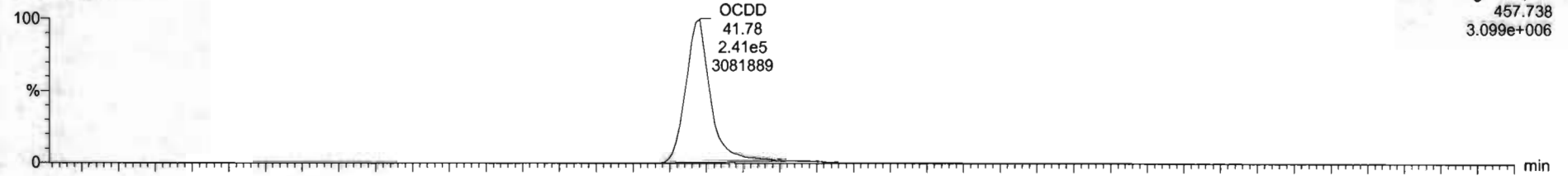
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Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

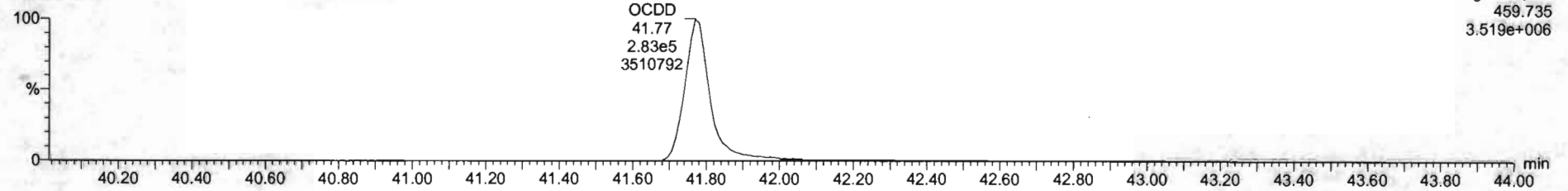
OCDD

200528R2_8



F5: Voltage SIR, EI+
457.738
3.099e+006

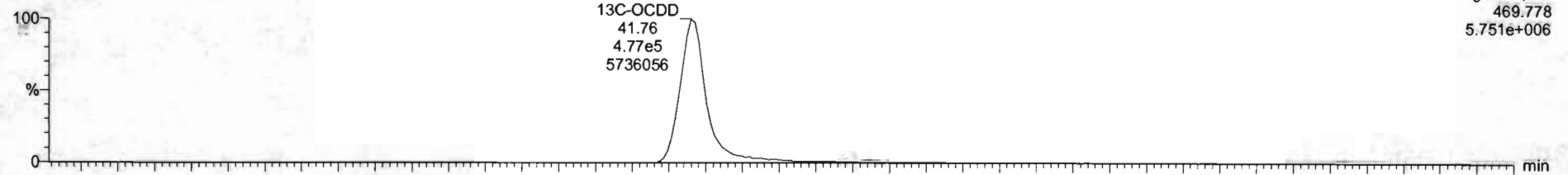
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F5: Voltage SIR, EI+
459.735
3.519e+006

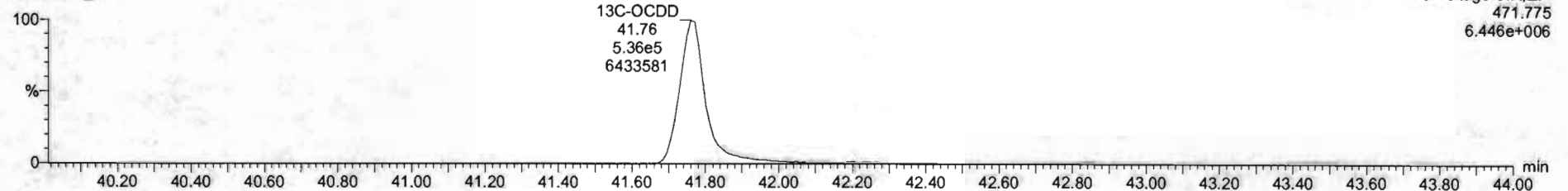
13C-OCDD

200528R2_8



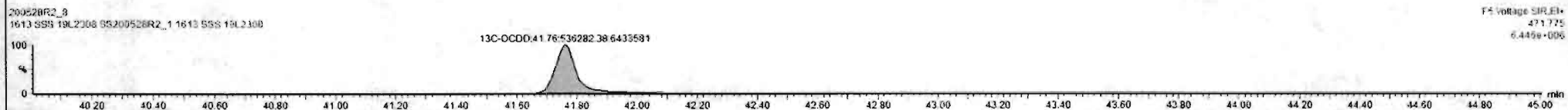
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469.778
5.751e+006

200528R2_8



F5: Voltage SIR, EI+
471.775
6.446e+006

Name	Resp	RA	dy	RRF	wtVol	RT	RRT	Conc	%Rec	OL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.78	NO	0.8863	1.000	26.57	1.001	11.1	111	0.0252	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	58.4	113	0.0622	56.1
3 1,2,3,4,7,8-HxCDD	2.86e5	1.22	NO	1.0334	1.000	34.88	1.000	56.0	116	0.101	58.0
4 1,2,3,6,7,8-HxCDD	4.38e5	1.22	NO	0.8923	1.000	34.99	1.000	58.0	116	0.105	56.6
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8265	1.000	35.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.8639	1.000	36.60	1.000	55.6	112	0.168	58.6
7 OCDD	5.15e5	0.88	NO	0.9138	1.000	41.78	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.46e5	0.75	NO	0.7510	1.000	25.88	1.001	11.4	114	0.0333	11.4
9 1,2,3,7,8-PeCDF	6.77e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0642	55.7
10 2,3,4,7,8-PeCDF	7.62e5	1.54	NO	0.9348	1.000	31.21	1.000	62.1	124	0.0853	62.1
11 1,2,3,4,7,8-HxCDF	4.38e5	1.19	NO	0.8545	1.000	33.99	1.000	58.9	115	0.114	58.9
12 1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8852	1.000	34.12	1.000	59.1	115	0.100	59.1
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.21	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,6,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	119	0.193	59.2
17 OCDF	5.22e5	0.87	NO	0.8065	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0627	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8490	1.000	31.50	1.216	86.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	88.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.136	



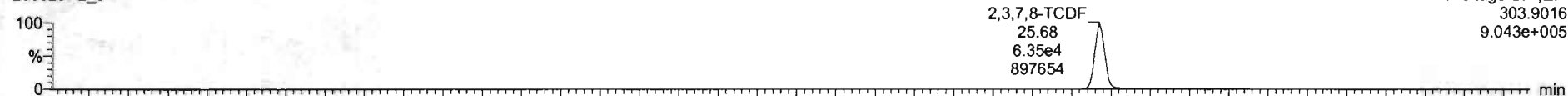
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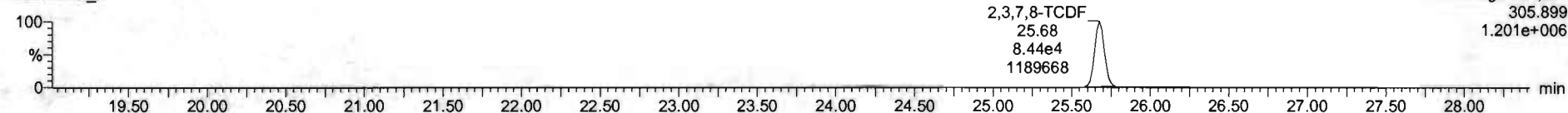
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2,3,7,8-TCDF

200528R2_8

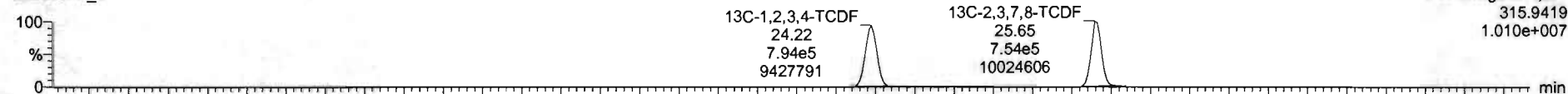


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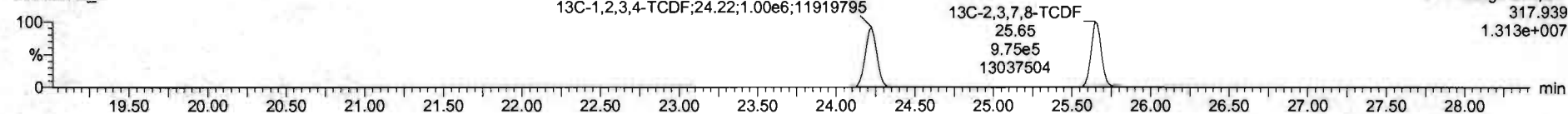


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200528R2_8

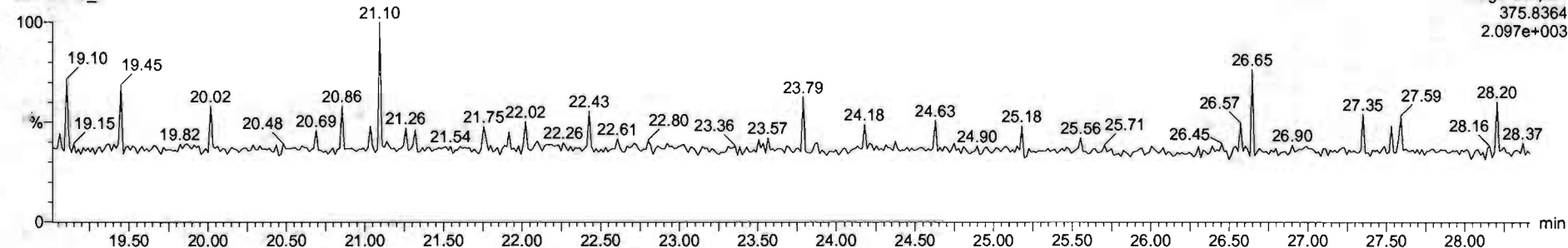


200528R2_8



DPE1

200528R2_8



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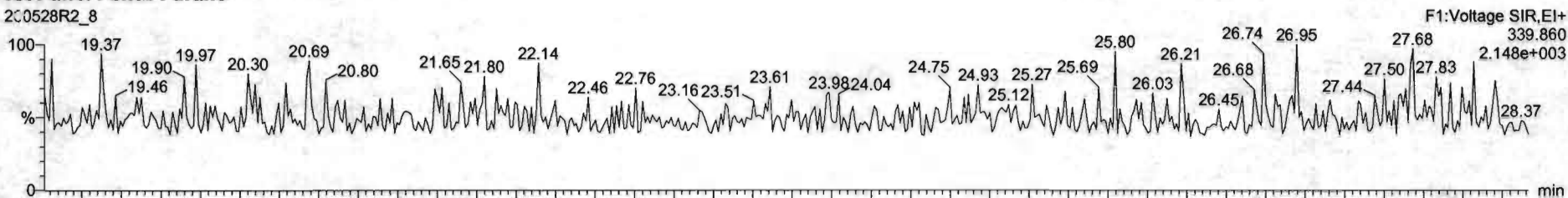
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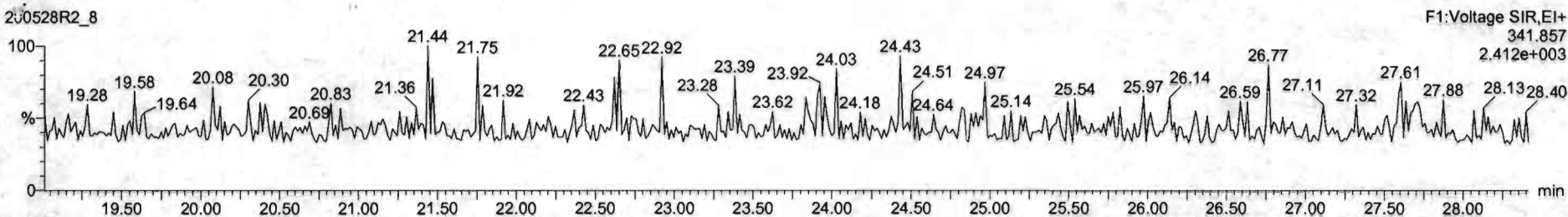
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1st Func. Penta-Furans

200528R2_8

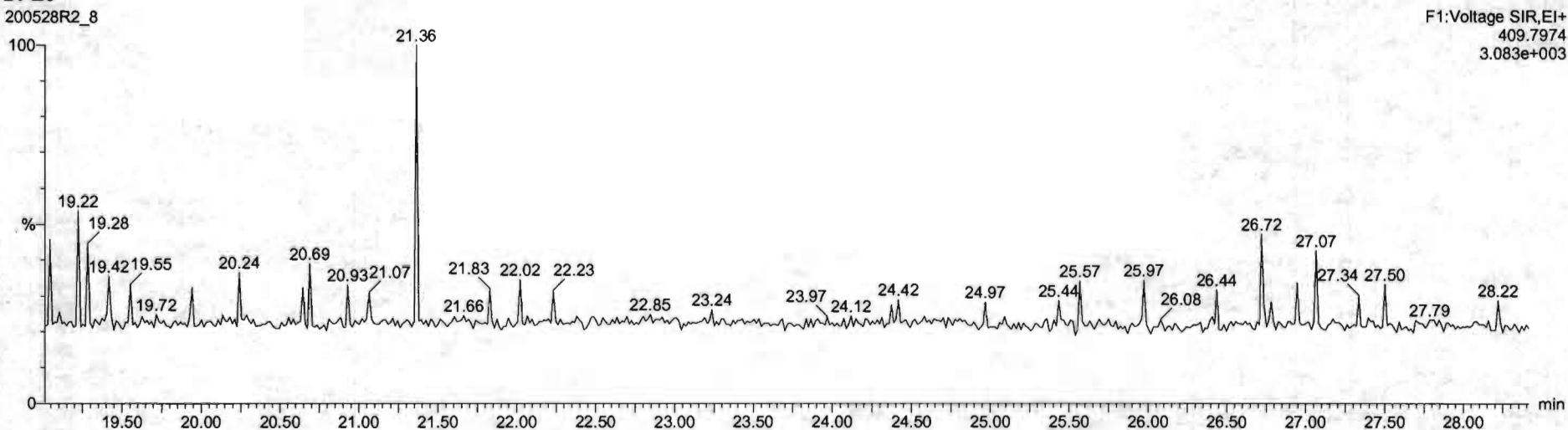


200528R2_8



DPE6

200528R2_8



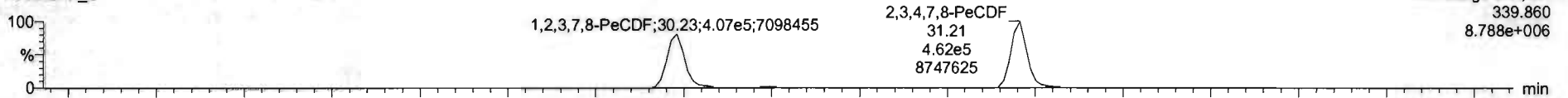
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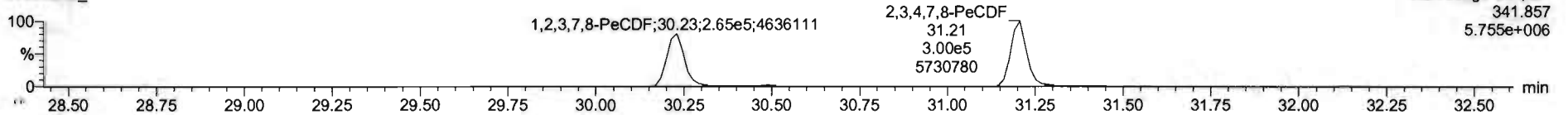
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1,2,3,7,8-PeCDF

200528R2_8

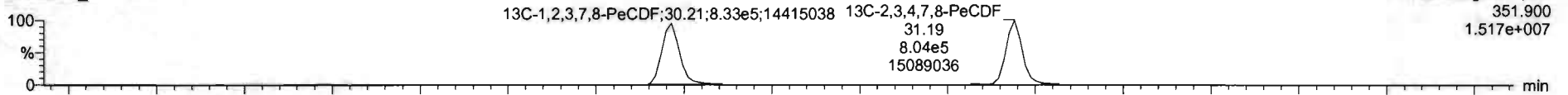


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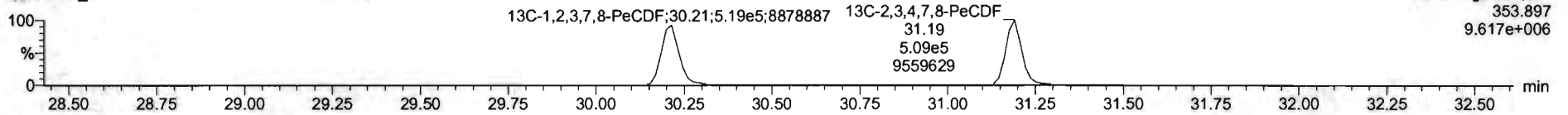


13C-1,2,3,7,8-PeCDF

200528R2_8

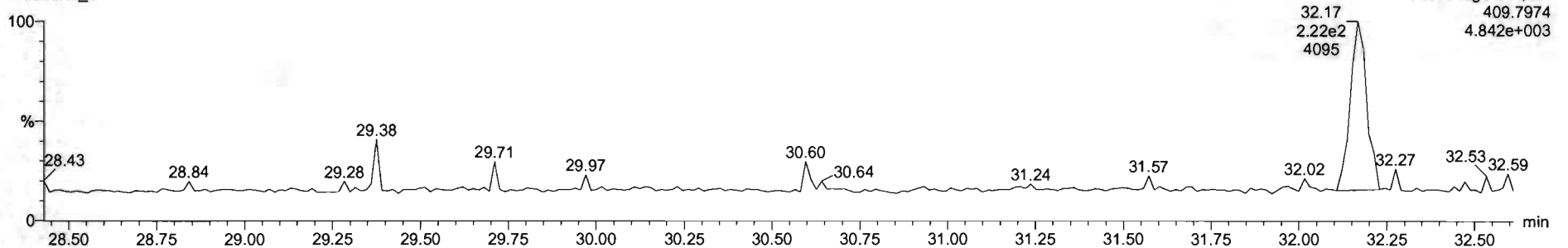


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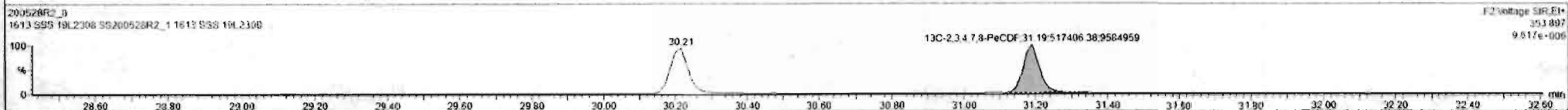


DPE2

200528R2_8



Name	Resp	RA	nly	RRF	wtval	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.76	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	56.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	2.06e5	1.22	NO	1.0334	1.000	34.85	1.000	56.0	116	0.101	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8925	1.000	34.99	1.000	58.0	116	0.105	56.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8264	1.000	35.05	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.87e5	1.03	NO	0.8639	1.000	36.80	1.000	55.8	112	0.168	55.8
7 OCDD	5.15e5	0.38	NO	0.9136	1.000	41.75	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0323	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	20.23	1.001	55.7	111	0.0942	55.7
10 2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.9348	1.000	31.21	1.000	60.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.36e5	1.19	NO	0.8845	1.000	23.99	1.000	58.9	118	0.114	56.9
12 1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8252	1.000	34.12	1.000	59.1	118	0.108	59.1
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.71	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,6,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17 OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0837	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	88.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	24.87	1.014	86.6	86.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.128	



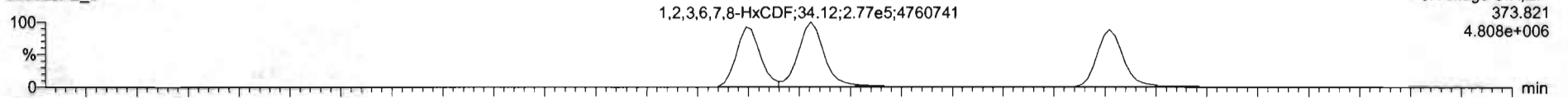
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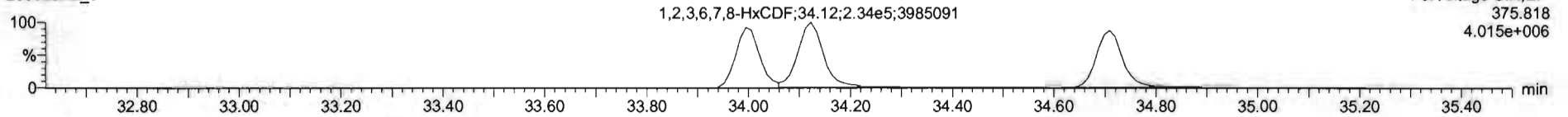
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1,2,3,4,7,8-HxCDF

200528R2_8

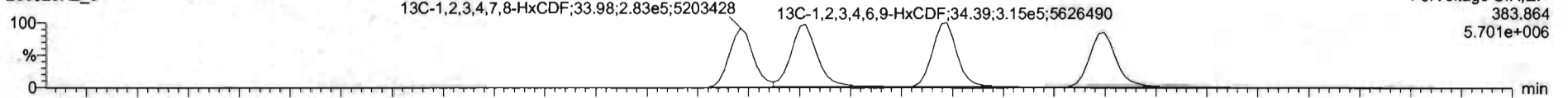


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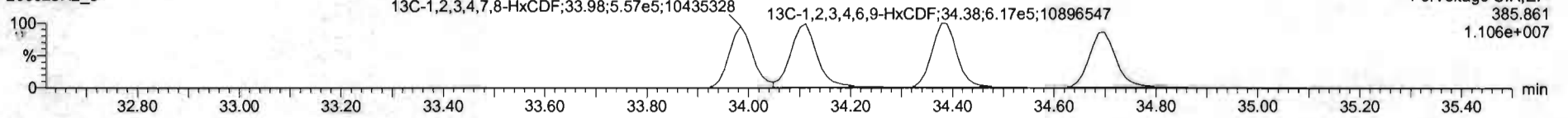


13C-1,2,3,4,7,8-HxCDF

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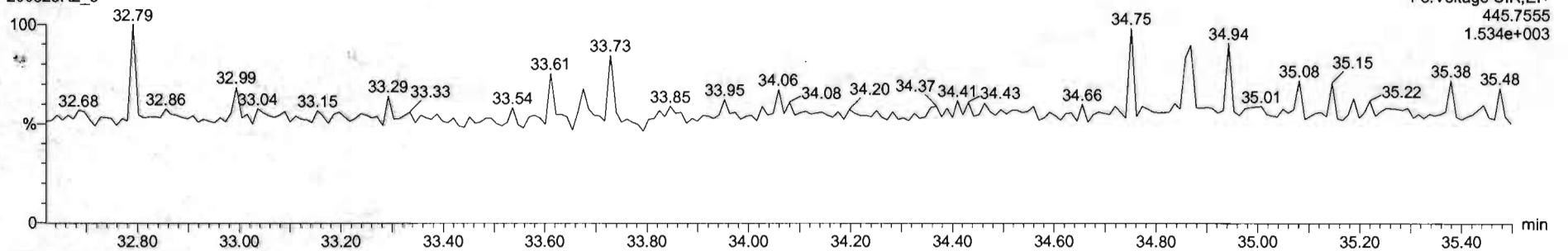


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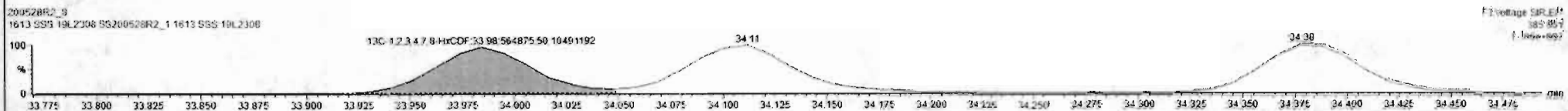
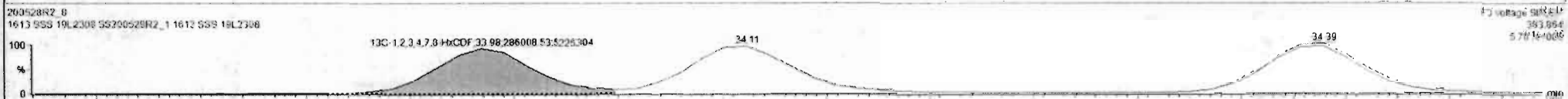
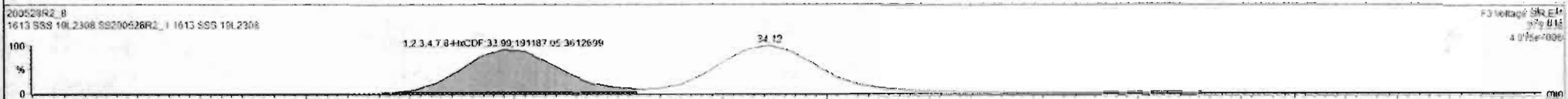
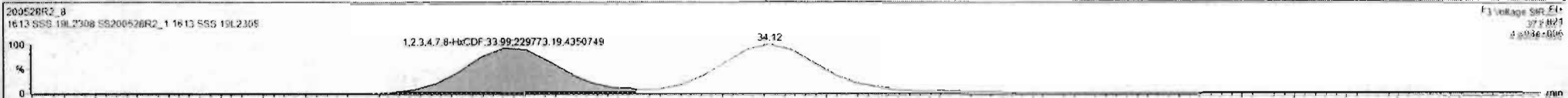


DPE3

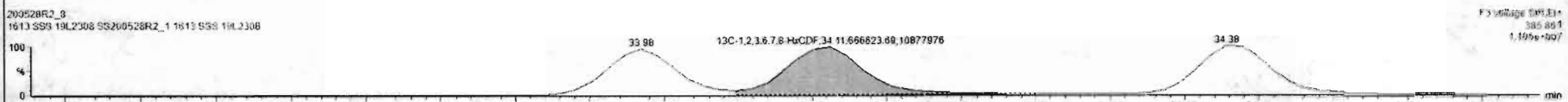
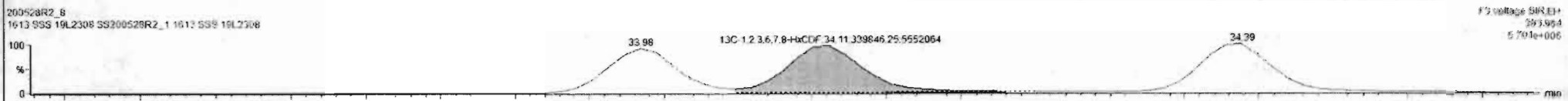
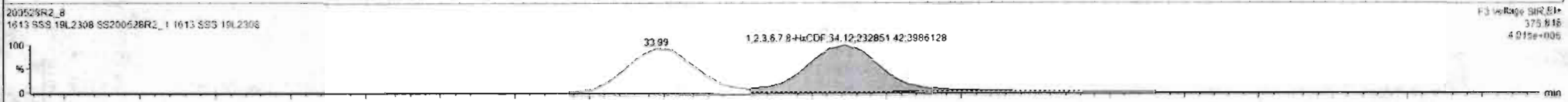
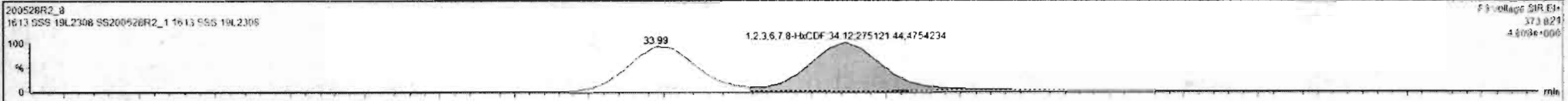
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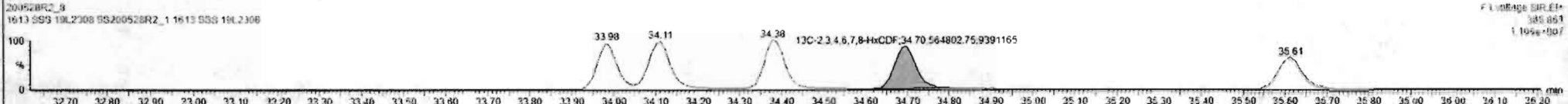
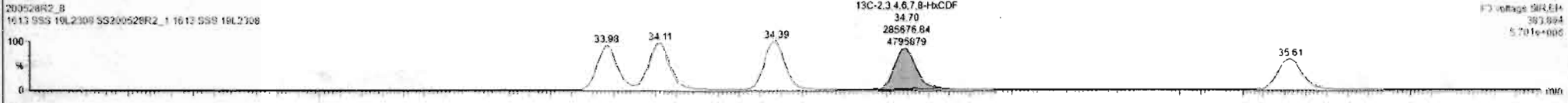
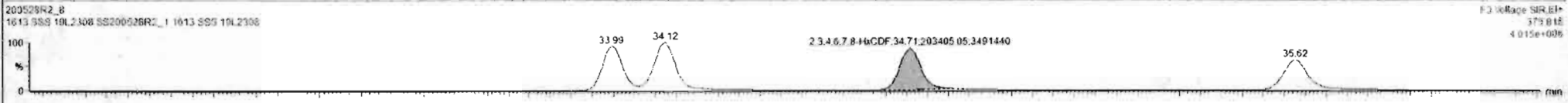
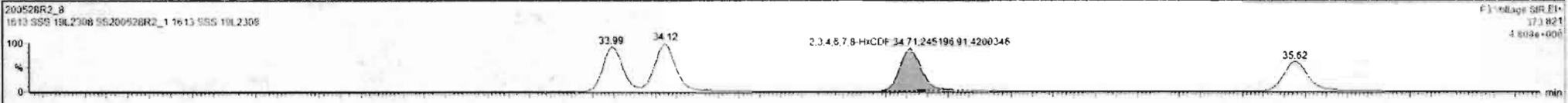
Name	Resp	RA	nly	RRF	wVal	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.76	NO	0.8863	1.000	26.57	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.8981	1.000	31.51	1.000	56.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	3.26e5	1.22	NO	1.0334	1.000	24.86	1.000	56.0	116	0.1011	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8929	1.000	24.99	1.000	58.0	116	0.105	56.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8869	1.000	25.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.8639	1.000	35.50	1.000	55.6	112	0.168	55.6
7 OCDD	5.15e5	0.68	NO	0.9136	1.000	41.75	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7519	1.000	25.65	1.001	11.4	114	0.0333	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0942	55.7
10 1,2,3,4,7,8-HxCDF	7.50e5	1.54	NO	0.9346	1.000	21.21	1.000	60.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.8845	1.000	23.99	1.000	55.9	112	0.113	55.9
12 1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8882	1.000	24.12	1.000	59.1	118	0.100	59.1
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	24.71	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	25.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,5,7,8-HpCDF	3.16e5	1.01	NO	0.8734	1.000	27.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0120	1.000	39.34	1.000	59.2	118	0.199	59.2
17 OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0837	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	86.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	24.87	1.014	85.6	88.6	0.160	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.36	NO	1.0187	1.000	24.97	1.017	88.7	88.7	0.138	



Name	Reap	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.76	NO	0.8863	1.000	26.67	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.53	1.000	56.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	3.86e5	1.22	NO	1.0334	1.000	34.86	1.000	56.0	116	0.101	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8973	1.000	34.99	1.000	58.0	116	0.105	58.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8969	1.000	35.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,5,7,8-HpCDD	2.67e5	1.02	NO	0.8639	1.000	36.60	1.000	55.6	112	0.168	55.6
7 OCDD	5.15e5	0.88	NO	0.9136	1.000	41.78	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0333	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0542	55.7
10 1,2,3,7,8,9-HxCDF	7.50e5	1.54	NO	0.9348	1.000	21.21	1.000	60.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.6845	1.000	23.99	1.000	55.9	112	0.113	55.9
12 1,2,3,6,7,8-HxCDF	5.06e5	1.18	NO	0.6892	1.000	34.12	1.000	56.3	114	0.127	56.3
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.71	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,5,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17 OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.76e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.5	0.0837	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	88.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	86.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.136	



SI	Name	Resp	RA	Adj	RFI	WVol	RT	RRT	Conc	%Rec	DL	EMFC
1	2,3,7,8-TCDD	1.24e5	0.78	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0262	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	58.4	113	0.0622	56.4
3	1,2,3,4,7,8-HxCDD	3.66e5	1.22	NO	1.0314	1.000	34.88	1.000	56.0	116	0.101	58.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8923	1.000	34.99	1.000	58.0	116	0.100	58.0
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8869	1.000	35.26	1.000	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.67e5	1.93	NO	0.9039	1.000	38.80	1.000	55.8	112	0.160	55.8
7	OCDD	5.15e5	0.88	NO	0.9136	1.000	41.78	1.001	111	111	0.171	111
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.88	1.001	11.4	114	0.0333	11.4
9	1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0942	55.7
10	1,2,3,4,7,8-HxCDF	7.50e5	1.54	NO	0.9148	1.000	31.21	1.000	60.2	120	0.0851	60.2
11	1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.8845	1.000	33.99	1.000	55.9	112	0.113	55.9
12	1,2,3,6,7,8-HxCDF	5.06e5	1.16	NO	0.8852	1.000	34.12	1.000	56.8	114	0.107	56.8
13	2,3,4,6,7,8-HxCDF	4.49e5	1.21	NO	0.9341	1.000	34.71	1.000	56.5	113	0.117	56.5
14	1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8797	1.000	35.62	1.000	55.3	111	0.174	55.3
15	1,2,3,4,6,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.196	58.9
16	1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17	OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.75	NO	1.1583	1.000	26.54	1.025	91.9	91.9	0.0637	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.84	NO	0.8490	1.000	31.50	1.216	88.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	86.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0187	1.000	34.97	1.017	88.7	88.7	0.136	



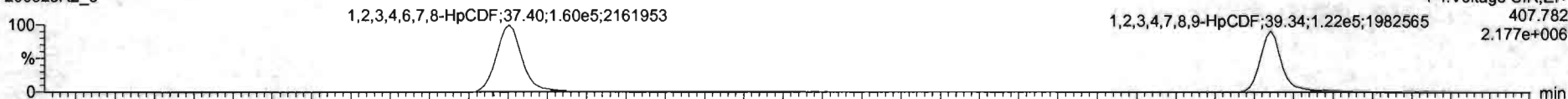
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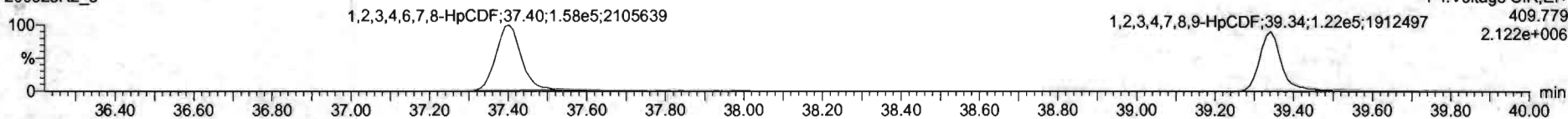
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200528R2_8



200528R2_8

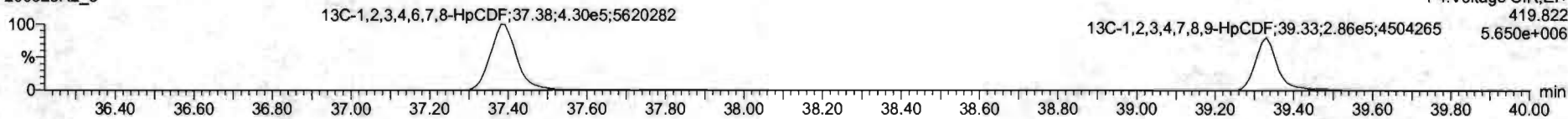


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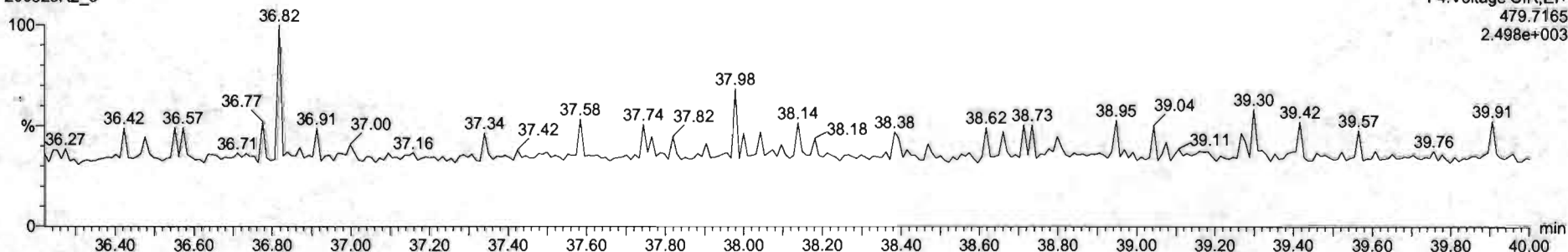


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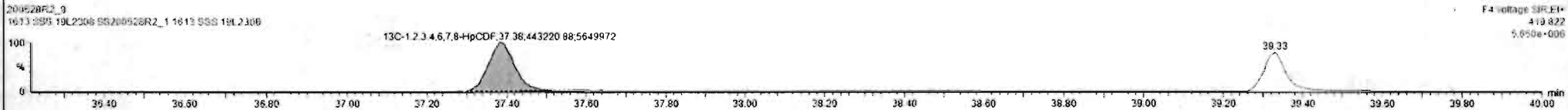


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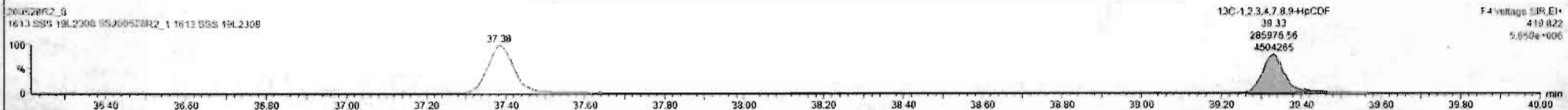
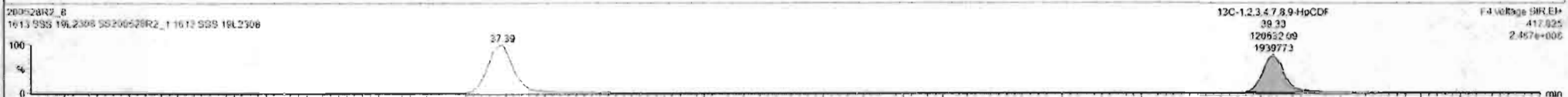
200528R2_8



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.78	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0252	11.1
2 1,2,3,7,8-PeCDD	5.57e5	0.62	NO	0.9081	1.000	31.51	1.000	58.4	113	0.0622	58.4
3 1,2,3,4,7,8-HxCDD	3.56e5	1.22	NO	1.0334	1.000	34.88	1.000	56.0	116	0.101	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8523	1.000	34.99	1.000	58.0	118	0.105	58.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8265	1.000	35.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.8639	1.000	36.80	1.000	55.8	112	0.168	55.8
7 OCDD	5.15e5	0.88	NO	0.9136	1.000	41.78	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0533	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8025	1.000	30.21	1.001	25.7	111	0.0542	55.7
10 2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.9348	1.000	31.21	1.000	50.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.8845	1.000	33.95	1.000	55.9	112	0.113	55.9
12 1,2,3,6,7,8-HxCDF	5.08e5	1.18	NO	0.8862	1.000	34.12	1.000	56.8	114	0.107	56.8
13 2,3,4,6,7,8-HxCDF	4.45e5	1.21	NO	0.9341	1.000	34.71	1.000	56.5	113	0.117	56.5
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,6,7,8-HpCDF	3.01e5	1.01	NO	0.8734	1.000	37.48	1.000	54.5	108	0.152	54.5
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.09	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17 OCDF	5.27e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e8	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0637	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8490	1.000	31.50	1.216	66.5	68.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	88.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	8.41e5	1.26	NO	1.0167	1.000	34.97	1.017	86.7	86.7	0.138	



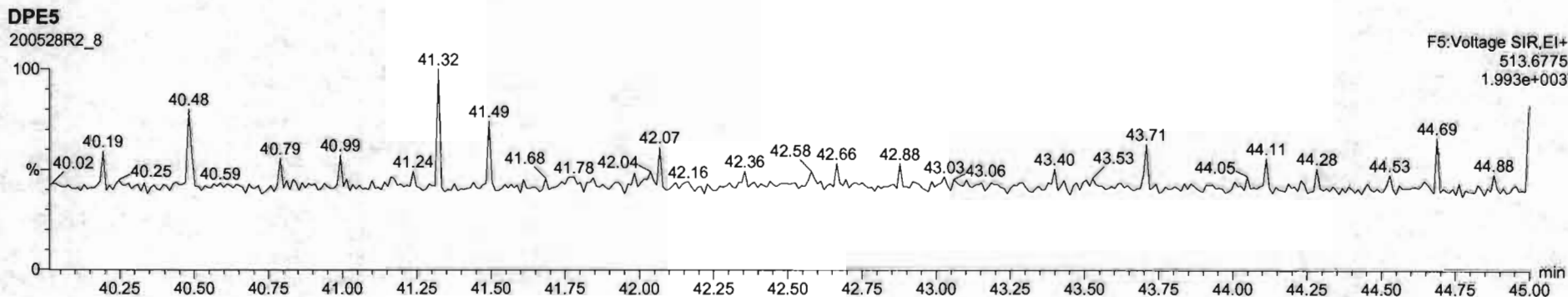
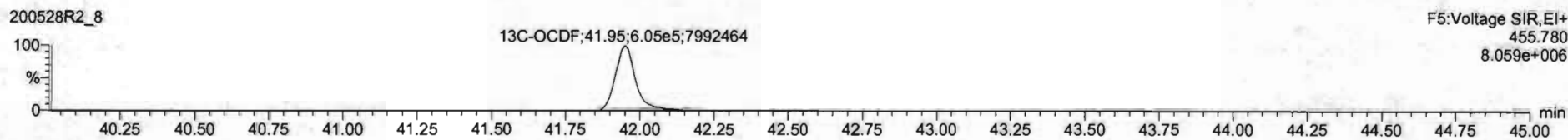
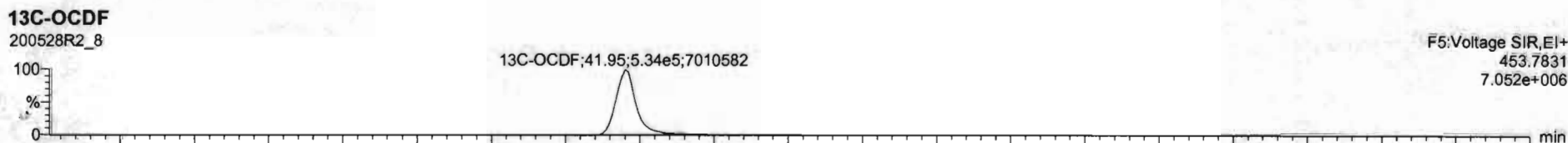
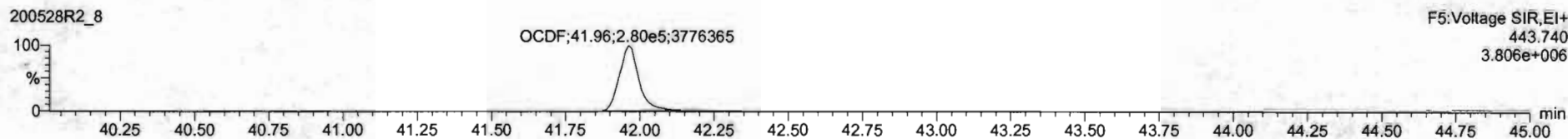
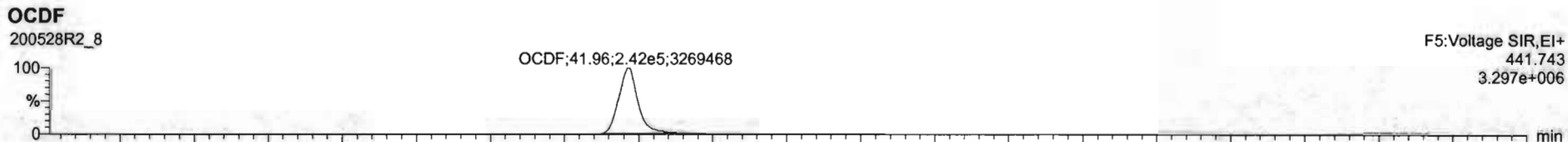
SL	Name	Resp	RA	nry	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.24e5	0.76	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0262	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.82	NO	0.9081	1.000	31.01	1.000	58.4	113	0.0622	56.1
3	1,2,3,4,7,8-HxCDD	2.56e5	1.22	NO	1.0334	1.000	24.86	1.000	58.0	116	0.101	56.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8923	1.000	24.99	1.000	58.0	116	0.105	56.0
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8265	1.000	26.26	1.000	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.61e5	1.03	NO	0.8639	1.000	26.60	1.000	56.6	112	0.168	56.6
7	OCDD	5.15e5	0.88	NO	0.9136	1.000	41.78	1.001	111	111	0.171	111
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.65	1.001	11.4	114	0.0303	11.4
9	1,2,3,7,8-PeCDF	4.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0642	55.7
10	2,3,4,7,8-PeCDF	7.58e5	1.54	NO	0.9346	1.000	31.21	1.000	50.2	126	0.0851	60.2
11	1,2,2',4',7,8-HxCDF	4.21e5	1.20	NO	0.8545	1.000	33.99	1.000	55.9	112	0.113	55.9
12	1,2,3,6,7,8-HxCDF	2.08e5	1.18	NO	0.8892	1.000	34.12	1.000	58.8	114	0.107	56.8
13	2,3,4,6,7,8-HxCDF	4.48e5	1.21	NO	0.9341	1.000	24.71	1.000	56.5	113	0.117	56.5
14	1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	25.82	1.000	55.3	111	0.174	55.3
15	1,2,3,4,6,7,8-HpCDF	3.01e5	1.01	NO	0.8734	1.000	37.40	1.000	54.5	109	0.182	54.5
16	1,2,3,4,7,8,9-HpCDF	2.35e5	1.00	NO	1.0128	1.000	39.24	1.000	57.3	115	0.198	57.3
17	OCDF	5.27e5	0.67	NO	0.8065	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0837	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8490	1.000	31.50	1.216	86.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	24.87	1.014	88.6	88.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	24.97	1.017	88.7	88.7	0.138	



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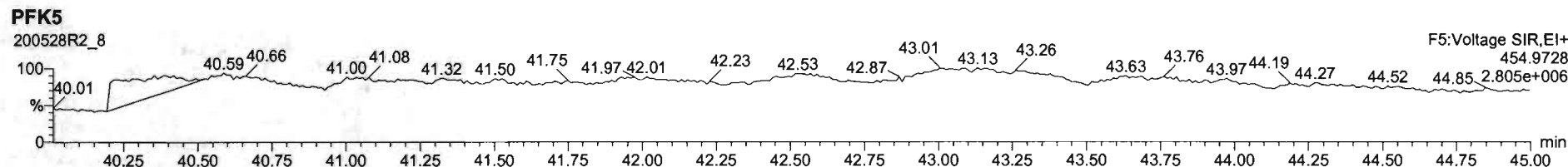
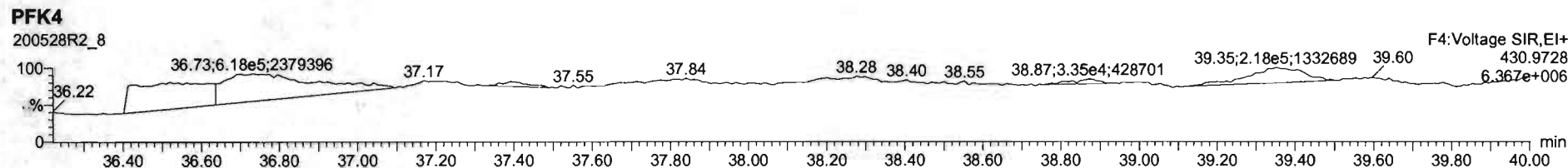
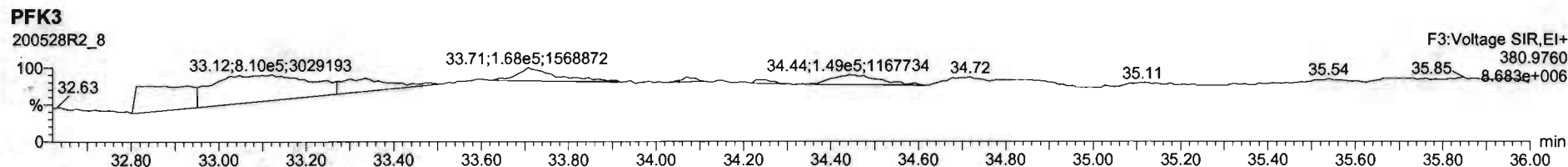
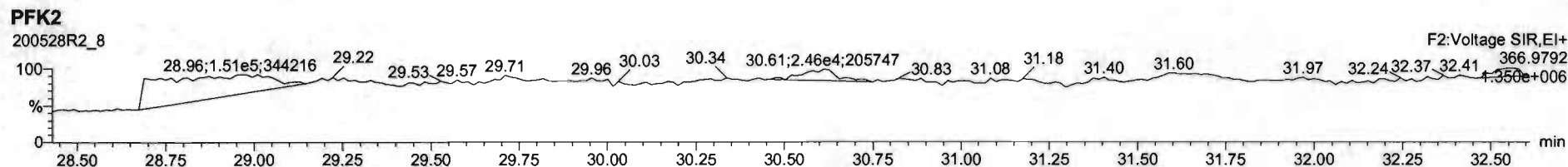
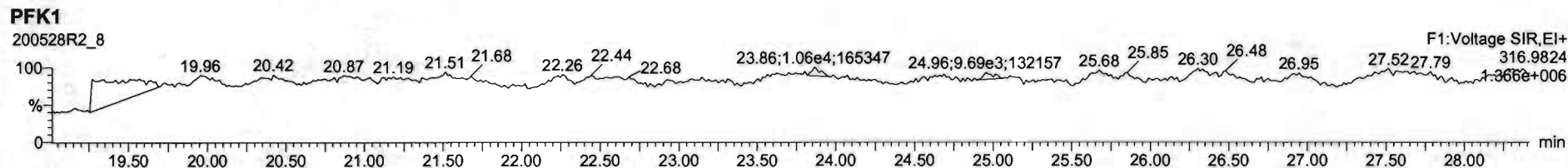
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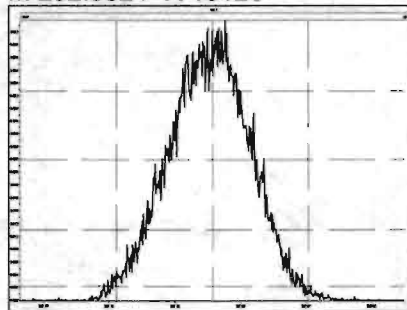
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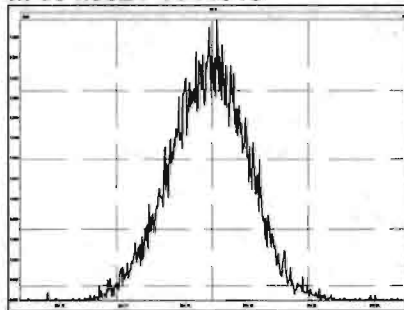
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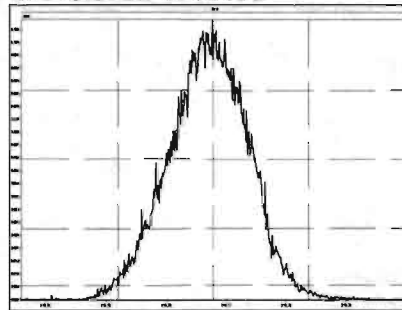
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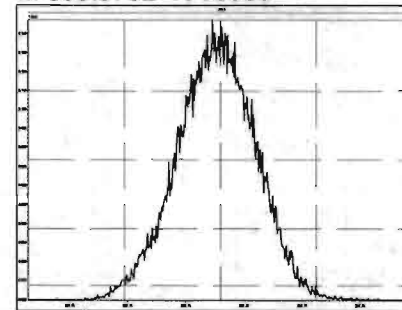
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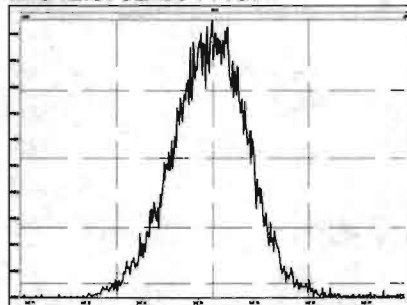
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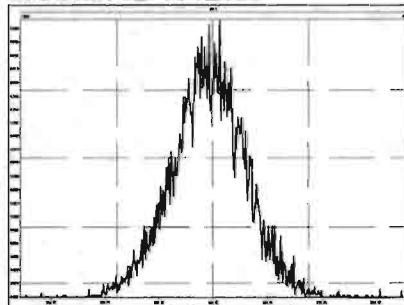
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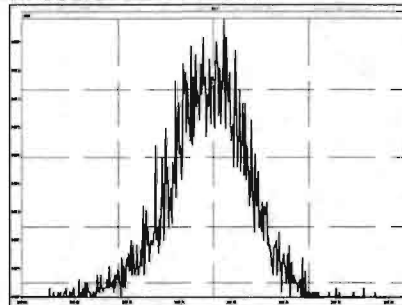
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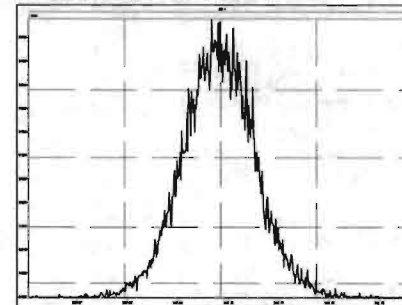
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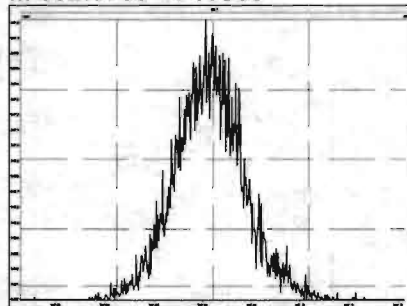
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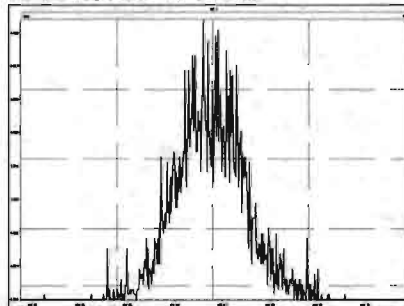
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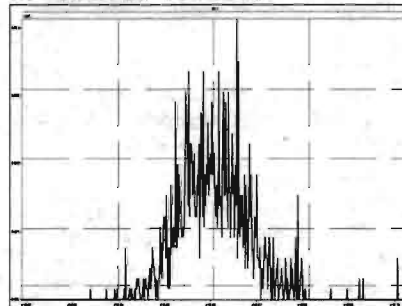
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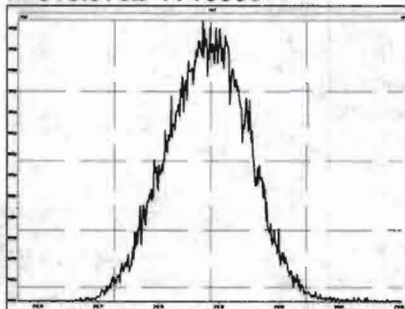
Experiment Calibration Report

MassLynx 4.1 SCN815

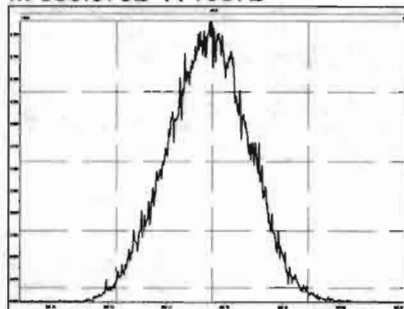
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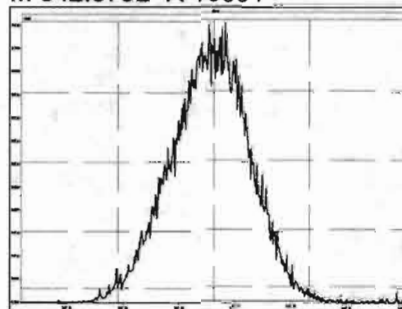
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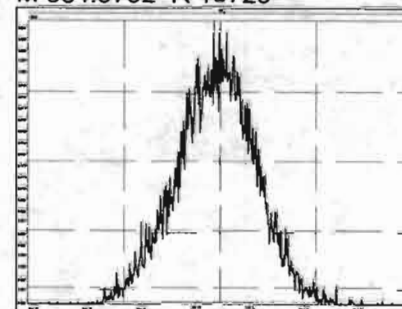
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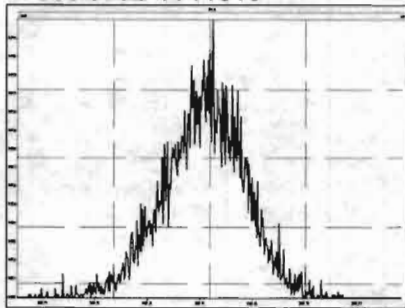
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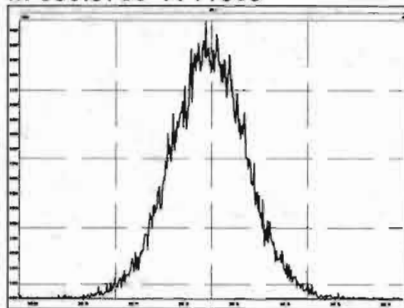
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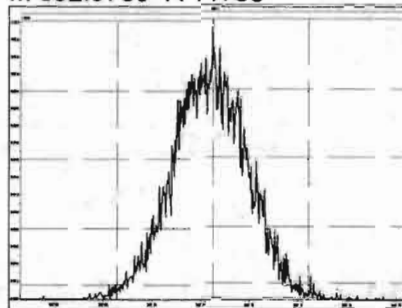
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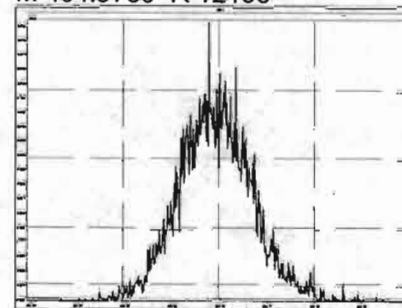
M 380.9760 R 11009



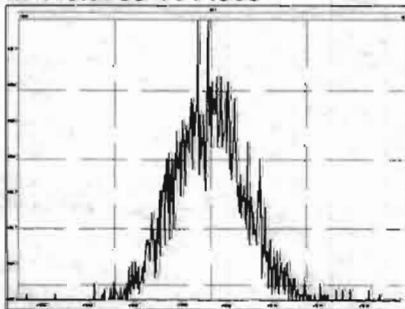
M 392.9760 R 11735



M 404.9760 R 12196



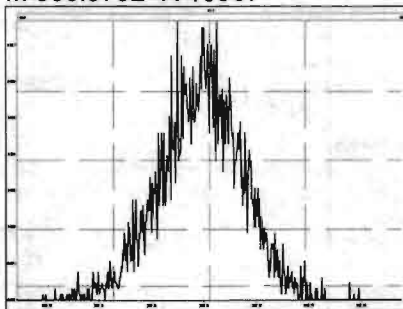
M 416.9760 R 14968



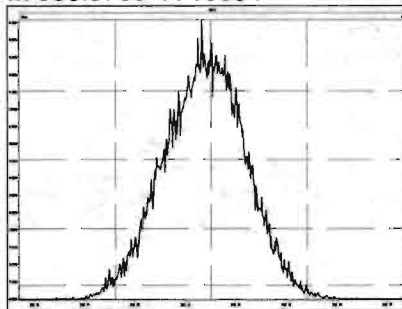
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, May 29, 2020 07:19:38 Pacific Daylight Time

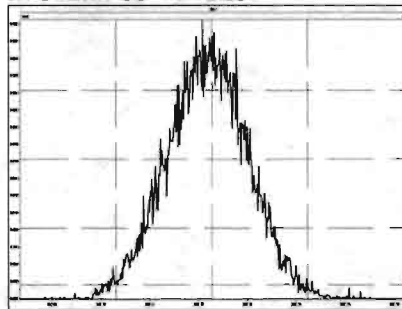
M 366.9792 R 10967



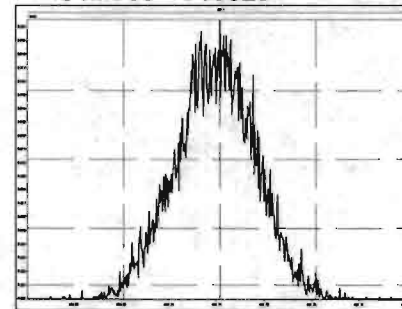
M 380.9760 R 10684



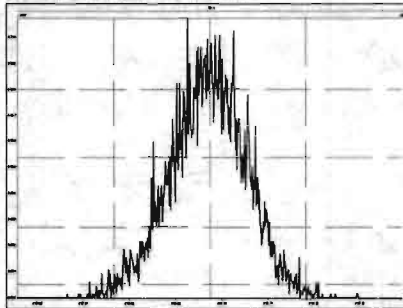
M 392.9760 R 10207



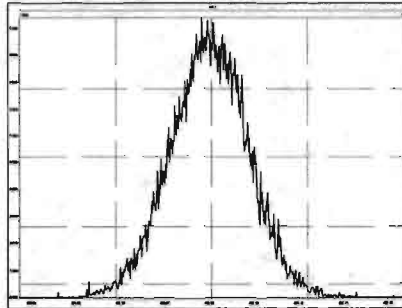
M 404.9760 R 10823



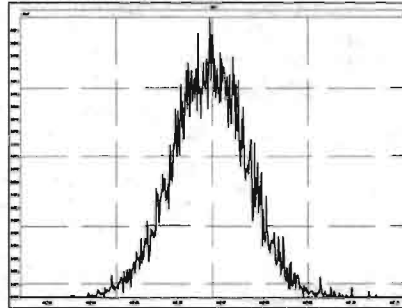
M 416.9760 R 11160



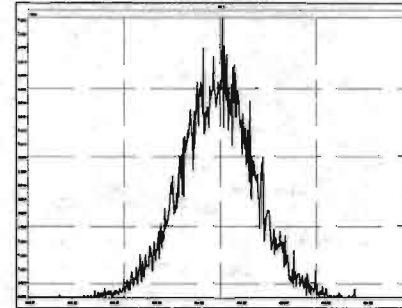
M 430.9728 R 11208



M 442.9728 R 12195



M 454.9728 R 10963



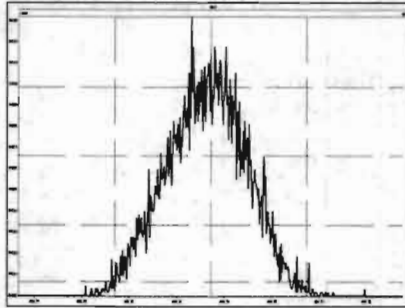
Experiment Calibration Report

MassLynx 4.1 SCN815

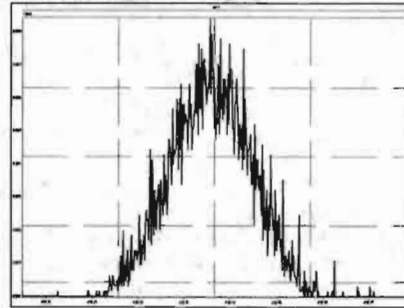
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, May 29, 2020 07:19:53 Pacific Daylight Time

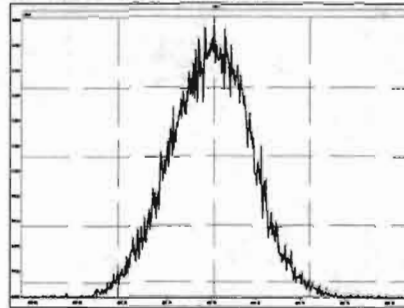
M 404.9760 R 10963



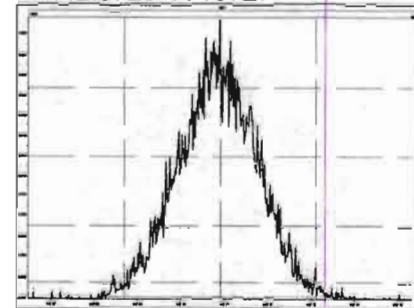
M 416.9760 R 10593



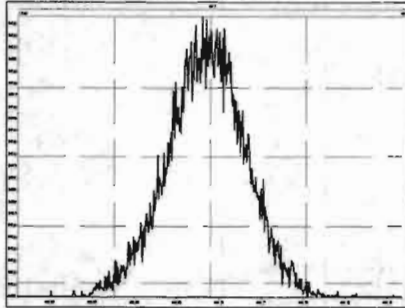
M 430.9728 R 10372



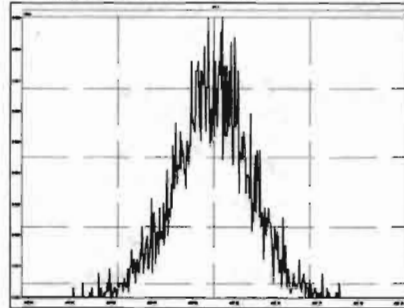
M 442.9728 R 10727



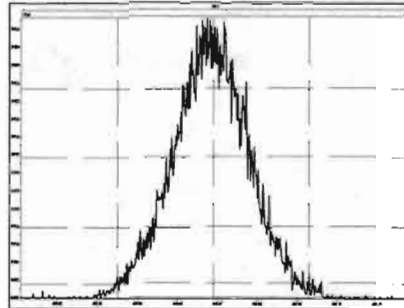
M 454.9728 R 11792



M 466.9728 R 12628



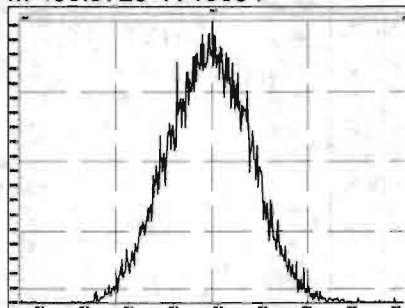
M 480.9696 R 11111



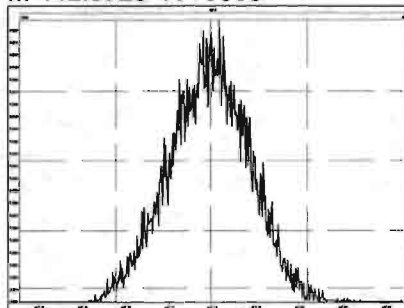
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, May 29, 2020 07:20:18 Pacific Daylight Time

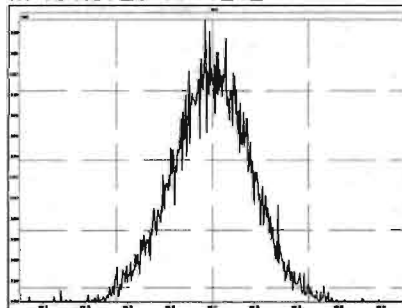
M 430.9728 R 10684



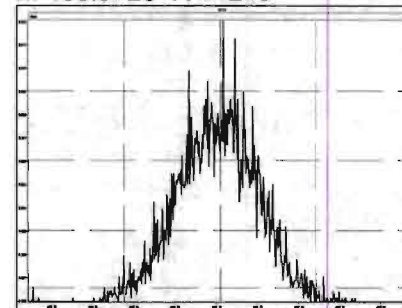
M 442.9728 R 10868



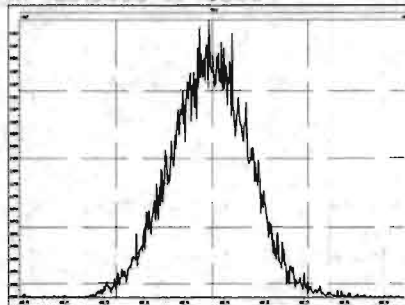
M 454.9728 R 11212



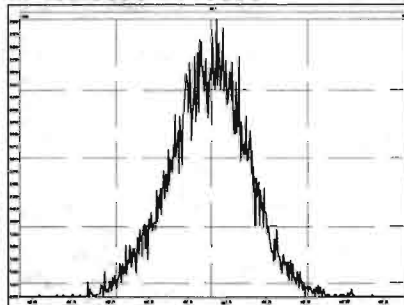
M 466.9728 R 11210



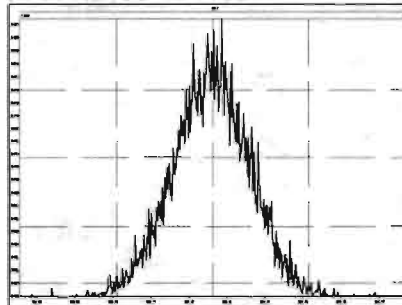
M 480.9696 R 10963



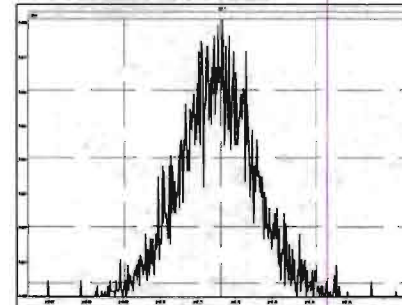
M 492.9696 R 10593



M 504.9696 R 11681



M 516.9697 R 11905



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 01 02/12/2020

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

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

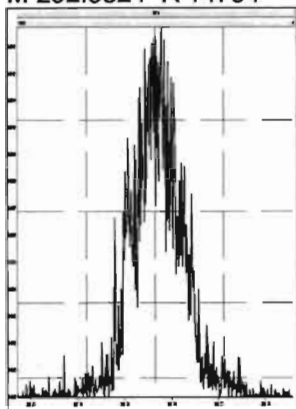
Last Altered: Wednesday, February 12, 2020 10:45:15 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:45:35 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Callbration: C:\MassLynx\Default.PRO\CurveDB\db-225_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 14:52:18

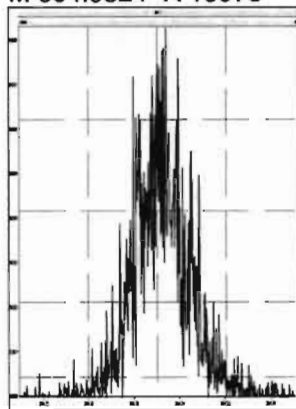
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
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

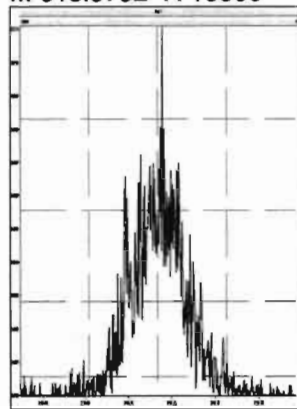
M 292.9824 R 14754



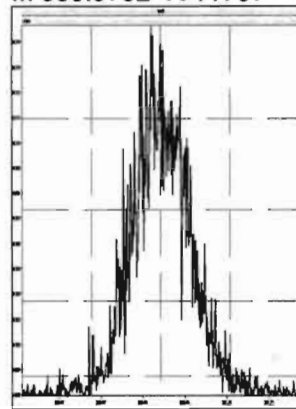
M 304.9824 R 15978



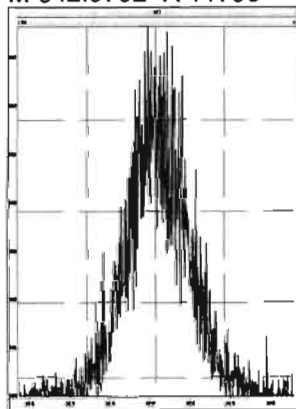
M 318.9792 R 15503



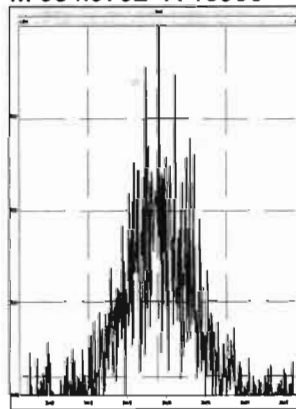
M 330.9792 R 11737



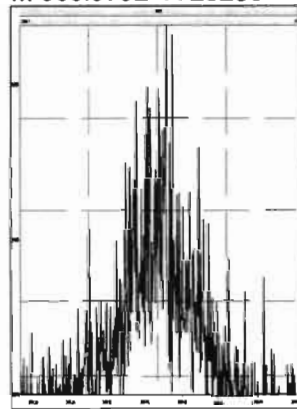
M 342.9792 R 11796



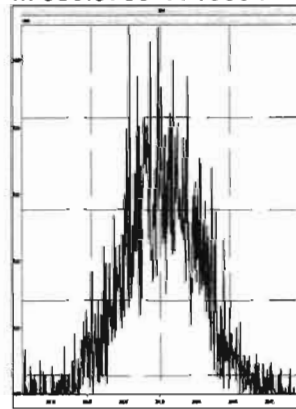
M 354.9792 R 15966

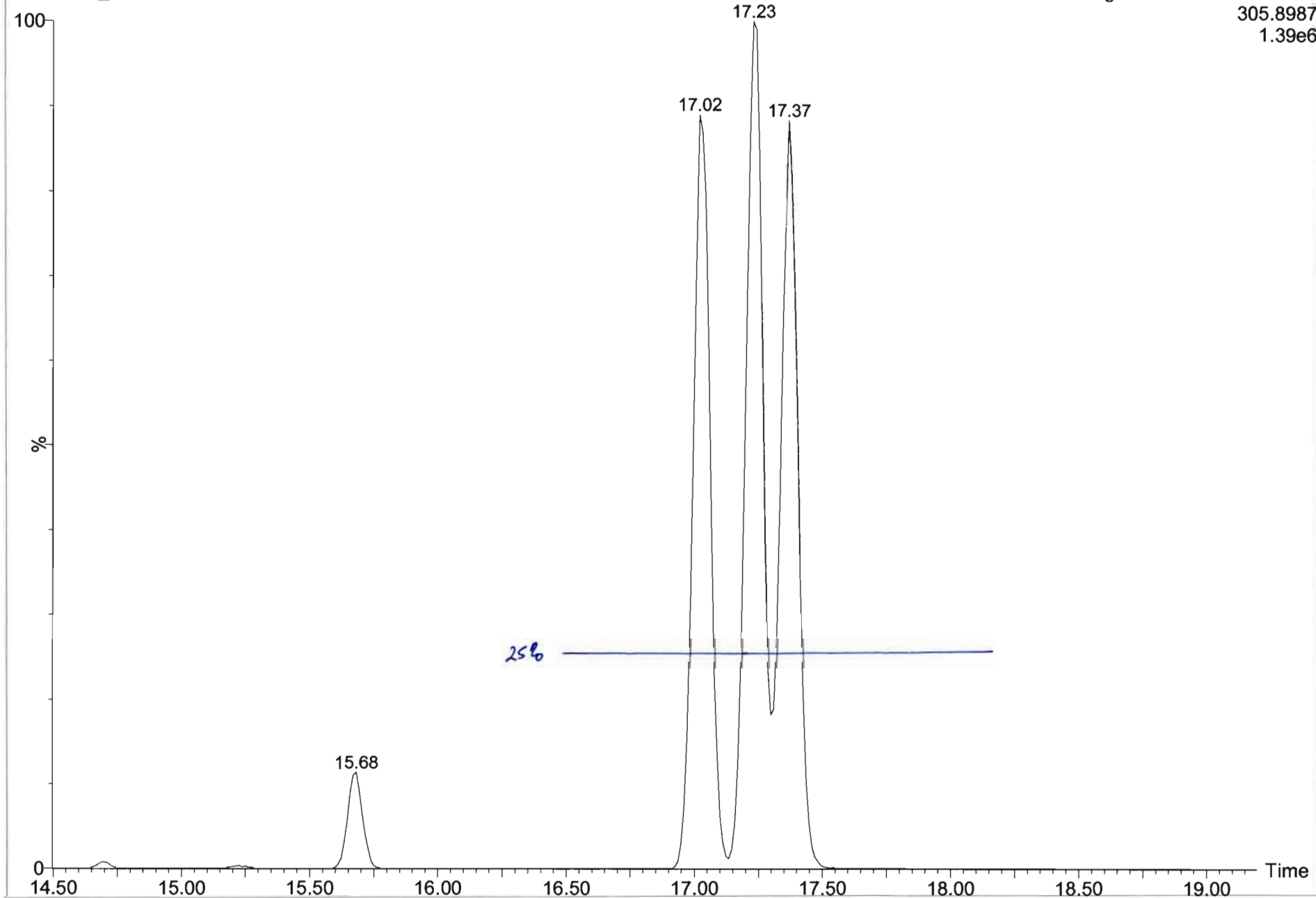


M 366.9792 R 28256



M 380.9760 R 13094





Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

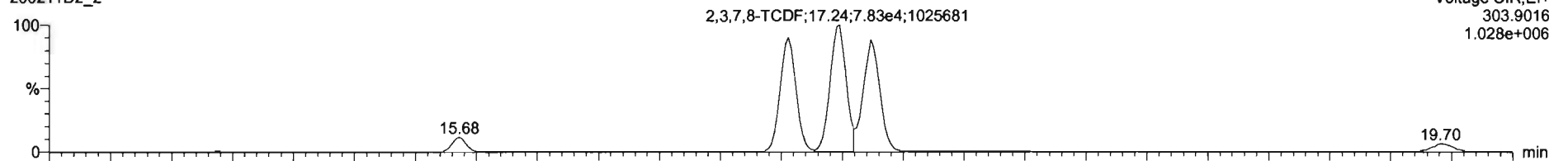
Last Altered: Wednesday, February 12, 2020 10:13:49 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:15:34 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: C:\MassLynx\Default.PRO\CurveDB\db-225_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 14:52:18

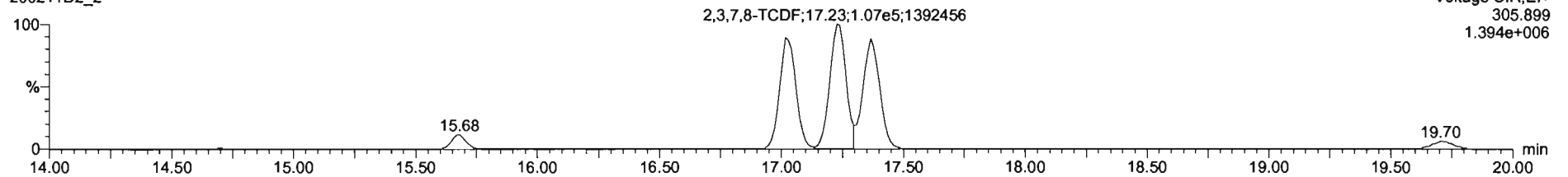
Name: 200211D2_2, Date: 11-Feb-2020, Time: 20:28:53, ID: CP200211D2-1 DB-225 CPSM, Description: DB-225 CPSM

2,3,7,8-TCDF

200211D2_2

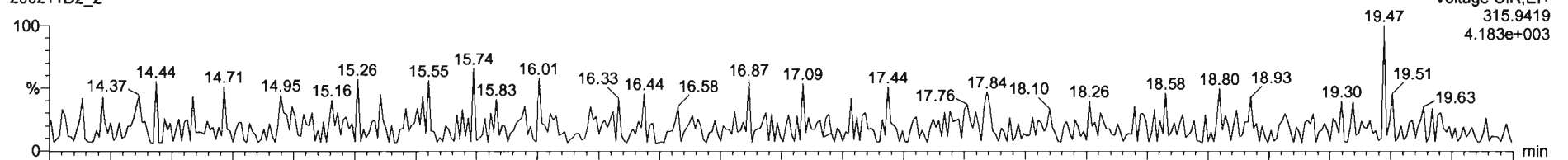


200211D2_2

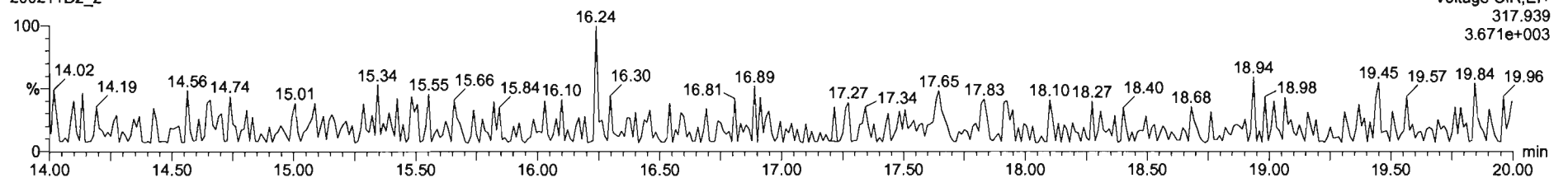


13C-2,3,7,8-TCDF

200211D2_2



200211D2_2

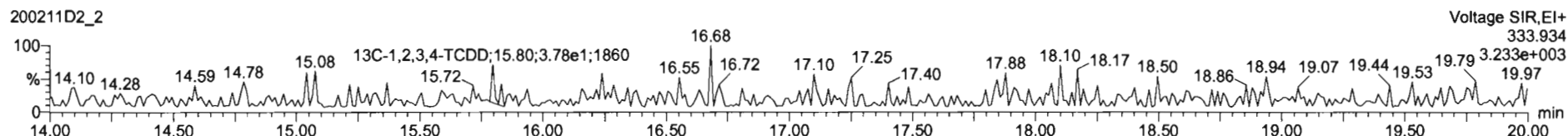
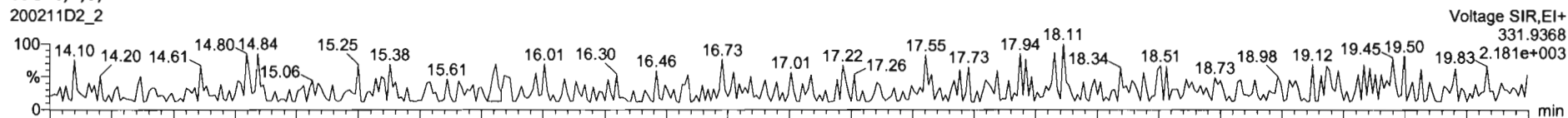


Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

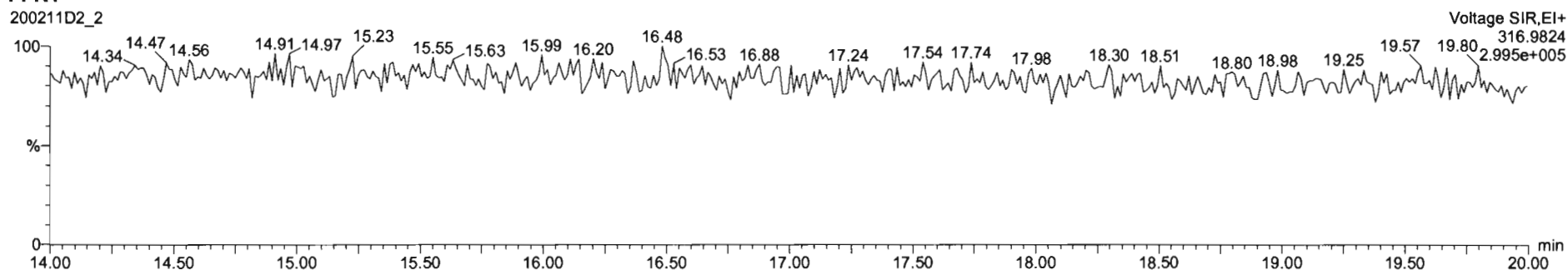
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Printed: Wednesday, February 12, 2020 10:15:34 Pacific Standard Time

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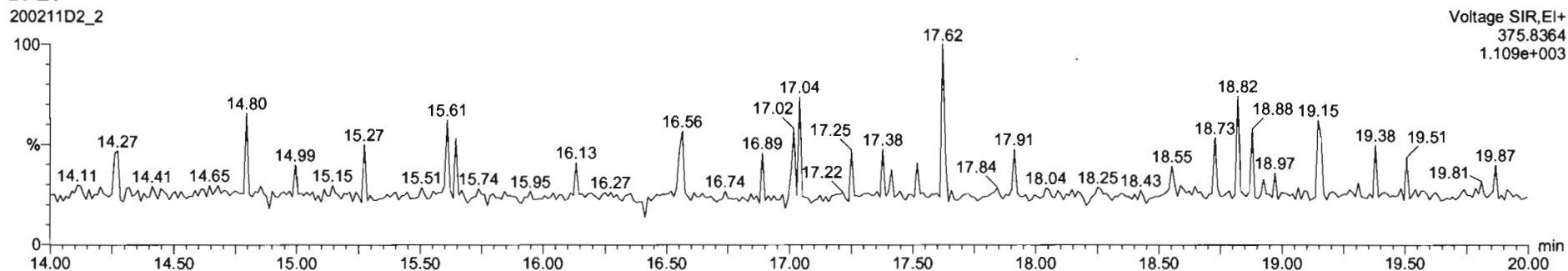
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

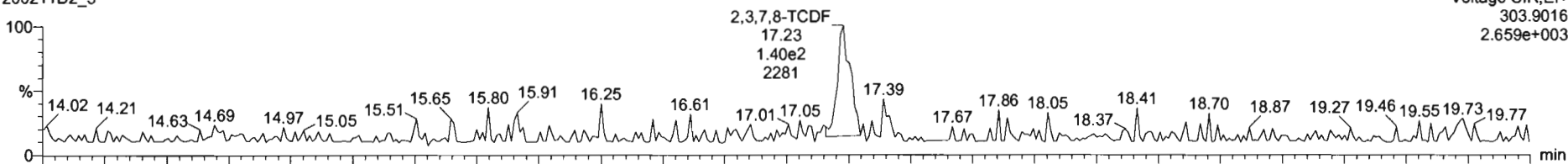
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

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

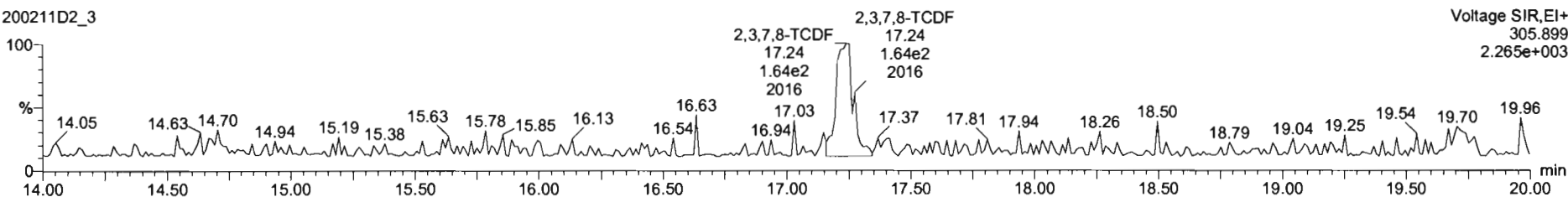
Name: 200211D2_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDF

200211D2_3

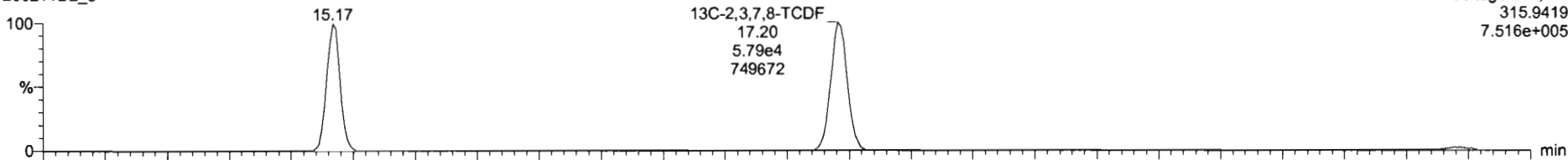


200211D2_3

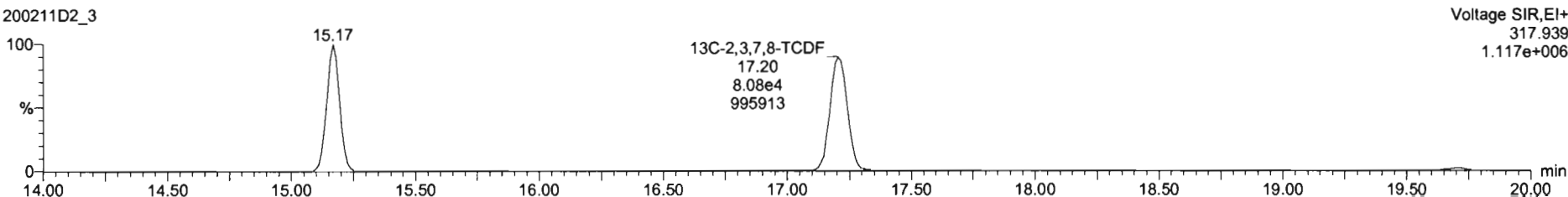


13C-2,3,7,8-TCDF

200211D2_3



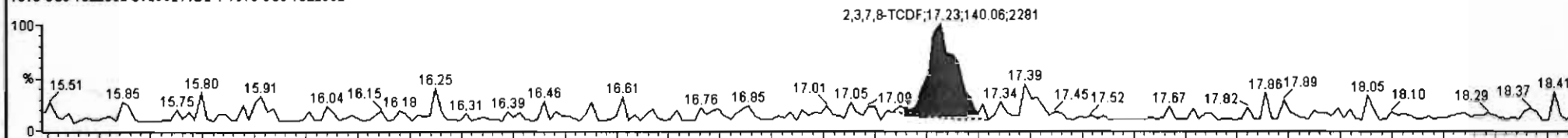
200211D2_3



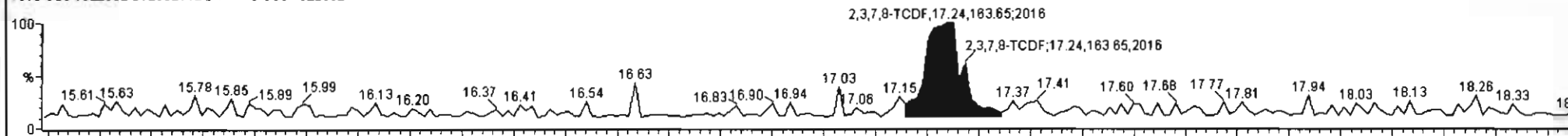
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.98	1.000	17.23	1.001	0.223	89.2	0.0831	0.223
2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	1.134	113	113	0.342	
3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	1.000	100	100	0.371	
4 13C-1,2,3,4-TCDF	1.04e5	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							

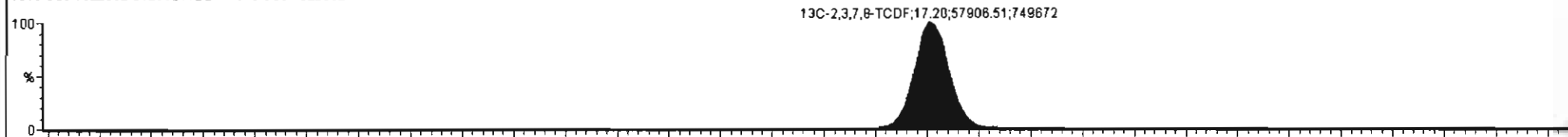
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



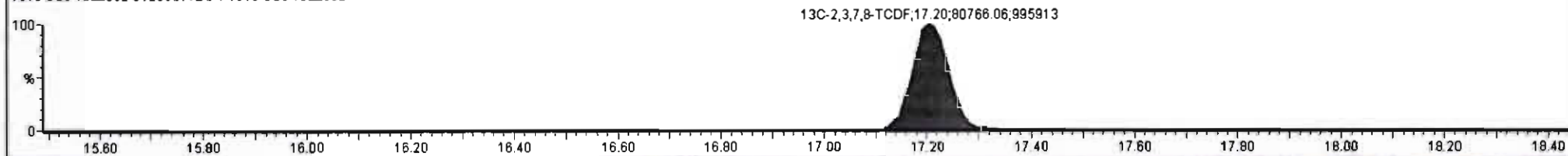
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



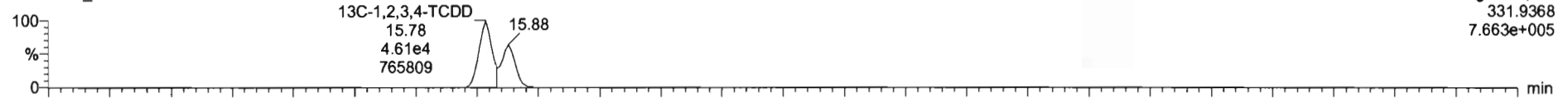
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

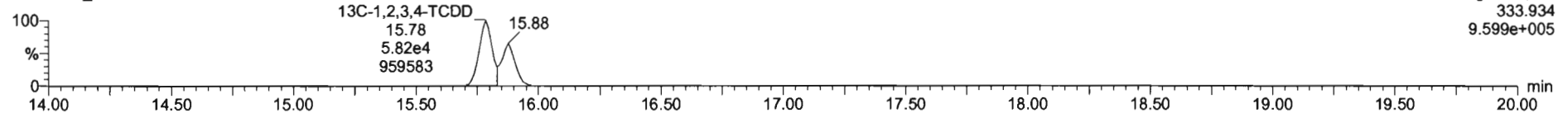
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13C-1,2,3,4-TCDD

200211D2_3

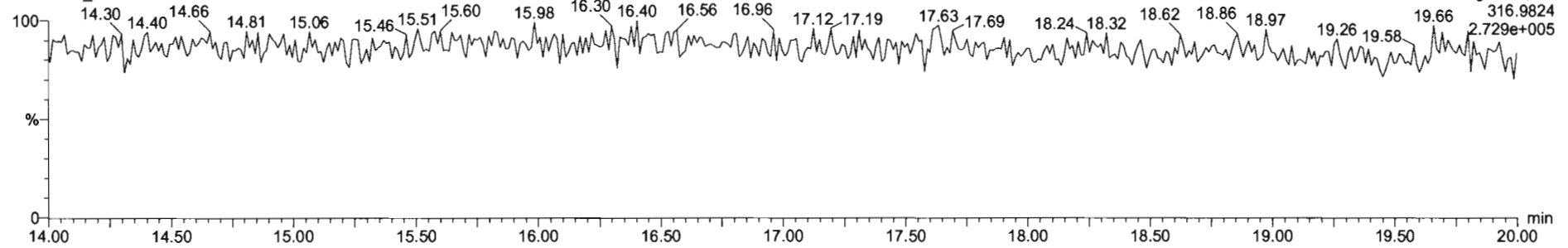


200211D2_3



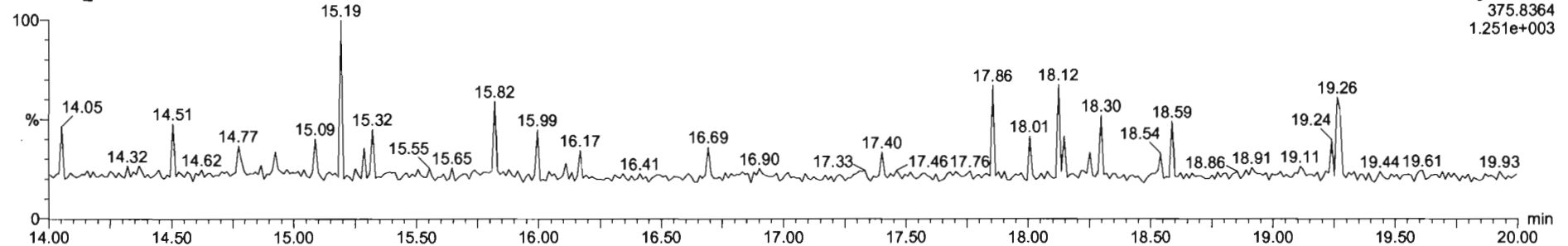
PFK1

200211D2_3



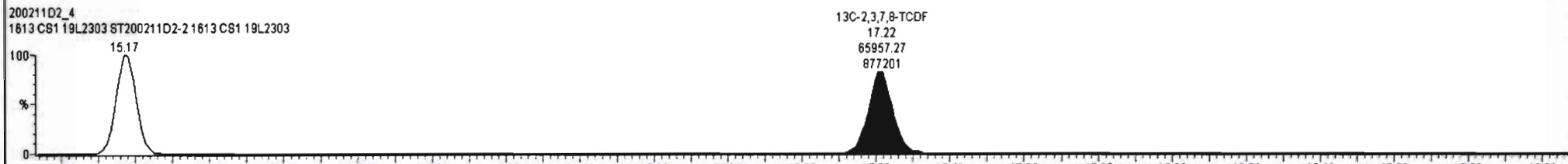
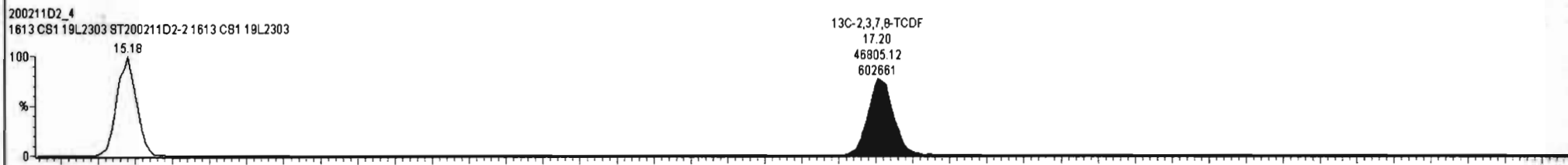
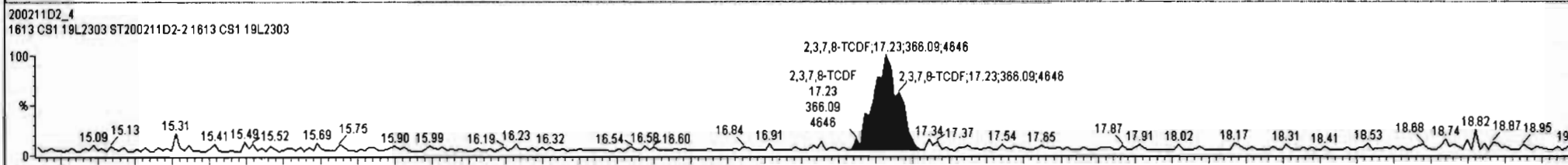
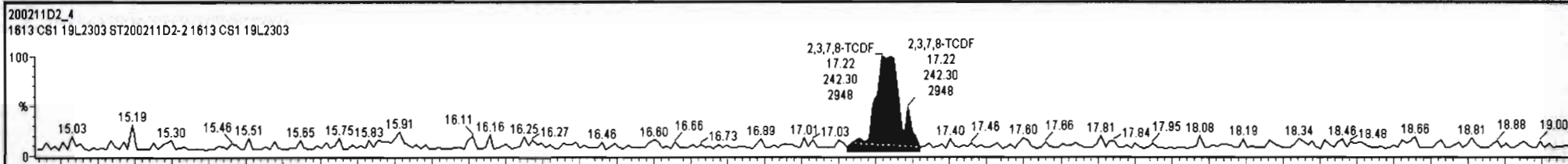
DPE1

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								



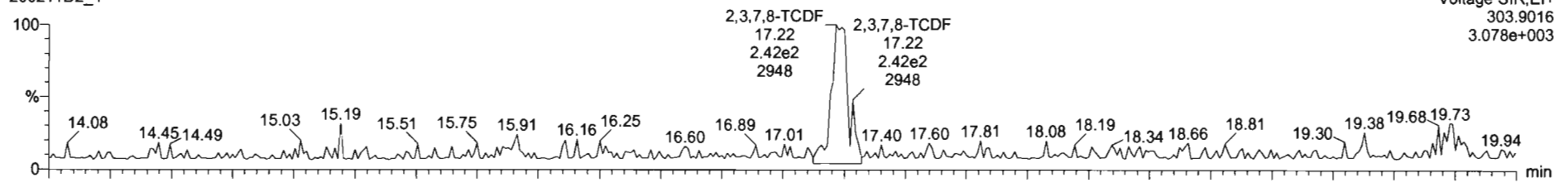
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

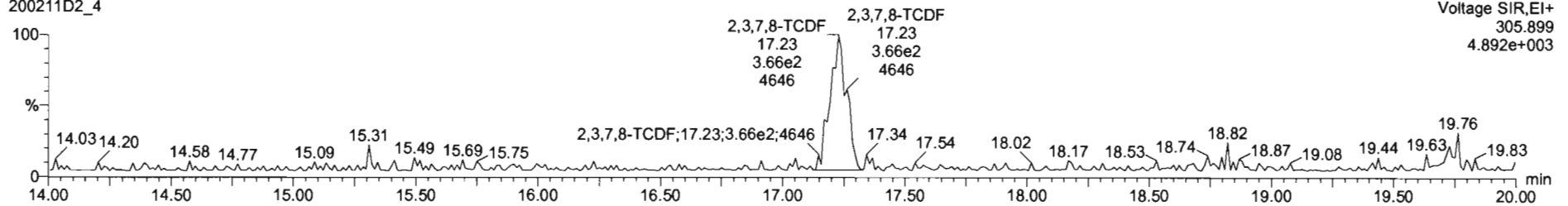
Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

2,3,7,8-TCDF

200211D2_4

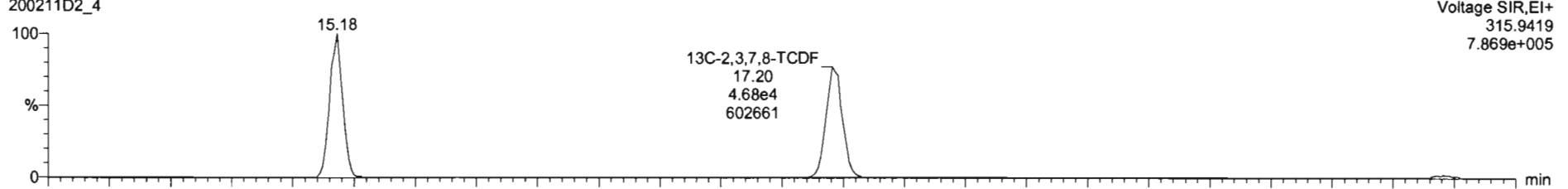


200211D2_4

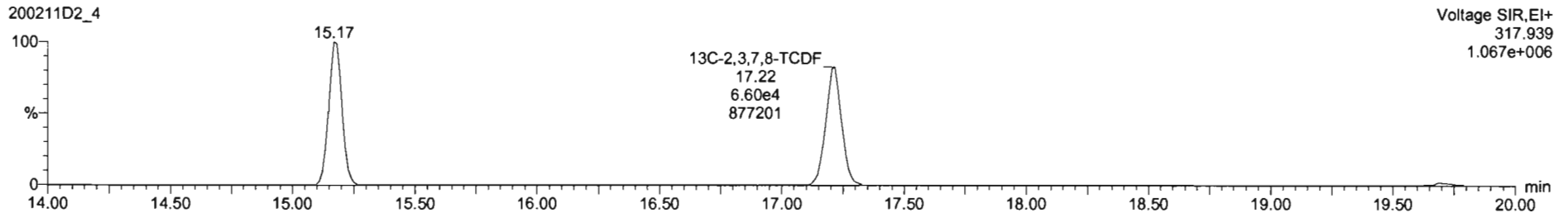


13C-2,3,7,8-TCDF

200211D2_4



200211D2_4



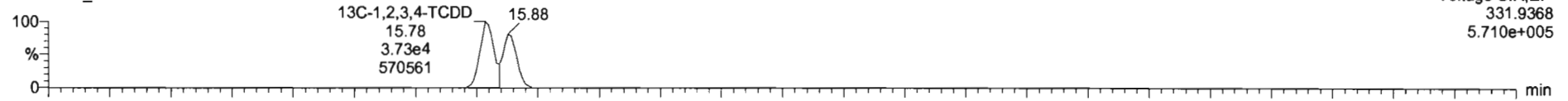
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

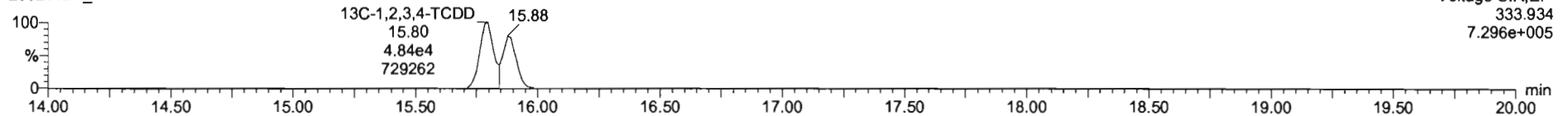
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13C-1,2,3,4-TCDD

200211D2_4

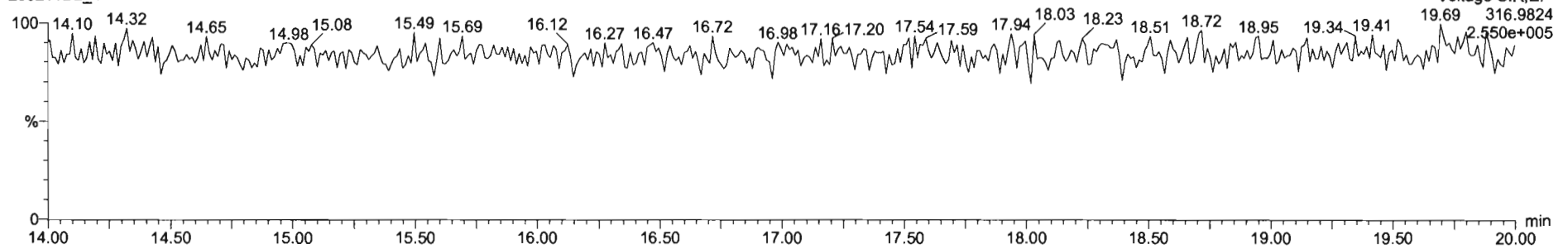


200211D2_4



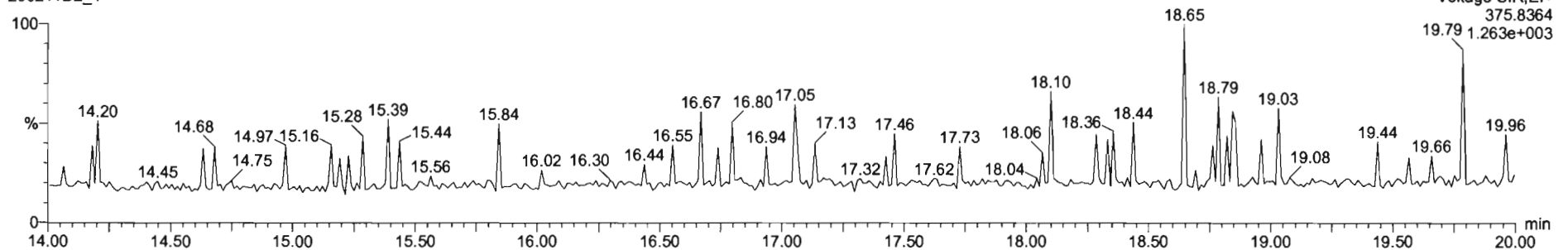
PFK1

200211D2_4



DPE1

200211D2_4



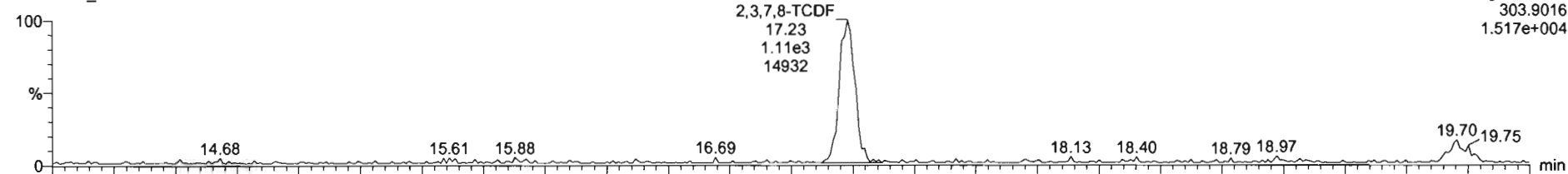
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

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_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

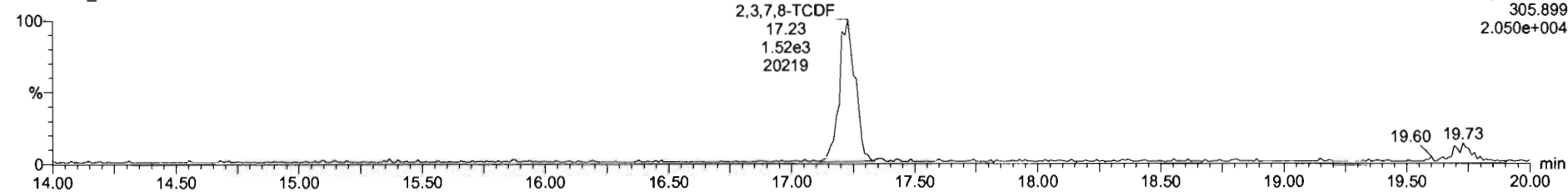
2,3,7,8-TCDF

200211D2_5



Voltage SIR, EI+
303.9016
1.517e+004

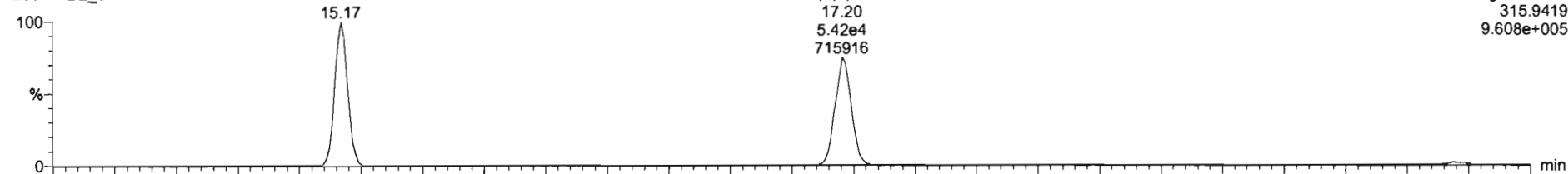
200211D2_5



Voltage SIR, EI+
305.899
2.050e+004

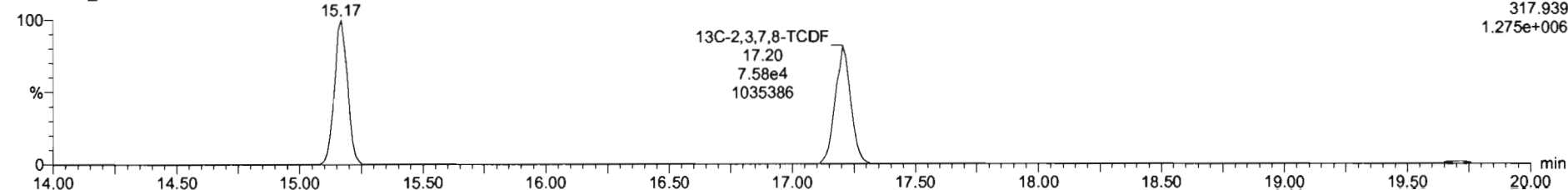
13C-2,3,7,8-TCDF

200211D2_5



Voltage SIR, EI+
315.9419
9.608e+005

200211D2_5



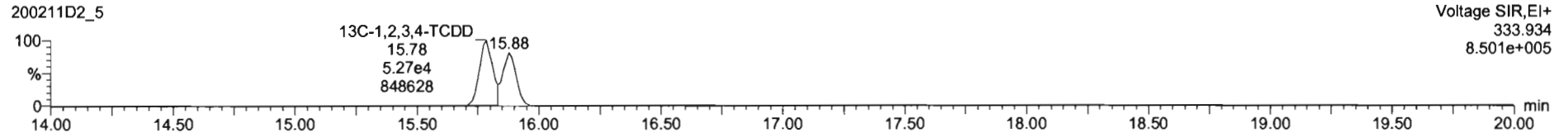
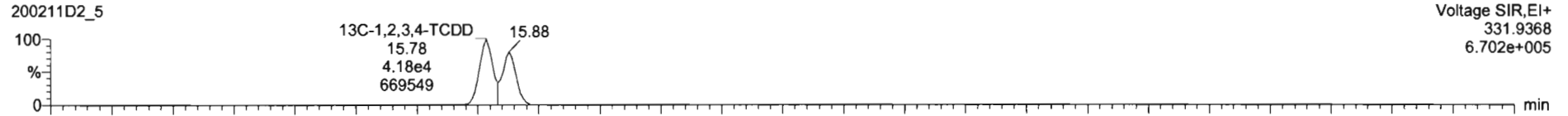
Voltage SIR, EI+
317.939
1.275e+006

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

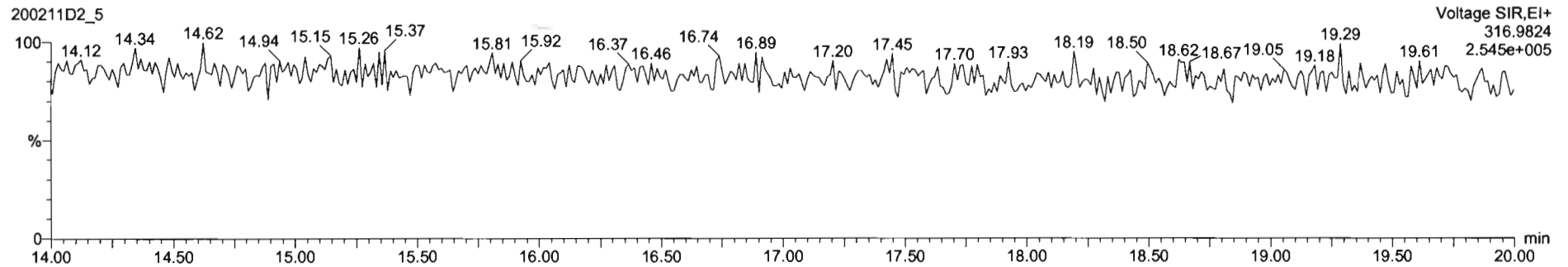
Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

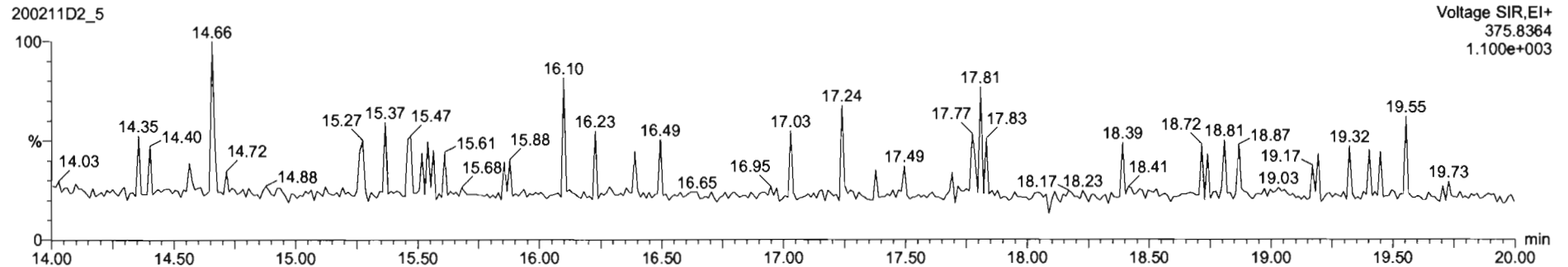
13C-1,2,3,4-TCDD



PFK1



DPE1



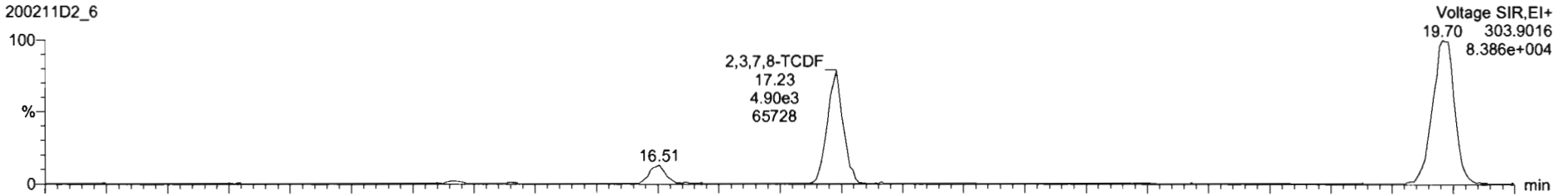
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

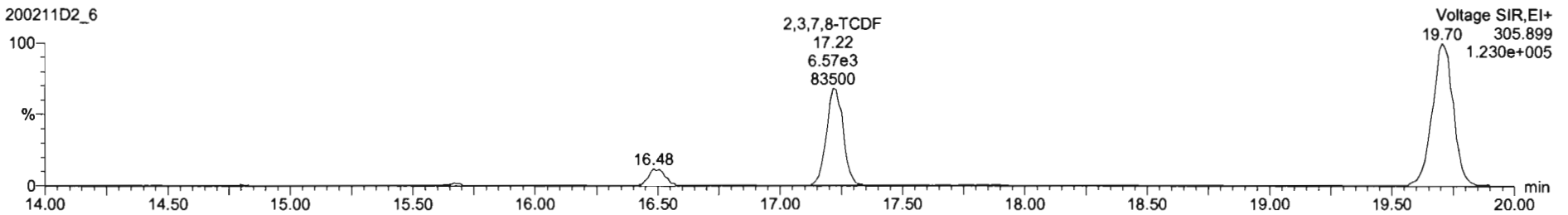
Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200211D2_6

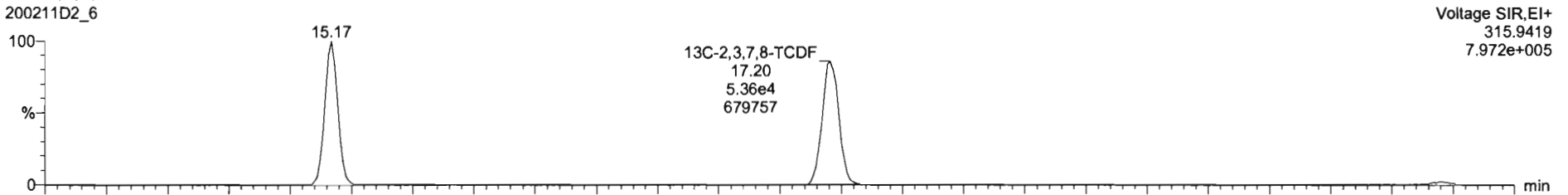


200211D2_6

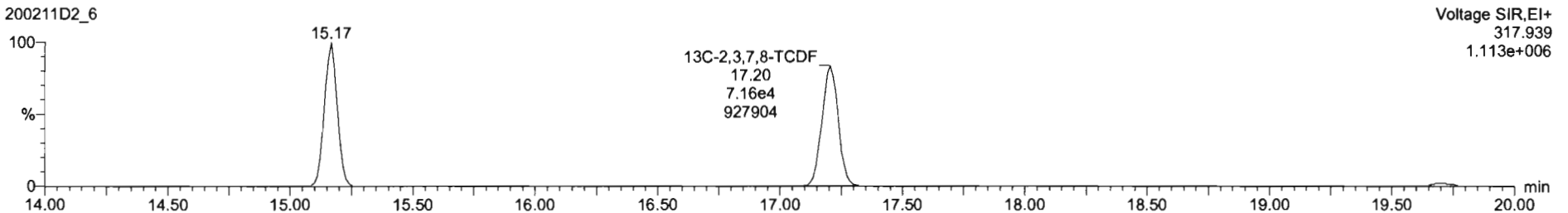


13C-2,3,7,8-TCDF

200211D2_6



200211D2_6



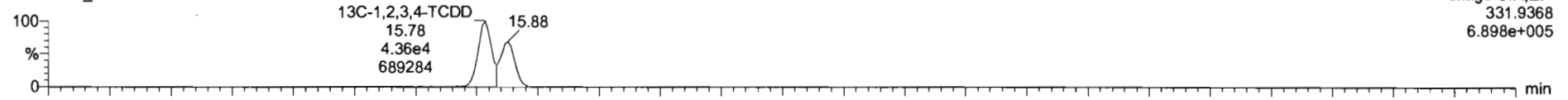
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

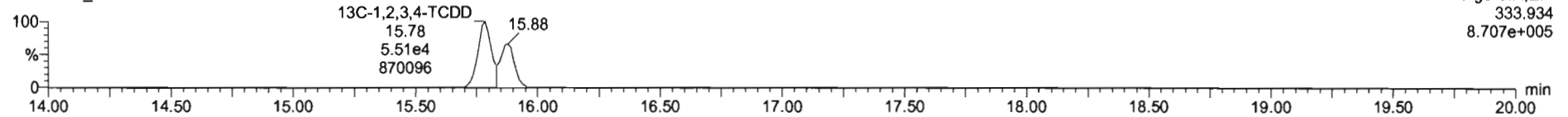
Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200211D2_6

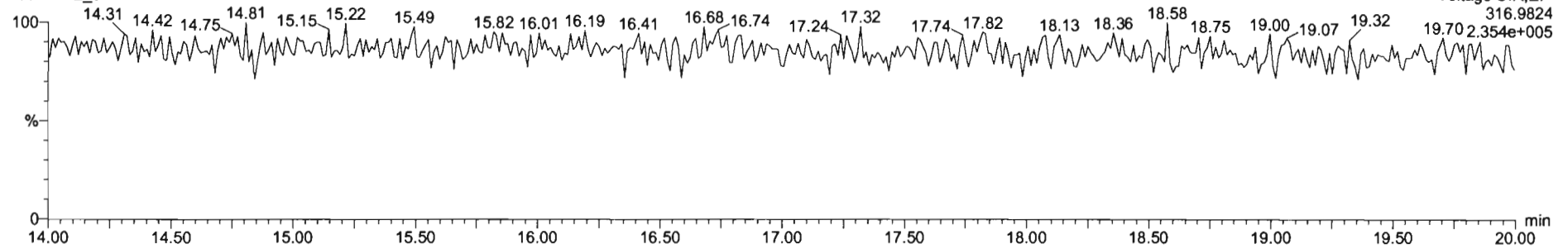


200211D2_6



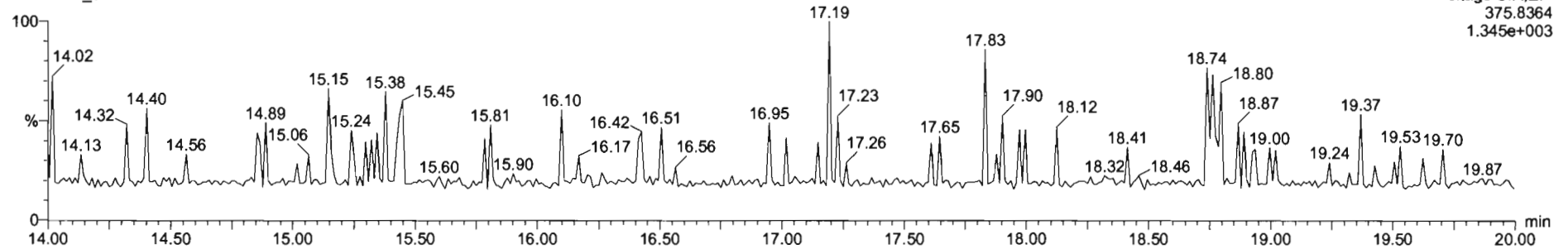
PFK1

200211D2_6



DPE1

200211D2_6



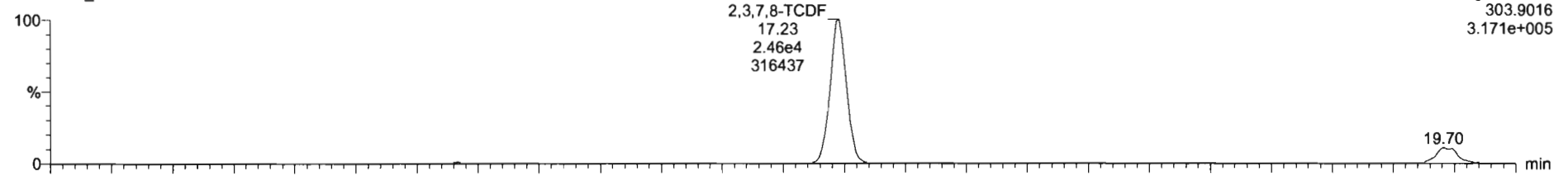
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

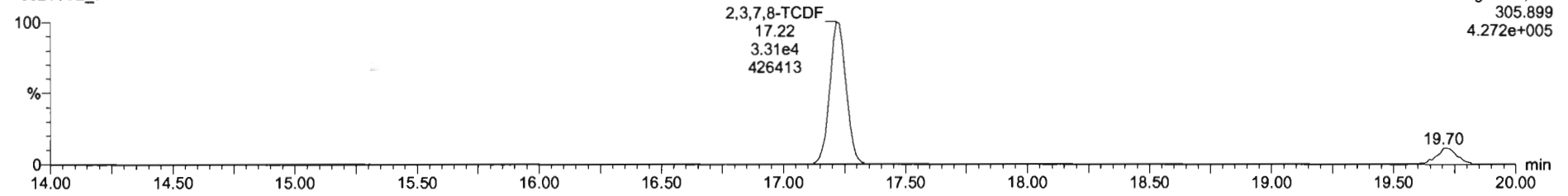
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2,3,7,8-TCDF

200211D2_7

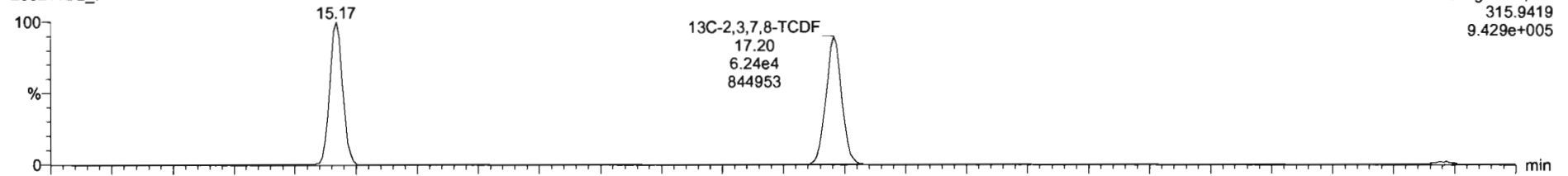


200211D2_7

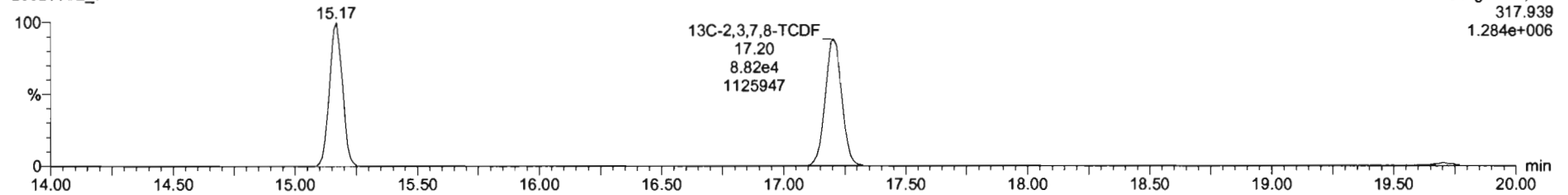


13C-2,3,7,8-TCDF

200211D2_7



200211D2_7



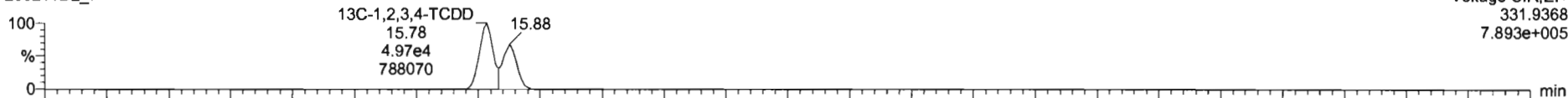
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

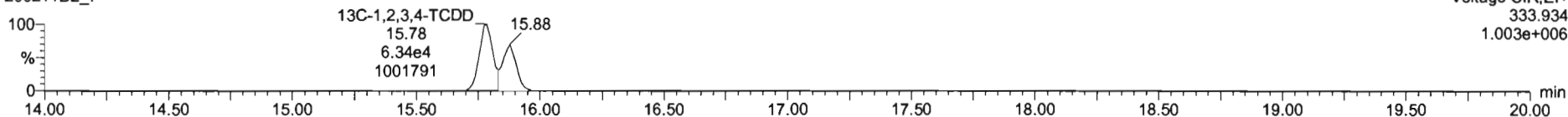
Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200211D2_7

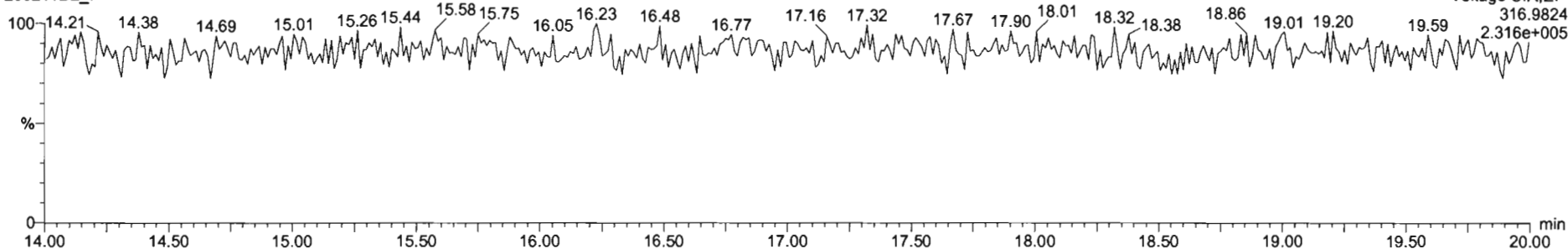


200211D2_7



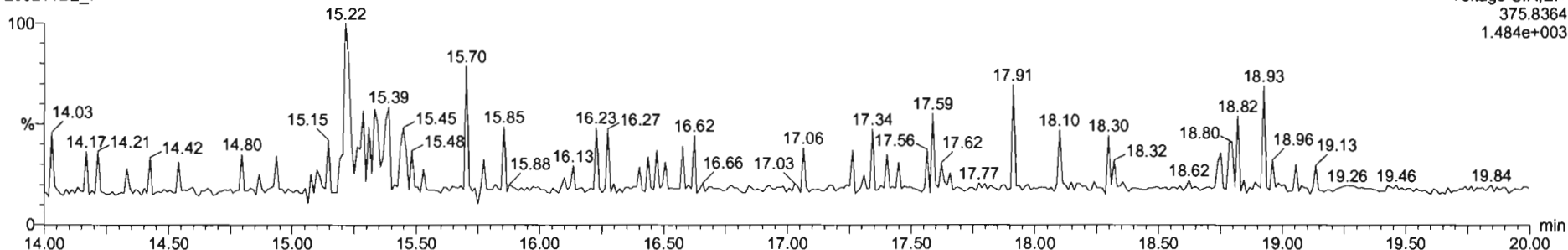
PFK1

200211D2_7



DPE1

200211D2_7



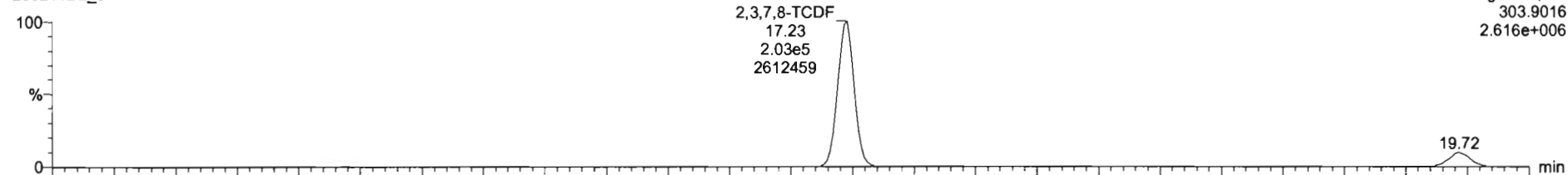
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

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_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

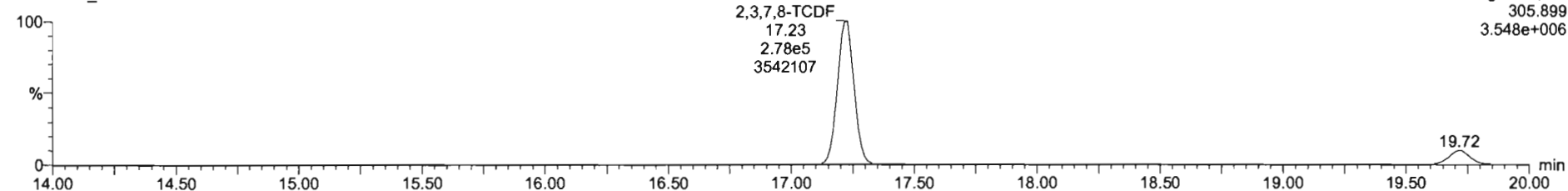
2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
303.9016
2.616e+006

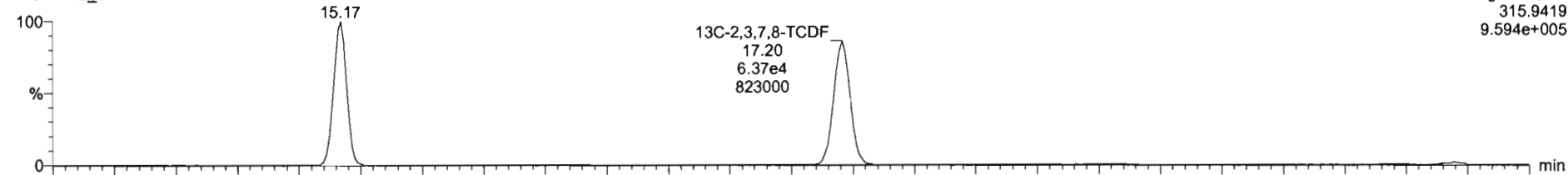
200211D2_8



Voltage SIR,EI+
305.899
3.548e+006

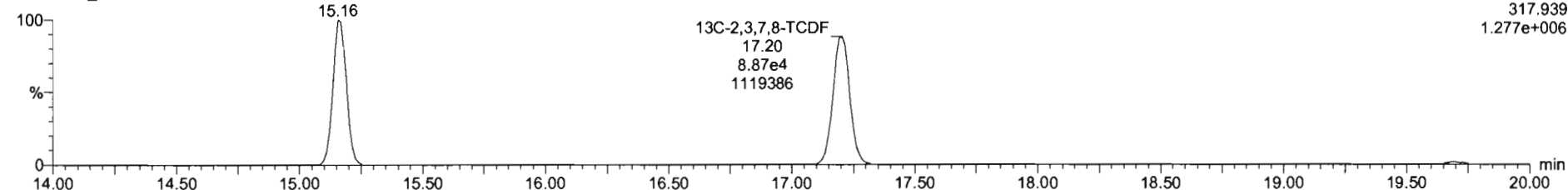
13C-2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
315.9419
9.594e+005

200211D2_8



Voltage SIR,EI+
317.939
1.277e+006

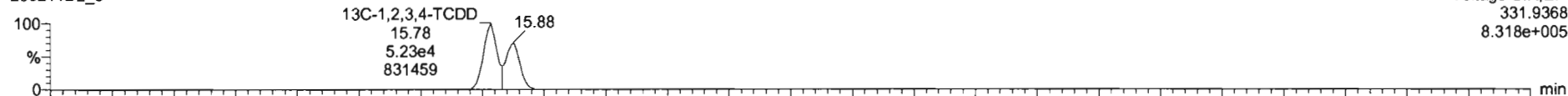
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

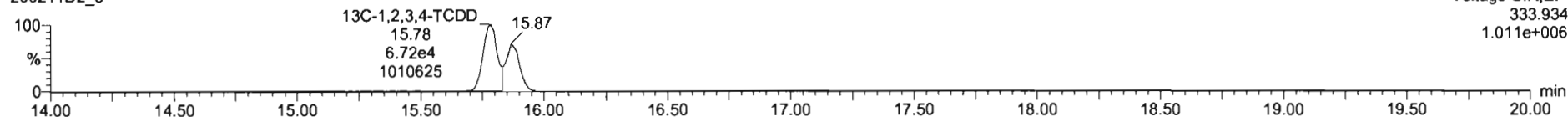
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13C-1,2,3,4-TCDD

200211D2_8

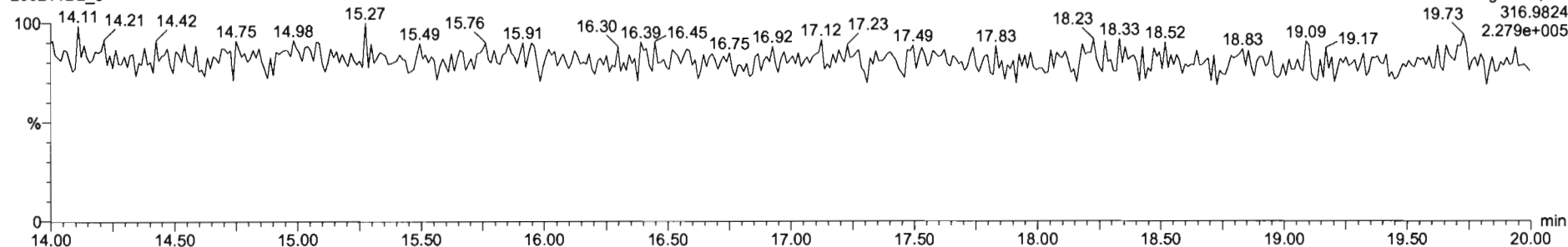


200211D2_8



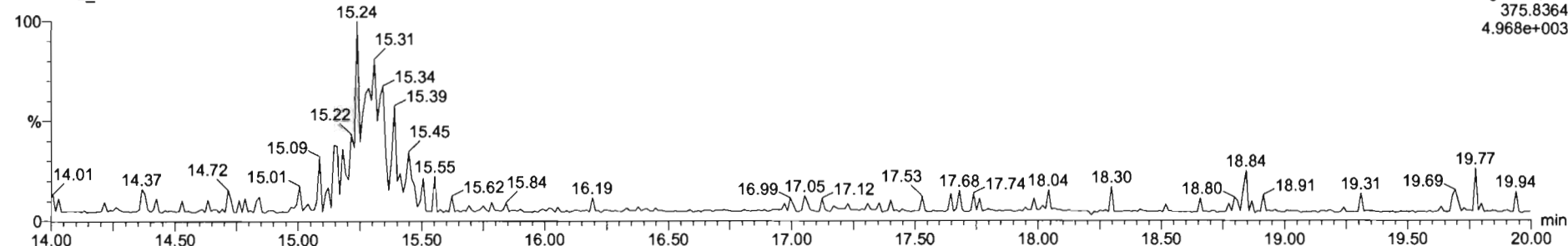
PFK1

200211D2_8

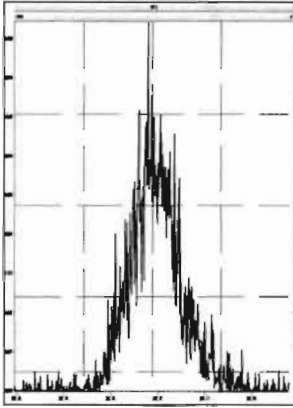


DPE1

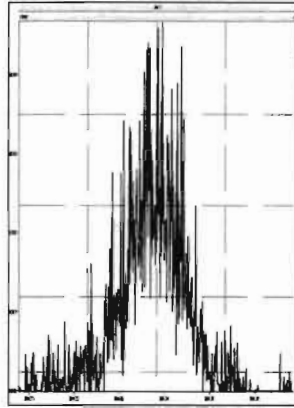
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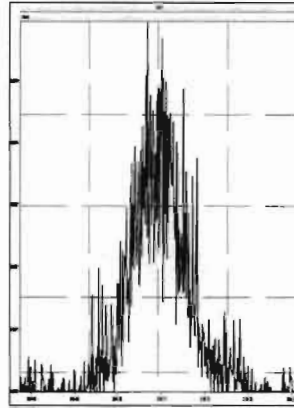
M 292.9824 R 13493



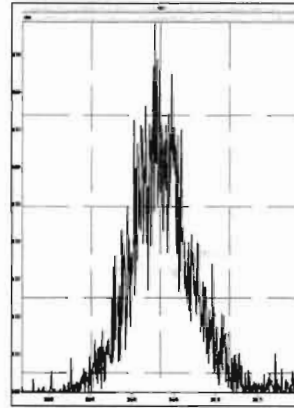
M 304.9824 R 14983



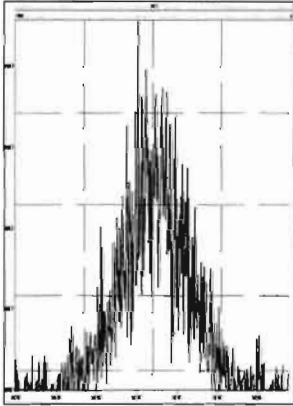
M 318.9792 R 15196



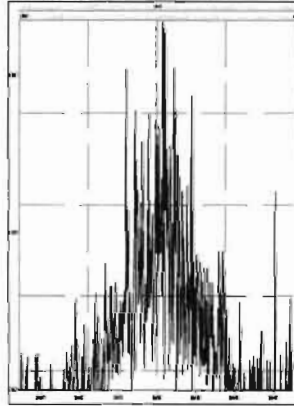
M 330.9792 R 11772



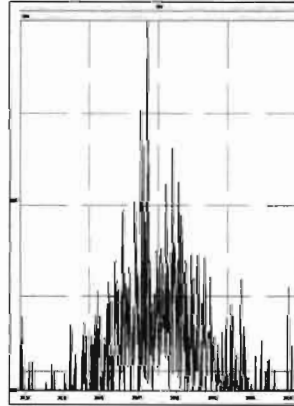
M 342.9792 R 13721



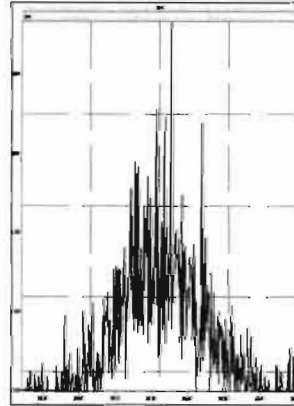
M 354.9792 R 24553



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

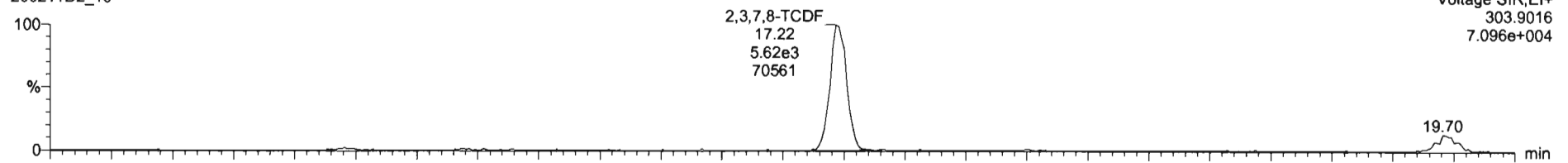
Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

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

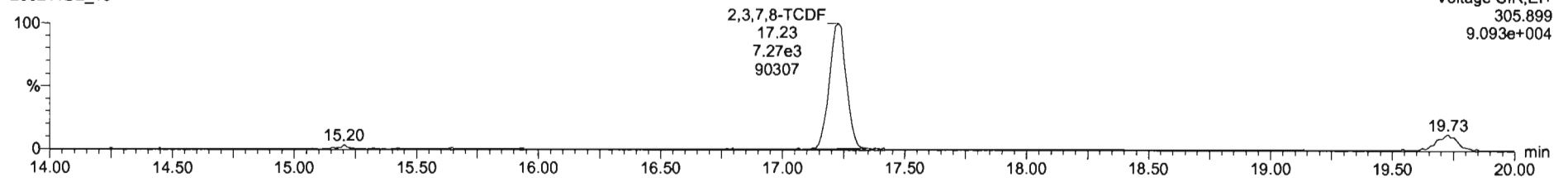
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDF

200211D2_10

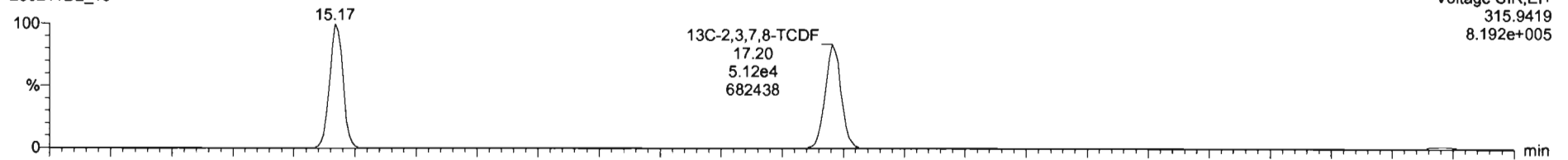


200211D2_10

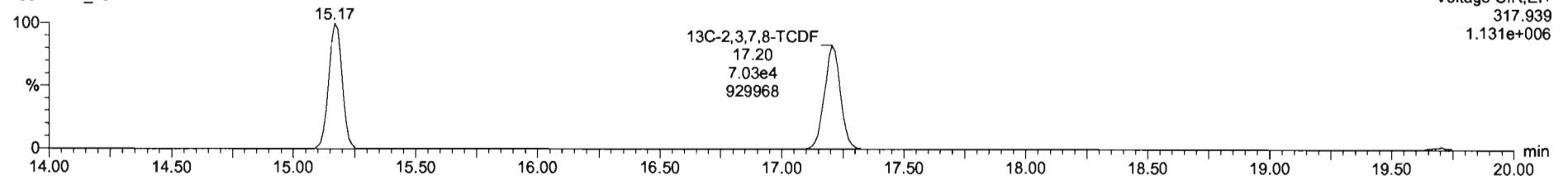


13C-2,3,7,8-TCDF

200211D2_10



200211D2_10



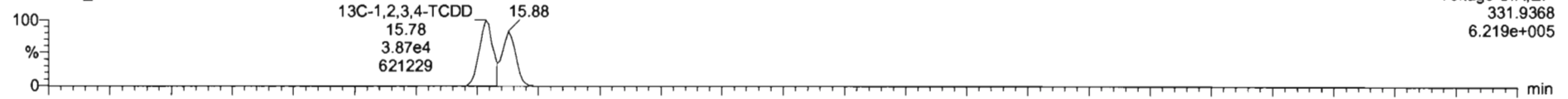
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

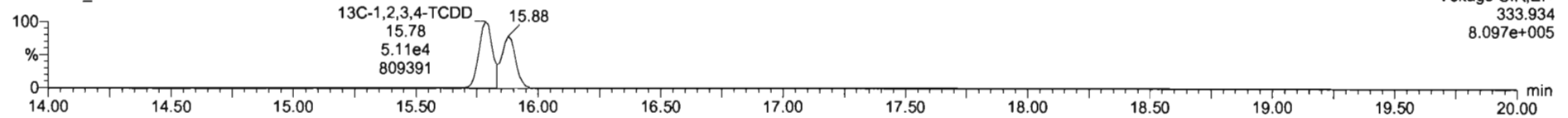
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13C-1,2,3,4-TCDD

200211D2_10

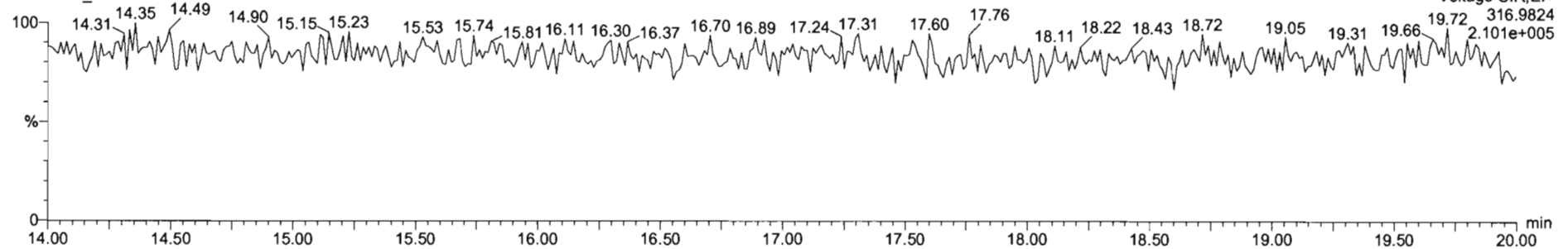


200211D2_10



PFK1

200211D2_10



DPE1

200211D2_10

