



May 22, 2020

Vista Work Order No. 2000953

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

Dear Ms. Peterson,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on April 28, 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. 2000953

Case Narrative

Sample Condition on Receipt:

Twelve 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. Eight samples were included in this Work Order and the remaining samples listed on the Chain of Custody were assigned to Vista Work Order No. 2000955. The results for the analyses of "PDI-159SC-A-00-01-200423" by EPA method 1668 was assigned to Vista Work Order No. 2000961.

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 each preparation batch. No analytes were detected above 1/2 the quantitation limits in the Method Blanks. The OPR recoveries were within the method acceptance criteria.

The labeled standard recovery outside the method acceptance criteria is listed in the table below:

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
2000953-03	PDI-165SC-A-02-03-200426	EPA Method 1613B	13C-OCDD	H	10.4

H = Recovery was outside laboratory acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2000953-01	PDI-165SC-A-00-01-200426	26-Apr-20 11:49	28-Apr-20 09:04	Amber Glass, 120 mL
2000953-02	PDI-165SC-A-01-02-200426	26-Apr-20 11:49	28-Apr-20 09:04	Amber Glass, 120 mL
2000953-03	PDI-165SC-A-02-03-200426	26-Apr-20 11:49	28-Apr-20 09:04	Amber Glass, 120 mL
2000953-04	PDI-165SC-A-03-04-200426	26-Apr-20 11:49	28-Apr-20 09:04	Amber Glass, 120 mL
2000953-05	PDI-165SC-A-04-05-200426	26-Apr-20 11:49	28-Apr-20 09:04	Amber Glass, 120 mL
2000953-06	PDI-165SC-A-05-06-200426	26-Apr-20 11:49	28-Apr-20 09:04	Amber Glass, 120 mL
2000953-07	PDI-165SC-A-06-07-200426	26-Apr-20 11:49	28-Apr-20 09:04	Amber Glass, 120 mL
2000953-08	PDI-165SC-A-07-08-200426	26-Apr-20 11:49	28-Apr-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: B0D0323 Date Extracted: 29-Apr-2020 11:28		Lab Sample: B0D0323-BLK1 Date Analyzed: 06-May-20 15:56 Column: ZB-5MS					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0880			IS 13C-2,3,7,8-TCDD	81.4	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0768			13C-1,2,3,7,8-PeCDD	90.7	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.0500			13C-1,2,3,4,7,8-HxCDD	99.1	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.0543			13C-1,2,3,6,7,8-HxCDD	91.9	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.0654			13C-1,2,3,7,8,9-HxCDD	91.7	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.0952			13C-1,2,3,4,6,7,8-HpCDD	81.7	23 - 140		
OCDD	ND	0.117			13C-OCDD	64.7	17 - 157		
2,3,7,8-TCDF	ND	0.0683			13C-2,3,7,8-TCDF	75.6	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0523			13C-1,2,3,7,8-PeCDF	91.0	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0479			13C-2,3,4,7,8-PeCDF	88.5	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0459			13C-1,2,3,4,7,8-HxCDF	94.8	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0426			13C-1,2,3,6,7,8-HxCDF	101	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0469			13C-2,3,4,6,7,8-HxCDF	95.7	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.0783			13C-1,2,3,7,8,9-HxCDF	86.3	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.0529			13C-1,2,3,4,6,7,8-HpCDF	91.9	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.0823			13C-1,2,3,4,7,8,9-HpCDF	75.7	26 - 138		
OCDF	ND	0.107			13C-OCDF	62.2	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	80.7	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.00		
TOTALS									
Total TCDD	ND	0.0880							
Total PeCDD	ND	0.0768							
Total HxCDD	ND	0.0654							
Total HpCDD	ND	0.0952							
Total TCDF	ND	0.0683							
Total PeCDF	ND	0.0523							
Total HxCDF	ND	0.0783							
Total HpCDF	ND	0.0823							

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: B0D0323 Date Extracted: 29-Apr-2020 11:28		Lab Sample: B0D0323-BS1 Date Analyzed: 06-May-20 14:23 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	17.6	20.0	87.8	67 - 158	IS 13C-2,3,7,8-TCDD	56.2	20 - 175
1,2,3,7,8-PeCDD	89.4	100	89.4	70 - 142	13C-1,2,3,7,8-PeCDD	65.5	21 - 227
1,2,3,4,7,8-HxCDD	93.2	100	93.2	70 - 164	13C-1,2,3,4,7,8-HxCDD	73.3	21 - 193
1,2,3,6,7,8-HxCDD	96.4	100	96.4	76 - 134	13C-1,2,3,6,7,8-HxCDD	70.7	25 - 163
1,2,3,7,8,9-HxCDD	95.4	100	95.4	64 - 162	13C-1,2,3,7,8,9-HxCDD	72.2	21 - 193
1,2,3,4,6,7,8-HpCDD	96.1	100	96.1	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	65.5	26 - 166
OCDD	196	200	97.9	78 - 144	13C-OCDD	52.2	13 - 199
2,3,7,8-TCDF	18.9	20.0	94.7	75 - 158	13C-2,3,7,8-TCDF	50.7	22 - 152
1,2,3,7,8-PeCDF	94.0	100	94.0	80 - 134	13C-1,2,3,7,8-PeCDF	63.1	21 - 192
2,3,4,7,8-PeCDF	91.8	100	91.8	68 - 160	13C-2,3,4,7,8-PeCDF	64.2	13 - 328
1,2,3,4,7,8-HxCDF	101	100	101	72 - 134	13C-1,2,3,4,7,8-HxCDF	69.6	19 - 202
1,2,3,6,7,8-HxCDF	104	100	104	84 - 130	13C-1,2,3,6,7,8-HxCDF	74.7	21 - 159
2,3,4,6,7,8-HxCDF	104	100	104	70 - 156	13C-2,3,4,6,7,8-HxCDF	73.3	22 - 176
1,2,3,7,8,9-HxCDF	101	100	101	78 - 130	13C-1,2,3,7,8,9-HxCDF	65.1	17 - 205
1,2,3,4,6,7,8-HpCDF	103	100	103	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	71.1	21 - 158
1,2,3,4,7,8,9-HpCDF	101	100	101	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	59.3	20 - 186
OCDF	199	200	99.6	63 - 170	13C-OCDF	51.8	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	58.8	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0E0079 Date Extracted: 10-May-2020 5:59		Lab Sample: B0E0079-BLK1 Date Analyzed: 18-May-20 17:07 Column: ZB-5MS					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0515			IS 13C-2,3,7,8-TCDD	89.5	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0463			13C-1,2,3,7,8-PeCDD	94.3	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.0740			13C-1,2,3,4,7,8-HxCDD	83.9	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.0784			13C-1,2,3,6,7,8-HxCDD	81.6	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.0853			13C-1,2,3,7,8,9-HxCDD	82.6	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.0993			13C-1,2,3,4,6,7,8-HpCDD	84.5	23 - 140		
OCDD	0.237			J	13C-OCDD	79.2	17 - 157		
2,3,7,8-TCDF	ND	0.0300			13C-2,3,7,8-TCDF	89.4	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0329			13C-1,2,3,7,8-PeCDF	94.7	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0326			13C-2,3,4,7,8-PeCDF	92.3	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0567			13C-1,2,3,4,7,8-HxCDF	83.6	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0549			13C-1,2,3,6,7,8-HxCDF	83.2	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0583			13C-2,3,4,6,7,8-HxCDF	82.0	28 - 136		
1,2,3,7,8,9-HxCDF	0.129			J	13C-1,2,3,7,8,9-HxCDF	83.1	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.0724			13C-1,2,3,4,6,7,8-HpCDF	81.1	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.0791			13C-1,2,3,4,7,8,9-HpCDF	90.4	26 - 138		
OCDF	0.142			J	13C-OCDF	82.3	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	86.8	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.0130		
TOTALS									
Total TCDD	ND	0.0515							
Total PeCDD	ND	0.0463							
Total HxCDD	ND	0.0853							
Total HpCDD	ND	0.0993							
Total TCDF	ND	0.0300							
Total PeCDF	ND	0.0329							
Total HxCDF	0.165								
Total HpCDF	ND	0.0791							

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: B0E0079 Date Extracted: 10-May-2020 5:59		Lab Sample: B0E0079-BS1 Date Analyzed: 18-May-20 15:35 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	17.7	20.0	88.3	67 - 158	IS 13C-2,3,7,8-TCDD	89.0	20 - 175
1,2,3,7,8-PeCDD	90.1	100	90.1	70 - 142	13C-1,2,3,7,8-PeCDD	96.2	21 - 227
1,2,3,4,7,8-HxCDD	97.1	100	97.1	70 - 164	13C-1,2,3,4,7,8-HxCDD	94.6	21 - 193
1,2,3,6,7,8-HxCDD	98.3	100	98.3	76 - 134	13C-1,2,3,6,7,8-HxCDD	90.4	25 - 163
1,2,3,7,8,9-HxCDD	96.3	100	96.3	64 - 162	13C-1,2,3,7,8,9-HxCDD	84.8	21 - 193
1,2,3,4,6,7,8-HpCDD	99.4	100	99.4	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	77.9	26 - 166
OCDD	195	200	97.6	78 - 144	13C-OCDD	69.6	13 - 199
2,3,7,8-TCDF	19.6	20.0	97.8	75 - 158	13C-2,3,7,8-TCDF	90.1	22 - 152
1,2,3,7,8-PeCDF	95.3	100	95.3	80 - 134	13C-1,2,3,7,8-PeCDF	96.5	21 - 192
2,3,4,7,8-PeCDF	94.2	100	94.2	68 - 160	13C-2,3,4,7,8-PeCDF	98.6	13 - 328
1,2,3,4,7,8-HxCDF	105	100	105	72 - 134	13C-1,2,3,4,7,8-HxCDF	83.9	19 - 202
1,2,3,6,7,8-HxCDF	107	100	107	84 - 130	13C-1,2,3,6,7,8-HxCDF	84.7	21 - 159
2,3,4,6,7,8-HxCDF	106	100	106	70 - 156	13C-2,3,4,6,7,8-HxCDF	83.2	22 - 176
1,2,3,7,8,9-HxCDF	105	100	105	78 - 130	13C-1,2,3,7,8,9-HxCDF	82.5	17 - 205
1,2,3,4,6,7,8-HpCDF	107	100	107	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	78.0	21 - 158
1,2,3,4,7,8,9-HpCDF	109	100	109	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	84.3	20 - 186
OCDF	210	200	105	63 - 170	13C-OCDF	75.0	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	89.6	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-165SC-A-00-01-200426 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000953-01 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.0 g	QC Batch: B0D0323 Date Extracted: 29-Apr-2020 11:28
Date Collected: 26-Apr-2020 11:49	% Solids: 89.2	Date Analyzed : 07-May-20 00:24 Column: ZB-5MS 12-May-20 14:02 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0591			IS 13C-2,3,7,8-TCDD	90.2	25 - 164	
1,2,3,7,8-PeCDD	0.112			J	13C-1,2,3,7,8-PeCDD	88.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.145			13C-1,2,3,4,7,8-HxCDD	87.0	32 - 141	
1,2,3,6,7,8-HxCDD	0.719			J	13C-1,2,3,6,7,8-HxCDD	80.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.190			13C-1,2,3,7,8,9-HxCDD	79.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	24.9				13C-1,2,3,4,6,7,8-HpCDD	72.5	23 - 140	
OCDD	211				13C-OCDD	50.6	17 - 157	
2,3,7,8-TCDF	0.670				13C-2,3,7,8-TCDF	85.3	24 - 169	
1,2,3,7,8-PeCDF	0.920			J	13C-1,2,3,7,8-PeCDF	92.0	24 - 185	
2,3,4,7,8-PeCDF	0.479			J	13C-2,3,4,7,8-PeCDF	89.7	21 - 178	
1,2,3,4,7,8-HxCDF	2.02			J	13C-1,2,3,4,7,8-HxCDF	88.4	26 - 152	
1,2,3,6,7,8-HxCDF	0.644			J	13C-1,2,3,6,7,8-HxCDF	90.1	26 - 123	
2,3,4,6,7,8-HxCDF	0.269			J	13C-2,3,4,6,7,8-HxCDF	80.4	28 - 136	
1,2,3,7,8,9-HxCDF	0.267			J	13C-1,2,3,7,8,9-HxCDF	80.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	3.54				13C-1,2,3,4,6,7,8-HpCDF	74.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.572			J	13C-1,2,3,4,7,8,9-HpCDF	70.1	26 - 138	
OCDF	9.31				13C-OCDF	50.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	93.9	35 - 197	

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

TEQMinWHO2005Dioxin 1.10

TOTALS		
Total TCDD	ND	0.116
Total PeCDD	0.392	0.512
Total HxCDD	8.32	
Total HpCDD	58.5	
Total TCDF	2.91	3.29
Total PeCDF	3.61	3.88
Total HxCDF	6.48	
Total HpCDF	11.2	

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-165SC-A-01-02-200426 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000953-02 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.3 g	QC Batch: B0E0079 Date Extracted: 10-May-2020 5:59
Date Collected: 26-Apr-2020 11:49	% Solids: 81.4	Date Analyzed : 19-May-20 00:03 Column: ZB-5MS 20-May-20 18:21 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.317		IS 13C-2,3,7,8-TCDD	72.4	25 - 164	
1,2,3,7,8-PeCDD	0.419			J	13C-1,2,3,7,8-PeCDD	78.2	25 - 181	
1,2,3,4,7,8-HxCDD	0.211			J	13C-1,2,3,4,7,8-HxCDD	62.5	32 - 141	
1,2,3,6,7,8-HxCDD	1.48			J	13C-1,2,3,6,7,8-HxCDD	57.5	28 - 130	
1,2,3,7,8,9-HxCDD	0.606			J	13C-1,2,3,7,8,9-HxCDD	58.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	47.8				13C-1,2,3,4,6,7,8-HpCDD	54.4	23 - 140	
OCDD	571			B	13C-OCDD	41.9	17 - 157	
2,3,7,8-TCDF	2.55				13C-2,3,7,8-TCDF	70.9	24 - 169	
1,2,3,7,8-PeCDF	2.87				13C-1,2,3,7,8-PeCDF	77.6	24 - 185	
2,3,4,7,8-PeCDF	1.96			J	13C-2,3,4,7,8-PeCDF	74.2	21 - 178	
1,2,3,4,7,8-HxCDF	5.86				13C-1,2,3,4,7,8-HxCDF	59.4	26 - 152	
1,2,3,6,7,8-HxCDF	1.70			J	13C-1,2,3,6,7,8-HxCDF	58.7	26 - 123	
2,3,4,6,7,8-HxCDF	1.02			J	13C-2,3,4,6,7,8-HxCDF	53.9	28 - 136	
1,2,3,7,8,9-HxCDF	0.325			J, B	13C-1,2,3,7,8,9-HxCDF	57.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	18.6				13C-1,2,3,4,6,7,8-HpCDF	52.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	1.25			J	13C-1,2,3,4,7,8,9-HpCDF	58.0	26 - 138	
OCDF	22.7			B	13C-OCDF	45.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	64.6	35 - 197	

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

TEQMinWHO2005Dioxin 3.32

TOTALS								
Total TCDD	1.23		1.55					
Total PeCDD	1.95		2.47					
Total HxCDD	14.1							
Total HpCDD	115							
Total TCDF	16.2							
Total PeCDF	20.5							
Total HxCDF	23.2			B				
Total HpCDF	44.2							

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-165SC-A-02-03-200426 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000953-03 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 14.0 g	QC Batch: B0E0079 Date Extracted: 10-May-2020 5:59
Date Collected: 26-Apr-2020 11:49	% Solids: 71.9	Date Analyzed: 19-May-20 00:49 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.209		IS 13C-2,3,7,8-TCDD	43.9	25 - 164	
1,2,3,7,8-PeCDD	0.287			J	13C-1,2,3,7,8-PeCDD	47.5	25 - 181	
1,2,3,4,7,8-HxCDD	0.114			J	13C-1,2,3,4,7,8-HxCDD	37.6	32 - 141	
1,2,3,6,7,8-HxCDD	1.13			J	13C-1,2,3,6,7,8-HxCDD	35.9	28 - 130	
1,2,3,7,8,9-HxCDD	0.386			J	13C-1,2,3,7,8,9-HxCDD	36.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	20.8				13C-1,2,3,4,6,7,8-HpCDD	29.7	23 - 140	
OCDD	436			B	13C-OCDD	10.4	17 - 157	H
2,3,7,8-TCDF	0.281			J	13C-2,3,7,8-TCDF	41.7	24 - 169	
1,2,3,7,8-PeCDF	0.172			J	13C-1,2,3,7,8-PeCDF	49.4	24 - 185	
2,3,4,7,8-PeCDF	1.17			J	13C-2,3,4,7,8-PeCDF	47.6	21 - 178	
1,2,3,4,7,8-HxCDF	0.643			J	13C-1,2,3,4,7,8-HxCDF	38.5	26 - 152	
1,2,3,6,7,8-HxCDF	0.397			J	13C-1,2,3,6,7,8-HxCDF	37.3	26 - 123	
2,3,4,6,7,8-HxCDF	0.867			J	13C-2,3,4,6,7,8-HxCDF	32.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.182			13C-1,2,3,7,8,9-HxCDF	37.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	16.4				13C-1,2,3,4,6,7,8-HpCDF	33.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.201			13C-1,2,3,4,7,8,9-HpCDF	34.7	26 - 138	
OCDF	11.2			B	13C-OCDF	18.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	38.8	35 - 197	

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

TEQMinWHO2005Dioxin 1.53

TOTALS			
Total TCDD	1.30		1.99
Total PeCDD	2.64		3.20
Total HxCDD	8.26		
Total HpCDD	58.0		
Total TCDF	13.4		13.6
Total PeCDF	17.2		20.0
Total HxCDF	20.6		
Total HpCDF	38.3		

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-165SC-A-03-04-200426 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000953-04 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.1 g	QC Batch: B0D0323 Date Extracted: 29-Apr-2020 11:28
Date Collected: 26-Apr-2020 11:49	% Solids: 82.3	Date Analyzed : 08-May-20 00:33 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.115			IS 13C-2,3,7,8-TCDD	53.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.107			13C-1,2,3,7,8-PeCDD	65.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.119			13C-1,2,3,4,7,8-HxCDD	72.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.122			13C-1,2,3,6,7,8-HxCDD	74.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.126			13C-1,2,3,7,8,9-HxCDD	82.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.86			J	13C-1,2,3,4,6,7,8-HpCDD	72.0	23 - 140	
OCDD	21.2				13C-OCDD	55.6	17 - 157	
2,3,7,8-TCDF	ND	0.0313			13C-2,3,7,8-TCDF	49.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0653			13C-1,2,3,7,8-PeCDF	61.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0599			13C-2,3,4,7,8-PeCDF	61.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0600			13C-1,2,3,4,7,8-HxCDF	72.6	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0589			13C-1,2,3,6,7,8-HxCDF	76.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0579			13C-2,3,4,6,7,8-HxCDF	78.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.106			13C-1,2,3,7,8,9-HxCDF	67.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0641			13C-1,2,3,4,6,7,8-HpCDF	81.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.117			13C-1,2,3,4,7,8,9-HpCDF	60.8	26 - 138	
OCDF	ND	0.194			13C-OCDF	43.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	54.9	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0250

TOTALS								
Total TCDD	ND	0.0115						
Total PeCDD	ND	0.107						
Total HxCDD	1.77							
Total HpCDD	6.15		6.15					
Total TCDF	ND	0.0313						
Total PeCDF	ND	0.0653						
Total HxCDF	ND	0.106						
Total HpCDF	ND	0.117						

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-165SC-A-04-05-200426 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000953-05 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.1 g	QC Batch: B0D0323 Date Extracted: 29-Apr-2020 11:28
Date Collected: 26-Apr-2020 11:49	% Solids: 86.4	Date Analyzed: 08-May-20 01:20 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0767			IS 13C-2,3,7,8-TCDD	80.6	25 - 164	
1,2,3,7,8-PeCDD	ND	0.117			13C-1,2,3,7,8-PeCDD	86.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.102			13C-1,2,3,4,7,8-HxCDD	96.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.110			13C-1,2,3,6,7,8-HxCDD	96.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.122			13C-1,2,3,7,8,9-HxCDD	104	32 - 141	
1,2,3,4,6,7,8-HpCDD	3.77				13C-1,2,3,4,6,7,8-HpCDD	86.0	23 - 140	
OCDD	23.5				13C-OCDD	66.1	17 - 157	
2,3,7,8-TCDF	ND	0.0497			13C-2,3,7,8-TCDF	77.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0405			13C-1,2,3,7,8-PeCDF	88.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0379			13C-2,3,4,7,8-PeCDF	85.7	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0417			13C-1,2,3,4,7,8-HxCDF	93.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0394			13C-1,2,3,6,7,8-HxCDF	102	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0407			13C-2,3,4,6,7,8-HxCDF	99.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0750			13C-1,2,3,7,8,9-HxCDF	87.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0620			13C-1,2,3,4,6,7,8-HpCDF	96.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.108			13C-1,2,3,4,7,8,9-HpCDF	73.3	26 - 138	
OCDF	0.447			J	13C-OCDF	54.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	77.1	35 - 197	

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

TEQMinWHO2005Dioxin 0.0449

TOTALS		
Total TCDD	0.145	
Total PeCDD	ND	0.117
Total HxCDD	1.33	
Total HpCDD	9.53	
Total TCDF	ND	0.0497
Total PeCDF	ND	0.0405
Total HxCDF	ND	0.0750
Total HpCDF	0.305	

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-165SC-A-05-06-200426 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000953-06 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.0 g	QC Batch: B0D0323 Date Extracted: 29-Apr-2020 11:28
Date Collected: 26-Apr-2020 11:49	% Solids: 84.4	Date Analyzed : 08-May-20 02:06 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0717			IS 13C-2,3,7,8-TCDD	100	25 - 164	
1,2,3,7,8-PeCDD	ND		0.0734		13C-1,2,3,7,8-PeCDD	97.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.115			13C-1,2,3,4,7,8-HxCDD	99.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.114			13C-1,2,3,6,7,8-HxCDD	97.1	28 - 130	
1,2,3,7,8,9-HxCDD	0.220			J	13C-1,2,3,7,8,9-HxCDD	94.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.744			J	13C-1,2,3,4,6,7,8-HpCDD	86.6	23 - 140	
OCDD	5.42				13C-OCDD	66.1	17 - 157	
2,3,7,8-TCDF	ND	0.0369			13C-2,3,7,8-TCDF	96.2	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0420			13C-1,2,3,7,8-PeCDF	96.6	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0382			13C-2,3,4,7,8-PeCDF	98.0	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0384			13C-1,2,3,4,7,8-HxCDF	102	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0360			13C-1,2,3,6,7,8-HxCDF	106	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0415			13C-2,3,4,6,7,8-HxCDF	101	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0740			13C-1,2,3,7,8,9-HxCDF	90.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0468			13C-1,2,3,4,6,7,8-HpCDF	96.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0729			13C-1,2,3,4,7,8,9-HpCDF	77.2	26 - 138	
OCDF	ND	0.130			13C-OCDF	56.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.1	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0311

TOTALS								
Total TCDD	0.204							
Total PeCDD	0.280		0.353					
Total HxCDD	1.08		1.54					
Total HpCDD	2.23							
Total TCDF	ND	0.0369						
Total PeCDF	ND	0.0420						
Total HxCDF	ND	0.0740						
Total HpCDF	ND	0.0729						

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-165SC-A-06-07-200426 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000953-07 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.1 g	QC Batch: B0D0323 Date Extracted: 29-Apr-2020 11:28
Date Collected: 26-Apr-2020 11:49	% Solids: 88.8	Date Analyzed : 08-May-20 11:16 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0590			IS 13C-2,3,7,8-TCDD	102	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0829			13C-1,2,3,7,8-PeCDD	96.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0590			13C-1,2,3,4,7,8-HxCDD	104	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0604			13C-1,2,3,6,7,8-HxCDD	109	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0737			13C-1,2,3,7,8,9-HxCDD	105	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.115			13C-1,2,3,4,6,7,8-HpCDD	90.4	23 - 140	
OCDD	ND		0.359		13C-OCDD	60.4	17 - 157	
2,3,7,8-TCDF	ND	0.0345			13C-2,3,7,8-TCDF	101	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0395			13C-1,2,3,7,8-PeCDF	102	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0379			13C-2,3,4,7,8-PeCDF	96.8	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0397			13C-1,2,3,4,7,8-HxCDF	106	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0395			13C-1,2,3,6,7,8-HxCDF	113	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0435			13C-2,3,4,6,7,8-HxCDF	105	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0835			13C-1,2,3,7,8,9-HxCDF	88.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0474			13C-1,2,3,4,6,7,8-HpCDF	98.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0940			13C-1,2,3,4,7,8,9-HpCDF	66.1	26 - 138	
OCDF	ND	0.170			13C-OCDF	43.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.6	35 - 197	

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

TEQMinWHO2005Dioxin 0.00

TOTALS		
Total TCDD	ND	0.0590
Total PeCDD	ND	0.0829
Total HxCDD	ND	0.0737
Total HpCDD	ND	0.115
Total TCDF	ND	0.0345
Total PeCDF	ND	0.0395
Total HxCDF	ND	0.0835
Total HpCDF	ND	0.0940

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-165SC-A-07-08-200426 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000953-08 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.0 g	QC Batch: B0D0323 Date Extracted: 29-Apr-2020 11:28
Date Collected: 26-Apr-2020 11:49	% Solids: 77.2	Date Analyzed : 08-May-20 12:02 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0848			IS 13C-2,3,7,8-TCDD	103	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0580			13C-1,2,3,7,8-PeCDD	99.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0914			13C-1,2,3,4,7,8-HxCDD	105	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0932			13C-1,2,3,6,7,8-HxCDD	108	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.115			13C-1,2,3,7,8,9-HxCDD	105	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.380			J	13C-1,2,3,4,6,7,8-HpCDD	92.6	23 - 140	
OCDD	2.64			J	13C-OCDD	67.7	17 - 157	
2,3,7,8-TCDF	ND	0.0337			13C-2,3,7,8-TCDF	102	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0184			13C-1,2,3,7,8-PeCDF	103	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0429			13C-2,3,4,7,8-PeCDF	98.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0369			13C-1,2,3,4,7,8-HxCDF	104	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0336			13C-1,2,3,6,7,8-HxCDF	112	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0396			13C-2,3,4,6,7,8-HxCDF	106	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0730			13C-1,2,3,7,8,9-HxCDF	89.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0546			13C-1,2,3,4,6,7,8-HpCDF	102	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.108			13C-1,2,3,4,7,8,9-HpCDF	68.8	26 - 138	
OCDF	0.194			J	13C-OCDF	50.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.3	35 - 197	

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

TEQMinWHO2005Dioxin 0.00465

TOTALS			
Total TCDD	0.127		
Total PeCDD	ND	0.0580	
Total HxCDD	0.290		
Total HpCDD	1.00		
Total TCDF	ND	0.0337	
Total PeCDF	ND	0.0184	
Total HxCDF	ND	0.0730	
Total HpCDF	ND	0.108	

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

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

Project: Gasco PDI
Client: NW Natural

2000953 4.3°C

COC ID: EGL-20200426-122154
Sample Custodian: SN
Lab: ~~Anchor Lab~~ Vista

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
* 001	PDI-165SC-A-00-01-200426	N	SE	04/26/2020	11:49	2	<input type="checkbox"/>	* PCB-Cogeners Archive (EGL) Dioxin/Furans	ARCHIVE	-1	-10°C
002	PDI-165SC-A-01-02-200426	N	SE	04/26/2020	11:49	2	<input type="checkbox"/>	Archive (EGL) Dioxin/Furans	ARCHIVE	-1	-10°C
003	PDI-165SC-A-02-03-200426	N	SE	04/26/2020	11:49	2	<input type="checkbox"/>	Archive (EGL) Dioxin/Furans	ARCHIVE	-1	-10°C
004	PDI-165SC-A-03-04-200426	N	SE	04/26/2020	11:49	2	<input type="checkbox"/>	Archive (EGL) Dioxin/Furans	ARCHIVE	-1	-10°C
005	PDI-165SC-A-04-05-200426	N	SE	04/26/2020	11:49	2	<input type="checkbox"/>	Archive (EGL) Dioxin/Furans	ARCHIVE	-1	-10°C
006	PDI-165SC-A-05-06-200426	N	SE	04/26/2020	11:49	2	<input type="checkbox"/>	Archive (EGL) Dioxin/Furans	ARCHIVE	-1	-10°C
007	PDI-165SC-A-06-07-200426	N	SE	04/26/2020	11:49	2	<input type="checkbox"/>	Archive (EGL) Dioxin/Furans	ARCHIVE	-1	-10°C
008	PDI-165SC-A-07-08-200426	N	SE	04/26/2020	11:49	2	<input type="checkbox"/>	Archive (EGL) Dioxin/Furans	ARCHIVE	-1	-10°C
* 009	PDI-165SC-A-08-09-200426	N	SE	04/26/2020	11:49	2	<input type="checkbox"/>	Archive (EGL) Dioxin/Furans	ARCHIVE	-1	-10°C
* 010	PDI-165SC-A-09-10-200426	N	SE	04/26/2020	11:49	2	<input type="checkbox"/>	Archive (EGL) Dioxin/Furans	ARCHIVE	-1	-10°C
* 011	PDI-165SC-A-10-11-200426	N	SE	04/26/2020	11:49	2	<input type="checkbox"/>	Archive (EGL) Dioxin/Furans	ARCHIVE	-1	-10°C

Comment:
* WO # 2000961
* WO # 2000955

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: <i>Sasha Norwood</i>	Signature: <i>William R. Wright</i>	Signature:	Signature:	Signature:	Signature:
Print Name: <i>Sasha Norwood</i>	Print Name: <i>William R. Wright</i>	Print Name:	Print Name:	Print Name:	Print Name:
Company: <i>Anchor OEA</i>	Company: <i>VAI</i>	Company:	Company:	Company:	Company:
Date/Time: <i>4/27/20 12:30</i>	Date/Time: <i>04-28-20 09:04</i>	Date/Time:	Date/Time:	Date/Time:	Date/Time:

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

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

Project: Gasco PDI
Client: NW Natural

2000953

COC ID: EGL-20200426-122154
Sample Custodian: SN
Lab: ~~Anchor Lab~~ Vista

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
* 011	PDI-165SC-A-10-11-200426	N	SE	04/26/2020	11:49	21	<input type="checkbox"/>	Archive (EGL) Dioxin/Furans	ARCHIVE	-1	-10°C
* 012	PDI-165SC-A-11-11.8-200426	N	SE	04/26/2020	11:49	21	<input type="checkbox"/>	Archive (EGL) Dioxin/Furans	ARCHIVE	-1	-10°C

27 APR 20

Comment: * WO # 2000955					
Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature:	Signature:	Signature:	Signature:
Print Name: Seshy Norwood	Print Name: William R. Wright	Print Name:	Print Name:	Print Name:	Print Name:
Company: Anchor QEA	Company: VA1	Company:	Company:	Company:	Company:
Date/Time: 4/27/20 12:30	Date/Time: 4-28-20 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

Page # 1 of 1

 Vista Work Order #: 2000953

 TAT Push

Samples Arrival:	Date/Time 4/28/20 09:04	Initials: WWS	Location: WR-2
			Shelf/Rack: NA
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: 4.3 (uncorrected)	Probe used: Y / <input checked="" type="checkbox"/> N		Thermometer ID: IR3
Temp °C: 4.3 (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>		
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>		
Airbill <u>Fof 3</u> Trk # <u>7703 3190 1482</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 04/28/20 1443	Initials: WWS	Location: WR-2
			Shelf/Rack: G-5
COC Anomaly/Sample Acceptance Form completed?			<input type="checkbox"/>
			<input checked="" type="checkbox"/>
			<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2000953

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2000953-01	A PDI-165SC-A-00-01-200426	<input checked="" type="checkbox"/>	26-Apr-20 11:49	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000953-02	A PDI-165SC-A-01-02-200426	<input checked="" type="checkbox"/>	26-Apr-20 11:49	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000953-03	A PDI-165SC-A-02-03-200426	<input checked="" type="checkbox"/>	26-Apr-20 11:49	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000953-04	A PDI-165SC-A-03-04-200426	<input checked="" type="checkbox"/>	26-Apr-20 11:49	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000953-05	A PDI-165SC-A-04-05-200426	<input checked="" type="checkbox"/>	26-Apr-20 11:49	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000953-06	A PDI-165SC-A-05-06-200426	<input checked="" type="checkbox"/>	26-Apr-20 11:49	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000953-07	A PDI-165SC-A-06-07-200426	<input checked="" type="checkbox"/>	26-Apr-20 11:49	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000953-08	A PDI-165SC-A-07-08-200426	<input checked="" type="checkbox"/>	26-Apr-20 11:49	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid

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

Any discrepancies are noted in the following columns.

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

Comments:

Verified by/Date: KA 04/28/2020

EXTRACTION INFORMATION

Process Sheet
 Workorder: **2000953**

Prep Expiration: 2021-04-26
 Client: Anchor QEA, LLC

Workorder Due: 05-May-20 00:00

TAT: 7

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

Prep Batch: 8000323

Prep Data Entered: DF 05/02/20
Date and Initials

Initial Sequence: SOE0009

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2000953-01	✓ <input checked="" type="checkbox"/>	PDI-165SC-A-00-01-200426	28-Apr-20 09:04	WR-2 G-5	
2000953-02	✓ <input checked="" type="checkbox"/>	PDI-165SC-A-01-02-200426	28-Apr-20 09:04	WR-2 G-5	
2000953-03	✓ <input checked="" type="checkbox"/>	PDI-165SC-A-02-03-200426	28-Apr-20 09:04	WR-2 G-5	
2000953-04	✓ <input checked="" type="checkbox"/>	PDI-165SC-A-03-04-200426	28-Apr-20 09:04	WR-2 G-5	
2000953-05	✓ <input checked="" type="checkbox"/>	PDI-165SC-A-04-05-200426	28-Apr-20 09:04	WR-2 G-5	
2000953-06	✓ <input checked="" type="checkbox"/>	PDI-165SC-A-05-06-200426	28-Apr-20 09:04	WR-2 G-5	
2000953-07	✓ <input checked="" type="checkbox"/>	PDI-165SC-A-06-07-200426	28-Apr-20 09:04	WR-2 G-5	
2000953-08	✓ <input checked="" type="checkbox"/>	PDI-165SC-A-07-08-200426	28-Apr-20 09:04	WR-2 G-5	

WO Comments: **Pest - 1g extraction (dry weight). DDX, Aldrin, 5-Chlordane, Dieldrin, Lindane**
Dioxin - 10g (dry weight)
PCB - 5g extraction (dry weight)
One dup required per batch of 20 samples

RR 04/29/20
 DF 04/29/20

Pre-Prep Check Out: _____
 Pre-Prep Check In: _____

Prep Check Out: _____
 Prep Check In: _____

Prep Reconciled Initials/Date: LA 04/29/2020
 Spike Reconciled Initials/Date: DF 04/29/20
 VialBoxID: UGLY

PREPARATION BENCH SHEET

Matrix: Solid

B0D0323

Chemist: DF
Prep Date/Time: 29-Apr-20 11:28

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

**DF05/01/20

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	Florisil CHEM/DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B0D0323-BLK1	NA	(10.00)	DF RR 04/29/20	DF RR 04/30/20	DF 04/30/20	DF 04/30/20	DF 04/30/20	DF 05/01/20	DF RR 05/01/20
<input type="checkbox"/>	B0D0323-BS1	↓	(10.00)	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	B0D0323-DUP1	12.46	12.04	↓	↓	NA	multi- calcu	↓	↓	↓
<input type="checkbox"/>	2000951-01	12.46	12.82	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000951-02	16.01	16.80	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000951-03	12.47	12.95	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000951-04	12.18	12.33	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000951-05	12.65	12.77	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000951-06	10.96	11.05	↓	DF RR 04/30/20	NA	DF 04/30/20	DF 04/20/20	DF 05/01/20	DF RR 05/01/20
<input type="checkbox"/>	2000951-07	11.15	11.25	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000951-08	12.07	12.30	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000951-09	12.18	12.26	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000953-01	11.21	12.04	↓	↓	↓	multi- calcu	↓	↓	↓
<input type="checkbox"/>	2000953-02	12.28	12.15	↓	↓	DF 04/30/20	↓	↓	↓	↓
<input type="checkbox"/>	2000953-03	13.90	12.05	↓	↓	↓	↓	↓	↓	↓

IS Name <u>19I</u>	NS Name <u>18F1915</u>	CRS Name <u>19I1602</u>	RS Name <u>19I1603</u>	Cycle Time	APP: SEFUN SOX <u>DS</u>	Check Out: <u>DF 04/29/20</u>
PCDD/F <u>19I230, 10mL</u>	PCDD/F <u>18F1915, 10mL</u>	PCDD/F <u>19I1602, 10mL</u>	PCDD/F <u>19I1603, 10mL</u>	Start Date/Time <u>04/29/20</u>	SOLV: <u>Toluene</u>	Chemist/Date: <u>DF 04/29/20</u>
PCB	PCB	PCB	PCB	Stop Date/Time <u>04/30/20</u>	Other <u>NA</u>	Check In: <u>DF 04/29/20</u>
PAH	PAH	PAH	PAH	Final Volume(s) <u>20mL</u>	* <u>CoC14</u>	Balance ID: <u>HRMS-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

0750
* Sample went dry microsoxhlet was broken RR 04/30/20

PREPARATION BENCH SHEET

Matrix: Solid

B0D0323

Chemist: DF

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 29-Apr-20 11:28

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"/>	2000953-04	12.15	12.12	DF RP 04/29/20	DF RP 04/30/20	NA	DF 04/30/20	DF 07/30/20	DF 05/01/20	DF RP 05/01/20
<input type="checkbox"/>	2000953-05	11.58	12.11	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000953-06	11.85	12.02	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000953-07	11.26	12.14	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000953-08	12.95	12.02	↓	↓	↓	↓	↓	↓	↓

IS Name <u>19L2301, 10mL</u>	NS Name <u>18F1913, 10mL</u>	CRS Name <u>19I1602, 10mL</u>	RS Name <u>19I1603, 10mL</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: <u>DF 04/29/20</u>
PCDD/F	PCDD/F	PCDD/F	PCDD/F	Start Date/Time <u>04/29/20 1540</u>	SOLV: <u>Toluene</u>	Check In: <u>DF 04/29/20</u>
PCB	PCB	PCB	PCB	Stop Date/Time <u>04/30/20 0750</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH	PAH	PAH	PAH	Final Volume(s) <u>20mL</u>	<u>C14</u>	

Comments:

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

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000951-01	12.82 ✓	80.23715	10.2864	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000951-02	16.8 ✓	62.45733	10.4928	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000951-03	12.95 ✓	80.17241	10.3823	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000951-04	12.33 ✓	82.07705	10.1201	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000951-05	10 .	79.04329	7.9043	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000951-06	11.05 ✓	91.21951	10.0798	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000951-07	11.25 ✓	89.70588	10.0919	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000951-08	12.3 ✓	82.85714	10.1914	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000951-09	12.26 ✓	82.10702	10.0663	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000953-01	12.04 ✓	89.21053	10.7409	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000953-02	12.15 ✓	81.42292	9.8929	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000953-03	12.05 ✓	71.92225	8.6666	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000953-04	12.12 ✓	82.30216	9.9750	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000953-05	12.11 ✓	86.35514	10.4576	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000953-06	12.02 ✓	84.35672	10.1397	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000953-07	12.14 ✓	88.81278	10.7819	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000953-08	12.02 ✓	77.23343	9.2835	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
B0D0323-BLK1	10 ✓			20	29-Apr-20 11:28	DFO				QC
B0D0323-BS1	10 ✓			20	29-Apr-20 11:28	DFO	18F1913 ✓	10 ✓		QC
B0D0323-DUP1	12.5 ✓	80.23715	10.0296438	20	29-Apr-20 11:28	DFO				QC

All bolded data on report verified against written benchsheet by (initial/date) DF 05/02/20

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0D0308

Analyst: EMM	Test Code: %Moist/%Solids	Data Entry Verified by: (Initial and Date) <u>DF 05/02/20</u>
Analyte: Dried at 110°C+/-5°C	Units: %	
Oven ID: 01 02		

Inst HRMS-8
 Date/Time IN: 4/29/20 8:05 Date/Time OUT: 4/30/20 16:10

Particle Size	SampID	SampType	E		G		H	I	K					P
			Initial and Date:	EMM 04/29/20	RR 05/02/20	Dry Sample Weight (g)			%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	
	2000953-01	A	Sample	1.2800 ✓	5.0800 ✓	4.6700 ✓	3.3900	89.21	Sand	NA	NA	NA	NA	X
	2000953-02	A	Sample	1.2900 ✓	6.3500 ✓	5.4100 ✓	4.1200	81.42	Sand	NA	NA	NA	NA	X
	2000953-03	A	Sample	1.3000 ✓	5.9300 ✓	4.6300 ✓	3.3300	71.92	Sand	NA	NA	NA	NA	X
	2000953-04	A	Sample	1.2900 ✓	8.2400 ✓	7.0100 ✓	5.7200	82.30	Sand	NA	NA	NA	NA	X
	2000953-05	A	Sample	1.3000 ✓	6.6500 ✓	5.9200 ✓	4.6200	86.36	Sand	NA	NA	NA	NA	X
	2000953-06	A	Sample	1.3000 ✓	8.1400 ✓	7.0700 ✓	5.7700	84.36	Sand	NA	NA	NA	NA	X
	2000953-07	A	Sample	1.2900 ✓	5.6700 ✓	5.1800 ✓	3.8900	88.81	Sand	NA	NA	NA	NA	X
	2000953-08	A	Sample	1.3100 ✓	8.2500 ✓	6.6700 ✓	5.3600	77.23	Sand	NA	NA	NA	NA	X

*Sample homogenized in sample container unless otherwise noted.

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0D0308

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

Inst *HPMS-08*

Date/Time IN: *04/29/20*
0805
Date/Time OUT: *04/30/20*
1010

B		C		D		E		F		G		H		I		K		L		M		N		O		P		
Particle Size	SampID	SampType	Initial and Date:		Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	<i>ell 04/29/20</i>		<i>RR 04/30/20</i>		Visual Inspection	Cl-	pH Before	pH After	Acid Added	<i>N/A</i>		Sample Homogenized*							
			<i>ell 04/29/20</i>							<i>RR 04/30/20</i>		<i>N/A</i>																
	2000953-01	<i>A</i>	Sample	1.28	5.08	4.67				<i>sand</i>																		<i>X</i>
	2000953-02	<i>T</i>	Sample	1.29	6.35	5.41																						<i>X</i>
	2000953-03		Sample	1.30	5.93	4.63																						<i>X</i>
	2000953-04		Sample	1.29	8.24	7.01			<i>N/A</i>											<i>N/A</i>								<i>X</i>
	2000953-05		Sample	1.30	6.65	5.92																						<i>X</i>
	2000953-06		Sample	1.30	8.14	7.07																						<i>X</i>
	2000953-07		Sample	1.29	5.67	5.18																						<i>X</i>
	2000953-08	<i>↓</i>	Sample	1.31	8.25	6.67																						<i>X</i>

*Sample homogenized in sample container unless otherwise noted.

Process Sheet

Workorder: 2000953

RX

01 05/02/2020
Workorder Due: 05-May-20 00:00

Prep Expiration: 2021-04-26
Client: Anchor QEA, LLC

TAT: 7

RUSH!

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

Prep Batch: BOE0079

Prep Data Entered: 90 05/17/20
Date and Initials

Initial Sequence: SOE0051

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2000953-01	<input type="checkbox"/>	PDI-165SC-A-01-01-200426	28-Apr-20 09:04	WR-2 G-5	
2000953-02	<input checked="" type="checkbox"/>	PDI-165SC-A-01-02-200426	28-Apr-20 09:04	WR-2 G-5	
2000953-03	<input checked="" type="checkbox"/>	PDI-165SC-A-02-03-200426	28-Apr-20 09:04	WR-2 G-5	
2000953-04	<input type="checkbox"/>	PDI-165SC-A-03-04-200426	28-Apr-20 09:04	WR-2 G-5	
2000953-05	<input type="checkbox"/>	PDI-165SC-A-04-05-200426	28-Apr-20 09:04	WR-2 G-5	
2000953-06	<input type="checkbox"/>	PDI-165SC-A-05-06-200426	28-Apr-20 09:04	WR-2 G-5	
2000953-07	<input type="checkbox"/>	PDI-165SC-A-06-07-200426	28-Apr-20 09:04	WR-2 G-5	
2000953-08	<input type="checkbox"/>	PDI-165SC-A-07-08-200426	28-Apr-20 09:04	WR-2 G-5	

WO Comments: Dioxin - 10g (dry weight)
One dup required per batch of 20 samples

Pre-Prep Check Out: _____ Prep Check Out: RR 05/09/20, AZ 05/10/20 Prep Reconciled Initials/Date: RR 05/09/20
Pre-Prep Check In: _____ Prep Check In: RR 05/09/20, AZ 05/10/20 Spike Reconciled Initials/Date: AZ 05/10/20

*wasn't able to set -u.p
samples not enough glassware
RR 05/09/20

VialBoxID: USS Farragut

PREPARATION BENCH SHEET

Matrix: Solid

B0E0079

Chemist: AO

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 10-May-20 05:59

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"/>	B0E0079-BLK1	NA	(10.00)	AO AZ 05/10/20	BOB ^(A) 05/12/20	BOB 05/12/20	RR 05/13/20	RR 05/13/20	20 05/14/20	AO AZ 05/17/20
<input type="checkbox"/>	B0E0079-BS1	NA	(10.00)							
<input type="checkbox"/>	B0E0079-DUP1 2000995-10	14.69	14.82				Yellow			
<input type="checkbox"/>	2000953-02RE1	12.28	12.28							
<input type="checkbox"/>	2000953-03RE1	13.90	13.98							
<input type="checkbox"/>	2000995-01	16.45	16.51							
<input type="checkbox"/>	2000995-02	16.09	16.23							
<input type="checkbox"/>	2000995-03	17.08	17.10							
<input type="checkbox"/>	2000995-04	17.89	17.92							
<input type="checkbox"/>	2000995-05	18.67	18.77							
<input type="checkbox"/>	2000995-06	14.69	14.69							
<input type="checkbox"/>	2000995-07	16.02	16.02							
<input type="checkbox"/>	2000995-08	18.52	18.83							
<input type="checkbox"/>	2000995-09	14.75	17.07							
<input type="checkbox"/>	2000995-10	14.69	14.89							

IS Name <u>V3</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>AZ 05/10/20</u>
PCDD/F <u>19L2301, 10ML</u>	PCDD/F <u>18F1913, 10ML</u>	PCDD/F <u>19I1602, 10ML</u>	PCDD/F <u>19I11003, 10ML</u>	Start Date/Time <u>1420 05/10/20</u>	SOLV: <u>T01</u>	Check In: Chemist/Date: <u>AZ 05/19/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>620 05/11/20</u>	Other <u>NA</u>	Balance ID: <u>HRMS-9</u>
PAH _____	PAH _____	PAH _____	PAH _____		Final Volume(s) <u>20mL</u>	
					<u>C14</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

(A) No spike witness due to Covid-19. BOB 05/12/20
 (B) Color, oily, smells like gasoline. BOB 05/12/20

PREPARATION BENCH SHEET

Matrix: Solid

B0E0079

Chemist: AO

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 10-May-20 05:59

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"/>	2000995-11	(B)(C) 14.10	14.24	NO RE 05/10/20	BOB 05/12/20	BOB 05/12/20	RR 05/13/20 yellow	RR 05/13/20	2 05/14/20	EM AZ 05/17/20
<input type="checkbox"/>	2000995-12	I 16.12	16.14	I	I	I	I	I	I	

- (B) No spike witness due to Covid-19. BOB 05/12/20
- (C) Color, oily, smelled like gasoline. BOB 05/12/20
- (C) a few mls leaked from stopcock when AP. BOB 05/12/20

IS Name <u>13</u>	NS Name <u>V1</u>	CRS Name <u>V1</u>	RS Name	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: <u>AZ</u>
PCDD/F <u>19L2301, 10mL</u>	PCDD/F <u>18F1913, 10mL</u>	PCDD/F <u>19I1602, 10mL</u>	PCDD/F	Start Date/Time <u>1420 05/14/20</u>	SOLV: <u>T01</u>	Chemist/Date: <u>AZ 05/14/20</u>
PCB	PCB	PCB	PCB	Stop Date/Time <u>120 05/14/20</u>	Other <u>NA</u>	Check In: <u>AZ</u>
PAH	PAH	PAH	PAH	Final Volume(s) <u>20mL</u>	<u>C14</u>	Chemist/Date: <u>AZ 05/14/20</u>
						Balance ID: <u>HRMS-9</u>

Comments:

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

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000953-02RE1	12.28	81.42292	9.9987	20	10-May-20 05:59	AZK			Sediment	1613 Full List
2000953-03RE1	13.98	71.92225	10.0547	20	10-May-20 05:59	AZK			Sediment	1613 Full List
2000995-01	16.51	60.77982	10.0347	20	10-May-20 05:59	AZK			Sediment	1613 Full List
2000995-02	16.23	62.15469	10.0877	20	10-May-20 05:59	AZK			Sediment	1613 Full List
2000995-03	17.1	58.54214	10.0107	20	10-May-20 05:59	AZK			Sediment	1613 Full List
2000995-04	17.92	55.89887	10.0171	20	10-May-20 05:59	AZK			Sediment	1613 Full List
2000995-05	18.77	53.55191	10.0517	20	10-May-20 05:59	AZK			Sediment	1613 Full List
2000995-06	14.69	68.06039	9.9981	20	10-May-20 05:59	AZK			Sediment	1613 Full List
2000995-07	16.02	62.42039	9.9997	20	10-May-20 05:59	AZK			Sediment	1613 Full List
2000995-08	18.83	53.98406	10.1652	20	10-May-20 05:59	AZK			Sediment	1613 Full List
2000995-09	17.07	59.68689	10.1886	20	10-May-20 05:59	AZK			Sediment	1613 Full List
2000995-10	14.89	68.05897	10.1340	20	10-May-20 05:59	AZK			Sediment	1613 Full List
2000995-11	14.24	70.94431	10.1025	20	10-May-20 05:59	AZK			Sediment	1613 Full List
2000995-12	16.14	62.02186	10.0103	20	10-May-20 05:59	AZK			Sediment	1613 Full List
B0E0079-BLK1	10			20	10-May-20 05:59	AZK				QC
B0E0079-BS1	10			20	10-May-20 05:59	AZK				QC
B0E0079-DUP1	14.82			20	10-May-20 05:59	AZK				QC

All bolded data on report verified against written benchsheet by (initial/date) AO 05/17/20

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-4.qld

Last Altered: Thursday, May 07, 2020 7:39:24 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 8:37:08 AM Pacific Daylight Time

GRB 05/07/2020

CT 05/11/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.000	25.991		1.001				0.0880	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.000	31.101		1.001				0.0768	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.000	34.462		1.000				0.0500	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.000	34.558		1.000				0.0543	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.000	34.835		1.000				0.0654	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.898	10.000	38.340		1.000				0.0952	
7	7 OCDD			NO	0.933	10.000	41.321		1.000				0.117	
8	8 2,3,7,8-TCDF			NO	0.787	10.000	25.042		1.001				0.0683	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.000	29.788		1.001				0.0523	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.000	30.789		1.001				0.0479	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.000	33.600		1.000				0.0459	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.000	33.727		1.000				0.0426	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.000	34.316		1.001				0.0469	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.000	35.176		1.000				0.0783	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.000	36.949		1.001				0.0529	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.000	38.925		1.000				0.0823	
17	17 OCDF			NO	0.802	10.000	41.502		1.000				0.107	
18	18 13C-2,3,7,8-TCDD	8.15e5	0.79	NO	1.16	10.000	25.954	25.96	1.026	1.027	162.84	81.4	0.268	
19	19 13C-1,2,3,7,8-PeCDD	6.63e5	0.61	NO	0.847	10.000	31.031	31.08	1.227	1.229	181.44	90.7	0.333	
20	20 13C-1,2,3,4,7,8-HxCDD	4.71e5	1.30	NO	0.750	10.000	34.462	34.45	1.014	1.014	198.13	99.1	0.625	
21	21 13C-1,2,3,6,7,8-HxCDD	5.61e5	1.27	NO	0.963	10.000	34.575	34.56	1.017	1.017	183.73	91.9	0.487	
22	22 13C-1,2,3,7,8,9-HxCDD	4.87e5	1.26	NO	0.838	10.000	34.843	34.83	1.025	1.025	183.30	91.7	0.560	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.32e5	1.04	NO	0.641	10.000	38.330	38.33	1.128	1.128	163.33	81.7	0.429	
24	24 13C-OCDD	4.81e5	0.85	NO	0.586	10.000	41.320	41.32	1.216	1.216	258.99	64.7	0.381	
25	25 13C-2,3,7,8-TCDF	9.91e5	0.78	NO	1.03	10.000	25.016	25.02	0.989	0.989	151.11	75.6	0.360	
26	26 13C-1,2,3,7,8-PeCDF	9.74e5	1.59	NO	0.845	10.000	29.724	29.77	1.176	1.177	181.92	91.0	0.817	
27	27 13C-2,3,4,7,8-PeCDF	9.13e5	1.57	NO	0.814	10.000	30.713	30.76	1.215	1.216	177.04	88.5	0.848	
28	28 13C-1,2,3,4,7,8-HxCDF	6.04e5	0.50	NO	1.00	10.000	33.603	33.60	0.989	0.989	189.54	94.8	0.559	
29	29 13C-1,2,3,6,7,8-HxCDF	7.29e5	0.49	NO	1.14	10.000	33.725	33.72	0.992	0.992	202.31	101	0.494	
30	30 13C-2,3,4,6,7,8-HxCDF	6.20e5	0.52	NO	1.02	10.000	34.293	34.28	1.009	1.009	191.41	95.7	0.549	
31	31 13C-1,2,3,7,8,9-HxCDF	4.62e5	0.51	NO	0.845	10.000	35.183	35.18	1.035	1.035	172.70	86.3	0.665	

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-4.qld

Last Altered: Thursday, May 07, 2020 7:39:24 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 8:37:08 AM Pacific Daylight Time

Name: 200506R2_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.50e5	0.44	NO	0.771	10.000	36.913	36.91	1.086	1.086	183.87	91.9	0.643	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.31e5	0.42	NO	0.482	10.000	38.921	38.92	1.145	1.145	151.38	75.7	1.03	
34	34 13C-OCDF	5.27e5	0.92	NO	0.669	10.000	41.490	41.50	1.221	1.221	248.77	62.2	0.418	
35	35 37Cl-2,3,7,8-TCDD	3.06e5			1.10	10.000	25.984	25.98	1.028	1.027	64.593	80.7	0.0982	
36	36 13C-1,2,3,4-TCDD	8.63e5	0.82	NO	1.00	10.000	25.350	25.29	1.000	1.000	200.00	100	0.310	
37	37 13C-1,2,3,4-TCDF	1.27e6	0.79	NO	1.00	10.000	23.560	23.50	1.000	1.000	200.00	100	0.372	
38	38 13C-1,2,3,4,6,9-HxCDF	6.34e5	0.51	NO	1.00	10.000	34.000	33.98	1.000	1.000	200.00	100	0.562	
39	39 Total Tetra-Dioxins				0.947	10.000	24.620		0.000				0.0453	
40	40 Total Penta-Dioxins				0.942	10.000	29.960		0.000				0.0294	
41	41 Total Hexa-Dioxins				0.915	10.000	33.635		0.000				0.0299	
42	42 Total Hepta-Dioxins				0.898	10.000	37.640		0.000				0.0508	
43	43 Total Tetra-Furans				0.787	10.000	23.610		0.000				0.0328	
44	44 1st Func. Penta-Furans				0.910	10.000	27.090		0.000				0.0174	
45	45 Total Penta-Furans				0.910	10.000	29.275		0.000				0.0278	
46	46 Total Hexa-Furans				0.922	10.000	33.555		0.000				0.0301	
47	47 Total Hepta-Furans				0.871	10.000	37.835		0.000				0.0358	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-4.qld

Last Altered: Thursday, May 07, 2020 7:39:24 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 8:37:08 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

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

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-4.qld

Last Altered: Thursday, May 07, 2020 7:39:24 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 8:37:08 AM Pacific Daylight Time

Name: 200506R2_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

Dataset: Untitled

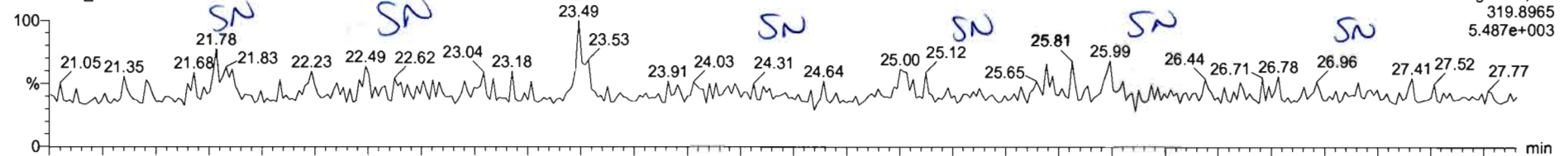
Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time
Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

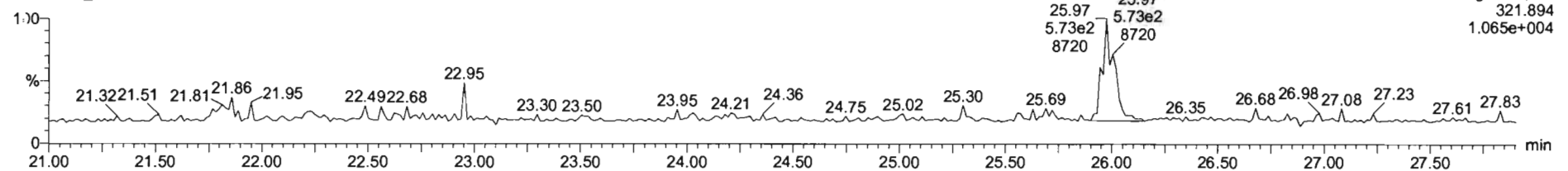
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2,3,7,8-TCDD

200506R2_4

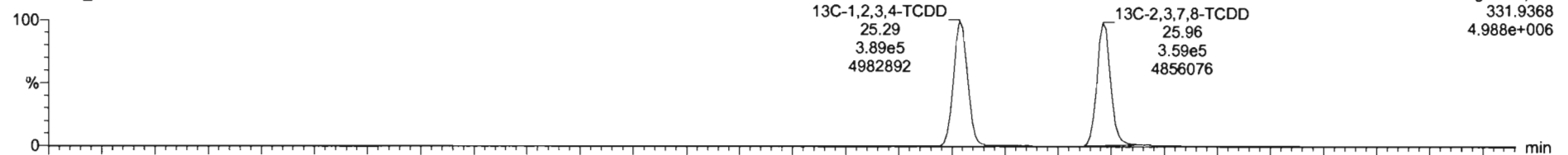


200506R2_4

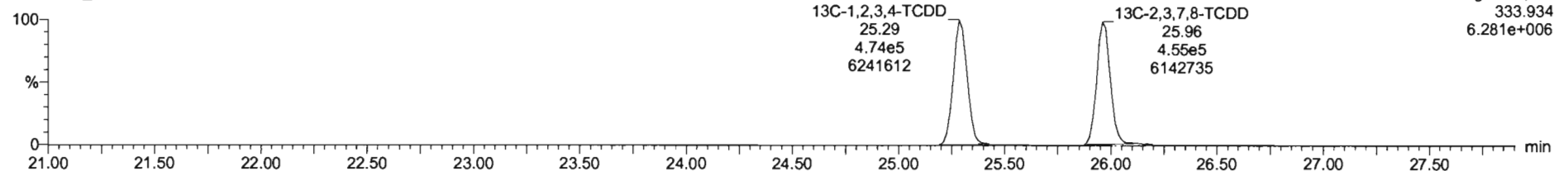


13C-2,3,7,8-TCDD

200506R2_4



200506R2_4



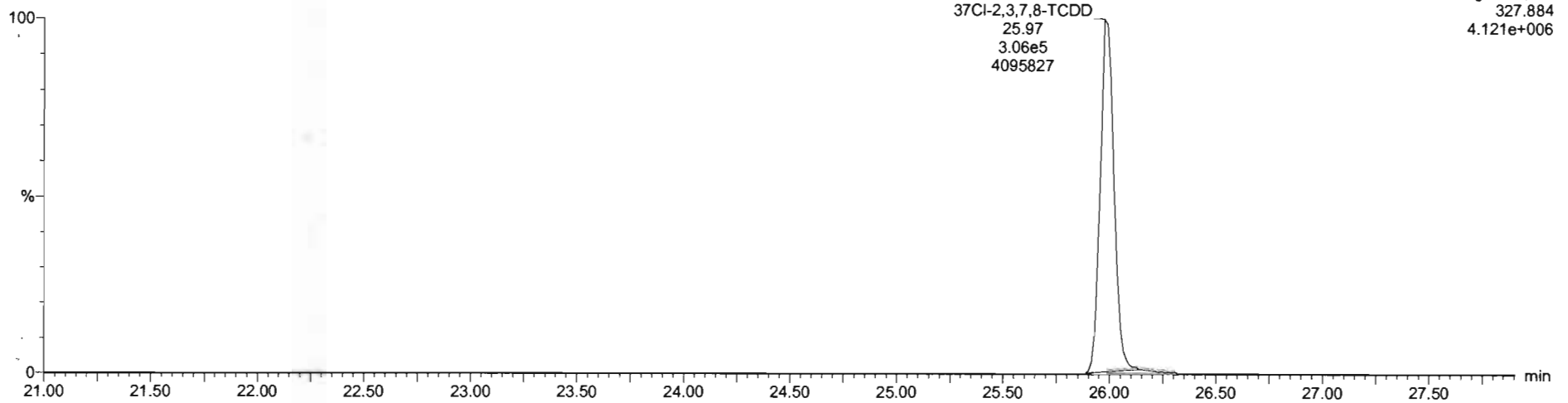
Dataset: Untitled

Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time
Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank

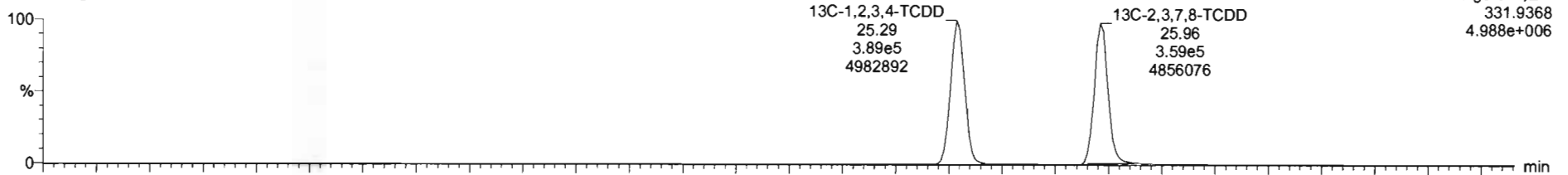
37Cl-2,3,7,8-TCDD

200506R2_4

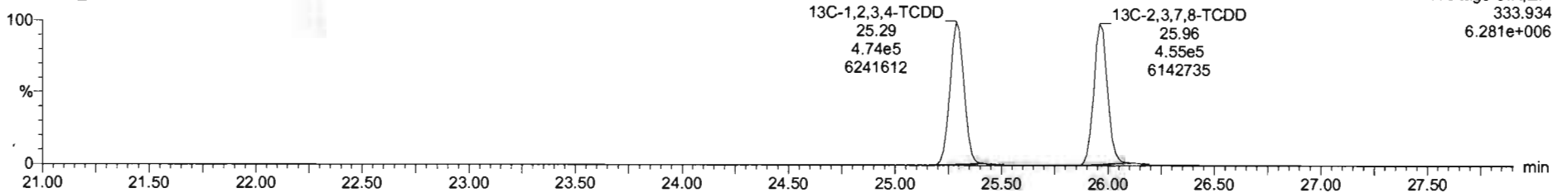


13C-1,2,3,4-TCDD

200506R2_4



200506R2_4



Dataset: Untitled

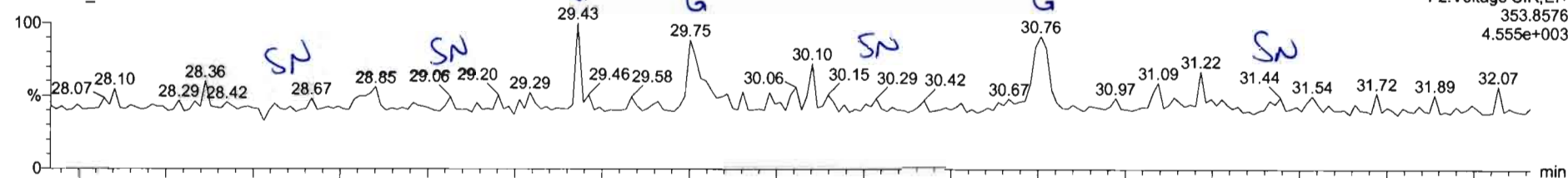
Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank

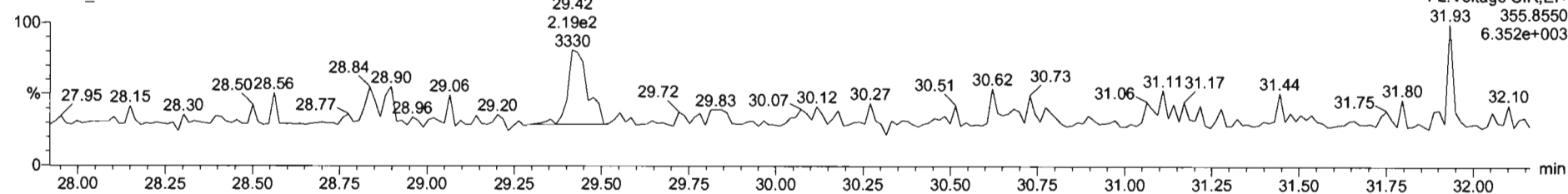
1,2,3,7,8-PeCDD

200506R2_4



F2:Voltage SIR,EI+
353.8576
4.555e+003

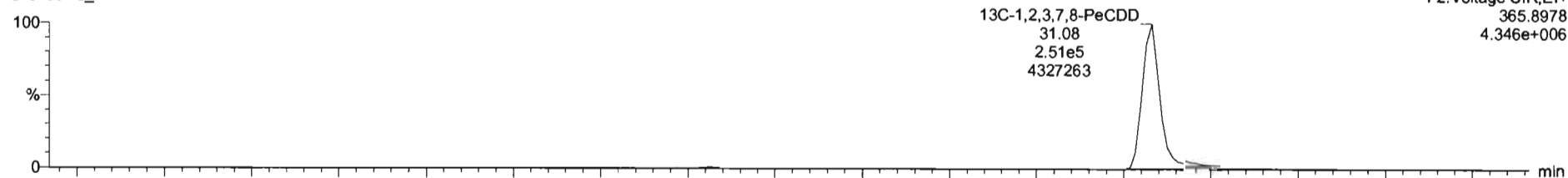
200506R2_4



F2:Voltage SIR,EI+
355.8550
6.352e+003

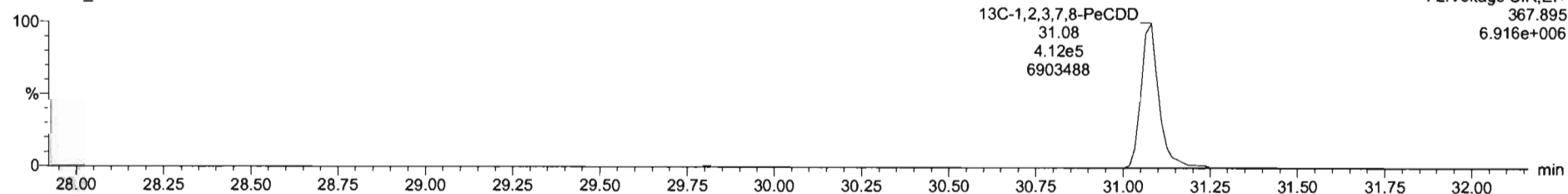
13C-1,2,3,7,8-PeCDD

200506R2_4



F2:Voltage SIR,EI+
365.8978
4.346e+006

200506R2_4



F2:Voltage SIR,EI+
367.895
6.916e+006

Dataset: Untitled

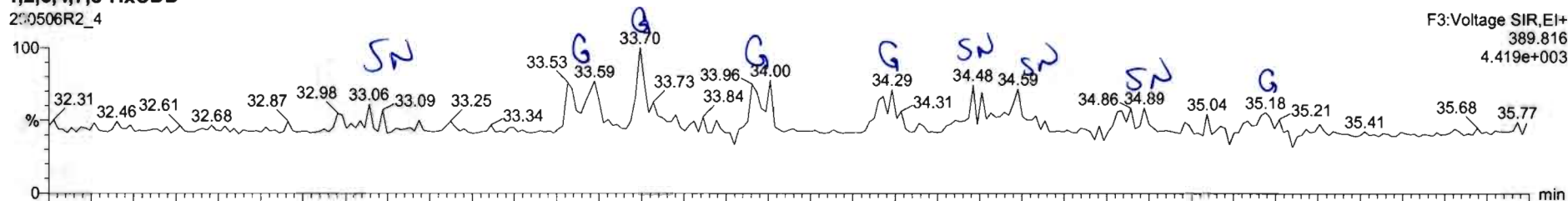
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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

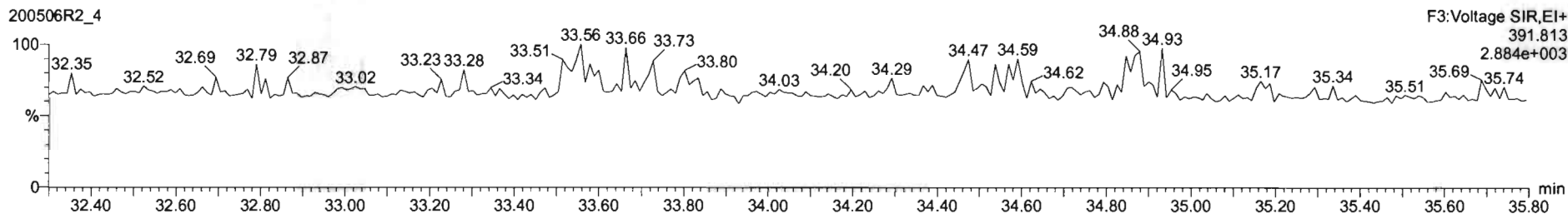
Name: 200506R2_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank

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

200506R2_4

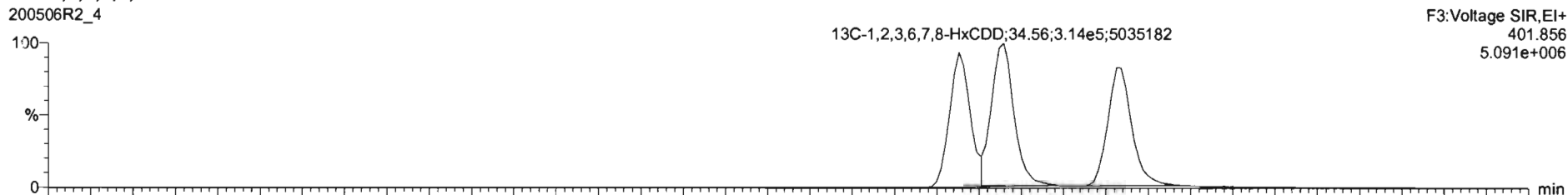


200506R2_4

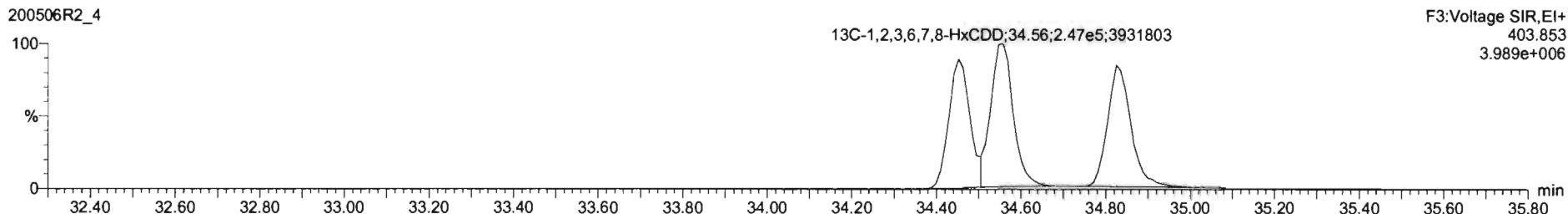


13C-1,2,3,4,7,8-HxCDD

200506R2_4



200506R2_4



Dataset: Untitled

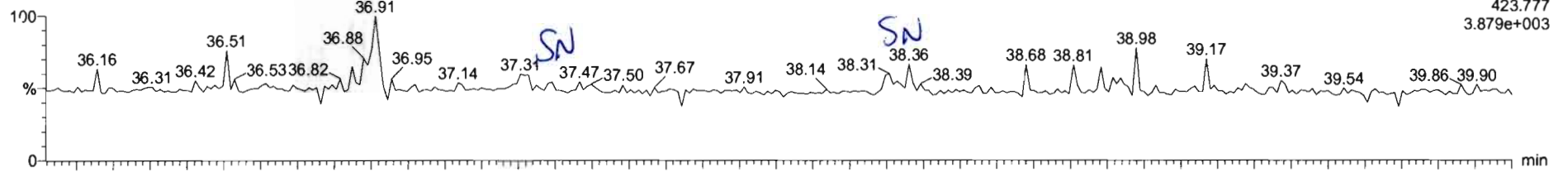
Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time
Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank

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

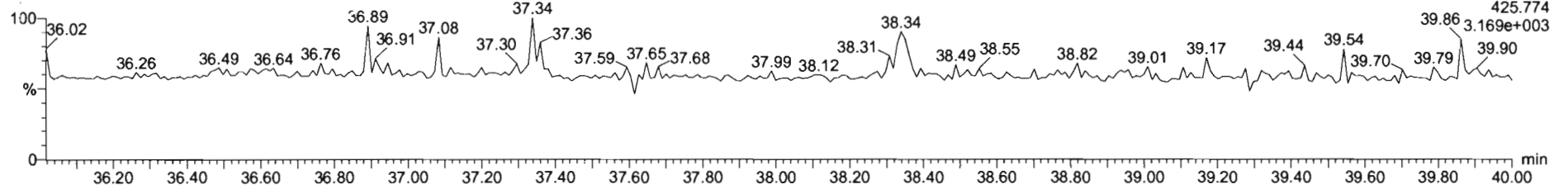
200506R2_4

F4:Voltage SIR,EI+
423.777
3.879e+003



200506R2_4

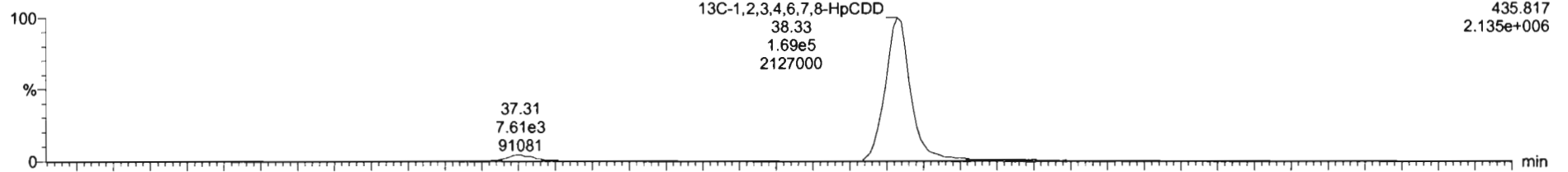
F4:Voltage SIR,EI+
425.774
3.169e+003



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

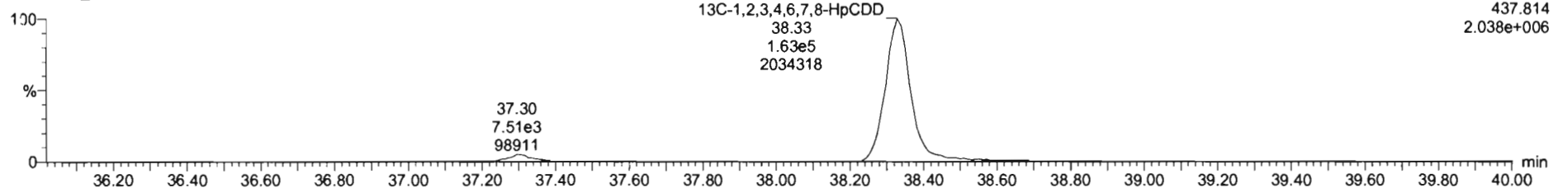
200506R2_4

F4:Voltage SIR,EI+
435.817
2.135e+006



200506R2_4

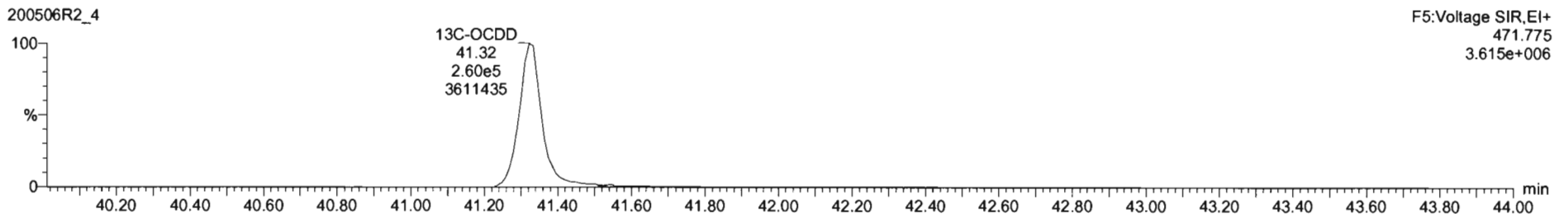
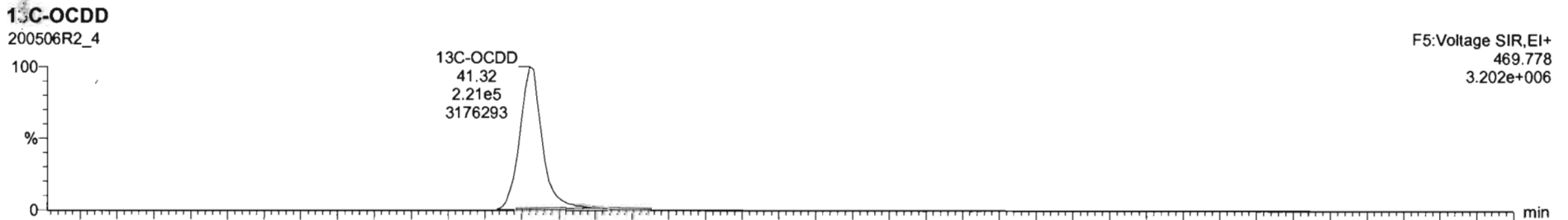
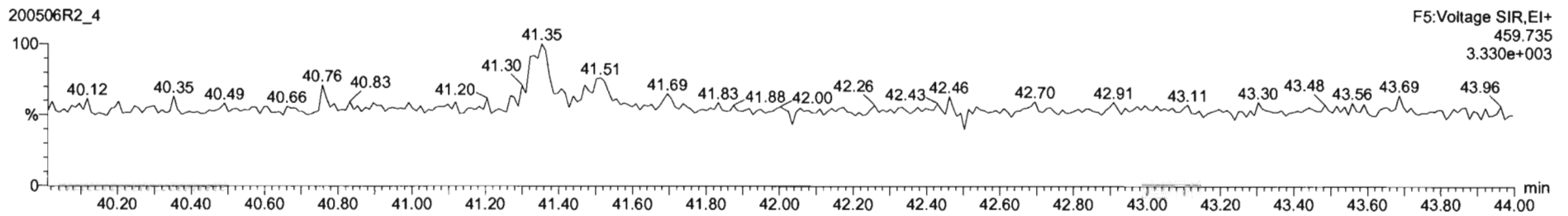
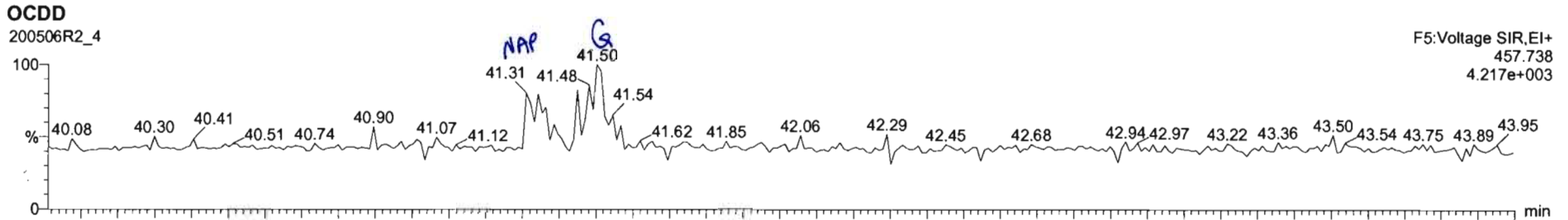
F4:Voltage SIR,EI+
437.814
2.038e+006



Dataset: Untitled

Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time
Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank

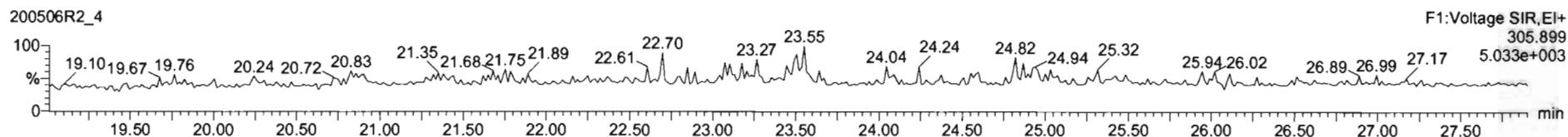
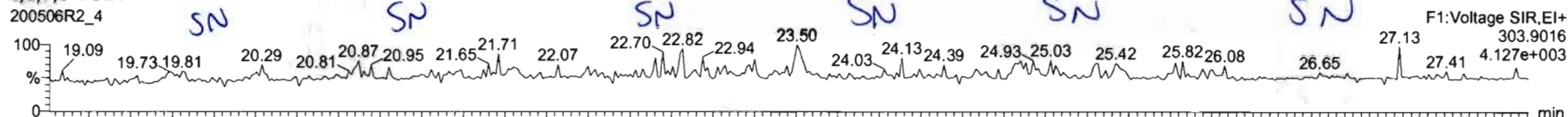


Dataset: Untitled

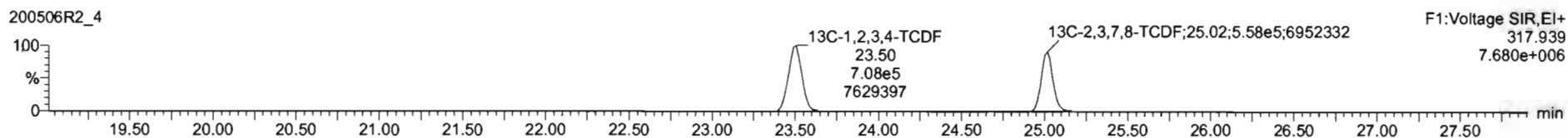
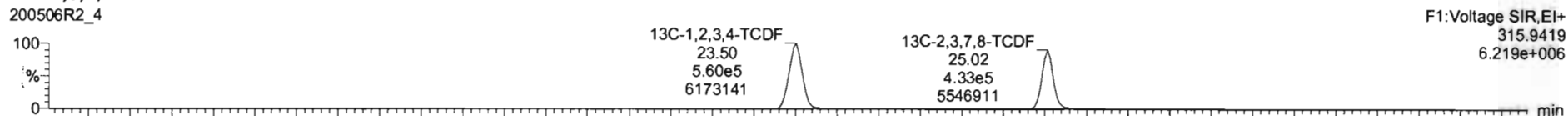
Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time
Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank

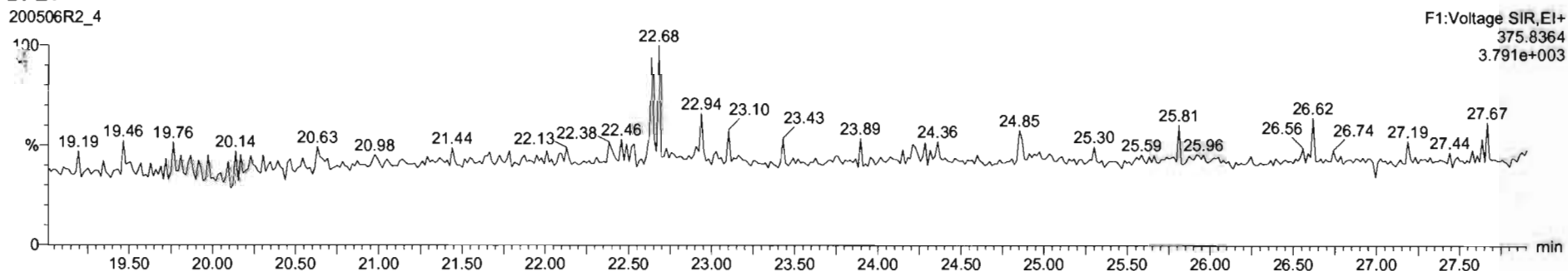
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

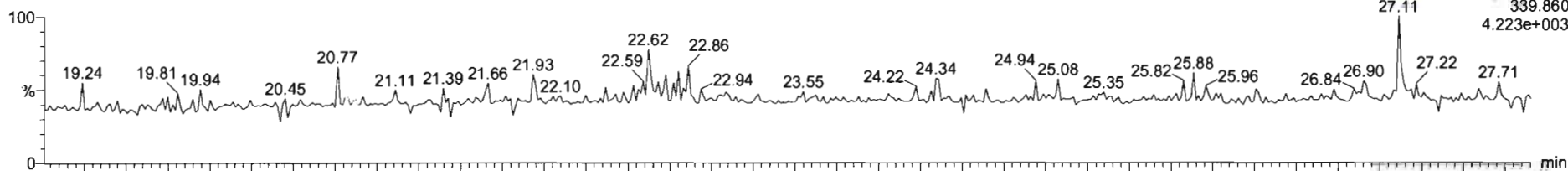
Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

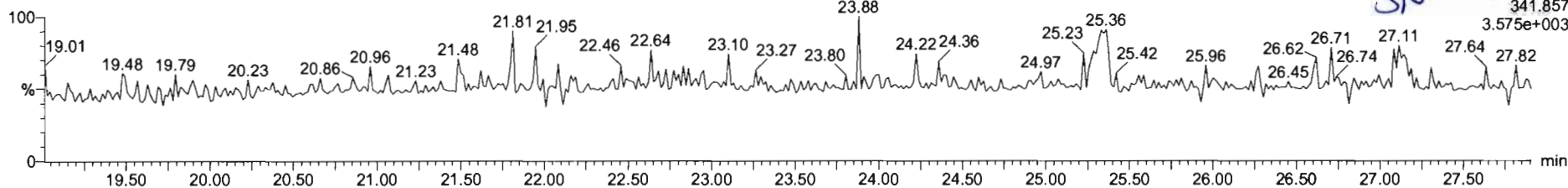
Name: 200506R2_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

200506R2_4

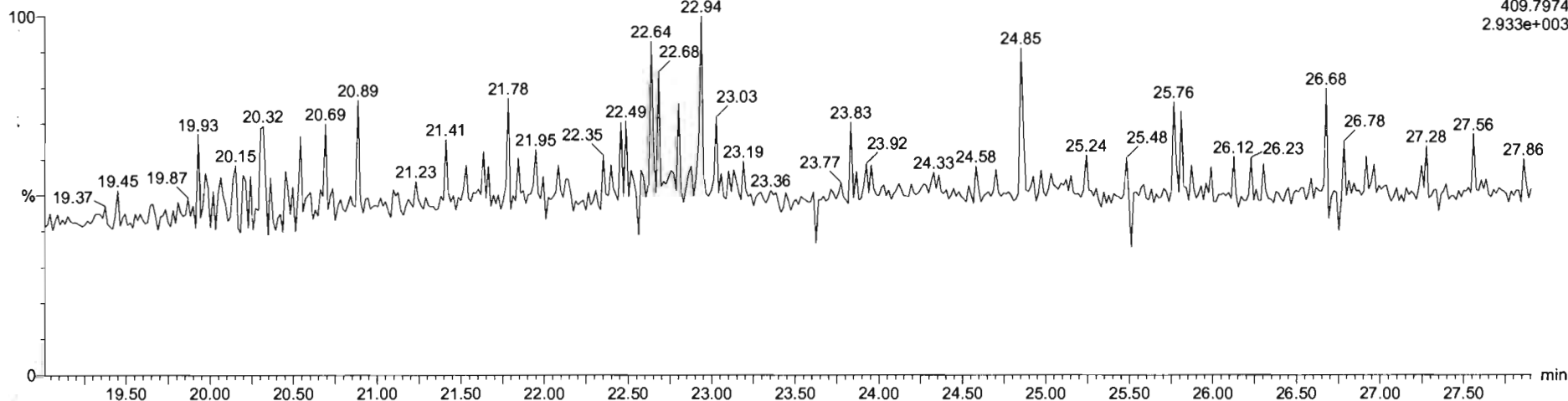


200506R2_4



DPE6

200506R2_4

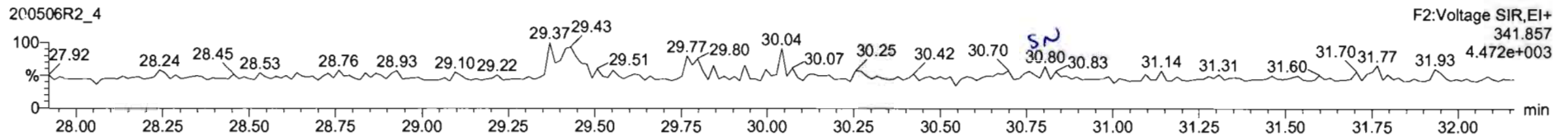
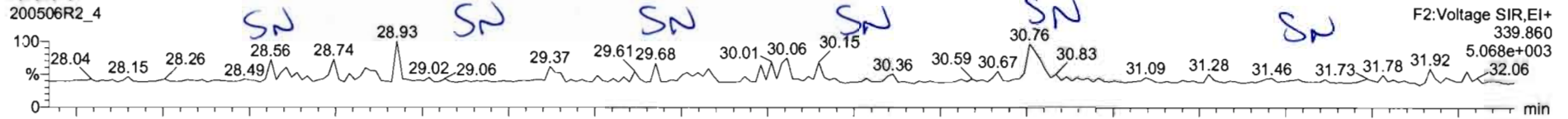


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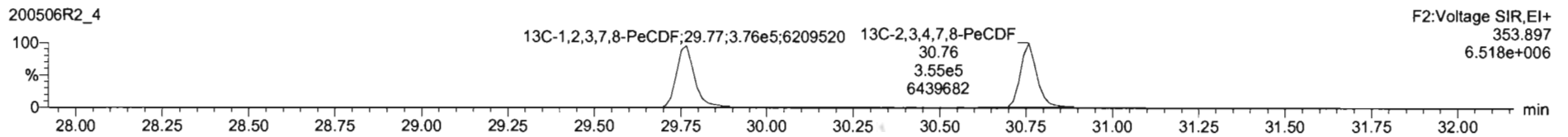
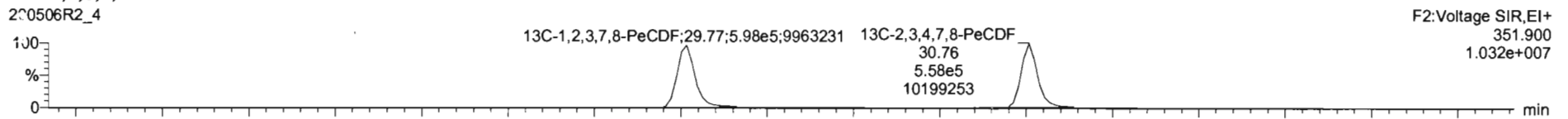
Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time
Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank

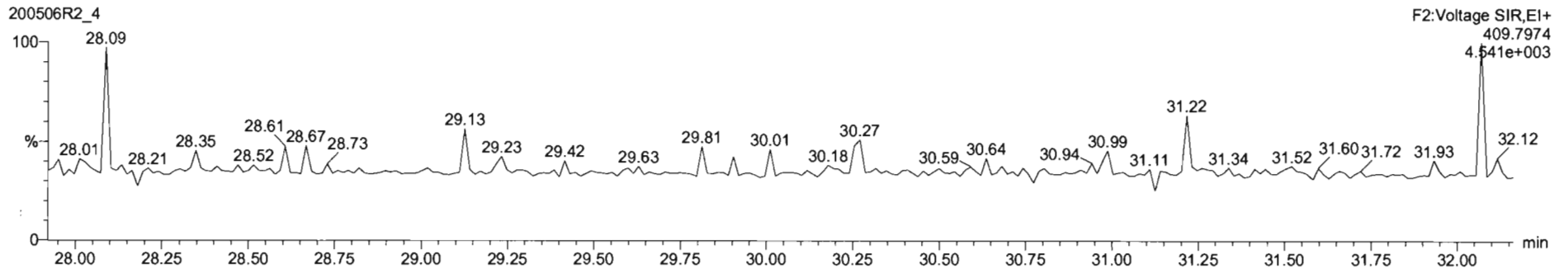
1,2,3,7,8-PeCDF



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



DPE2

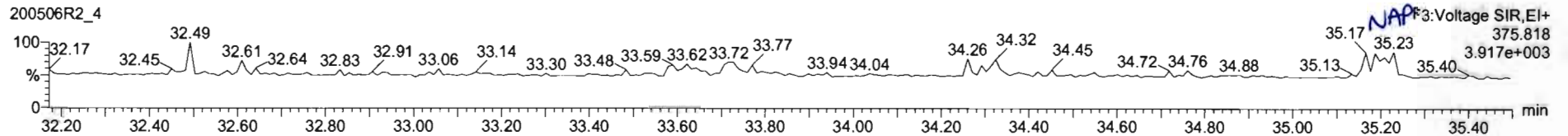
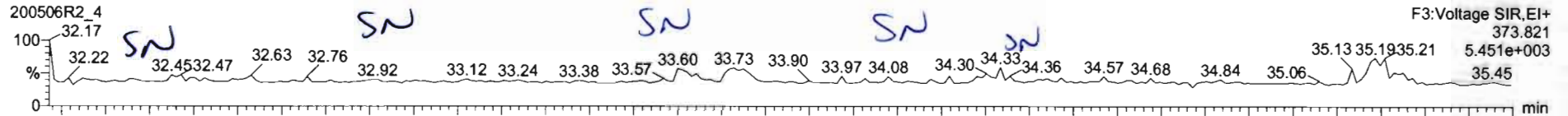


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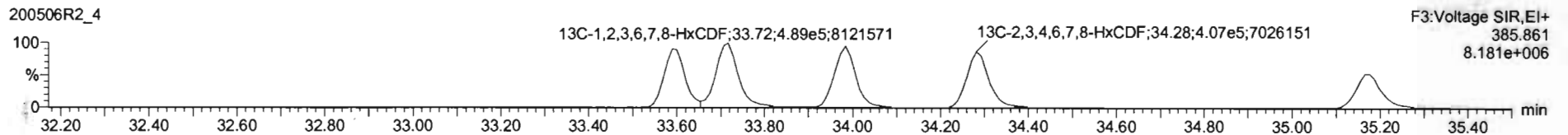
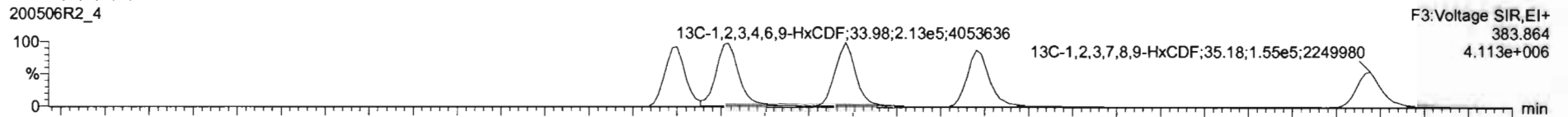
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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank

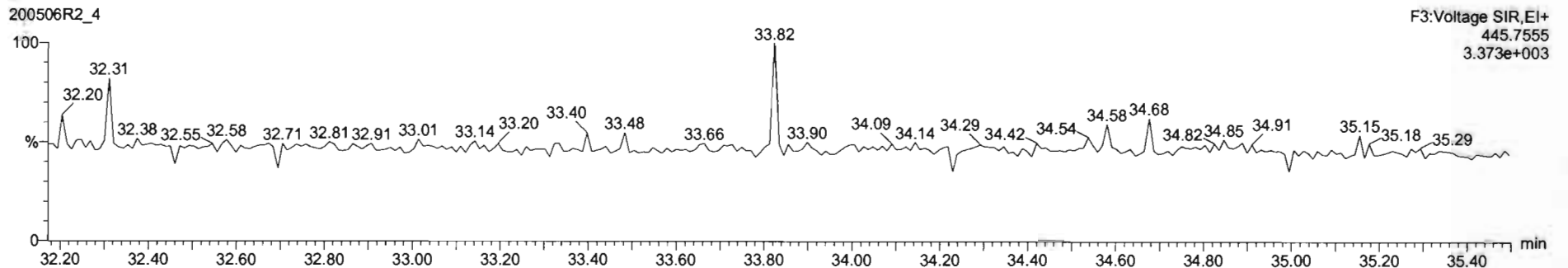
1,2,3,4,7,8-HxCDF



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



DPE3

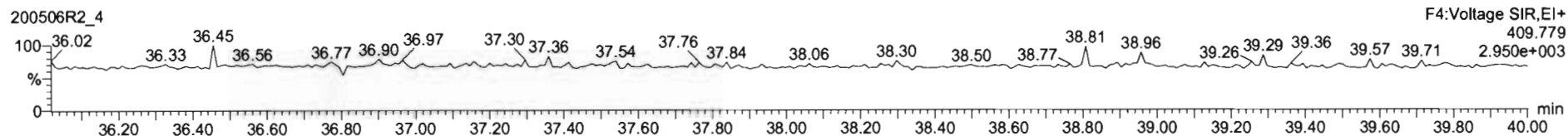
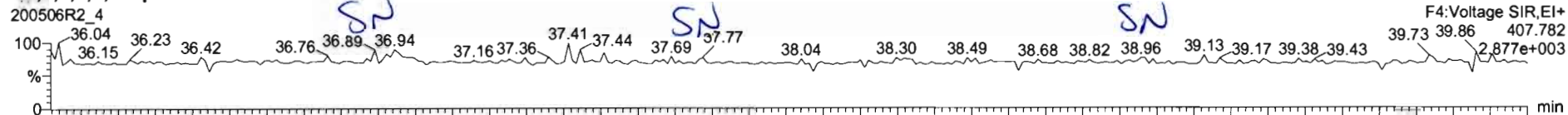


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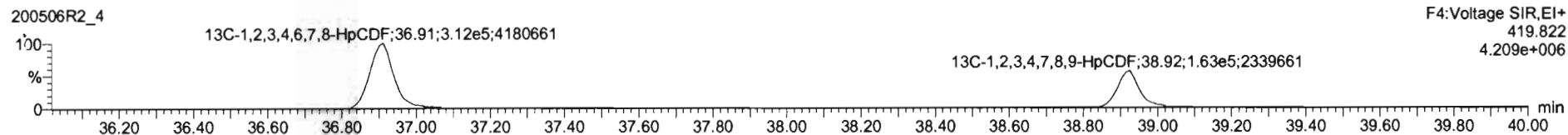
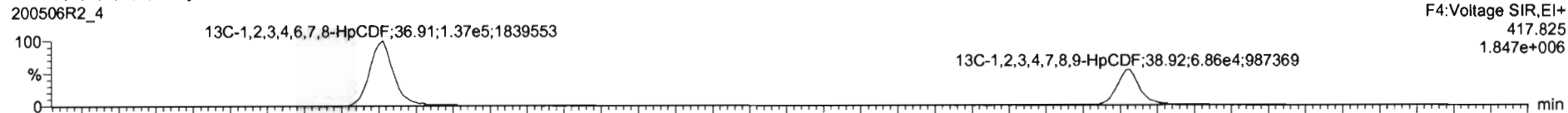
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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank

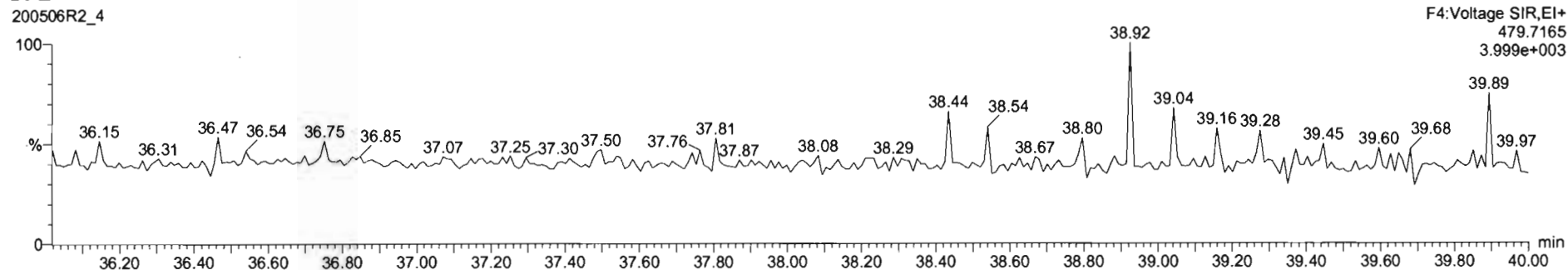
1,2,3,4,6,7,8-HpCDF



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



DPE4



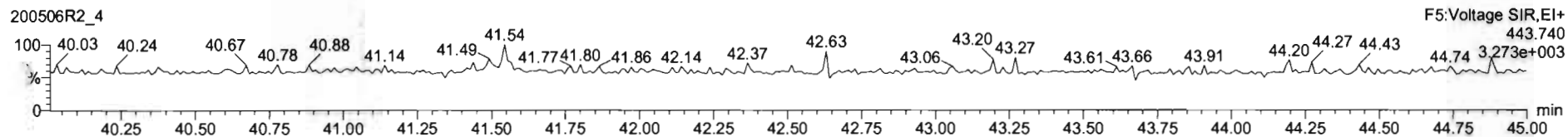
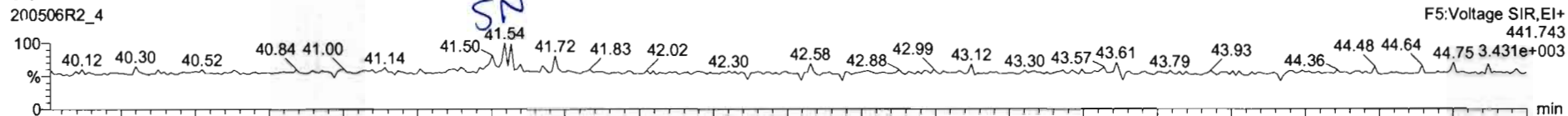
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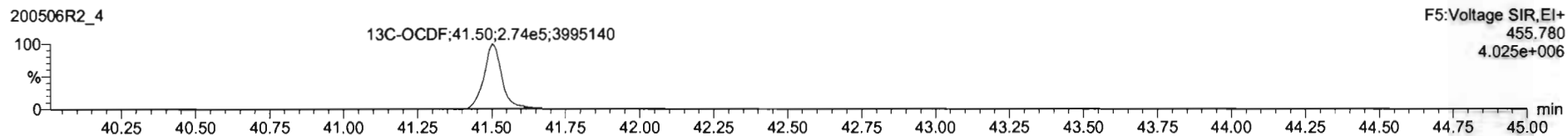
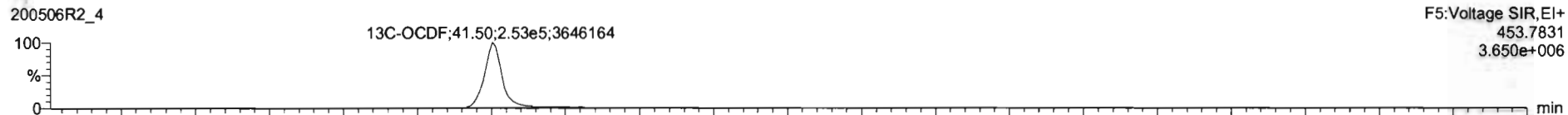
Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

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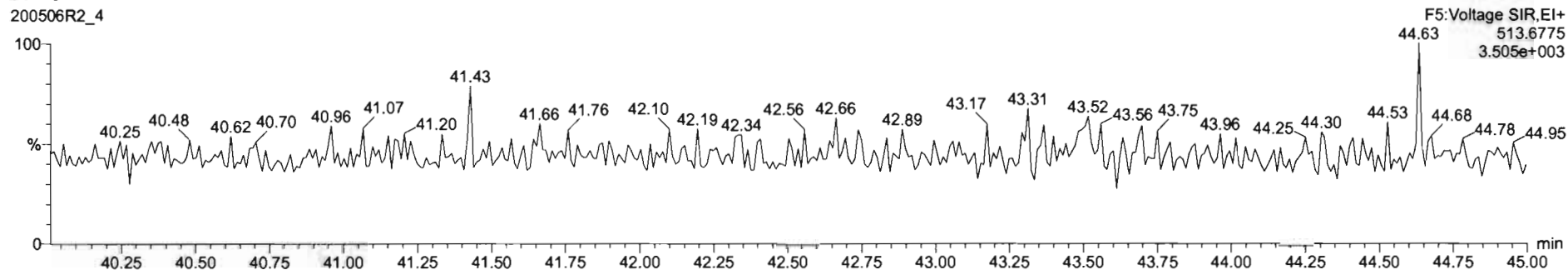
OCDF



13C-OCDF



DPE5

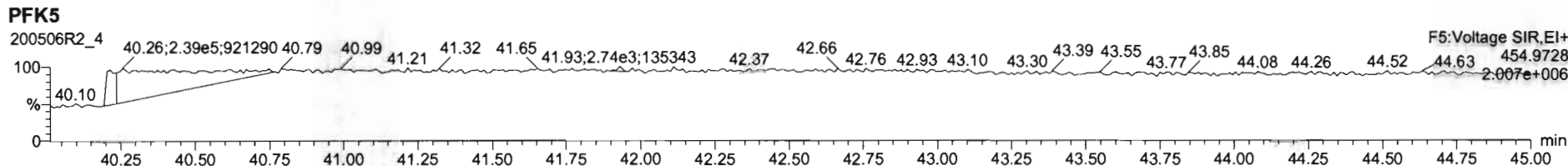
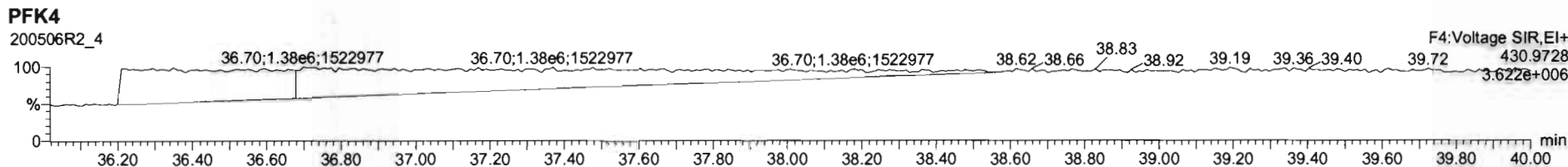
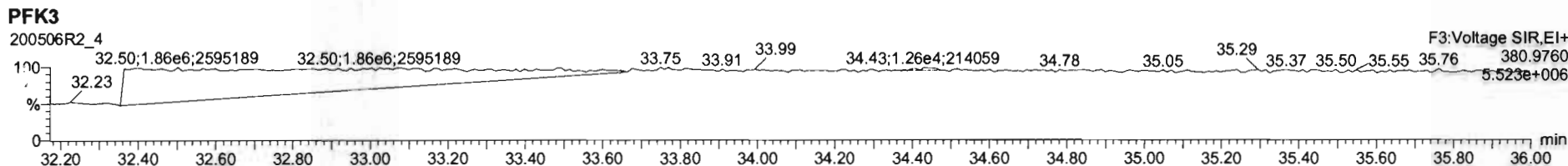
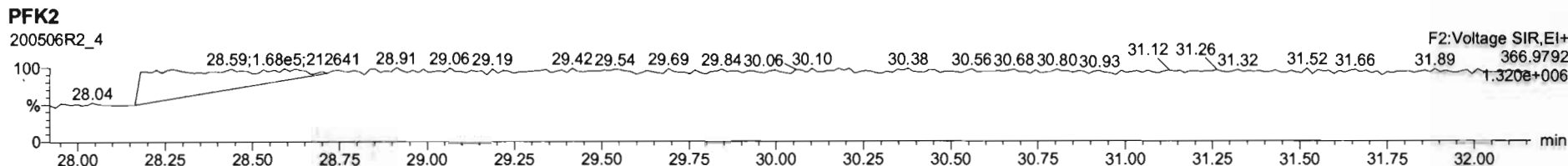
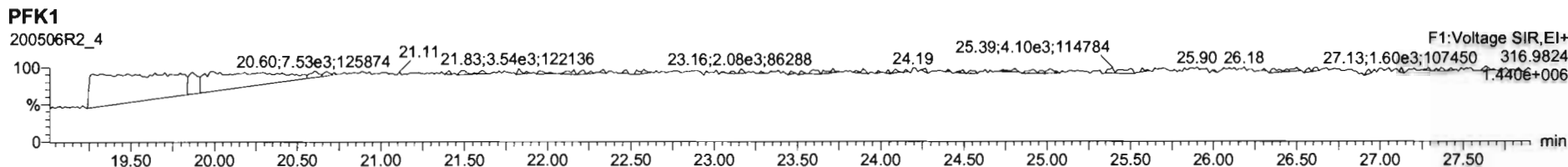


Dataset: Untitled

Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200506R2\200506R2-2.qld

Last Altered: Thursday, May 07, 2020 8:28:17 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 8:28:59 AM Pacific Daylight Time

GPB 05/07/2020

CT 05/11/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2_2, Date: 06-May-2020, Time: 14:23:12, ID: B0D0323-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	5.19e4	0.76	NO	0.947	10.000	26.006	25.99	1.001	1.001	17.564		0.164	17.6
2	2 1,2,3,7,8-PeCDD	2.24e5	0.62	NO	0.942	10.000	31.101	31.09	1.001	1.000	89.397		0.249	89.4
3	3 1,2,3,4,7,8-HxCDD	1.96e5	1.23	NO	1.06	10.000	34.462	34.46	1.000	1.000	93.196		0.281	93.2
4	4 1,2,3,6,7,8-HxCDD	2.16e5	1.24	NO	0.915	10.000	34.559	34.57	1.000	1.000	96.377		0.302	96.4
5	5 1,2,3,7,8,9-HxCDD	1.90e5	1.21	NO	0.915	10.000	34.845	34.85	1.000	1.000	95.446		0.355	95.4
6	6 1,2,3,4,6,7,8-HpCDD	1.30e5	1.02	NO	0.898	10.000	38.340	38.35	1.000	1.001	96.092		0.379	96.1
7	7 OCDD	2.01e5	0.86	NO	0.933	10.000	41.322	41.33	1.000	1.000	195.73		0.348	196
8	8 2,3,7,8-TCDF	5.56e4	0.76	NO	0.787	10.000	25.042	25.05	1.001	1.001	18.941		0.157	18.9
9	9 1,2,3,7,8-PeCDF	3.25e5	1.59	NO	0.910	10.000	29.788	29.78	1.001	1.001	94.002		0.330	94.0
10	10 2,3,4,7,8-PeCDF	3.30e5	1.54	NO	0.966	10.000	30.789	30.77	1.001	1.001	91.828		0.317	91.8
11	11 1,2,3,4,7,8-HxCDF	2.24e5	1.22	NO	0.878	10.000	33.600	33.61	1.000	1.000	101.24		0.435	101
12	12 1,2,3,6,7,8-HxCDF	2.77e5	1.20	NO	0.874	10.000	33.727	33.74	1.000	1.001	103.67		0.391	104
13	13 2,3,4,6,7,8-HxCDF	2.58e5	1.20	NO	0.922	10.000	34.326	34.30	1.001	1.000	103.62		0.435	104
14	14 1,2,3,7,8,9-HxCDF	1.72e5	1.27	NO	0.864	10.000	35.176	35.19	1.000	1.000	100.62		0.749	101
15	15 1,2,3,4,6,7,8-HpCDF	1.77e5	1.02	NO	0.871	10.000	36.949	36.92	1.001	1.000	102.77		0.739	103
16	16 1,2,3,4,7,8,9-HpCDF	1.06e5	1.02	NO	1.01	10.000	38.915	38.94	1.000	1.001	101.45		1.10	101
17	17 OCDF	1.99e5	0.87	NO	0.802	10.000	41.503	41.51	1.000	1.000	199.24		0.440	199
18	18 13C-2,3,7,8-TCDD	6.24e5	0.77	NO	1.16	10.000	25.954	25.98	1.026	1.027	112.33	56.2	0.204	
19	19 13C-1,2,3,7,8-PeCDD	5.31e5	0.62	NO	0.847	10.000	31.031	31.08	1.227	1.229	130.91	65.5	0.290	
20	20 13C-1,2,3,4,7,8-HxCDD	3.96e5	1.27	NO	0.750	10.000	34.463	34.45	1.014	1.014	146.53	73.3	0.590	
21	21 13C-1,2,3,6,7,8-HxCDD	4.91e5	1.28	NO	0.963	10.000	34.575	34.56	1.017	1.017	141.50	70.7	0.459	
22	22 13C-1,2,3,7,8,9-HxCDD	4.36e5	1.23	NO	0.838	10.000	34.844	34.83	1.025	1.025	144.43	72.2	0.528	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.02e5	0.99	NO	0.641	10.000	38.331	38.33	1.128	1.128	130.92	65.5	0.538	
24	24 13C-OCDD	4.40e5	0.90	NO	0.586	10.000	41.321	41.32	1.216	1.216	208.61	52.2	0.300	
25	25 13C-2,3,7,8-TCDF	7.46e5	0.78	NO	1.03	10.000	25.015	25.02	0.989	0.989	101.35	50.7	0.317	
26	26 13C-1,2,3,7,8-PeCDF	7.59e5	1.60	NO	0.845	10.000	29.724	29.77	1.176	1.177	126.23	63.1	0.642	
27	27 13C-2,3,4,7,8-PeCDF	7.44e5	1.61	NO	0.814	10.000	30.712	30.76	1.215	1.216	128.35	64.2	0.666	
28	28 13C-1,2,3,4,7,8-HxCDF	5.03e5	0.51	NO	1.00	10.000	33.603	33.60	0.989	0.989	139.14	69.6	0.524	
29	29 13C-1,2,3,6,7,8-HxCDF	6.12e5	0.51	NO	1.14	10.000	33.726	33.72	0.992	0.992	149.45	74.7	0.463	
30	30 13C-2,3,4,6,7,8-HxCDF	5.39e5	0.52	NO	1.02	10.000	34.293	34.29	1.009	1.009	146.56	73.3	0.515	
31	31 13C-1,2,3,7,8,9-HxCDF	3.96e5	0.48	NO	0.845	10.000	35.184	35.18	1.035	1.035	130.15	65.1	0.623	

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-2.qld

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Printed: Thursday, May 07, 2020 8:28:59 AM Pacific Daylight Time

Name: 200506R2_2, Date: 06-May-2020, Time: 14:23:12, ID: B0D0323-BS1 OPR 10, Description: OPR

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.95e5	0.43	NO	0.771	10.000	36.913	36.91	1.086	1.086	142.19	71.1	0.485	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.06e5	0.43	NO	0.482	10.000	38.922	38.92	1.145	1.145	118.57	59.3	0.775	
34	34 13C-OCDF	4.99e5	0.85	NO	0.669	10.000	41.491	41.50	1.221	1.221	207.40	51.8	0.349	
35	35 37Cl-2,3,7,8-TCDD	2.47e5			1.10	10.000	25.984	25.99	1.028	1.028	47.024	58.8	0.0514	
36	36 13C-1,2,3,4-TCDD	9.58e5	0.79	NO	1.00	10.000	25.350	25.29	1.000	1.000	200.00	100	0.237	
37	37 13C-1,2,3,4-TCDF	1.42e6	0.78	NO	1.00	10.000	23.560	23.50	1.000	1.000	200.00	100	0.328	
38	38 13C-1,2,3,4,6,9-HxCDF	7.20e5	0.51	NO	1.00	10.000	34.000	33.98	1.000	1.000	200.00	100	0.526	

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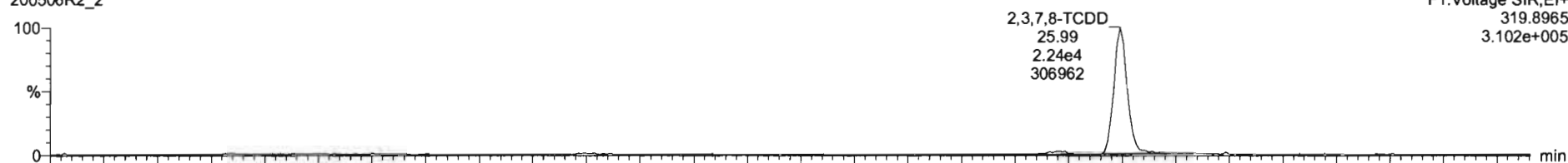
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Printed: Thursday, May 07, 2020 7:39:06 AM Pacific Daylight Time

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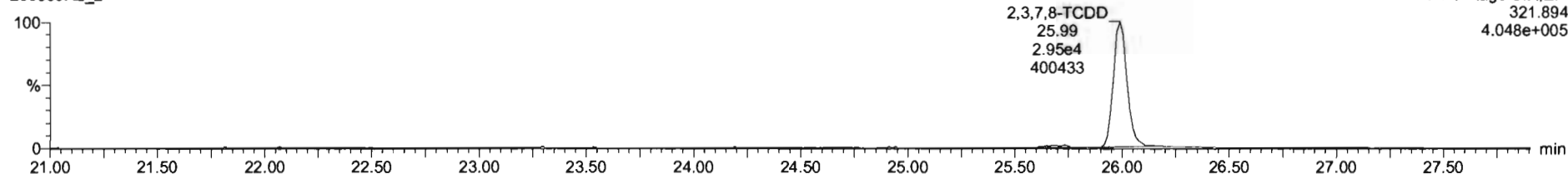
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2,3,7,8-TCDD

200506R2_2

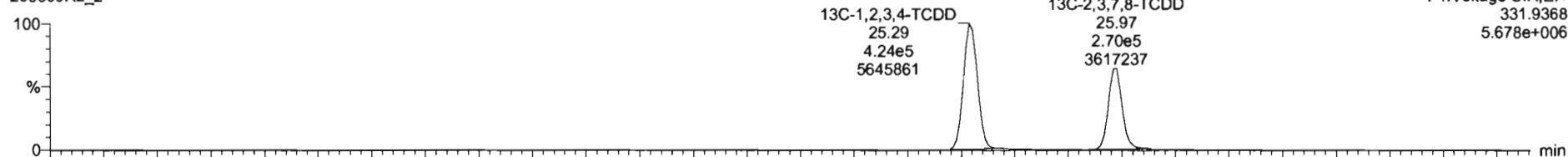


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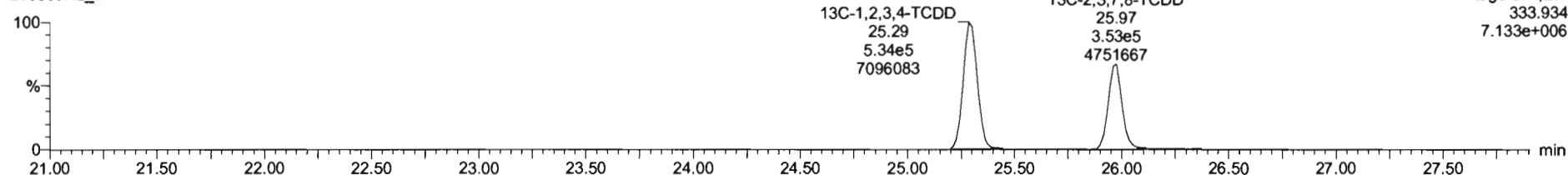


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200506R2_2



200506R2_2



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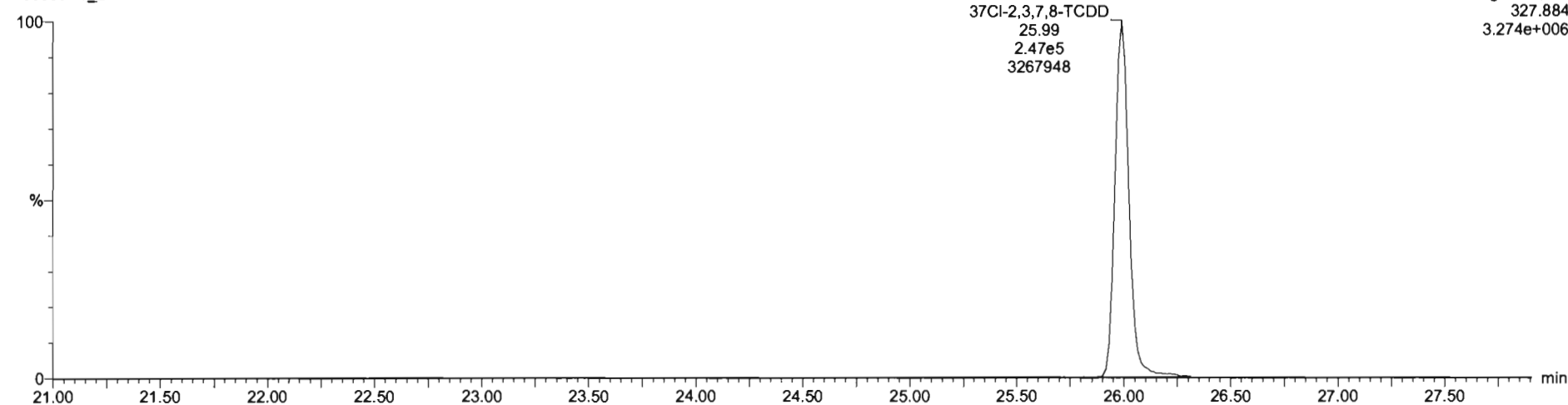
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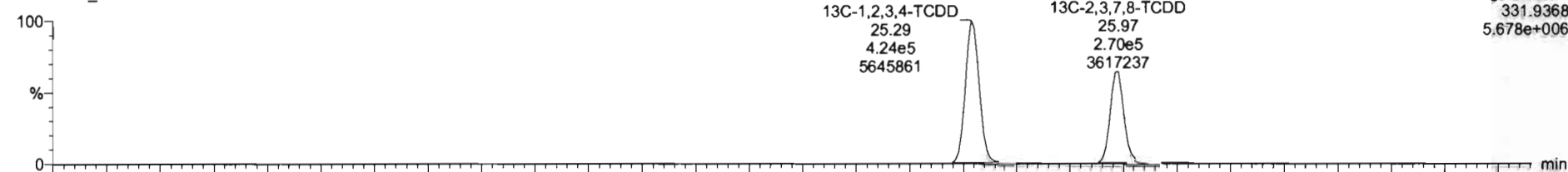
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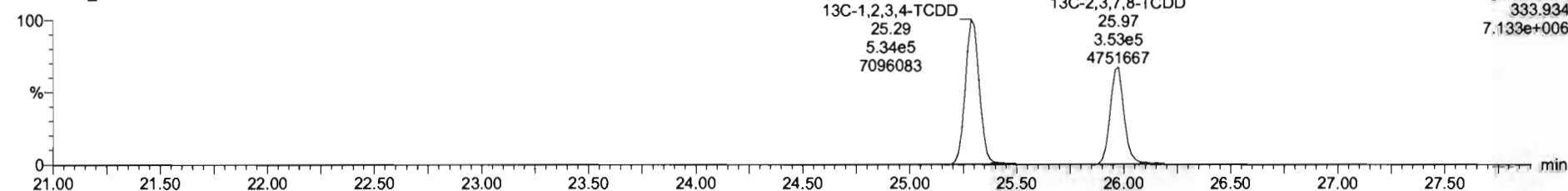


13C-1,2,3,4-TCDD

200506R2_2



200506R2_2



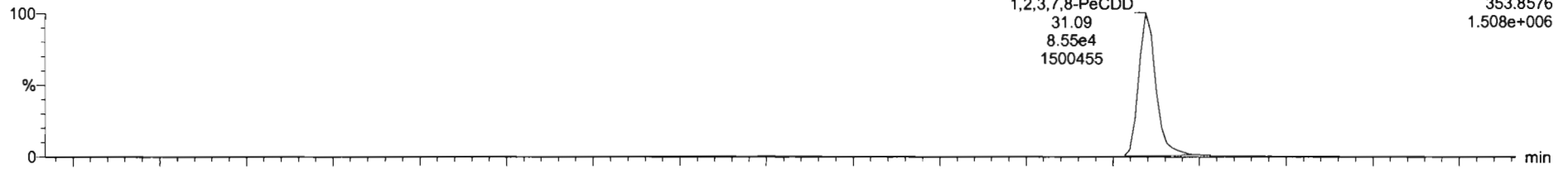
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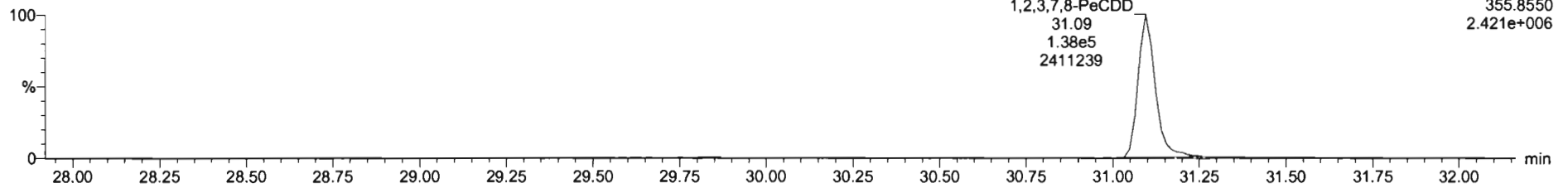
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1,2,3,7,8-PeCDD

200506R2_2

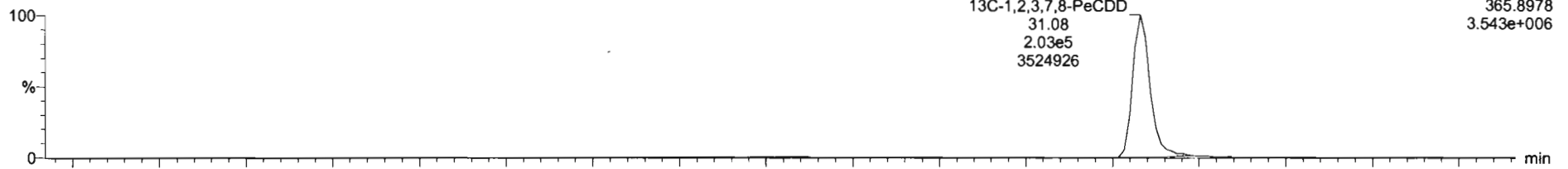


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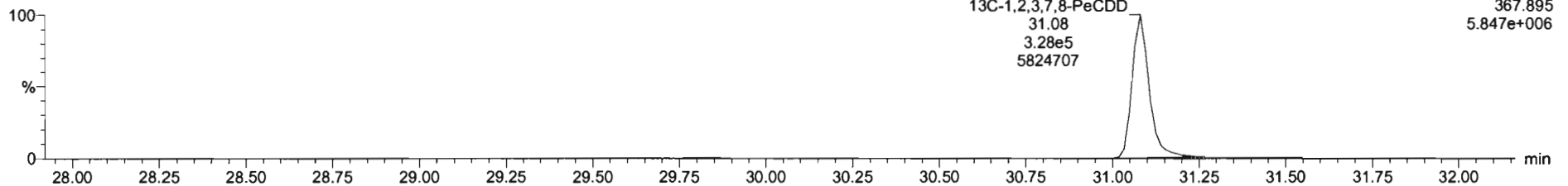


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200506R2_2



200506R2_2



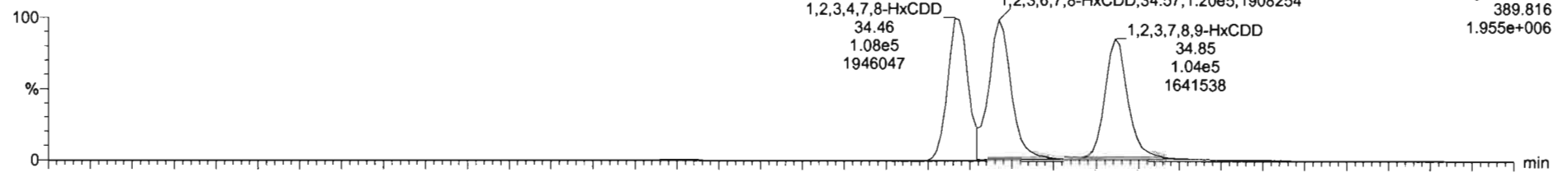
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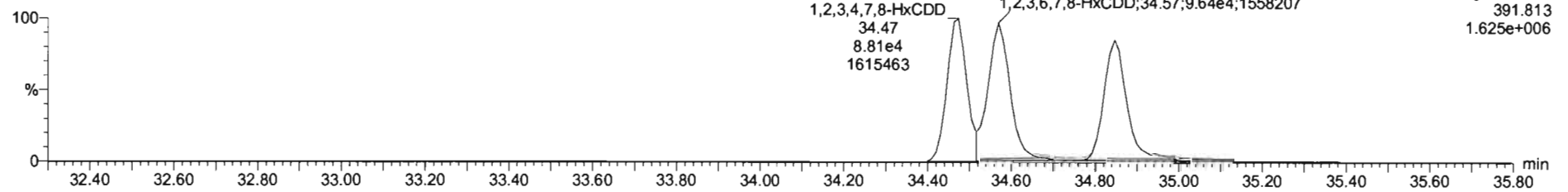
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1,2,3,4,7,8-HxCDD

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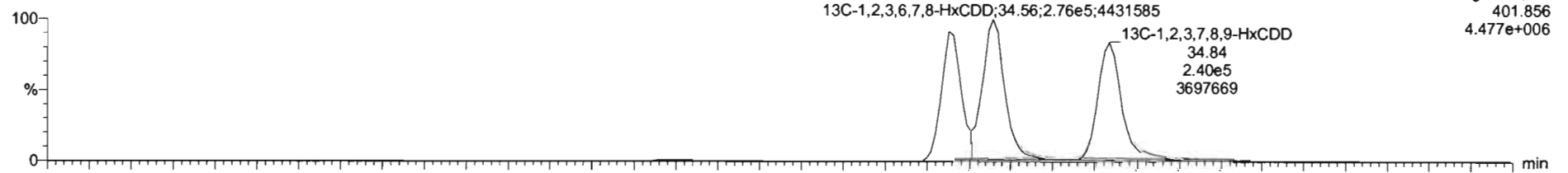


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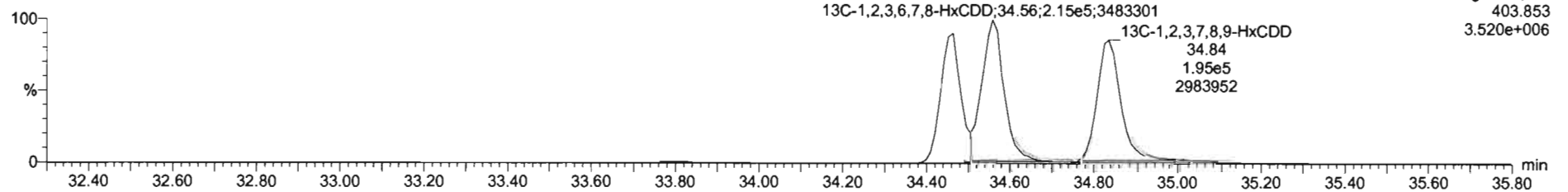


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200506R2_2



200506R2_2



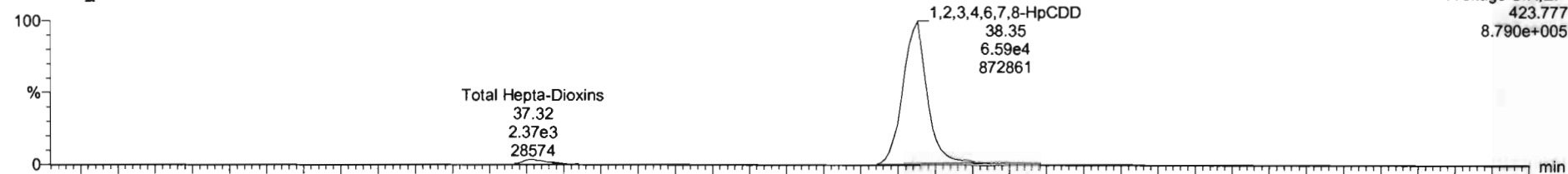
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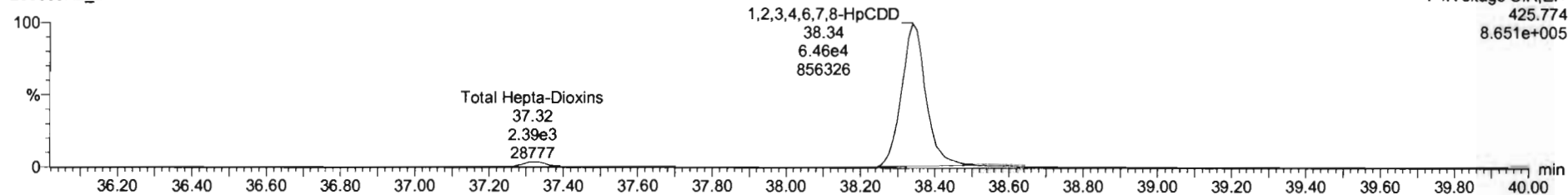
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1,2,3,4,6,7,8-HpCDD

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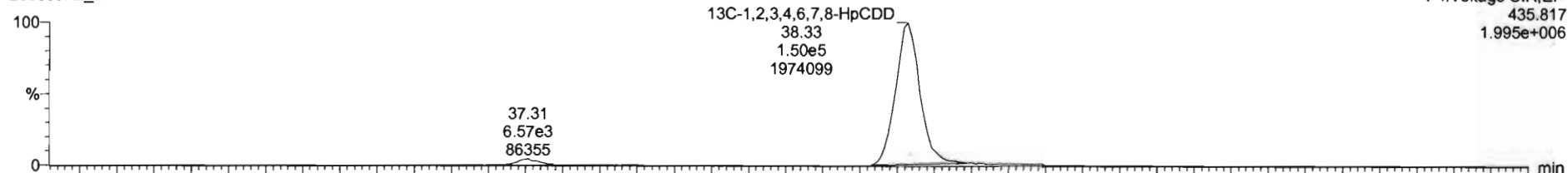


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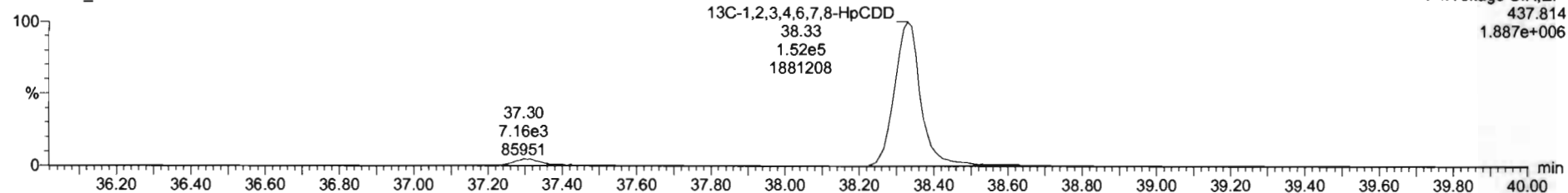


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200506R2_2



200506R2_2



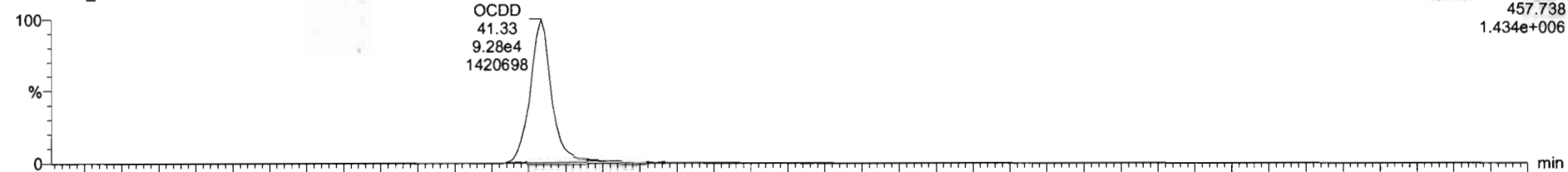
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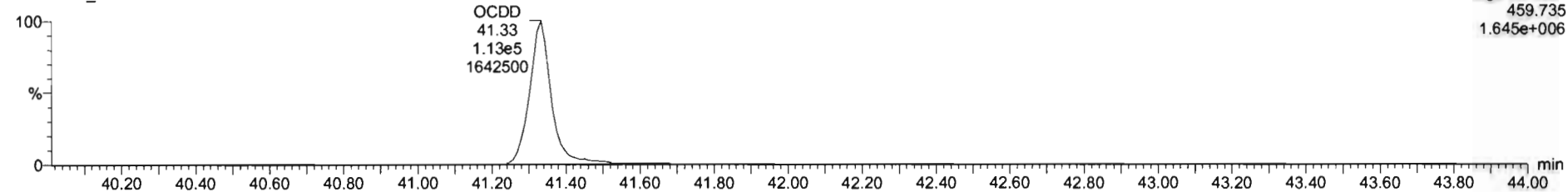
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OCDD

200506R2_2

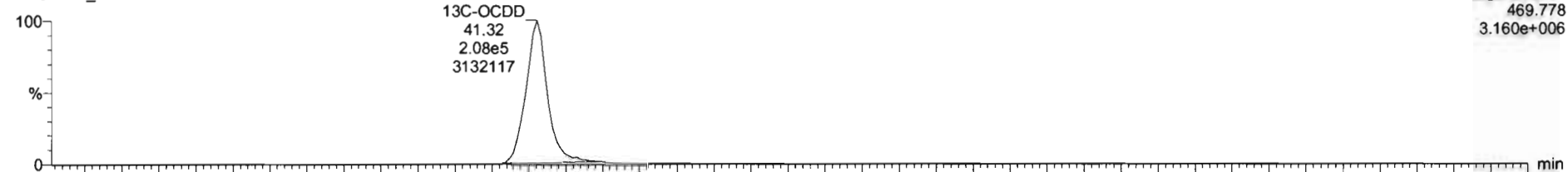


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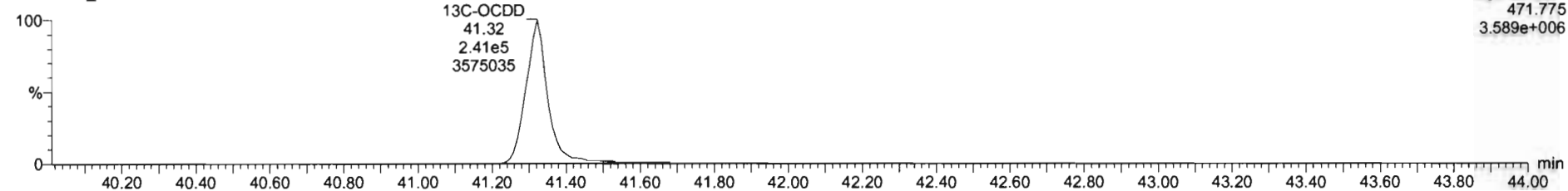


13C-OCDD

200506R2_2



200506R2_2



K1	Name	Resp	RA	nly	RRF	wtdval	RT	RRT	Conc	%Rec	DL	EMPC
6	1,2,3,4,6,7,8-HpCDB	1.30e5	1.02	NO	0.0575	10.000	38.75	1.001	96.1		0.370	96.1
7	OCDD	2.01e5	0.88	NO	0.0335	10.000	41.33	1.000	196		0.348	196
8	2,3,7,8-TCDF	5.56e4	0.76	NO	0.7571	10.000	25.05	1.001	18.9		0.157	18.9
9	1,2,3,7,8-PeCDF	3.25e4	1.59	NO	0.9182	10.000	29.78	1.001	94.0		0.330	94.0

K1	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1								



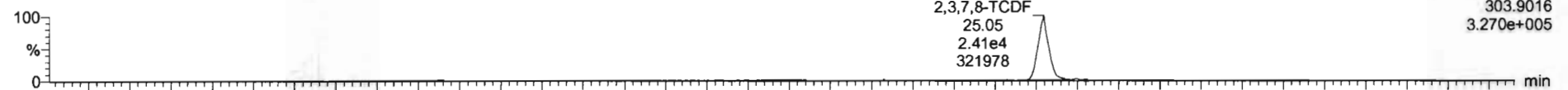
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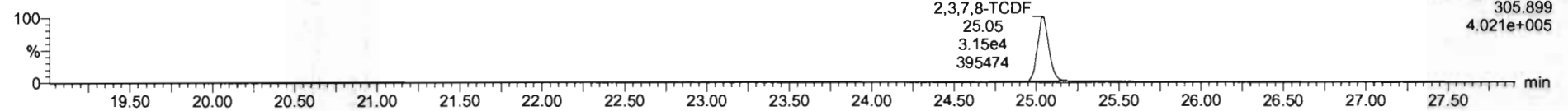
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2,3,7,8-TCDF

200506R2_2

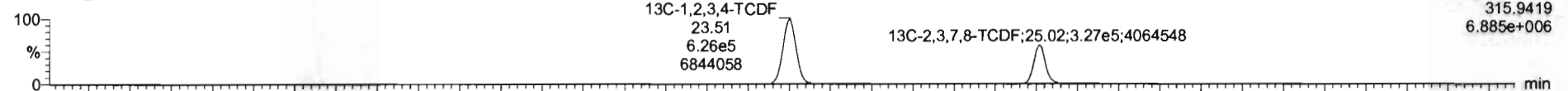


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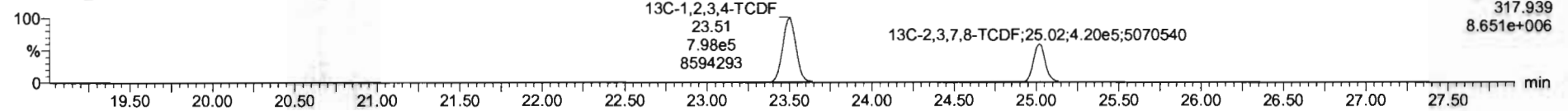


13C-2,3,7,8-TCDF

200506R2_2

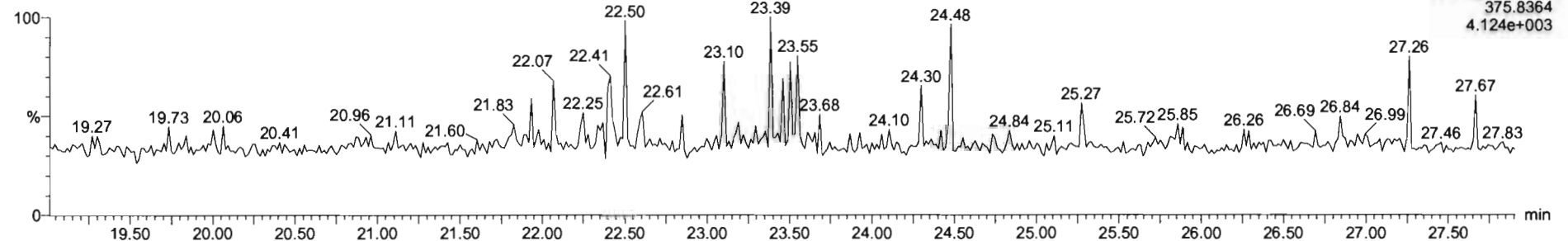


200506R2_2



DPE1

200506R2_2



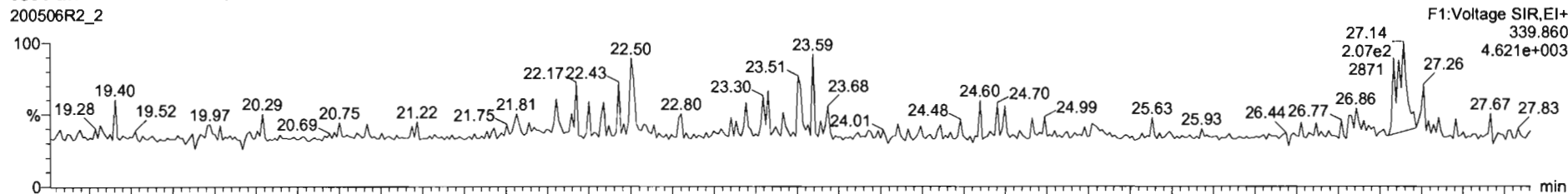
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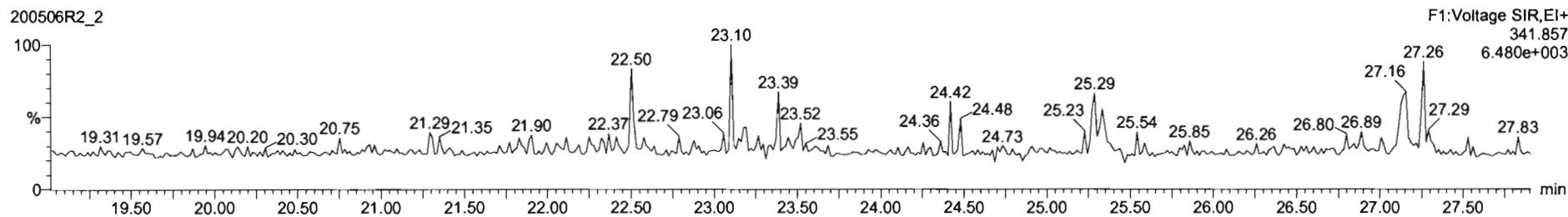
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200506R2_2

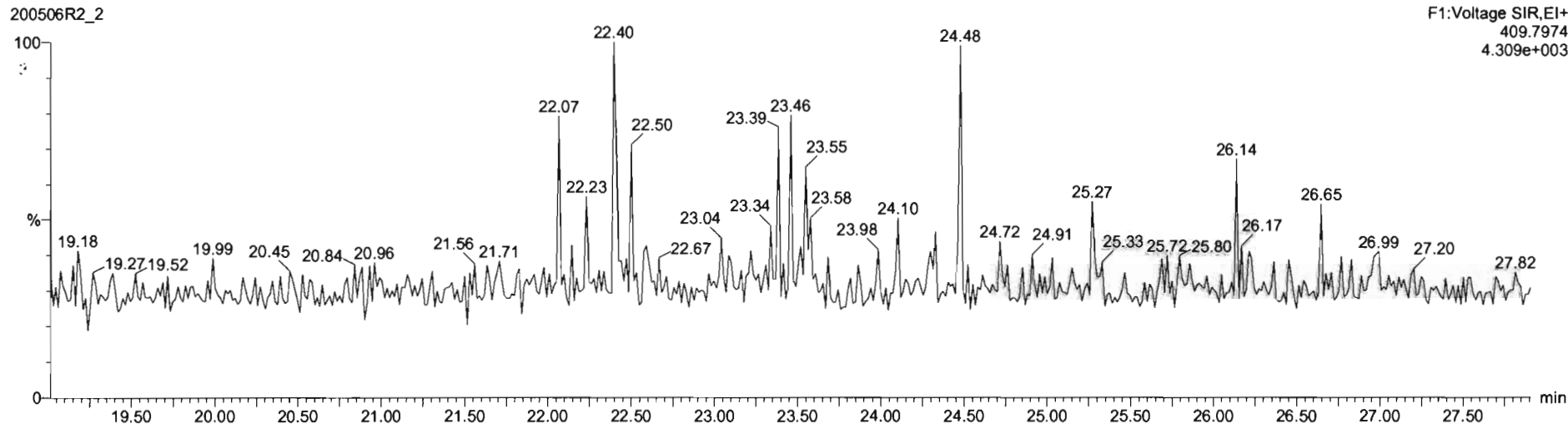


200506R2_2



DPE6

200506R2_2



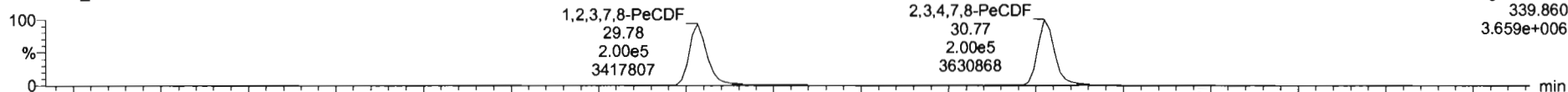
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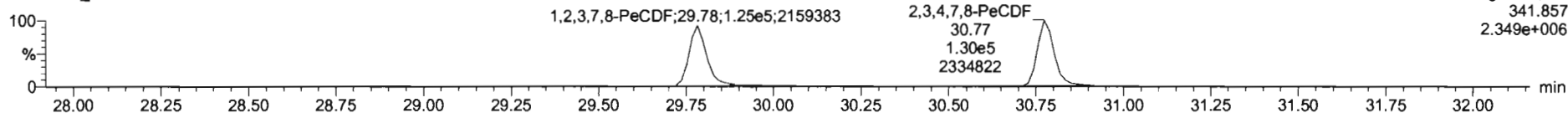
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1,2,3,7,8-PeCDF

200506R2_2



200506R2_2

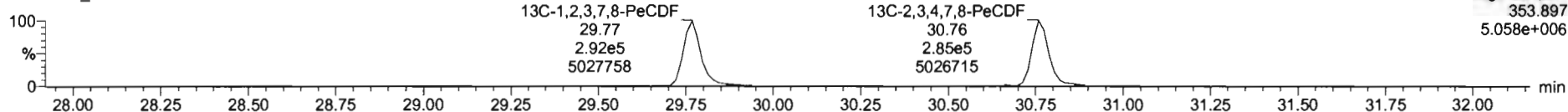


13C-1,2,3,7,8-PeCDF

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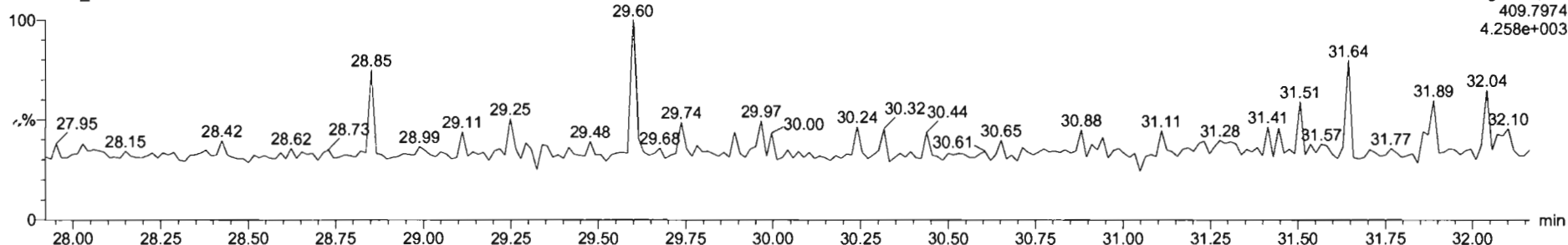


200506R2_2



DPE2

200506R2_2



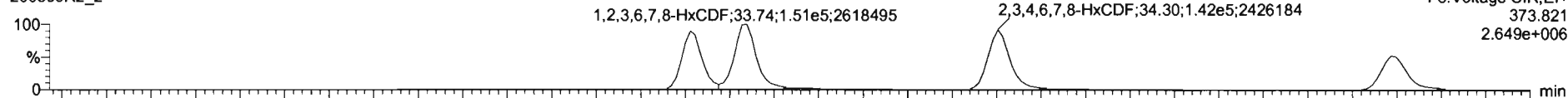
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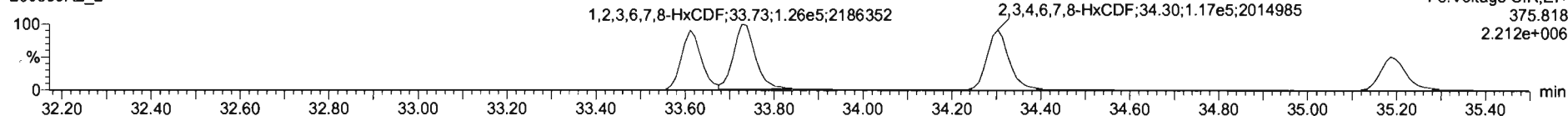
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1,2,3,4,7,8-HxCDF

200506R2_2

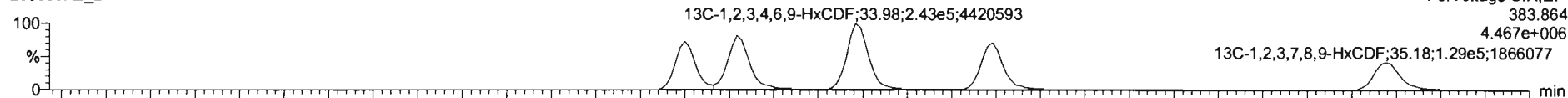


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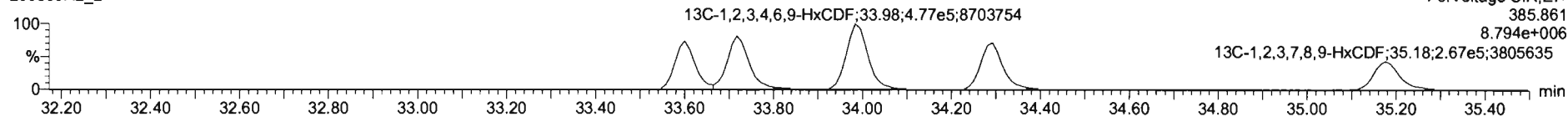


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200506R2_2

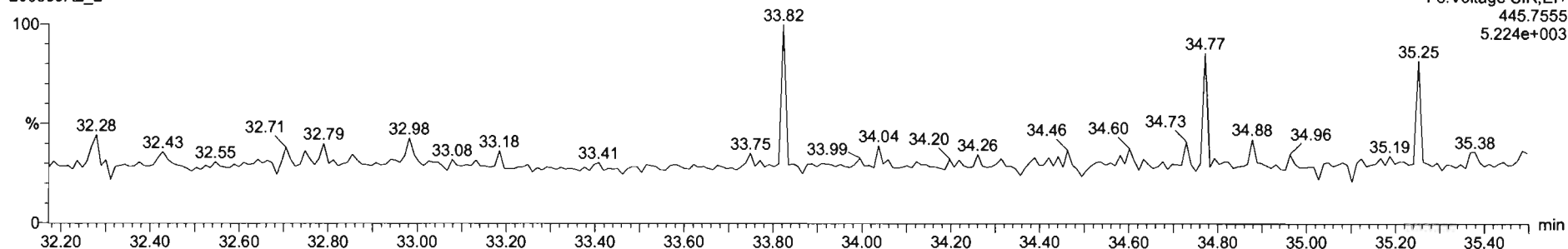


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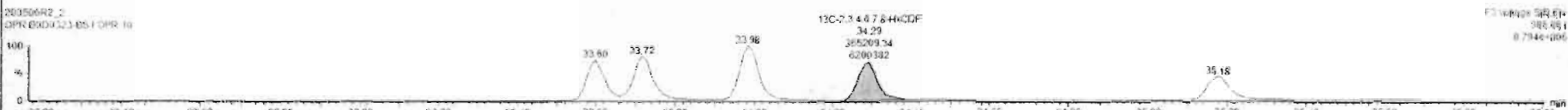
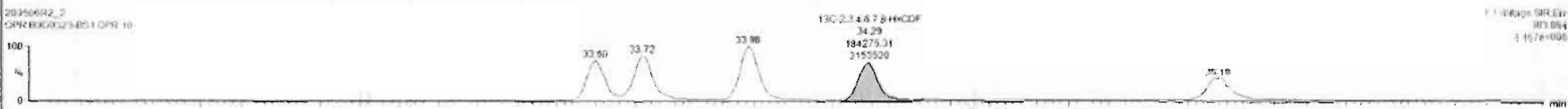
DPE3

200506R2_2



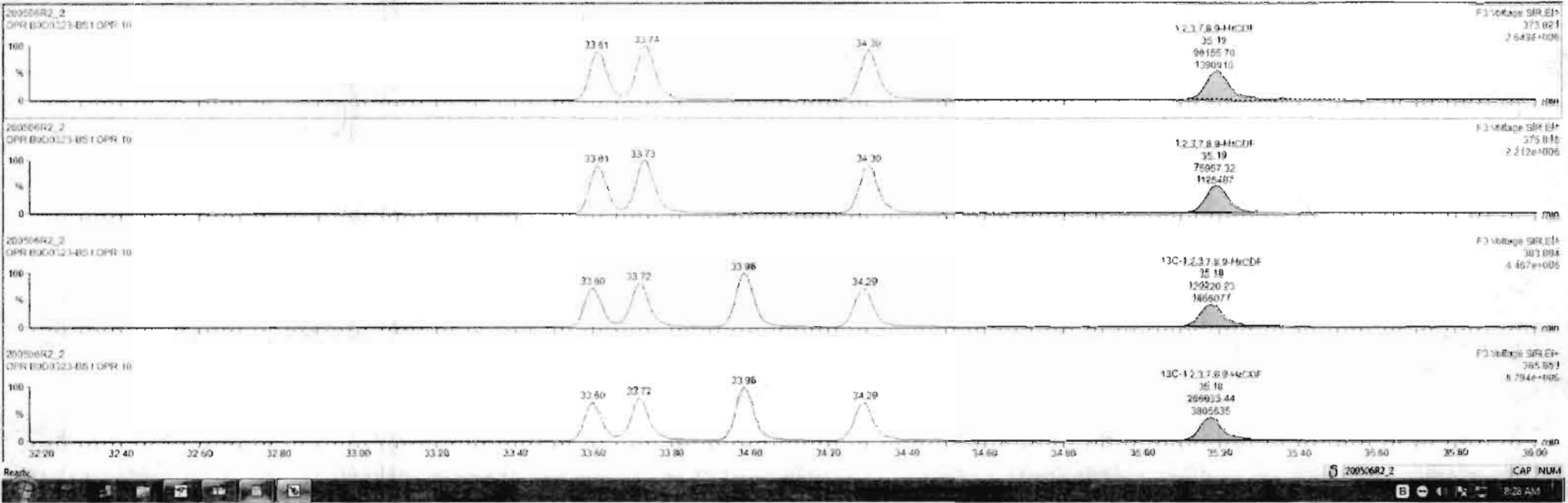
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12 1,2,3,6,7,8-HxCDF	2.77e1	1.20	ND	0.8740	10.000	33.74	1.001	104		0.391	104
13 2,3,4,6,7,8-HxCDF	2.58e5	1.20	ND	0.8217	10.000	34.30	1.000	104		6.435	104
14 1,2,3,7,8,9-HxCDF	1.75e5	1.28	ND	0.8642	10.000	35.19	1.000	161		0.749	101

Name	RT	m1 Resp	m2 Resp	RA	rv	EMPC	Conc
1							



Name	Resp	PA	n1y	RRF	wSvel	RT	RRT	Conc	Wt%	DL	EMPC
11 1,2,3,4,7,8-HxCDF	2.24e5	1.22	NO	0.8762	10.000	33.61	1.000	101	0.435	101	
12 1,2,3,6,7,8-HxCDF	2.77e5	1.20	NO	0.9740	10.000	33.74	1.001	104	0.391	104	
13 2,3,4,6,7,8-HxCDF	2.58e5	1.28	NO	0.9217	10.000	34.30	1.000	104	0.435	104	
14 1,2,3,7,8,9-HxCDF	1.72e5	1.27	NO	0.6642	10.000	35.19	1.000	101	0.749	101	

Name	RT	m1 Resp	m2 Resp	PA	n1y	EMPC	Conc.
1							



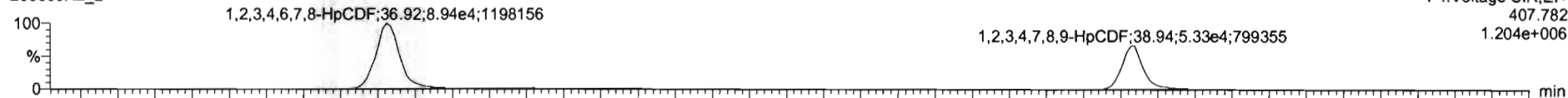
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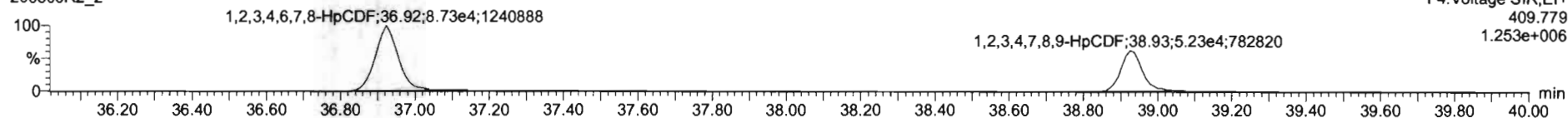
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1,2,3,4,6,7,8-HpCDF

200506R2_2

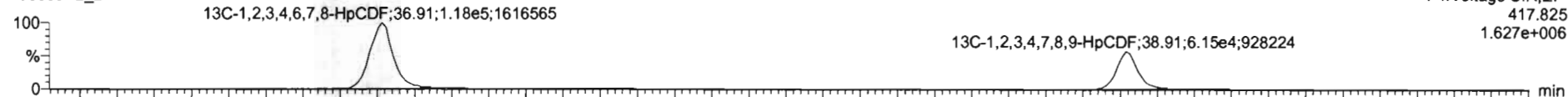


200506R2_2

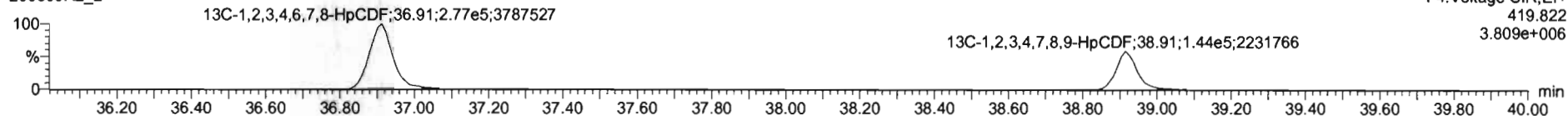


13C-1,2,3,4,6,7,8-HpCDF

200506R2_2

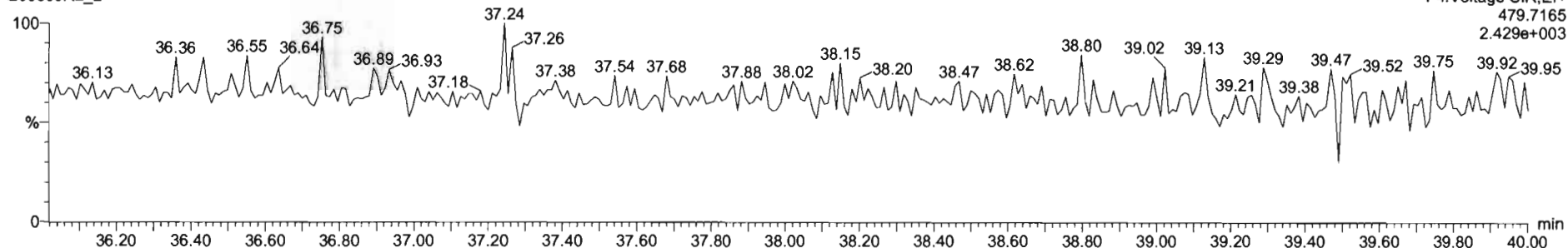


200506R2_2



DPE4

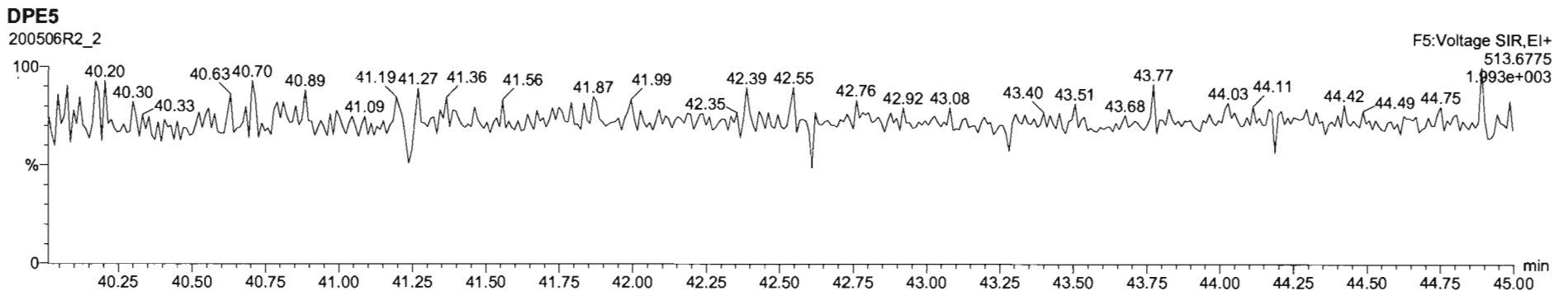
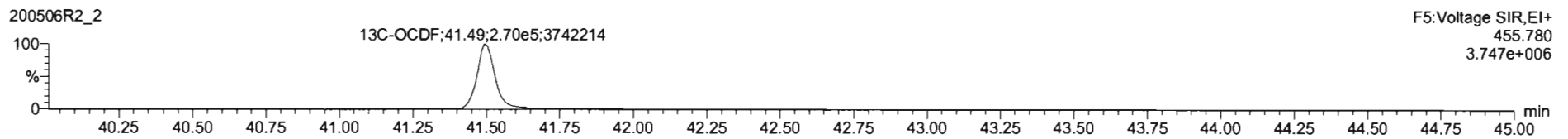
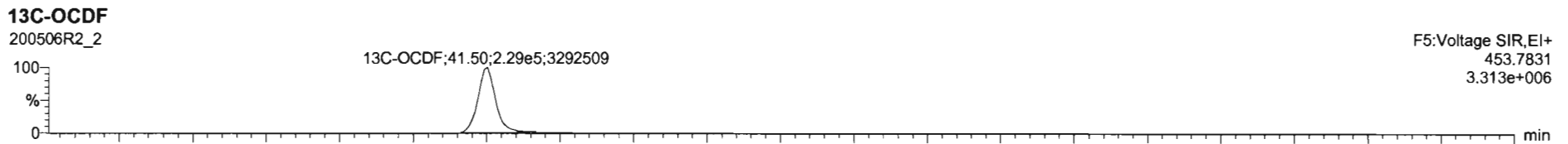
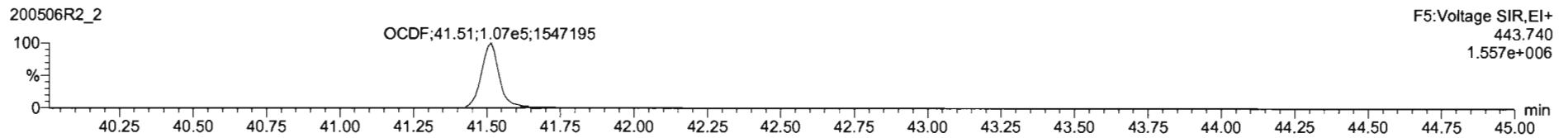
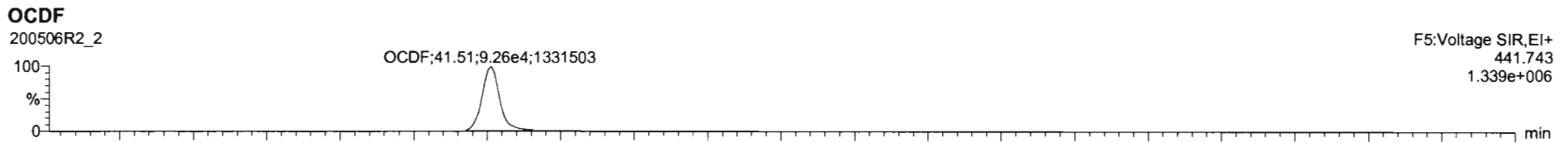
200506R2_2



Dataset: Untitled

Last Altered: Thursday, May 07, 2020 7:38:55 AM Pacific Daylight Time
Printed: Thursday, May 07, 2020 7:39:06 AM Pacific Daylight Time

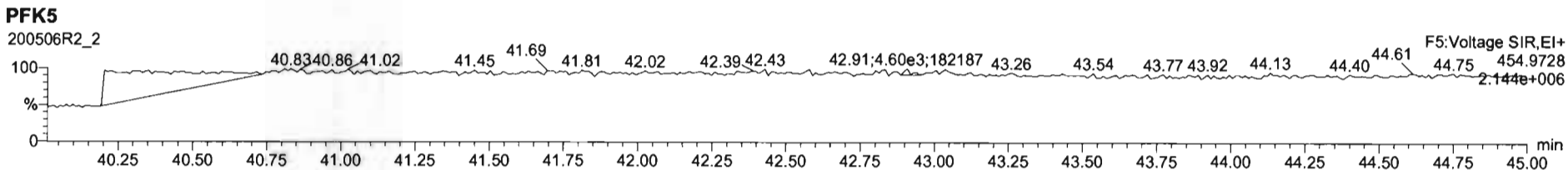
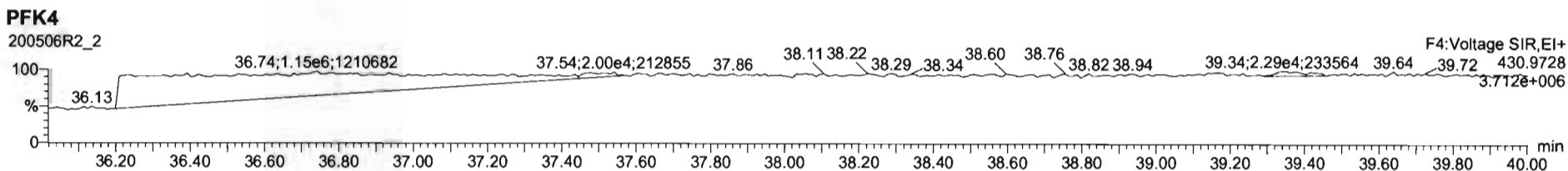
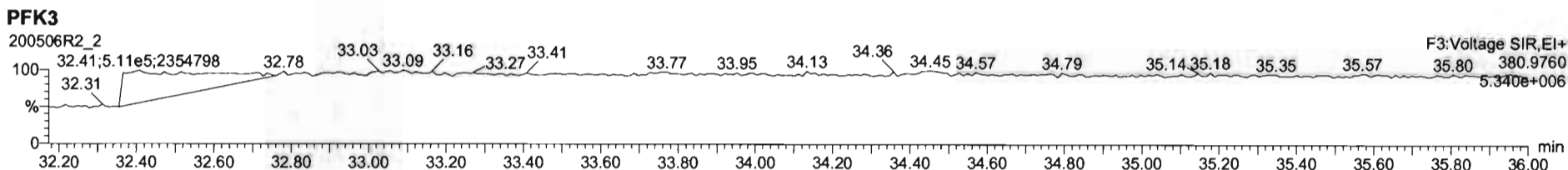
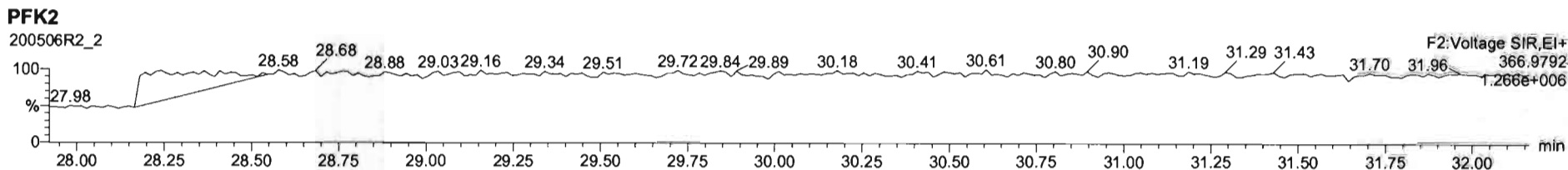
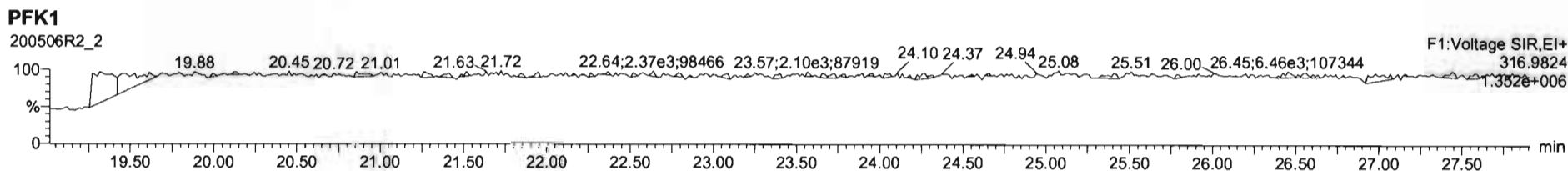
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Dataset: Untitled

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Printed: Thursday, May 07, 2020 7:39:06 AM Pacific Daylight Time

Name: 200506R2_2, Date: 06-May-2020, Time: 14:23:12, ID: B0D0323-BS1 OPR 10, Description: OPR



Dataset: U:\VG12.PRO\Results\200518R2\200518R2-5.qld

Last Altered: Tuesday, May 19, 2020 09:58:57 Pacific Daylight Time

Printed: Tuesday, May 19, 2020 09:59:36 Pacific Daylight Time

GLD 05/19/2020

CT 05/22/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_5, Date: 18-May-2020, Time: 17:07:38, ID: B0E0079-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.000	26.080		1.001				0.0515	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.000	31.147		1.001				0.0463	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.000	34.515		1.000				0.0740	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.000	34.612		1.000				0.0784	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.000	34.888		1.000				0.0853	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.898	10.000	38.394		1.000				0.0993	
7	7 OCDD	5.54e2	0.97	NO	0.933	10.000	41.364	41.39	1.000	1.001	0.23652		0.0734	0.237
8	8 2,3,7,8-TCDF			NO	0.787	10.000	25.147		1.001				0.0300	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.000	29.834		1.001				0.0329	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.000	30.835		1.001				0.0326	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.000	33.643		1.000				0.0567	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.000	33.770		1.000				0.0549	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.000	34.369		1.001				0.0583	
14	14 1,2,3,7,8,9-HxCDF	4.23e2	1.26	NO	0.864	10.000	35.230	35.25	1.000	1.001	0.12896		0.0417	0.129
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.000	37.003		1.001				0.0724	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.000	38.968		1.000				0.0791	
17	17 OCDF	3.39e2	0.98	NO	0.802	10.000	41.545	41.55	1.000	1.000	0.14233		0.111	0.142
18	18 13C-2,3,7,8-TCDD	1.28e6	0.78	NO	1.16	10.000	26.031	26.05	1.026	1.027	179.08	89.5	0.190	
19	19 13C-1,2,3,7,8-PeCDD	9.86e5	0.62	NO	0.847	10.000	31.123	31.13	1.227	1.227	188.69	94.3	0.189	
20	20 13C-1,2,3,4,7,8-HxCDD	6.80e5	1.26	NO	0.750	10.000	34.506	34.51	1.014	1.014	167.73	83.9	0.457	
21	21 13C-1,2,3,6,7,8-HxCDD	8.49e5	1.25	NO	0.963	10.000	34.618	34.61	1.017	1.017	163.14	81.6	0.356	
22	22 13C-1,2,3,7,8,9-HxCDD	7.48e5	1.25	NO	0.838	10.000	34.887	34.88	1.025	1.025	165.21	82.6	0.410	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.86e5	1.05	NO	0.641	10.000	38.378	38.38	1.128	1.128	169.10	84.5	0.435	
24	24 13C-OCDD	1.00e6	0.87	NO	0.586	10.000	41.372	41.36	1.216	1.216	316.85	79.2	0.402	
25	25 13C-2,3,7,8-TCDF	1.63e6	0.78	NO	1.03	10.000	25.090	25.12	0.989	0.991	178.86	89.4	0.287	
26	26 13C-1,2,3,7,8-PeCDF	1.41e6	1.58	NO	0.845	10.000	29.812	29.81	1.176	1.176	189.42	94.7	0.481	
27	27 13C-2,3,4,7,8-PeCDF	1.33e6	1.57	NO	0.814	10.000	30.803	30.80	1.215	1.215	184.66	92.3	0.499	
28	28 13C-1,2,3,4,7,8-HxCDF	9.08e5	0.51	NO	1.00	10.000	33.645	33.64	0.989	0.989	167.22	83.6	0.394	
29	29 13C-1,2,3,6,7,8-HxCDF	1.02e6	0.51	NO	1.14	10.000	33.767	33.76	0.992	0.992	166.44	83.2	0.349	
30	30 13C-2,3,4,6,7,8-HxCDF	9.06e5	0.51	NO	1.02	10.000	34.336	34.33	1.009	1.009	164.00	82.0	0.388	
31	31 13C-1,2,3,7,8,9-HxCDF	7.59e5	0.52	NO	0.845	10.000	35.227	35.23	1.035	1.035	166.22	83.1	0.469	

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-5.qld

Last Altered: Tuesday, May 19, 2020 09:58:57 Pacific Daylight Time

Printed: Tuesday, May 19, 2020 09:59:36 Pacific Daylight Time

Name: 200518R2_5, Date: 18-May-2020, Time: 17:07:38, ID: B0E0079-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.76e5	0.42	NO	0.771	10.000	36.959	36.97	1.086	1.086	162.20	81.1	0.513	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.71e5	0.44	NO	0.482	10.000	38.970	38.97	1.145	1.145	180.78	90.4	0.820	
34	34 13C-OCDF	1.19e6	0.87	NO	0.669	10.000	41.542	41.54	1.221	1.221	329.00	82.3	0.373	
35	35 37Cl-2,3,7,8-TCDD	4.71e5			1.10	10.000	26.061	26.07	1.028	1.028	69.464	86.8	0.0341	
36	36 13C-1,2,3,4-TCDD	1.23e6	0.78	NO	1.00	10.000	25.350	25.36	1.000	1.000	200.00	100	0.220	
37	37 13C-1,2,3,4-TCDF	1.77e6	0.78	NO	1.00	10.000	23.560	23.59	1.000	1.000	200.00	100	0.297	
38	38 13C-1,2,3,4,6,9-HxCDF	1.08e6	0.51	NO	1.00	10.000	34.000	34.03	1.000	1.000	200.00	100	0.396	
39	39 Total Tetra-Dioxins				0.947	10.000	24.620		0.000				0.0311	
40	40 Total Penta-Dioxins				0.942	10.000	29.960		0.000				0.0174	
41	41 Total Hexa-Dioxins				0.915	10.000	33.635		0.000				0.0448	
42	42 Total Hepta-Dioxins				0.898	10.000	37.640		0.000				0.0632	
43	43 Total Tetra-Furans				0.787	10.000	23.610		0.000				0.0126	
44	44 1st Func. Penta-Furans				0.910	10.000	27.090		0.000				0.00669	
45	45 Total Penta-Furans				0.910	10.000	29.275		0.000				0.0168	
46	46 Total Hexa-Furans				0.922	10.000	33.555		0.000		0.16478		0.0290	0.165
47	47 Total Hepta-Furans				0.871	10.000	37.835		0.000				0.0474	

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-5.qld

Last Altered: Tuesday, May 19, 2020 09:58:57 Pacific Daylight Time

Printed: Tuesday, May 19, 2020 09:59:36 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_5, Date: 18-May-2020, Time: 17:07:38, ID: B0E0079-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

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

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-5.qld

Last Altered: Tuesday, May 19, 2020 09:58:57 Pacific Daylight Time

Printed: Tuesday, May 19, 2020 09:59:36 Pacific Daylight Time

Name: 200518R2_5, Date: 18-May-2020, Time: 17:07:38, ID: B0E0079-BLK1 Method Blank 10, Description: Method Blank

Penta-Furans

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

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8,9-HxCDF	35.25	3.564e3	3.743e3	2.357e2	1.871e2	1.26	NO	4.228e2	0.12896	0.12896	0.0417
2	Total Hexa-Furans	35.28	2.320e3	2.984e3	8.191e1	6.650e1	1.23	NO	1.484e2	0.035826	0.035826	0.0290

Hepta-Furans

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

Dataset: Untitled

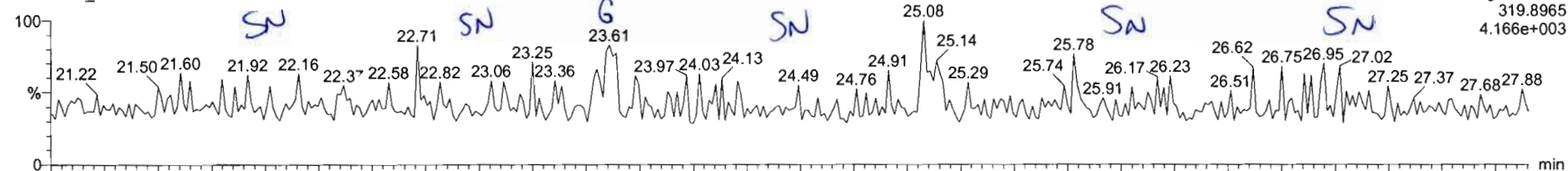
Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time

Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

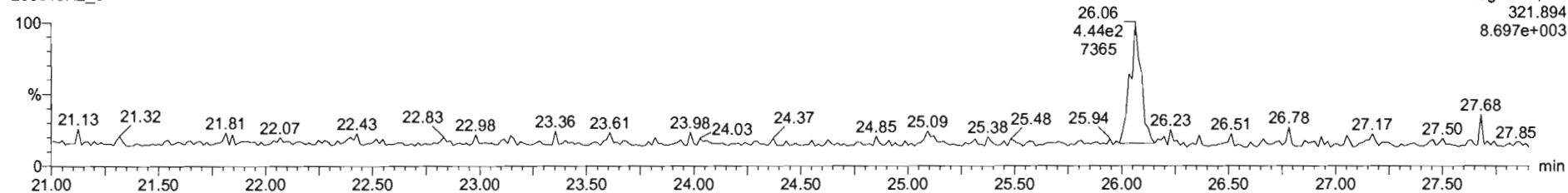
Name: 200518R2_5, Date: 18-May-2020, Time: 17:07:38, ID: B0E0079-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD

200518R2_5

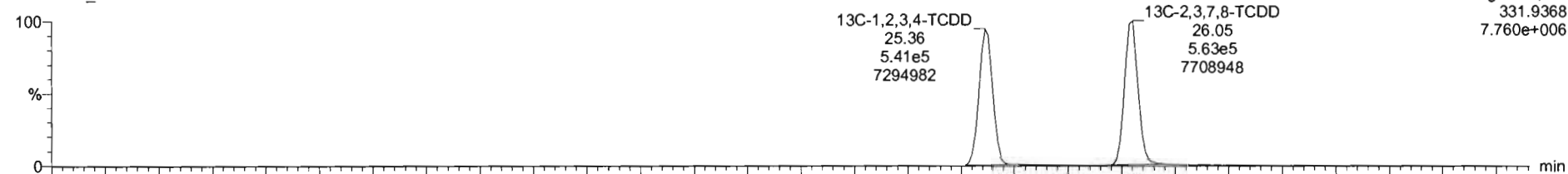


200518R2_5

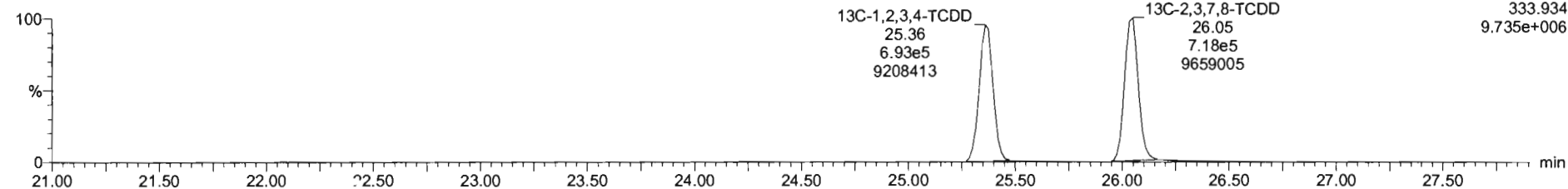


13C-2,3,7,8-TCDD

200518R2_5



200518R2_5



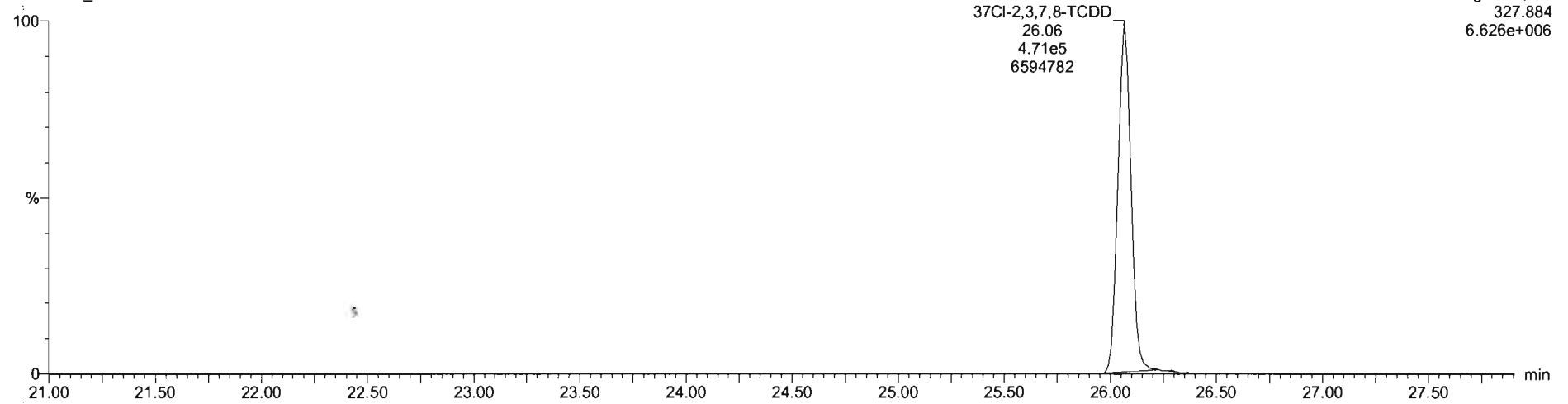
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Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2_5, Date: 18-May-2020, Time: 17:07:38, ID: B0E0079-BLK1 Method Blank 10, Description: Method Blank

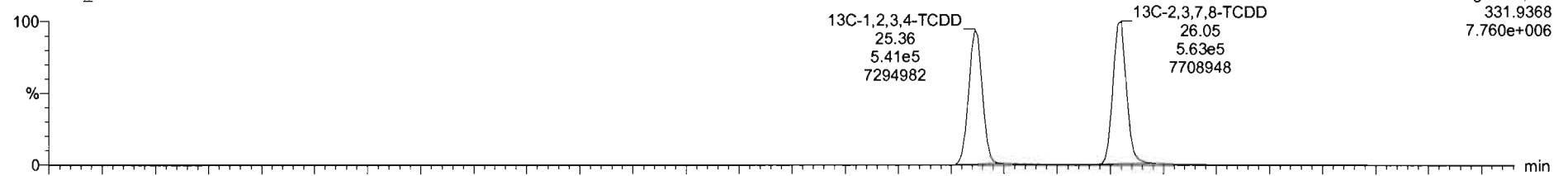
37Cl-2,3,7,8-TCDD

200518R2_5

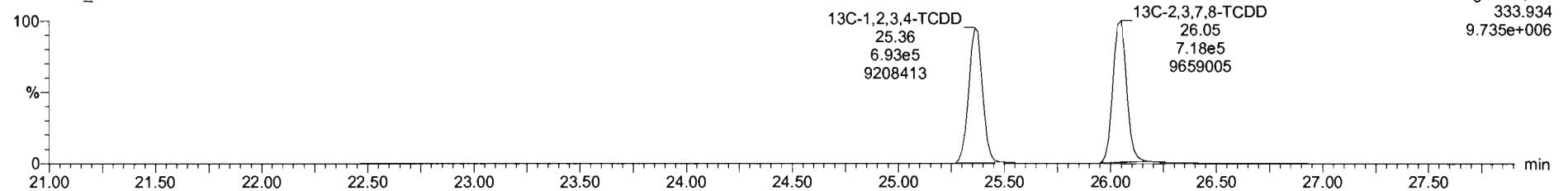


13C-1,2,3,4-TCDD

200518R2_5



200518R2_5



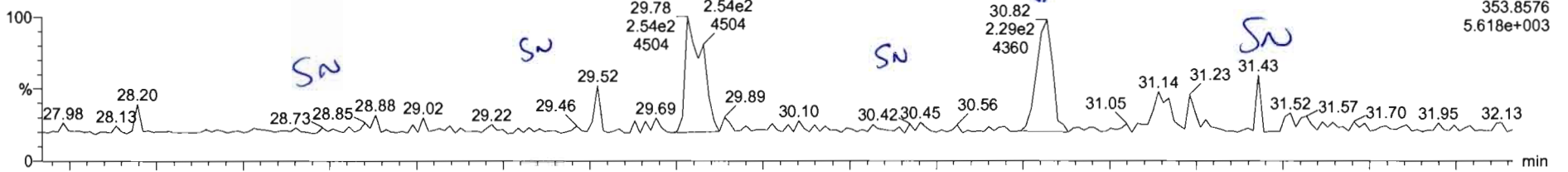
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Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2_5, Date: 18-May-2020, Time: 17:07:38, ID: B0E0079-BLK1 Method Blank 10, Description: Method Blank

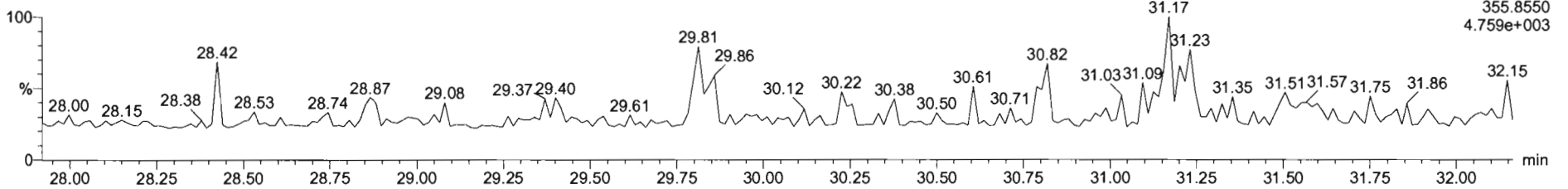
1,2,3,7,8-PeCDD

200518R2_5



F2:Voltage SIR,EI+
353.8576
5.618e+003

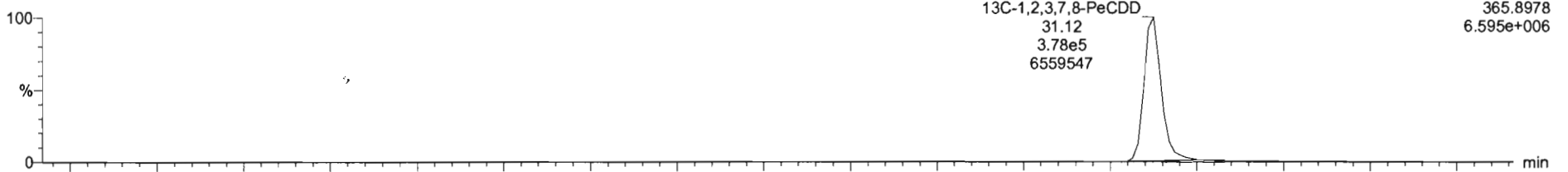
200518R2_5



F2:Voltage SIR,EI+
355.8550
4.759e+003

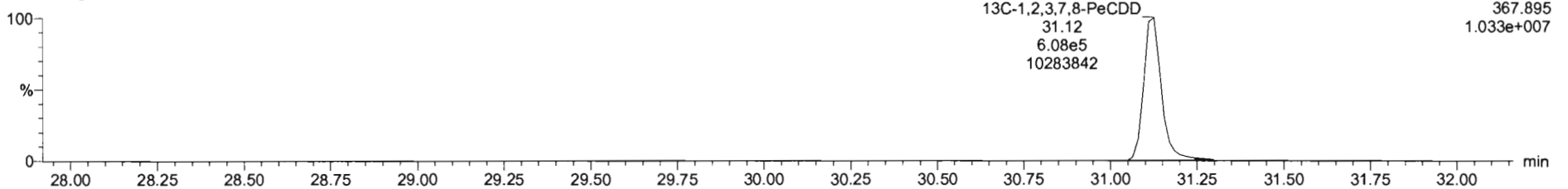
13C-1,2,3,7,8-PeCDD

200518R2_5



F2:Voltage SIR,EI+
365.8978
6.595e+006

200518R2_5



F2:Voltage SIR,EI+
367.895
1.033e+007

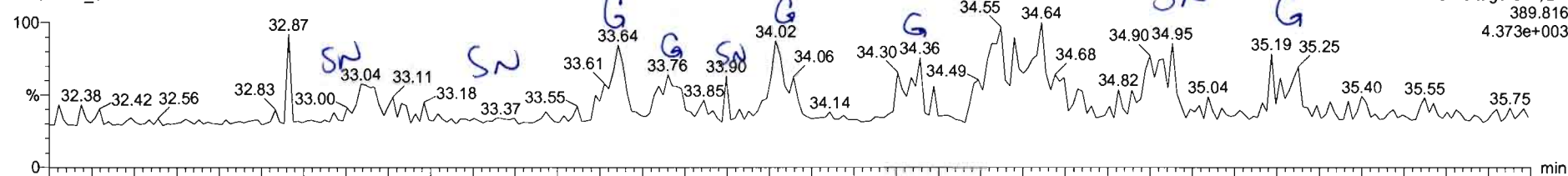
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Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

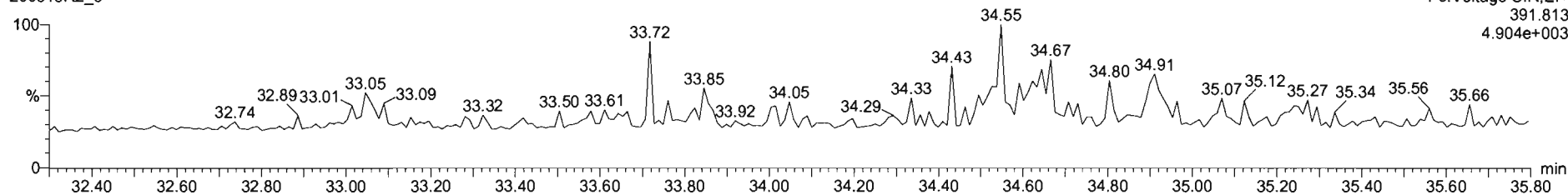
Name: 200518R2_5, Date: 18-May-2020, Time: 17:07:38, ID: B0E0079-BLK1 Method Blank 10, Description: Method Blank

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

200518R2_5

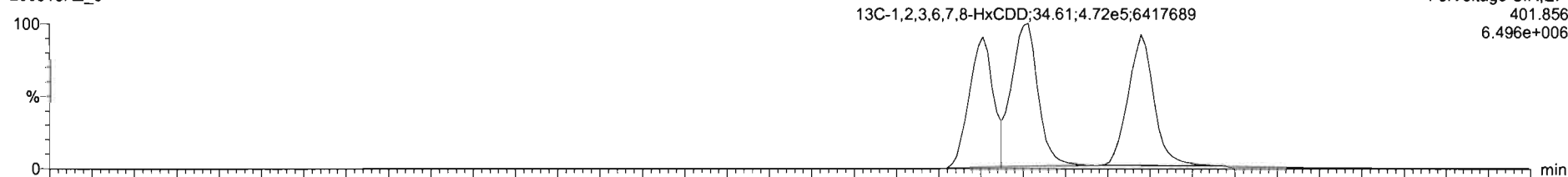


200518R2_5

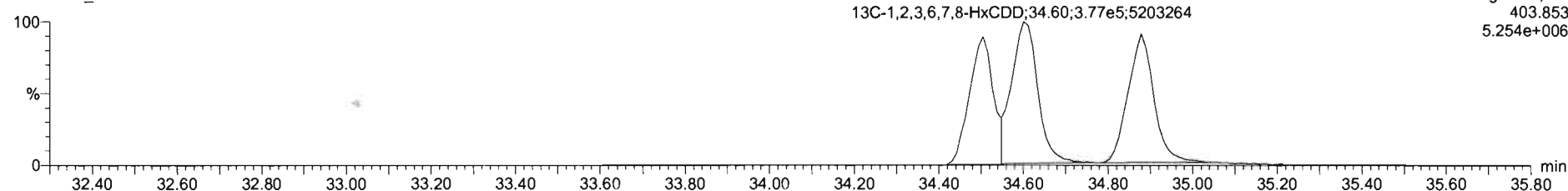


13C-1,2,3,4,7,8-HxCDD

200518R2_5



200518R2_5



Dataset: Untitled

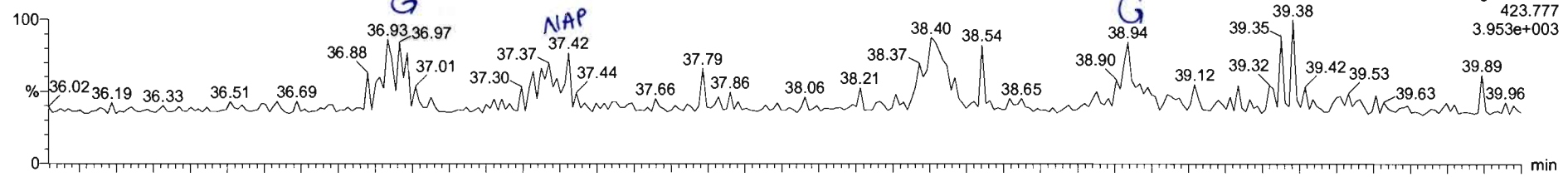
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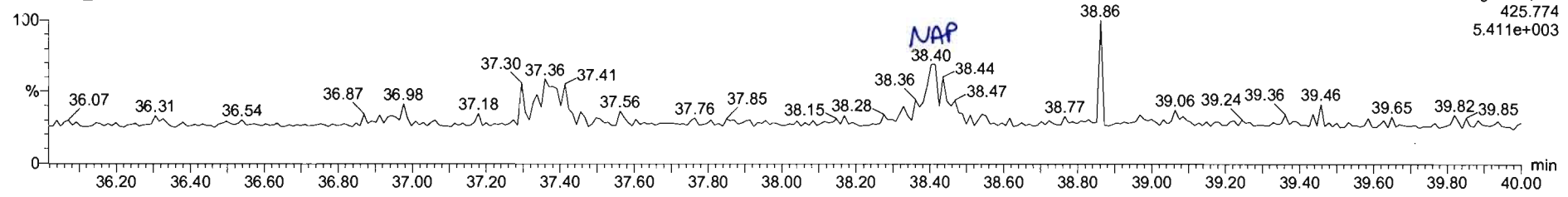
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1,2,3,4,6,7,8-HpCDD

200518R2_5

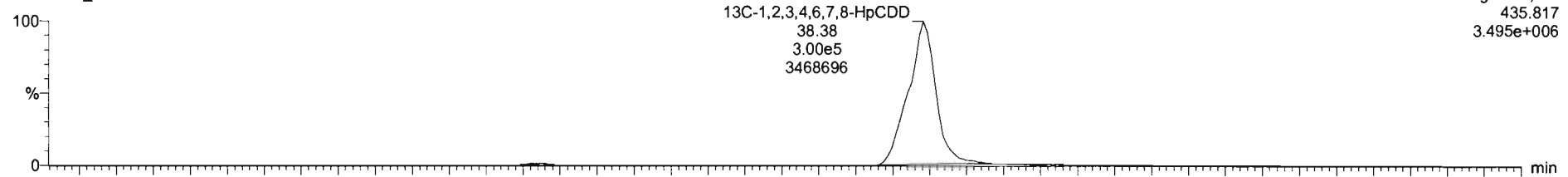


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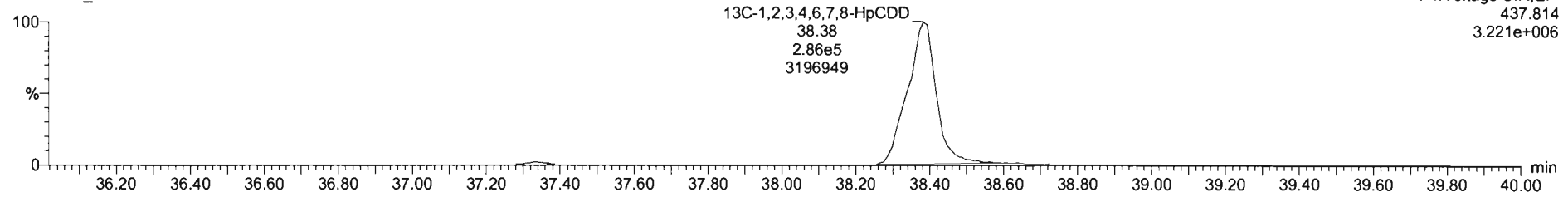


13C-1,2,3,4,6,7,8-HpCDD

200518R2_5



200518R2_5

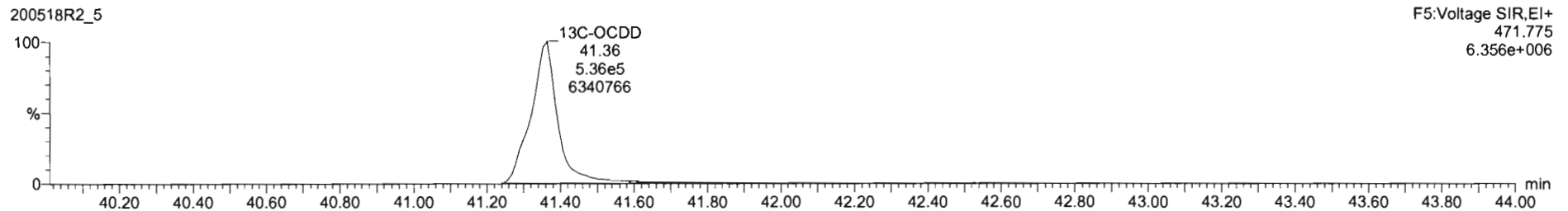
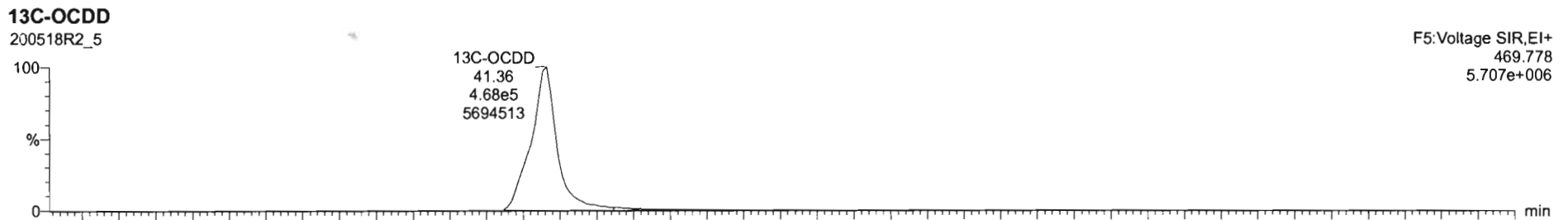
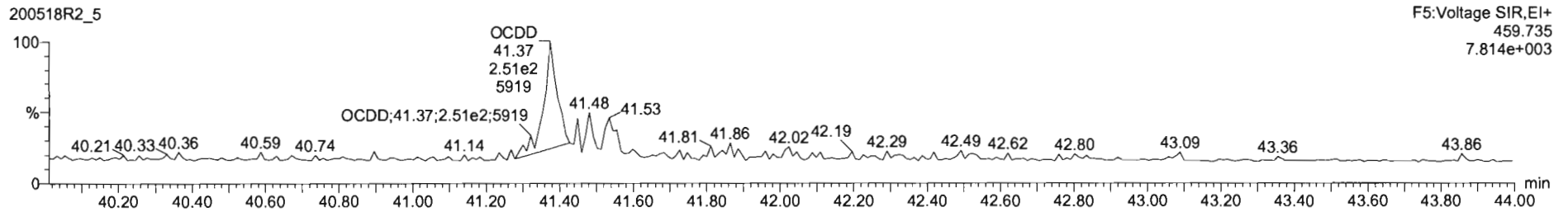
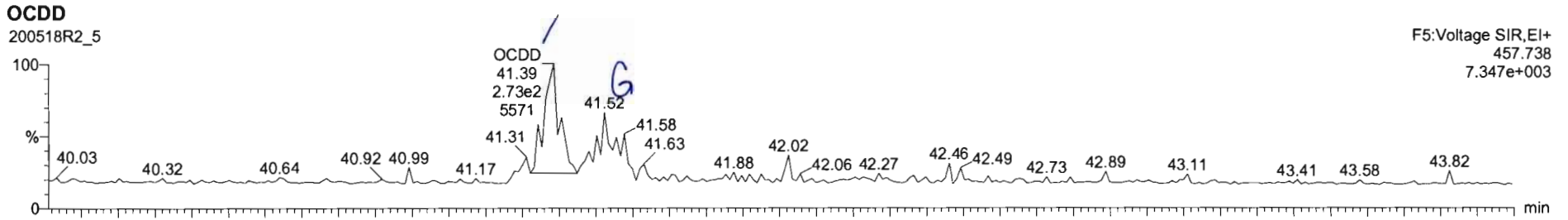


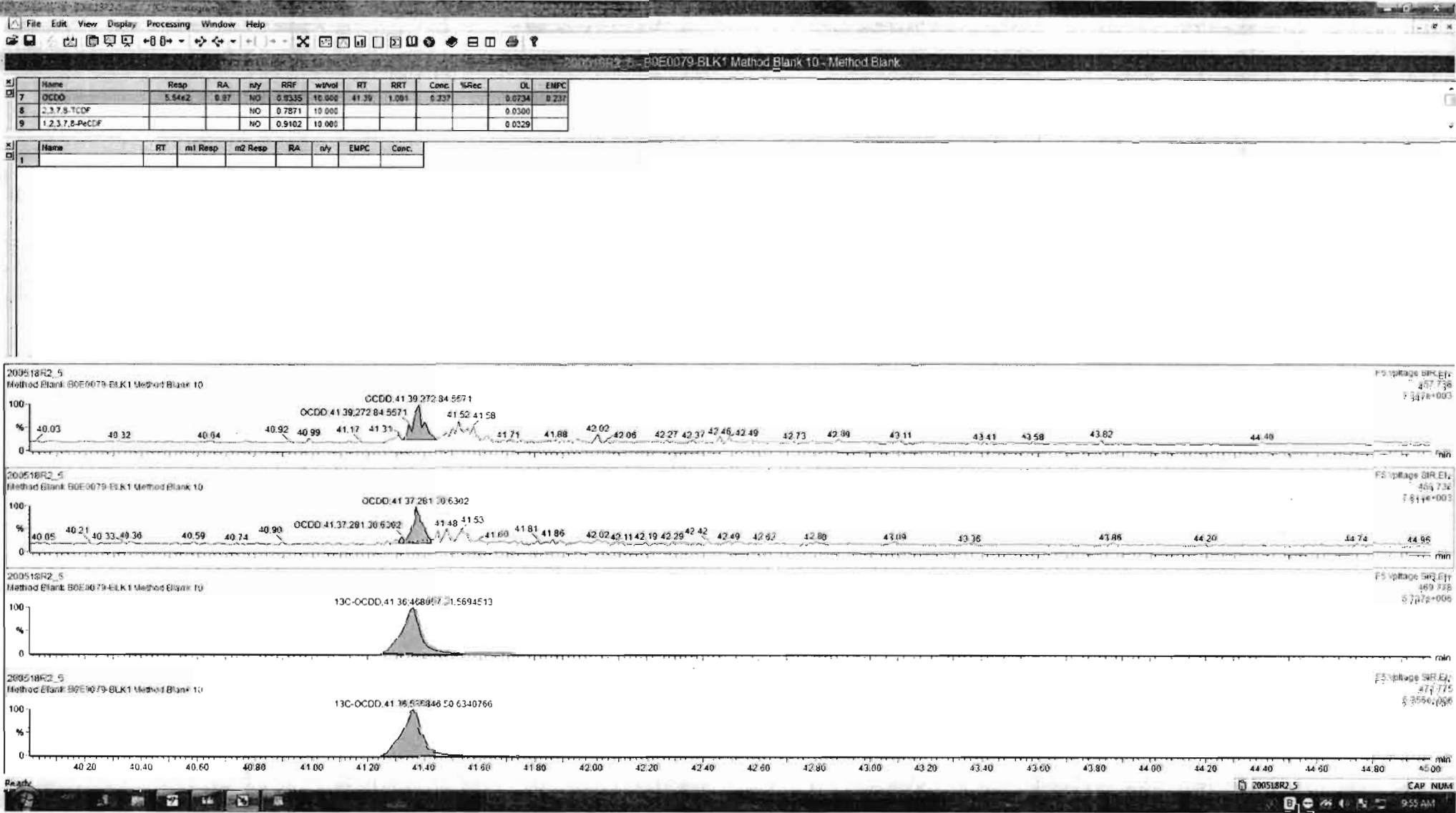
Dataset: Untitled

Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time

Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2_5, Date: 18-May-2020, Time: 17:07:38, ID: B0E0079-BLK1 Method Blank 10, Description: Method Blank



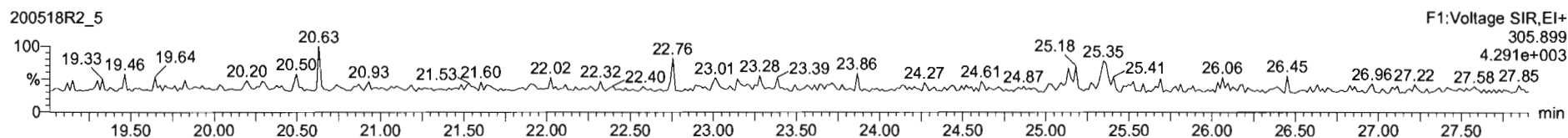
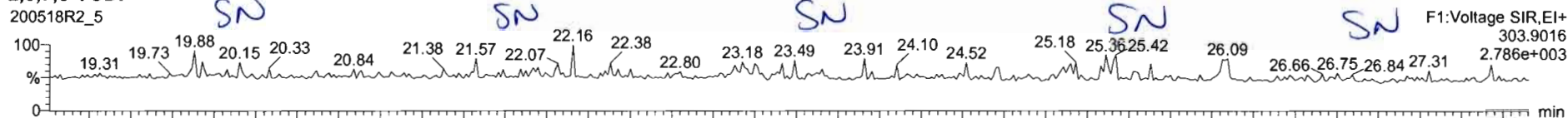


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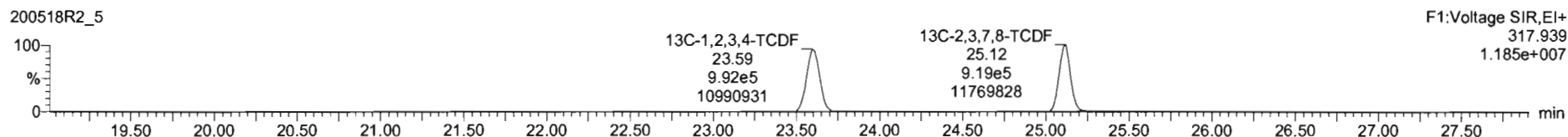
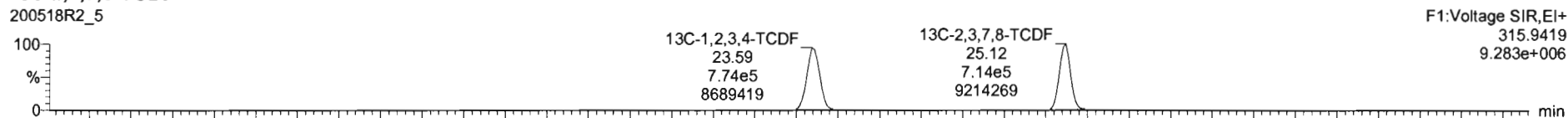
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Name: 200518R2_5, Date: 18-May-2020, Time: 17:07:38, ID: B0E0079-BLK1 Method Blank 10, Description: Method Blank

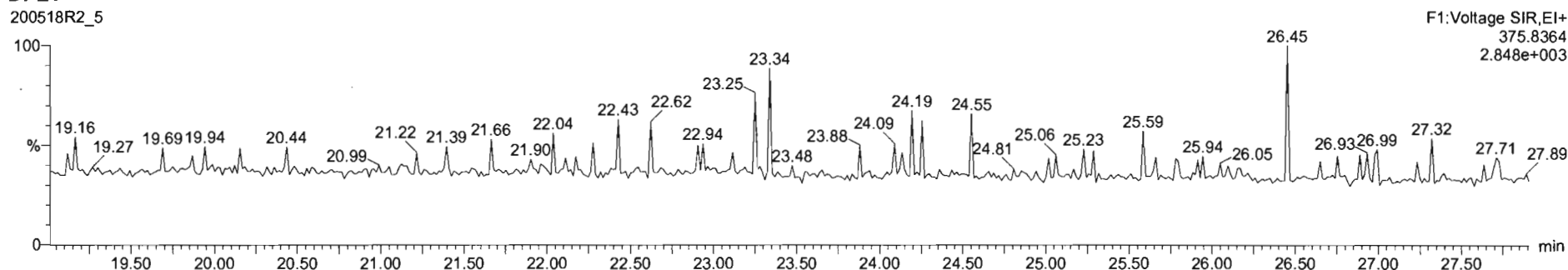
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

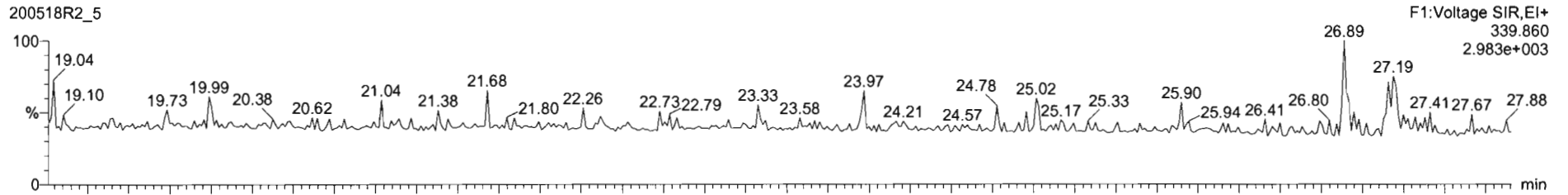
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Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

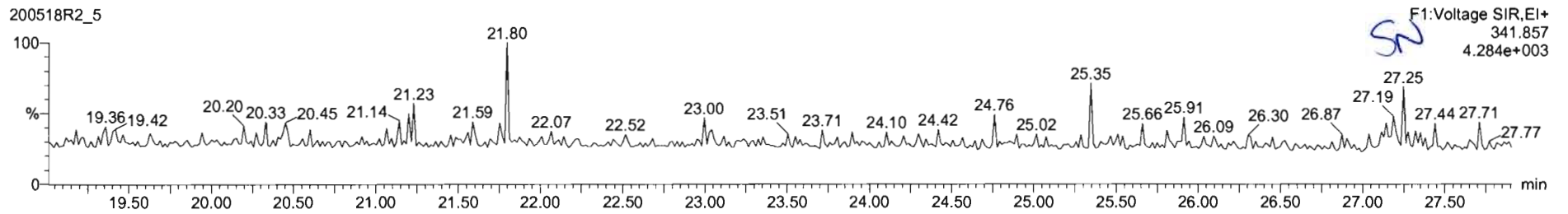
Name: 200518R2_5, Date: 18-May-2020, Time: 17:07:38, ID: B0E0079-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

200518R2_5

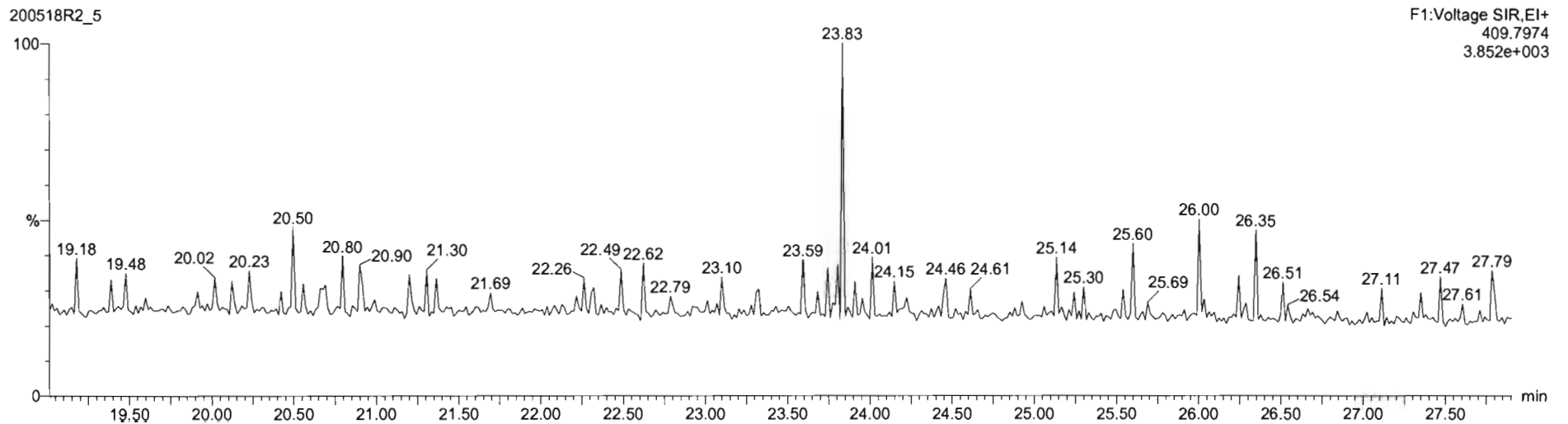


200518R2_5



DPE6

200518R2_5

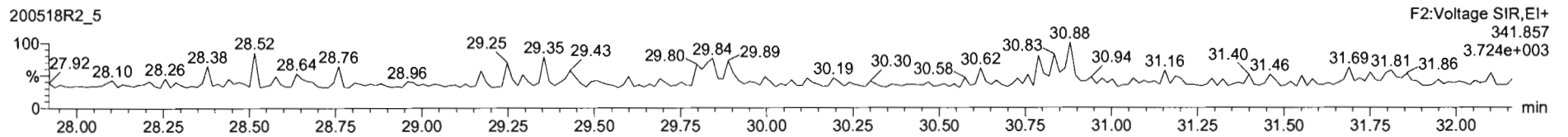
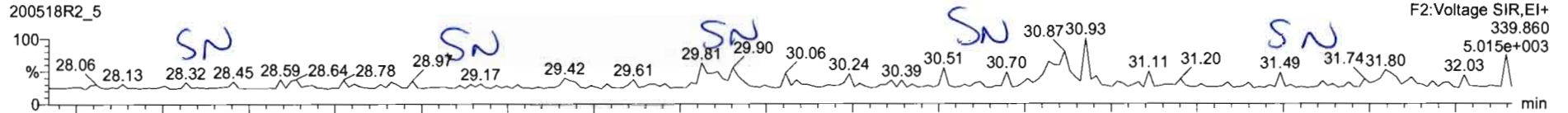


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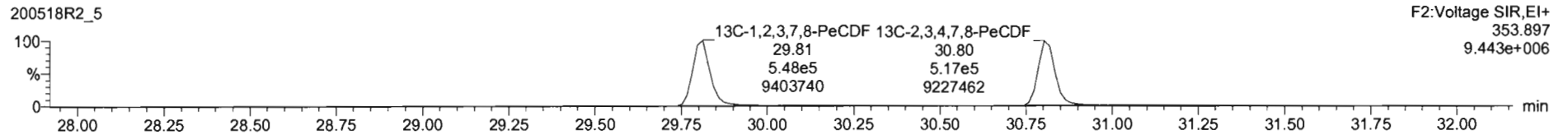
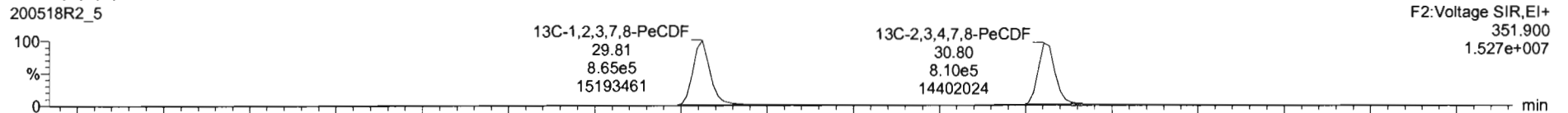
Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2_5, Date: 18-May-2020, Time: 17:07:38, ID: B0E0079-BLK1 Method Blank 10, Description: Method Blank

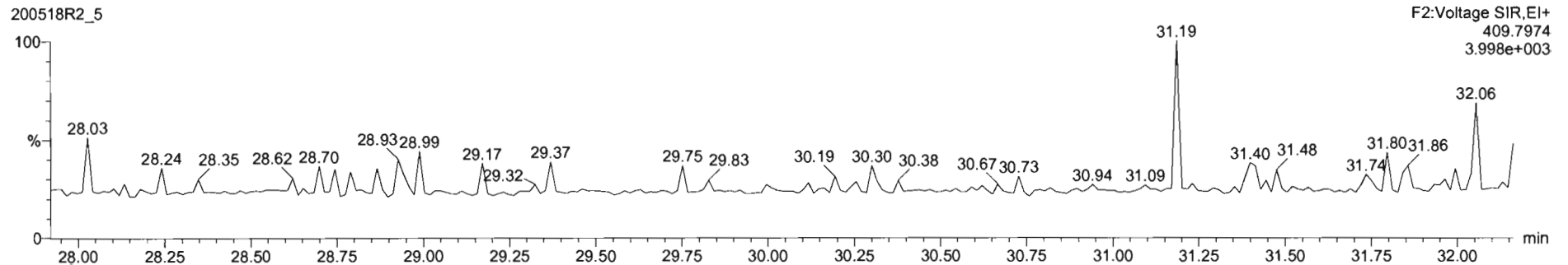
1,2,3,7,8-PeCDF



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



DPE2



Dataset: Untitled

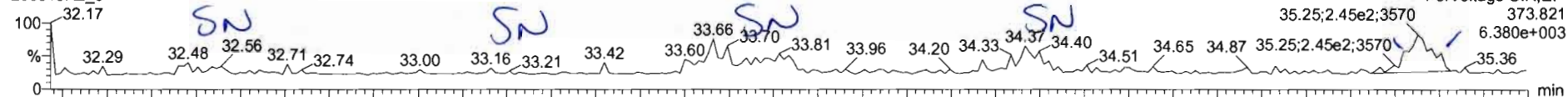
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Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

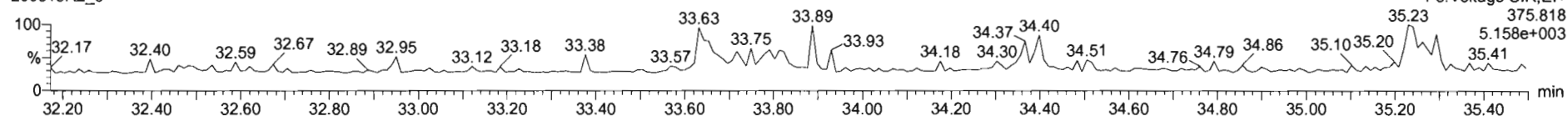
Name: 200518R2_5, Date: 18-May-2020, Time: 17:07:38, ID: B0E0079-BLK1 Method Blank 10, Description: Method Blank

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

200518R2_5

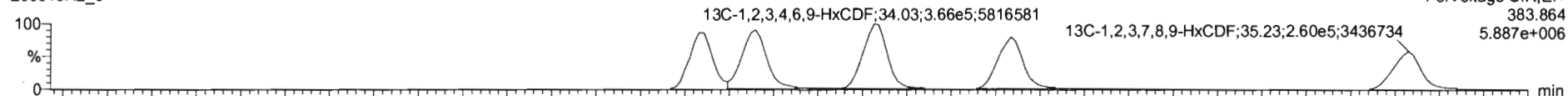


200518R2_5

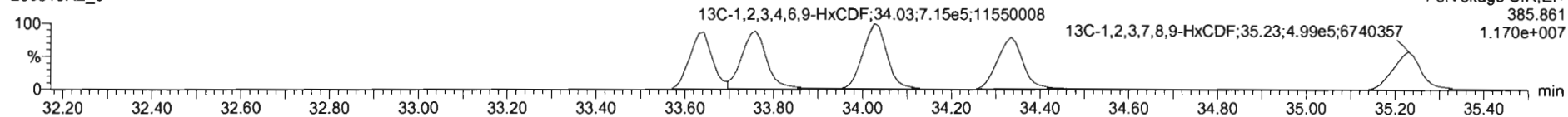


13C-1,2,3,4,7,8-HxCDF

200518R2_5

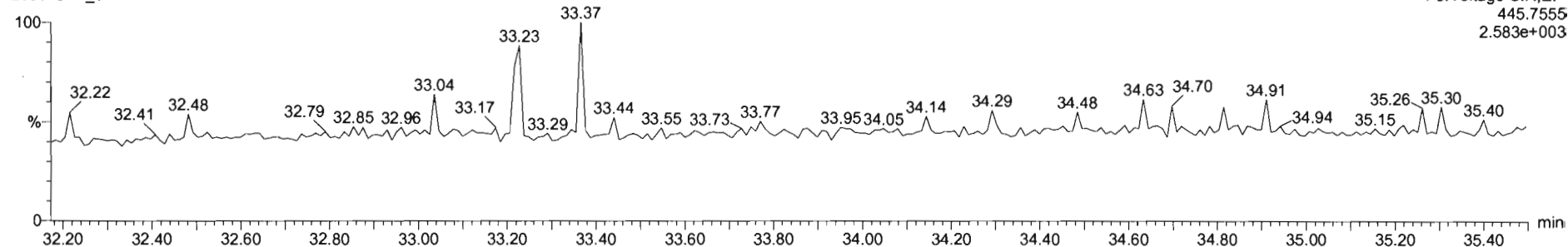


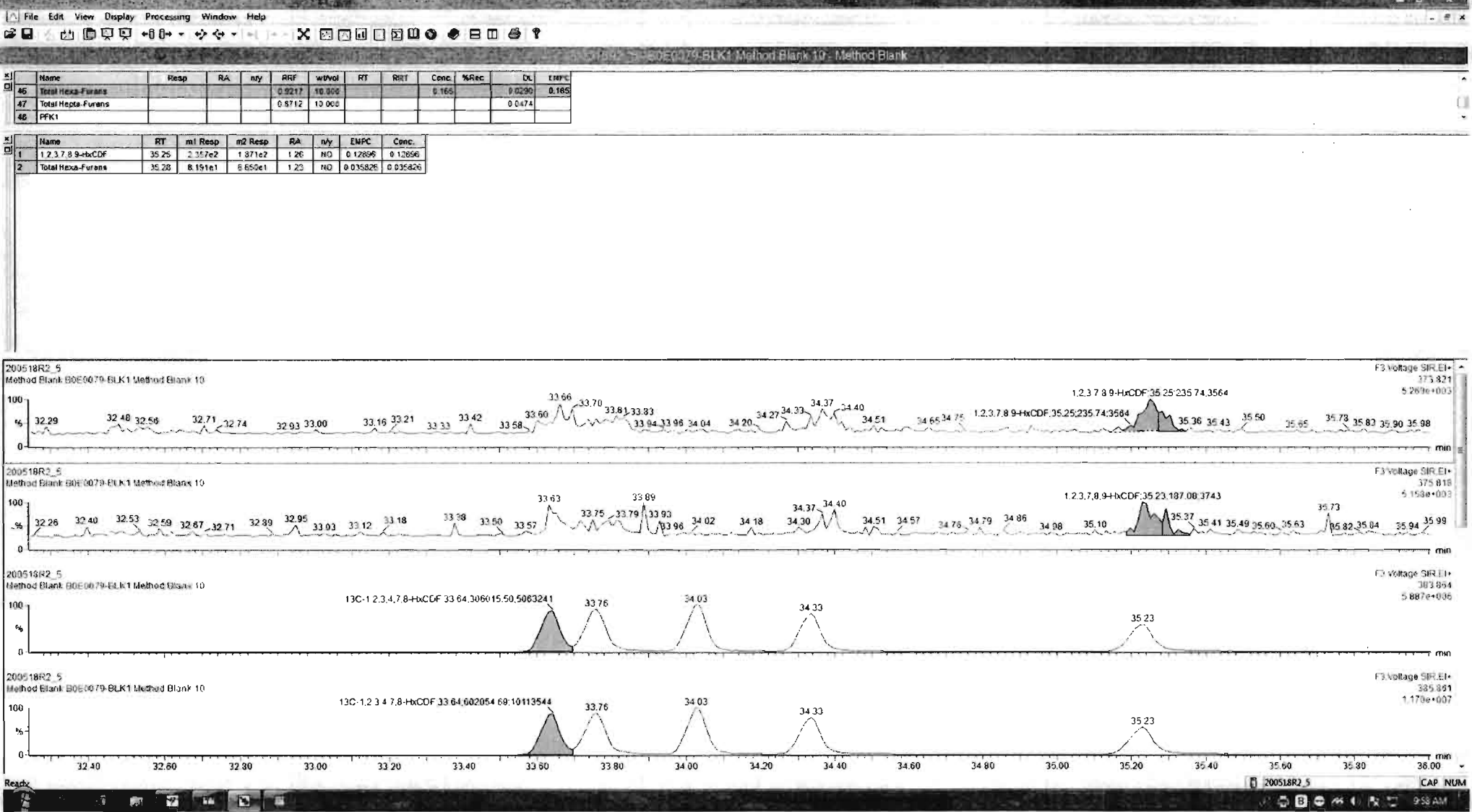
200518R2_5



DPE3

200518R2_5





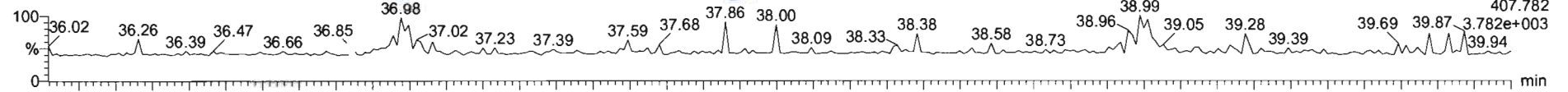
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Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

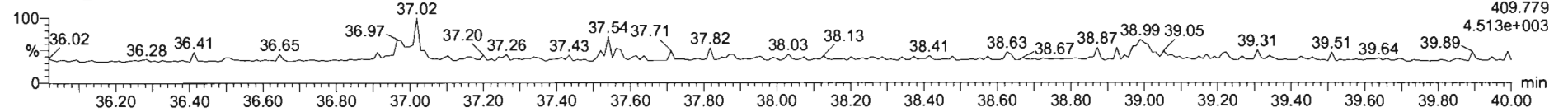
Name: 200518R2_5, Date: 18-May-2020, Time: 17:07:38, ID: B0E0079-BLK1 Method Blank 10, Description: Method Blank

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

200518R2_5

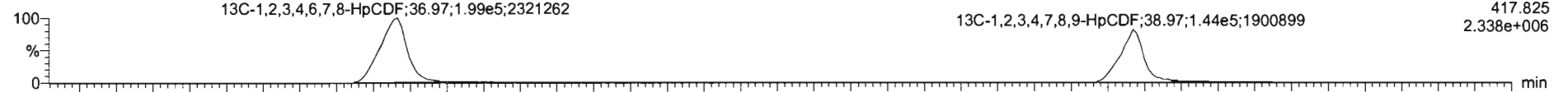


200518R2_5

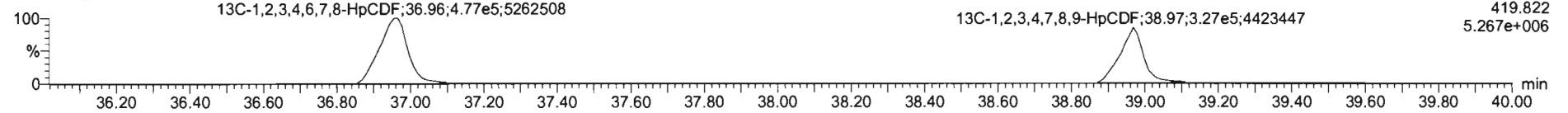


13C-1,2,3,4,6,7,8-HpCDF

200518R2_5

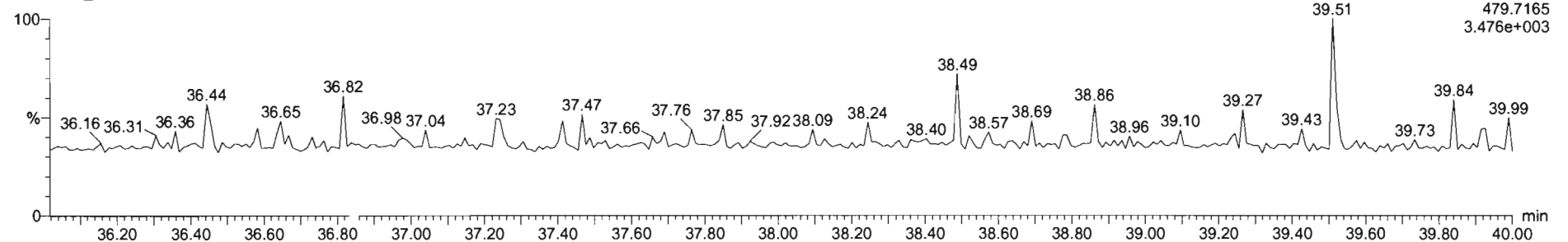


200518R2_5



DPE4

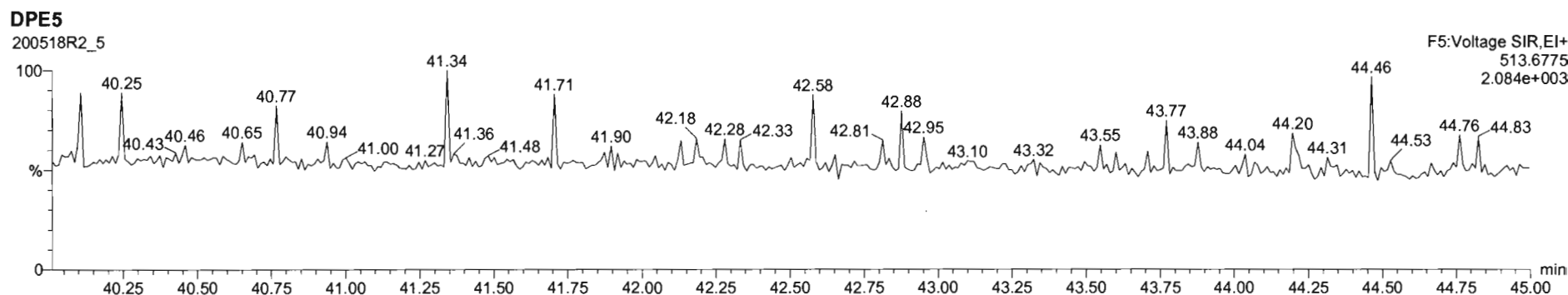
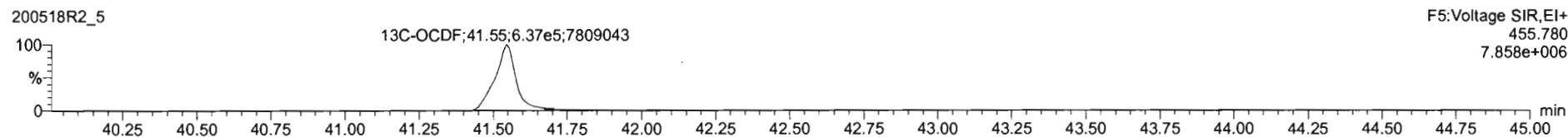
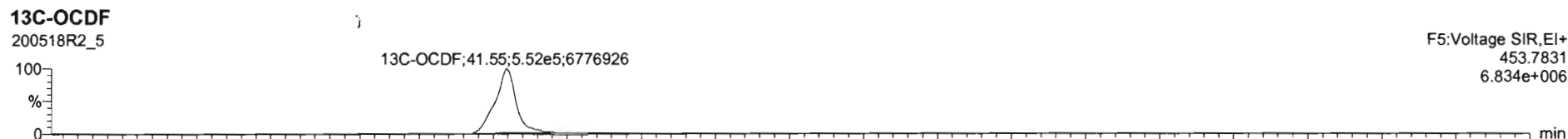
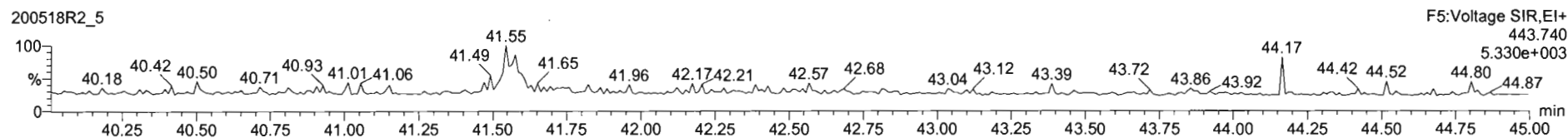
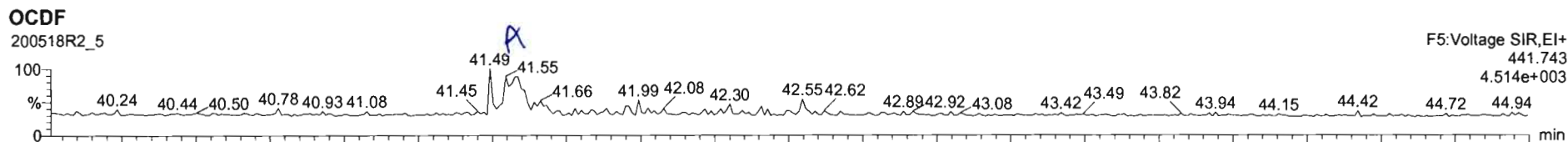
200518R2_5

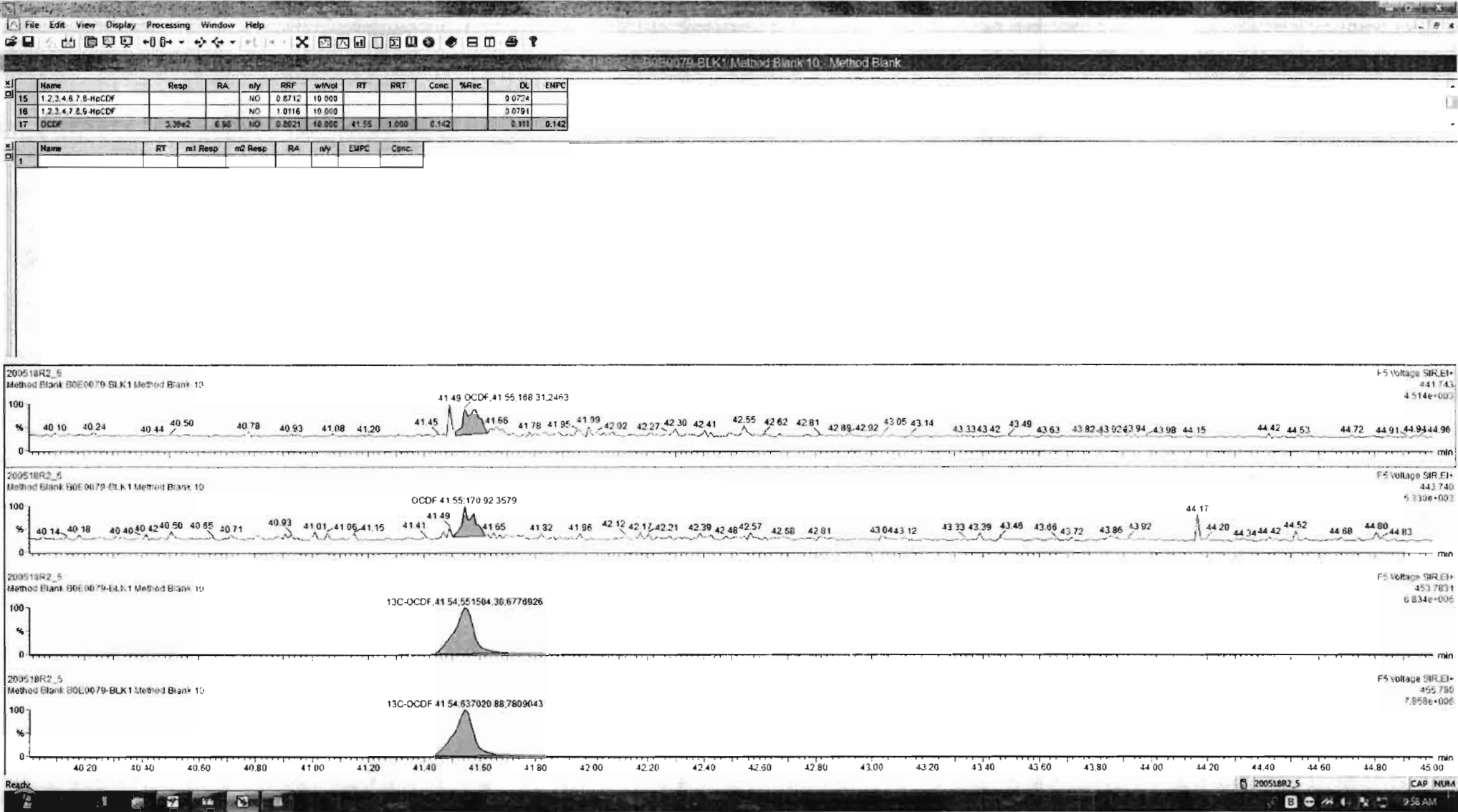


Dataset: Untitled

Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2_5, Date: 18-May-2020, Time: 17:07:38, ID: B0E0079-BLK1 Method Blank 10, Description: Method Blank



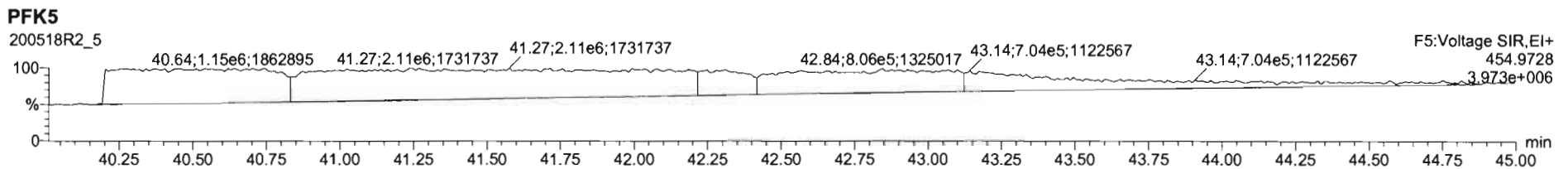
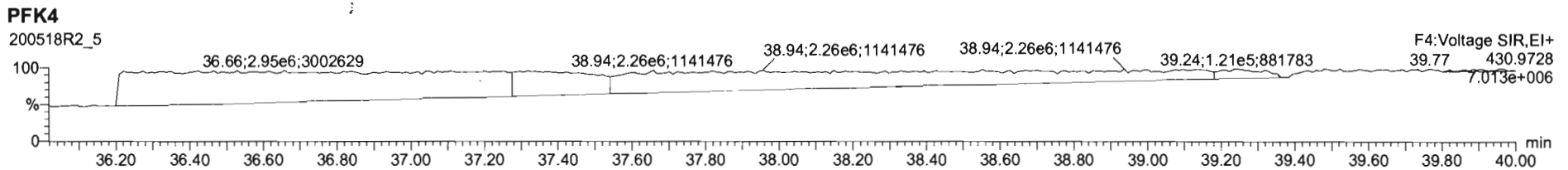
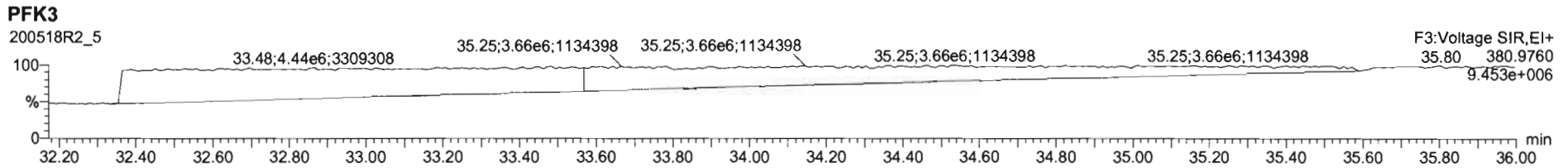
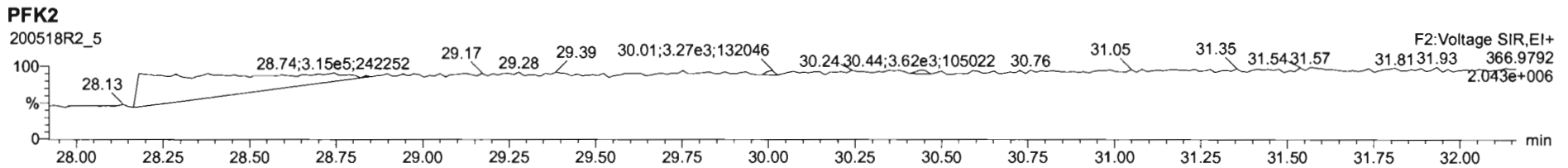
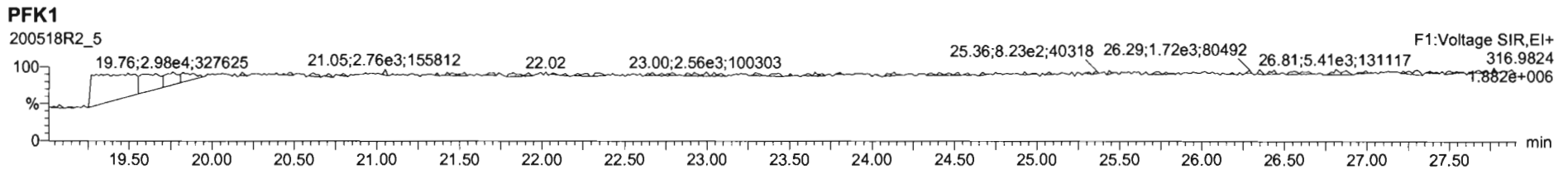


Dataset: Untitled

Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time

Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2_5, Date: 18-May-2020, Time: 17:07:38, ID: B0E0079-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200518R2\200518R2-3.qld

Last Altered: Tuesday, May 19, 2020 09:52:59 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 09:53:12 Pacific Daylight Time

GRB 05/19/2020

CT 05/22/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_3, Date: 18-May-2020, Time: 15:35:11, ID: B0E0079-BS1 OPR 10, Description: OPR

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.32e5	0.77	NO	0.947	10.000	26.066	26.07	1.001	1.001	17.654		0.0579	17.7
2	2 1,2,3,7,8-PeCDD	5.28e5	0.61	NO	0.942	10.000	31.147	31.14	1.001	1.000	90.092		0.116	90.1
3	3 1,2,3,4,7,8-HxCDD	4.94e5	1.24	NO	1.06	10.000	34.515	34.53	1.000	1.001	97.092		0.198	97.1
4	4 1,2,3,6,7,8-HxCDD	5.27e5	1.25	NO	0.915	10.000	34.612	34.62	1.000	1.000	98.347		0.201	98.3
5	5 1,2,3,7,8,9-HxCDD	4.21e5	1.26	NO	0.915	10.000	34.888	34.90	1.000	1.001	96.279		0.249	96.3
6	6 1,2,3,4,6,7,8-HpCDD	3.00e5	1.05	NO	0.898	10.000	38.394	38.40	1.000	1.001	99.432		0.262	99.4
7	7 OCDD	5.01e5	0.89	NO	0.933	10.000	41.364	41.38	1.000	1.000	195.23		0.311	195
8	8 2,3,7,8-TCDF	1.56e5	0.75	NO	0.787	10.000	25.132	25.14	1.001	1.001	19.556		0.0417	19.6
9	9 1,2,3,7,8-PeCDF	7.70e5	1.56	NO	0.910	10.000	29.834	29.83	1.001	1.001	95.274		0.166	95.3
10	10 2,3,4,7,8-PeCDF	7.96e5	1.55	NO	0.966	10.000	30.851	30.83	1.001	1.000	94.232		0.142	94.2
11	11 1,2,3,4,7,8-HxCDF	5.25e5	1.20	NO	0.878	10.000	33.643	33.65	1.000	1.000	105.27		0.208	105
12	12 1,2,3,6,7,8-HxCDF	6.03e5	1.21	NO	0.874	10.000	33.770	33.78	1.000	1.001	106.52		0.203	107
13	13 2,3,4,6,7,8-HxCDF	5.59e5	1.21	NO	0.922	10.000	34.369	34.36	1.001	1.001	105.93		0.224	106
14	14 1,2,3,7,8,9-HxCDF	4.24e5	1.22	NO	0.864	10.000	35.229	35.25	1.000	1.001	104.51		0.328	105
15	15 1,2,3,4,6,7,8-HpCDF	3.77e5	1.01	NO	0.871	10.000	37.003	36.98	1.001	1.000	106.88		0.274	107
16	16 1,2,3,4,7,8,9-HpCDF	3.01e5	1.00	NO	1.01	10.000	38.968	38.98	1.000	1.000	108.83		0.313	109
17	17 OCDF	5.69e5	0.89	NO	0.802	10.000	41.545	41.56	1.000	1.000	210.06		0.309	210
18	18 13C-2,3,7,8-TCDD	1.57e6	0.77	NO	1.16	10.000	26.031	26.03	1.026	1.027	177.92	89.0	0.161	
19	19 13C-1,2,3,7,8-PeCDD	1.24e6	0.63	NO	0.847	10.000	31.123	31.13	1.227	1.227	192.49	96.2	0.243	
20	20 13C-1,2,3,4,7,8-HxCDD	9.56e5	1.29	NO	0.750	10.000	34.517	34.51	1.014	1.014	189.24	94.6	0.265	
21	21 13C-1,2,3,6,7,8-HxCDD	1.17e6	1.26	NO	0.963	10.000	34.629	34.61	1.017	1.017	180.71	90.4	0.206	
22	22 13C-1,2,3,7,8,9-HxCDD	9.57e5	1.24	NO	0.838	10.000	34.898	34.88	1.025	1.025	169.64	84.8	0.237	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.73e5	1.05	NO	0.641	10.000	38.390	38.38	1.128	1.128	155.81	77.9	0.404	
24	24 13C-OCDD	1.10e6	0.90	NO	0.586	10.000	41.386	41.36	1.216	1.215	278.42	69.6	0.307	
25	25 13C-2,3,7,8-TCDF	2.03e6	0.77	NO	1.03	10.000	25.090	25.11	0.989	0.990	180.14	90.1	0.250	
26	26 13C-1,2,3,7,8-PeCDF	1.78e6	1.60	NO	0.845	10.000	29.812	29.81	1.176	1.176	192.95	96.5	0.363	
27	27 13C-2,3,4,7,8-PeCDF	1.75e6	1.61	NO	0.814	10.000	30.803	30.82	1.215	1.215	197.21	98.6	0.377	
28	28 13C-1,2,3,4,7,8-HxCDF	1.14e6	0.51	NO	1.00	10.000	33.656	33.64	0.989	0.988	167.83	83.9	0.421	
29	29 13C-1,2,3,6,7,8-HxCDF	1.30e6	0.51	NO	1.14	10.000	33.778	33.76	0.992	0.992	169.33	84.7	0.372	
30	30 13C-2,3,4,6,7,8-HxCDF	1.14e6	0.51	NO	1.02	10.000	34.347	34.33	1.009	1.009	166.30	83.2	0.414	
31	31 13C-1,2,3,7,8,9-HxCDF	9.38e5	0.50	NO	0.845	10.000	35.239	35.23	1.035	1.035	164.96	82.5	0.501	

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-3.qld

Last Altered: Tuesday, May 19, 2020 09:52:59 Pacific Daylight Time

Printed: Tuesday, May 19, 2020 09:53:12 Pacific Daylight Time

Name: 200518R2_3, Date: 18-May-2020, Time: 15:35:11, ID: B0E0079-BS1 OPR 10, Description: OPR

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	8.10e5	0.43	NO	0.771	10.000	36.971	36.97	1.086	1.086	156.04	78.0	0.374	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.48e5	0.42	NO	0.482	10.000	38.983	38.97	1.145	1.145	168.68	84.3	0.598	
34	34 13C-OCDF	1.35e6	0.88	NO	0.669	10.000	41.556	41.54	1.221	1.221	299.85	75.0	0.266	
35	35 37Cl-2,3,7,8-TCDD	6.01e5			1.10	10.000	26.061	26.07	1.028	1.028	71.678	89.6	0.0406	
36	36 13C-1,2,3,4-TCDD	1.53e6	0.79	NO	1.00	10.000	25.350	25.36	1.000	1.000	200.00	100	0.186	
37	37 13C-1,2,3,4-TCDF	2.18e6	0.79	NO	1.00	10.000	23.560	23.59	1.000	1.000	200.00	100	0.258	
38	38 13C-1,2,3,4,6,9-HxCDF	1.35e6	0.51	NO	1.00	10.000	34.000	34.04	1.000	1.000	200.00	100	0.423	
39	39 Total Tetra-Dioxins				0.947	10.000	24.620		0.000		17.654		0.0579	18.0
40	40 Total Penta-Dioxins				0.942	10.000	29.960		0.000		90.231		0.116	90.3
41	41 Total Hexa-Dioxins				0.915	10.000	33.635		0.000		291.83		0.225	292
42	42 Total Hepta-Dioxins				0.898	10.000	37.640		0.000		100.38		0.262	100
43	43 Total Tetra-Furans				0.787	10.000	23.610		0.000		19.649		0.0417	19.6
44	44 1st Func. Penta-Furans				0.910	10.000	27.090		0.000				0.00865	
45	45 Total Penta-Furans				0.910	10.000	29.275		0.000		191.03		0.158	191
46	46 Total Hexa-Furans				0.922	10.000	33.555		0.000		422.47		0.226	422
47	47 Total Hepta-Furans				0.871	10.000	37.835		0.000		215.71		0.310	216

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-3.qld

Last Altered: Tuesday, May 19, 2020 09:52:59 Pacific Daylight Time

Printed: Tuesday, May 19, 2020 09:53:12 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_3, Date: 18-May-2020, Time: 15:35:11, ID: B0E0079-BS1 OPR 10, Description: OPR

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	25.76	1.274e4	1.561e4	1.385e3	1.551e3	0.89	YES	0.000e0	0.00000	0.36809	0.0579
2	2,3,7,8-TCDD	26.07	8.187e5	1.064e6	5.715e4	7.453e4	0.77	NO	1.317e5	17.654	17.654	0.0579

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	30.70	7.162e3	8.074e3	3.244e2	4.945e2	0.66	NO	8.189e2	0.13962	0.13962	0.116
2	1,2,3,7,8-PeCDD	31.14	3.552e6	5.770e6	2.010e5	3.274e5	0.61	NO	5.284e5	90.092	90.092	0.116
3	Total Penta-Dioxins	31.54	6.160e3	1.201e4	2.104e2	8.507e2	0.25	YES	0.000e0	0.00000	0.092813	0.116

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.83	3.602e3	3.971e3	2.177e2	2.433e2	0.89	YES	0.000e0	0.00000	0.083656	0.225
2	1,2,3,4,7,8-HxCDD	34.53	4.452e6	3.561e6	2.732e5	2.204e5	1.24	NO	4.936e5	97.092	97.092	0.198
3	1,2,3,6,7,8-HxCDD	34.62	4.391e6	3.520e6	2.927e5	2.342e5	1.25	NO	5.269e5	98.347	98.347	0.201
4	1,2,3,7,8,9-HxCDD	34.90	3.548e6	2.868e6	2.346e5	1.867e5	1.26	NO	4.213e5	96.279	96.279	0.249
5	Total Hexa-Dioxins	35.22	7.894e3	5.238e3	2.776e2	2.508e2	1.11	NO	5.284e2	0.11242	0.11242	0.225

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.37	1.806e4	1.953e4	1.413e3	1.438e3	0.98	NO	2.851e3	0.94367	0.94367	0.262
2	1,2,3,4,6,7,8-HpCDD	38.40	1.892e6	1.799e6	1.540e5	1.464e5	1.05	NO	3.004e5	99.432	99.432	0.262

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	24.12	4.533e3	5.123e3	3.251e2	4.186e2	0.78	NO	7.437e2	0.093113	0.093113	0.0417
2	2,3,7,8-TCDF	25.14	8.907e5	1.149e6	6.669e4	8.951e4	0.75	NO	1.562e5	19.556	19.556	0.0417

Vista Analytical Laboratory

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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
1												

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.84	1.884e4	1.251e4	1.451e3	8.865e2	1.64	NO	2.337e3	0.29143	0.29143	0.158
2	Total Penta-Furans	29.49	6.118e3	5.316e3	3.105e2	6.338e2	0.49	YES	0.000e0	0.00000	0.063694	0.158
3	Total Penta-Furans	29.63	1.303e4	1.367e4	7.242e2	6.622e2	1.09	YES	0.000e0	0.00000	0.14857	0.158
4	1,2,3,7,8-PeCDF	29.83	8.104e6	5.300e6	4.689e5	3.011e5	1.56	NO	7.700e5	95.274	95.274	0.166
5	Total Penta-Furans	30.10	5.659e4	3.629e4	3.740e3	2.529e3	1.48	NO	6.268e3	0.78165	0.78165	0.158
6	2,3,4,7,8-PeCDF	30.83	8.808e6	5.706e6	4.833e5	3.128e5	1.55	NO	7.961e5	94.232	94.232	0.142
7	Total Penta-Furans	31.78	2.773e4	2.124e4	2.167e3	1.464e3	1.48	NO	3.631e3	0.45275	0.45275	0.158

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.65	1.291e4	1.074e4	7.169e2	5.061e2	1.42	NO	1.223e3	0.23514	0.23514	0.226
2	1,2,3,4,7,8-HxCDF	33.65	5.332e6	4.506e6	2.868e5	2.381e5	1.20	NO	5.249e5	105.27	105.27	0.208
3	1,2,3,6,7,8-HxCDF	33.78	5.600e6	4.582e6	3.299e5	2.734e5	1.21	NO	6.033e5	106.52	106.52	0.203
4	2,3,4,6,7,8-HxCDF	34.36	5.057e6	4.158e6	3.063e5	2.525e5	1.21	NO	5.588e5	105.93	105.93	0.224
5	1,2,3,7,8,9-HxCDF	35.25	3.272e6	2.743e6	2.332e5	1.905e5	1.22	NO	4.237e5	104.51	104.51	0.328

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.98	2.407e6	2.404e6	1.897e5	1.875e5	1.01	NO	3.772e5	106.88	106.88	0.274
2	Total Hepta-Furans	37.38	6.830e3	9.051e3	4.817e2	3.203e2	1.50	YES	0.000e0	0.00000	0.22089	0.310
3	Total Hepta-Furans	37.59	8.817e3	1.002e4	3.573e2	6.177e2	0.58	YES	0.000e0	0.00000	0.23694	0.310
4	1,2,3,4,7,8,9-HpCDF	38.98	2.159e6	2.190e6	1.508e5	1.507e5	1.00	NO	3.015e5	108.83	108.83	0.313

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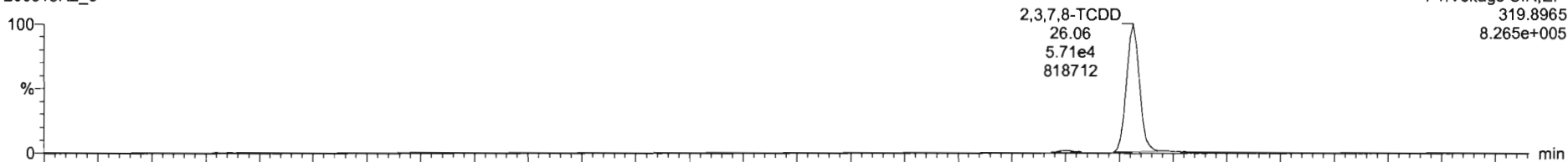
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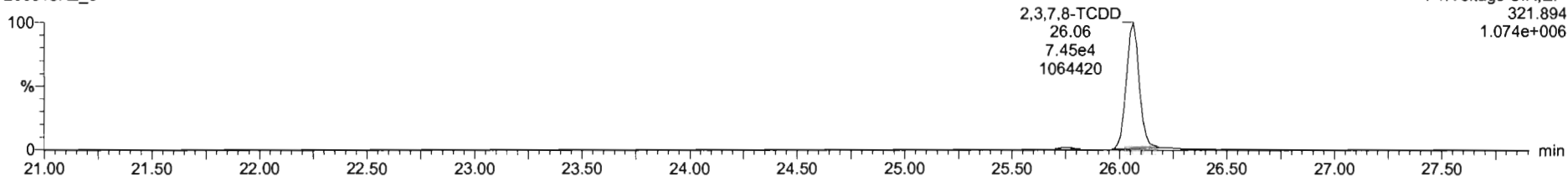
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2,3,7,8-TCDD

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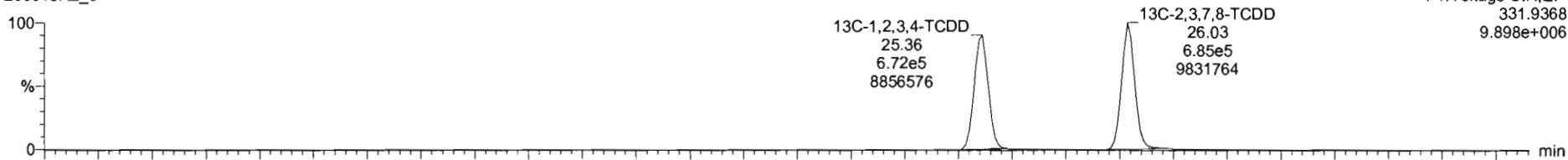


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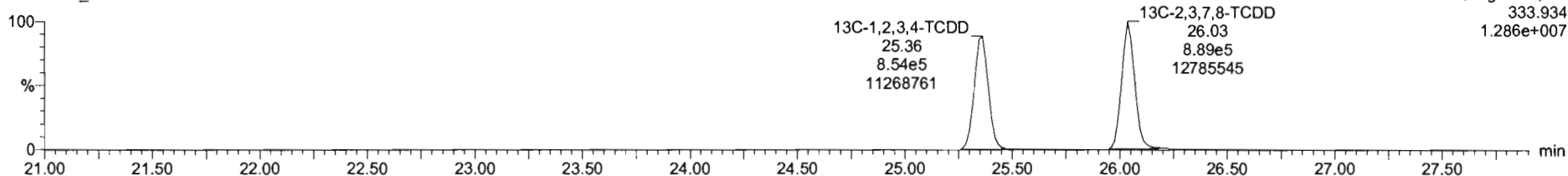


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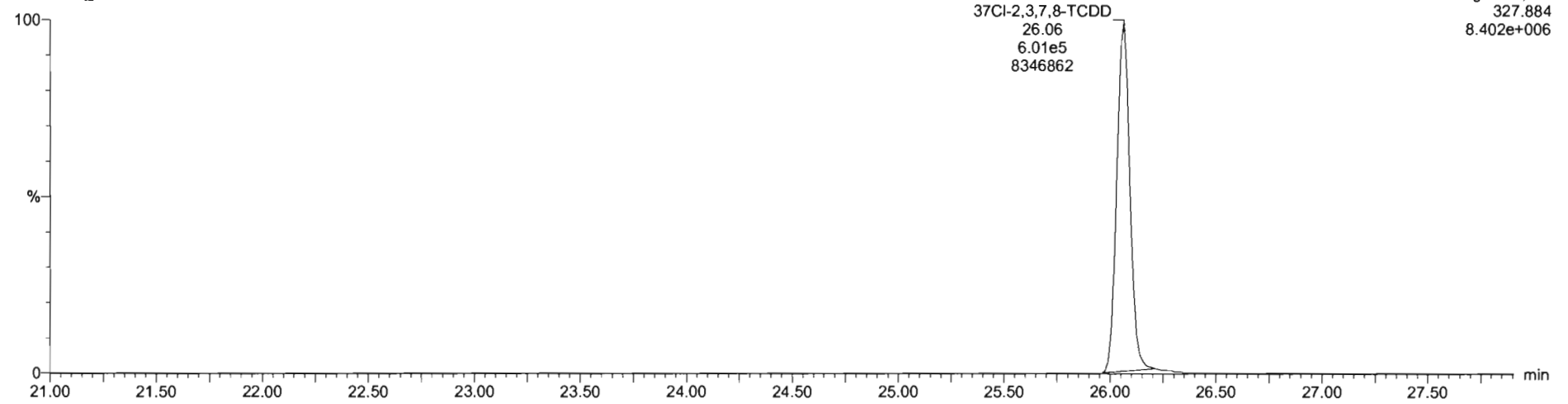
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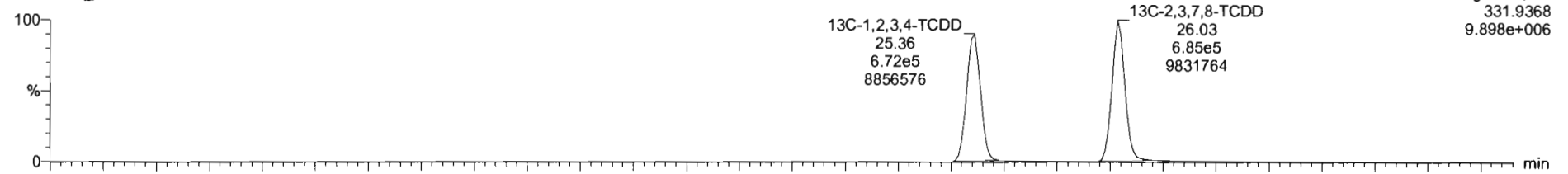
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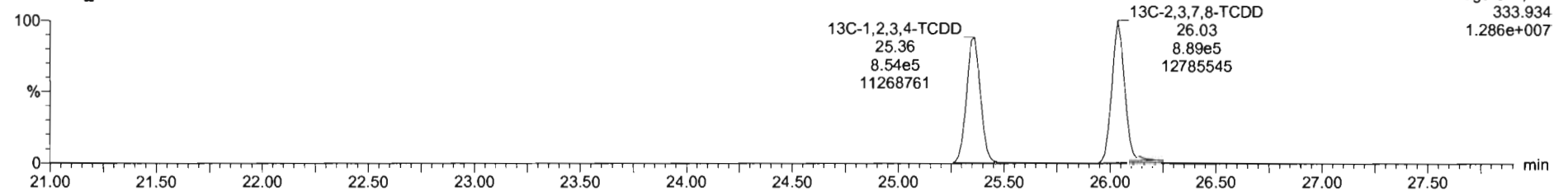


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200518R2_3



200518R2_3



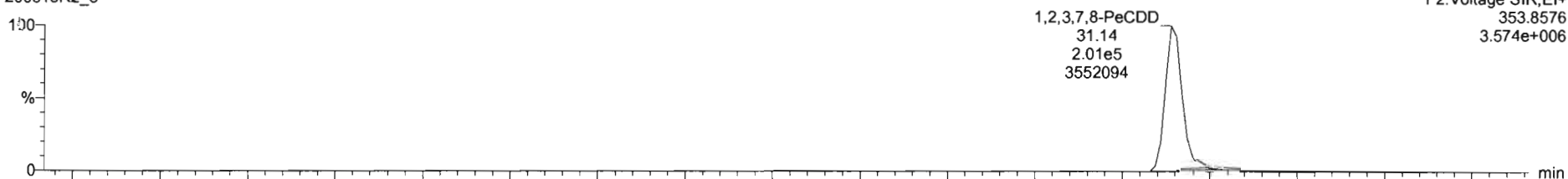
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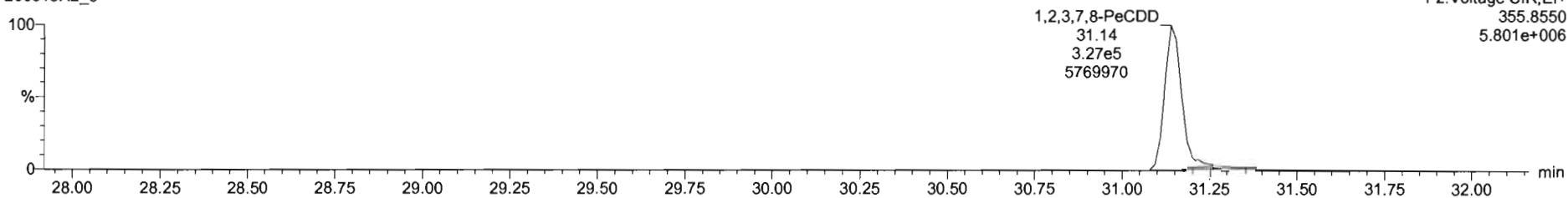
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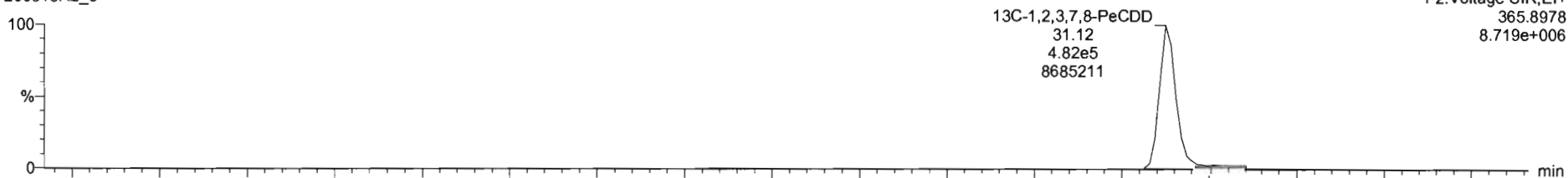


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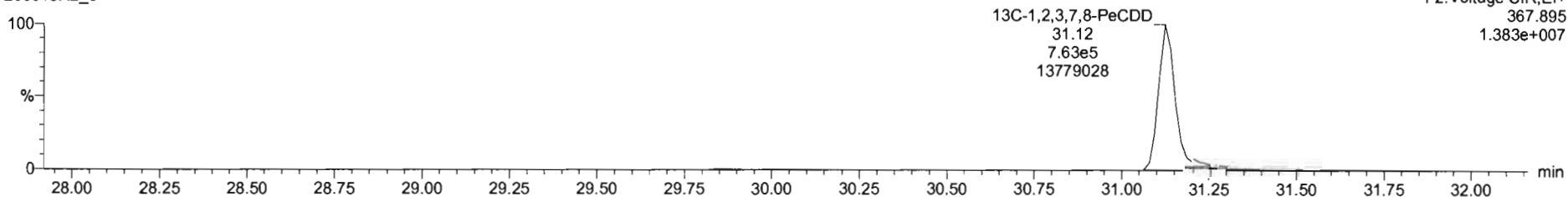


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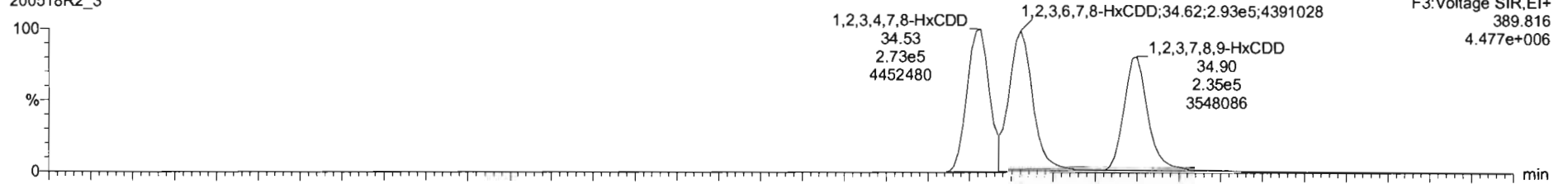
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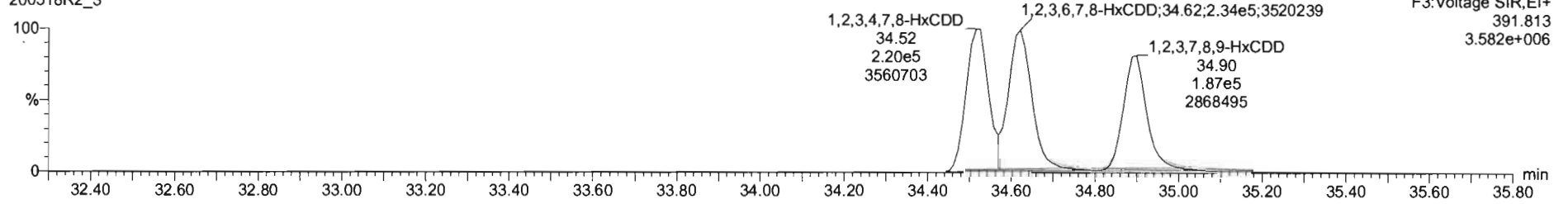
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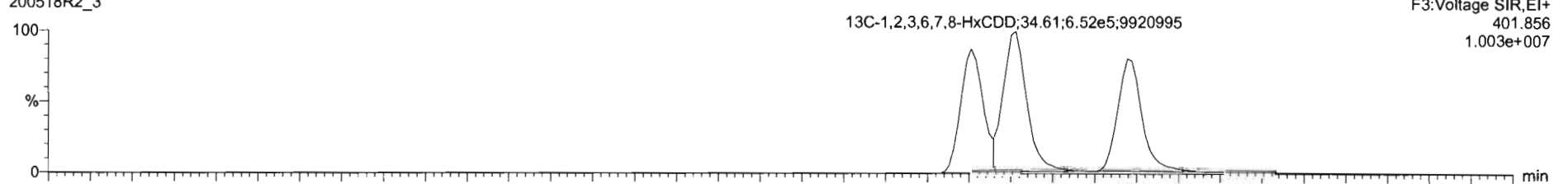


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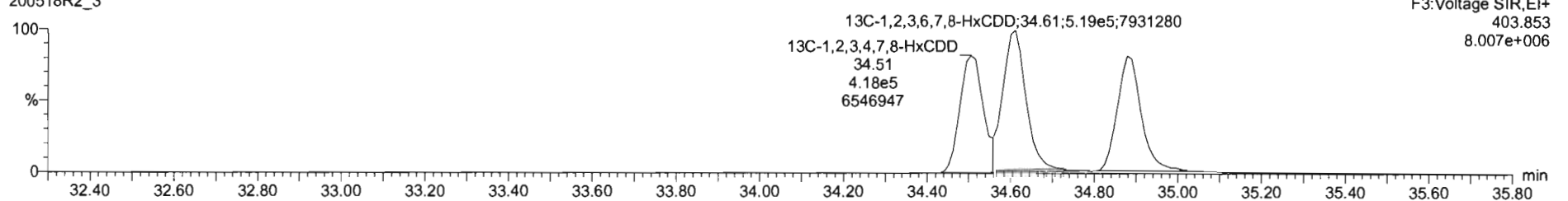


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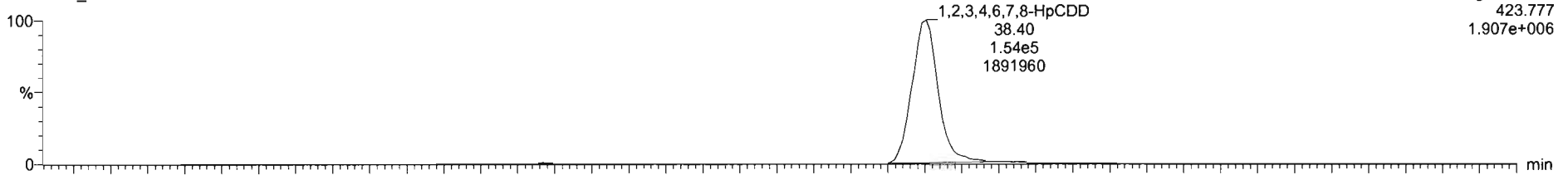
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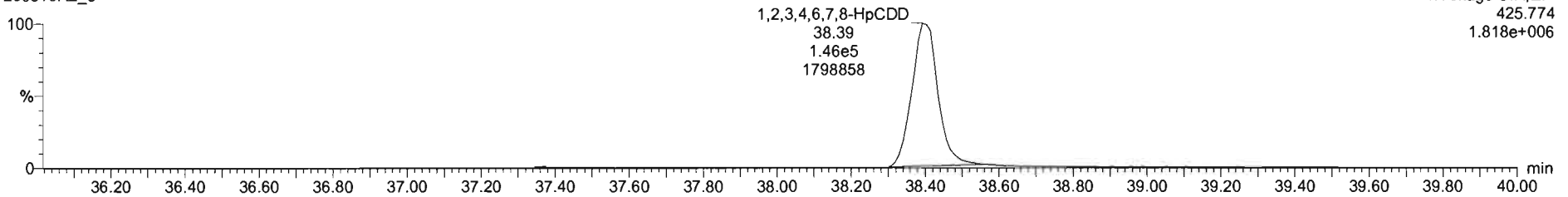
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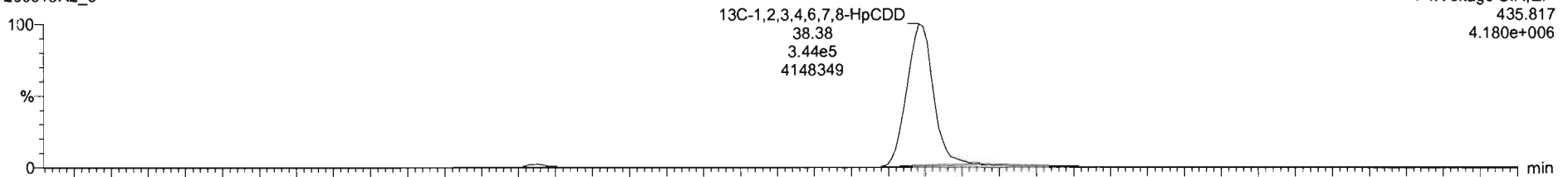


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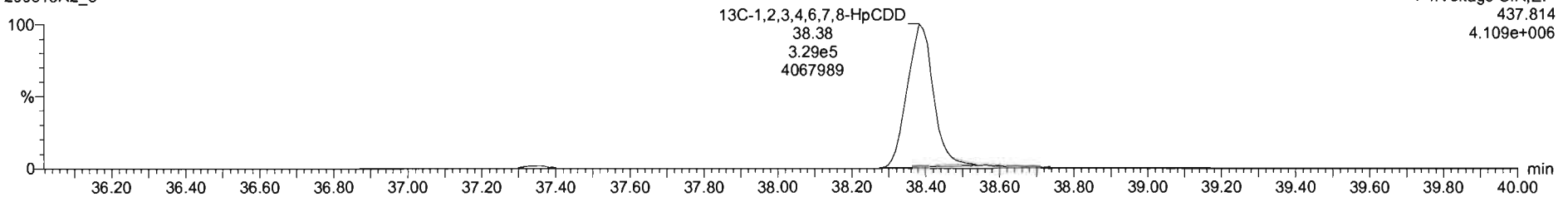


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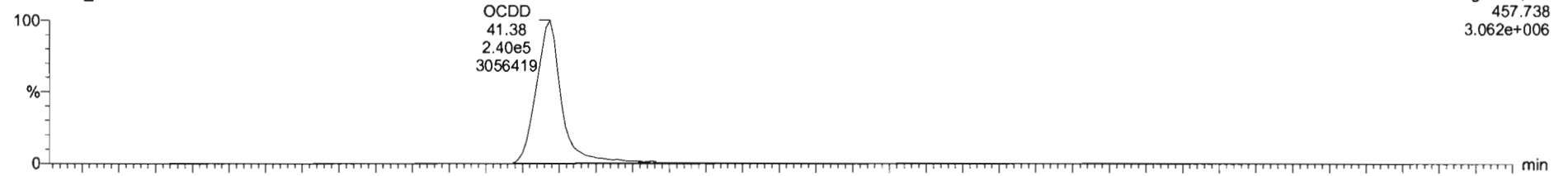
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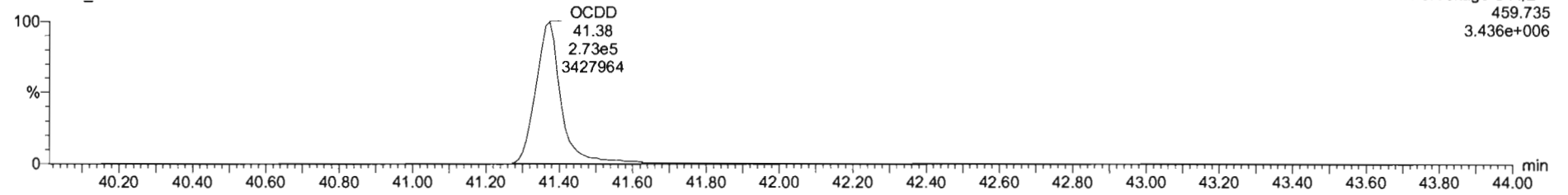
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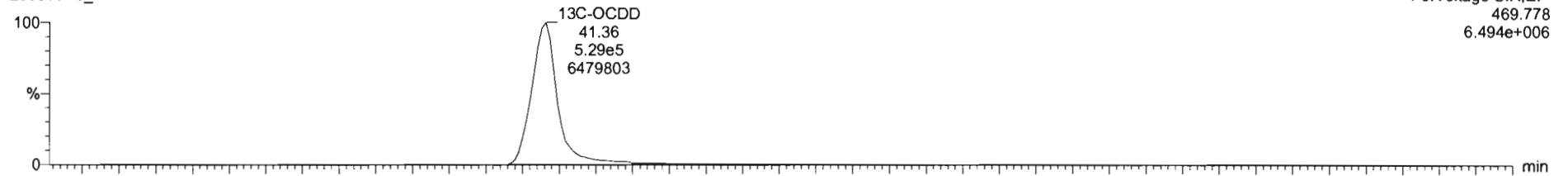


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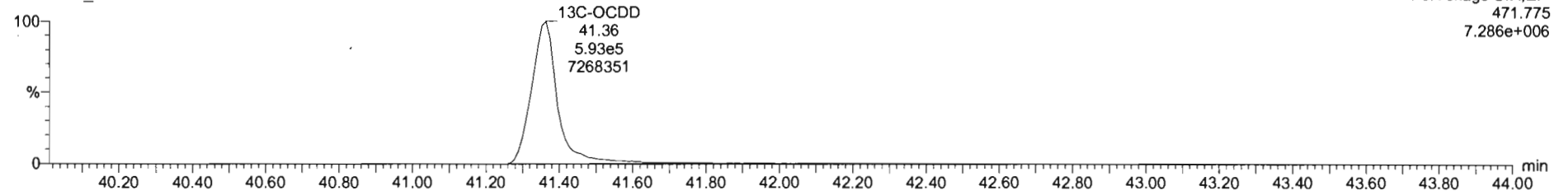


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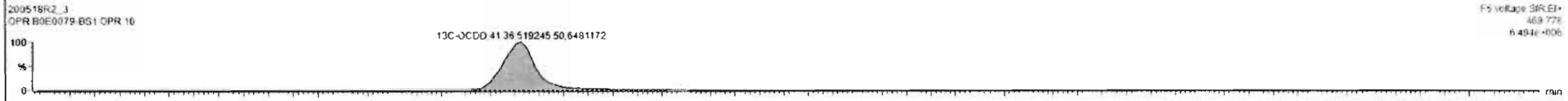
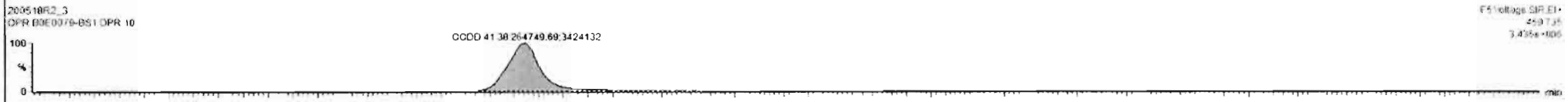
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200518R2_3



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1 2,3,7,8-TCDD	1.32e5	0.77	NO	0.9475	10.000	26.07	1.001	17.7		0.0579	17.7
2 1,2,3,7,8-PeCDD	5.28e5	0.61	NO	0.9425	10.000	31.14	1.000	90.1		0.116	90.1
3 1,2,3,4,7,8-HxCDD	4.94e5	1.24	NO	1.0641	10.000	34.53	1.001	97.1		0.190	97.1
4 1,2,3,6,7,8-HxCDD	5.27e5	1.25	NO	0.9145	10.000	34.62	1.000	98.3		0.201	98.3
5 1,2,3,7,8,9-HxCDD	4.21e5	1.26	NO	0.9145	10.000	34.90	1.001	96.3		0.249	96.3
6 1,2,3,4,6,7,8-HpCDD	3.08e5	1.05	NO	0.8979	10.000	36.40	1.001	99.4		0.262	99.4
7 OCDD	5.01e5	0.89	NO	0.9335	10.000	41.38	1.000	195		0.311	195
8 2,3,7,8-TCDF	1.56e5	0.75	NO	0.7871	10.000	25.14	1.001	19.6		0.0417	19.6
9 1,2,3,7,8-PeCDF	7.70e5	1.58	NO	0.9102	10.000	29.83	1.001	95.3		0.166	95.3
10 2,3,4,7,8-HxCDF	7.95e5	1.55	NO	0.9654	10.000	30.83	1.000	94.2		0.142	94.2
11 1,2,3,4,7,8-HxCDF	5.25e5	1.20	NO	0.8782	10.000	33.65	1.000	105		0.206	105
12 1,2,3,6,7,8-HxCDF	6.03e5	1.21	NO	0.8740	10.000	33.78	1.001	107		0.203	107
13 2,3,4,6,7,8-HxCDF	5.73e5	1.27	NO	0.9217	10.000	34.36	1.001	109		0.224	109
14 1,2,3,7,8,9-HxCDF	4.24e5	1.22	NO	0.8642	10.000	35.25	1.001	105		0.326	105
15 1,2,3,4,6,7,8-HpCDF	3.77e5	1.01	NO	0.8712	10.000	36.98	1.000	107		0.274	107
16 1,2,3,4,7,8,9-HpCDF	3.01e5	1.00	NO	1.0116	10.000	38.98	1.000	107		0.322	107
17 OCDF	5.69e5	0.89	NO	0.8021	10.000	41.56	1.000	205		0.302	205
18 13C-2,3,7,8-TCDD	1.57e6	0.77	NO	1.1595	10.000	26.03	1.027	178	89.0	0.161	
19 13C-1,2,3,7,8-PeCDD	1.24e6	0.63	NO	0.8472	10.000	31.13	1.227	192	96.2	0.243	
20 13C-1,2,3,4,7,8-HxCDD	9.58e5	1.29	NO	0.7499	10.000	34.51	1.014	189	94.6	0.265	
21 13C-1,2,3,6,7,8-HxCDD	1.17e6	1.26	NO	0.9630	10.000	34.61	1.017	181	90.4	0.206	



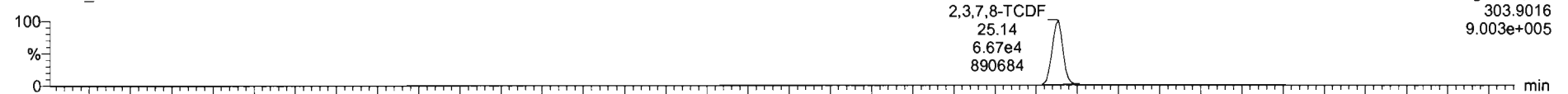
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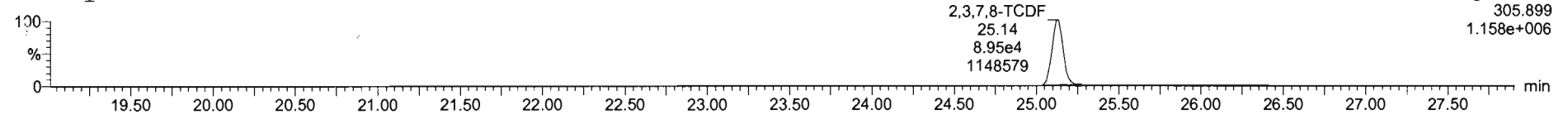
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2,3,7,8-TCDF

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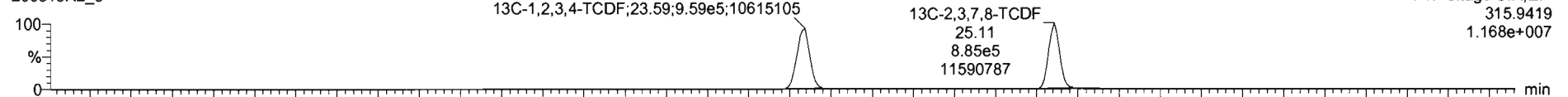


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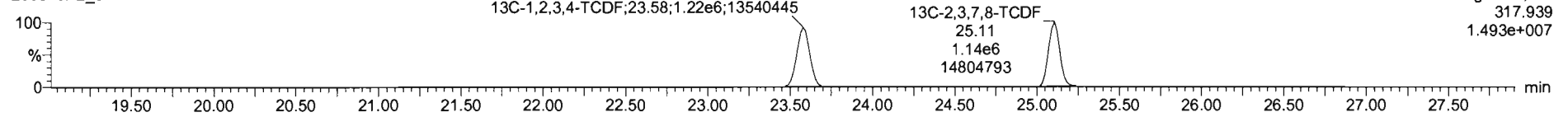


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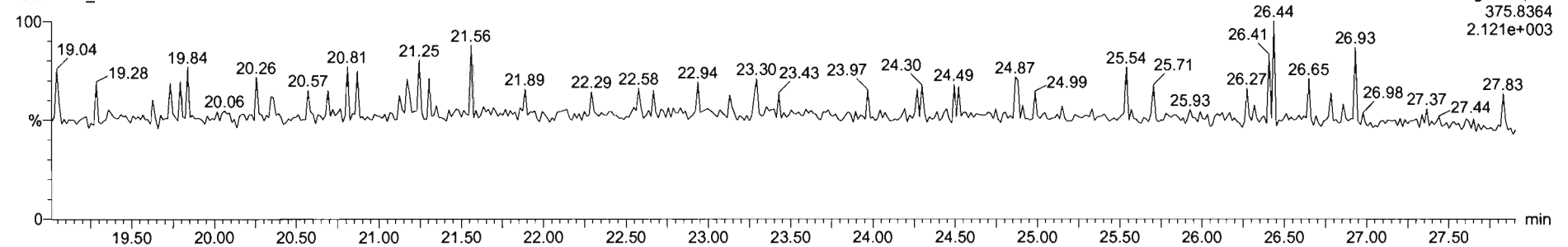


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DPE1

200518R2_3



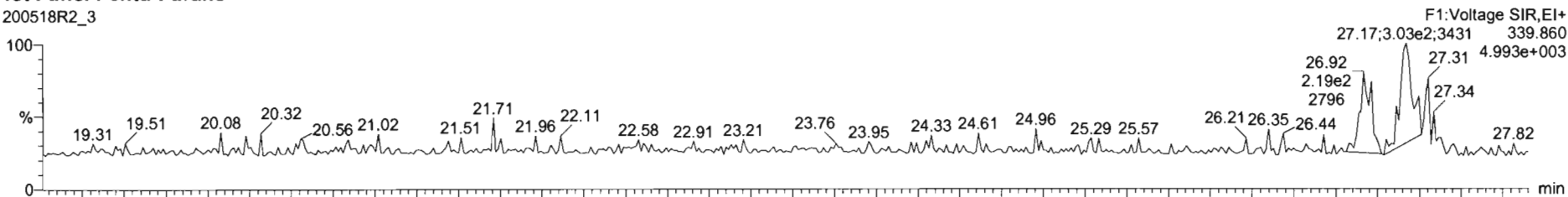
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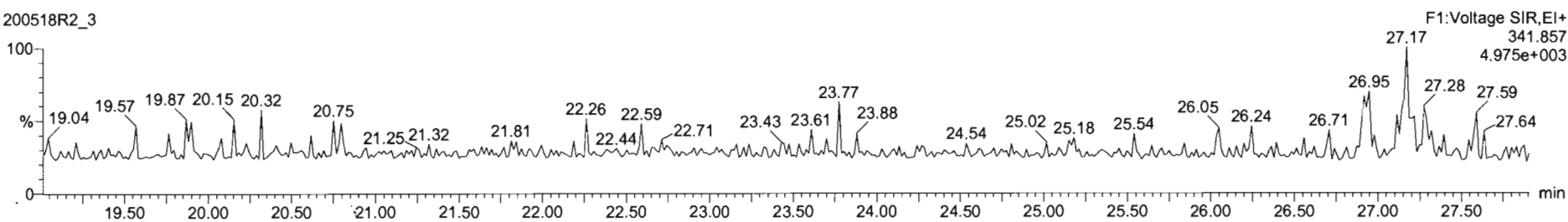
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1st Func. Penta-Furans

200518R2_3

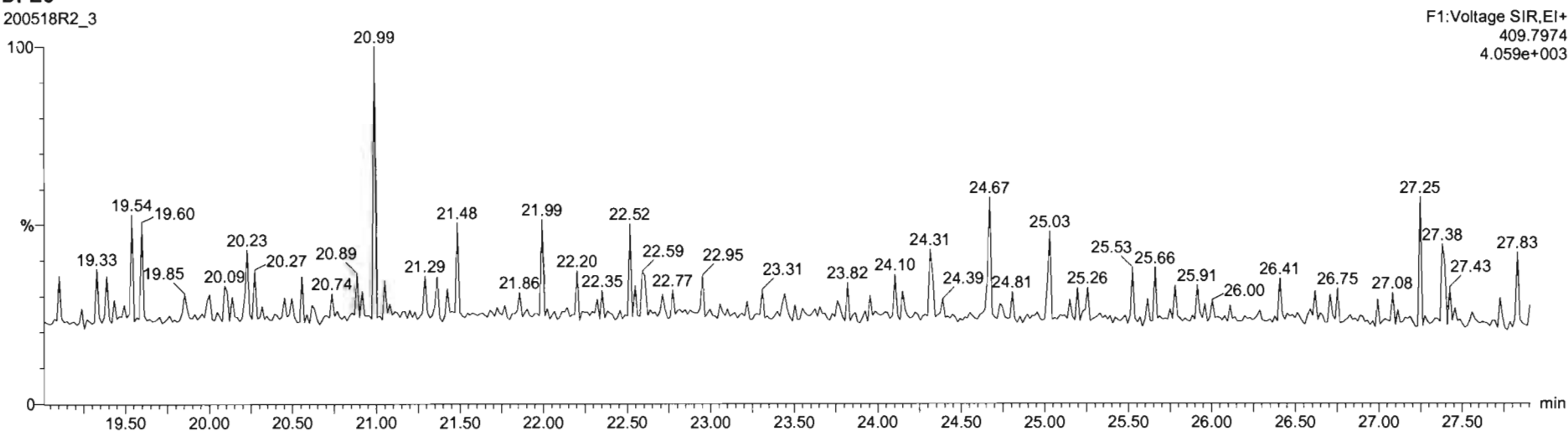


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DPE6

200518R2_3



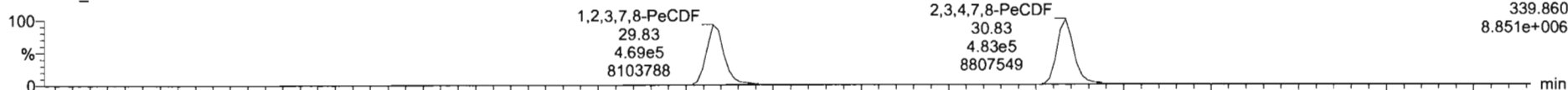
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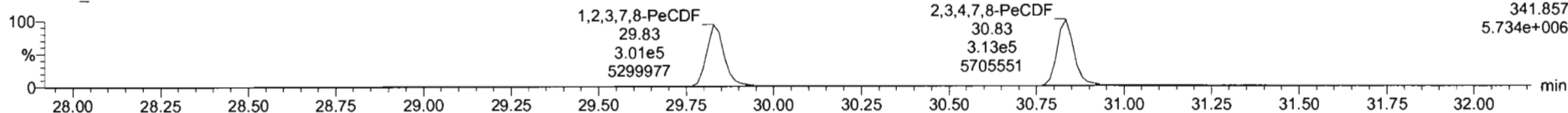
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1,2,3,7,8-PeCDF

200518R2_3

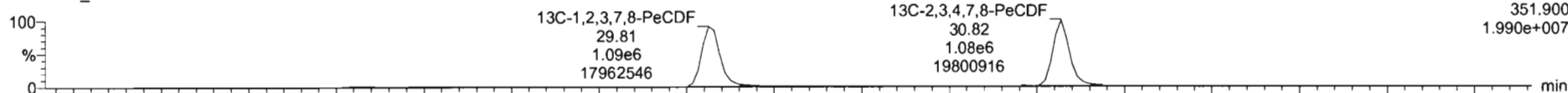


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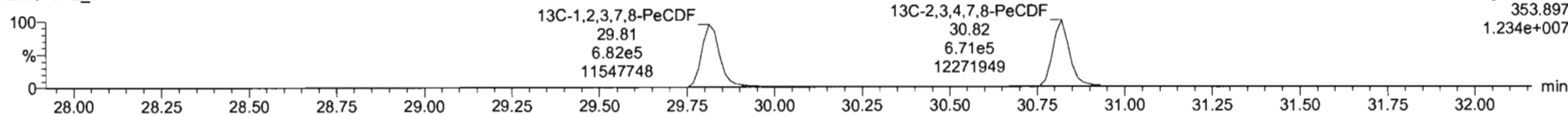


13C-1,2,3,7,8-PeCDF

200518R2_3

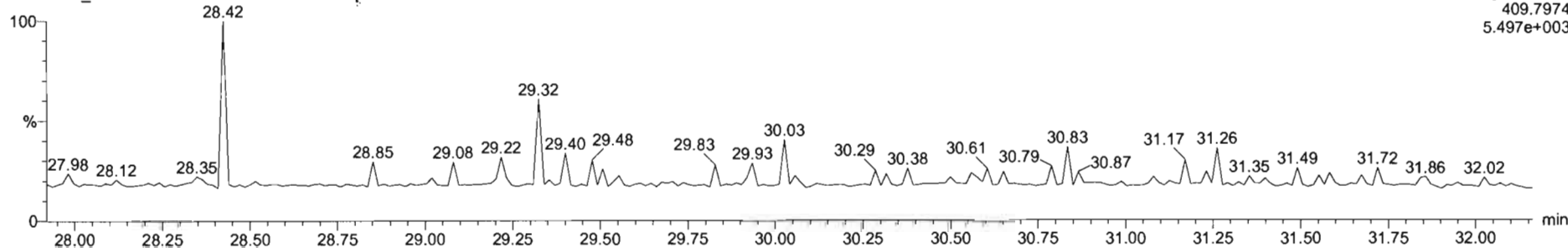


200518R2_3



DPE2

200518R2_3



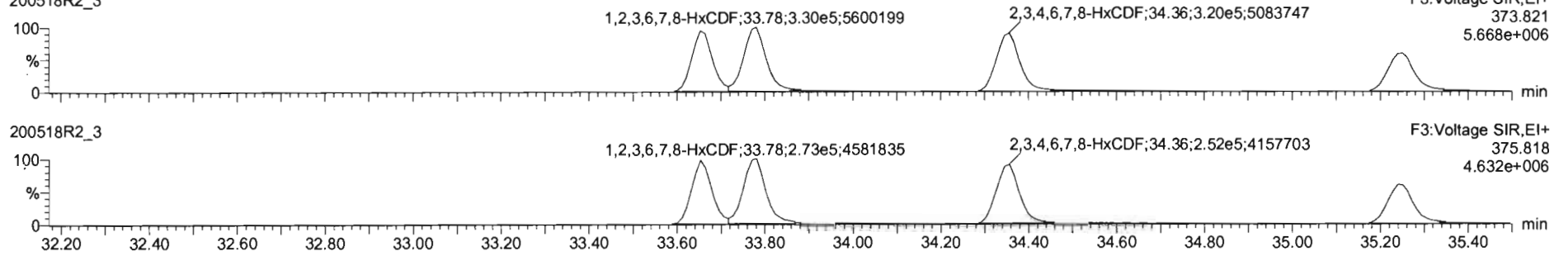
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Name: 200518R2_3, Date: 18-May-2020, Time: 15:35:11, ID: B0E0079-BS1 OPR 10, Description: OPR

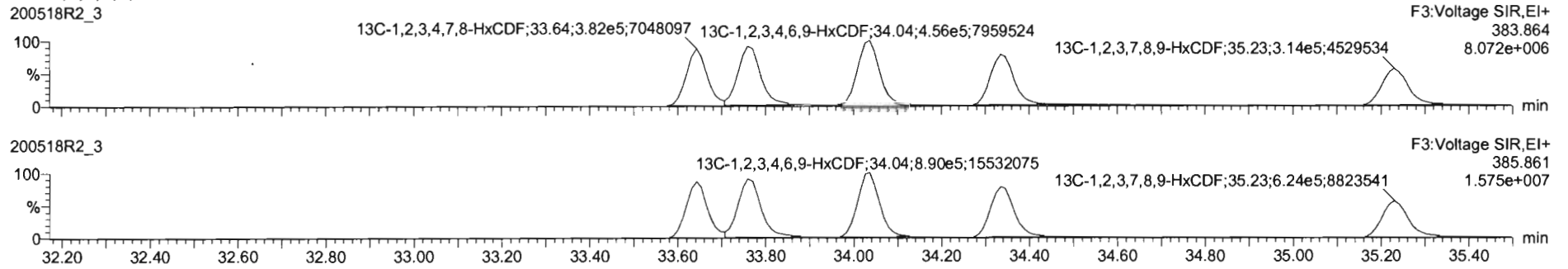
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200518R2_3



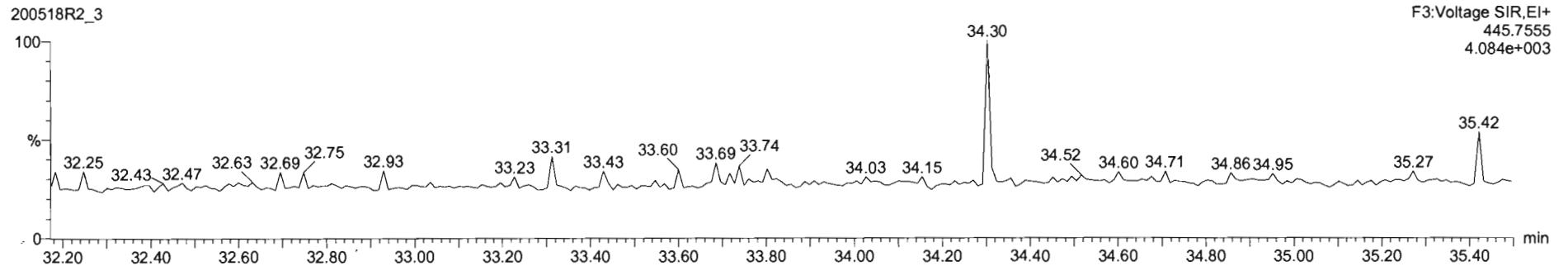
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200518R2_3

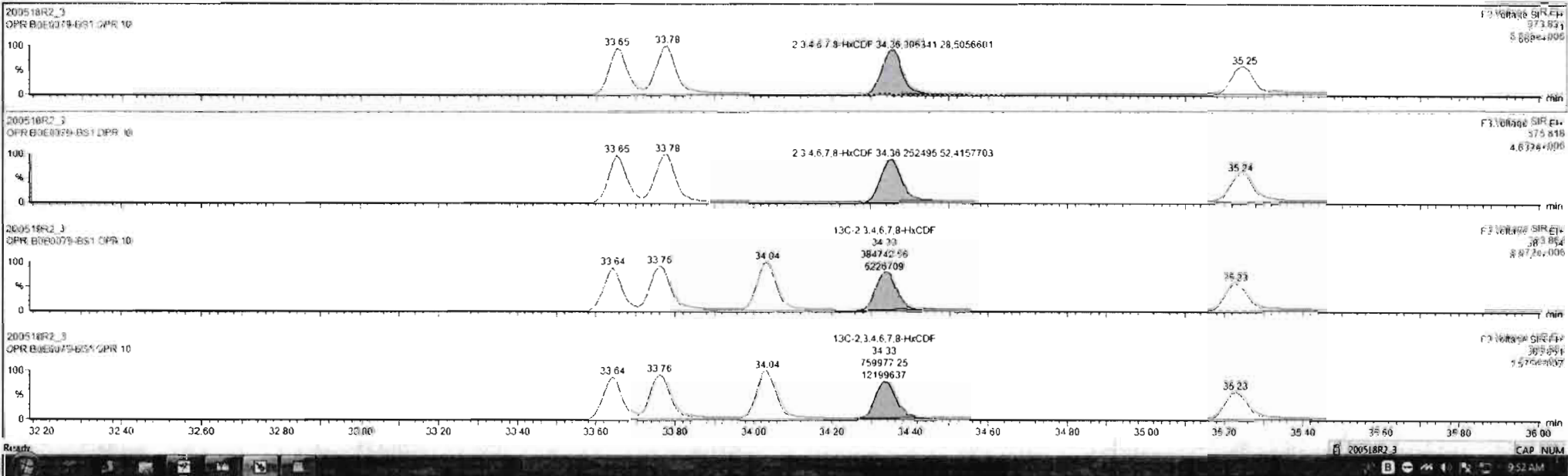


DPE3

200518R2_3



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec.	DL	EMPC
1 2,3,7,8-TCDD	1.32e5	0.77	NO	0.9475	10.000	25.97	1.001	17.7		0.0579	17.7
2 1,2,3,7,8-PeCDD	5.28e5	0.61	NO	0.9425	10.000	31.14	1.000	90.1		0.116	90.1
3 1,2,3,4,7,8-HxCDD	4.94e5	1.24	NO	1.0641	10.000	34.53	1.001	97.1		0.198	97.1
4 1,2,3,6,7,8-HxCDD	5.27e5	1.25	NO	0.9145	10.000	34.62	1.000	98.3		0.201	98.3
5 1,2,3,7,8,9-HxCDD	4.21e5	1.26	NO	0.9149	10.000	34.90	1.001	95.3		0.249	95.3
6 1,2,3,4,6,7,8-HpCDD	3.00e5	1.05	NO	0.8979	10.000	36.40	1.001	99.4		0.262	99.4
7 OCDD	5.01e5	0.89	NO	0.9335	10.000	41.36	1.000	195		0.311	195
8 2,3,7,8-TCDF	1.56e5	0.75	NO	0.7871	10.000	25.14	1.001	19.6		0.0417	19.6
9 1,2,3,7,8-PeCDF	7.78e5	1.56	NO	0.9102	10.000	29.83	1.001	95.3		0.186	95.3
10 2,3,4,7,8-PeCDF	7.96e5	1.55	NO	0.9684	10.000	30.83	1.000	94.2		0.142	94.2
11 1,2,3,4,7,8-HxCDF	5.25e5	1.20	NO	0.8782	10.000	33.65	1.000	105		0.206	105
12 1,2,3,6,7,8-HxCDF	6.03e5	1.21	NO	0.8740	10.000	33.78	1.001	107		0.203	107
13 2,3,4,6,7,8-HxCDF	5.56e5	1.21	NO	0.9217	10.000	34.36	1.001	106		0.224	106
14 1,2,3,7,8,9-HxCDF	4.24e5	1.22	NO	0.8642	10.000	35.25	1.001	105		0.328	105
15 1,2,3,4,5,7,8-HpCDF	3.77e5	1.01	NO	0.8712	10.000	36.95	1.000	107		0.274	107
16 1,2,3,4,7,8,9-HpCDF	3.01e5	1.00	NO	1.0116	10.000	38.88	1.000	107		0.322	107
17 OCDF	5.69e5	0.89	NO	0.8021	10.000	41.56	1.000	205		0.302	205
18 13C-2,3,7,8-TCDD	1.57e6	0.77	NO	1.1595	10.000	26.03	1.027	178	89.0	0.161	
19 13C-1,2,3,7,8-PeCDD	1.24e6	0.63	NO	0.8472	10.000	31.13	1.227	192	95.2	0.243	
20 13C-1,2,3,4,7,8-HxCDD	9.55e5	1.29	NO	0.7459	10.000	24.51	1.014	189	94.6	0.265	
21 13C-1,2,3,6,7,8-HxCDD	1.17e6	1.26	NO	0.9630	10.000	34.61	1.017	161	90.4	0.206	



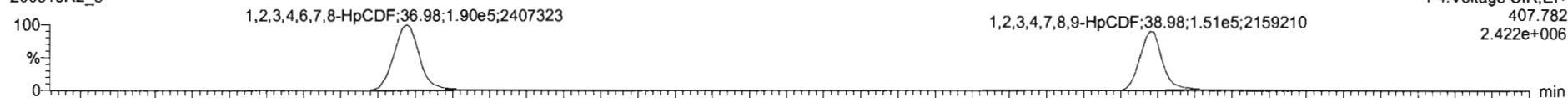
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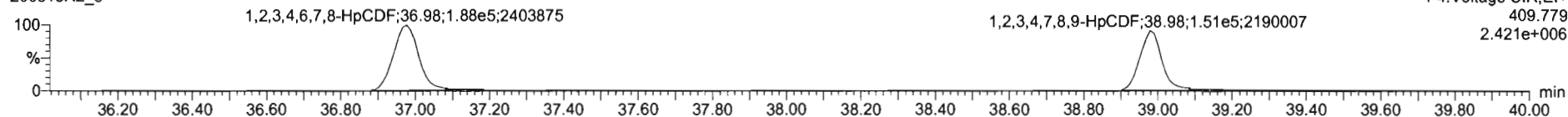
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1,2,3,4,6,7,8-HpCDF

200518R2_3



200518R2_3

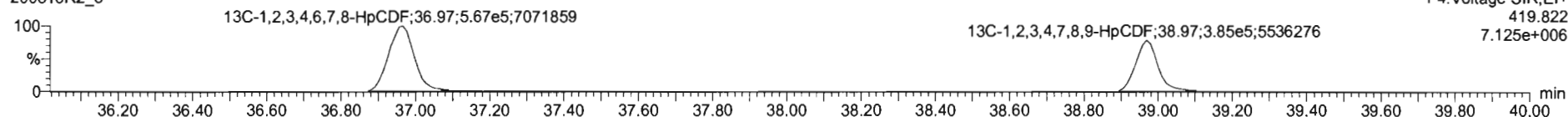


13C-1,2,3,4,6,7,8-HpCDF

200518R2_3

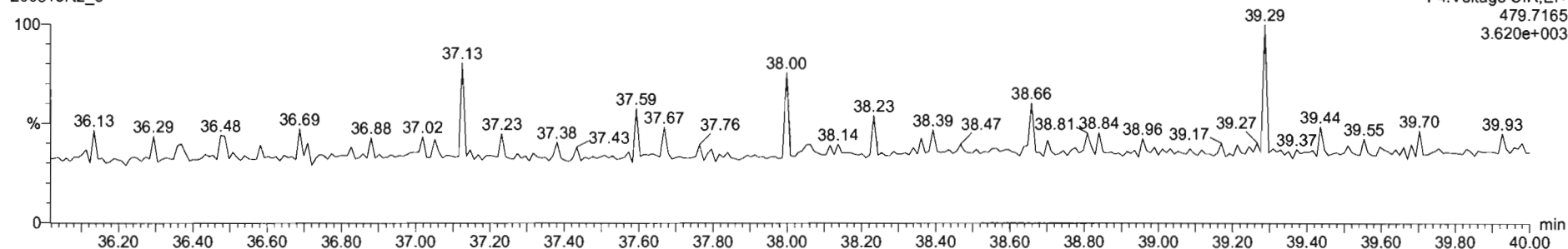


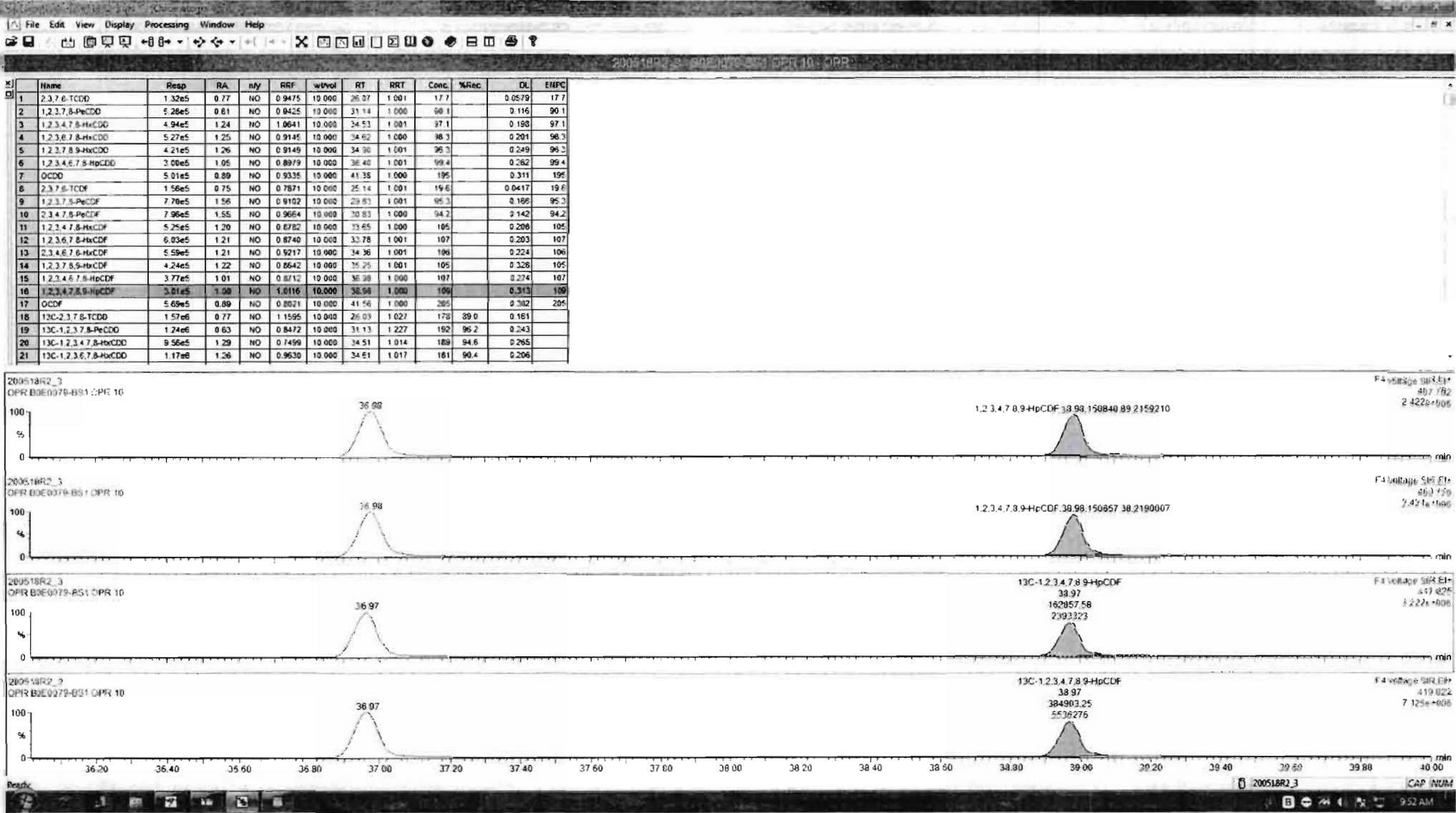
200518R2_3



DPE4

200518R2_3



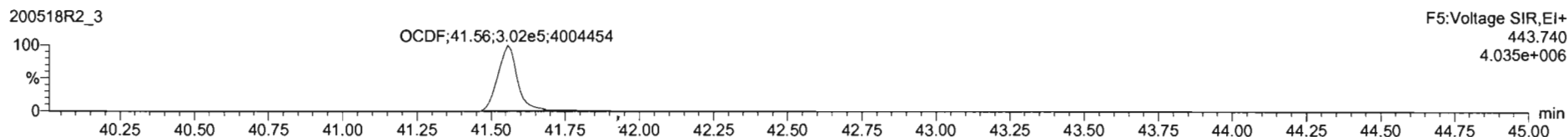
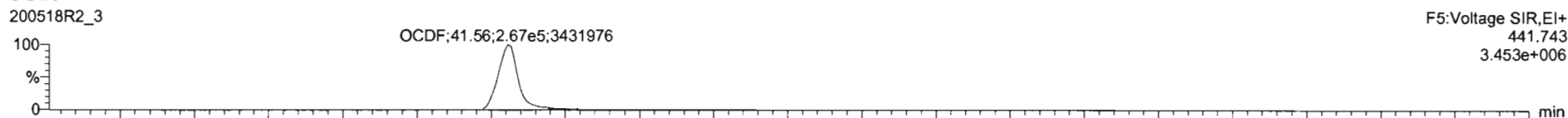


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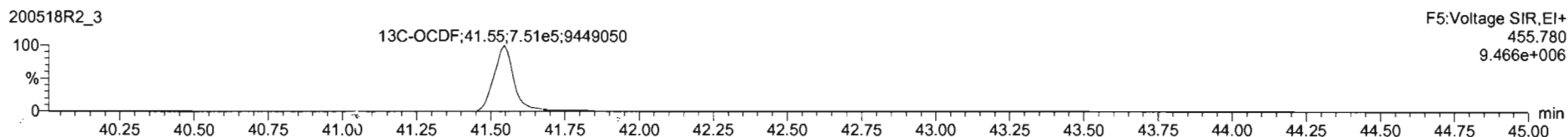
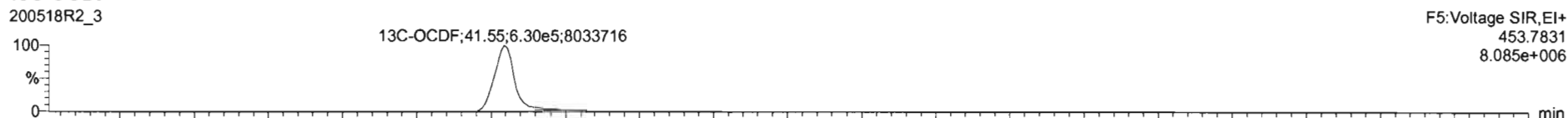
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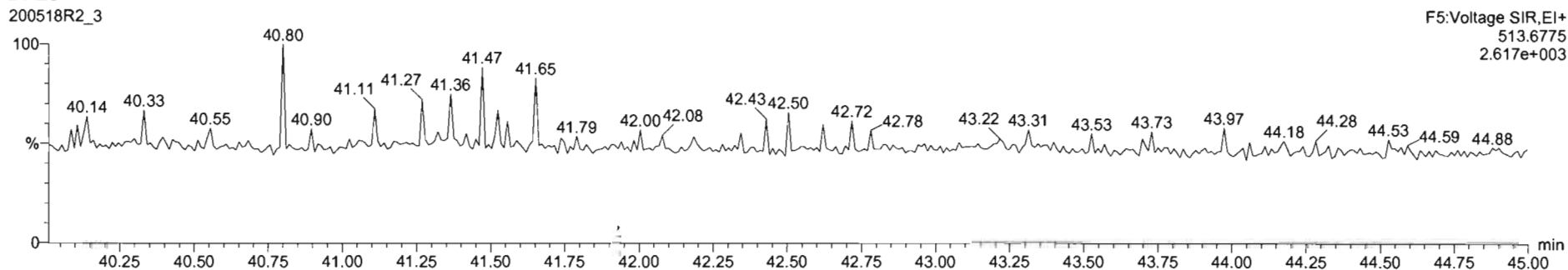
OCDF

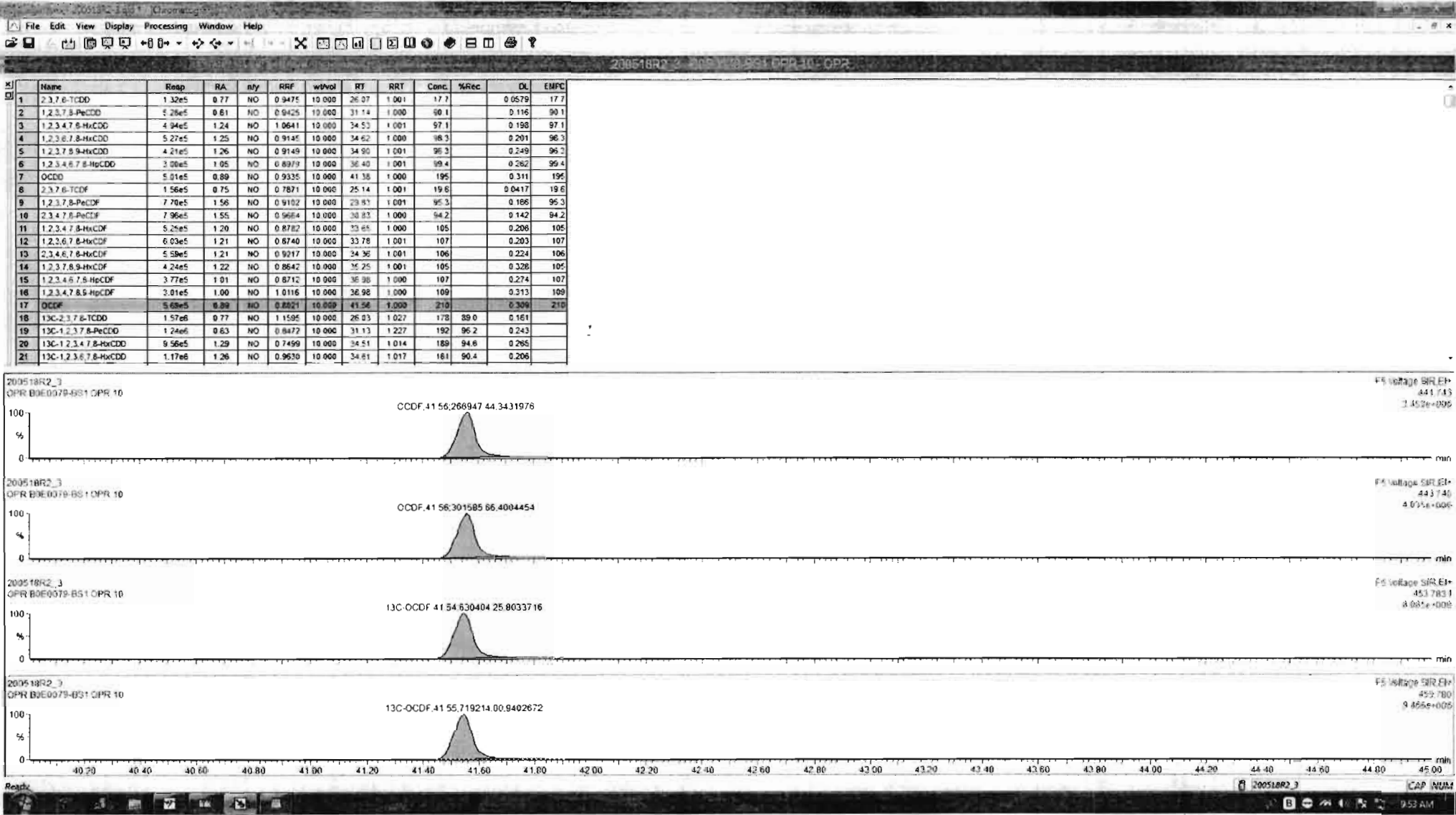


13C-OCDF



DPE5

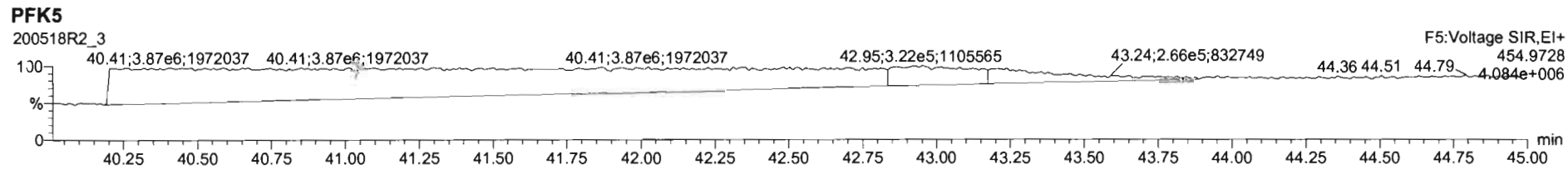
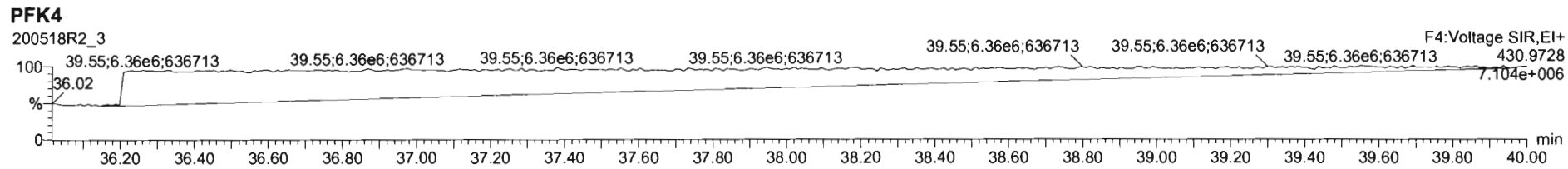
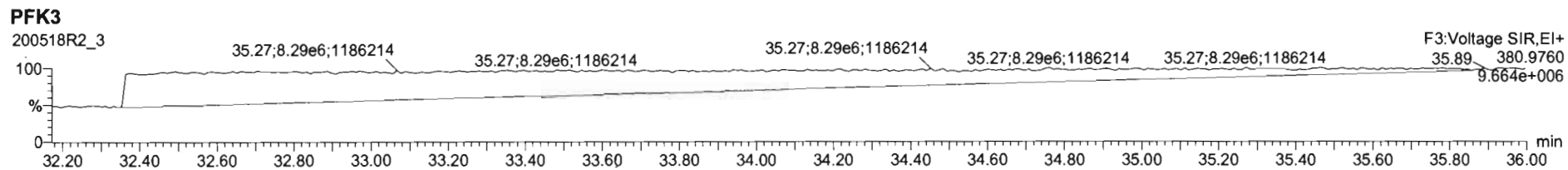
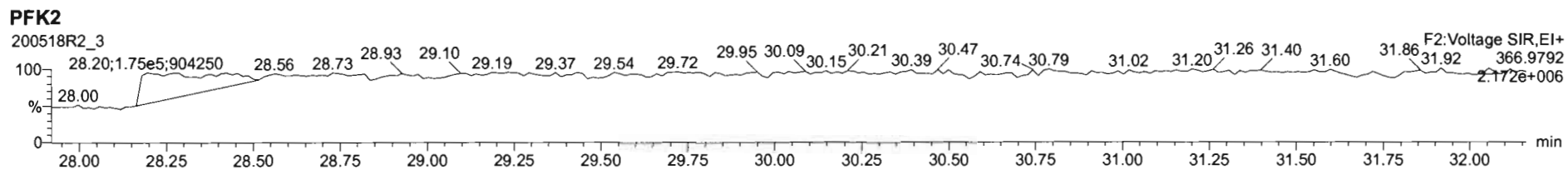
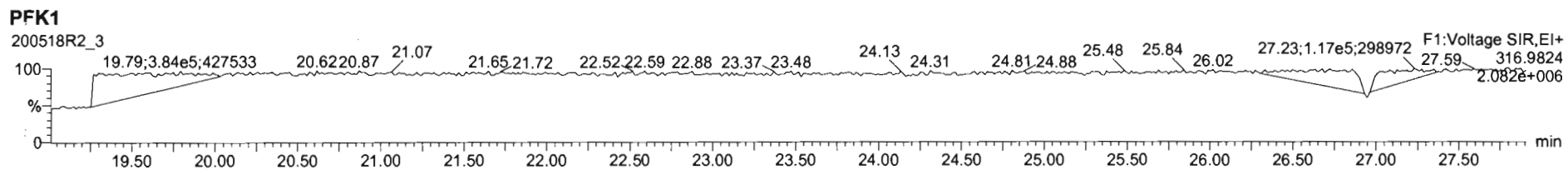




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Name: 200518R2_3, Date: 18-May-2020, Time: 15:35:11, ID: B0E0079-BS1 OPR 10, Description: OPR



Dataset: U:\VG12.PRO\Results\200506R2\200506R2-15.qld

Last Altered: Thursday, May 07, 2020 2:20:00 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 2:20:47 PM Pacific Daylight Time

GRB 05/07/2020

C7 05/11/2020

Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2_15, Date: 07-May-2020, Time: 00:24:34, ID: 2000953-01 PDI-165SC-A-00-01-200426 12.04, Description: PDI-165SC-A-00-01-200426

#	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												0.0591	
2	2 1,2,3,7,8-PeCDD	3.92e2	0.71	NO	0.942	10.741	31.101	31.09	1.001	1.000	0.11236		0.132	0.112
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.741	34.462		1.000				0.145	
4	4 1,2,3,6,7,8-HxCDD	1.96e3	1.23	NO	0.915	10.741	34.559	34.57	1.000	1.000	0.71872		0.159	0.719
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.741	34.845		1.000				0.190	
6	6 1,2,3,4,6,7,8-HpCDD	4.01e4	0.98	NO	0.898	10.741	38.340	38.35	1.000	1.001	24.852		0.346	24.9
7	7 OCDD	2.26e5	0.91	NO	0.933	10.741	41.332	41.34	1.000	1.000	211.24		0.452	211
8	8 2,3,7,8-TCDF	4.04e3	0.67	NO	0.787	10.741	25.042	25.05	1.001	1.001	0.79499	(0.670)	0.0989	0.795
9	9 1,2,3,7,8-PeCDF	4.75e3	1.54	NO	0.910	10.741	29.788	29.77	1.001	1.000	0.91952		0.0658	0.920
10	10 2,3,4,7,8-PeCDF	2.47e3	1.36	NO	0.966	10.741	30.768	30.79	1.000	1.001	0.47860		0.0619	0.479
11	11 1,2,3,4,7,8-HxCDF	6.09e3	1.18	NO	0.878	10.741	33.589	33.60	1.000	1.000	2.0220		0.0889	2.02
12	12 1,2,3,6,7,8-HxCDF	2.22e3	1.12	NO	0.874	10.741	33.727	33.73	1.000	1.000	0.64384		0.0853	0.644
13	13 2,3,4,6,7,8-HxCDF	7.88e2	1.30	NO	0.922	10.741	34.316	34.30	1.001	1.001	0.26944		0.104	0.269
14	14 1,2,3,7,8,9-HxCDF	6.06e2	1.09	NO	0.864	10.741	35.176	35.20	1.000	1.001	0.26663		0.156	0.267
15	15 1,2,3,4,6,7,8-HpCDF	6.81e3	0.99	NO	0.871	10.741	36.949	36.93	1.001	1.001	3.5424		0.111	3.54
16	16 1,2,3,4,7,8,9-HpCDF	7.55e2	0.95	NO	1.01	10.741	38.915	38.94	1.000	1.001	0.57243		0.150	0.572
17	17 OCDF	9.68e3	0.81	NO	0.802	10.741	41.503	41.52	1.000	1.001	9.3112		0.150	9.31
18	18 13C-2,3,7,8-TCDD	9.56e5	0.79	NO	1.16	10.741	25.969	25.98	1.026	1.027	167.86	90.2	0.193	
19	19 13C-1,2,3,7,8-PeCDD	6.88e5	0.62	NO	0.847	10.741	31.049	31.08	1.227	1.228	165.44	88.9	0.228	
20	20 13C-1,2,3,4,7,8-HxCDD	4.69e5	1.27	NO	0.750	10.741	34.463	34.45	1.014	1.014	162.09	87.0	0.616	
21	21 13C-1,2,3,6,7,8-HxCDD	5.55e5	1.27	NO	0.963	10.741	34.575	34.56	1.017	1.017	149.45	80.3	0.480	
22	22 13C-1,2,3,7,8,9-HxCDD	4.78e5	1.23	NO	0.838	10.741	34.844	34.83	1.025	1.025	147.81	79.4	0.552	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.34e5	1.04	NO	0.641	10.741	38.331	38.33	1.128	1.128	135.02	72.5	0.508	
24	24 13C-OCDD	4.26e5	0.90	NO	0.586	10.741	41.321	41.33	1.216	1.216	188.30	50.6	0.374	
25	25 13C-2,3,7,8-TCDF	1.20e6	0.78	NO	1.03	10.741	25.030	25.02	0.989	0.989	158.84	85.3	0.302	
26	26 13C-1,2,3,7,8-PeCDF	1.06e6	1.58	NO	0.845	10.741	29.741	29.77	1.176	1.177	171.24	92.0	0.612	
27	27 13C-2,3,4,7,8-PeCDF	9.94e5	1.61	NO	0.814	10.741	30.731	30.76	1.215	1.216	167.04	89.7	0.636	
28	28 13C-1,2,3,4,7,8-HxCDF	6.38e5	0.51	NO	1.00	10.741	33.603	33.59	0.989	0.988	164.62	88.4	0.499	
29	29 13C-1,2,3,6,7,8-HxCDF	7.36e5	0.51	NO	1.14	10.741	33.726	33.72	0.992	0.992	167.78	90.1	0.441	
30	30 13C-2,3,4,6,7,8-HxCDF	5.91e5	0.51	NO	1.02	10.741	34.293	34.28	1.009	1.009	149.69	80.4	0.490	
31	31 13C-1,2,3,7,8,9-HxCDF	4.90e5	0.50	NO	0.845	10.741	35.184	35.18	1.035	1.035	150.31	80.7	0.593	

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-15.qld

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Printed: Thursday, May 07, 2020 2:20:47 PM Pacific Daylight Time

Name: 200506R2_15, Date: 07-May-2020, Time: 00:24:34, ID: 2000953-01 PDI-165SC-A-00-01-200426 12.04, Description: PDI-165SC-A-00-01-200426

#	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	4.11e5	0.44	NO	0.771	10.741	36.913	36.91	1.086	1.086	138.07	74.2	0.414	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.43e5	0.44	NO	0.482	10.741	38.922	38.92	1.145	1.145	130.50	70.1	0.662	
34	34 13C-OCDF	4.83e5	0.90	NO	0.669	10.741	41.491	41.50	1.221	1.221	187.12	50.2	0.272	
35	35 37Cl-2,3,7,8-TCDD	3.77e5			1.10	10.741	25.999	25.99	1.028	1.027	69.936	93.9	0.0447	
36	36 13C-1,2,3,4-TCDD	9.14e5	0.80	NO	1.00	10.741	25.350	25.30	1.000	1.000	186.20	100	0.224	
37	37 13C-1,2,3,4-TCDF	1.36e6	0.79	NO	1.00	10.741	23.560	23.52	1.000	1.000	186.20	100	0.313	
38	38 13C-1,2,3,4,6,9-HxCDF	7.19e5	0.52	NO	1.00	10.741	34.000	33.98	1.000	1.000	186.20	100	0.501	
39	39 Total Tetra-Dioxins				0.947	10.741	24.620		0.000		0.00000		0.0591	0.116
40	40 Total Penta-Dioxins				0.942	10.741	29.960		0.000		0.39183		0.132	0.512
41	41 Total Hexa-Dioxins				0.915	10.741	33.635		0.000		8.3180		0.172	8.32
42	42 Total Hepta-Dioxins				0.898	10.741	37.640		0.000		58.473		0.346	58.5
43	43 Total Tetra-Furans				0.787	10.741	23.610		0.000		2.9106		0.0989	3.29
44	44 1st Func. Penta-Furans				0.910	10.741	27.090		0.000		0.95632		0.0205	0.956
45	45 Total Penta-Furans				0.910	10.741	29.275		0.000		2.6539		0.0658	2.92
46	46 Total Hexa-Furans				0.922	10.741	33.555		0.000		6.4760		0.101	6.48
47	47 Total Hepta-Furans				0.871	10.741	37.835		0.000		11.155		0.135	11.2

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-15.qld

Last Altered: Thursday, May 07, 2020 2:20:00 PM Pacific Daylight Time

Printed: Thursday, May 07, 2020 2:20:47 PM Pacific Daylight Time

Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

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Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.84	2.528e3	5.857e3	2.328e2	3.334e2	0.70	NO	0.000e0	0.00000	0.11640	0.0591

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.85	5.314e3	8.549e3	4.021e2	5.717e2	0.70	NO	9.737e2	0.27946	0.27946	0.132
2	Total Penta-Dioxins	29.32	4.402e3	3.526e3	2.295e2	2.570e2	0.89	YES	0.000e0	0.00000	0.12021	0.132
3	1,2,3,7,8-PeCDD	31.09	3.494e3	4.836e3	1.628e2	2.287e2	0.71	NO	3.915e2	0.11236	0.11236	0.132

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.99	8.456e4	6.414e4	4.598e3	3.783e3	1.22	NO	8.381e3	3.4079	3.4079	0.172
2	Total Hexa-Dioxins	33.55	9.746e3	1.157e4	6.059e2	5.313e2	1.14	NO	1.137e3	0.46243	0.46243	0.172
3	Total Hexa-Dioxins	33.80	6.577e4	5.031e4	4.734e3	3.628e3	1.30	NO	8.361e3	3.4000	3.4000	0.172
4	Total Hexa-Dioxins	33.92	9.352e3	7.412e3	4.721e2	3.368e2	1.40	NO	8.089e2	0.32892	0.32892	0.172
5	1,2,3,6,7,8-HxCDD	34.57	1.686e4	1.416e4	1.080e3	8.809e2	1.23	NO	1.961e3	0.71872	0.71872	0.159

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.31	3.635e5	3.407e5	2.786e4	2.633e4	1.06	NO	5.419e4	33.621	33.621	0.346
2	1,2,3,4,6,7,8-HpCDD	38.35	2.607e5	2.559e5	1.988e4	2.018e4	0.98	NO	4.006e4	24.852	24.852	0.346

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Name: 200506R2_15, Date: 07-May-2020, Time: 00:24:34, ID: 2000953-01 PDI-165SC-A-00-01-200426 12.04, Description: PDI-165SC-A-00-01-200426

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.87	6.523e3	8.788e3	4.748e2	8.450e2	0.56	YES	0.000e0	0.00000	0.21498	0.0989
2	Total Tetra-Furans	21.81	1.126e4	1.135e4	8.961e2	1.140e3	0.79	NO	2.036e3	0.40111	0.40111	0.0989
3	Total Tetra-Furans	22.26	4.373e3	9.376e3	3.712e2	5.784e2	0.64	YES	0.000e0	0.00000	0.16805	0.0989
4	Total Tetra-Furans	23.43	4.386e3	5.779e3	2.980e2	3.946e2	0.76	NO	6.926e2	0.13641	0.13641	0.0989
5	Total Tetra-Furans	23.52	8.686e3	9.641e3	8.000e2	9.131e2	0.88	NO	1.713e3	0.33741	0.33741	0.0989
6	Total Tetra-Furans	24.07	1.930e4	2.242e4	1.513e3	2.112e3	0.72	NO	3.625e3	0.71393	0.71393	0.0989
7	Total Tetra-Furans	24.96	6.777e3	7.202e3	4.904e2	6.682e2	0.73	NO	1.159e3	0.22819	0.22819	0.0989
8	2,3,7,8-TCDF	25.05	2.078e4	3.334e4	1.624e3	2.413e3	0.67	NO	4.036e3	0.79499	0.79499	0.0989
9	Total Tetra-Furans	25.44	4.291e3	5.651e3	3.378e2	5.088e2	0.66	NO	8.466e2	0.16675	0.16675	0.0989
10	Total Tetra-Furans	27.14	4.673e3	7.017e3	2.725e2	3.965e2	0.69	NO	6.690e2	0.13176	0.13176	0.0989

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.16	4.467e4	3.016e4	2.897e3	1.899e3	1.53	NO	4.796e3	0.95632	0.95632	0.0205

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.79	3.341e4	2.416e4	2.554e3	1.572e3	1.62	NO	4.127e3	0.82294	0.82294	0.0658
2	Total Penta-Furans	29.37	9.468e3	8.685e3	7.270e2	4.230e2	1.72	NO	1.150e3	0.22933	0.22933	0.0658
3	Total Penta-Furans	29.57	6.963e3	4.771e3	3.964e2	2.948e2	1.34	NO	6.911e2	0.13782	0.13782	0.0658
4	1,2,3,7,8-PeCDF	29.77	4.649e4	3.173e4	2.881e3	1.874e3	1.54	NO	4.754e3	0.91952	0.91952	0.0658
5	Total Penta-Furans	30.04	2.004e4	9.740e3	1.180e3	5.294e2	2.23	YES	0.000e0	0.00000	0.26918	0.0658
6	2,3,4,7,8-PeCDF	30.79	2.089e4	2.451e4	1.423e3	1.046e3	1.36	NO	2.469e3	0.47860	0.47860	0.0619
7	Total Penta-Furans	30.82	9.814e3	7.842e3	2.064e2	1.232e2	1.67	NO	3.296e2	0.065728	0.065728	0.0658

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Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.44	1.174e4	1.288e4	6.678e2	5.610e2	1.19	NO	1.229e3	0.40446	0.40446	0.101
2	Total Hexa-Furans	32.60	3.201e4	3.136e4	1.962e3	1.521e3	1.29	NO	3.483e3	1.1466	1.1466	0.101
3	Total Hexa-Furans	33.15	4.792e4	4.286e4	2.705e3	2.343e3	1.15	NO	5.048e3	1.6615	1.6615	0.101
4	1,2,3,4,7,8-HxCDF	33.60	6.191e4	5.456e4	3.294e3	2.794e3	1.18	NO	6.088e3	2.0220	2.0220	0.0889
5	1,2,3,6,7,8-HxCDF	33.73	1.937e4	1.959e4	1.173e3	1.051e3	1.12	NO	2.224e3	0.64384	0.64384	0.0853
6	2,3,4,6,7,8-HxCDF	34.30	1.027e4	6.087e3	4.453e2	3.423e2	1.30	NO	7.877e2	0.26944	0.26944	0.104
7	1,2,3,7,8,9-HxCDF	35.20	6.004e3	6.806e3	3.162e2	2.902e2	1.09	NO	6.064e2	0.26663	0.26663	0.156
8	Total Hexa-Furans	35.24	4.096e3	2.948e3	1.054e2	8.163e1	1.29	NO	1.871e2	0.061570	0.061570	0.101

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.93	4.698e4	4.656e4	3.391e3	3.419e3	0.99	NO	6.810e3	3.5424	3.5424	0.111
2	Total Hepta-Furans	37.51	7.297e4	6.957e4	5.339e3	5.429e3	0.98	NO	1.077e4	7.0403	7.0403	0.135
3	1,2,3,4,7,8,9-HpCDF	38.94	5.946e3	8.660e3	3.689e2	3.864e2	0.95	NO	7.553e2	0.57243	0.57243	0.150

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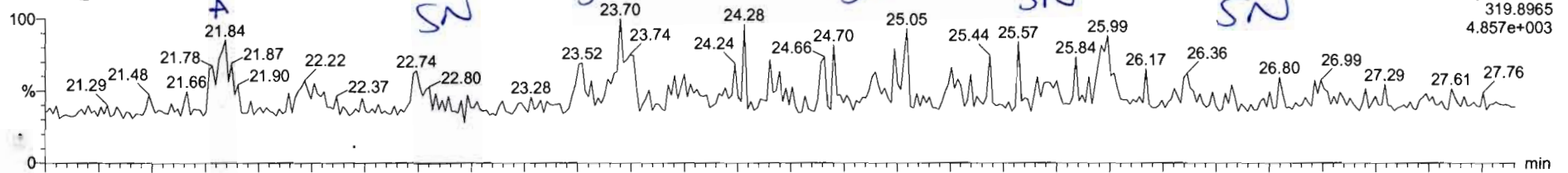
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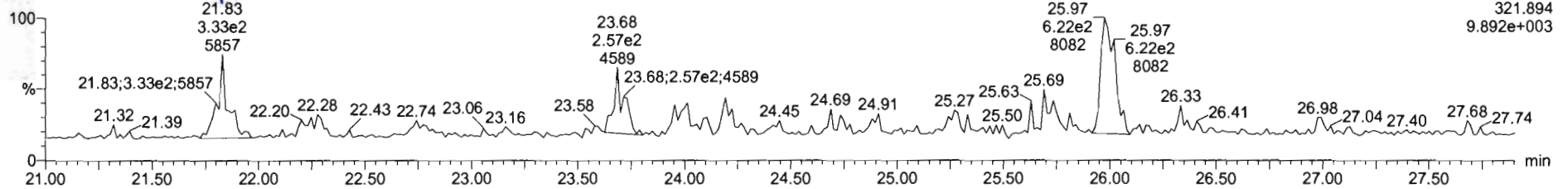
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2,3,7,8-TCDD

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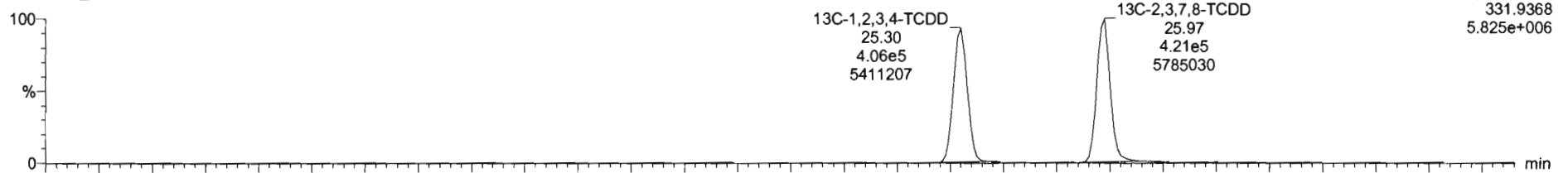


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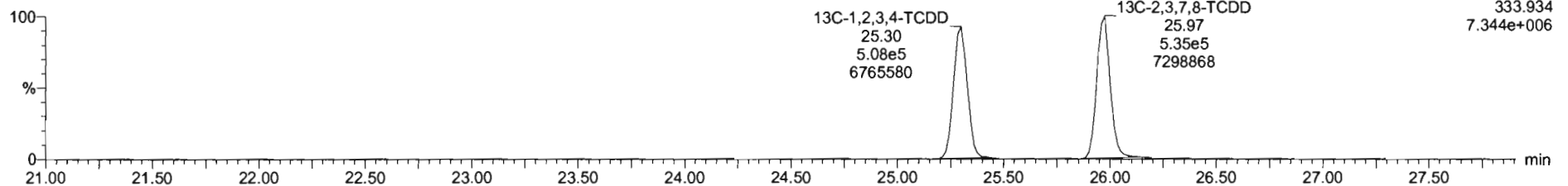


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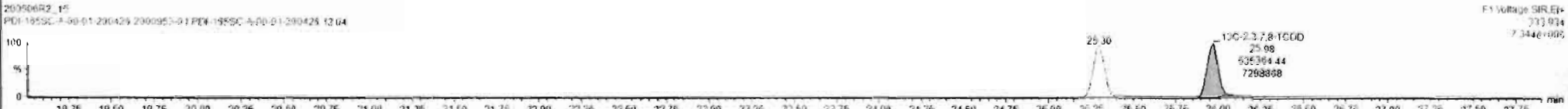
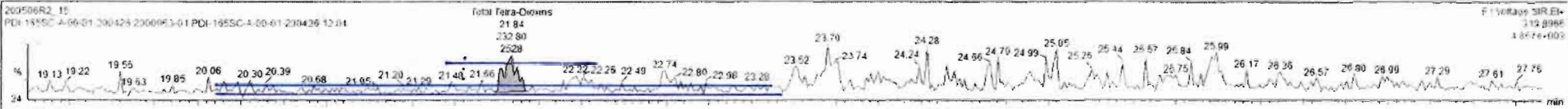


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Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.741			6.000		0.0591	0.118
40 Total Penta-Dioxins				0.8425	10.741			0.279		0.132	0.279
41 Total Hexa-Dioxins				0.9145	10.741			7.44		0.172	6.34

Name	RT	mI Resp	mQ Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	21.84	2.328e2	3.334e2	0.70	NO	0.11640	0.00900



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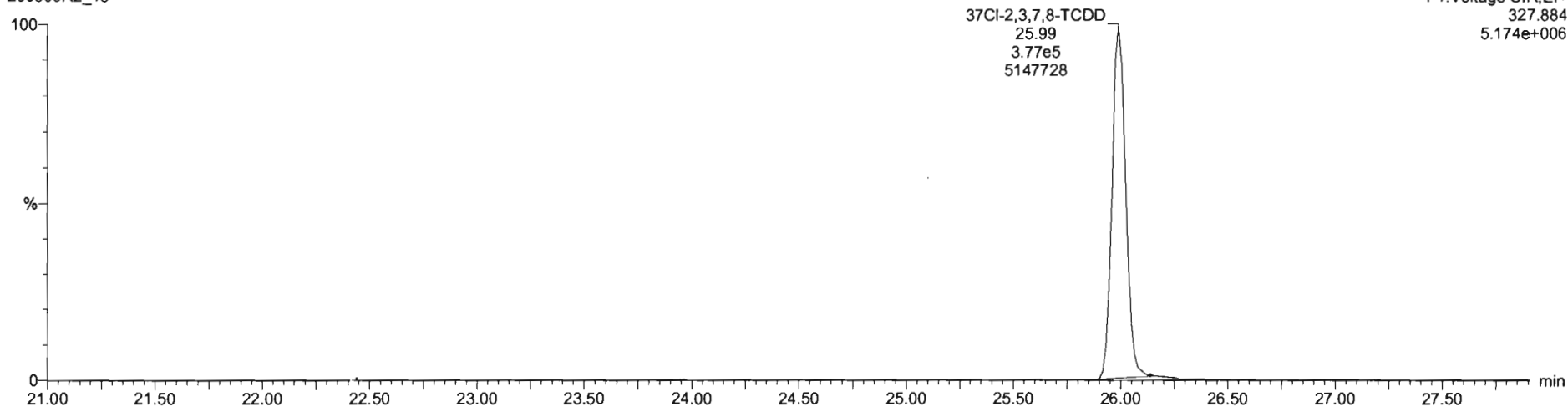
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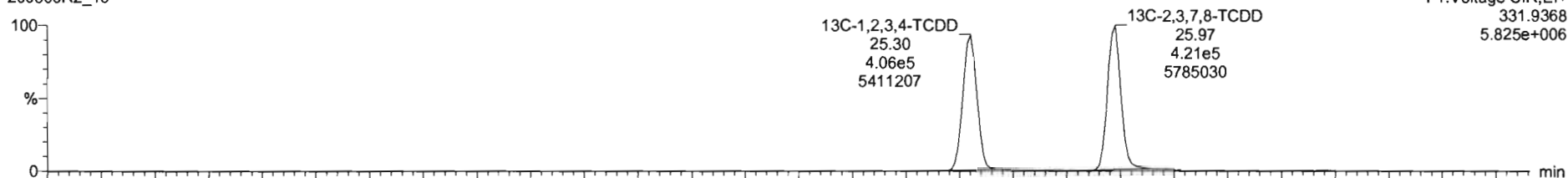
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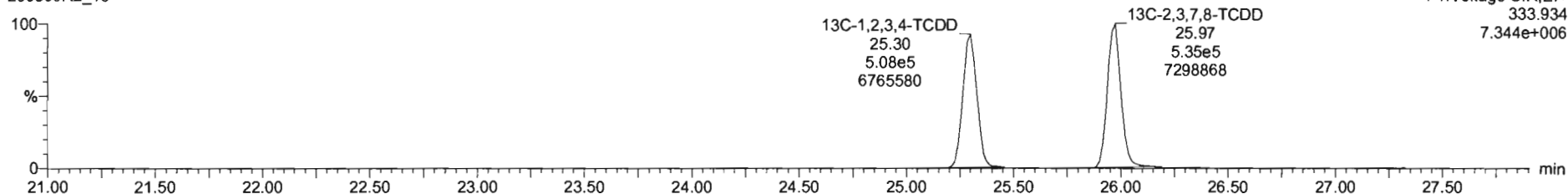


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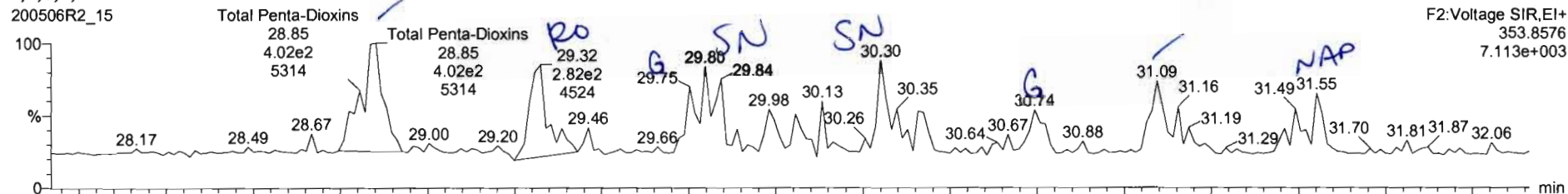
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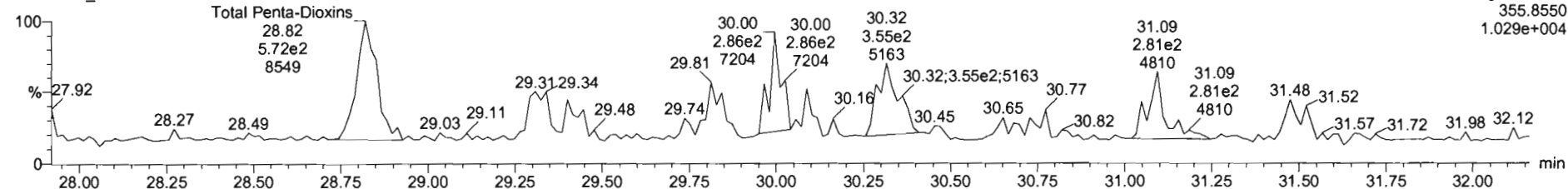
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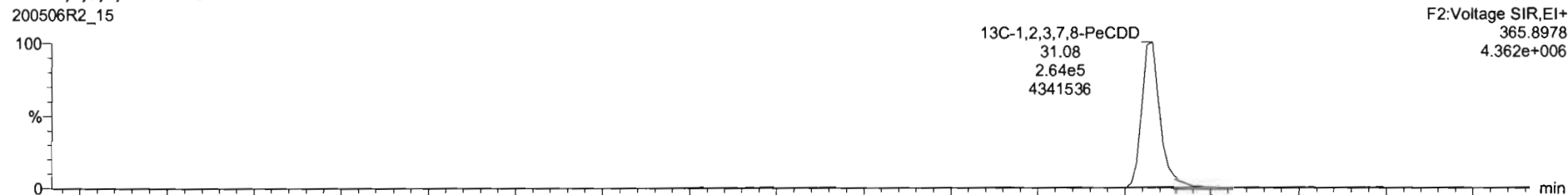
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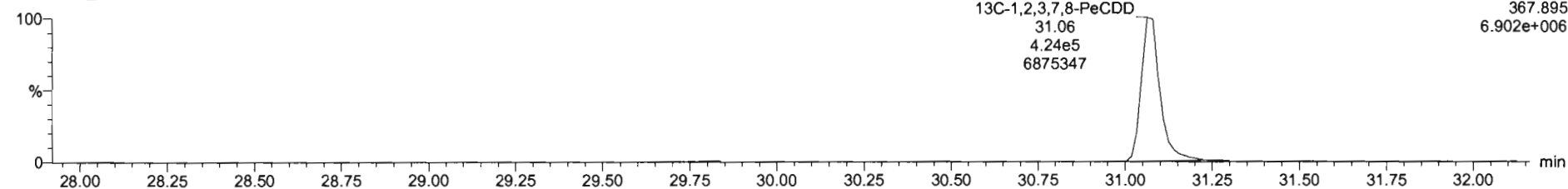
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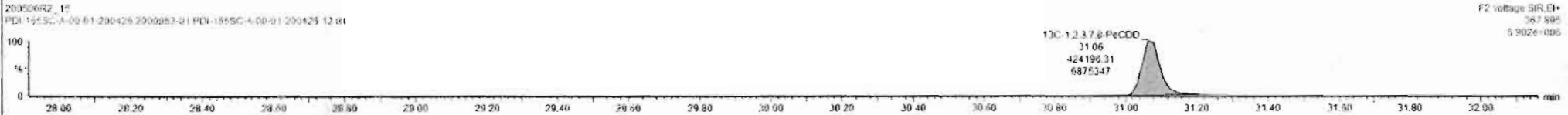
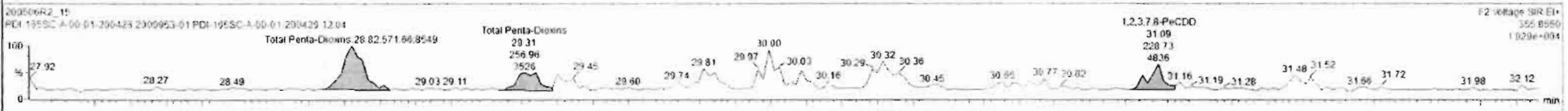
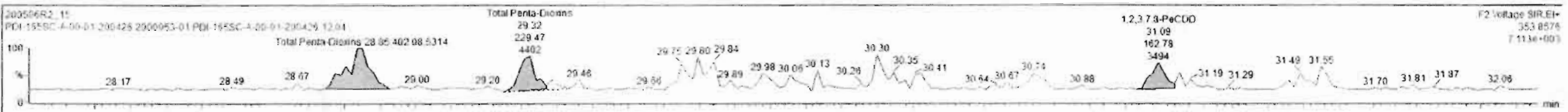


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Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.741			0.000		0.0591	0.116
40 Total Penta-Dioxins				0.9425	10.741			6.352		0.132	0.512
41 Total Hexa-Dioxins				0.9145	10.741			7.44		0.172	0.34

Name	RT	n/y Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	29.32	2.295e2	2.570e2	0.88	YES	0.12021	0.00000
2 Total Penta-Dioxins	28.85	4.921e2	5.717e2	0.70	NO	0.27946	0.27946
3 1,2,3,7,8-PeCDD	31.09	1.626e2	2.267e2	0.71	NO	0.11236	0.11236



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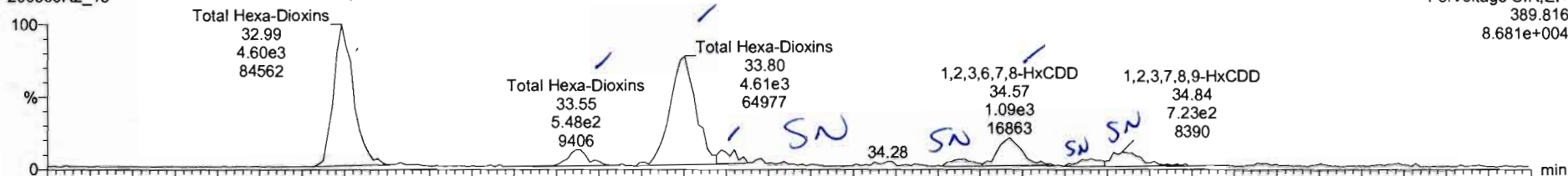
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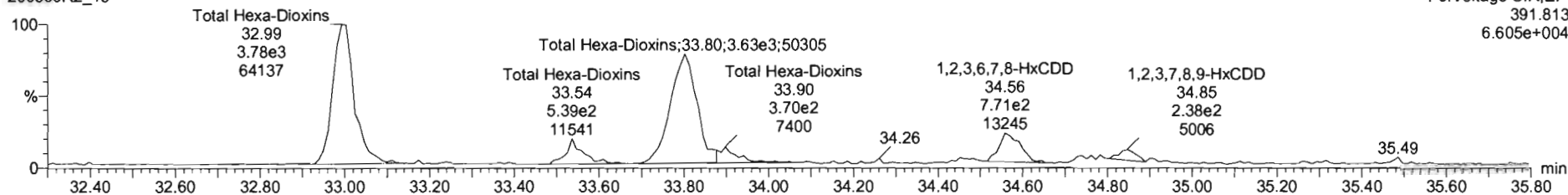
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1,2,3,4,7,8-HxCDD

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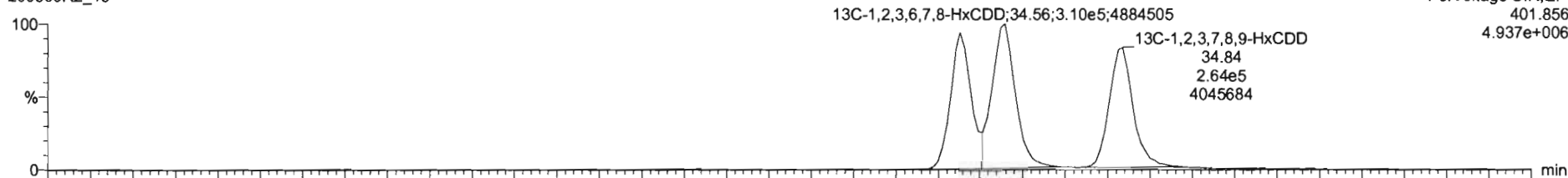


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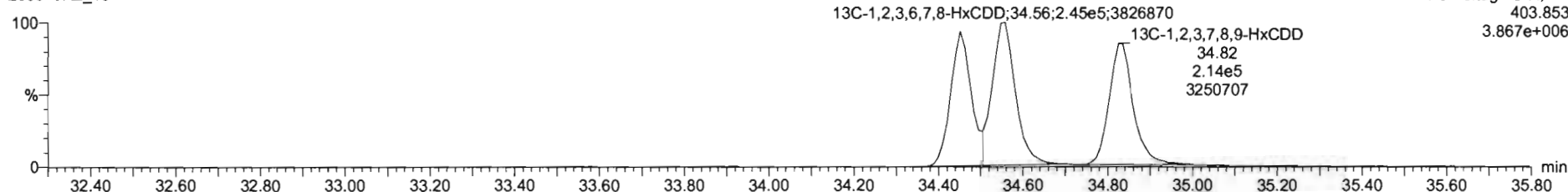


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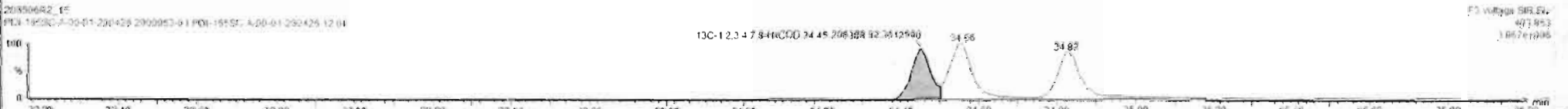
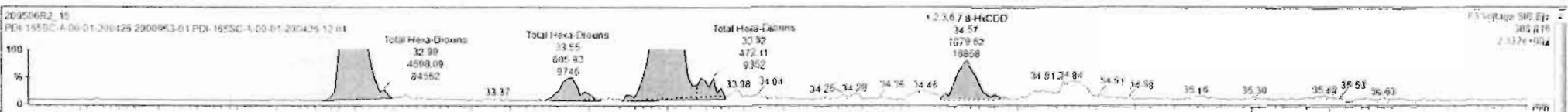


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Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.741			6.000		0.0591	0.116
40 Total Penta-Dioxins				0.9425	10.741			0.392		0.132	0.512
41 Total Hexa-Dioxins				0.9145	10.741			8.32		0.172	6.32

Name	RT	m1 Ratio	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	32.99	4.598e3	3.733e3	1.22	ND	3.4079	3.4079
2 Total Hexa-Dioxins	33.55	6.019e2	5.313e2	1.14	ND	0.46243	0.46243
3 Total Hexa-Dioxins	33.80	4.734e3	3.623e3	1.30	ND	3.4600	3.4600
4 Total Hexa-Dioxins	33.82	4.721e2	3.369e2	1.40	ND	0.32062	0.32062
5 1,2,3,6,7,8-HxCDD	34.57	1.066e2	6.809e2	1.23	ND	0.71872	0.71872



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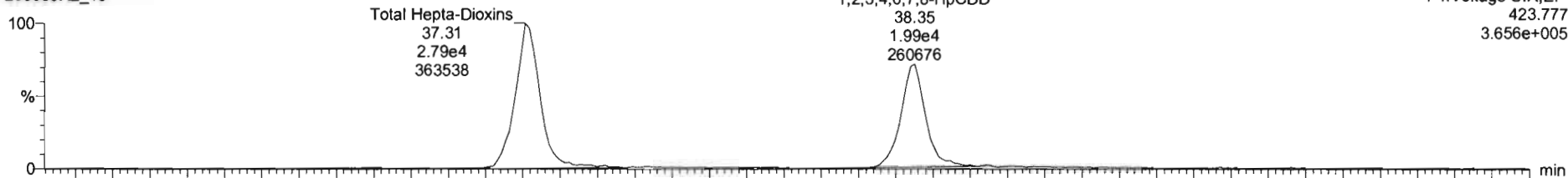
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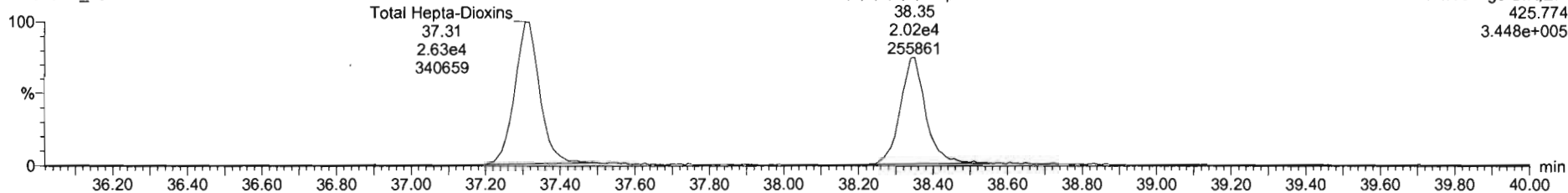
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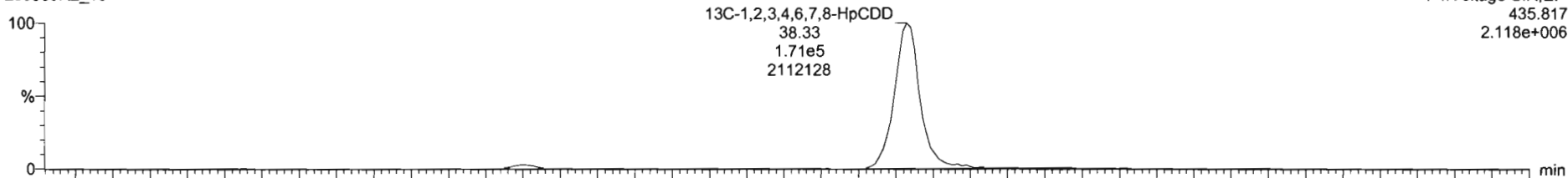


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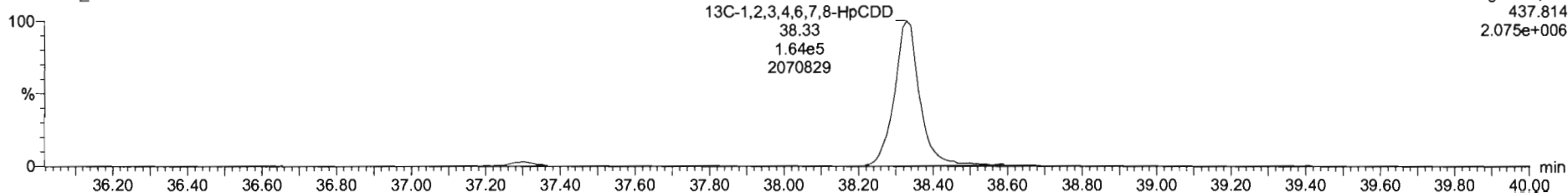


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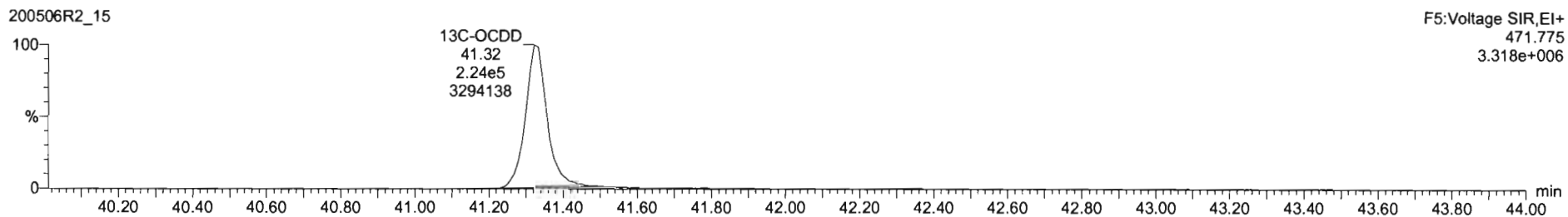
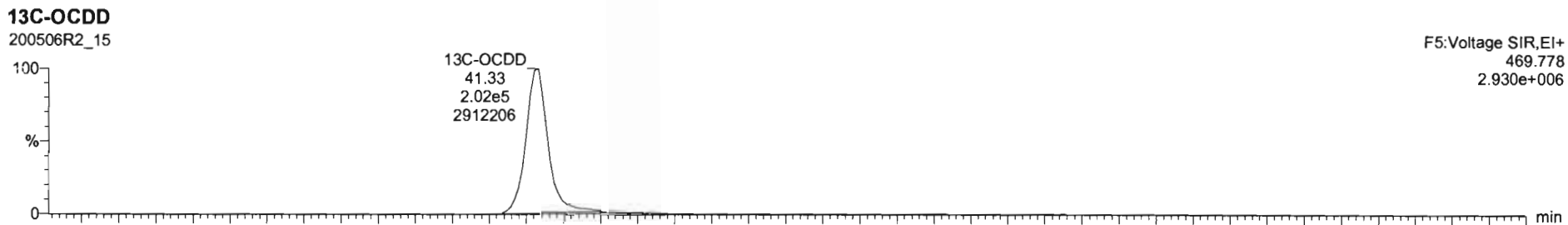
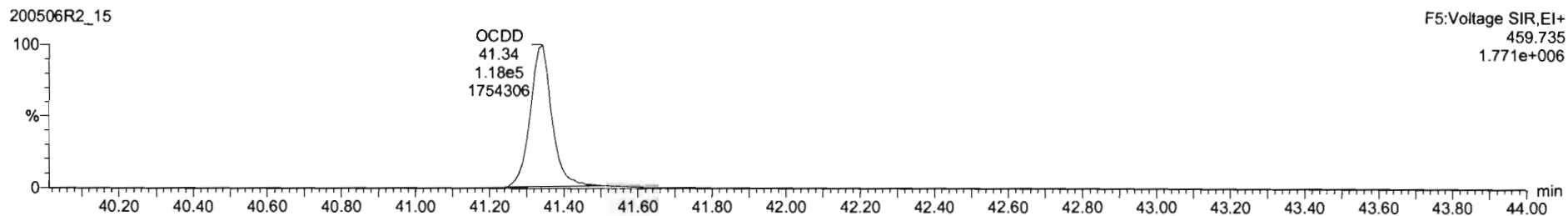
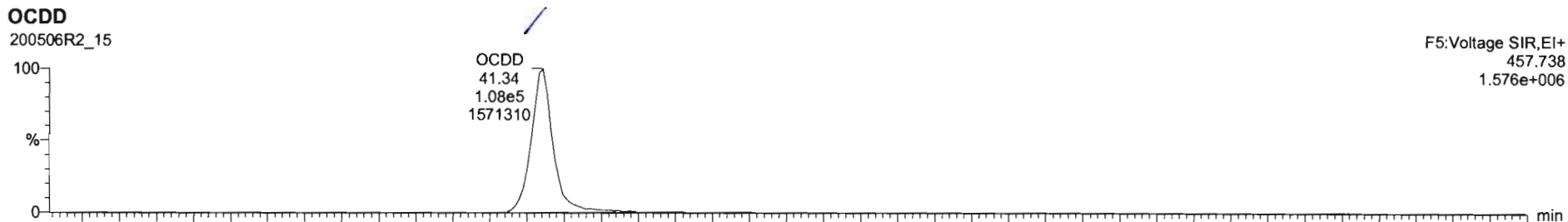


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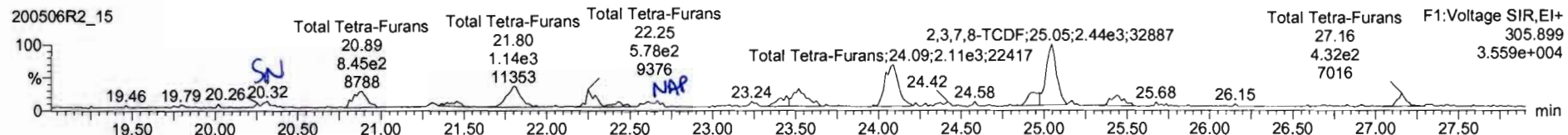


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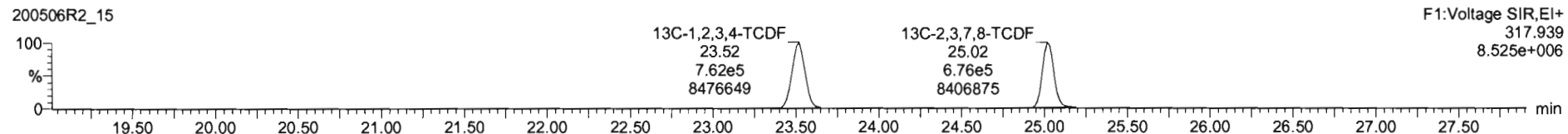
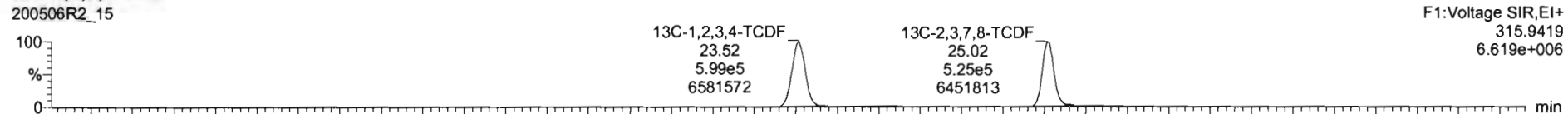
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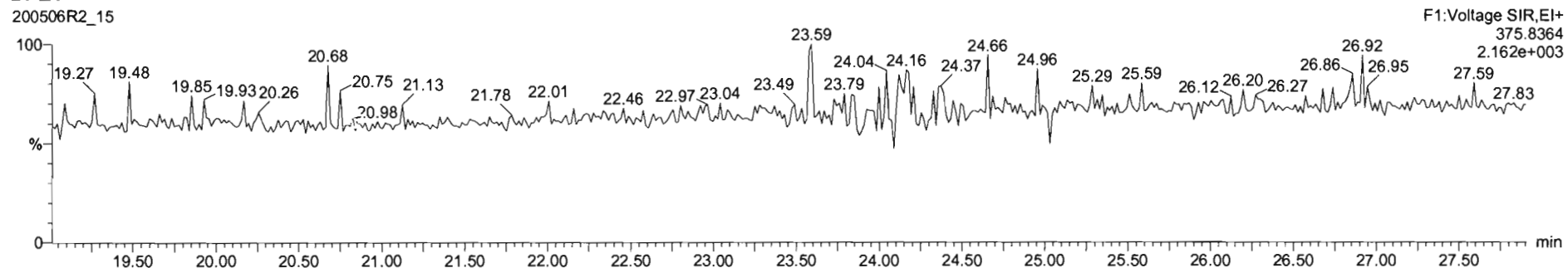
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13C-2,3,7,8-TCDF

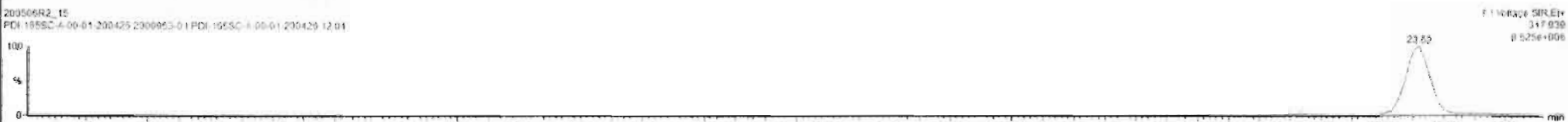
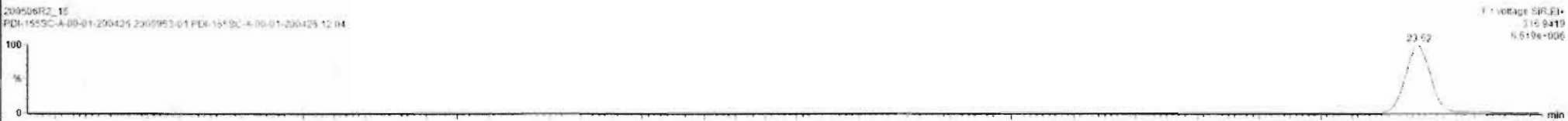
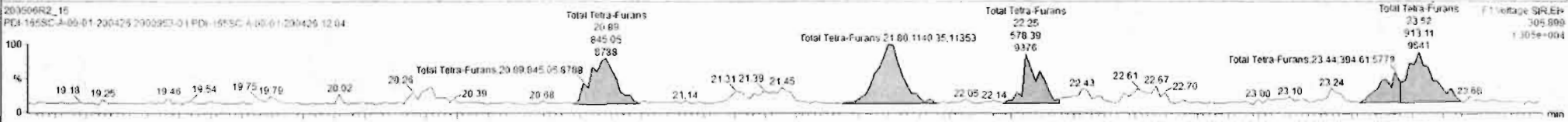
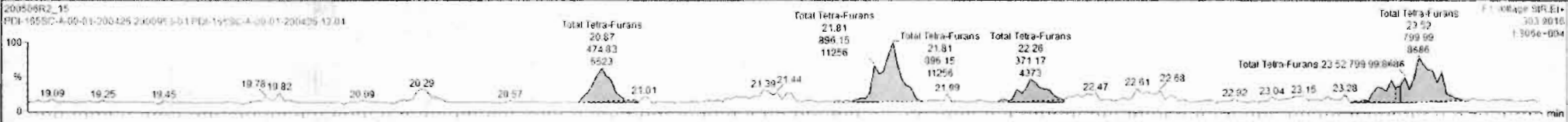


DPE1



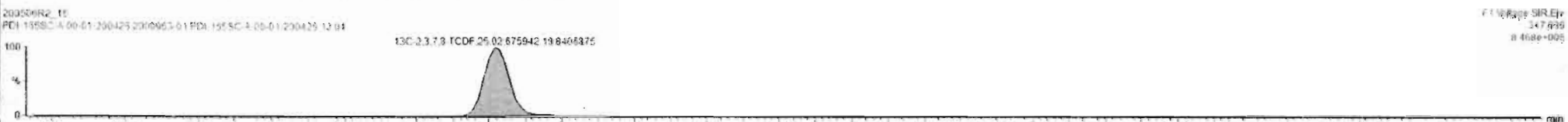
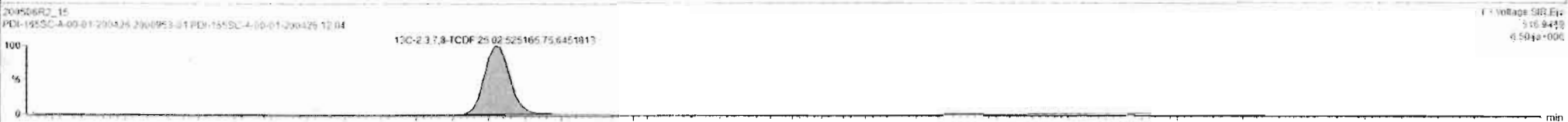
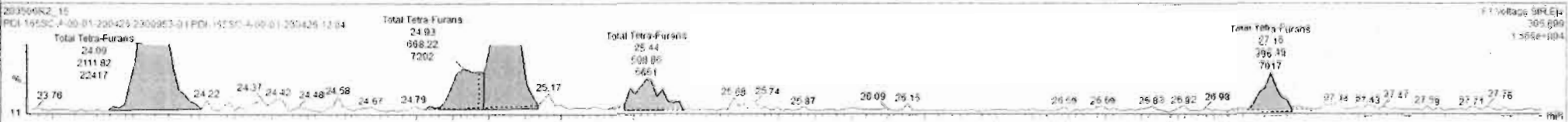
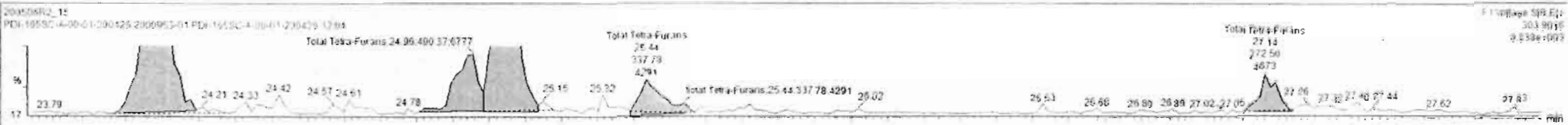
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7371	10.741			2.40		0.0909	3.22
44 1st Func. Penta-Furans				0.6102	10.741			0.956		0.0205	0.916
45 Total Penta-Furans				0.9102	10.741			2.46		0.0653	2.86

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.87	4.749e2	6.450e2	0.56	YES	0.21498	0.00000
2 Total Tetra-Furans	21.81	8.961e2	1.149e3	0.79	NO	0.40111	0.40111
3 Total Tetra-Furans	22.26	2.712e2	5.784e2	0.64	YES	0.16805	0.00000
4 Total Tetra-Furans	23.43	2.900e2	3.946e2	0.76	NO	0.13641	0.13641
5 Total Tetra-Furans	23.52	6.000e2	9.131e2	0.85	NO	0.32741	0.32741
6 Total Tetra-Furans	24.07	1.561e3	2.112e3	0.75	NO	0.72735	0.72735
7 Total Tetra-Furans	24.96	4.504e2	5.337e2	0.92	YES	0.18805	0.00000
8 2,3,7,8-TCDF	25.05	1.630e3	2.436e3	0.67	NO	0.80228	0.60235
9 Total Tetra-Furans	25.44	2.791e2	3.073e2	0.55	YES	0.12637	0.00000
10 Total Tetra-Furans	27.14	2.570e2	4.324e2	0.59	YES	0.11637	0.00000



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.741			2.91		0.0989	3.29
44 1st Func. Penta-Furans				0.9102	10.741			0.958		0.0285	0.256
45 Total Penta-Furans				0.9102	10.741			2.48		0.0653	2.86

Name	RT	m1 Reso	m2 Reso	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.87	4.748e2	8.459e2	0.56	YES	0.21498	0.00000
2 Total Tetra-Furans	21.81	8.361e2	1.148e3	0.76	NO	0.40111	0.40111
3 Total Tetra-Furans	22.26	3.712e2	5.764e2	0.64	YES	0.16206	0.00000
4 Total Tetra-Furans	23.43	2.980e2	1.946e2	0.76	NO	0.13641	0.13641
5 Total Tetra-Furans	23.52	8.000e2	9.131e2	0.88	NO	0.33741	0.33741
6 Total Tetra-Furans	24.07	1.513e3	2.112e3	0.72	NO	0.71393	0.71393
7 Total Tetra-Furans	24.96	4.604e2	6.882e2	0.71	NO	0.22819	0.22819
8 2,3,7,8-TCDF	25.05	1.624e2	2.413e3	0.87	NO	0.75458	0.75499
9 Total Tetra-Furans	25.44	3.378e2	5.088e2	0.88	NO	0.16675	0.16675
10 Total Tetra-Furans	27.14	2.725e2	3.965e2	0.85	NO	0.13176	0.12176



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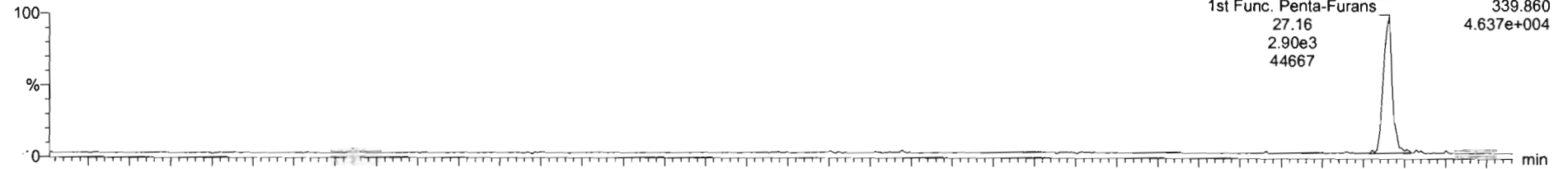
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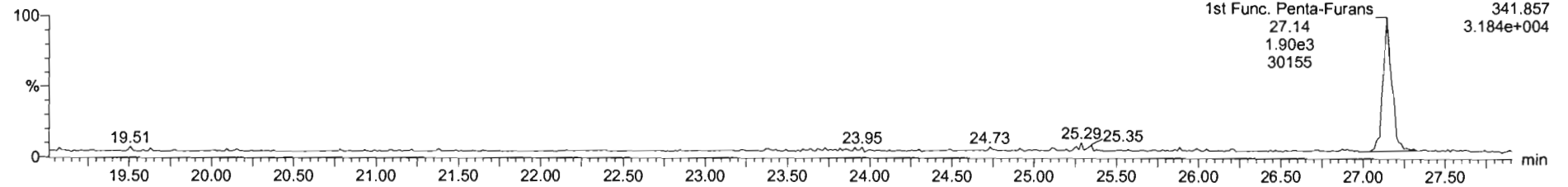
Name: 200506R2_15, Date: 07-May-2020, Time: 00:24:34, ID: 2000953-01 PDI-165SC-A-00-01-200426 12.04, Description: PDI-165SC-A-00-01-200426

1st Func. Penta-Furans

200506R2_15

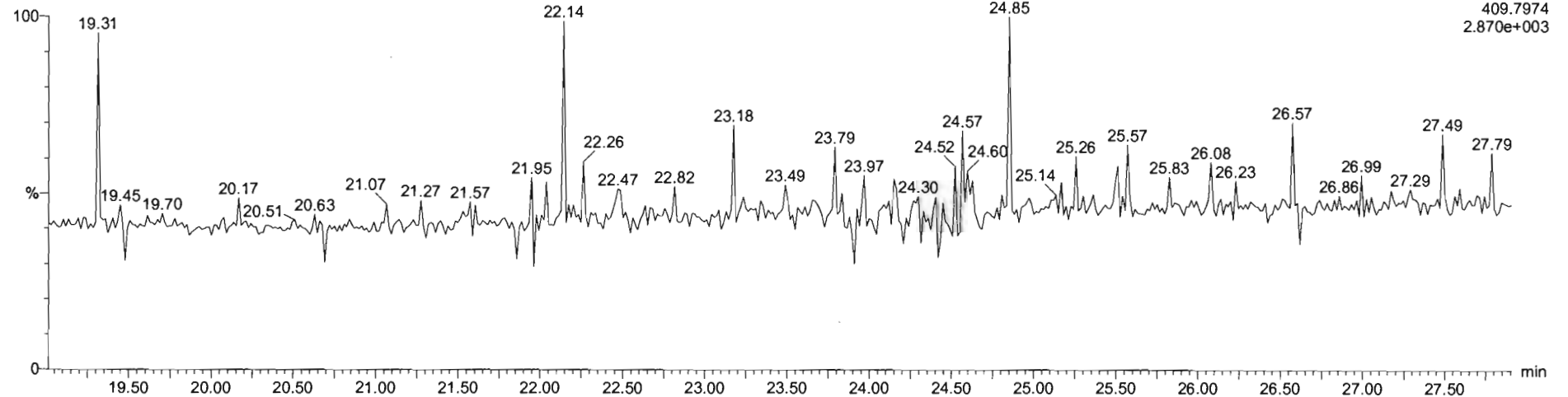


200506R2_15



DPE6

200506R2_15



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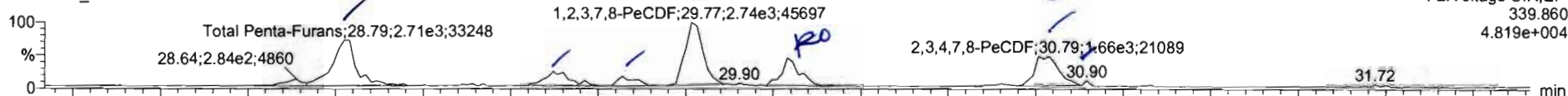
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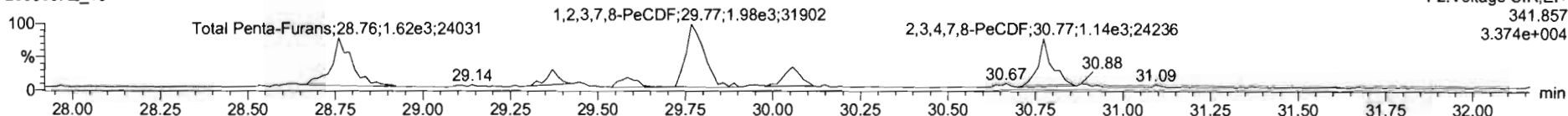
1,2,3,7,8-PeCDF

200506R2_15



F2:Voltage SIR,EI+
339.860
4.819e+004

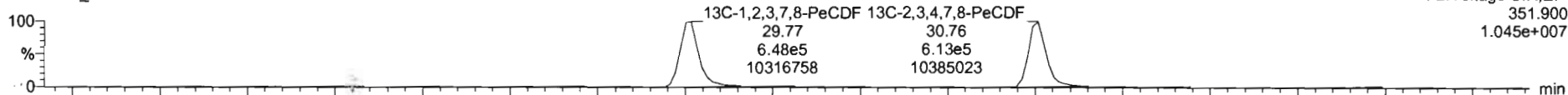
200506R2_15



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341.857
3.374e+004

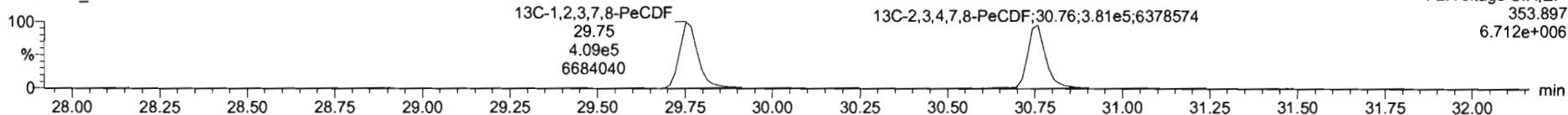
13C-1,2,3,7,8-PeCDF

200506R2_15



F2:Voltage SIR,EI+
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1.045e+007

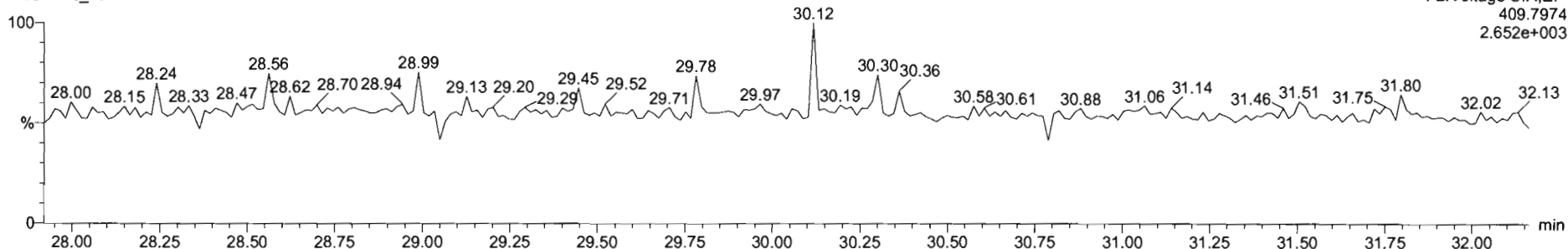
200506R2_15



F2:Voltage SIR,EI+
353.897
6.712e+006

DPE2

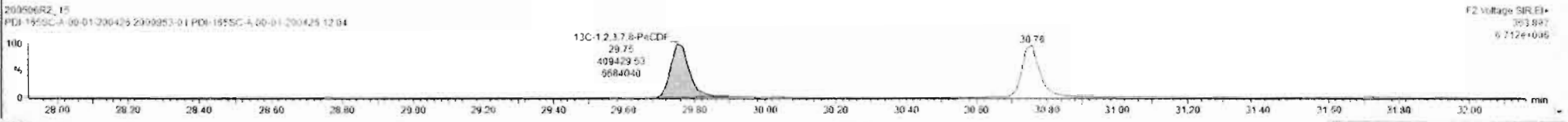
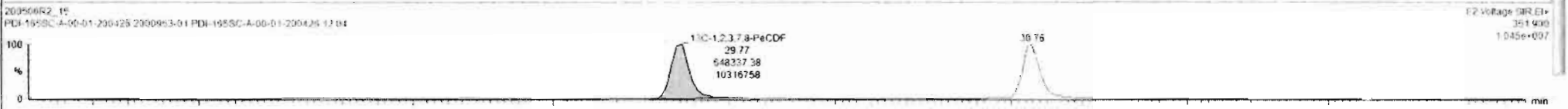
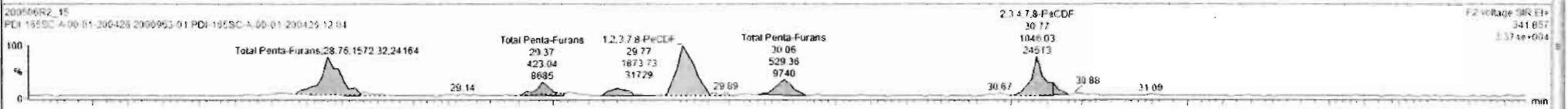
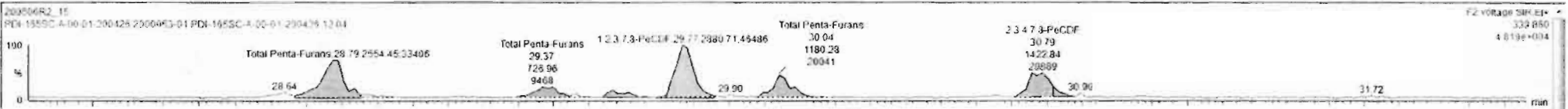
200506R2_15



F2:Voltage SIR,EI+
409.7974
2.652e+003

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.741			2.65		0.0658	2.92
46 Total Hexa-Furans				0.9217	10.741			6.22		0.101	8.12
47 Total Hepta-Furans				0.8712	10.741			11.2		0.135	11.2

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.79	2.554e3	1.572e3	1.62	ND	0.82294	0.82294
2 Total Penta-Furans	29.37	7.270e2	4.230e2	1.72	ND	0.22933	0.22933
3 Total Penta-Furans	29.57	3.964e2	2.945e2	1.54	ND	0.13762	0.13762
4 1,2,3,7,8-PeCDF	29.77	2.861e3	1.874e3	1.54	ND	0.91952	0.91952
5 Total Penta-Furans	30.04	1.180e3	5.294e2	2.23	ES	0.26915	0.00000
6 2,3,4,7,8-PeCDF	30.79	1.423e3	1.046e3	1.36	ND	0.47960	0.47960
7 Total Penta-Furans	30.82	2.064e2	1.232e2	1.67	ND	0.065728	0.065728

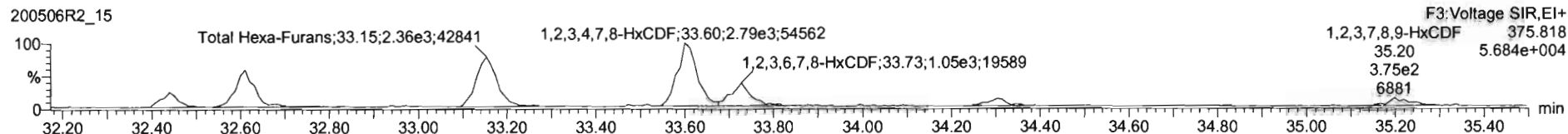
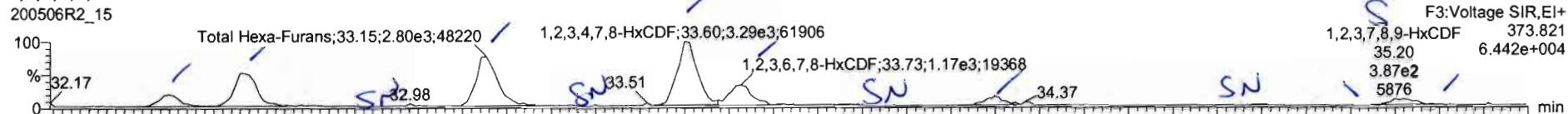


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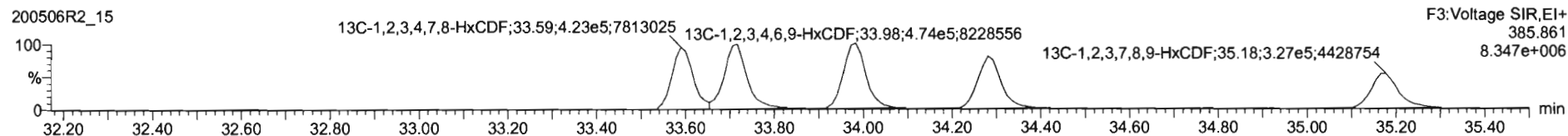
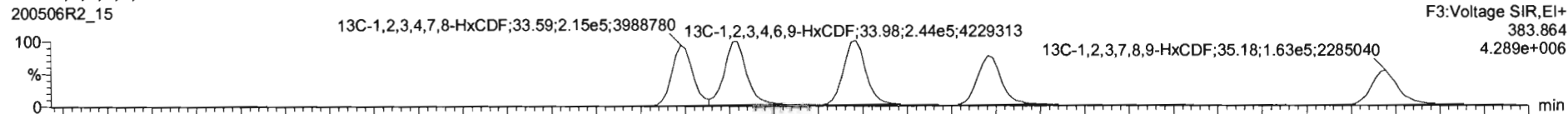
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Name: 200506R2_15, Date: 07-May-2020, Time: 00:24:34, ID: 2000953-01 PDI-165SC-A-00-01-200426 12.04, Description: PDI-165SC-A-00-01-200426

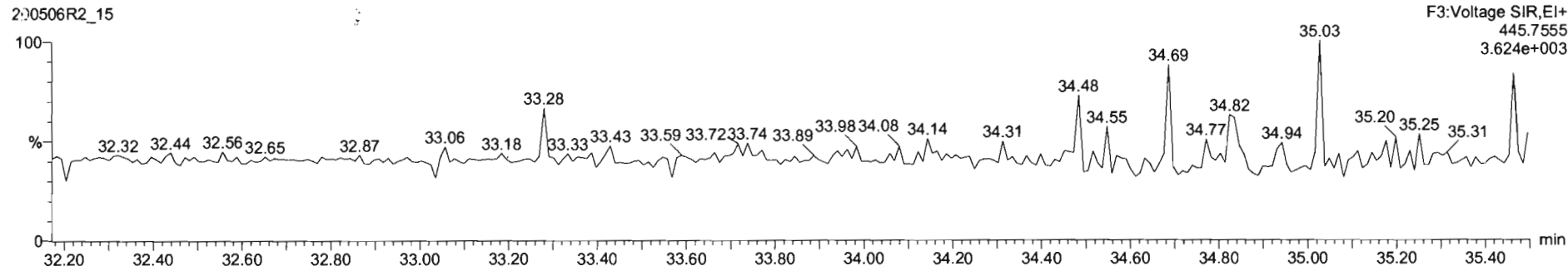
1,2,3,4,7,8-HxCDF



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

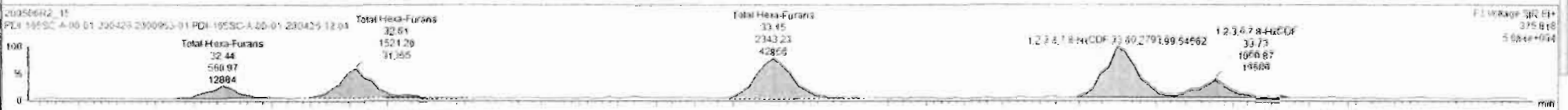
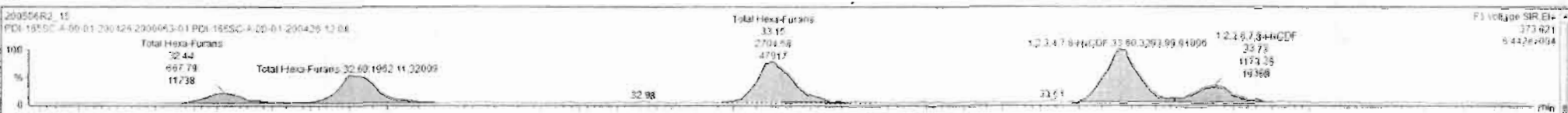


DPE3



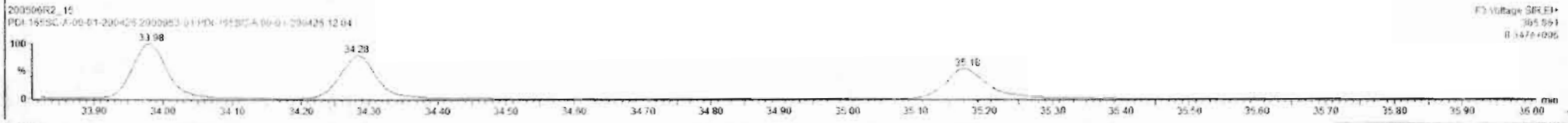
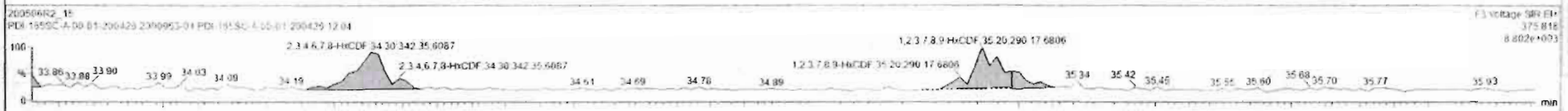
Name	Resp	RA	nfy	RRT	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Hexa-Furans			0.9192	10.741			3.65		0.0650	2.92
46	Total Hexa-Furans			0.9217	10.741			6.15		0.101	8.48
47	Total Hepta-Furans			0.8712	10.741			11.2		0.135	11.2

Name	RT	mI Resp	mC Resp	RA	nfy	EMPC	Conc
1	Total Hexa-Furans	32.44	6.678e2	5.610e2	1.18	NO	0.40440
2	Total Hexa-Furans	32.60	1.962e3	1.521e3	1.26	NO	1.1466
3	Total Hexa-Furans	33.15	2.705e3	2.343e3	1.15	NO	1.6615
4	1,2,3,4,7,8-HxCDF	33.60	3.294e3	2.794e3	1.16	NO	2.0270
5	1,2,3,6,7,8-HxCDF	33.73	1.172e2	1.051e3	1.12	NO	0.64384
6	2,3,4,6,7,8-HxCDF	34.30	4.453e2	3.423e2	1.30	NO	0.26944
7	1,2,3,7,8,9-HxCDF	35.20	0.966e2	3.749e2	1.03	YES	0.30707



Name	Resp	RA	n/y	RRF	wfVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.741			2.65		0.0658	2.95
46 Total Hexa-Furans				0.6217	10.741			6.48		0.101	6.48
47 Total Hepta-Furans				0.8712	10.741			11.2		0.135	11.2

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.84	6.975e2	4.610e2	1.19	NO	0.40448	0.40448
2 Total Hexa-Furans	32.85	1.962e2	1.521e2	1.29	NO	1.1485	1.1486
3 Total Hexa-Furans	33.15	2.705e2	2.343e2	1.15	NO	1.6615	1.6615
4 1,2,3,4,7,8-HxCDF	33.60	2.294e2	2.794e2	1.16	NO	2.0220	2.0220
5 1,2,3,6,7,8-HxCDF	33.73	1.173e2	1.051e2	1.12	NO	0.64384	0.64384
6 2,3,4,6,7,8-HxCDF	34.30	4.452e2	3.423e2	1.20	NO	0.26944	0.26944
7 1,2,3,7,8,9-HxCDF	35.20	3.162e2	2.902e2	1.09	NO	0.26662	0.26663
8 Total Hexa-Furans	35.24	1.954e2	0.163e1	1.29	NO	0.061570	0.061570



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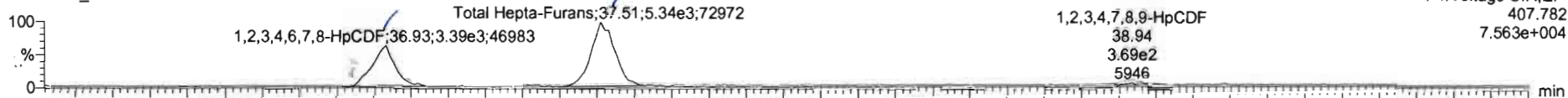
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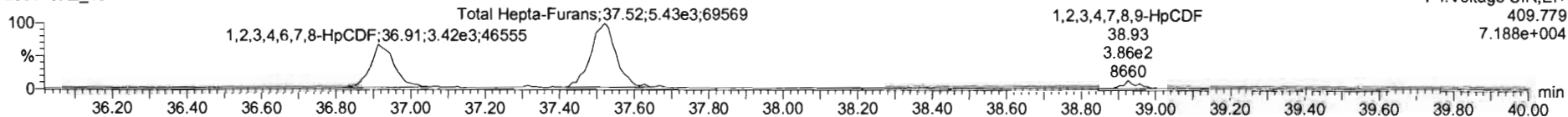
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1,2,3,4,6,7,8-HpCDF

200506R2_15

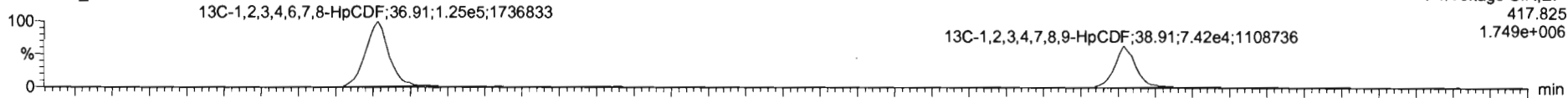


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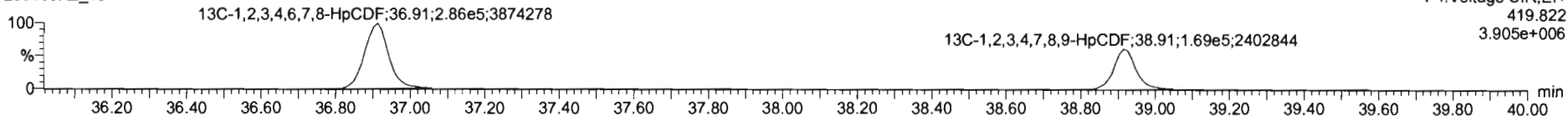


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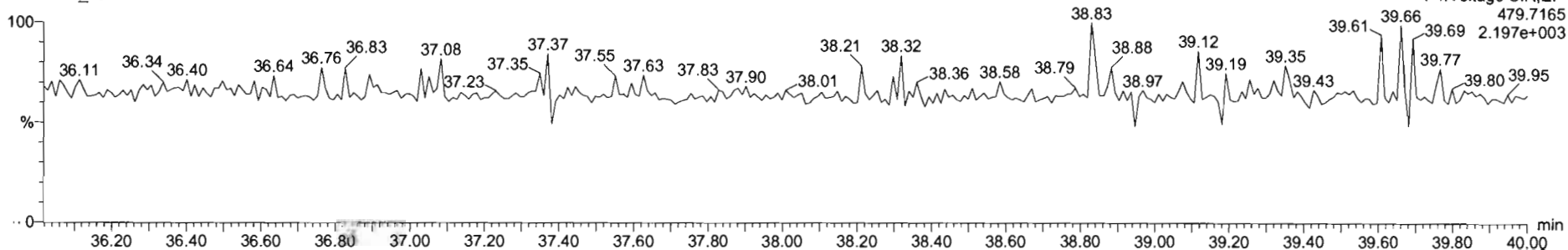


200506R2_15



DPE4

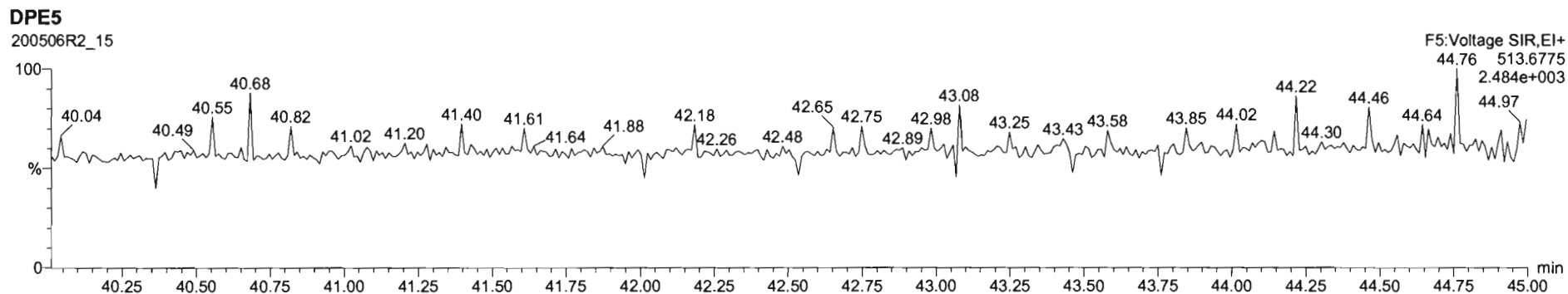
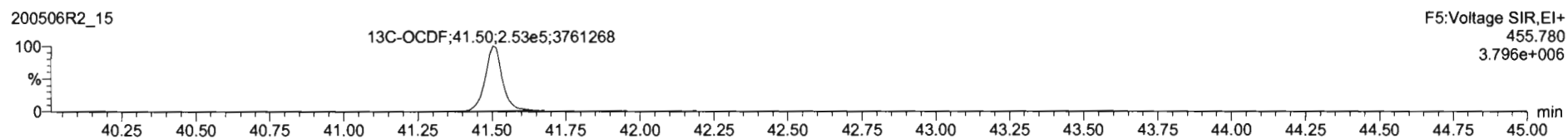
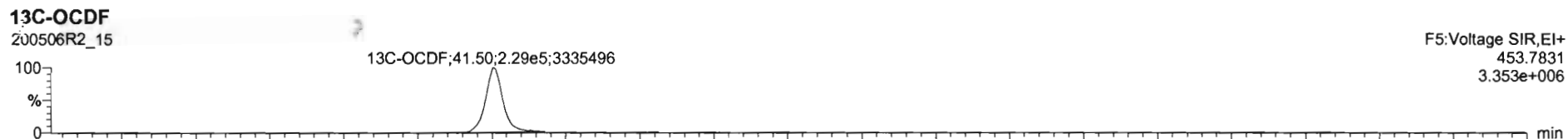
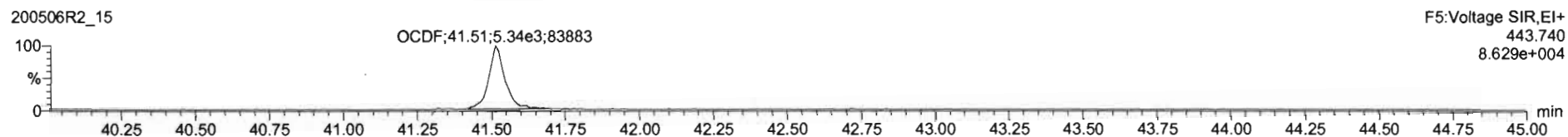
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Name: 200506R2_15, Date: 07-May-2020, Time: 00:24:34, ID: 2000953-01 PDI-165SC-A-00-01-200426 12.04, Description: PDI-165SC-A-00-01-200426

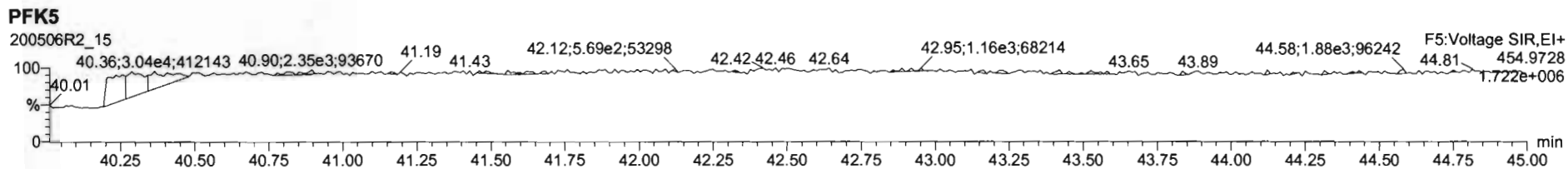
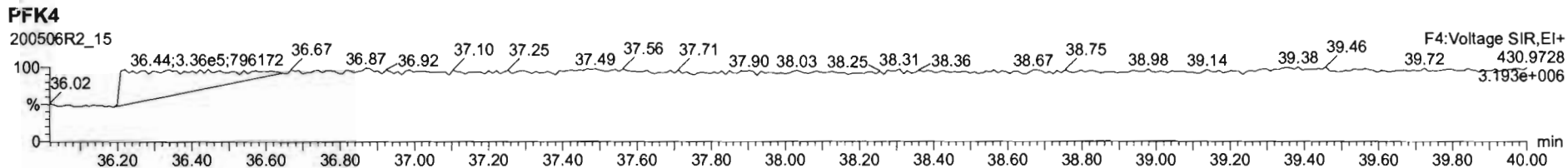
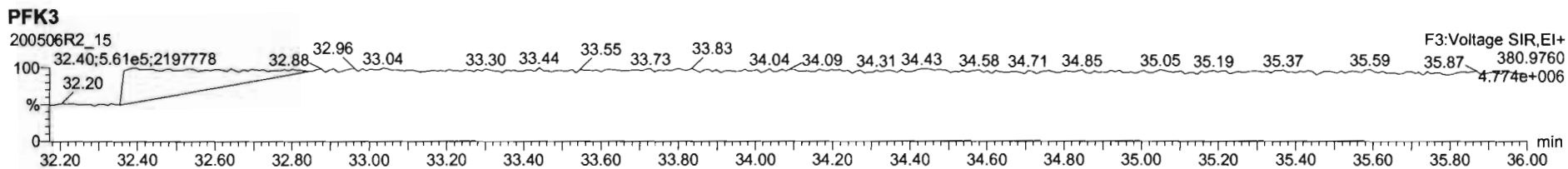
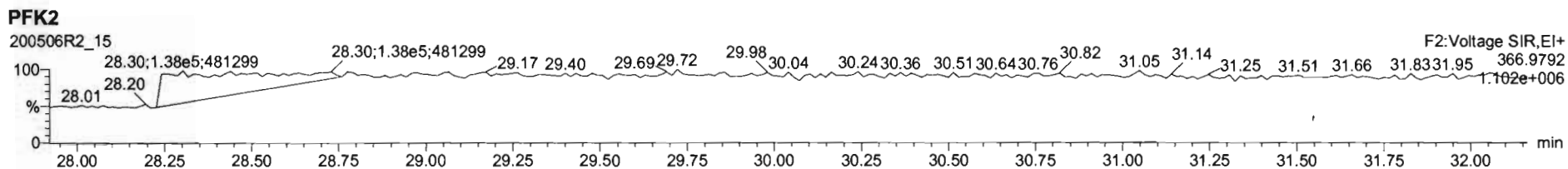
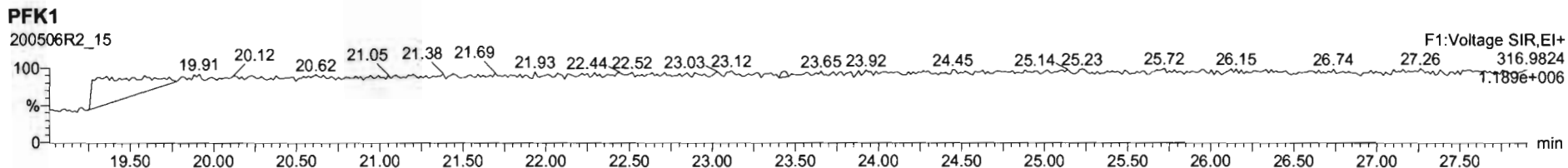


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Name: 200506R2_15, Date: 07-May-2020, Time: 00:24:34, ID: 2000953-01 PDI-165SC-A-00-01-200426 12.04, Description: PDI-165SC-A-00-01-200426



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GRB 05/19/2020

C705/22/2020

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	2.32e3	0.59	YES	0.947	9.999	26.066	26.08	1.001	1.002	0.37334		0.0524	0.317
2	2 1,2,3,7,8-PeCDD	2.04e3	0.61	NO	0.942	9.999	31.132	31.14	1.001	1.001	0.41916		0.0943	0.419
3	3 1,2,3,4,7,8-HxCDD	7.70e2	1.22	NO	1.06	9.999	34.516	34.51	1.000	1.000	0.21076		0.104	0.211
4	4 1,2,3,6,7,8-HxCDD	5.50e3	1.21	NO	0.915	9.999	34.601	34.61	1.000	1.000	1.4834		0.110	1.48
5	5 1,2,3,7,8,9-HxCDD	1.98e3	1.25	NO	0.915	9.999	34.888	34.90	1.000	1.001	0.60642		0.126	0.606
6	6 1,2,3,4,6,7,8-HpCDD	1.10e5	1.02	NO	0.898	9.999	38.394	38.40	1.000	1.001	47.826		0.401	47.8
7	7 OCDD	9.59e5	0.93	NO	0.933	9.999	41.365	41.38	1.000	1.000	570.75		0.509	571
8	8 2,3,7,8-TCDF	1.62e4	0.72	NO	0.787	9.999	25.132	25.15	1.001	1.002	2.5495	<i>uc</i>	0.0563	2.55
9	9 1,2,3,7,8-PeCDF	1.89e4	1.62	NO	0.910	9.999	29.819	29.83	1.001	1.001	2.8708		0.215	2.87
10	10 2,3,4,7,8-PeCDF	1.26e4	1.51	NO	0.966	9.999	30.836	30.82	1.001	1.000	1.9633		0.198	1.96
11	11 1,2,3,4,7,8-HxCDF	2.25e4	1.16	NO	0.878	9.999	33.632	33.64	1.000	1.000	5.8572		0.0769	5.86
12	12 1,2,3,6,7,8-HxCDF	7.26e3	1.13	NO	0.874	9.999	33.759	33.77	1.000	1.001	1.6977		0.0749	1.70
13	13 2,3,4,6,7,8-HxCDF	3.81e3	1.25	NO	0.922	9.999	34.369	34.35	1.001	1.000	1.0223		0.0864	1.02
14	14 1,2,3,7,8,9-HxCDF	9.96e2	1.26	NO	0.864	9.999	35.230	35.26	1.000	1.001	0.32455		0.124	0.325
15	15 1,2,3,4,6,7,8-HpCDF	4.79e4	1.00	NO	0.871	9.999	36.992	36.98	1.001	1.001	18.559		0.191	18.6
16	16 1,2,3,4,7,8,9-HpCDF	2.60e3	0.97	NO	1.01	9.999	38.968	38.98	1.000	1.000	1.2517		0.203	1.25
17	17 OCDF	4.08e4	0.88	NO	0.802	9.999	41.556	41.57	1.000	1.000	22.684		0.181	22.7
18	18 13C-2,3,7,8-TCDD	1.31e6	0.78	NO	1.16	9.999	26.031	26.03	1.026	1.027	144.86	72.4	0.123	
19	19 13C-1,2,3,7,8-PeCDD	1.03e6	0.63	NO	0.847	9.999	31.123	31.11	1.227	1.227	156.50	78.2	0.203	
20	20 13C-1,2,3,4,7,8-HxCDD	6.87e5	1.24	NO	0.750	9.999	34.506	34.51	1.014	1.014	124.93	62.5	0.262	
21	21 13C-1,2,3,6,7,8-HxCDD	8.12e5	1.26	NO	0.963	9.999	34.618	34.60	1.017	1.017	114.93	57.5	0.204	
22	22 13C-1,2,3,7,8,9-HxCDD	7.12e5	1.25	NO	0.838	9.999	34.887	34.88	1.025	1.025	115.99	58.0	0.234	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.12e5	1.04	NO	0.641	9.999	38.378	38.38	1.128	1.128	108.76	54.4	0.201	
24	24 13C-OCDD	7.20e5	0.84	NO	0.586	9.999	41.372	41.37	1.216	1.216	167.51	41.9	0.303	
25	25 13C-2,3,7,8-TCDF	1.62e6	0.77	NO	1.03	9.999	25.090	25.11	0.989	0.990	141.80	70.9	0.217	
26	26 13C-1,2,3,7,8-PeCDF	1.44e6	1.59	NO	0.845	9.999	29.812	29.80	1.176	1.175	155.18	77.6	0.304	
27	27 13C-2,3,4,7,8-PeCDF	1.33e6	1.59	NO	0.814	9.999	30.803	30.81	1.215	1.215	148.34	74.2	0.316	
28	28 13C-1,2,3,4,7,8-HxCDF	8.76e5	0.52	NO	1.00	9.999	33.645	33.63	0.989	0.988	118.91	59.4	0.304	
29	29 13C-1,2,3,6,7,8-HxCDF	9.79e5	0.50	NO	1.14	9.999	33.767	33.75	0.992	0.992	117.42	58.7	0.269	
30	30 13C-2,3,4,6,7,8-HxCDF	8.08e5	0.51	NO	1.02	9.999	34.336	34.33	1.009	1.009	107.76	53.9	0.299	
31	31 13C-1,2,3,7,8,9-HxCDF	7.11e5	0.53	NO	0.845	9.999	35.227	35.23	1.035	1.035	114.69	57.3	0.362	

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#	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	5.93e5	0.44	NO	0.771	9.999	36.959	36.96	1.086	1.086	104.77	52.4	0.274	
33	13C-1,2,3,4,7,8,9-HpCDF	4.10e5	0.43	NO	0.482	9.999	38.970	38.97	1.145	1.145	115.93	58.0	0.439	
34	13C-OCDF	8.97e5	0.87	NO	0.669	9.999	41.542	41.56	1.221	1.221	182.99	45.7	0.209	
35	37Cl-2,3,7,8-TCDD	4.43e5			1.10	9.999	26.061	26.07	1.028	1.028	51.713	64.6	0.0369	
36	13C-1,2,3,4-TCDD	1.56e6	0.80	NO	1.00	9.999	25.350	25.36	1.000	1.000	200.03	100	0.143	
37	13C-1,2,3,4-TCDF	2.20e6	0.78	NO	1.00	9.999	23.560	23.61	1.000	1.000	200.03	100	0.225	
38	13C-1,2,3,4,6,9-HxCDF	1.47e6	0.51	NO	1.00	9.999	34.000	34.03	1.000	1.000	200.03	100	0.306	
39	Total Tetra-Dioxins				0.947	9.999	24.620		0.000		1.2313		0.0524	1.55
40	Total Penta-Dioxins				0.942	9.999	29.960		0.000		1.9497		0.0943	2.47
41	Total Hexa-Dioxins				0.915	9.999	33.635		0.000		14.051		0.119	14.1
42	Total Hepta-Dioxins				0.898	9.999	37.640		0.000		114.61		0.401	115
43	Total Tetra-Furans				0.787	9.999	23.610		0.000		16.156		0.0563	16.2
44	1st Func. Penta-Furans				0.910	9.999	27.090		0.000		5.8465		0.0236	5.85
45	Total Penta-Furans				0.910	9.999	29.275		0.000		14.694		0.213	14.7
46	Total Hexa-Furans				0.922	9.999	33.555		0.000		23.226		0.0849	23.2
47	Total Hepta-Furans				0.871	9.999	37.835		0.000		44.237		0.209	44.2

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Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

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Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.92	8.766e3	1.162e4	8.093e2	1.114e3	0.73	NO	1.924e3	0.31019	0.31019	0.0524
2	Total Tetra-Dioxins	22.35	3.137e3	5.464e3	3.495e2	4.638e2	0.75	NO	8.133e2	0.13116	0.13116	0.0524
3	Total Tetra-Dioxins	22.86	2.693e3	3.399e3	2.484e2	3.277e2	0.76	NO	5.761e2	0.092907	0.092907	0.0524
4	Total Tetra-Dioxins	23.80	3.824e3	5.695e3	2.932e2	4.388e2	0.67	NO	7.320e2	0.11804	0.11804	0.0524
5	Total Tetra-Dioxins	24.06	4.059e3	4.683e3	2.903e2	4.012e2	0.72	NO	6.915e2	0.11151	0.11151	0.0524
6	Total Tetra-Dioxins	24.33	7.064e3	9.172e3	5.682e2	7.580e2	0.75	NO	1.326e3	0.21387	0.21387	0.0524
7	Total Tetra-Dioxins	25.78	3.606e3	6.105e3	3.930e2	5.088e2	0.77	NO	9.018e2	0.14541	0.14541	0.0524
8	2,3,7,8-TCDD	26.08	1.115e4	2.187e4	8.557e2	1.459e3	0.59	YES	2.315e3	0.00000	0.31720	0.0524
9	Total Tetra-Dioxins	26.41	3.385e3	5.162e3	2.760e2	3.951e2	0.70	NO	6.711e2	0.10822	0.10822	0.0524

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.87	1.536e4	2.124e4	1.152e3	1.819e3	0.63	NO	2.971e3	0.61020	0.61020	0.0943
2	Total Penta-Dioxins	29.34	5.879e3	1.014e4	3.397e2	6.182e2	0.55	NO	9.579e2	0.19671	0.19671	0.0943
3	Total Penta-Dioxins	29.86	1.125e4	1.917e4	6.792e2	1.136e3	0.60	NO	1.815e3	0.37268	0.37268	0.0943
4	Total Penta-Dioxins	30.04	9.374e3	1.405e4	4.849e2	6.990e2	0.69	NO	1.184e3	0.24311	0.24311	0.0943
5	Total Penta-Dioxins	30.13	8.400e3	1.063e4	3.749e2	4.084e2	0.92	YES	0.000e0	0.00000	0.13670	0.0943
6	Total Penta-Dioxins	30.35	7.275e3	1.117e4	3.361e2	6.101e2	0.55	NO	0.000e0	0.00000	0.19429	0.0943
7	Total Penta-Dioxins	30.39	6.639e3	8.132e3	2.302e2	3.310e2	0.70	NO	0.000e0	0.00000	0.11525	0.0943
8	1,2,3,7,8-PeCDD	31.14	1.643e4	2.805e4	7.726e2	1.269e3	0.61	NO	2.041e3	0.41916	0.41916	0.0943
9	Total Penta-Dioxins	31.22	2.925e3	7.089e3	1.388e2	3.258e2	0.43	YES	0.000e0	0.00000	0.073760	0.0943
10	Total Penta-Dioxins	31.51	3.894e3	4.803e3	2.116e2	3.134e2	0.68	NO	5.250e2	0.10782	0.10782	0.0943

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Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.03	1.622e5	1.433e5	9.025e3	7.614e3	1.19	NO	1.664e4	4.9375	4.9375	0.119
2	Total Hexa-Dioxins	33.59	1.738e4	1.362e4	1.125e3	8.862e2	1.27	NO	2.011e3	0.59671	0.59671	0.119
3	Total Hexa-Dioxins	33.83	1.409e5	1.194e5	1.084e4	8.262e3	1.31	NO	1.910e4	5.6681	5.6681	0.119
4	Total Hexa-Dioxins	33.95	1.430e4	1.238e4	6.426e2	5.587e2	1.15	NO	1.201e3	0.35648	0.35648	0.119
5	1,2,3,4,7,8-HxCDD	34.51	9.256e3	6.031e3	4.232e2	3.471e2	1.22	NO	7.703e2	0.21076	0.21076	0.104
6	1,2,3,6,7,8-HxCDD	34.61	4.352e4	3.847e4	3.009e3	2.495e3	1.21	NO	5.505e3	1.4834	1.4834	0.110
7	Total Hexa-Dioxins	34.81	6.901e3	5.243e3	3.537e2	2.921e2	1.21	NO	6.458e2	0.19163	0.19163	0.119
8	1,2,3,7,8,9-HxCDD	34.90	1.831e4	1.432e4	1.097e3	8.796e2	1.25	NO	1.976e3	0.60642	0.60642	0.126

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.36	9.614e5	9.169e5	7.911e4	7.428e4	1.06	NO	1.534e5	66.787	66.787	0.401
2	1,2,3,4,6,7,8-HpCDD	38.40	6.913e5	6.617e5	5.541e4	5.443e4	1.02	NO	1.098e5	47.826	47.826	0.401

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Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.85	5.067e3	7.913e3	5.094e2	6.294e2	0.81	NO	1.139e3	0.17910	0.17910	0.0563
2	Total Tetra-Furans	20.39	1.851e4	1.753e4	1.235e3	1.511e3	0.82	NO	2.746e3	0.43196	0.43196	0.0563
3	Total Tetra-Furans	20.96	5.619e4	7.900e4	4.897e3	6.150e3	0.80	NO	1.105e4	1.7374	1.7374	0.0563
4	Total Tetra-Furans	21.42	8.368e3	1.353e4	6.642e2	9.546e2	0.70	NO	1.619e3	0.25461	0.25461	0.0563
5	Total Tetra-Furans	21.51	7.061e3	1.040e4	7.678e2	1.137e3	0.68	NO	1.904e3	0.29952	0.29952	0.0563
6	Total Tetra-Furans	21.90	5.033e4	6.105e4	4.264e3	5.667e3	0.75	NO	9.930e3	1.5618	1.5618	0.0563
7	Total Tetra-Furans	22.38	2.706e4	3.428e4	2.445e3	3.273e3	0.75	NO	5.718e3	0.89931	0.89931	0.0563
8	Total Tetra-Furans	22.53	3.676e3	5.008e3	3.432e2	4.402e2	0.78	NO	7.834e2	0.12321	0.12321	0.0563
9	Total Tetra-Furans	22.73	7.873e3	9.527e3	7.484e2	9.548e2	0.78	NO	1.703e3	0.26787	0.26787	0.0563
10	Total Tetra-Furans	23.34	4.661e3	9.071e3	4.012e2	5.667e2	0.71	NO	9.679e2	0.15223	0.15223	0.0563
11	Total Tetra-Furans	23.54	2.469e4	3.157e4	1.637e3	2.166e3	0.76	NO	3.804e3	0.59823	0.59823	0.0563
12	Total Tetra-Furans	23.61	5.637e4	7.282e4	6.236e3	8.449e3	0.74	NO	1.469e4	2.3096	2.3096	0.0563
13	Total Tetra-Furans	24.16	6.806e4	9.876e4	6.102e3	8.631e3	0.71	NO	1.473e4	2.3172	2.3172	0.0563
14	Total Tetra-Furans	24.46	5.171e3	8.955e3	4.047e2	6.171e2	0.66	NO	1.022e3	0.16072	0.16072	0.0563
15	Total Tetra-Furans	24.67	5.132e3	7.420e3	3.861e2	5.836e2	0.66	NO	9.698e2	0.15252	0.15252	0.0563
16	Total Tetra-Furans	24.90	3.292e3	5.154e3	2.295e2	3.042e2	0.75	NO	5.337e2	0.083935	0.083935	0.0563
17	Total Tetra-Furans	25.02	4.129e4	5.192e4	3.154e3	4.224e3	0.75	NO	7.378e3	1.1604	1.1604	0.0563
18	2,3,7,8-TCDF	25.15	8.673e4	1.287e5	6.773e3	9.437e3	0.72	NO	1.621e4	2.5495	2.5495	0.0563
19	Total Tetra-Furans	25.54	1.088e4	1.215e4	8.082e2	9.681e2	0.83	NO	1.776e3	0.27938	0.27938	0.0563
20	Total Tetra-Furans	26.75	3.308e3	4.659e3	2.155e2	2.766e2	0.78	NO	4.922e2	0.077407	0.077407	0.0563
21	Total Tetra-Furans	26.92	2.814e3	3.661e3	1.685e2	2.216e2	0.76	NO	3.901e2	0.061350	0.061350	0.0563
22	Total Tetra-Furans	27.22	2.094e4	2.856e4	1.361e3	1.808e3	0.75	NO	3.169e3	0.49848	0.49848	0.0563

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.19	3.607e5	2.277e5	2.280e4	1.411e4	1.62	NO	3.691e4	5.8465	5.8465	0.0236

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.68	1.498e4	1.266e4	8.893e2	6.477e2	1.37	NO	1.537e3	0.24346	0.24346	0.213
2	Total Penta-Furans	28.81	1.656e5	1.090e5	1.710e4	1.094e4	1.56	NO	2.805e4	4.4424	4.4424	0.213
3	Total Penta-Furans	28.88	1.723e4	1.193e4	5.642e2	4.099e2	1.38	NO	9.742e2	0.15431	0.15431	0.213
4	Total Penta-Furans	29.42	1.586e5	9.230e4	9.410e3	5.907e3	1.59	NO	1.532e4	2.4262	2.4262	0.213
5	Total Penta-Furans	29.63	6.318e4	3.401e4	3.180e3	1.920e3	1.66	NO	5.100e3	0.80780	0.80780	0.213
6	1,2,3,7,8-PeCDF	29.83	1.989e5	1.269e5	1.167e4	7.202e3	1.62	NO	1.887e4	2.8708	2.8708	0.215
7	Total Penta-Furans	30.09	8.568e4	6.016e4	4.590e3	3.159e3	1.45	NO	7.750e3	1.2276	1.2276	0.213
8	Total Penta-Furans	30.71	9.800e3	7.722e3	4.894e2	3.004e2	1.63	NO	7.898e2	0.12511	0.12511	0.213
9	2,3,4,7,8-PeCDF	30.82	1.239e5	8.007e4	7.594e3	5.023e3	1.51	NO	1.262e4	1.9633	1.9633	0.198
10	Total Penta-Furans	30.87	6.658e4	3.203e4	1.225e3	7.174e2	1.71	NO	1.942e3	0.30763	0.30763	0.213
11	Total Penta-Furans	31.78	9.235e3	5.132e3	4.599e2	3.309e2	1.39	NO	7.908e2	0.12526	0.12526	0.213

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.47	8.458e4	7.089e4	4.616e3	3.906e3	1.18	NO	8.521e3	2.1926	2.1926	0.0849
2	Total Hexa-Furans	32.64	2.080e5	1.700e5	1.123e4	9.243e3	1.22	NO	2.048e4	5.2689	5.2689	0.0849
3	Total Hexa-Furans	33.19	2.603e5	2.110e5	1.395e4	1.133e4	1.23	NO	2.528e4	6.5045	6.5045	0.0849
4	1,2,3,4,7,8-HxCDF	33.64	2.153e5	1.810e5	1.210e4	1.043e4	1.16	NO	2.254e4	5.8572	5.8572	0.0769
5	1,2,3,6,7,8-HxCDF	33.77	6.073e4	6.030e4	3.859e3	3.403e3	1.13	NO	7.261e3	1.6977	1.6977	0.0749
6	2,3,4,6,7,8-HxCDF	34.35	3.587e4	2.508e4	2.116e3	1.690e3	1.25	NO	3.806e3	1.0223	1.0223	0.0864
7	1,2,3,7,8,9-HxCDF	35.26	1.278e4	1.388e4	5.556e2	4.406e2	1.26	NO	9.963e2	0.32455	0.32455	0.124
8	Total Hexa-Furans	35.27	1.848e4	1.348e4	7.562e2	6.371e2	1.19	NO	1.393e3	0.35851	0.35851	0.0849

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.98	3.023e5	3.122e5	2.390e4	2.400e4	1.00	NO	4.790e4	18.559	18.559	0.191
2	Total Hepta-Furans	37.57	3.286e5	3.448e5	2.661e4	2.672e4	1.00	NO	5.333e4	24.426	24.426	0.209
3	1,2,3,4,7,8,9-HpCDF	38.98	2.173e4	1.999e4	1.281e3	1.314e3	0.97	NO	2.596e3	1.2517	1.2517	0.203

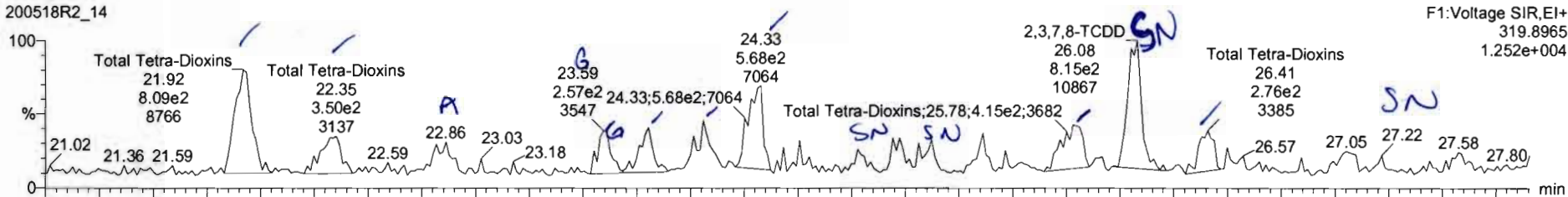
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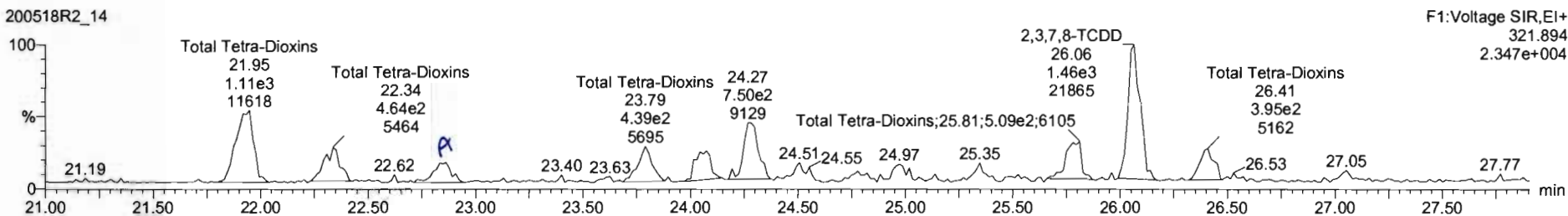
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2,3,7,8-TCDD

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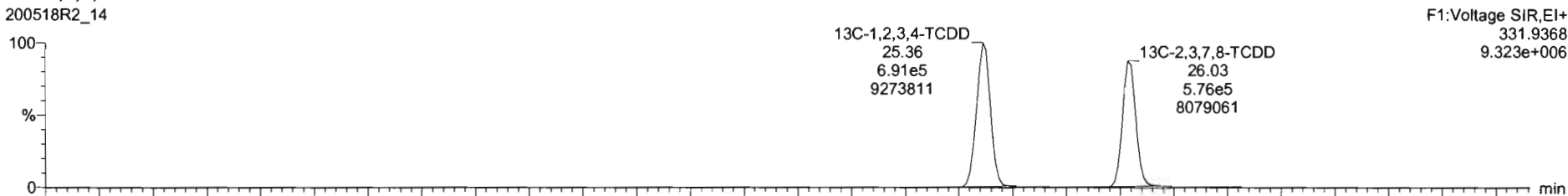


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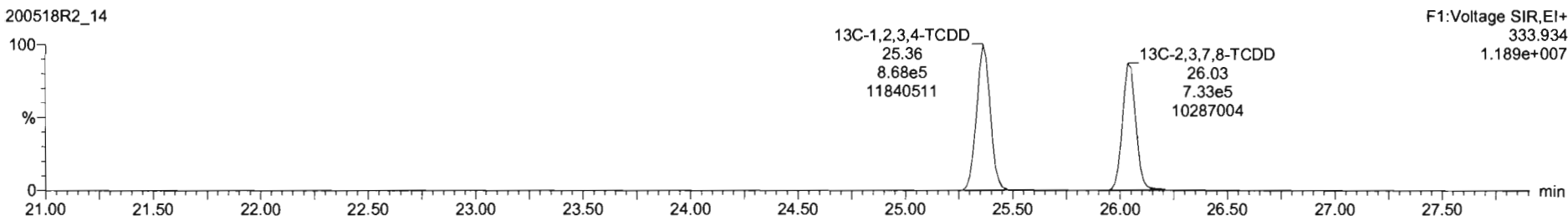


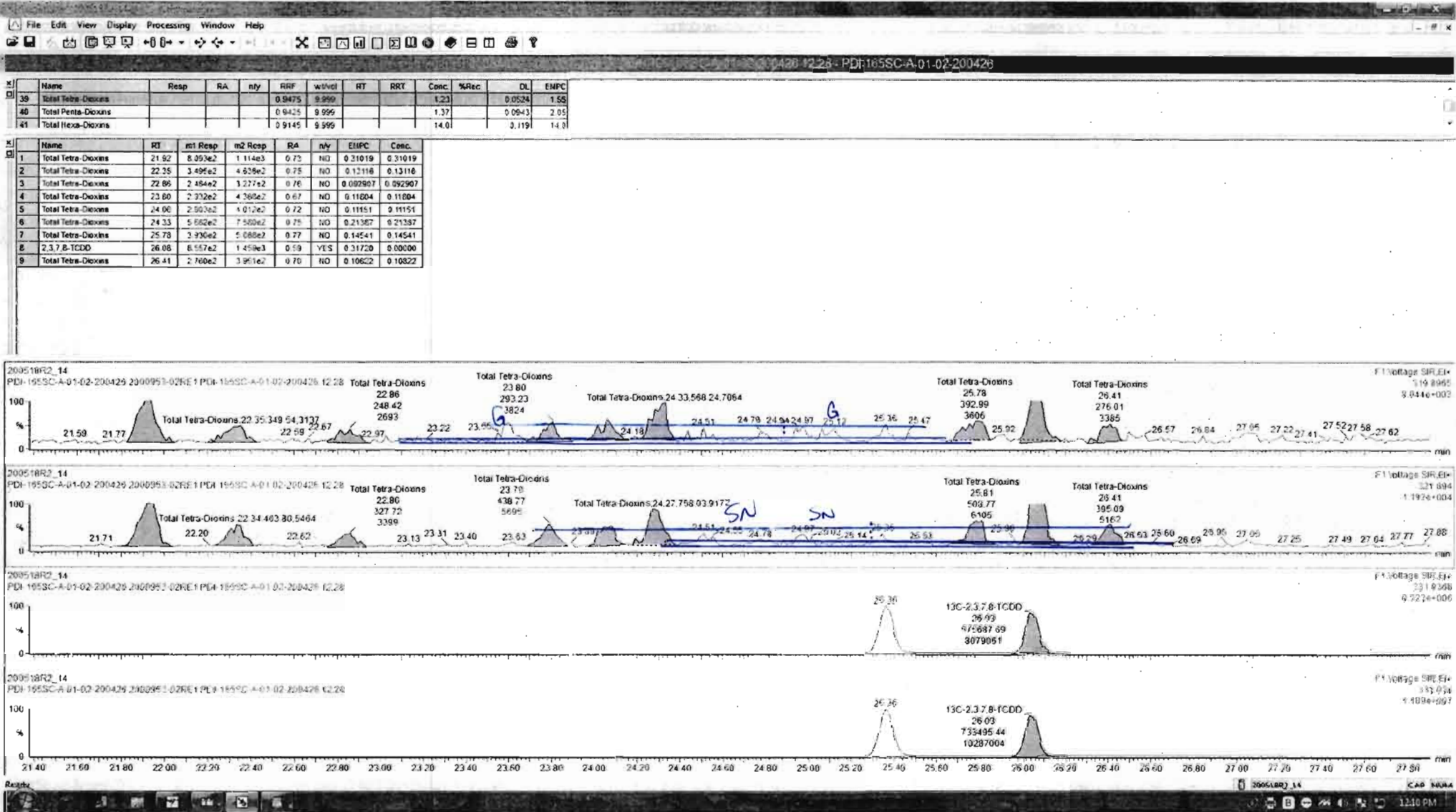
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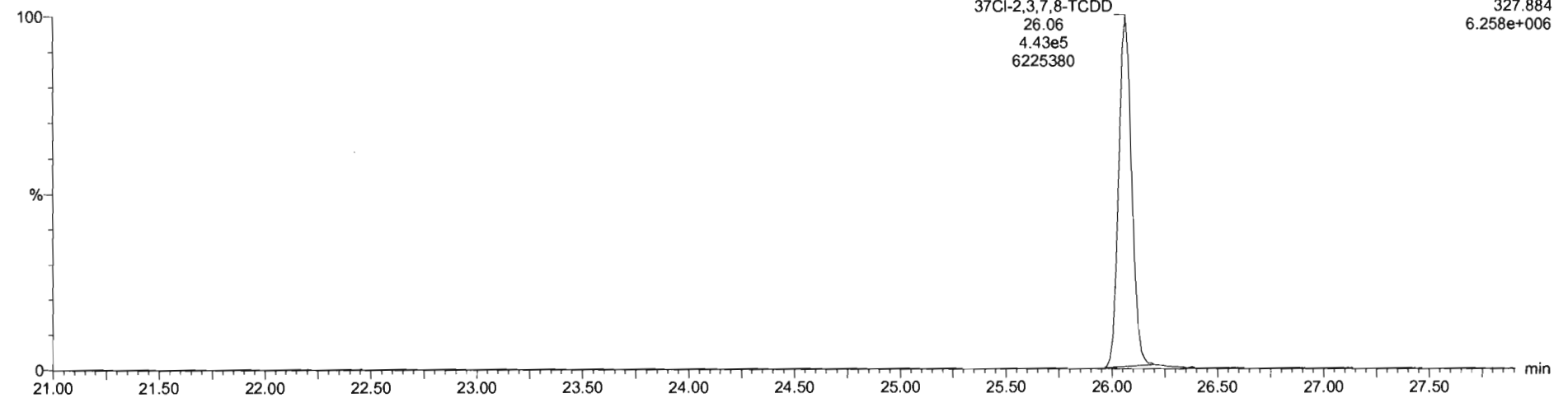
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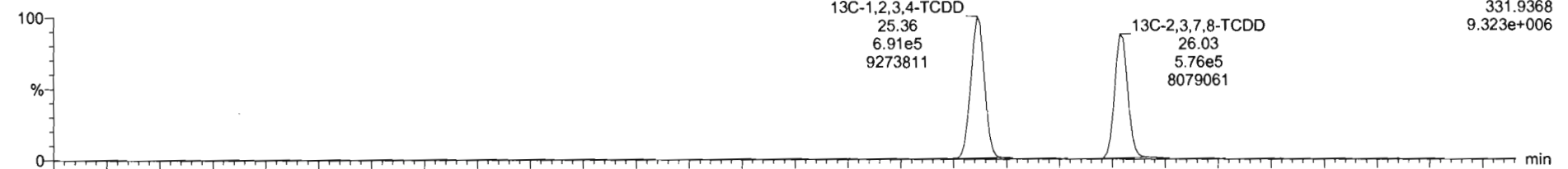
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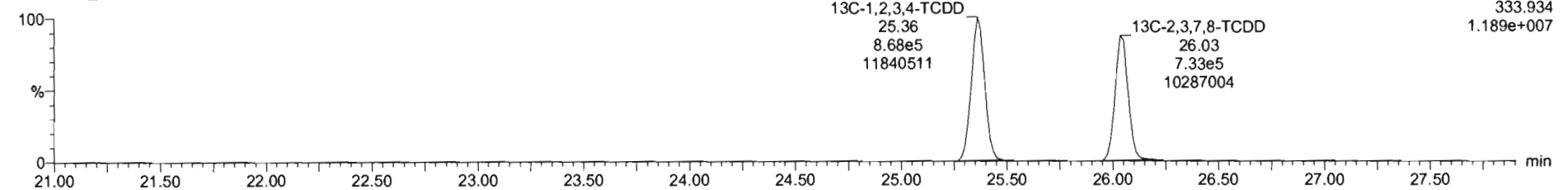


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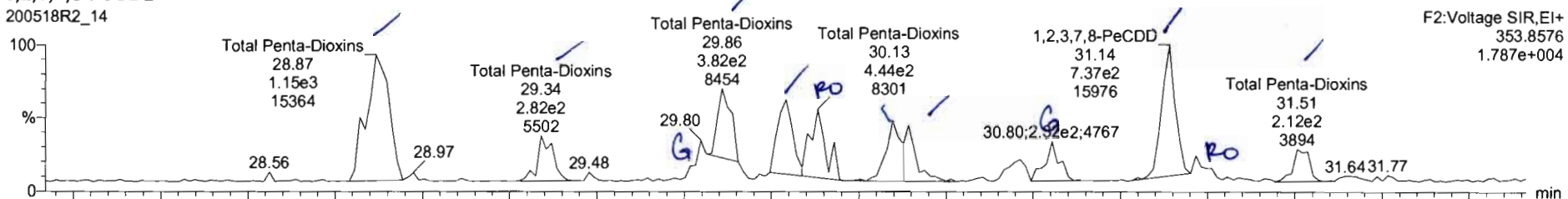
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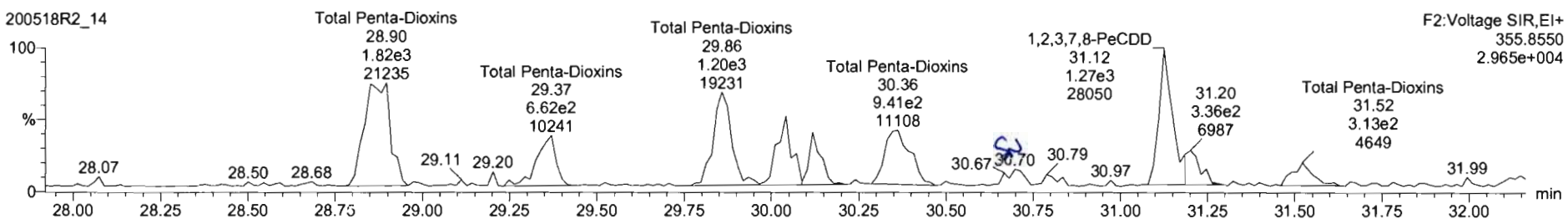
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1,2,3,7,8-PeCDD

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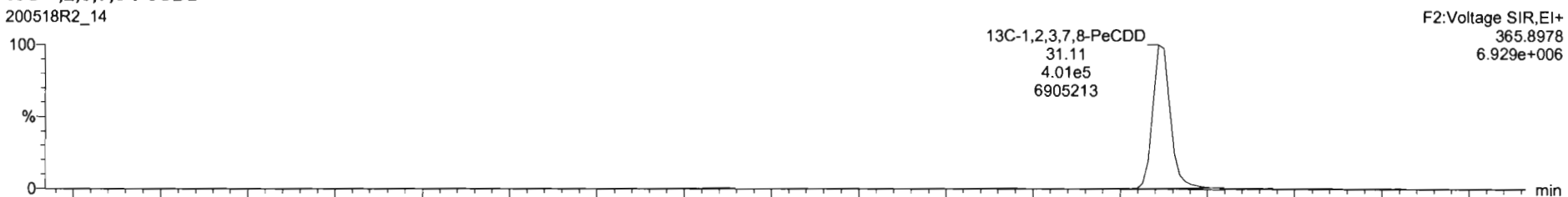


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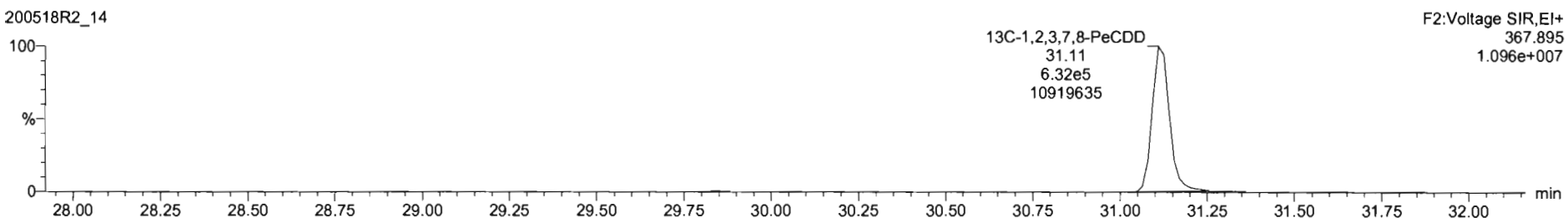


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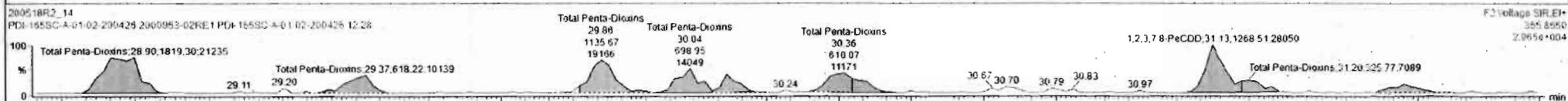
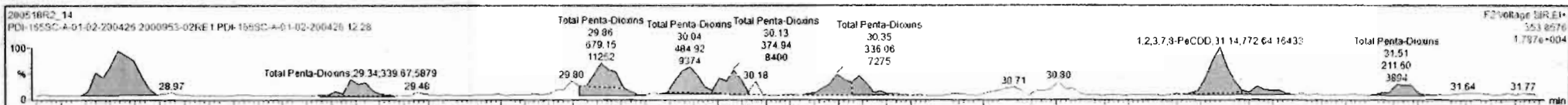


200518R2_14



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	5.358			1.23		0.0574	1.55
40 Total Penta-Dioxins				0.9425	9.999			1.95		0.0943	2.47
41 Total Hexa-Dioxins				0.9145	9.999			14.0		0.119	14.0

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.87	1.152e3	1.819e1	0.63	ND	0.61020	0.61020
2 Total Penta-Dioxins	29.34	3.397e2	8.182e2	0.55	ND	0.19671	0.19671
3 Total Penta-Dioxins	29.86	6.782e2	1.135e3	0.60	ND	0.37268	0.37268
4 Total Penta-Dioxins	30.04	4.849e2	6.990e2	0.69	ND	0.24311	0.24311
5 Total Penta-Dioxins	30.13	3.749e2	4.094e2	0.52	YES	0.13670	0.00000
6 Total Penta-Dioxins	30.35	3.361e2	6.101e2	0.55	ND	0.19429	0.00000
7 Total Penta-Dioxins	30.39	2.302e2	3.310e2	0.70	ND	0.11525	0.00000
8 1,2,3,7,8-PeCDD	31.14	7.726e2	1.269e3	0.61	ND	0.41918	0.41918
9 Total Penta-Dioxins	31.22	1.306e2	3.258e2	0.43	YES	0.073760	0.00000
10 Total Penta-Dioxins	31.51	2.116e2	3.134e2	0.68	ND	0.10782	0.10782



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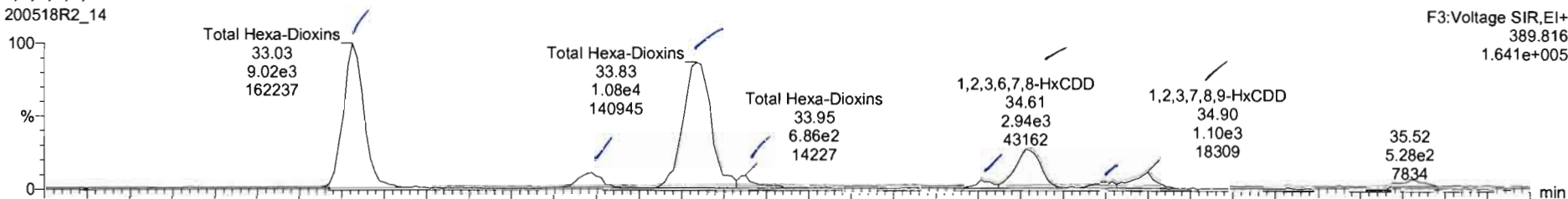
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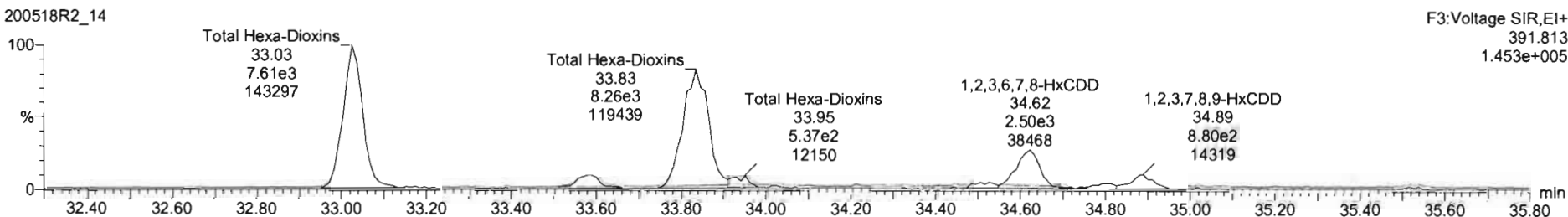
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1,2,3,4,7,8-HxCDD

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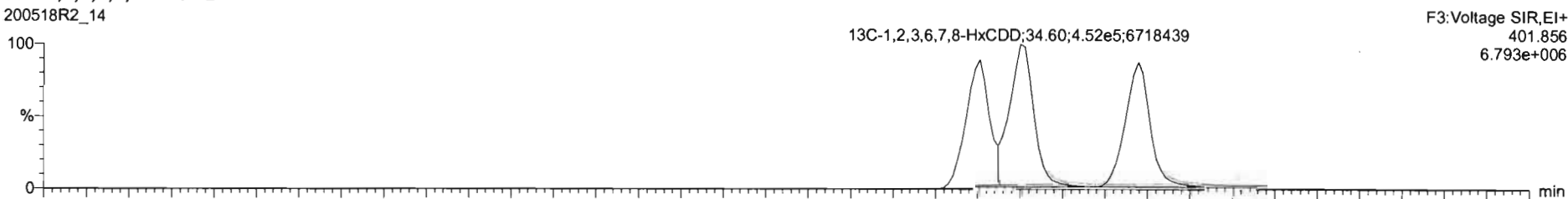


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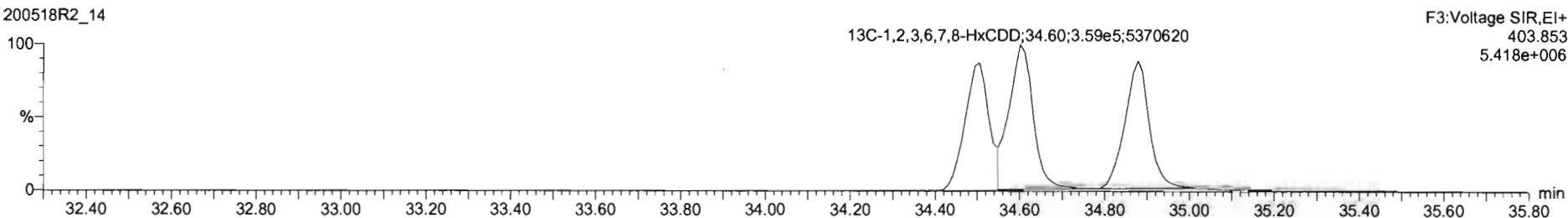


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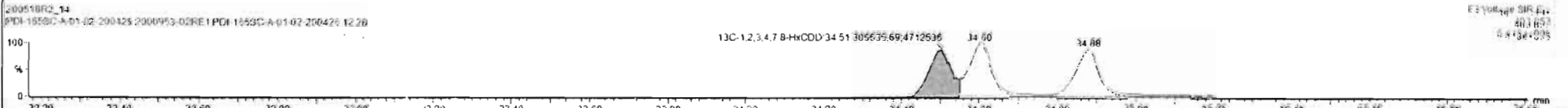
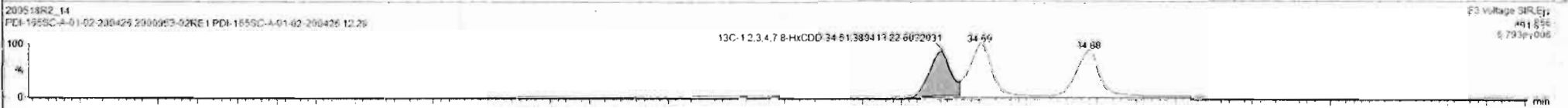
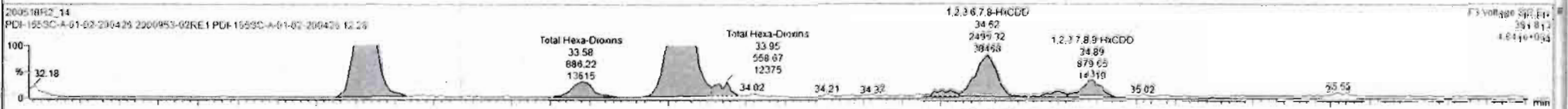
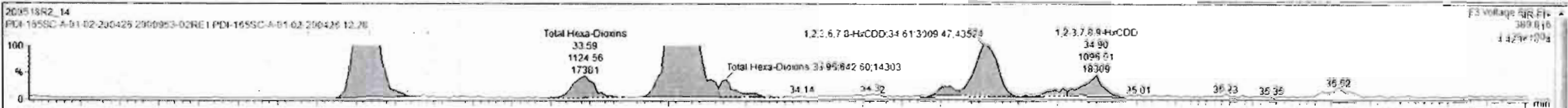


200518R2_14



Name	Resp	RA	n/y	RRF	retVol	RT	RRT	Conc	%Rec	DI	EMPC
39 Total Tetra-Dioxins				0.9475	9.959			1.22		0.0524	1.55
40 Total Penta-Dioxins				0.6425	8.999			1.95		0.0543	2.47
41 Total Hexa-Dioxins				0.9145	9.990			14.11		0.119	14.1

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	33.03	9.025e3	7.614e3	1.19	NO	4.9375	4.9375
2 Total Hexa-Dioxins	33.59	1.125e3	8.862e2	1.27	NO	0.59671	0.59671
3 Total Hexa-Dioxins	33.83	1.084e4	6.302e3	1.31	NO	5.6681	5.6681
4 Total Hexa-Dioxins	33.95	6.426e2	5.597e2	1.15	NO	0.35648	0.35648
5 1,2,3,4,7,8-HxCDD	34.51	4.232e2	3.471e2	1.22	NO	0.21076	0.21076
6 1,2,3,6,7,8-HxCDD	34.61	3.009e3	2.495e3	1.21	NO	1.4834	1.4834
7 Total Hexa-Dioxins	34.61	3.537e2	2.921e2	1.21	NO	0.19163	0.19163
8 1,2,3,7,8,9-HxCDD	34.90	1.097e3	8.796e2	1.25	NO	0.60642	0.60642



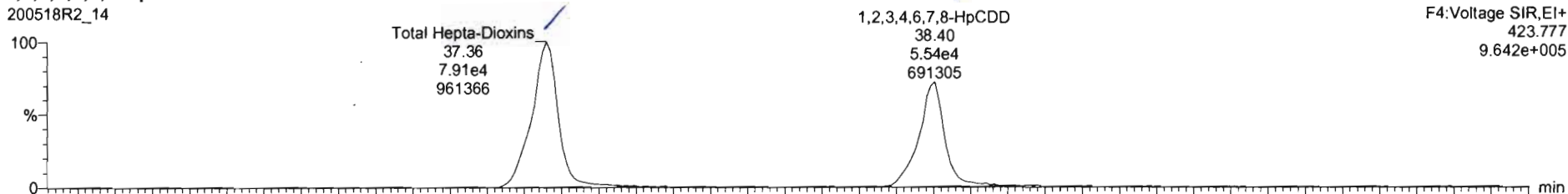
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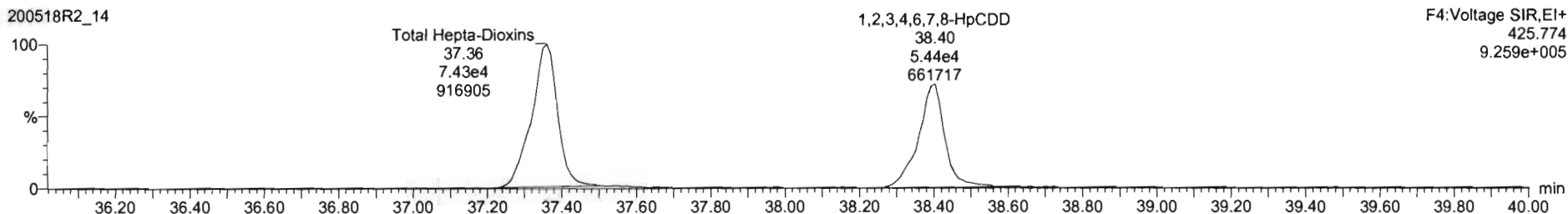
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1,2,3,4,6,7,8-HpCDD

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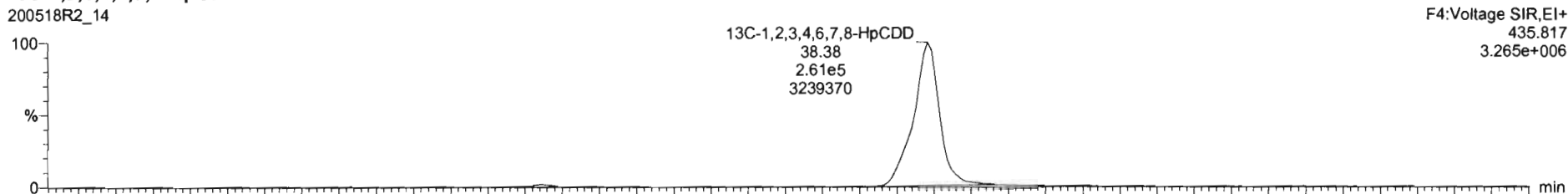


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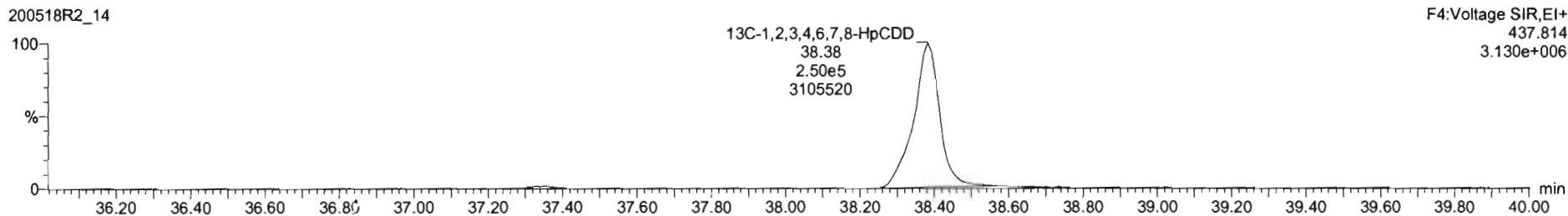


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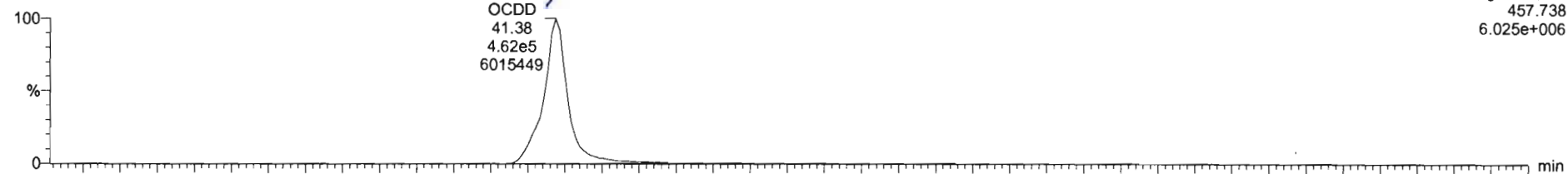
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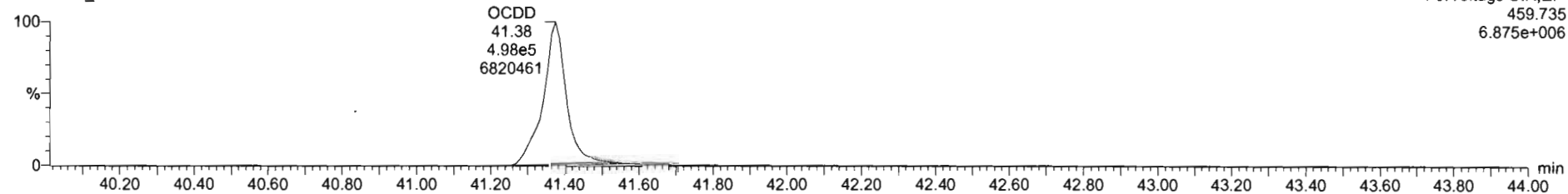
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OCDD

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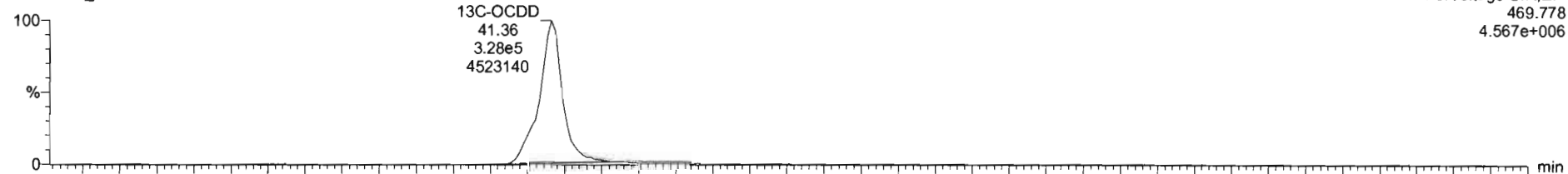


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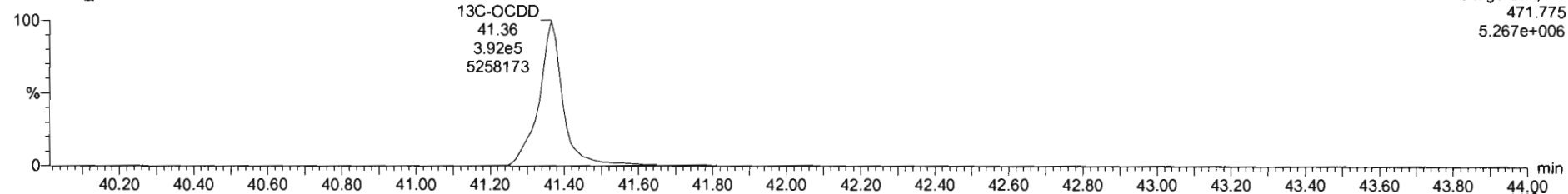


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200518R2_14



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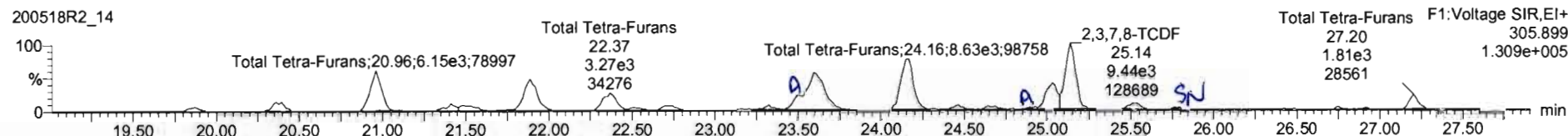
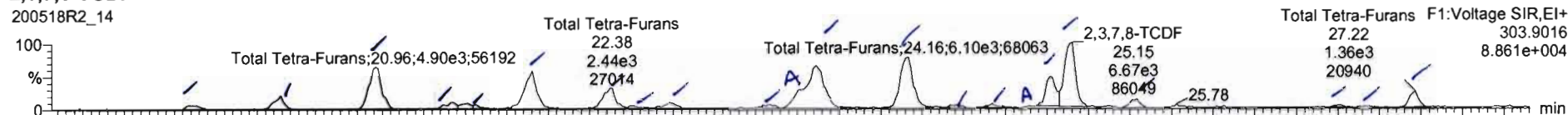


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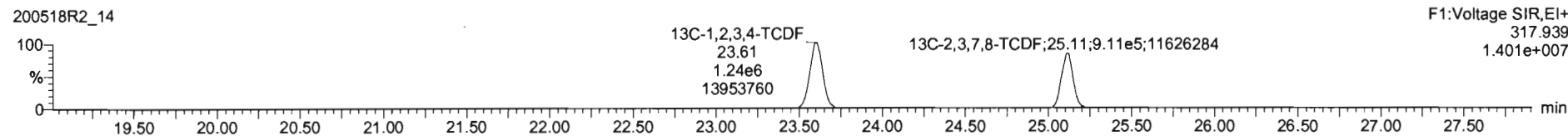
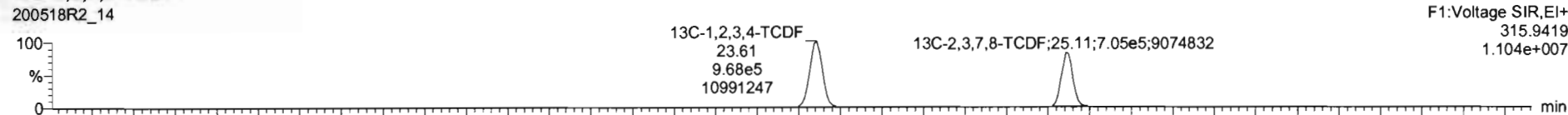
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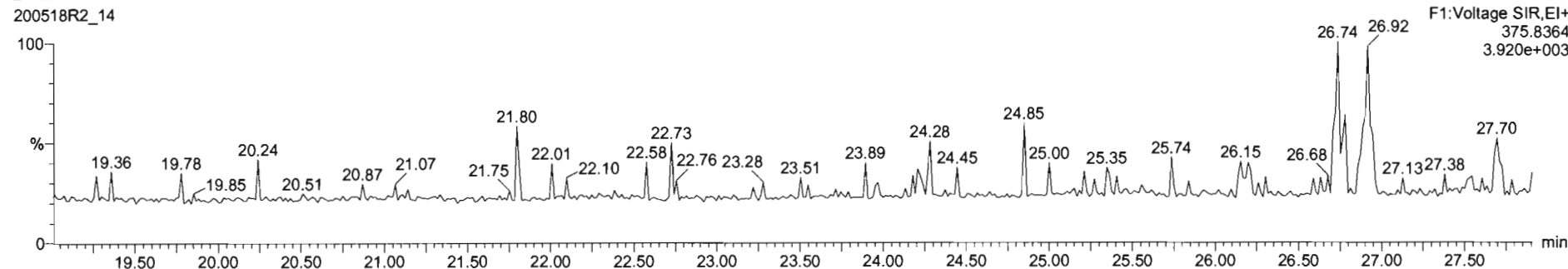
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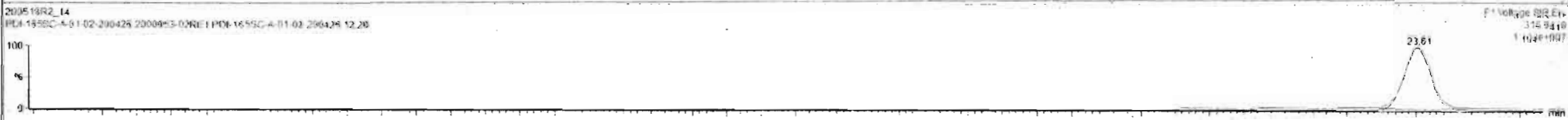
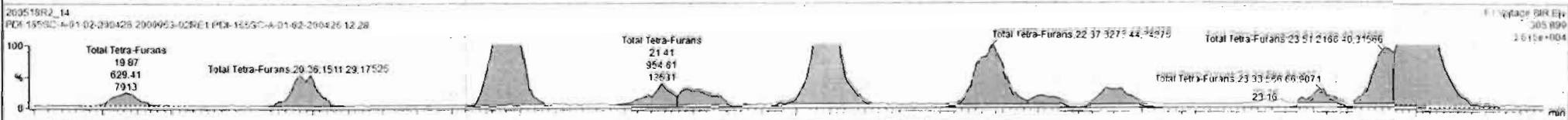
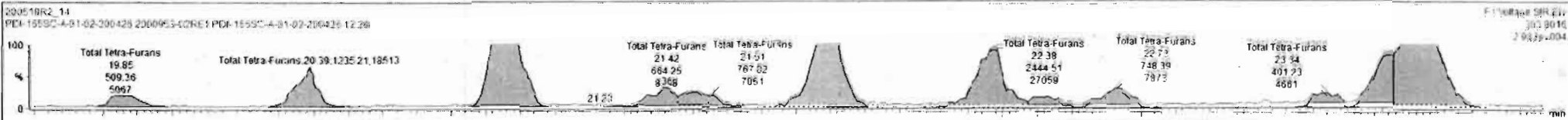


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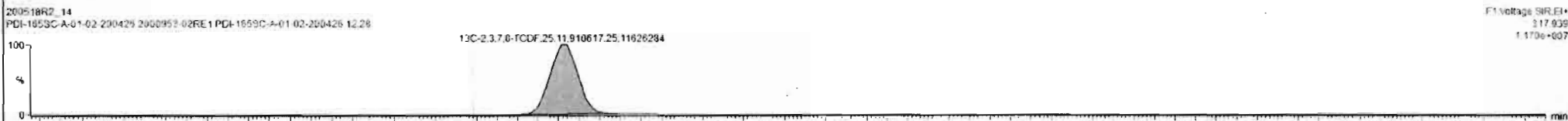
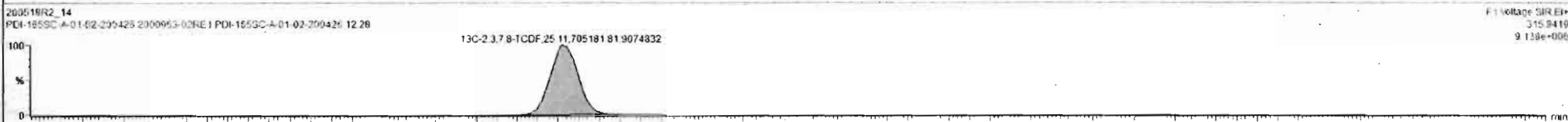
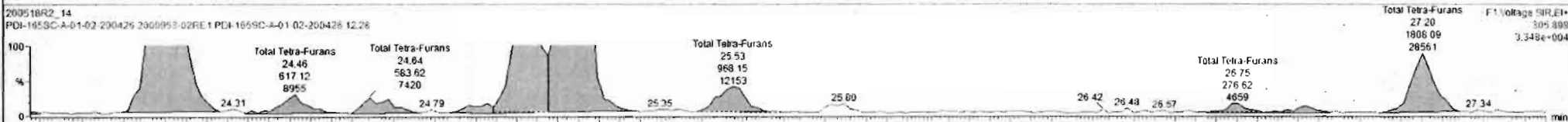
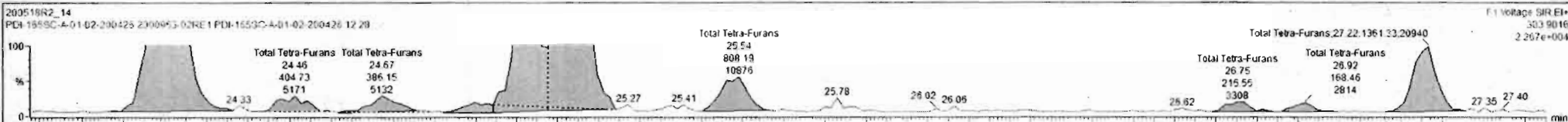
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxins				0.0575	9.956			115		0.401	115
43 Total Tetra-Furans				0.7871	9.999			14.6		0.0583	15.9
44 1st Func. Penta-Furans				0.5102	9.999			5.851		0.02361	5.85

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	19.85	5.094e2	6.294e2	0.81	ND	0.17910	0.17910
2 Total Tetra-Furans	20.29	1.225e3	1.511e3	0.82	ND	0.43198	0.43196
3 Total Tetra-Furans	20.96	4.807e2	6.150e3	0.80	ND	1.7324	1.7324
4 Total Tetra-Furans	21.42	6.642e2	9.546e2	0.70	ND	0.25461	0.25461
5 Total Tetra-Furans	21.51	7.673e2	1.137e3	0.68	ND	0.25862	0.25862
6 Total Tetra-Furans	21.90	4.264e3	5.867e3	0.75	ND	1.5618	1.5618
7 Total Tetra-Furans	22.38	2.445e3	3.273e3	0.75	ND	0.89601	0.89601
8 Total Tetra-Furans	22.53	3.432e2	4.402e2	0.70	ND	0.12321	0.12321
9 Total Tetra-Furans	22.73	7.404e2	9.548e2	0.76	ND	0.26787	0.26787
10 Total Tetra-Furans	23.34	4.012e2	5.967e2	0.71	ND	0.15223	0.15223
11 Total Tetra-Furans	23.54	1.627e3	2.166e3	0.76	ND	0.59823	0.59823
12 Total Tetra-Furans	23.61	6.230e2	8.449e3	0.74	ND	2.3096	2.3096



Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxans				0.8975	9.950			115		0.401	115
43 Total Tetra-Furans				0.7871	9.990			16.2		0.0583	16.2
44 1st Func. Penta-Furans				0.9102	9.999			5.85		0.0236	5.85

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
13 Total Tetra-Furans	24.16	6.102e3	8.631e3	0.71	NO	2.3172	2.3172
14 Total Tetra-Furans	24.46	4.047e2	6.171e2	0.66	NO	0.16072	0.16072
15 Total Tetra-Furans	24.67	3.861e2	5.835e2	0.66	NO	0.15252	0.15252
16 Total Tetra-Furans	24.90	2.295e2	3.042e2	0.75	NO	0.083935	0.083935
17 Total Tetra-Furans	25.02	3.154e3	4.224e3	0.75	NO	1.1604	1.1604
18 2,3,7,8-TCDF	25.15	6.773e3	9.437e3	0.72	NO	2.5495	2.5495
19 Total Tetra-Furans	25.54	8.082e2	9.681e2	0.83	NO	0.27938	0.27938
20 Total Tetra-Furans	26.75	2.155e2	2.766e2	0.78	NO	0.077407	0.077407
21 Total Tetra-Furans	26.92	1.685e2	2.215e2	0.76	NO	0.061350	0.061350
22 Total Tetra-Furans	27.22	1.361e3	1.808e3	0.75	NO	0.49848	0.49848



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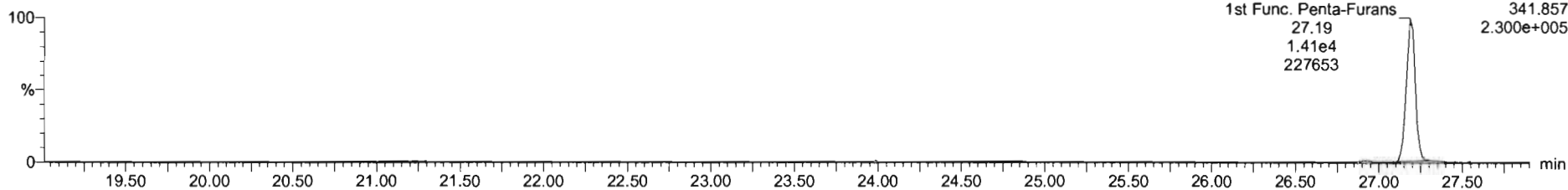
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1st Func. Penta-Furans

200518R2_14

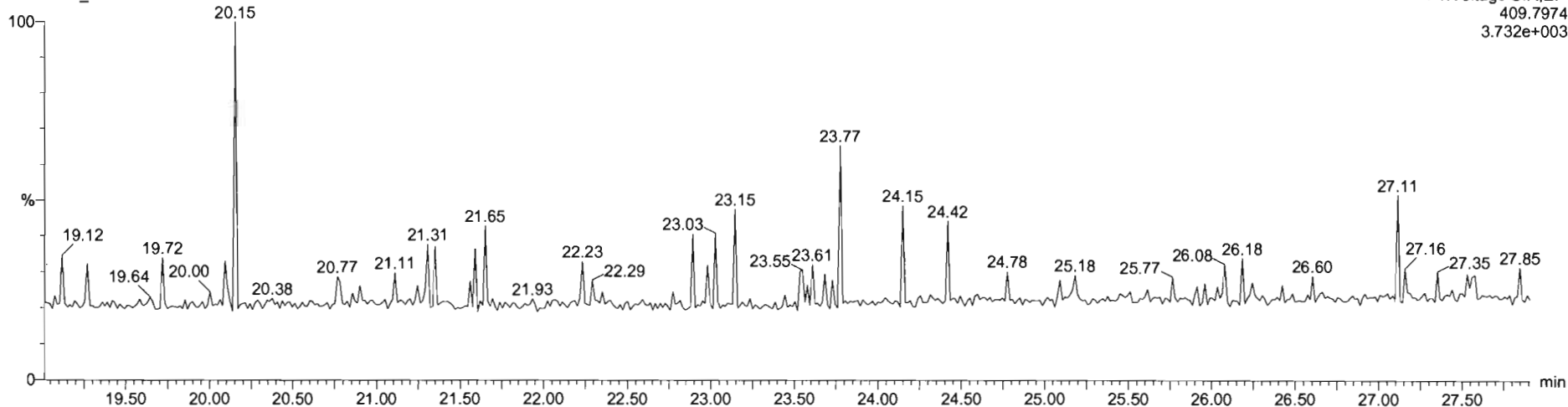


200518R2_14



DPE6

200518R2_14



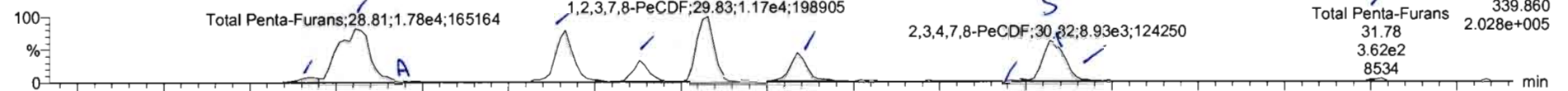
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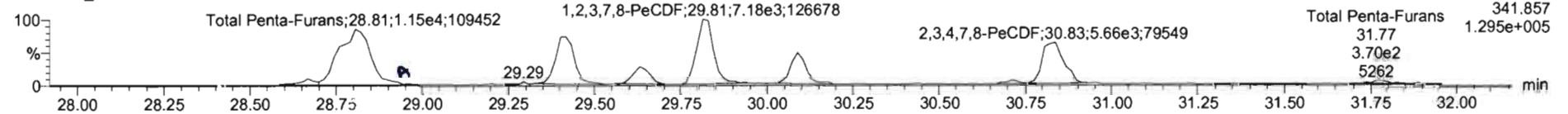
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1,2,3,7,8-PeCDF

200518R2_14

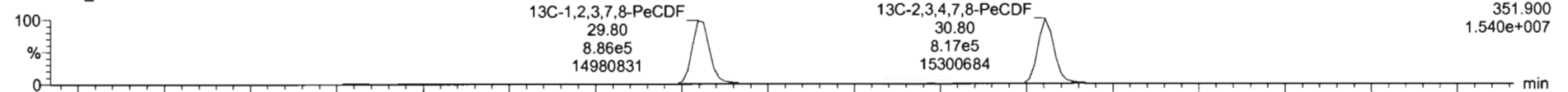


200518R2_14

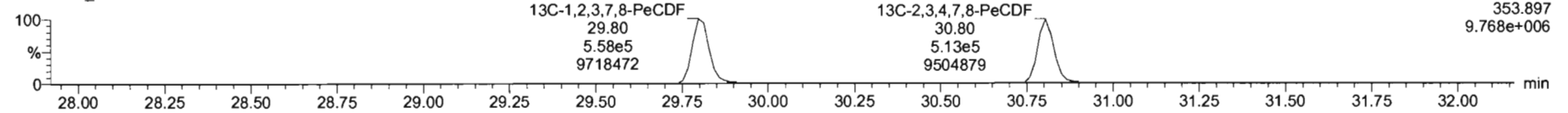


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200518R2_14

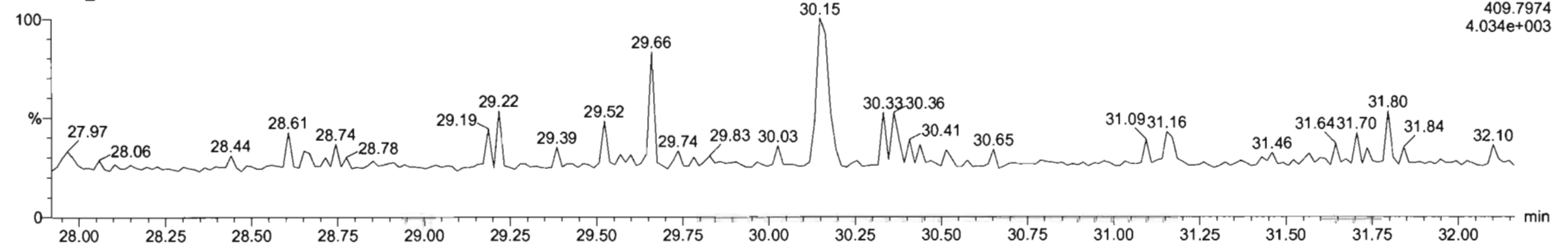


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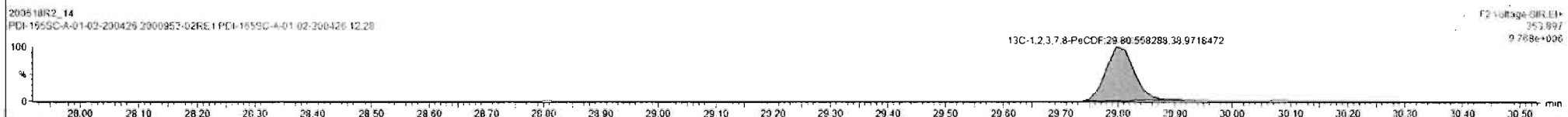
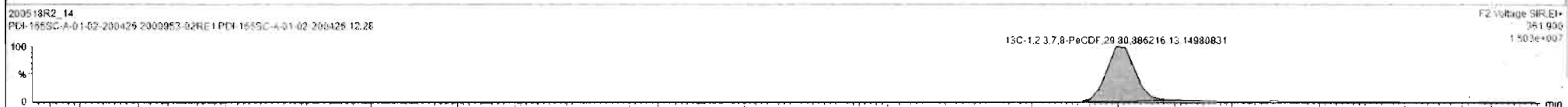
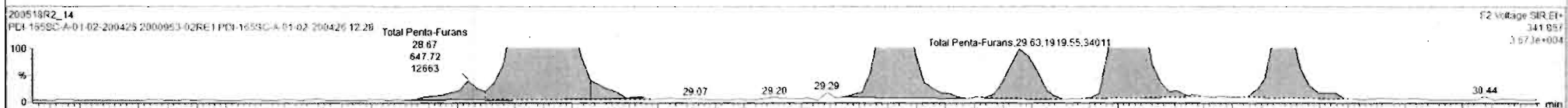
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200518R2_14



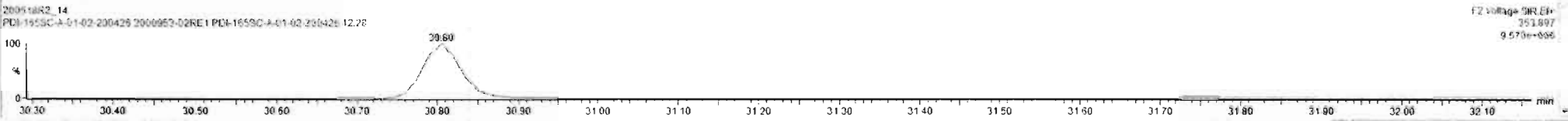
Name	Resp	RA	m/y	RRf	wt/Vol	IRT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	9.999			14.6		0.213	14.7
46 Total Hexa-Furans				0.9217	9.999			23.4		0.0849	23.4
47 Total Hepta-Furans				0.8712	9.999			44.5		0.2091	44.5

Name	RT	m1 Resp	m2 Resp	RA	m/y	EMPC	Conc.
1 Total Penta-Furans	28.68	8.893e2	6.477e2	1.37	NO	0.24348	0.24346
2 Total Penta-Furans	28.81	1.710e4	1.094e4	1.56	NO	4.4424	4.4424
3 Total Penta-Furans	28.88	5.842e2	4.099e2	1.38	NO	0.15421	0.15431
4 Total Penta-Furans	29.42	9.410e3	5.907e3	1.59	NO	2.4262	2.4262
5 Total Penta-Furans	29.62	2.100e3	1.920e3	1.66	NO	0.80780	0.80780
6 1,2,3,7,8-PeCDF	29.83	1.167e4	7.202e3	1.62	NO	2.8708	2.8708
7 Total Penta-Furans	30.09	4.590e3	3.159e3	1.45	NO	1.2276	1.2276
8 Total Penta-Furans	30.71	4.944e2	3.004e2	1.65	NO	0.12590	0.12590
9 2,3,4,7,8-PeCDF	30.82	8.526e3	5.663e3	1.56	NO	2.2704	2.2704
10 Total Penta-Furans	31.78	3.822e2	3.705e2	0.98	YES	0.094425	0.09000



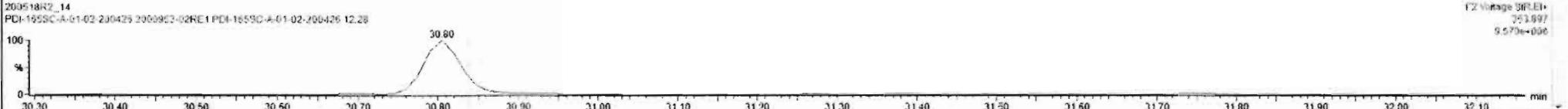
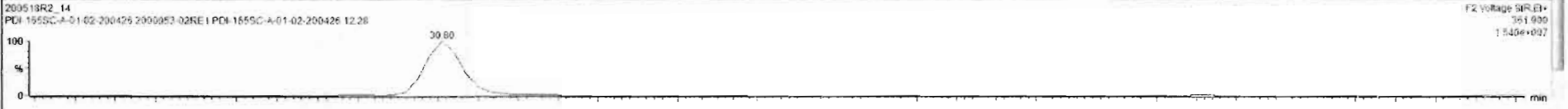
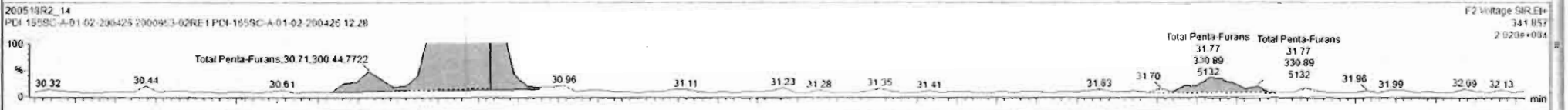
Name	Resp	RA	n/y	R/R	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	9.999			14.7		0.213	14.7
46 Total Hexa-Furans				0.9217	9.999			23.4		0.0649	23.4
47 Total Hepta-Furans				0.8712	9.999			44.51		0.2091	44.51

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.68	8.853e2	6.477e2	1.37	NO	0.24746	0.24346
2 Total Penta-Furans	28.81	1.710e4	1.094e4	1.58	NO	4.4424	4.4424
3 Total Penta-Furans	28.88	5.842e2	4.099e2	1.38	NO	0.15421	0.15431
4 Total Penta-Furans	29.42	9.410e3	5.907e3	1.59	NO	2.4262	2.4262
5 Total Penta-Furans	29.63	3.180e3	1.920e3	1.66	NO	0.05780	0.00760
6 1,2,3,7,8-PeCDF	29.83	1.167e4	7.202e3	1.62	NO	2.8708	2.8708
7 Total Penta-Furans	30.09	4.590e3	3.159e3	1.45	NO	1.2276	1.2276
8 Total Penta-Furans	30.71	4.894e2	3.004e2	1.62	NO	0.12511	0.12511
9 2,3,4,7,8-PeCDF	30.82	7.594e3	5.023e3	1.51	NO	1.9613	1.9633
10 Total Penta-Furans	30.87	1.225e3	7.174e2	1.71	NO	0.30763	0.30763
11 Total Penta-Furans	31.78	4.599e2	3.309e2	1.39	NO	0.12526	0.12526



Home	Resp	RA	n/y	RRF	rw/pt	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans			0.9102	9.999			14.7		0.213	14.7
46	Total Hexa-Furans			0.9217	9.999			23.4		0.0849	23.4
47	Total Hepta-Furans			0.8712	9.999			44.5		0.209	44.5

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.65	8.593e2	5.477e2	1.37	NO	0.24348	0.24346
2 Total Penta-Furans	28.81	1.710e4	1.094e4	1.56	NO	4.4424	4.4424
3 Total Penta-Furans	28.88	5.542e2	4.099e2	1.38	NO	0.15431	0.15431
4 Total Penta-Furans	29.42	9.410e3	5.907e3	1.59	NO	2.4262	2.4262
5 Total Penta-Furans	29.63	3.180e3	1.920e3	1.66	NO	0.60768	0.60768
6 1,2,3,7,8-PeCDF	29.83	1.167e4	7.202e3	1.62	NO	2.8708	2.8708
7 Total Penta-Furans	30.09	4.590e3	3.159e3	1.45	NO	1.2276	1.2276
8 Total Penta-Furans	30.71	4.594e2	3.004e2	1.63	NO	0.12511	0.12511
9 2,3,4,7,8-PeCDF	30.82	7.594e3	5.023e3	1.51	NO	1.9633	1.9633
10 Total Penta-Furans	30.87	1.225e3	7.174e2	1.71	NO	0.30763	0.30763
11 Total Penta-Furans	31.78	4.599e2	3.309e2	1.39	NO	0.12526	0.12526



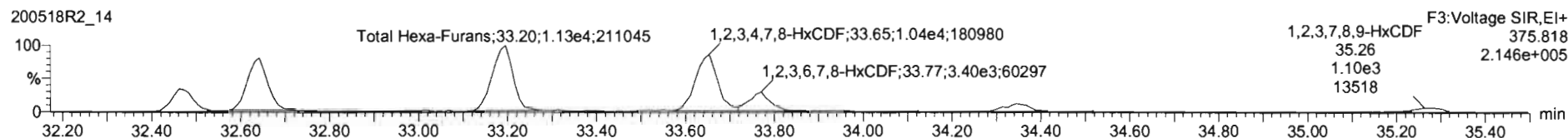
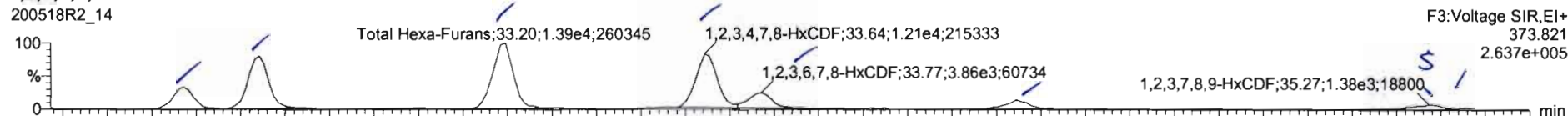
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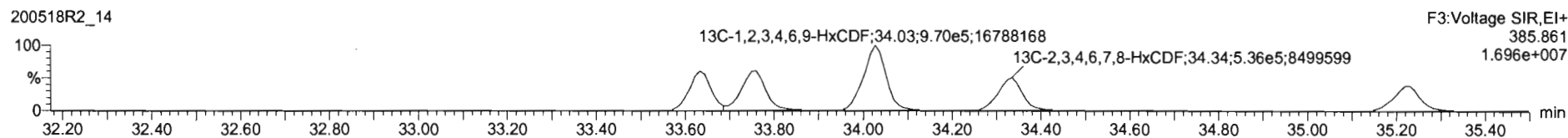
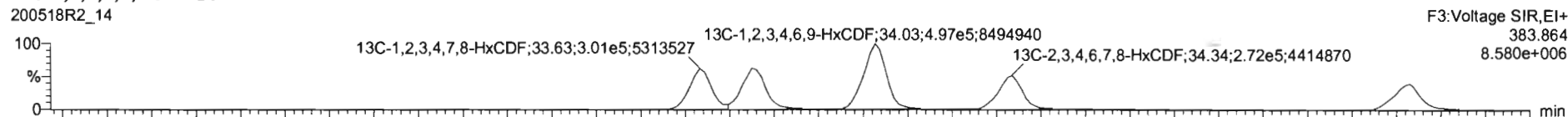
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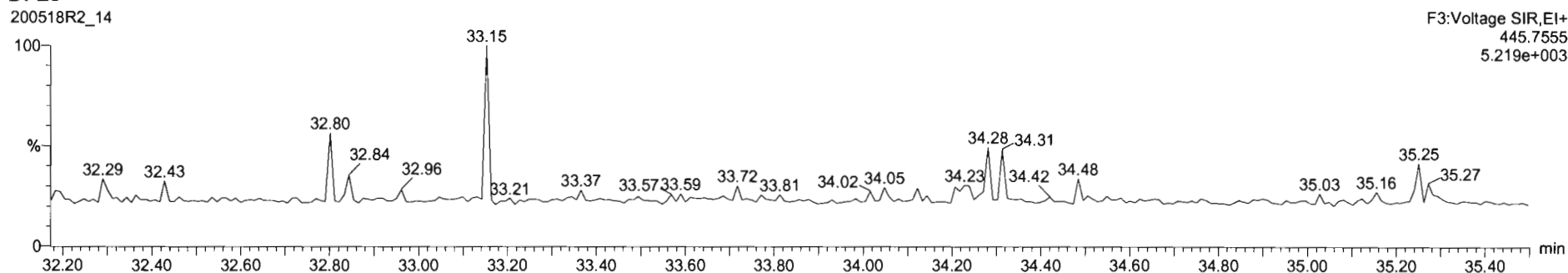
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13C-1,2,3,4,7,8-HxCDF

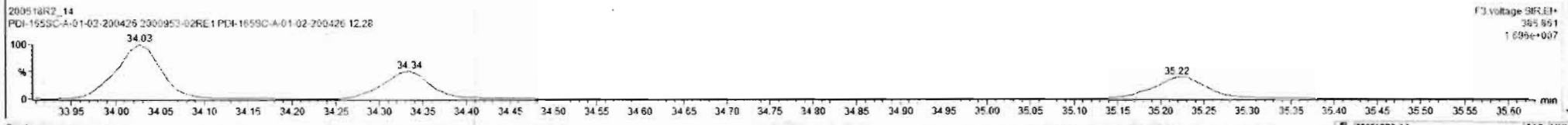
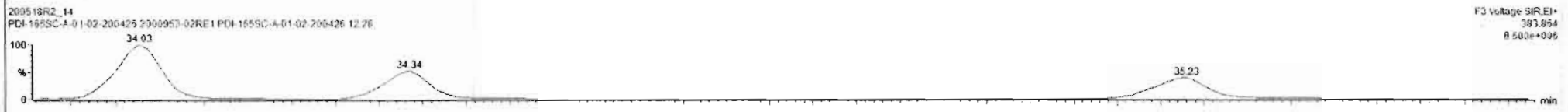
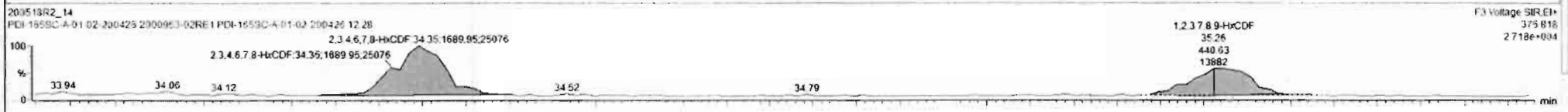
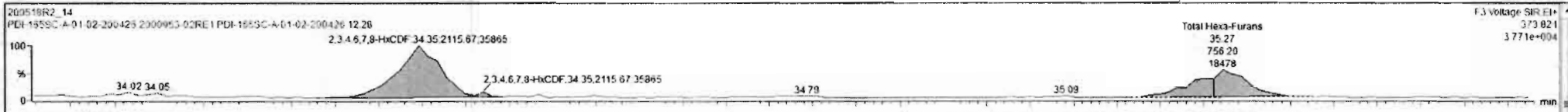


DPE3



#	Name	Resp	RA	m1	m2	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans					0.9102	9.950			14.7		0.213	14.7
46	Total Hexa-Furans					0.9217	9.999			23.2		0.0849	23.2
47	Total Hepta-Furans					0.8712	9.595			44.5		0.209	44.5

#	Name	RT	m1 Resp	m2 Resp	RA	m1	EMPC	Conc.
1	Total Hexa-Furans	34.47	4.616e3	3.906e3	1.18	NO	2.1926	2.1926
2	Total Hexa-Furans	32.64	1.123e4	9.243e3	1.22	NO	5.2689	5.2689
3	Total Hexa-Furans	33.19	1.395e4	1.133e4	1.23	NO	6.5045	6.5045
4	1,2,3,4,7,8-HxCDF	33.64	1.210e4	1.043e4	1.16	NO	5.8572	5.8572
5	1,2,3,6,7,8-HxCDF	33.77	3.859e3	3.403e3	1.12	NO	1.6977	1.6977
6	2,3,4,6,7,8-HxCDF	34.35	2.116e3	1.690e3	1.25	NO	1.0223	1.0223
7	1,2,3,7,8,9-HxCDF	35.26	5.556e2	4.406e2	1.26	NO	0.32455	0.32455
8	Total Hexa-Furans	35.27	7.562e2	6.371e2	1.19	NO	0.35691	0.35691



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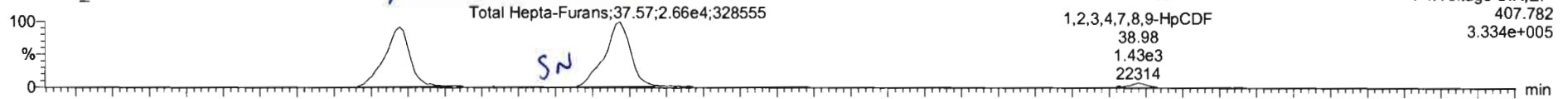
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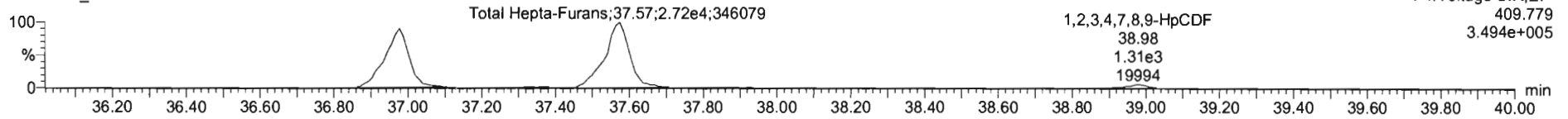
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1,2,3,4,6,7,8-HpCDF

200518R2_14

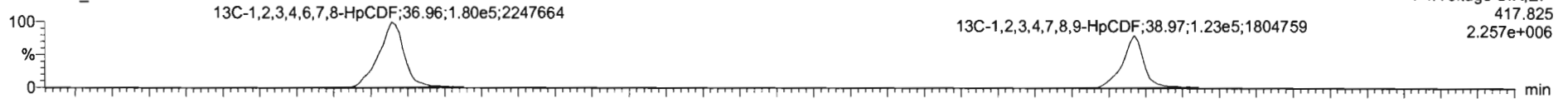


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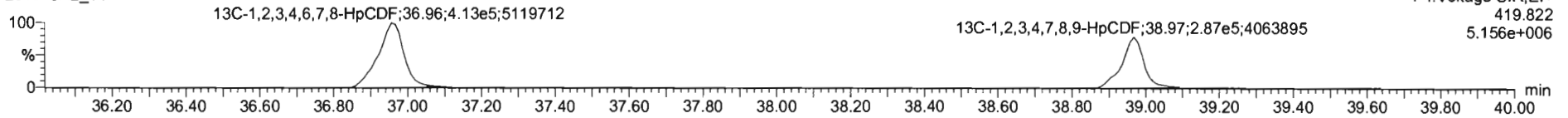


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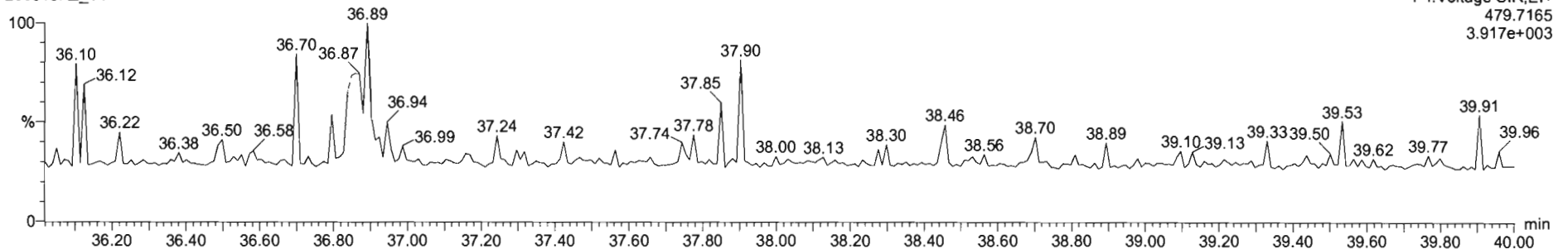


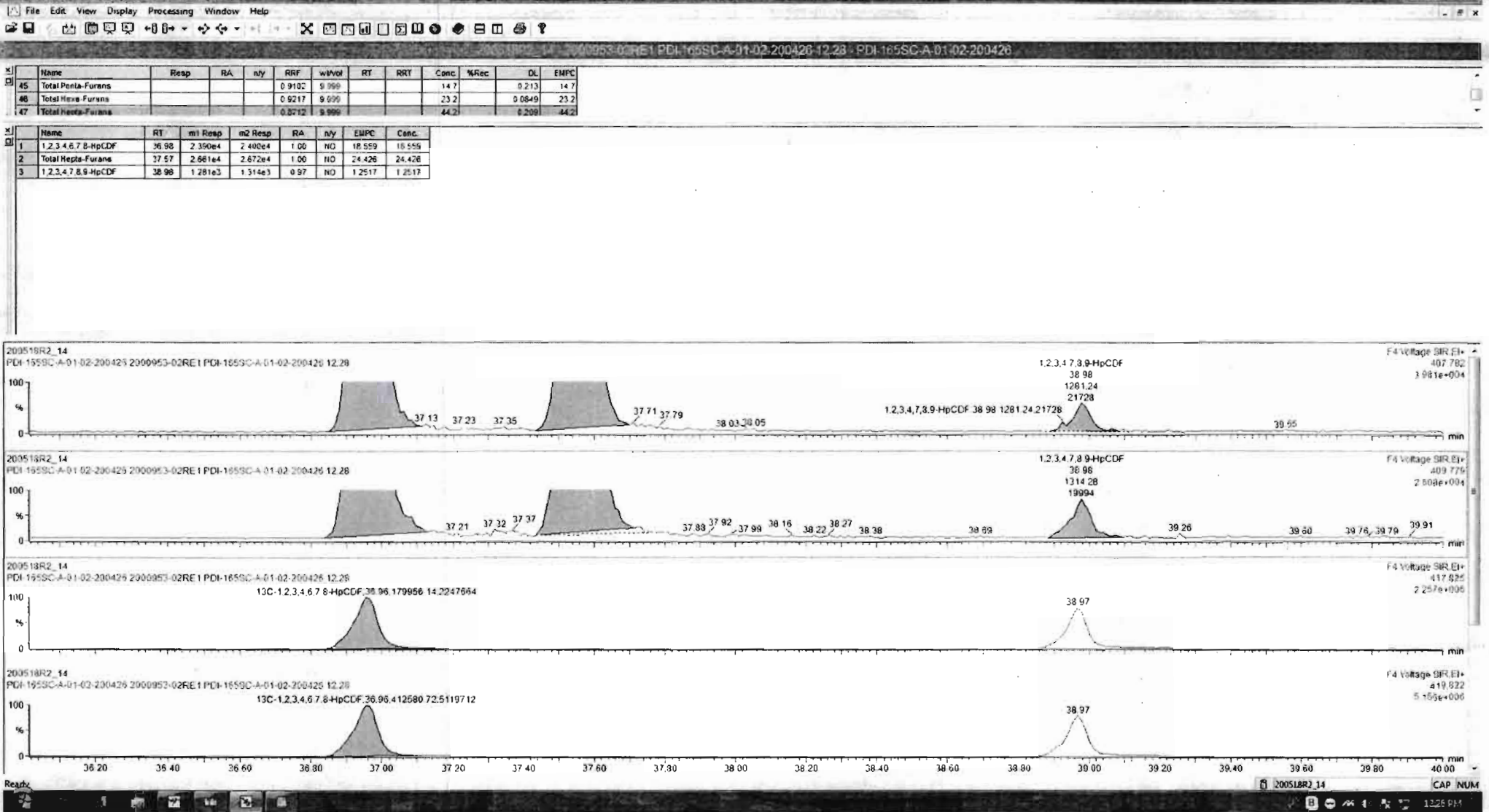
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DPE4

200518R2_14





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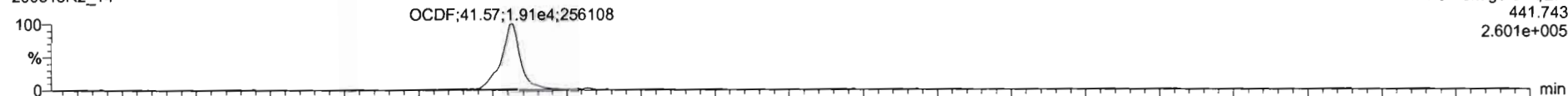
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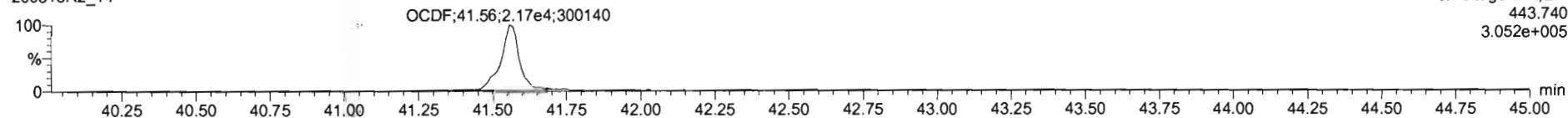
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OCDF

200518R2_14

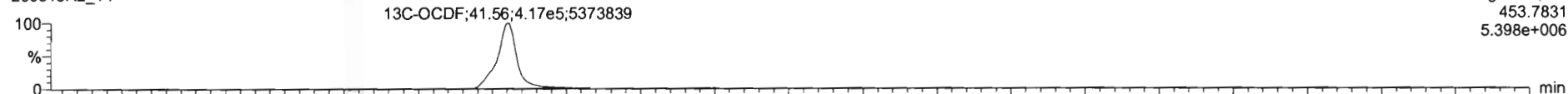


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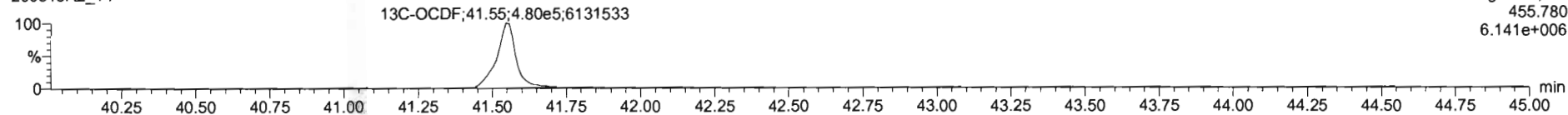


13C-OCDF

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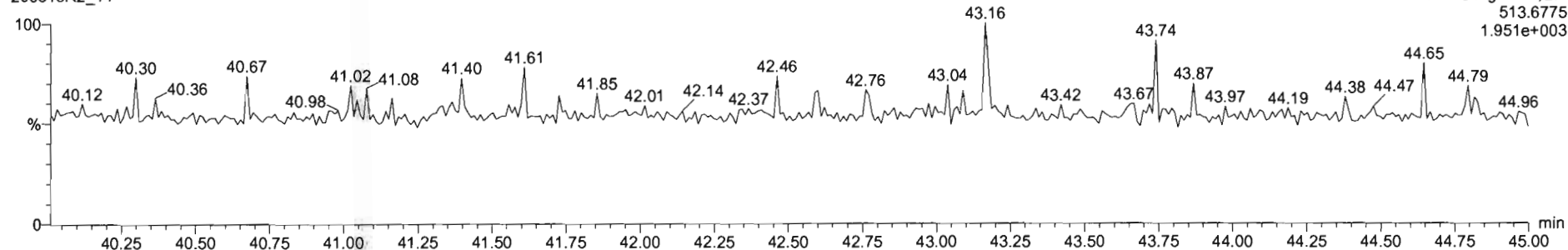


200518R2_14



DPE5

200518R2_14

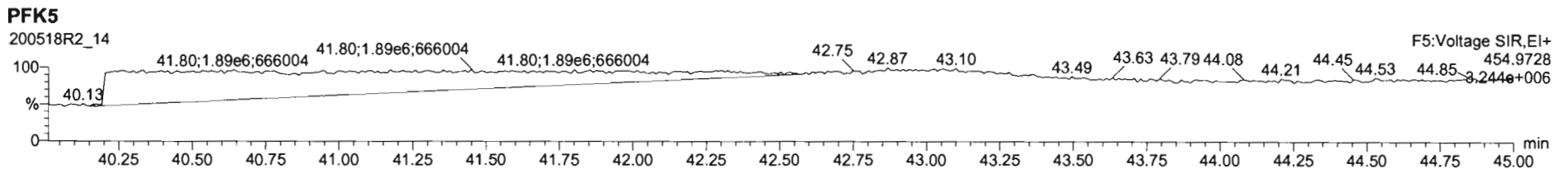
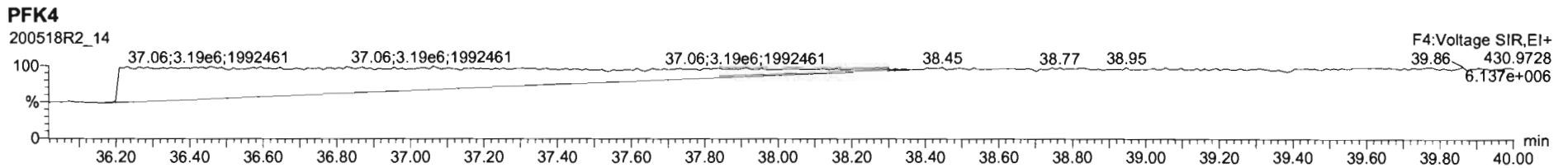
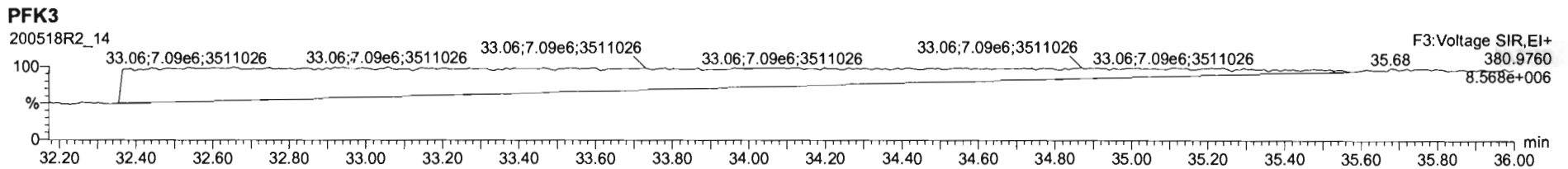
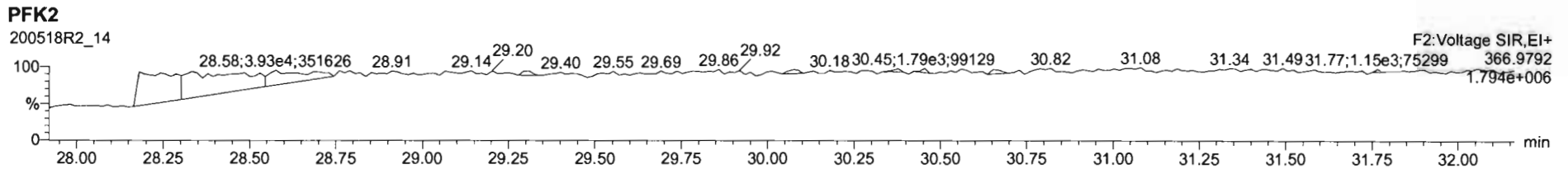
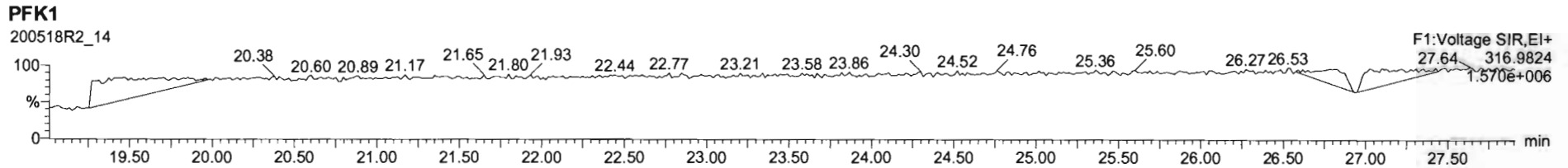


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Name: 200518R2_14, Date: 19-May-2020, Time: 00:03:23, ID: 2000953-02RE1 PDI-165SC-A-01-02-200426 12.28, Description: PDI-165SC-A-01-02-200426



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GPD 05/19/2020

CT 05/22/2020

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1	1 2,3,7,8-TCDD	1.13e3	0.52	YES	0.947	10.055	26.096	26.08	1.001	1.001	0.28762		0.0826	0.209
2	2 1,2,3,7,8-PeCDD	9.55e2	0.55	NO	0.942	10.055	31.147	31.14	1.001	1.000	0.28697		0.111	0.287
3	3 1,2,3,4,7,8-HxCDD	2.80e2	1.27	NO	1.06	10.055	34.516	34.51	1.000	1.000	0.11421		0.120	0.114
4	4 1,2,3,6,7,8-HxCDD	2.90e3	1.18	NO	0.915	10.055	34.612	34.62	1.000	1.000	1.1262		0.129	1.13
5	5 1,2,3,7,8,9-HxCDD	8.76e2	1.35	NO	0.915	10.055	34.899	34.90	1.000	1.000	0.38578		0.140	0.386
6	6 1,2,3,4,6,7,8-HpCDD	2.91e4	1.05	NO	0.898	10.055	38.405	38.41	1.000	1.001	20.817		0.414	20.8
7	7 OCDD	2.02e5	0.87	NO	0.933	10.055	41.375	41.39	1.000	1.000	435.68		1.08	436
8	8 2,3,7,8-TCDF	1.17e3	0.71	NO	0.787	10.055	25.147	25.14	1.001	1.001	0.28086		0.120	0.281
9	9 1,2,3,7,8-PeCDF	7.98e2	1.40	NO	0.910	10.055	29.834	29.81	1.001	1.000	0.17191		0.0955	0.172
10	10 2,3,4,7,8-PeCDF	5.38e3	1.42	NO	0.966	10.055	30.851	30.85	1.001	1.001	1.1747		0.103	1.17
11	11 1,2,3,4,7,8-HxCDF	1.78e3	1.18	NO	0.878	10.055	33.643	33.64	1.000	1.000	0.64314		0.117	0.643
12	12 1,2,3,6,7,8-HxCDF	1.20e3	1.13	NO	0.874	10.055	33.770	33.78	1.000	1.001	0.39740		0.115	0.397
13	13 2,3,4,6,7,8-HxCDF	2.16e3	1.12	NO	0.922	10.055	34.380	34.37	1.001	1.001	0.86701		0.139	0.867
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.055	35.230		1.000				0.182	
15	15 1,2,3,4,6,7,8-HpCDF	2.99e4	1.02	NO	0.871	10.055	37.014	36.99	1.001	1.000	16.449		0.175	16.4
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.055	38.979		1.000				0.201	
17	17 OCDF	8.93e3	0.85	NO	0.802	10.055	41.567	41.58	1.000	1.000	11.245		0.228	11.2
18	18 13C-2,3,7,8-TCDD	8.87e5	0.77	NO	1.16	10.055	26.046	26.07	1.026	1.027	87.238	43.9	0.117	
19	19 13C-1,2,3,7,8-PeCDD	7.03e5	0.62	NO	0.847	10.055	31.141	31.13	1.227	1.227	94.572	47.5	0.135	
20	20 13C-1,2,3,4,7,8-HxCDD	4.58e5	1.28	NO	0.750	10.055	34.517	34.51	1.014	1.014	74.823	37.6	0.250	
21	21 13C-1,2,3,6,7,8-HxCDD	5.61e5	1.27	NO	0.963	10.055	34.629	34.61	1.017	1.017	71.354	35.9	0.194	
22	22 13C-1,2,3,7,8,9-HxCDD	4.94e5	1.25	NO	0.838	10.055	34.898	34.89	1.025	1.025	72.196	36.3	0.223	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.10e5	1.03	NO	0.641	10.055	38.390	38.39	1.128	1.128	59.127	29.7	0.190	
24	24 13C-OCDD	1.97e5	0.88	NO	0.586	10.055	41.386	41.38	1.216	1.216	41.195	10.4	0.162	
25	25 13C-2,3,7,8-TCDF	1.05e6	0.77	NO	1.03	10.055	25.104	25.12	0.989	0.990	82.930	41.7	0.171	
26	26 13C-1,2,3,7,8-PeCDF	1.01e6	1.59	NO	0.845	10.055	29.829	29.81	1.176	1.175	98.169	49.4	0.325	
27	27 13C-2,3,4,7,8-PeCDF	9.43e5	1.58	NO	0.814	10.055	30.822	30.82	1.215	1.215	94.668	47.6	0.338	
28	28 13C-1,2,3,4,7,8-HxCDF	6.28e5	0.51	NO	1.00	10.055	33.656	33.64	0.989	0.988	76.569	38.5	0.220	
29	29 13C-1,2,3,6,7,8-HxCDF	6.88e5	0.50	NO	1.14	10.055	33.778	33.76	0.992	0.992	74.121	37.3	0.195	
30	30 13C-2,3,4,6,7,8-HxCDF	5.37e5	0.50	NO	1.02	10.055	34.347	34.35	1.009	1.009	64.352	32.4	0.216	
31	31 13C-1,2,3,7,8,9-HxCDF	5.10e5	0.53	NO	0.845	10.055	35.239	35.23	1.035	1.035	73.999	37.2	0.262	

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-15.qld

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Name: 200518R2_15, Date: 19-May-2020, Time: 00:49:34, ID: 2000953-03RE1 PDI-165SC-A-02-03-200426 13.98, Description: PDI-165SC-A-02-03-200426

#	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	4.15e5	0.42	NO	0.771	10.055	36.971	36.98	1.086	1.086	65.998	33.2	0.179	
33	13C-1,2,3,4,7,8,9-HpCDF	2.72e5	0.43	NO	0.482	10.055	38.983	38.98	1.145	1.145	68.996	34.7	0.286	
34	13C-OCDF	3.94e5	0.89	NO	0.669	10.055	41.556	41.57	1.221	1.221	72.195	18.1	0.170	
35	37Cl-2,3,7,8-TCDD	2.97e5			1.10	10.055	26.076	26.08	1.028	1.028	30.841	38.8	0.0422	
36	13C-1,2,3,4-TCDD	1.74e6	0.79	NO	1.00	10.055	25.350	25.38	1.000	1.000	198.91	100	0.136	
37	13C-1,2,3,4-TCDF	2.43e6	0.79	NO	1.00	10.055	23.560	23.63	1.000	1.000	198.91	100	0.177	
38	13C-1,2,3,4,6,9-HxCDF	1.62e6	0.51	NO	1.00	10.055	34.000	34.04	1.000	1.000	198.91	100	0.221	
39	Total Tetra-Dioxins				0.947	10.055	24.620		0.000		1.2957		0.0838	1.99
40	Total Penta-Dioxins				0.942	10.055	29.960		0.000		2.6352		0.111	3.20
41	Total Hexa-Dioxins				0.915	10.055	33.635		0.000		8.2601		0.136	8.26
42	Total Hepta-Dioxins				0.898	10.055	37.640		0.000		57.961		0.414	58.0
43	Total Tetra-Furans				0.787	10.055	23.610		0.000		13.383		0.120	13.6
44	1st Func. Penta-Furans				0.910	10.055	27.090		0.000		12.289		0.0306	12.3
45	Total Penta-Furans				0.910	10.055	29.275		0.000		4.9558		0.102	7.75 P
46	Total Hexa-Furans				0.922	10.055	33.555		0.000		20.552		0.130	20.6
47	Total Hepta-Furans				0.871	10.055	37.835		0.000		38.317		0.198	38.3

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-15.qld

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Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
 Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_15, Date: 19-May-2020, Time: 00:49:34, ID: 2000953-03RE1 PDI-165SC-A-02-03-200426 13.98, Description: PDI-165SC-A-02-03-200426

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.95	4.400e3	6.700e3	4.206e2	5.020e2	0.84	NO	9.225e2	0.21837	0.21837	0.0838
2	Total Tetra-Dioxins	22.34	2.601e3	1.969e3	2.196e2	1.879e2	1.17	YES	0.000e0	0.00000	0.078722	0.0838
3	Total Tetra-Dioxins	22.86	2.540e3	2.195e3	1.558e2	2.142e2	0.73	NO	3.701e2	0.087602	0.087602	0.0838
4	Total Tetra-Dioxins	23.80	4.071e3	4.921e3	2.953e2	3.923e2	0.75	NO	6.876e2	0.16277	0.16277	0.0838
5	Total Tetra-Dioxins	24.06	7.346e3	1.077e4	5.905e2	8.087e2	0.73	NO	1.399e3	0.33121	0.33121	0.0838
6	Total Tetra-Dioxins	24.28	7.586e3	9.140e3	6.251e2	7.067e2	0.88	NO	1.332e3	0.31524	0.31524	0.0838
7	Total Tetra-Dioxins	24.48	2.618e3	2.815e3	2.292e2	1.968e2	1.16	YES	0.000e0	0.00000	0.082466	0.0838
8	Total Tetra-Dioxins	24.96	2.932e3	4.376e3	1.752e2	3.090e2	0.57	YES	0.000e0	0.00000	0.095310	0.0838
9	Total Tetra-Dioxins	25.36	2.986e3	3.534e3	2.027e2	2.088e2	0.97	YES	0.000e0	0.00000	0.087468	0.0838
10	Total Tetra-Dioxins	25.81	3.398e3	5.175e3	2.677e2	4.434e2	0.60	YES	0.000e0	0.00000	0.14565	0.0838
11	2,3,7,8-TCDD	26.08	4.603e3	1.003e4	3.848e2	7.458e2	0.52	YES	1.131e3	0.00000	0.20938	0.0838
12	Total Tetra-Dioxins	26.42	4.724e3	5.843e3	3.219e2	4.408e2	0.73	NO	7.627e2	0.18054	0.18054	0.0838

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.87	1.689e4	2.408e4	1.226e3	2.005e3	0.61	NO	3.231e3	0.97053	0.97053	0.111
2	Total Penta-Dioxins	29.37	4.484e3	1.053e4	2.573e2	4.146e2	0.62	NO	6.719e2	0.20184	0.20184	0.111
3	Total Penta-Dioxins	29.87	1.251e4	1.963e4	7.096e2	9.908e2	0.72	NO	1.700e3	0.51084	0.51084	0.111
4	Total Penta-Dioxins	30.04	9.369e3	1.856e4	5.679e2	8.521e2	0.67	NO	1.420e3	0.42658	0.42658	0.111
5	Total Penta-Dioxins	30.15	4.875e3	1.031e4	2.962e2	4.975e2	0.60	NO	7.937e2	0.23844	0.23844	0.111
6	Total Penta-Dioxins	30.35	6.347e3	1.319e4	2.130e2	3.779e2	0.56	NO	0.000e0	0.00000	0.17752	0.111
7	Total Penta-Dioxins	30.38	7.012e3	1.222e4	3.519e2	5.969e2	0.59	NO	0.000e0	0.00000	0.28504	0.111
8	1,2,3,7,8-PeCDD	31.14	8.539e3	1.189e4	3.399e2	6.153e2	0.55	NO	9.552e2	0.28697	0.28697	0.111
9	Total Penta-Dioxins	31.52	3.252e3	5.456e3	1.330e2	2.624e2	0.51	YES	0.000e0	0.00000	0.10339	0.111

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Name: 200518R2_15, Date: 19-May-2020, Time: 00:49:34, ID: 2000953-03RE1 PDI-165SC-A-02-03-200426 13.98, Description: PDI-165SC-A-02-03-200426

Method: GC/MS

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.04	6.806e4	4.867e4	3.364e3	2.700e3	1.25	NO	6.064e3	2.6164	2.6164	0.136
2	Total Hexa-Dioxins	33.59	7.416e3	6.780e3	4.688e2	3.310e2	1.42	NO	7.997e2	0.34506	0.34506	0.136
3	Total Hexa-Dioxins	33.85	6.837e4	5.793e4	4.479e3	4.032e3	1.11	NO	8.511e3	3.6725	3.6725	0.136
4	1,2,3,4,7,8-HxCDD	34.51	3.116e3	2.464e3	1.563e2	1.235e2	1.27	NO	2.798e2	0.11421	0.11421	0.120
5	1,2,3,6,7,8-HxCDD	34.62	2.448e4	2.076e4	1.571e3	1.333e3	1.18	NO	2.904e3	1.1262	1.1262	0.129
6	1,2,3,7,8,9-HxCDD	34.90	7.539e3	7.295e3	5.028e2	3.729e2	1.35	NO	8.757e2	0.38578	0.38578	0.140

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.37	3.276e5	3.095e5	2.664e4	2.527e4	1.05	NO	5.190e4	37.144	37.144	0.414
2	1,2,3,4,6,7,8-HpCDD	38.41	1.876e5	1.780e5	1.487e4	1.421e4	1.05	NO	2.909e4	20.817	20.817	0.414

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Name: 200518R2_15, Date: 19-May-2020, Time: 00:49:34, ID: 2000953-03RE1 PDI-165SC-A-02-03-200426 13.98, Description: PDI-165SC-A-02-03-200426

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.41	1.882e4	2.706e4	1.600e3	2.274e3	0.70	NO	3.874e3	0.93303	0.93303	0.120
2	Total Tetra-Furans	20.99	7.541e4	1.067e5	6.436e3	9.035e3	0.71	NO	1.547e4	3.7256	3.7256	0.120
3	Total Tetra-Furans	21.42	1.189e4	1.353e4	1.017e3	1.376e3	0.74	NO	2.393e3	0.57633	0.57633	0.120
4	Total Tetra-Furans	21.56	5.608e3	5.823e3	4.124e2	5.128e2	0.80	NO	9.252e2	0.22280	0.22280	0.120
5	Total Tetra-Furans	21.93	2.035e4	2.554e4	1.983e3	2.866e3	0.69	NO	4.849e3	1.1677	1.1677	0.120
6	Total Tetra-Furans	22.41	2.631e4	3.134e4	2.454e3	3.136e3	0.78	NO	5.590e3	1.3462	1.3462	0.120
7	Total Tetra-Furans	22.58	2.848e3	3.047e3	2.185e2	2.970e2	0.74	NO	5.155e2	0.12414	0.12414	0.120
8	Total Tetra-Furans	22.77	5.033e3	5.872e3	3.866e2	5.353e2	0.72	NO	9.219e2	0.22201	0.22201	0.120
9	Total Tetra-Furans	23.36	9.865e3	9.802e3	7.767e2	9.453e2	0.82	NO	1.722e3	0.41470	0.41470	0.120
10	Total Tetra-Furans	23.52	2.682e4	4.560e4	2.542e3	3.726e3	0.68	NO	6.268e3	1.5096	1.5096	0.120
11	Total Tetra-Furans	23.65	5.021e3	5.765e3	2.941e2	3.715e2	0.79	NO	6.656e2	0.16028	0.16028	0.120
12	Total Tetra-Furans	24.16	8.811e3	1.795e4	8.934e2	1.236e3	0.72	NO	2.130e3	0.51292	0.51292	0.120
13	Total Tetra-Furans	24.48	3.960e3	4.960e3	2.239e2	3.268e2	0.69	NO	5.507e2	0.13262	0.13262	0.120
14	Total Tetra-Furans	24.67	4.502e3	5.079e3	3.959e2	4.350e2	0.91	YES	0.000e0	0.00000	0.18542	0.120
15	Total Tetra-Furans	24.91	3.438e3	5.710e3	2.453e2	3.468e2	0.71	NO	5.921e2	0.14260	0.14260	0.120
16	Total Tetra-Furans	25.03	8.918e3	1.123e4	6.173e2	8.423e2	0.73	NO	1.460e3	0.35151	0.35151	0.120
17	2,3,7,8-TCDF	25.14	6.439e3	8.569e3	4.825e2	6.837e2	0.71	NO	1.166e3	0.28086	0.28086	0.120
18	Total Tetra-Furans	25.53	7.567e3	8.366e3	5.059e2	5.890e2	0.86	NO	1.095e3	0.26369	0.26369	0.120
19	Total Tetra-Furans	26.78	1.243e4	1.632e4	7.297e2	9.107e2	0.80	NO	1.640e3	0.39505	0.39505	0.120
20	Total Tetra-Furans	26.93	1.006e4	1.146e4	5.477e2	8.192e2	0.67	NO	1.367e3	0.32918	0.32918	0.120
21	Total Tetra-Furans	27.22	1.844e4	1.870e4	1.068e3	1.308e3	0.82	NO	2.376e3	0.57210	0.57210	0.120

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.22	5.050e5	3.164e5	3.409e4	2.095e4	1.63	NO	5.504e4	12.289	12.289	0.0306

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.70	1.953e4	9.538e3	1.184e3	6.698e2	1.77	NO	1.854e3	0.41389	0.41389	0.102
2	Total Penta-Furans	28.84	9.403e4	6.600e4	7.154e3	4.536e3	1.58	NO	0.000e0	0.00000	2.6103	0.102
3	Total Penta-Furans	28.88	1.587e4	1.304e4	6.433e2	4.861e2	1.32	NO	1.129e3	0.25219	0.25219	0.102
4	Total Penta-Furans	29.42	8.399e4	6.215e4	5.221e3	3.512e3	1.49	NO	8.733e3	1.9499	1.9499	0.102
5	Total Penta-Furans	29.64	8.216e3	4.523e3	3.263e2	2.265e2	1.44	NO	5.527e2	0.12342	0.12342	0.102
6	1,2,3,7,8-PeCDF	29.81	8.575e3	6.987e3	4.662e2	3.321e2	1.40	NO	7.983e2	0.17191	0.17191	0.0955
7	Total Penta-Furans	30.10	2.359e4	1.669e4	1.381e3	9.141e2	1.51	NO	2.295e3	0.51240	0.51240	0.102
8	Total Penta-Furans	30.16	1.237e4	9.600e3	4.992e2	3.815e2	1.31	YES	0.000e0	0.00000	0.18336	0.102
9	Total Penta-Furans	30.73	6.337e3	4.266e3	3.269e2	2.209e2	1.48	NO	5.478e2	0.12231	0.12231	0.102
10	2,3,4,7,8-PeCDF	30.85	5.013e4	3.515e4	3.160e3	2.220e3	1.42	NO	5.380e3	1.1747	1.1747	0.103
11	Total Penta-Furans	30.88	2.799e4	2.094e4	6.294e2	4.230e2	1.49	NO	1.052e3	0.23499	0.23499	0.102

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.48	7.452e4	5.590e4	3.892e3	3.111e3	1.25	NO	7.004e3	2.5587	2.5587	0.130
2	Total Hexa-Furans	32.64	1.842e5	1.470e5	9.952e3	8.358e3	1.19	NO	1.831e4	6.6894	6.6894	0.130
3	Total Hexa-Furans	33.19	2.639e5	2.096e5	1.394e4	1.178e4	1.18	NO	2.572e4	9.3964	9.3964	0.130
4	1,2,3,4,7,8-HxCDF	33.64	1.569e4	1.386e4	9.635e2	8.197e2	1.18	NO	1.783e3	0.64314	0.64314	0.117
5	1,2,3,6,7,8-HxCDF	33.78	1.063e4	9.825e3	6.380e2	5.627e2	1.13	NO	1.201e3	0.39740	0.39740	0.115
6	2,3,4,6,7,8-HxCDF	34.37	1.920e4	1.923e4	1.140e3	1.017e3	1.12	NO	2.157e3	0.86701	0.86701	0.139

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.99	1.803e5	1.788e5	1.510e4	1.483e4	1.02	NO	2.993e4	16.449	16.449	0.175
2	Total Hepta-Furans	37.58	1.901e5	1.887e5	1.600e4	1.690e4	0.95	NO	3.290e4	21.868	21.868	0.198

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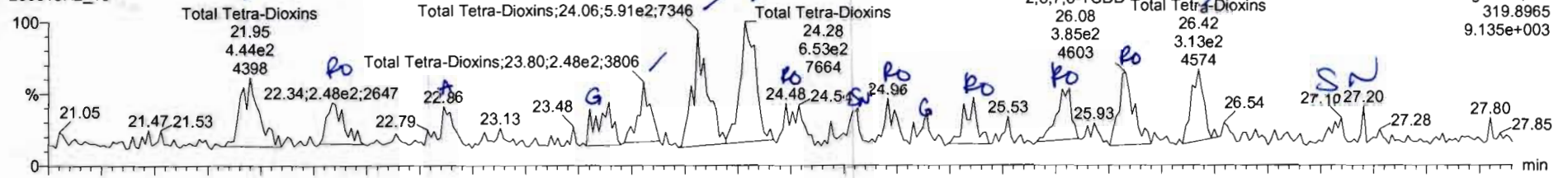
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Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

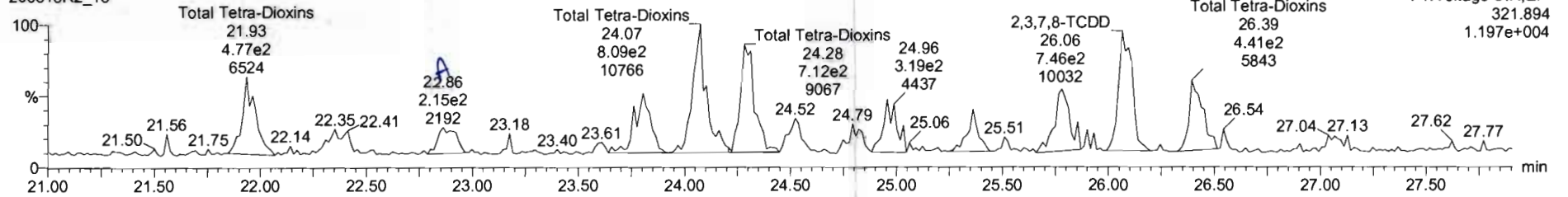
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2,3,7,8-TCDD

200518R2_15

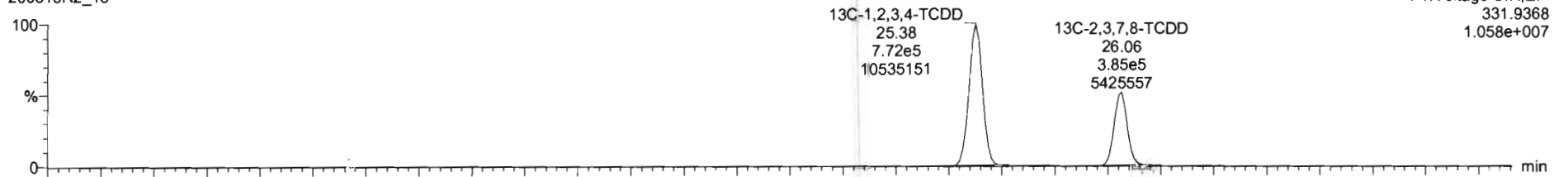


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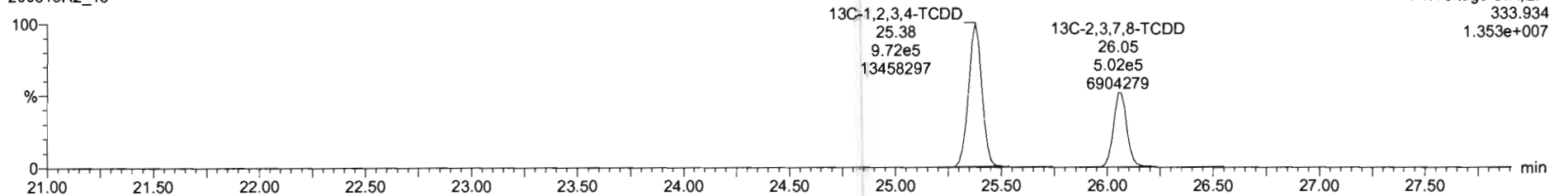


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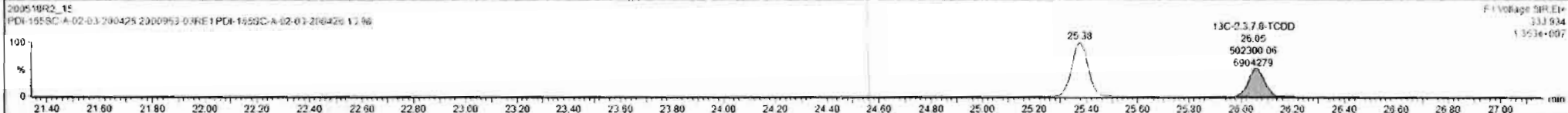
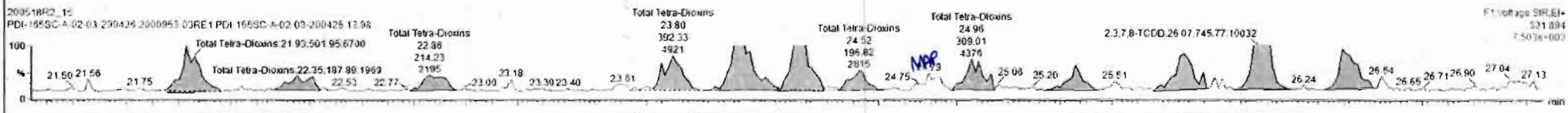
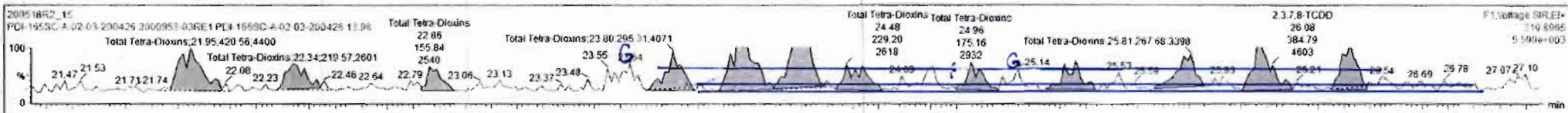


200518R2_15



Name	Resp	RA	rvy	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.055			1.30		0.0838	1.99
40 Total Penta-Dioxins				0.9425	10.055			1.72		0.111	3.02
41 Total Hexa-Dioxins				0.9145	10.055			7.44		0.136	7.41

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc
1 Total Tetra-Dioxins	21.95	4.20E2	5.020E2	0.84	NO	0.21627	0.21837
2 Total Tetra-Dioxins	22.34	2.196E2	1.879E2	1.17	YES	0.078722	0.00000
3 Total Tetra-Dioxins	22.86	1.558E2	2.142E2	0.72	NO	0.097502	0.087602
4 Total Tetra-Dioxins	23.80	2.953E2	3.923E2	0.75	NO	0.16277	0.16277
5 Total Tetra-Dioxins	24.06	5.906E2	8.087E2	0.73	NO	0.33121	0.23121
6 Total Tetra-Dioxins	24.28	6.251E2	7.067E2	0.68	NO	0.31524	0.31524
7 Total Tetra-Dioxins	24.46	2.292E2	1.968E2	1.16	YES	0.082466	0.00000
8 Total Tetra-Dioxins	24.96	1.752E2	3.090E2	0.57	YES	0.005310	0.00000
9 Total Tetra-Dioxins	25.36	2.027E2	2.088E2	0.87	YES	0.087468	0.00000
10 Total Tetra-Dioxins	25.81	2.677E2	4.434E2	0.60	YES	0.14565	0.00000
11 2,3,7,8-TCDD	26.08	3.648E2	7.458E2	0.52	YES	0.20936	0.00000
12 Total Tetra-Dioxins	26.42	3.219E2	4.408E2	0.73	NO	0.18054	0.18054



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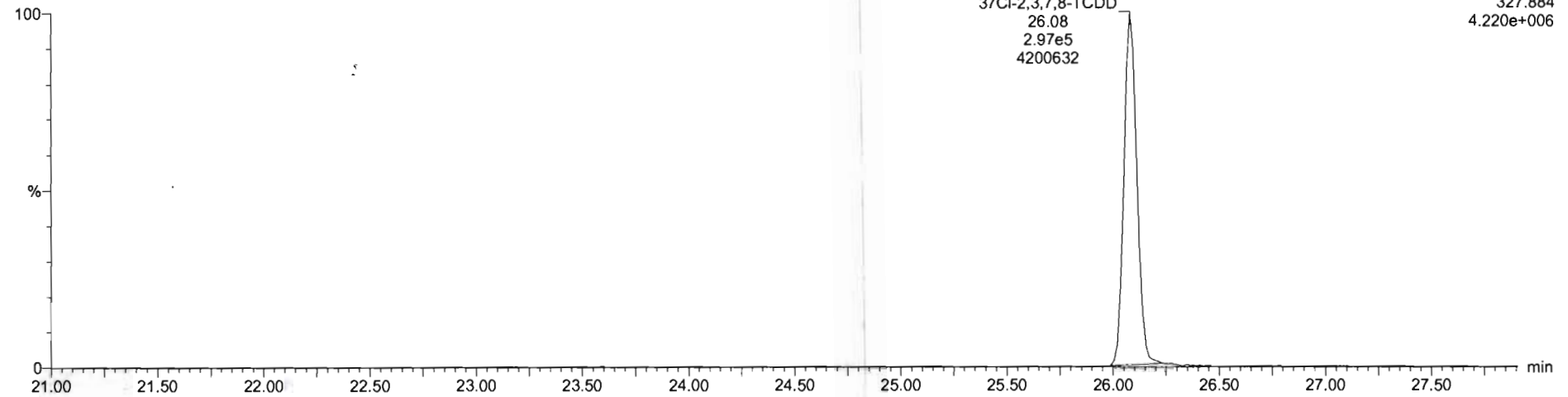
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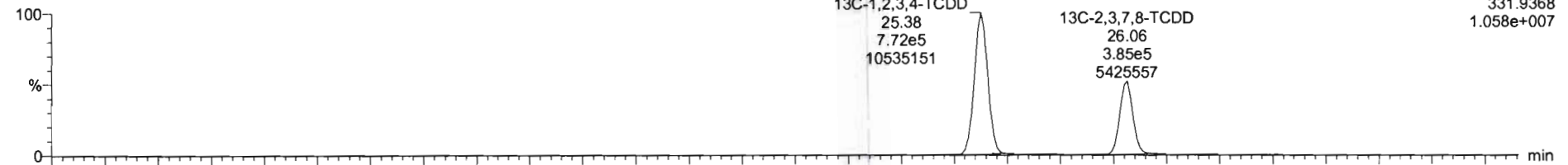
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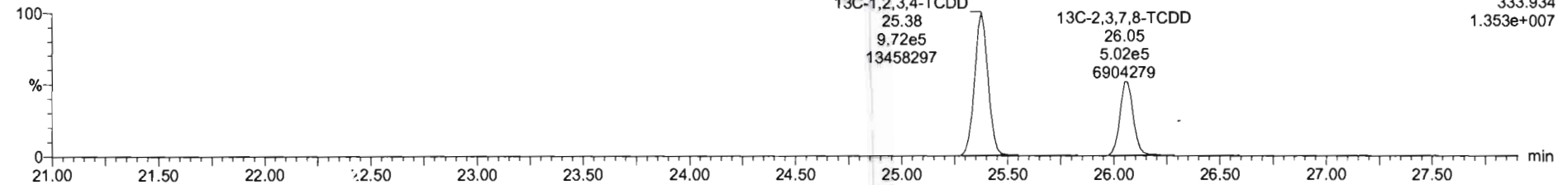


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200518R2_15



200518R2_15



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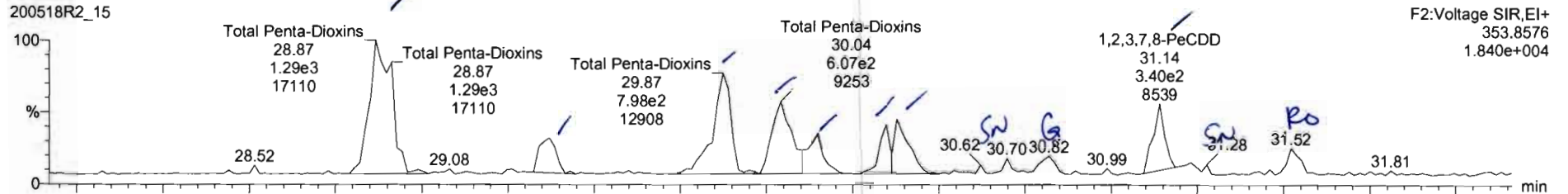
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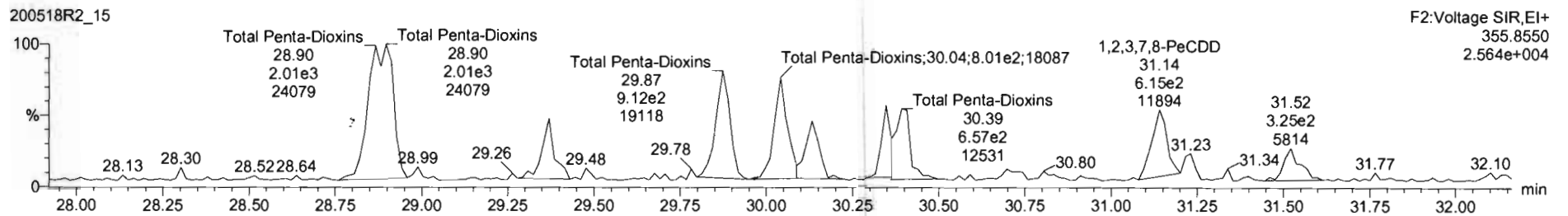
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1,2,3,7,8-PeCDD

200518R2_15

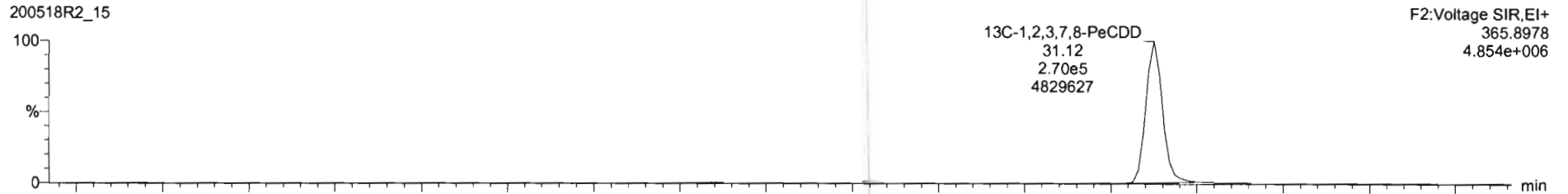


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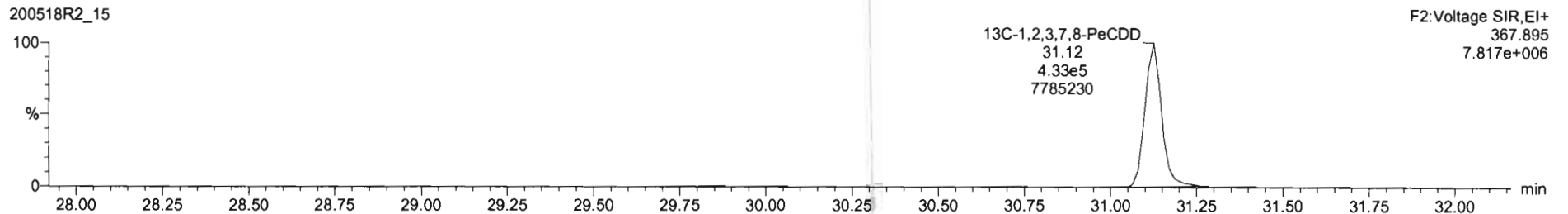


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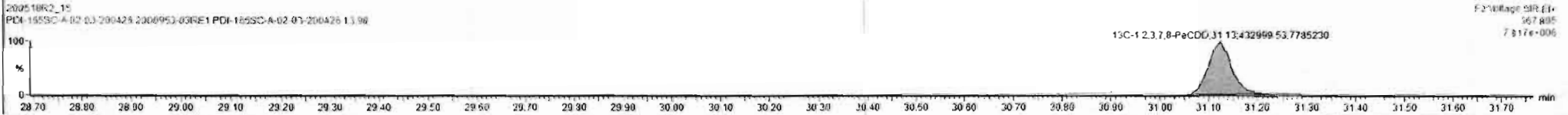
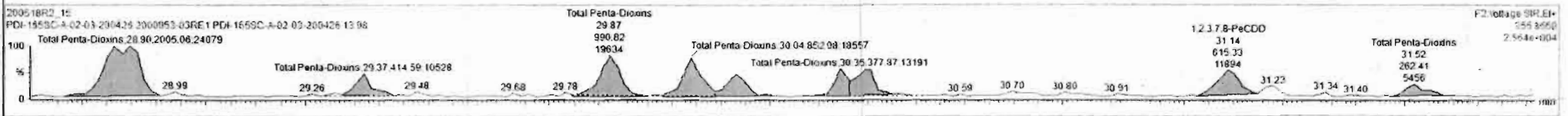
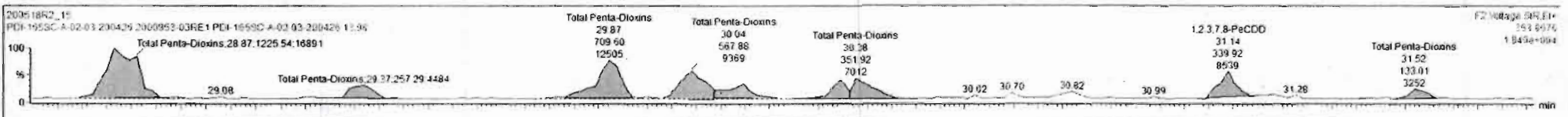


200518R2_15



#	Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9475	10.955			1.30		0.0630	1.99
40	Total Penta-Dioxins				0.9425	10.055			2.64		0.111	3.20
41	Total Hexa-Dioxins				0.9145	10.055			7.54		0.136	7.51

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Penta-Dioxins	28.87	1.22E3	2.005E3	0.61	NO	0.970E3	0.97053
2	Total Penta-Dioxins	29.37	2.573E2	4.148E2	0.62	NO	0.201E4	0.20184
3	Total Penta-Dioxins	29.87	7.056E2	5.909E2	0.72	NO	0.510E4	0.51084
4	Total Penta-Dioxins	30.04	5.679E2	8.521E2	0.67	NO	0.420E6	0.42653
5	Total Penta-Dioxins	30.15	2.962E2	4.975E2	0.60	NO	0.238E4	0.23844
6	Total Penta-Dioxins	30.35	2.130E2	3.779E2	0.56	NO	0.177E2	0.00000
7	Total Penta-Dioxins	30.36	3.515E2	5.969E2	0.59	NO	0.285E4	0.00000
8	1,2,3,7,8-PeCDD	31.14	3.399E2	6.153E2	0.55	NO	0.289E7	0.28997
9	Total Penta-Dioxins	31.52	1.330E2	2.624E2	0.51	YES	0.102E5	0.00000



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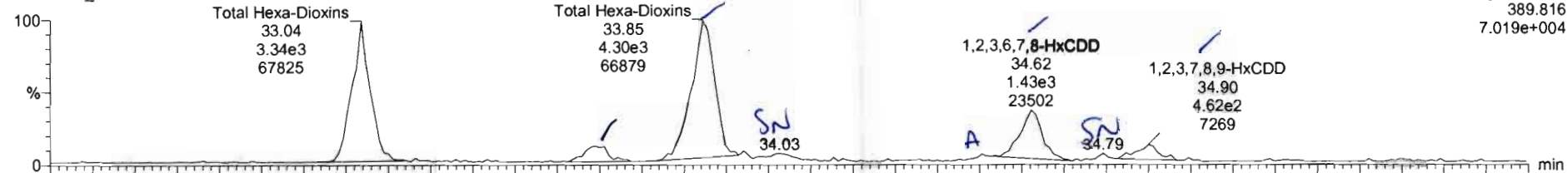
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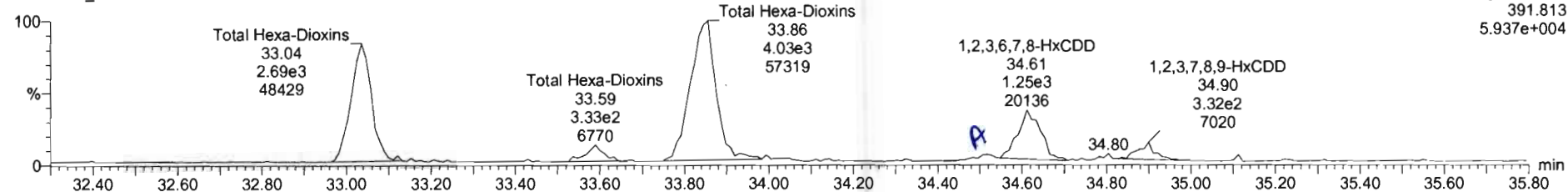
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1,2,3,4,7,8-HxCDD

200518R2_15

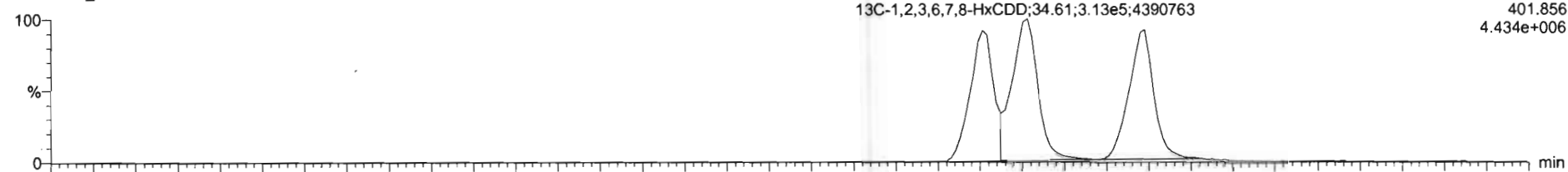


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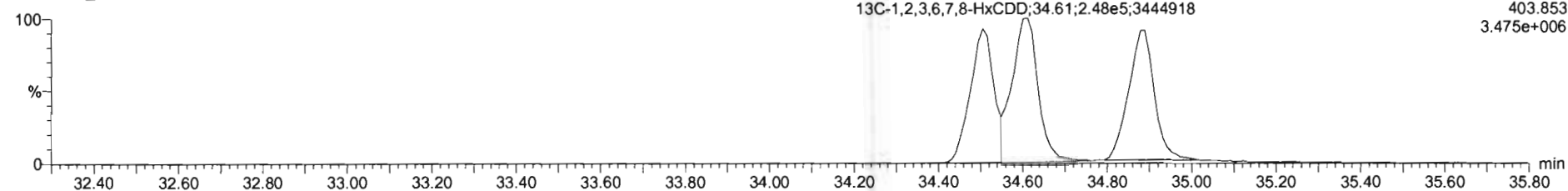


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200518R2_15

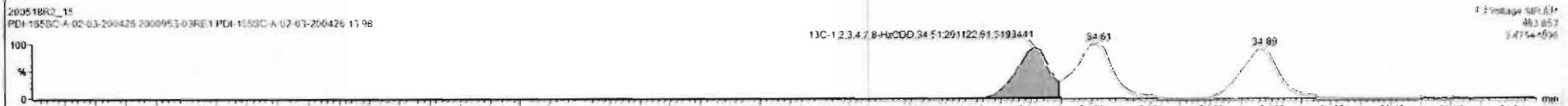
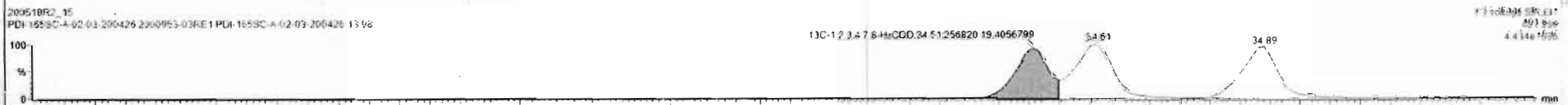
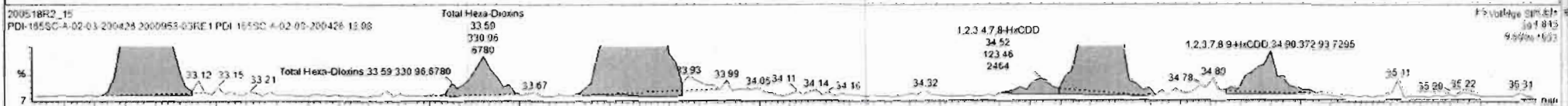
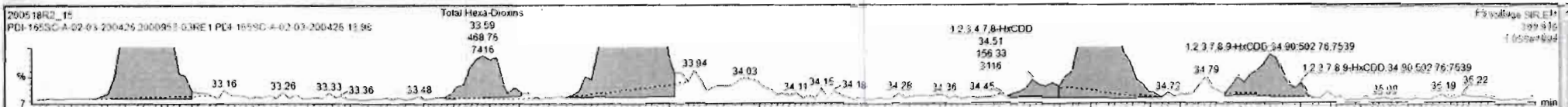


200518R2_15



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.055			1.30		0.0838	1.99
40 Total Penta-Dioxins				0.6425	10.055			2.64		0.1111	2.20
41 Total Hexa-Dioxins				0.9145	10.055			4.91		0.1361	3.20

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	33.04	3.364e3	2.700e3	1.25	NO	2.6164	2.6164
2 Total Hexa-Dioxins	33.59	4.886e2	3.310e2	1.42	NO	0.34506	0.34506
3 Total Hexa-Dioxins	33.85	4.475e3	4.032e3	1.11	NO	3.6725	2.6725
4 1,2,3,4,7,8-HxCDD	34.51	1.563e2	1.235e2	1.27	NO	0.11421	0.11421
5 1,2,3,6,7,8-HxCDD	34.62	1.571e2	1.333e3	1.18	NO	1.1262	1.1262
6 1,2,3,7,8,9-HxCDD	34.90	5.026e2	3.729e2	1.35	NO	0.30678	0.30678



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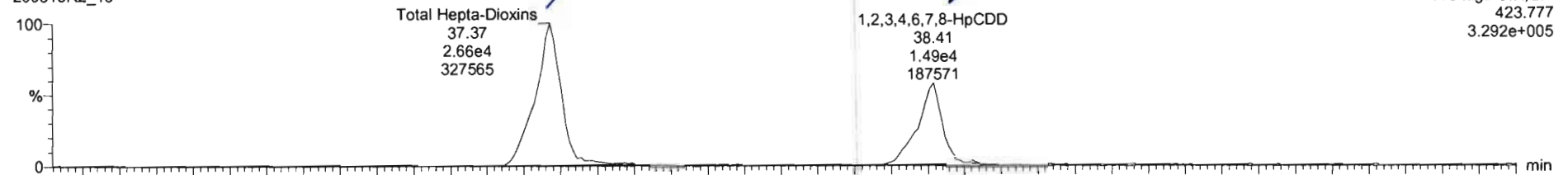
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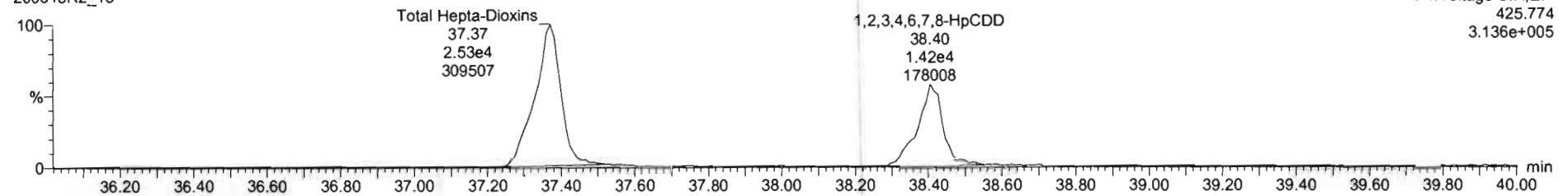
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1,2,3,4,6,7,8-HpCDD

200518R2_15

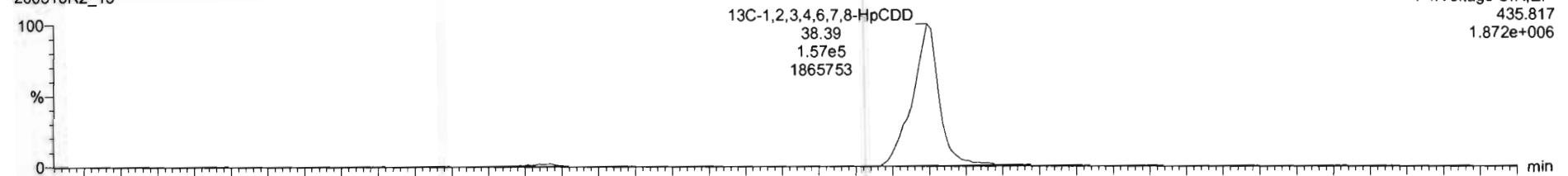


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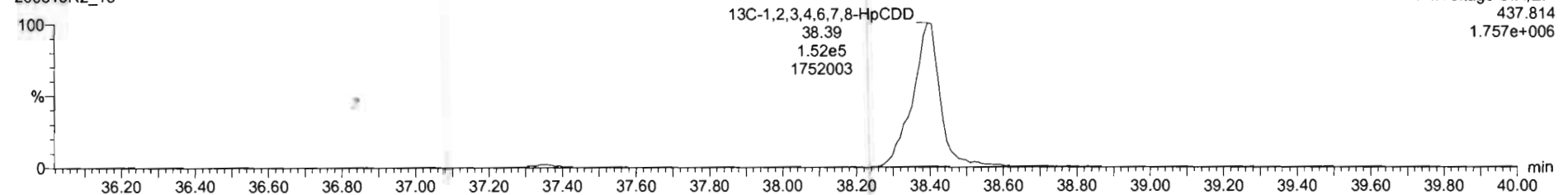


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200518R2_15



200518R2_15

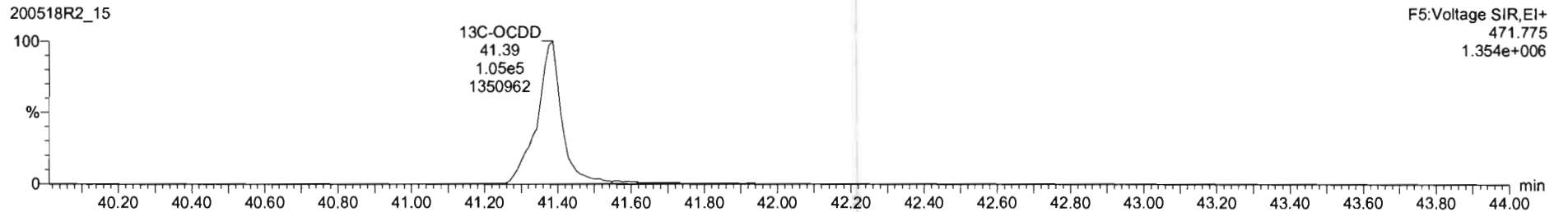
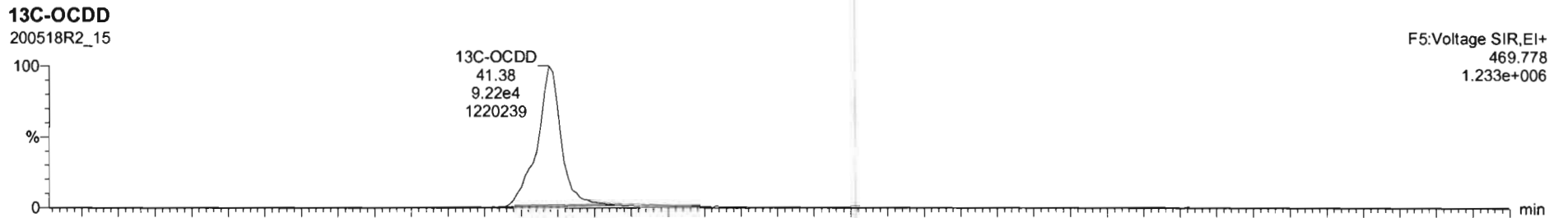
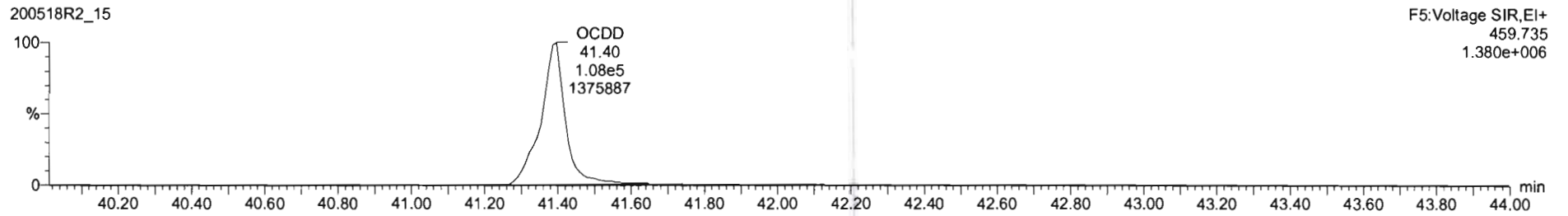
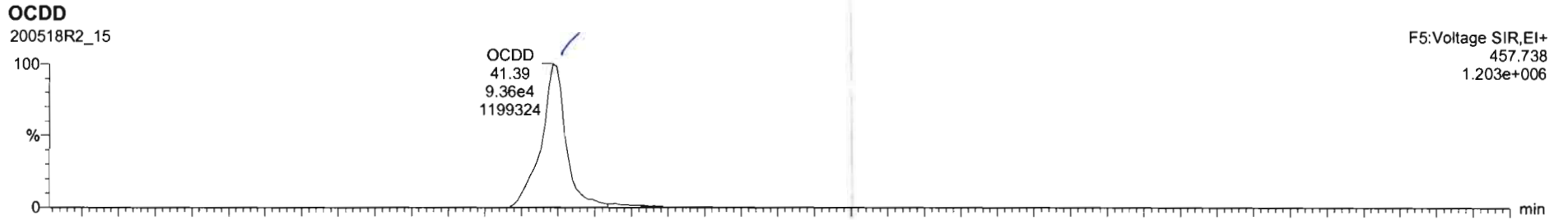


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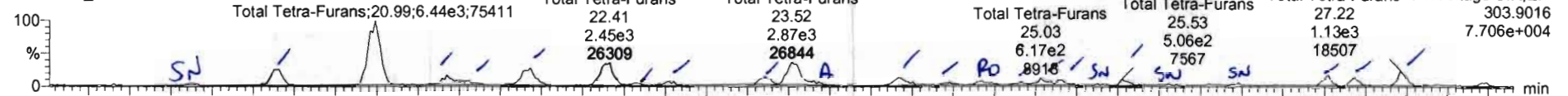
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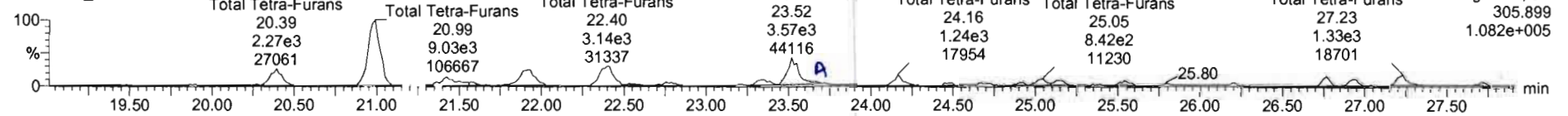
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2,3,7,8-TCDF

200518R2_15

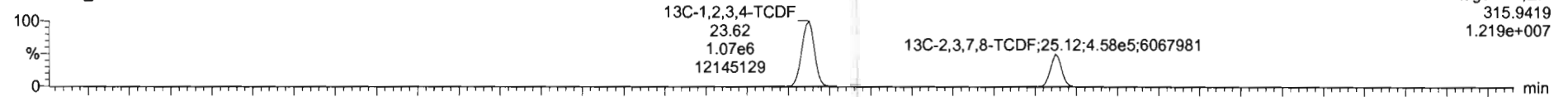


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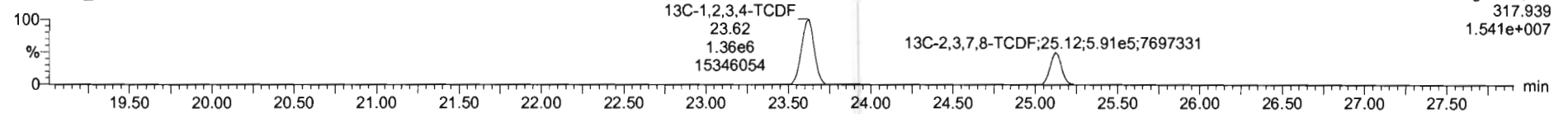


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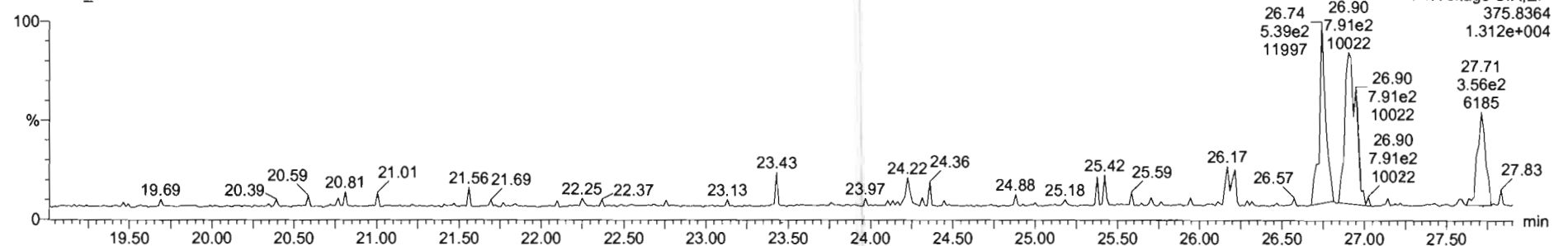


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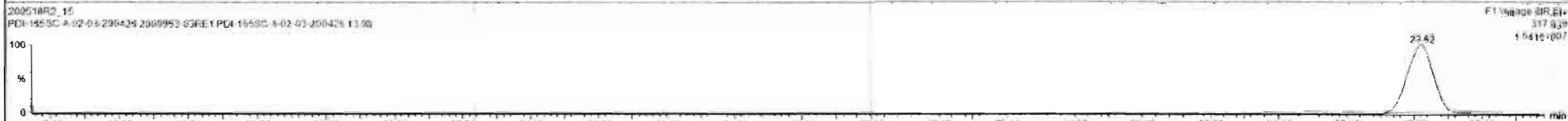
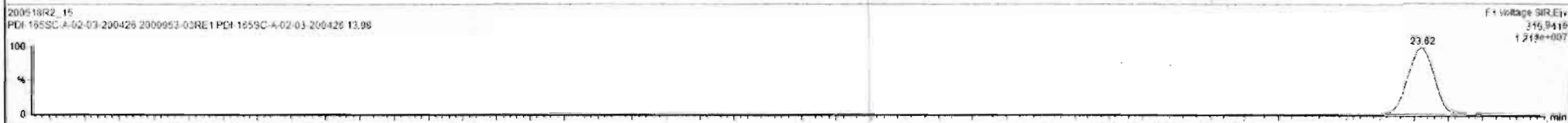
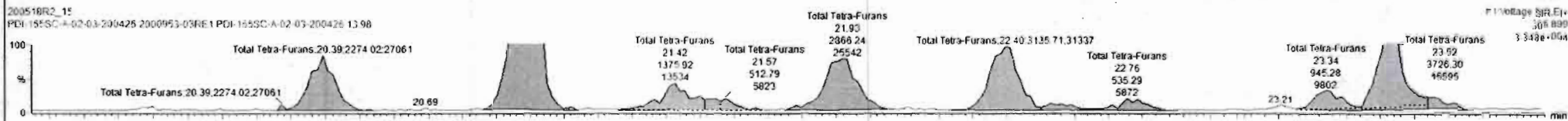
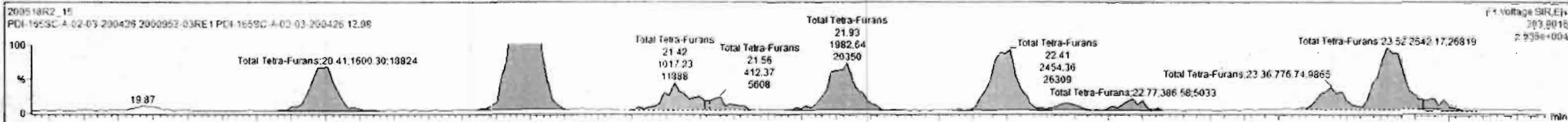
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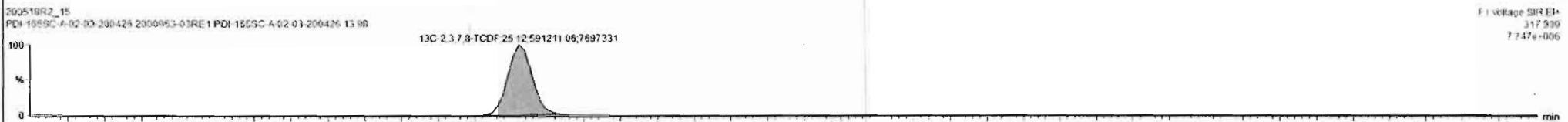
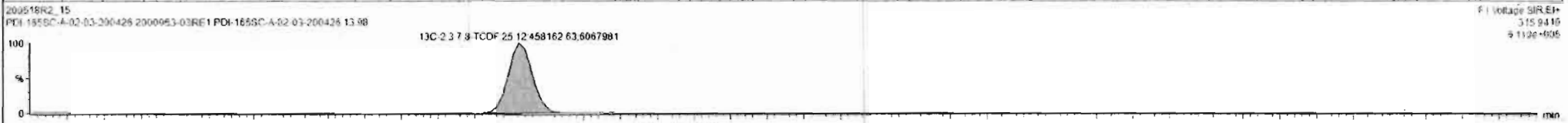
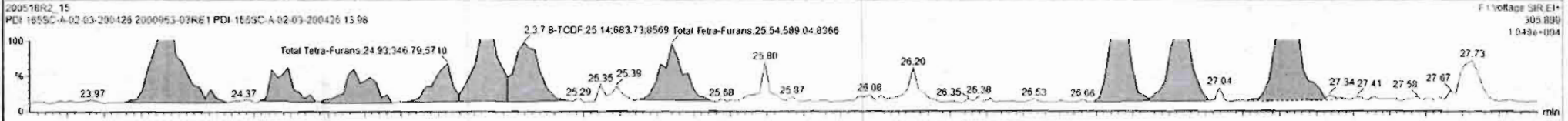
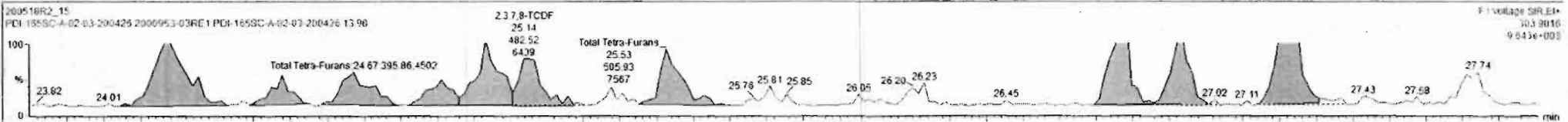
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Furans				0.8975	10.055			58.0		0.414	56.0
43 Total Tetra-Furans				0.7871	10.953			13.0		0.120	13.6
44 Total Furan, Penta-Furans				0.9152	10.054			17.1		0.0006	17.1

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.41	1.600e3	2.274e3	0.70	NO	0.93303	0.93303
2 Total Tetra-Furans	20.99	6.436e3	9.035e3	0.71	NO	3.7256	3.7256
3 Total Tetra-Furans	21.42	1.017e3	1.376e3	0.74	NO	0.57633	0.57633
4 Total Tetra-Furans	21.56	4.124e2	5.128e2	0.80	NO	0.22280	0.22280
5 Total Tetra-Furans	21.93	1.983e3	2.866e3	0.69	NO	1.1677	1.1677
6 Total Tetra-Furans	22.41	2.454e3	3.136e3	0.78	NO	1.3462	1.3462
7 Total Tetra-Furans	22.56	2.105e2	2.970e2	0.74	NO	0.12414	0.12414
8 Total Tetra-Furans	22.77	3.666e2	5.353e2	0.72	NO	0.22201	0.22201
9 Total Tetra-Furans	23.36	7.767e2	9.453e2	0.82	NO	0.41470	0.00000
10 Total Tetra-Furans	23.52	2.542e3	3.726e3	0.68	NO	1.5096	1.5096
11 Total Tetra-Furans	23.65	2.941e2	3.715e2	0.79	NO	0.16026	0.00000



Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxans				0.8976	10.055			58.0		0.414	56.0
43 Total Tetra-Furans				0.7871	10.055			13.4		0.120	12.6
44 1st Funr. Penta-Furans				0.9102	10.055			17.31		0.0766	17.31

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
12 Total Tetra-Furans	24.16	6.934e2	1.236e3	0.72	NO	0.51292	0.51292
13 Total Tetra-Furans	24.48	2.239e2	3.288e2	0.69	NO	0.13262	0.13262
14 Total Tetra-Furans	24.67	3.959e2	4.350e2	0.91	YES	0.18542	0.00000
15 Total Tetra-Furans	24.91	2.453e2	3.468e2	0.71	NO	0.14260	0.14260
16 Total Tetra-Furans	25.03	6.175e2	8.423e2	0.73	NO	0.35151	0.25151
17 2,3,7,8-TCDF	25.14	4.825e2	6.837e2	0.71	NO	0.26006	0.28086
18 Total Tetra-Furans	25.53	5.059e2	5.890e2	0.88	NO	0.29039	0.28369
19 Total Tetra-Furans	26.78	7.297e2	9.107e2	0.80	NO	0.39505	0.39505
20 Total Tetra-Furans	26.93	5.477e2	8.192e2	0.67	NO	0.32918	0.32918
21 Total Tetra-Furans	27.22	1.068e3	1.309e3	0.82	NO	0.57210	0.57210



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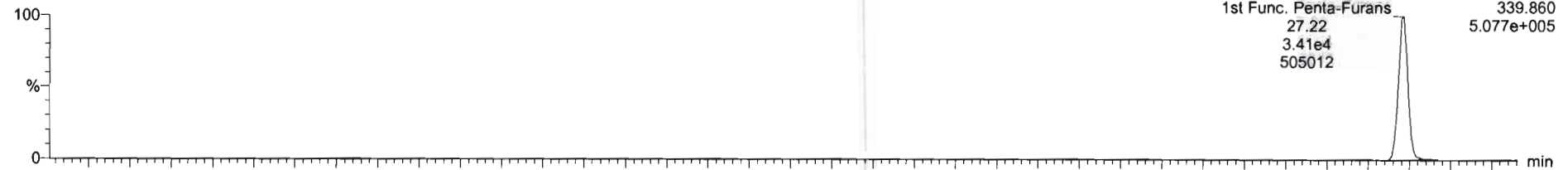
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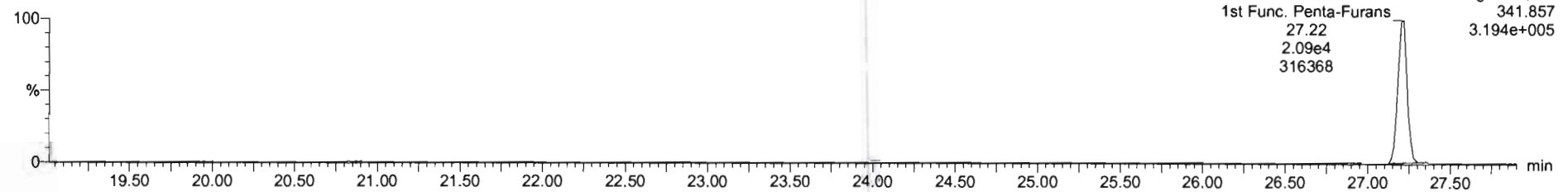
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1st Func. Penta-Furans

200518R2_15

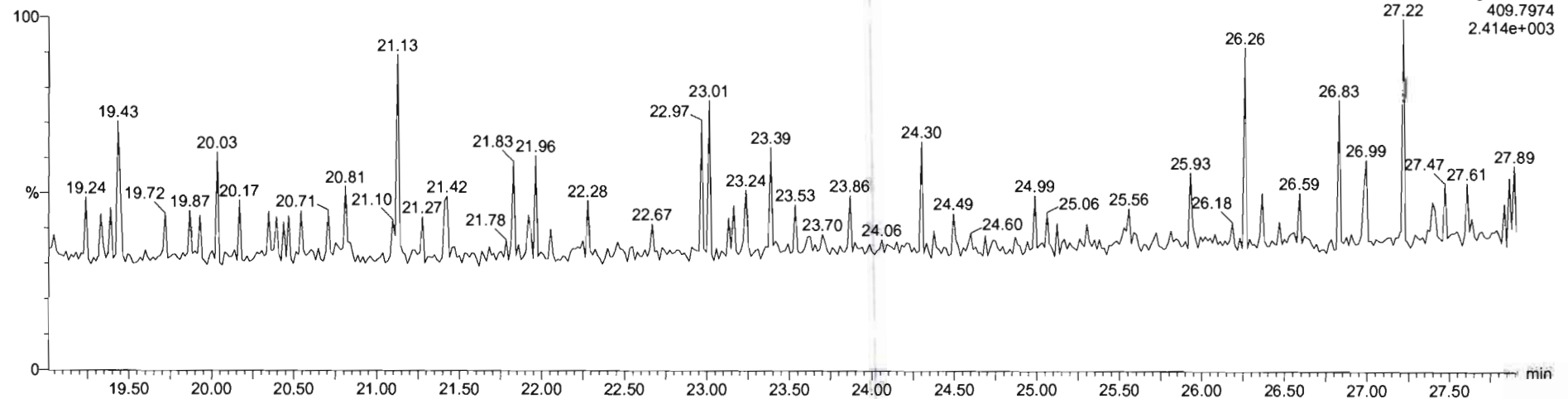


200518R2_15



DPE6

200518R2_15



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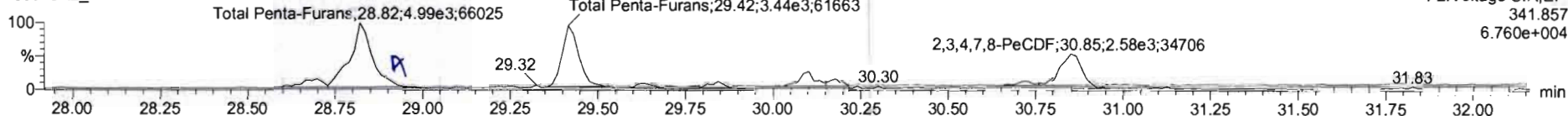
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1,2,3,7,8-PeCDF

200518R2_15

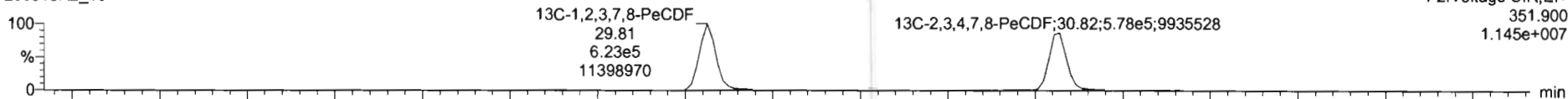


200518R2_15

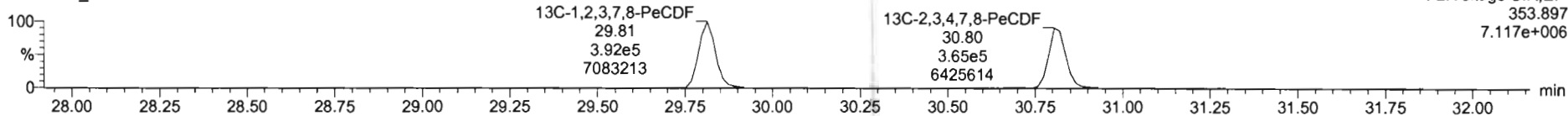


13C-1,2,3,7,8-PeCDF

200518R2_15

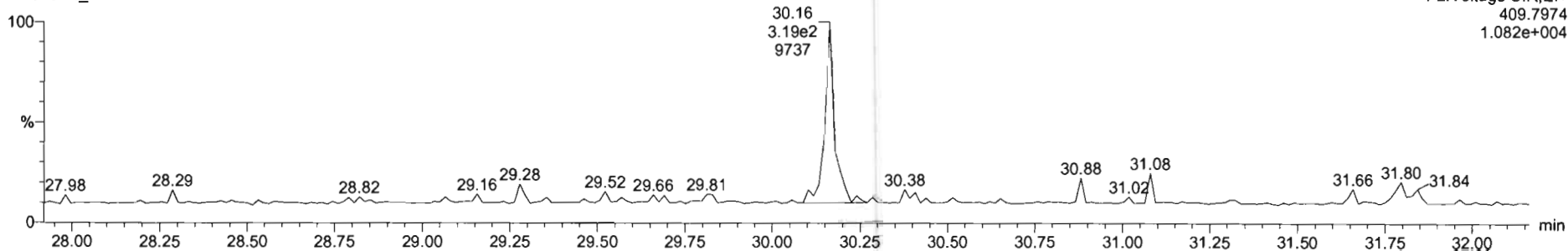


200518R2_15



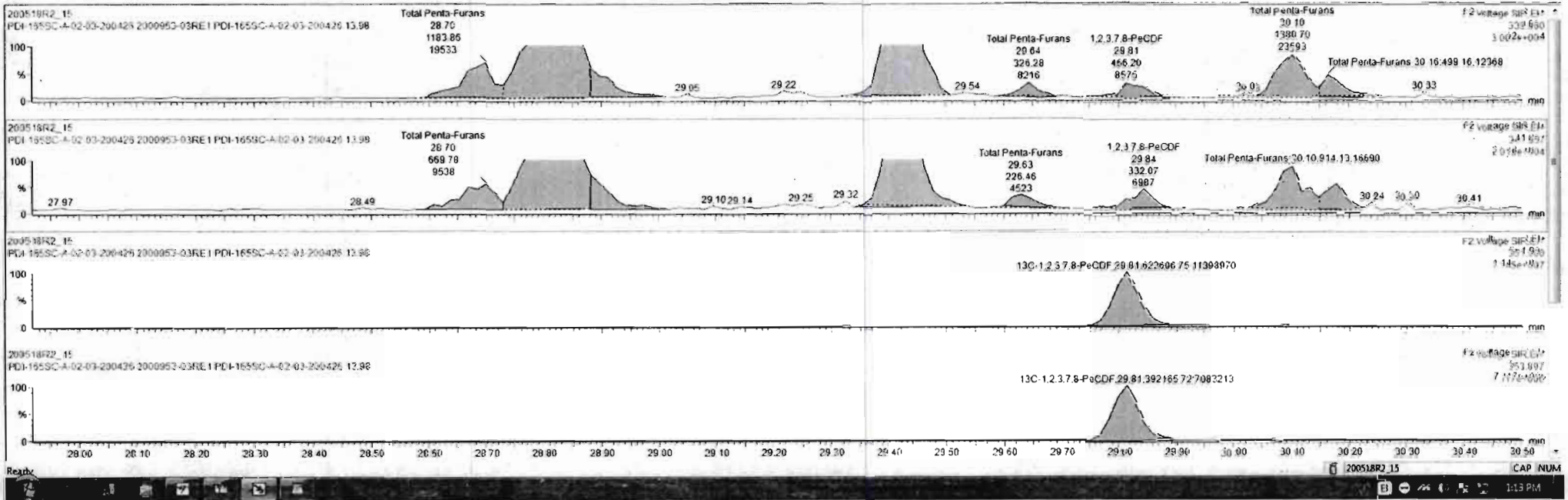
DPE2

200518R2_15



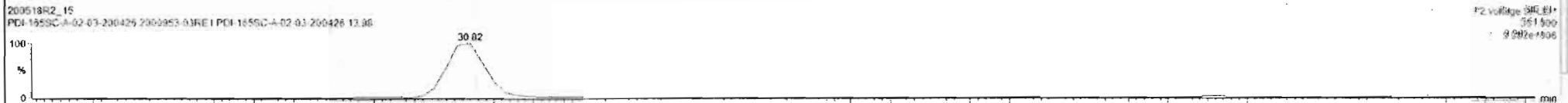
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	ElmC
45 Total Penta-Furans				0.9102	10.055			4.92		0.102	7.72
46 Total Hexa-Furans				0.9217	10.055			20.8		0.130	20.8
47 Total Hexa-Furans				0.8717	10.055			16.1		0.160	16.1

Name	RI	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.70	1.164e3	6.698e2	1.77	NO	0.41389	0.41389
2 Total Penta-Furans	28.84	7.154e3	4.536e3	1.58	NO	2.6103	0.00000
3 Total Penta-Furans	28.88	6.433e2	4.861e2	1.32	NO	0.25219	0.25219
4 Total Penta-Furans	29.42	5.221e3	3.512e3	1.49	NO	1.9499	1.9499
5 Total Penta-Furans	29.64	3.263e2	2.265e2	1.44	NO	0.12342	0.12342
6 1,2,3,7,8-PeCDF	29.81	4.662e2	3.321e2	1.40	NO	0.17191	0.17191
7 Total Penta-Furans	30.10	1.381e3	9.141e2	1.51	NO	0.51240	0.51240
8 Total Penta-Furans	30.16	4.592e2	3.815e2	1.31	YES	0.16336	0.00000
9 Total Penta-Furans	30.73	3.269e2	2.209e2	1.48	NO	0.12231	0.12231
10 2,3,4,7,8-PeCDF	30.85	3.734e3	2.580e3	1.45	NO	1.3786	1.3786



Name	Resp	RA	n/y	RRF	wsvol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9182	10.055			4.98		0.102	7.75
46 Total Hexa-Furans				0.9217	10.055			20.8		0.130	20.8
47 Total Hepta-Furans				0.8717	10.055			36.3		0.180	32.3

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	30.70	1.104e3	6.698e2	1.77	NO	0.41389	0.41389
2 Total Penta-Furans	28.84	7.154e3	4.536e3	1.58	NO	2.6103	0.00000
3 Total Penta-Furans	28.98	8.433e2	4.861e2	1.32	NO	0.25219	0.25219
4 Total Penta-Furans	29.42	5.221e3	3.512e3	1.49	NO	1.9499	1.9499
5 Total Penta-Furans	29.64	3.263e2	2.265e2	1.44	NO	0.12342	0.12342
6 1,2,3,7,8-PeCDF	29.81	4.662e2	3.321e2	1.40	NO	0.17191	0.17191
7 Total Penta-Furans	30.10	1.381e3	9.141e2	1.51	NO	0.51240	0.51240
8 Total Penta-Furans	30.16	4.592e2	3.815e2	1.31	YES	0.18326	0.00000
9 Total Penta-Furans	30.73	3.269e2	2.209e2	1.48	NO	0.12231	0.12231
10 2,3,4,7,8-PeCDF	30.85	2.180e3	2.220e3	1.42	NO	1.1747	1.1747
11 Total Penta-Furans	30.88	6.294e2	4.230e2	1.49	NO	0.23499	0.23499



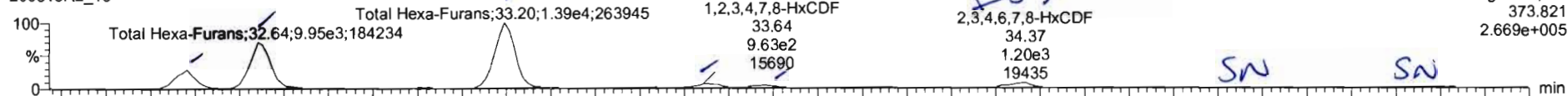
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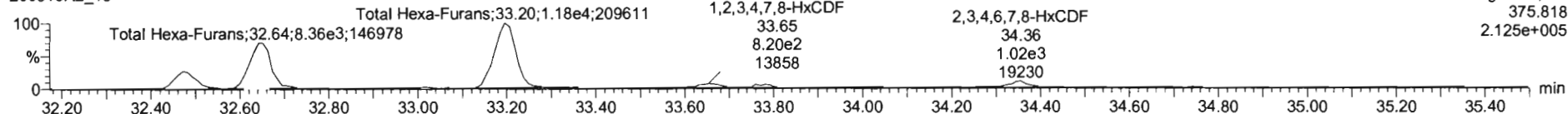
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1,2,3,4,7,8-HxCDF

200518R2_15

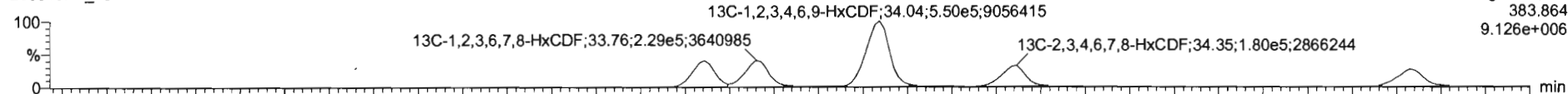


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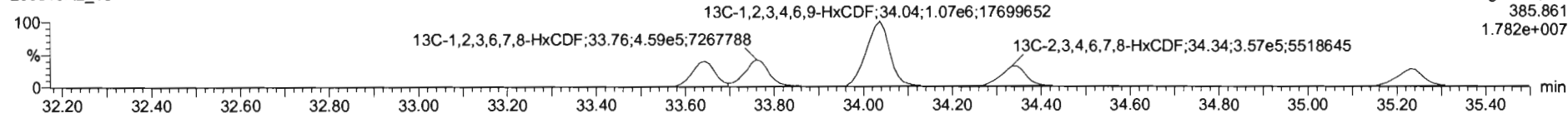


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200518R2_15

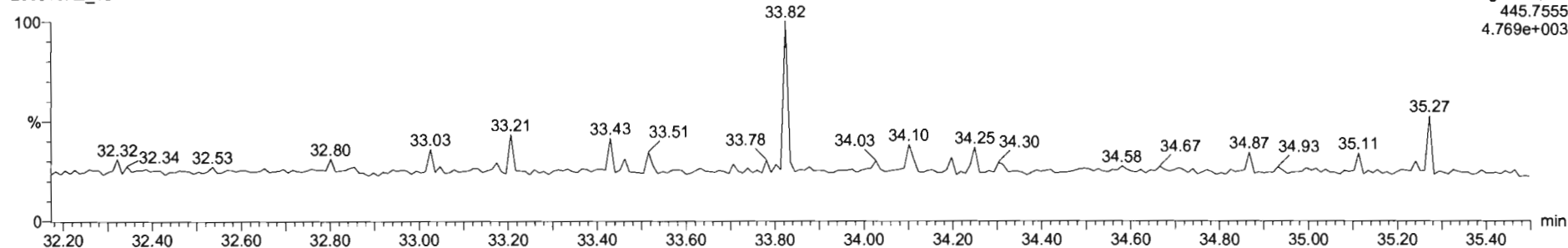


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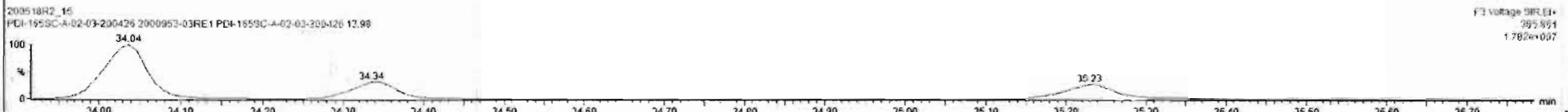
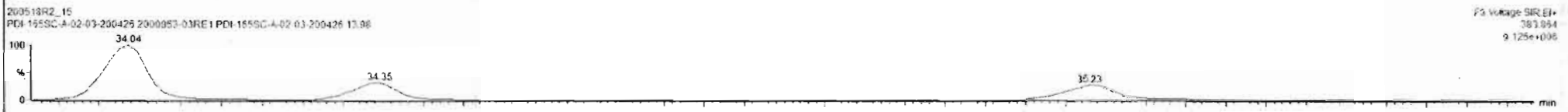
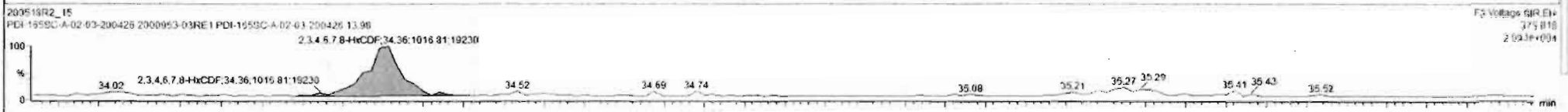
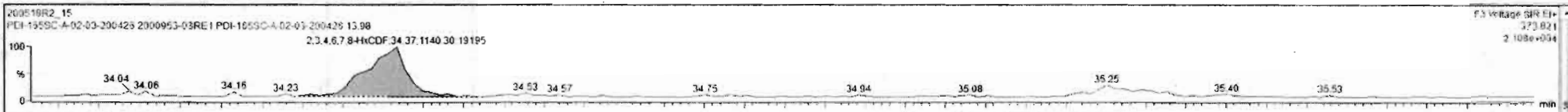
DPE3

200518R2_15



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.055			4.96		0.102	7.75
46 Total Hexa-Furans				0.9217	10.055			25.6		0.130	20.6
47 Total Hepta-Furans				0.8212	10.055			18.1		0.190	14.1

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.48	3.892e2	3.111e3	1.25	NO	2.5587	2.5587
2 Total Hexa-Furans	32.64	9.952e3	8.258e3	1.15	NO	6.6884	6.6884
3 Total Hexa-Furans	33.19	1.354e4	1.170e4	1.18	NO	9.3964	9.3964
4 1,2,3,4,7,8-HxCDF	33.64	9.635e2	8.197e2	1.18	NO	0.64314	0.64314
5 1,2,3,6,7,8-HxCDF	33.78	6.380e2	5.627e2	1.13	NO	0.39740	0.39740
6 2,3,4,6,7,8-HxCDF	34.37	1.140e3	1.017e3	1.12	NO	0.86701	0.86701



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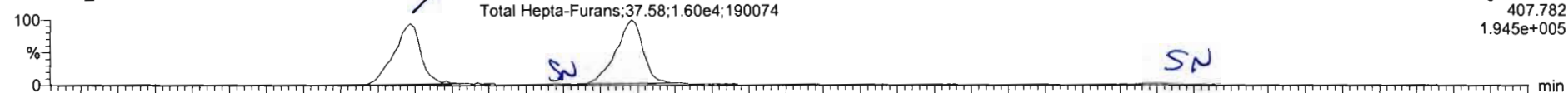
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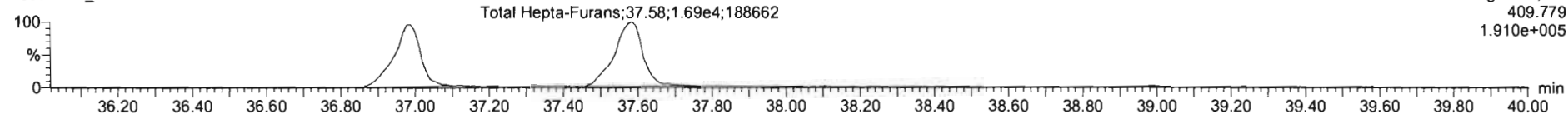
Name: 200518R2_15, Date: 19-May-2020, Time: 00:49:34, ID: 2000953-03RE1 PDI-165SC-A-02-03-200426 13.98, Description: PDI-165SC-A-02-03-200426

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

200518R2_15

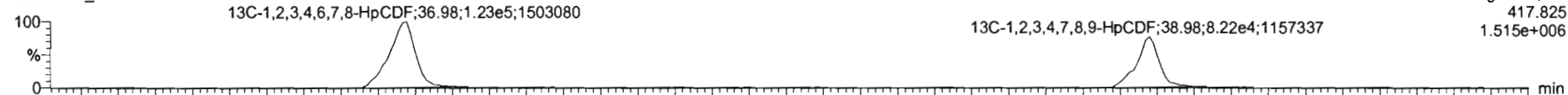


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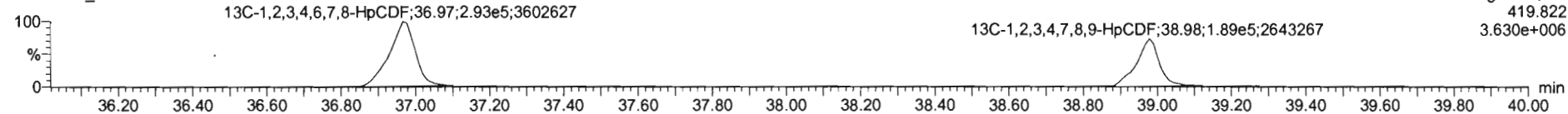


13C-1,2,3,4,6,7,8-HpCDF

200518R2_15

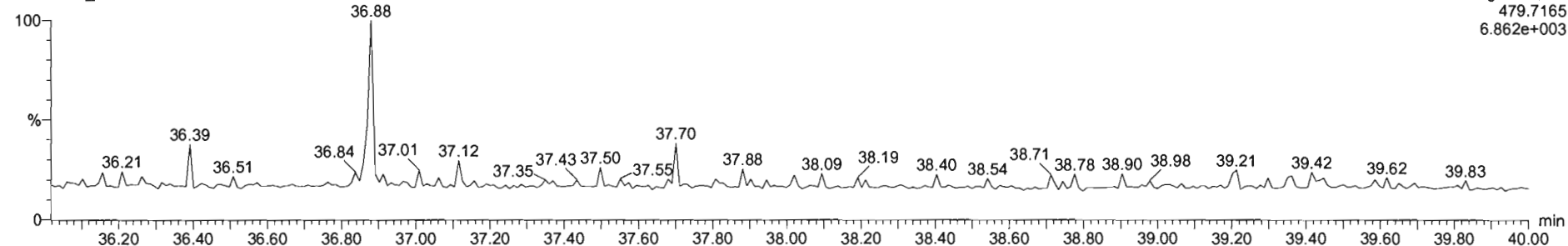


200518R2_15



DPE4

200518R2_15



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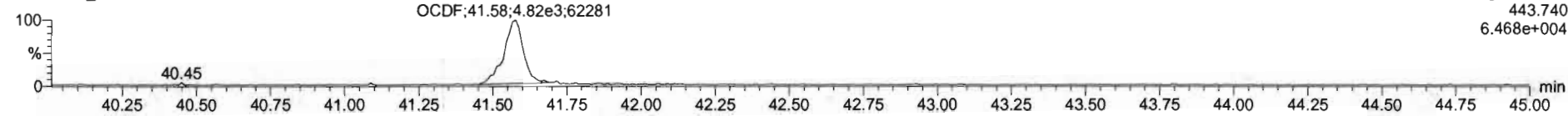
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OCDF

200518R2_15

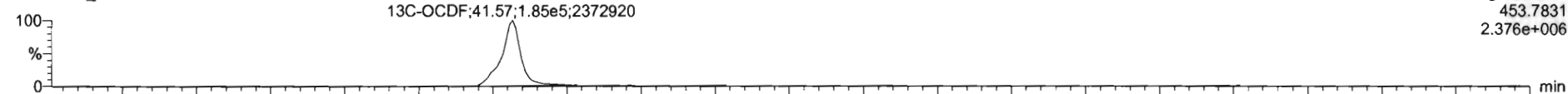


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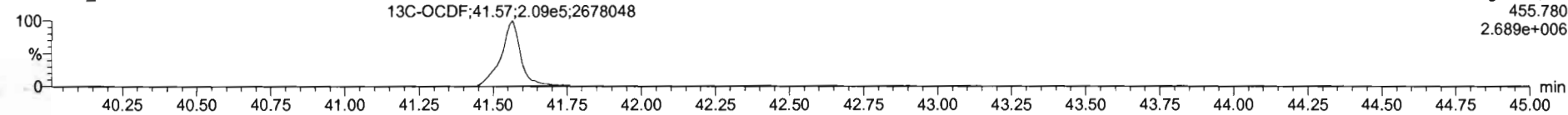


13C-OCDF

200518R2_15

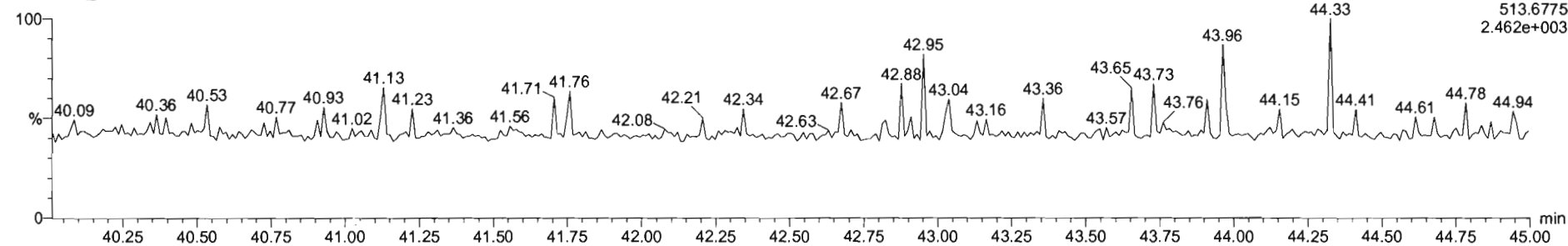


200518R2_15



DPE5

200518R2_15

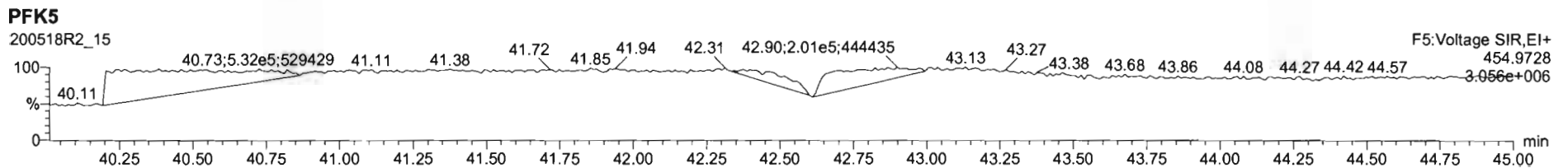
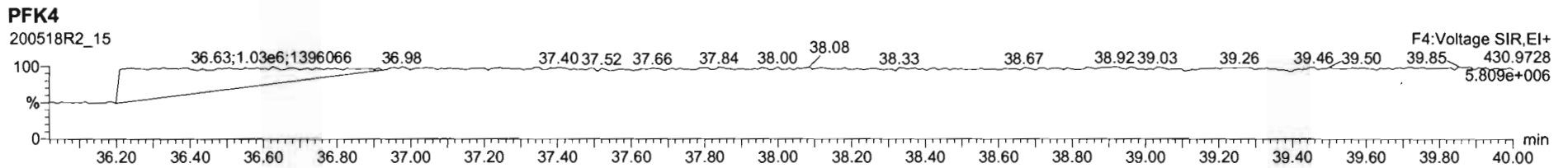
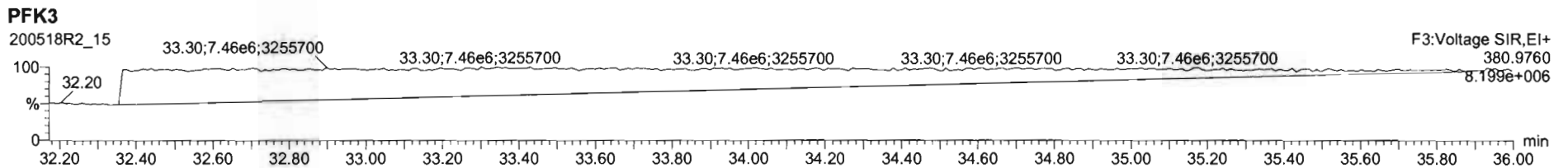
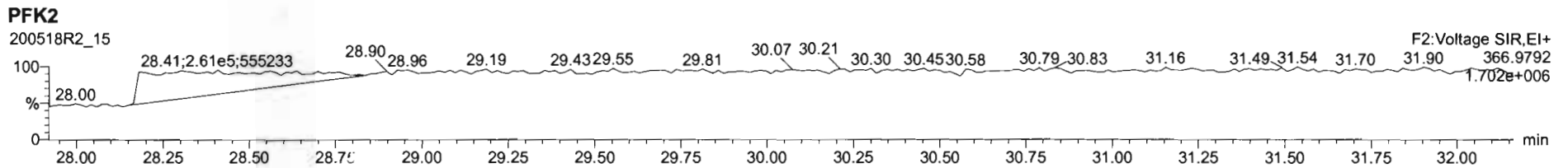
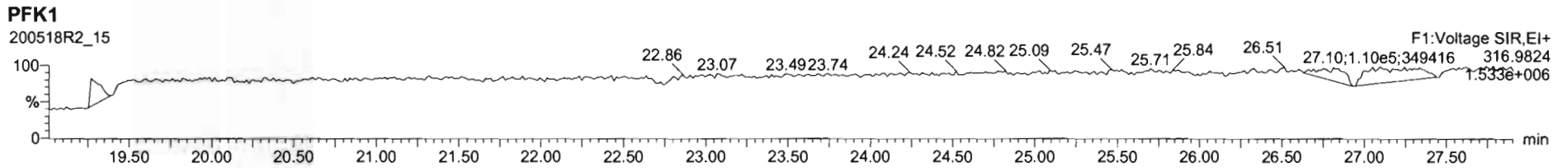


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July 05-08-2020

C7 05/15/2020

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200507R2_14, Date: 08-May-2020, Time: 00:33:43, ID: 2000953-04 PDI-165SC-A-03-04-200426 12.12, Description: PDI-165SC-A-03-04-200426

#	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	0.947	9.975	26.006		1.001				0.115	
2	2 1,2,3,7,8-PeCDD			NO	0.942	9.975	31.101		1.001				0.107	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	9.975	34.473		1.000				0.119	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	9.975	34.558		1.000				0.122	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	9.975	34.845		1.000				0.126	
6	6 1,2,3,4,6,7,8-HpCDD	2.05e3	0.94	NO	0.898	9.975	38.351	38.36	1.000	1.001	1.8592		0.289	1.86
7	7 OCDD	1.71e4	0.86	NO	0.933	9.975	41.332	41.34	1.000	1.000	21.219		0.350	21.2
8	8 2,3,7,8-TCDF			NO	0.787	9.975	25.042		1.001				0.0313	
9	9 1,2,3,7,8-PeCDF			NO	0.910	9.975	29.788		1.001				0.0653	
10	10 2,3,4,7,8-PeCDF			NO	0.966	9.975	30.804		1.001				0.0599	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	9.975	33.600		1.000				0.0600	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	9.975	33.727		1.000				0.0589	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	9.975	34.326		1.001				0.0579	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	9.975	35.176		1.000				0.106	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	9.975	36.949		1.001				0.0641	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	9.975	38.925		1.000				0.117	
17	17 OCDF			NO	0.802	9.975	41.514		1.000				0.194	
18	18 13C-2,3,7,8-TCDD	4.36e5	0.77	NO	1.16	9.975	25.969	25.98	1.026	1.027	107.02	53.4	0.431	
19	19 13C-1,2,3,7,8-PeCDD	3.88e5	0.63	NO	0.847	9.975	31.049	31.08	1.227	1.228	130.36	65.0	0.447	
20	20 13C-1,2,3,4,7,8-HxCDD	2.89e5	1.27	NO	0.750	9.975	34.473	34.46	1.014	1.014	145.12	72.4	0.953	
21	21 13C-1,2,3,6,7,8-HxCDD	3.81e5	1.28	NO	0.963	9.975	34.585	34.56	1.017	1.017	149.08	74.4	0.742	
22	22 13C-1,2,3,7,8,9-HxCDD	3.69e5	1.28	NO	0.838	9.975	34.854	34.83	1.025	1.025	165.99	82.8	0.854	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.46e5	1.04	NO	0.641	9.975	38.342	38.34	1.128	1.128	144.45	72.0	0.958	
24	24 13C-OCDD	3.46e5	0.90	NO	0.586	9.975	41.333	41.33	1.216	1.216	222.86	55.6	0.471	
25	25 13C-2,3,7,8-TCDF	5.46e5	0.79	NO	1.03	9.975	25.030	25.02	0.989	0.989	98.934	49.3	0.557	
26	26 13C-1,2,3,7,8-PeCDF	5.56e5	1.53	NO	0.845	9.975	29.741	29.77	1.176	1.177	123.41	61.5	1.04	
27	27 13C-2,3,4,7,8-PeCDF	5.39e5	1.52	NO	0.814	9.975	30.731	30.77	1.215	1.216	124.11	61.9	1.08	
28	28 13C-1,2,3,4,7,8-HxCDF	3.88e5	0.50	NO	1.00	9.975	33.613	33.60	0.989	0.988	145.49	72.6	0.909	
29	29 13C-1,2,3,6,7,8-HxCDF	4.60e5	0.50	NO	1.14	9.975	33.736	33.72	0.992	0.992	152.62	76.1	0.804	
30	30 13C-2,3,4,6,7,8-HxCDF	4.25e5	0.52	NO	1.02	9.975	34.303	34.29	1.009	1.009	156.95	78.3	0.894	
31	31 13C-1,2,3,7,8,9-HxCDF	3.04e5	0.50	NO	0.845	9.975	35.194	35.18	1.035	1.035	135.69	67.7	1.08	

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.34e5	0.41	NO	0.771	9.975	36.924	36.91	1.086	1.086	163.37	81.5	0.960	
33	13C-1,2,3,4,7,8,9-HpCDF	1.56e5	0.41	NO	0.482	9.975	38.933	38.92	1.145	1.145	122.00	60.8	1.53	
34	13C-OCDF	3.09e5	0.87	NO	0.669	9.975	41.503	41.51	1.221	1.221	174.54	43.5	0.418	
35	37Cl-2,3,7,8-TCDD	1.70e5			1.10	9.975	25.999	25.99	1.028	1.027	43.998	54.9	0.0839	
36	13C-1,2,3,4-TCDD	7.04e5	0.80	NO	1.00	9.975	25.350	25.30	1.000	1.000	200.50	100	0.499	
37	13C-1,2,3,4-TCDF	1.07e6	0.79	NO	1.00	9.975	23.560	23.50	1.000	1.000	200.50	100	0.576	
38	13C-1,2,3,4,6,9-HxCDF	5.32e5	0.51	NO	1.00	9.975	34.000	33.99	1.000	1.000	200.50	100	0.914	
39	Total Tetra-Dioxins				0.947	9.975	24.620		0.000				0.0709	
40	Total Penta-Dioxins				0.942	9.975	29.960		0.000				0.0490	
41	Total Hexa-Dioxins				0.915	9.975	33.635		0.000		1.7659		0.128	1.77
42	Total Hepta-Dioxins				0.898	9.975	37.640		0.000		6.1451		0.289	6.15
43	Total Tetra-Furans				0.787	9.975	23.610		0.000				0.0313	
44	1st Func. Penta-Furans				0.910	9.975	27.090		0.000				0.0151	
45	Total Penta-Furans				0.910	9.975	29.275		0.000				0.0278	
46	Total Hexa-Furans				0.922	9.975	33.555		0.000				0.0364	
47	Total Hepta-Furans				0.871	9.975	37.835		0.000				0.0316	

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-14.qld

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 Printed: Friday, May 08, 2020 09:08:39 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
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Name: 200507R2_14, Date: 08-May-2020, Time: 00:33:43, ID: 2000953-04 PDI-165SC-A-03-04-200426 12.12, Description: PDI-165SC-A-03-04-200426

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.00	2.260e4	2.033e4	1.191e3	8.768e2	1.36	NO	2.068e3	1.3107	1.3107	0.128
2	Total Hexa-Dioxins	33.81	9.350e3	4.859e3	4.095e2	3.088e2	1.33	NO	7.182e2	0.45519	0.45519	0.128

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.32	3.418e4	3.507e4	2.435e3	2.280e3	1.07	NO	4.715e3	4.2859	4.2859	0.289
2	1,2,3,4,6,7,8-HpCDD	38.36	1.332e4	1.579e4	9.917e2	1.054e3	0.94	NO	2.046e3	1.8592	1.8592	0.289

Tetra-Furans

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

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-14.qld

Last Altered: Friday, May 08, 2020 08:57:34 Pacific Daylight Time

Printed: Friday, May 08, 2020 09:08:39 Pacific Daylight Time

Name: 200507R2_14, Date: 08-May-2020, Time: 00:33:43, ID: 2000953-04 PDI-165SC-A-03-04-200426 12.12, Description: PDI-165SC-A-03-04-200426

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

Dataset: Untitled

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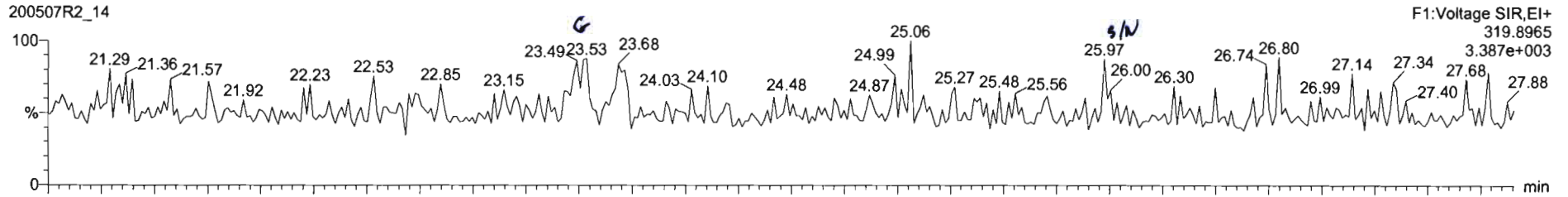
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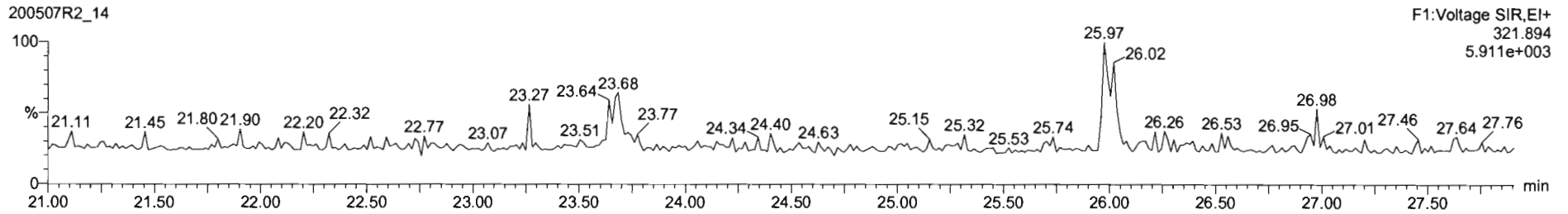
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2,3,7,8-TCDD

200507R2_14

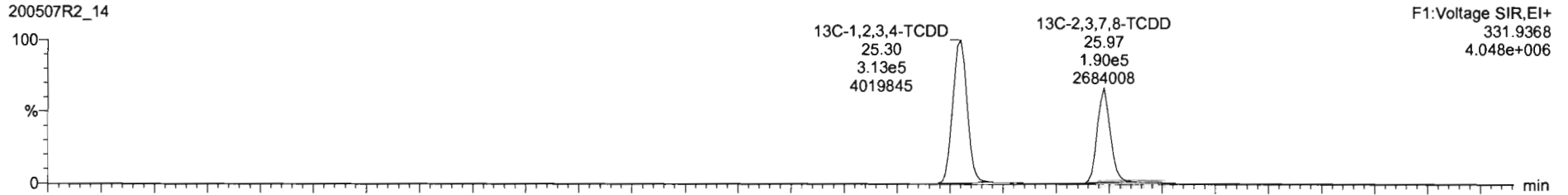


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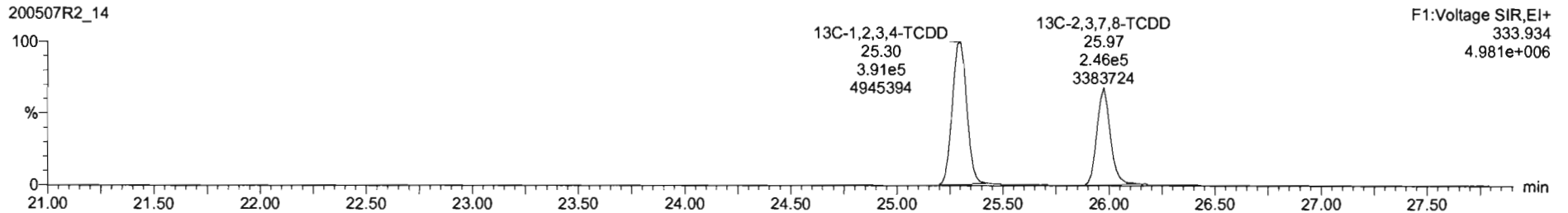


13C-2,3,7,8-TCDD

200507R2_14



200507R2_14



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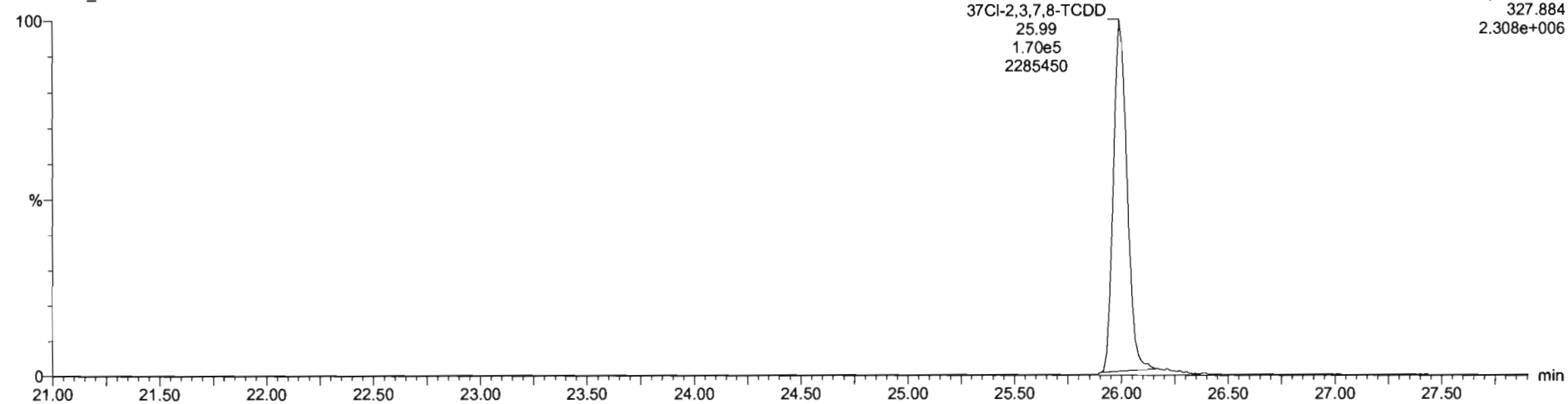
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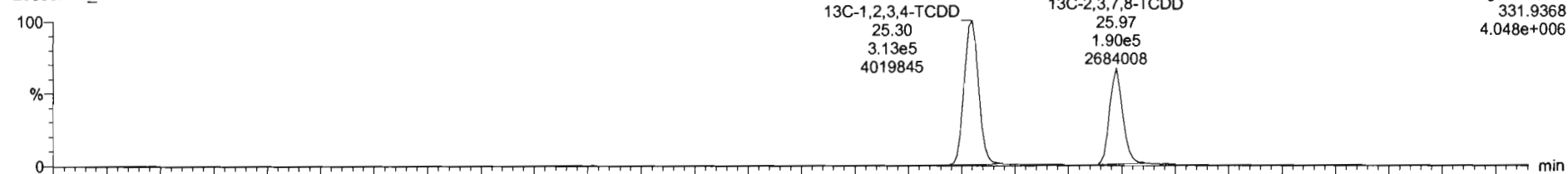
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200507R2_14

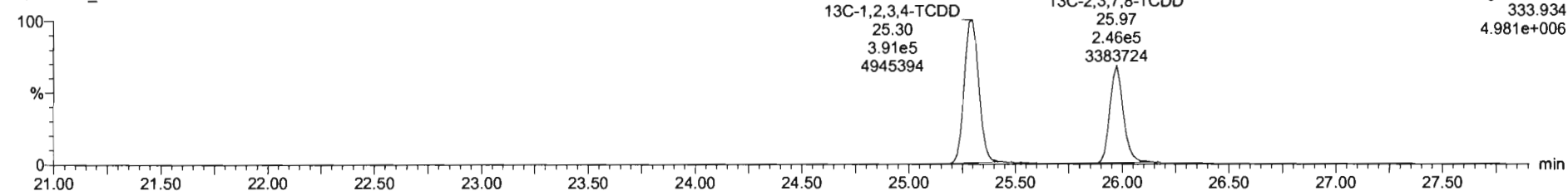


13C-1,2,3,4-TCDD

200507R2_14



200507R2_14



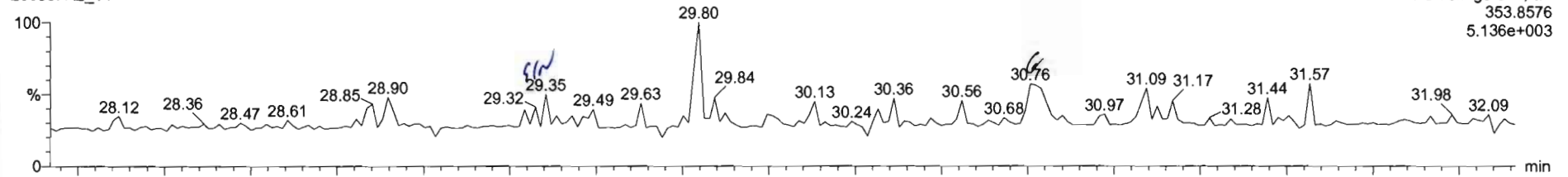
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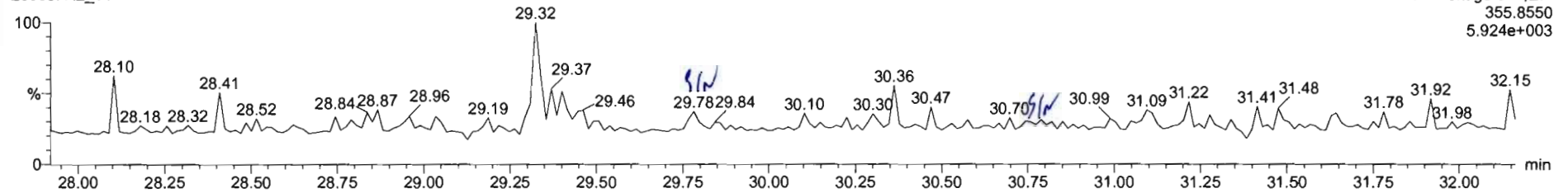
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1,2,3,7,8-PeCDD

200507R2_14

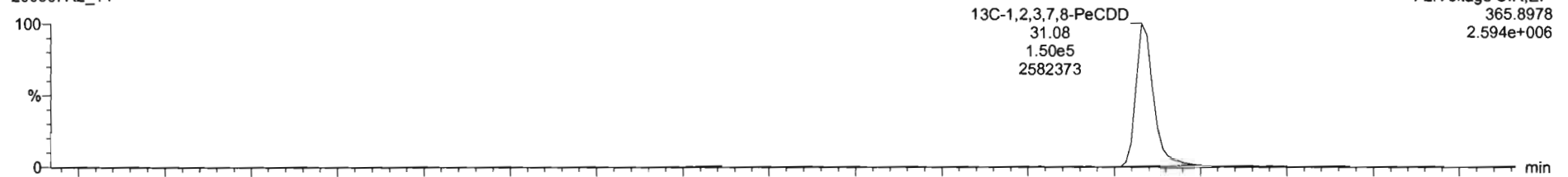


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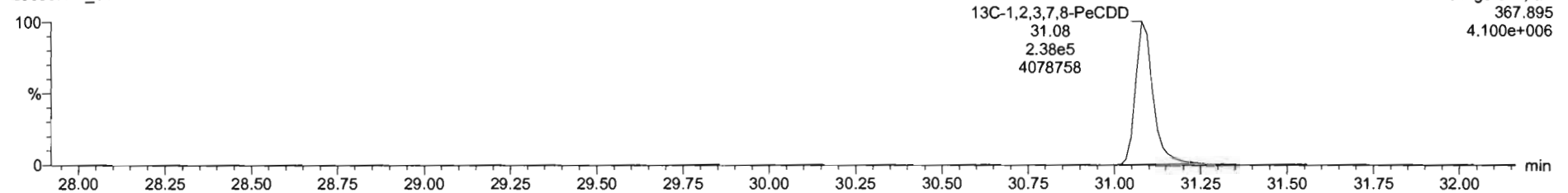


13C-1,2,3,7,8-PeCDD

200507R2_14



200507R2_14



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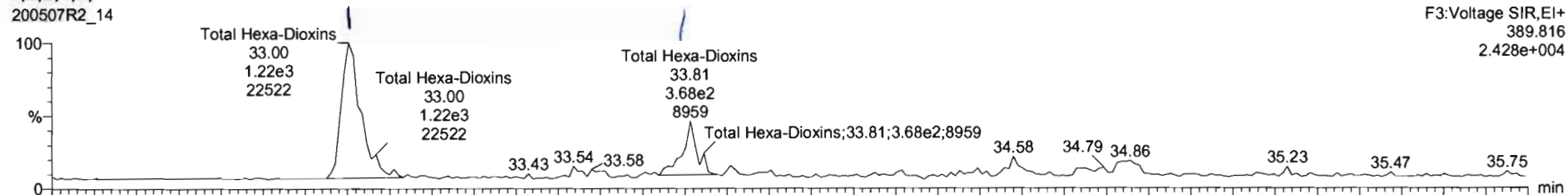
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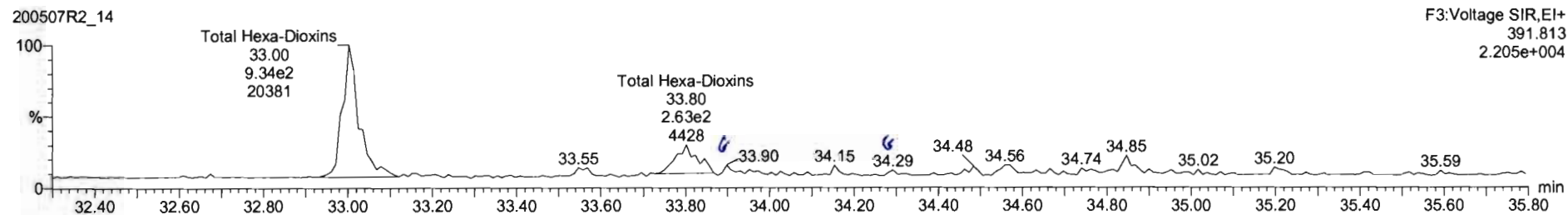
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1,2,3,4,7,8-HxCDD

200507R2_14

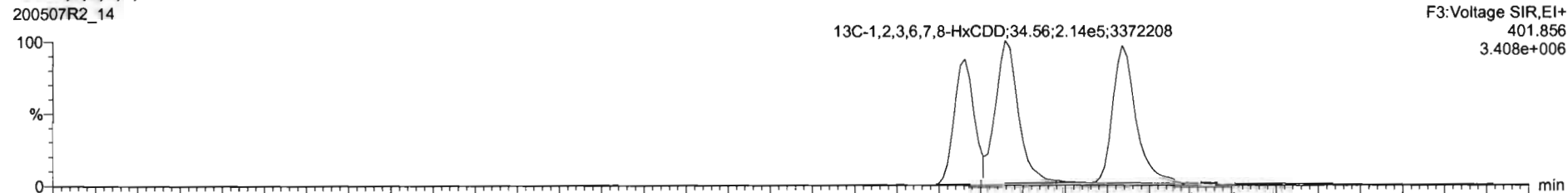


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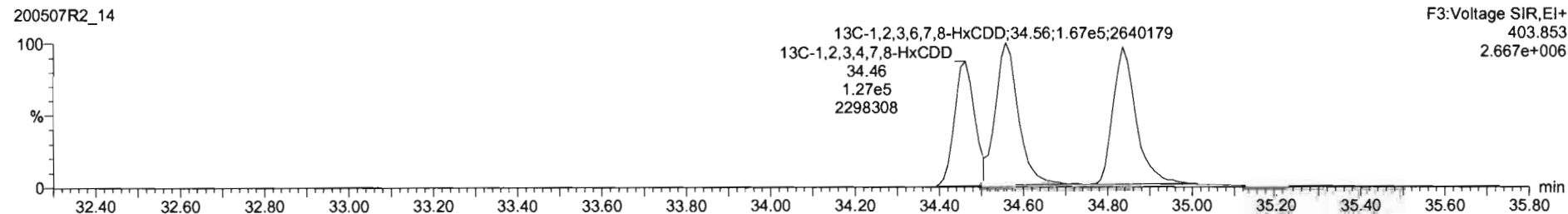


13C-1,2,3,4,7,8-HxCDD

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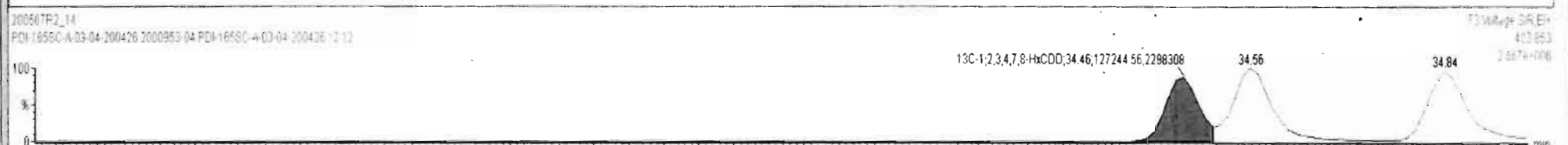
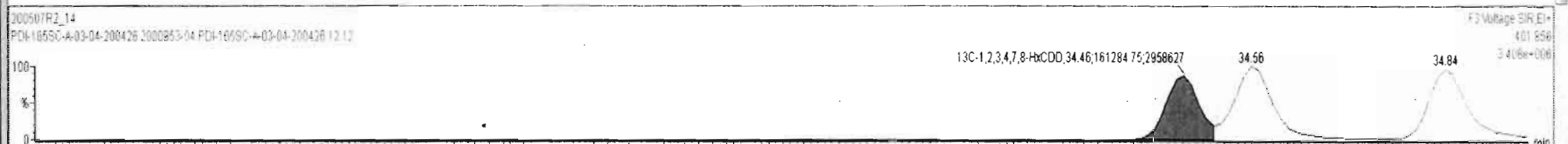
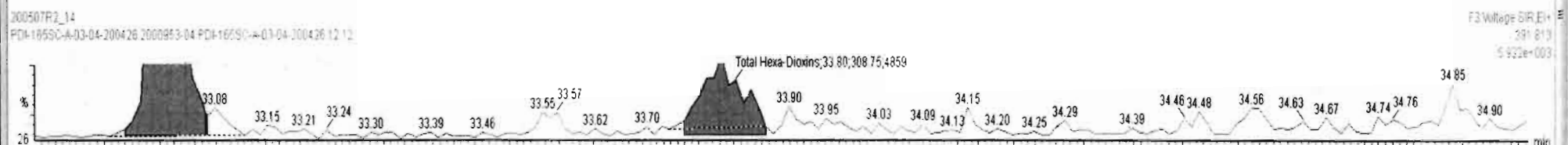
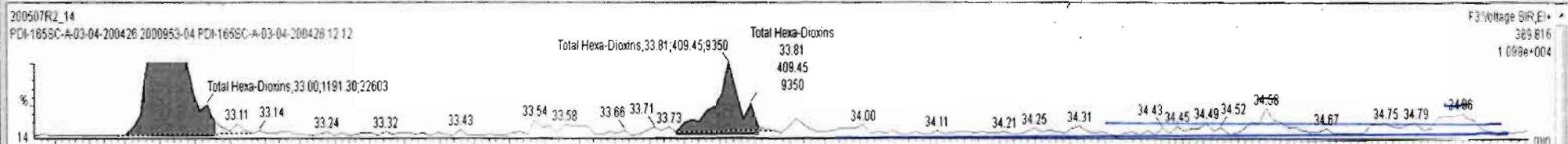


200507R2_14



Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1° Chr.Noise	ID	Sample Text	Factor1	SM	Cal File
Total Tetra-Dioxins		0.0709				0.947	39						08-May-20	00:33:43		2000953-04...	PDI-165SC-A-03...	0.0	9.98	dt6_1...
Total Penta-Dioxins		0.0490				0.942	40						08-May-20	00:33:43		2000953-04...	PDI-165SC-A-03...	0.0	9.98	dt6_1...
Total Hexa-Dioxins	1.76598	0.128		1.76598		0.915	41						08-May-20	00:33:43		2000953-04...	PDI-165SC-A-03...	0.0	9.98	dt6_1...
Total Hepta-Dioxins	6.16032	0.288		6.16032		0.888	42						08-May-20	00:33:43		2000953-04...	PDI-165SC-A-03...	0.0	9.98	dt6_1...
Total Tetra-Furans		0.0313				0.787	43						08-May-20	00:33:43		2000953-04...	PDI-165SC-A-03...	0.0	9.98	dt6_1...
1st Func. Penta-Furans		0.0151				0.910	44						08-May-20	00:33:43		2000953-04...	PDI-165SC-A-03...	0.0	9.98	dt6_1...
Total Penta-Furans		0.0278				0.910	45						08-May-20	00:33:43		2000953-04...	PDI-165SC-A-03...	0.0	9.98	dt6_1...

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC
Total Hexa-Dioxins	33.81	9.350e3	4.859e3	4.095e2	3.088e2	1.33	NO	7.182e2	0.455	0.455
Total Hexa-Dioxins	33.00	2.260e4	2.033e4	1.191e3	8.786e2	1.36	NO	2.068e3	1.31	1.31



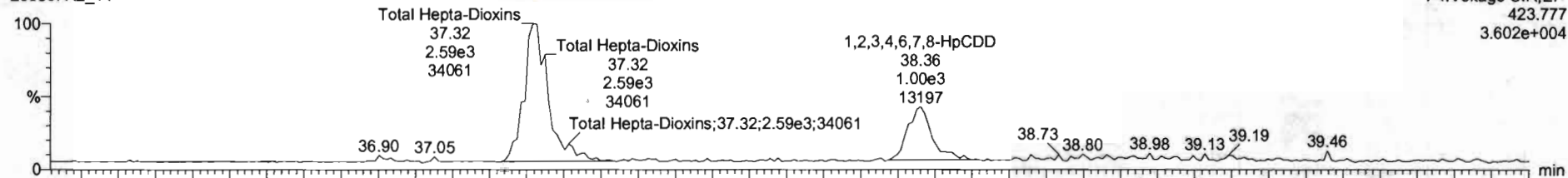
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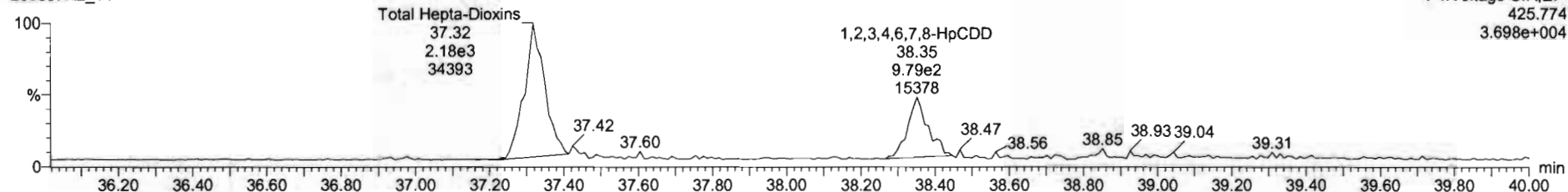
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1,2,3,4,6,7,8-HpCDD

200507R2_14

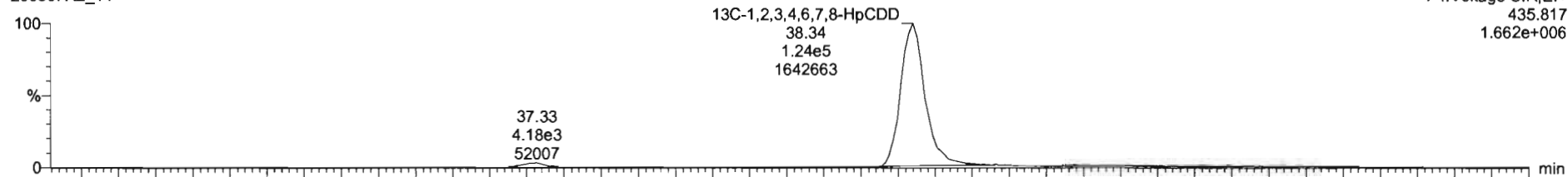


200507R2_14

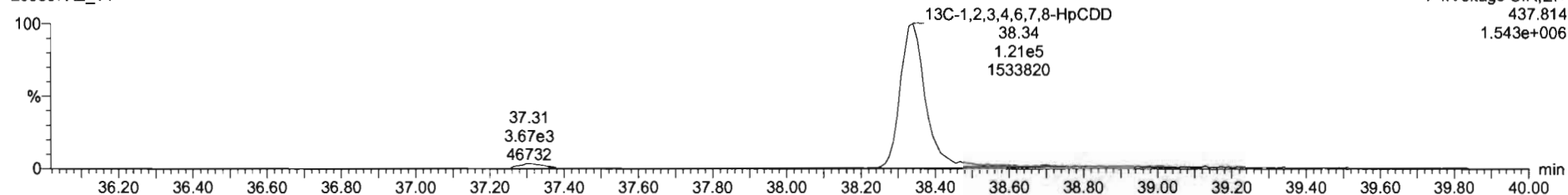


13C-1,2,3,4,6,7,8-HpCDD

200507R2_14



200507R2_14



Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	ISF	RA	YN	RRT	Acq Date	Acq Time	1° Chr Noise	ID	Sample Text	Factor1	SM	Cal File
39 Total Tetra-Dioxins		0.0709				0.947		39					08-May-20	00:33:43		2000953-04	PDI-165SC-A-03...	0.0	9.98	dt6_1...
40 Total Penta-Dioxins		0.0490				0.942		40					08-May-20	00:33:43		2000953-04	PDI-165SC-A-03...	0.0	9.98	dt6_1...
41 Total Hexa-Dioxins	1.76588	0.128		1.76588		0.915		41					08-May-20	00:33:43		2000953-04	PDI-165SC-A-03...	0.0	9.98	dt6_1...
42 Total Hepta-Dioxins	6.14513	0.269		6.14513		0.898		42					08-May-20	00:33:43		2000953-04	PDI-165SC-A-03...	0.0	9.98	dt6_1...
43 Total Tetra-Furans		0.0313				0.787		43					08-May-20	00:33:43		2000953-04	PDI-165SC-A-03...	0.0	9.98	dt6_1...
44 1st Func. Penta-Furans		0.0151				0.910		44					08-May-20	00:33:43		2000953-04	PDI-165SC-A-03...	0.0	9.98	dt6_1...
45 Total Penta-Furans		0.0278				0.910		45					08-May-20	00:33:43		2000953-04	PDI-165SC-A-03...	0.0	9.98	dt6_1...

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1 1,2,3,4,6,7,8-HpCDD	38.36	1.332e4	1.579e4	9.917e2	1.054e3	0.94	NO	2.046e3	1.86	1.86
2 Total Hepta-Dioxins	37.32	3.418e4	3.507e4	2.435e3	2.280e3	1.07	NO	4.715e3	4.29	4.29

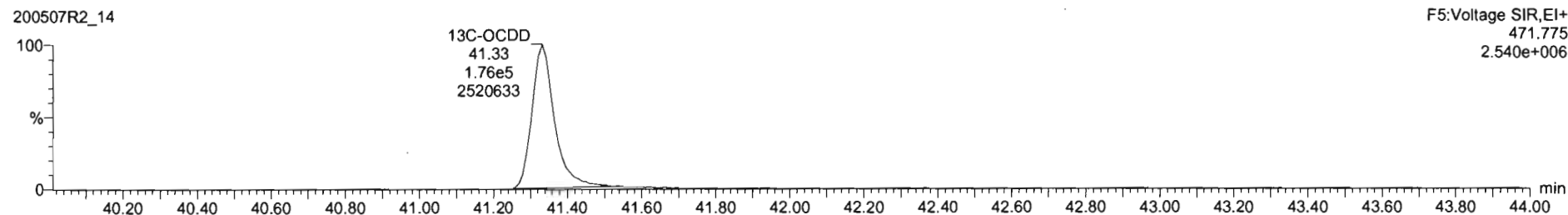
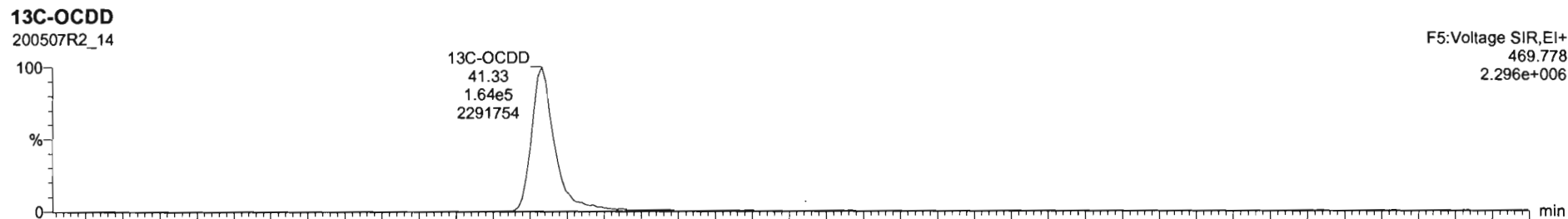
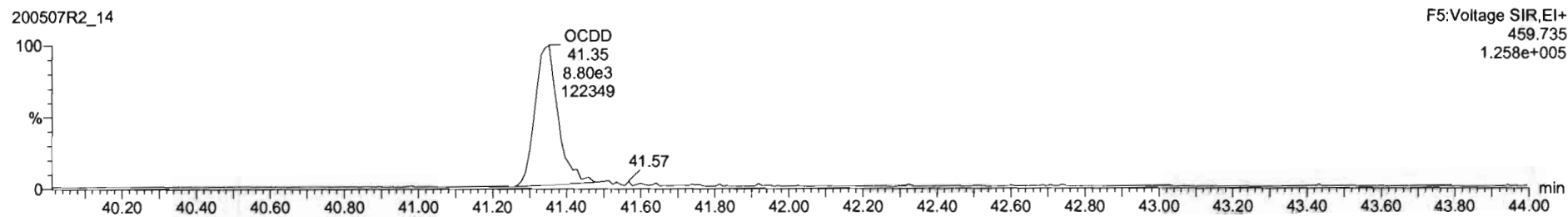
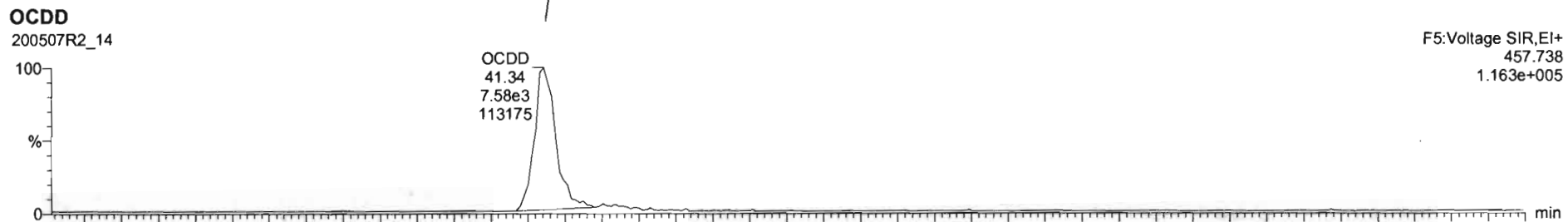


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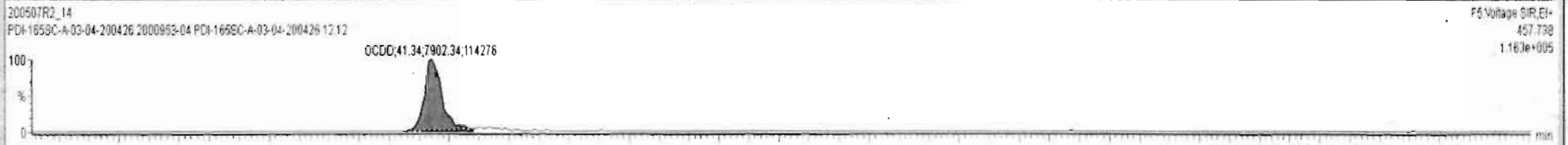
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200507R2_14 - 2000953-04 PDI-165SC-A-03-04-200426 12 12 - PDI-165SC-A-03-04-200426

Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	YN	RRT	Acq.Date	Acq.Time	1° Chr.Noise	ID	Sample Text	Factor1	SW	Cal File	
7 OCDD	21.2190	0.350		21.2190	1.711e4	0.933	41.34	7	24	0.858	NO	1.000	06-May-20	00:33:43	915.583	2000953-04...	PDI-165SC-A-03...	0.0	9.98	db5_1...	
8 2,3,7,8-TCDF		0.0313				0.787		8	25				06-May-20	00:33:43		2000953-04...	PDI-165SC-A-03...	0.0	9.98	db5_1...	
9 1,2,3,7,8-PeCDF								9	26										1		
10 2,3,4,7,8-PeCDF								10	27										1		
11 1,2,3,4,7,8-HxCDF								11	28										1		
12 1,2,3,6,7,8-HxCDF		0.0589				0.874		12	29		NO		08-May-20	00:33:43	299.528	2000953-04...	PDI-165SC-A-03...	0.0	9.98	db5_1...	
13 2,3,4,6,7,8-HxCDF		0.0579				0.922		13	30		NO		06-May-20	00:33:43	299.528	2000953-04...	PDI-165SC-A-03...	0.0	9.98	db5_1...	

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



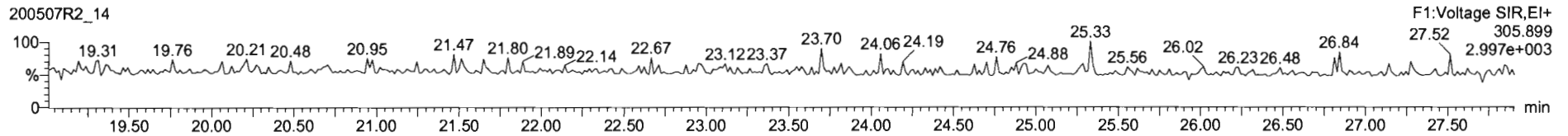
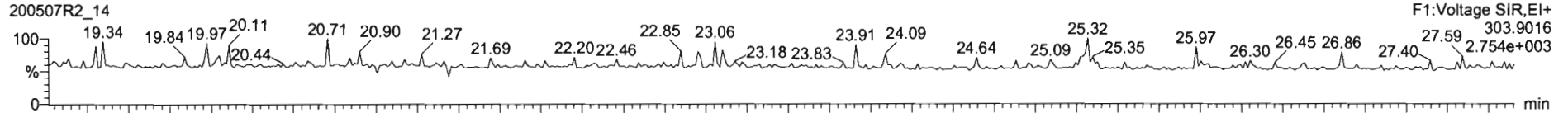
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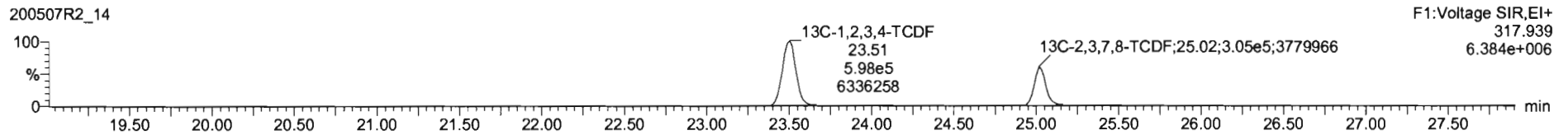
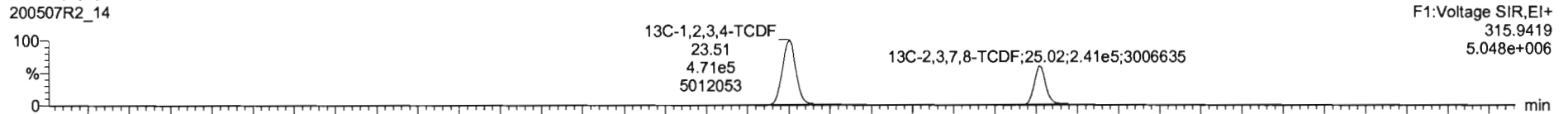
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2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

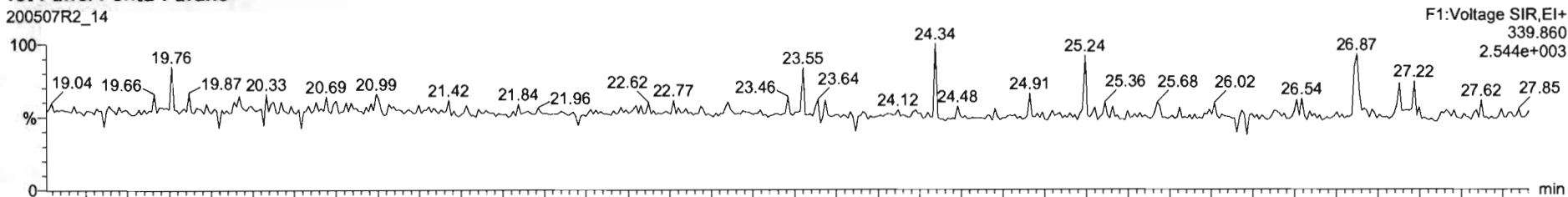
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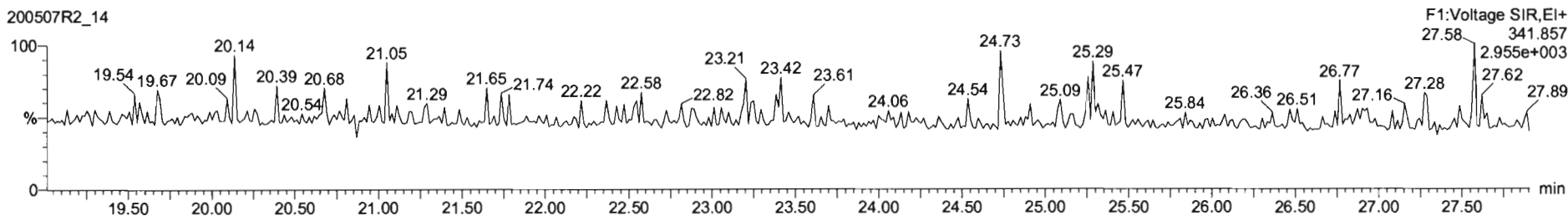
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1st Func. Penta-Furans

200507R2_14

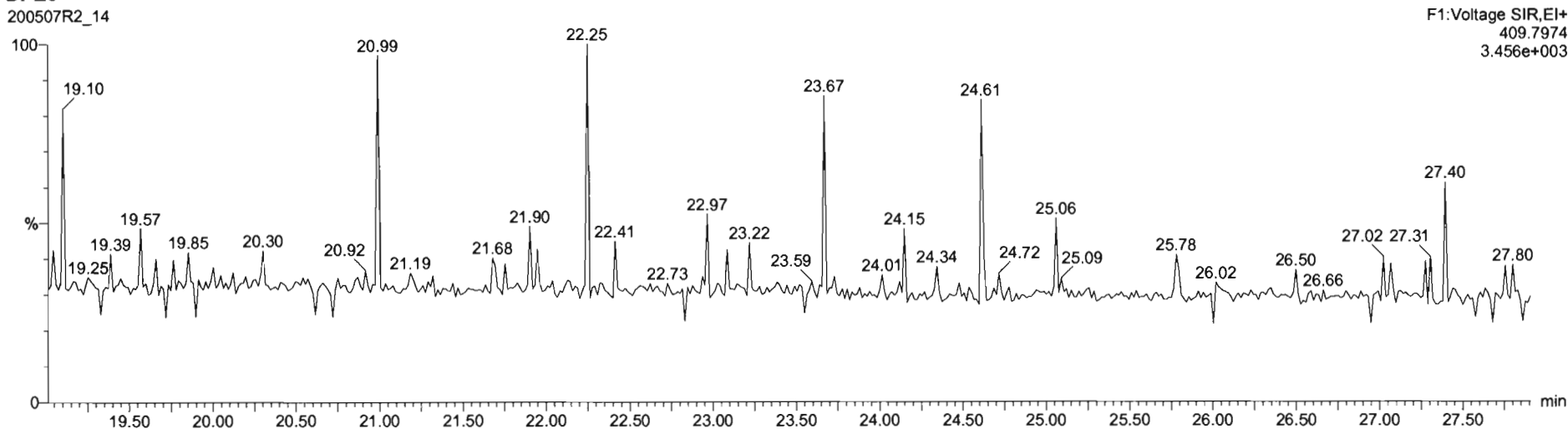


200507R2_14



DPE6

200507R2_14



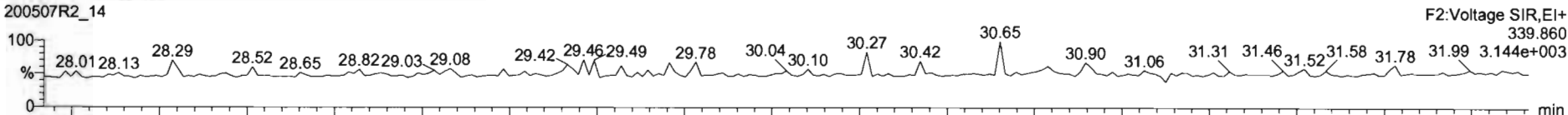
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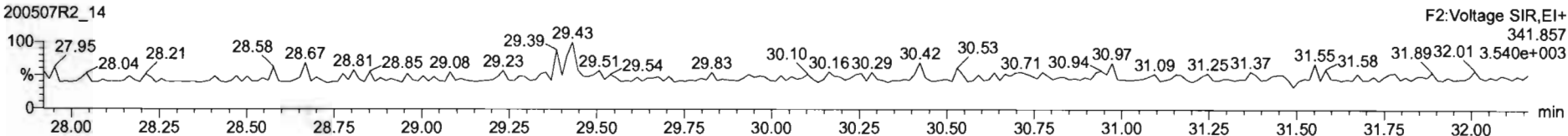
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1,2,3,7,8-PeCDF

200507R2_14

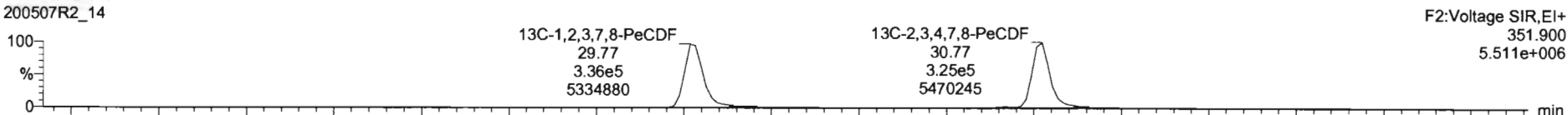


200507R2_14

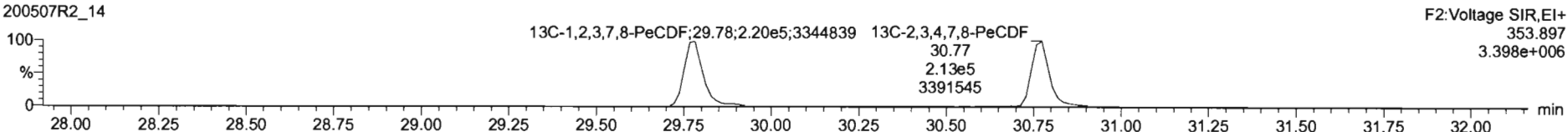


13C-1,2,3,7,8-PeCDF

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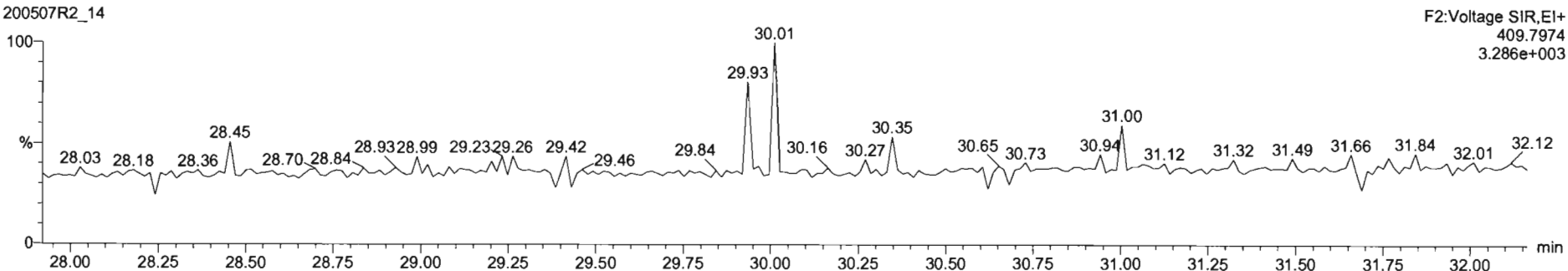


200507R2_14



DPE2

200507R2_14

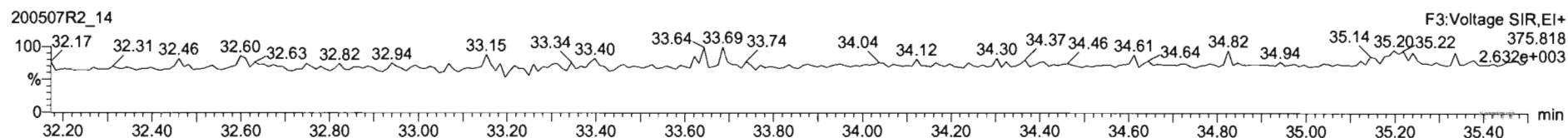
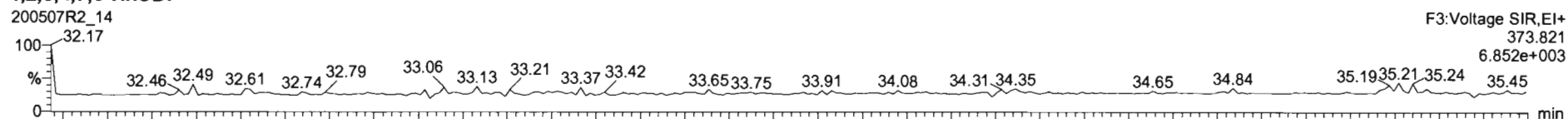


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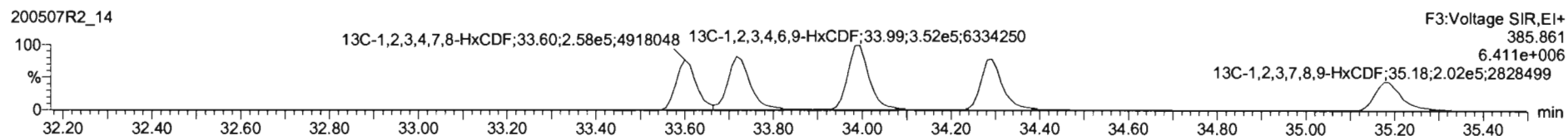
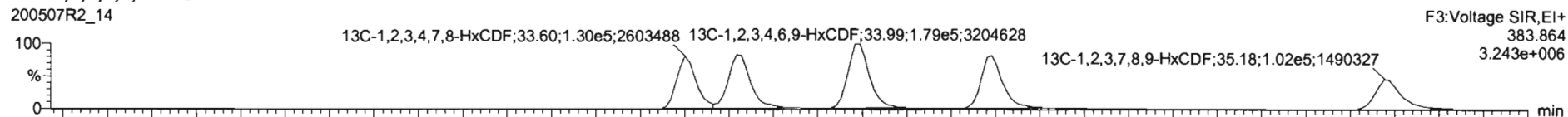
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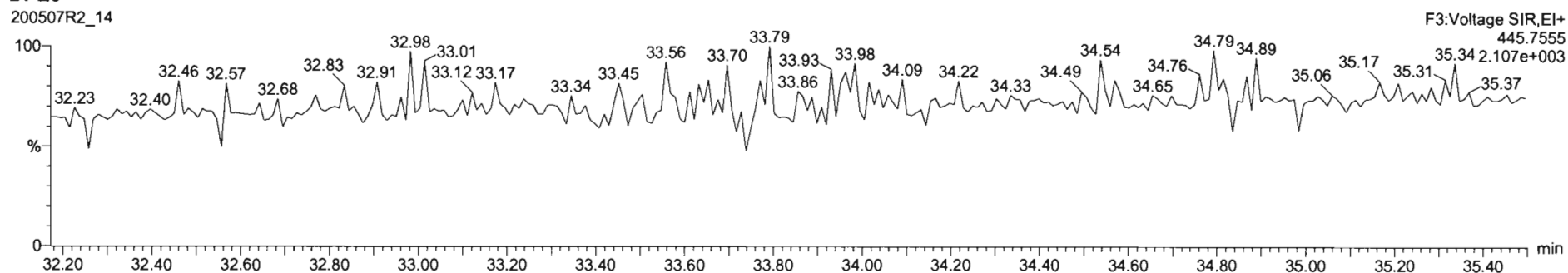
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13C-1,2,3,4,7,8-HxCDF



DPE3

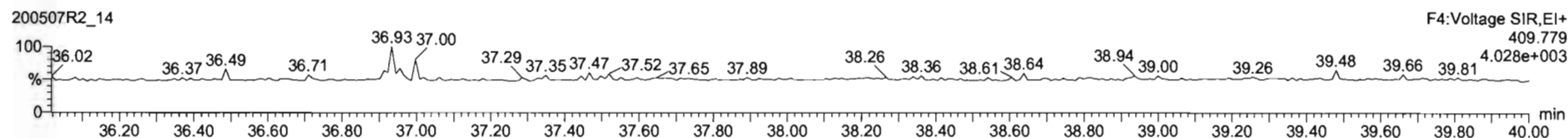
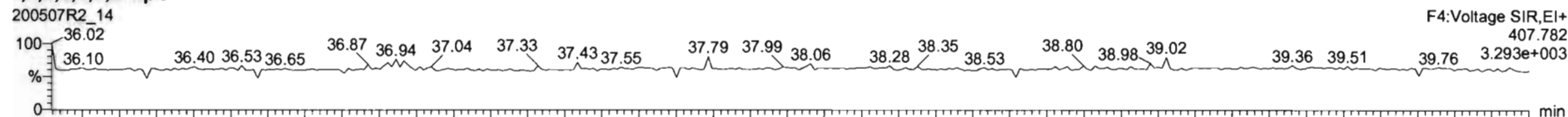


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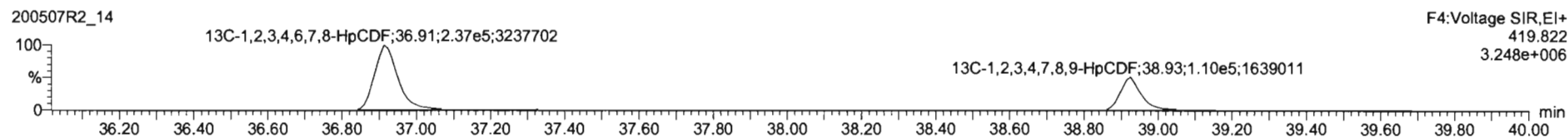
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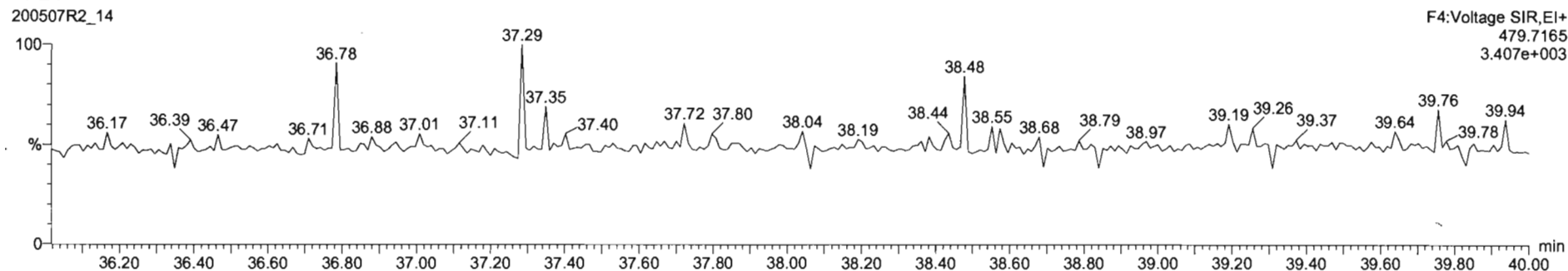
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13C-1,2,3,4,6,7,8-HpCDF



DPE4

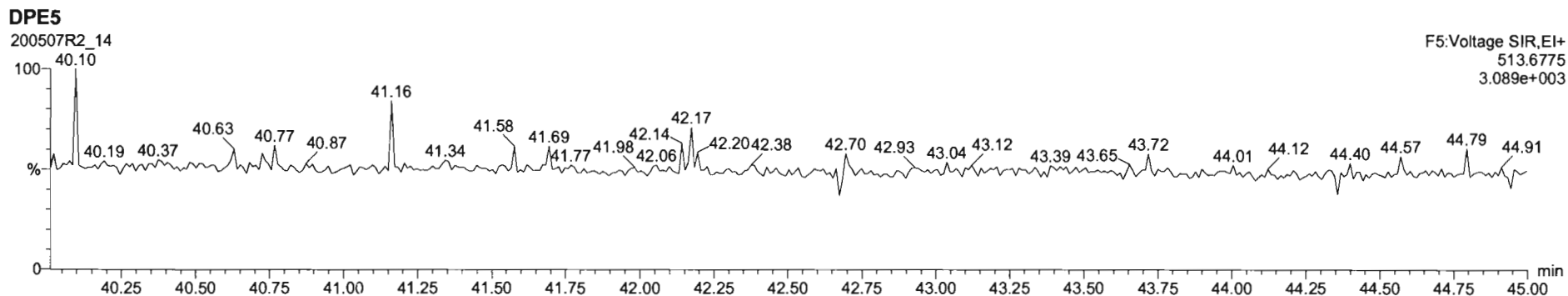
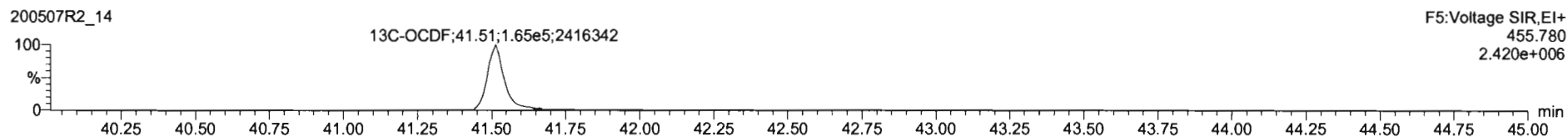
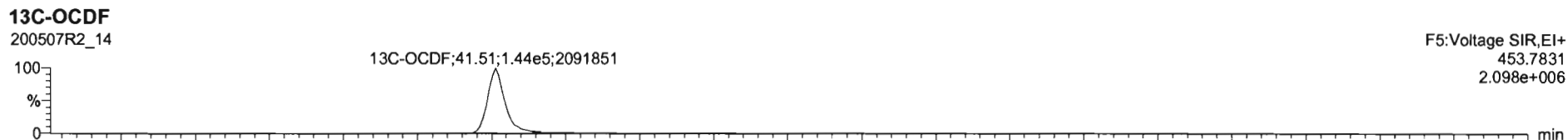
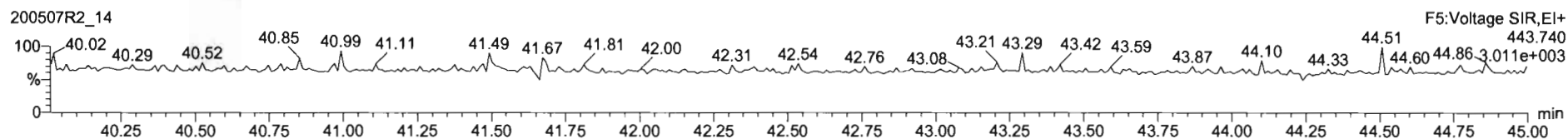
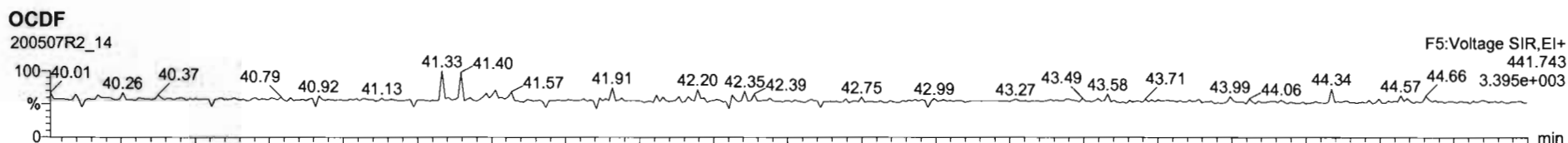


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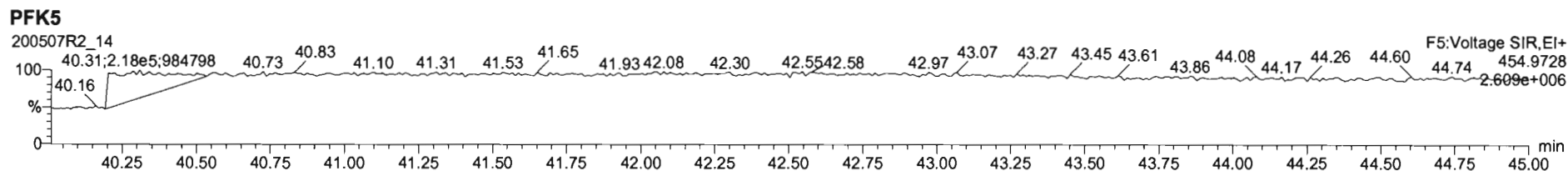
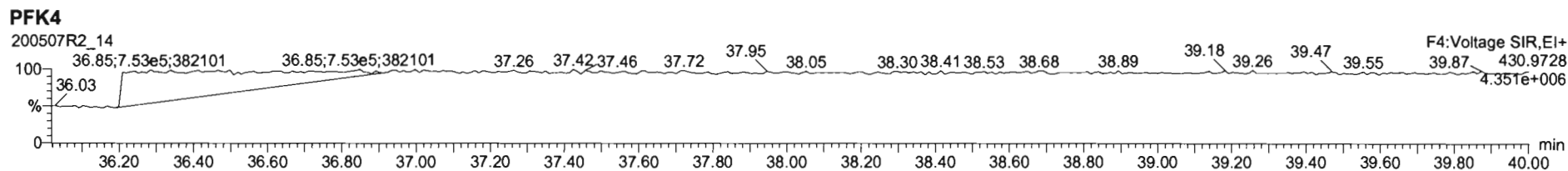
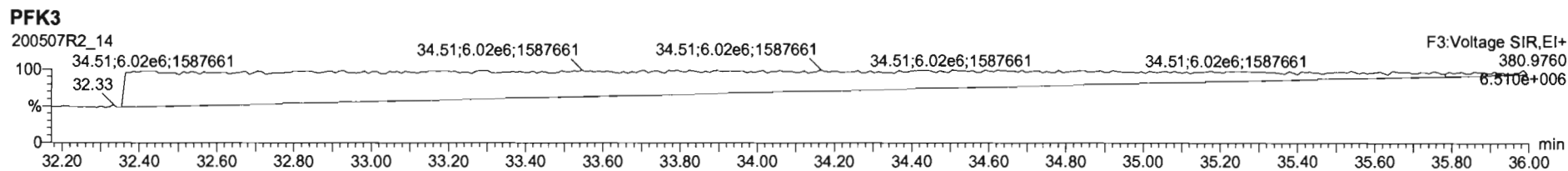
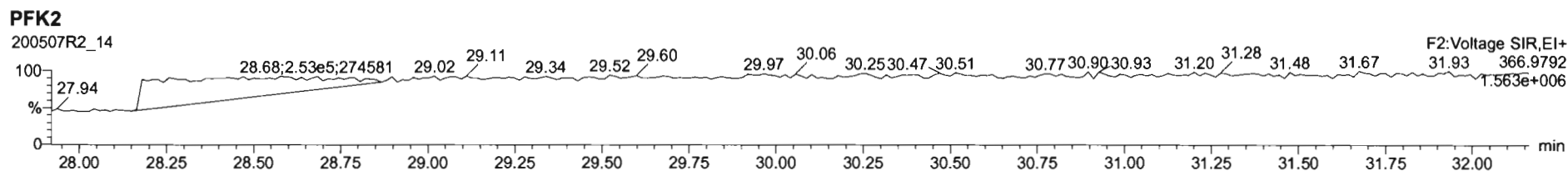
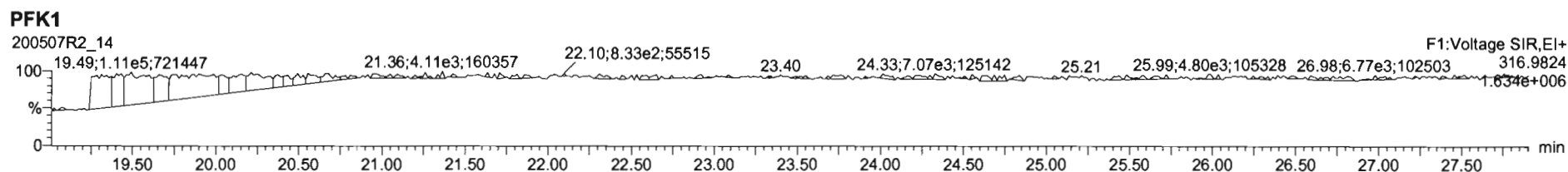


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Dataset: U:\VG12.PRO\Results\200507R2\200507R2-15.qld

Last Altered: Friday, May 08, 2020 09:56:23 Pacific Daylight Time
Printed: Friday, May 08, 2020 10:00:16 Pacific Daylight Time

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C705/15/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200507R2_15, Date: 08-May-2020, Time: 01:20:05, ID: 2000953-05 PDI-165SC-A-04-05-200426 12.11, Description: PDI-165SC-A-04-05-200426

#	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	0.947	10.458	26.006		1.001				0.0767	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.458	31.101		1.001				0.117	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.458	34.473		1.000				0.102	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.458	34.569		1.000				0.110	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.458	34.856		1.000				0.122	
6	6 1,2,3,4,6,7,8-HpCDD	5.56e3	0.96	NO	0.898	10.458	38.351	38.35	1.000	1.000	3.7704		0.282	3.77
7	7 OCDD	2.53e4	0.84	NO	0.933	10.458	41.333	41.34	1.000	1.000	23.481		0.210	23.5
8	8 2,3,7,8-TCDF			NO	0.787	10.458	25.042		1.001				0.0497	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.458	29.803		1.001				0.0405	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.458	30.805		1.001				0.0379	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.458	33.611		1.000				0.0417	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.458	33.738		1.000				0.0394	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.458	34.326		1.001				0.0407	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.458	35.187		1.000				0.0750	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.458	36.960		1.001				0.0620	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.458	38.936		1.000				0.108	
17	17 OCDF	3.93e2	0.90	NO	0.802	10.458	41.524	41.52	1.000	1.000	0.44739		0.125	0.447
18	18 13C-2,3,7,8-TCDD	7.09e5	0.78	NO	1.16	10.458	25.954	25.98	1.026	1.027	154.09	80.6	0.335	
19	19 13C-1,2,3,7,8-PeCDD	5.59e5	0.63	NO	0.847	10.458	31.031	31.08	1.227	1.229	166.15	86.9	0.604	
20	20 13C-1,2,3,4,7,8-HxCDD	4.11e5	1.28	NO	0.750	10.458	34.473	34.46	1.014	1.014	184.09	96.3	0.763	
21	21 13C-1,2,3,6,7,8-HxCDD	5.28e5	1.31	NO	0.963	10.458	34.585	34.57	1.017	1.017	183.99	96.2	0.594	
22	22 13C-1,2,3,7,8,9-HxCDD	4.97e5	1.37	NO	0.838	10.458	34.854	34.85	1.025	1.025	199.15	104	0.683	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.14e5	1.05	NO	0.641	10.458	38.342	38.34	1.128	1.128	164.41	86.0	0.953	
24	24 13C-OCDD	4.42e5	0.95	NO	0.586	10.458	41.333	41.33	1.216	1.216	252.80	66.1	0.567	
25	25 13C-2,3,7,8-TCDF	9.08e5	0.82	NO	1.03	10.458	25.015	25.02	0.989	0.989	148.56	77.7	0.436	
26	26 13C-1,2,3,7,8-PeCDF	8.45e5	1.63	NO	0.845	10.458	29.724	29.78	1.176	1.178	169.26	88.5	0.996	
27	27 13C-2,3,4,7,8-PeCDF	7.89e5	1.61	NO	0.814	10.458	30.712	30.77	1.215	1.217	163.98	85.7	1.03	
28	28 13C-1,2,3,4,7,8-HxCDF	5.34e5	0.50	NO	1.00	10.458	33.613	33.61	0.989	0.989	178.42	93.3	0.890	
29	29 13C-1,2,3,6,7,8-HxCDF	6.58e5	0.51	NO	1.14	10.458	33.736	33.73	0.992	0.992	194.35	102	0.787	
30	30 13C-2,3,4,6,7,8-HxCDF	5.79e5	0.51	NO	1.02	10.458	34.303	34.29	1.009	1.009	190.04	99.4	0.875	
31	31 13C-1,2,3,7,8,9-HxCDF	4.19e5	0.50	NO	0.845	10.458	35.194	35.19	1.035	1.035	166.33	87.0	1.06	

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-15.qld

Last Altered: Friday, May 08, 2020 09:56:23 Pacific Daylight Time
Printed: Friday, May 08, 2020 10:00:16 Pacific Daylight Time

Name: 200507R2_15, Date: 08-May-2020, Time: 01:20:05, ID: 2000953-05 PDI-165SC-A-04-05-200426 12.11, Description: PDI-165SC-A-04-05-200426

#	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	4.24e5	0.42	NO	0.771	10.458	36.924	36.92	1.086	1.086	184.63	96.5	1.04	
33	13C-1,2,3,4,7,8,9-HpCDF	2.01e5	0.44	NO	0.482	10.458	38.933	38.94	1.145	1.145	140.11	73.3	1.66	
34	13C-OCDF	4.18e5	0.85	NO	0.669	10.458	41.503	41.52	1.221	1.222	210.02	54.9	0.387	
35	37Cl-2,3,7,8-TCDD	2.57e5			1.10	10.458	25.984	25.99	1.028	1.028	58.982	77.1	0.0689	
36	13C-1,2,3,4-TCDD	7.59e5	0.78	NO	1.00	10.458	25.350	25.29	1.000	1.000	191.25	100	0.388	
37	13C-1,2,3,4-TCDF	1.13e6	0.82	NO	1.00	10.458	23.560	23.50	1.000	1.000	191.25	100	0.451	
38	13C-1,2,3,4,6,9-HxCDF	5.70e5	0.52	NO	1.00	10.458	34.000	33.99	1.000	1.000	191.25	100	0.895	
39	39 Total Tetra-Dioxins				0.947	10.458	24.620		0.000		0.14457		0.0767	0.145
40	40 Total Penta-Dioxins				0.942	10.458	29.960		0.000				0.0476	
41	41 Total Hexa-Dioxins				0.915	10.458	33.635		0.000		1.3335		0.117	1.33
42	42 Total Hepta-Dioxins				0.898	10.458	37.640		0.000		9.5283		0.282	9.53
43	43 Total Tetra-Furans				0.787	10.458	23.610		0.000				0.0217	
44	44 1st Func. Penta-Furans				0.910	10.458	27.090		0.000				0.0127	
45	45 Total Penta-Furans				0.910	10.458	29.275		0.000				0.0128	
46	46 Total Hexa-Furans				0.922	10.458	33.555		0.000				0.0270	
47	47 Total Hepta-Furans				0.871	10.458	37.835		0.000		0.30543		0.0346	0.305

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Dataset: U:\VG12.PRO\Results\200507R2\200507R2-15.qld

Last Altered: Friday, May 08, 2020 09:56:23 Pacific Daylight Time

Printed: Friday, May 08, 2020 10:00:16 Pacific Daylight Time

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Name: 200507R2_15, Date: 08-May-2020, Time: 01:20:05, ID: 2000953-05 PDI-165SC-A-04-05-200426 12.11, Description: PDI-165SC-A-04-05-200426

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.73	3.710e3	3.838e3	2.303e2	2.776e2	0.83	NO	5.079e2	0.14457	0.14457	0.0767

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.01	2.293e4	1.559e4	1.149e3	8.413e2	1.37	NO	1.990e3	0.86922	0.86922	0.117
2	Total Hexa-Dioxins	33.80	9.219e3	8.940e3	5.589e2	5.040e2	1.11	NO	1.063e3	0.46424	0.46424	0.117

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.33	5.259e4	5.709e4	4.223e3	4.272e3	0.99	NO	8.496e3	5.7579	5.7579	0.282
2	1,2,3,4,6,7,8-HpCDD	38.35	3.375e4	3.704e4	2.731e3	2.832e3	0.96	NO	5.563e3	3.7704	3.7704	0.282

Tetra-Furans

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

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-15.qld

Last Altered: Friday, May 08, 2020 09:56:23 Pacific Daylight Time

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Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Furans	37.51	3.632e3	3.133e3	2.236e2	2.117e2	1.06	NO	4.352e2	0.30543	0.30543	0.0346

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Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time

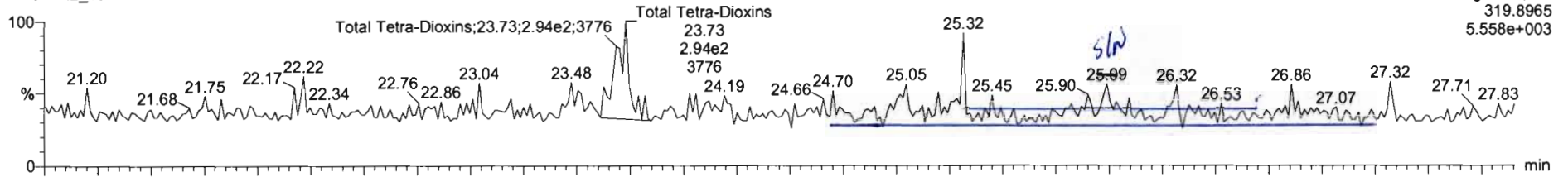
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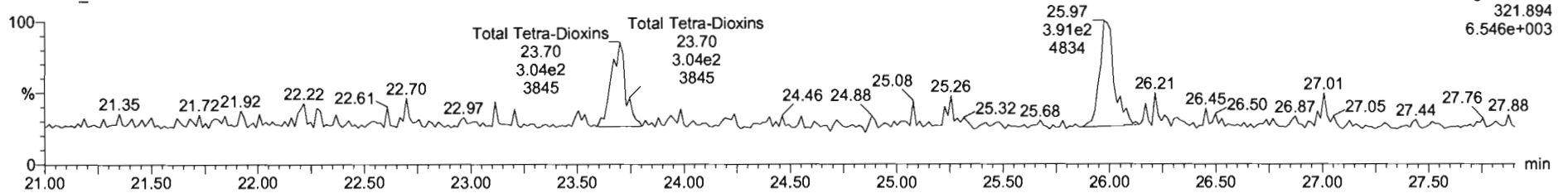
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2,3,7,8-TCDD

200507R2_15

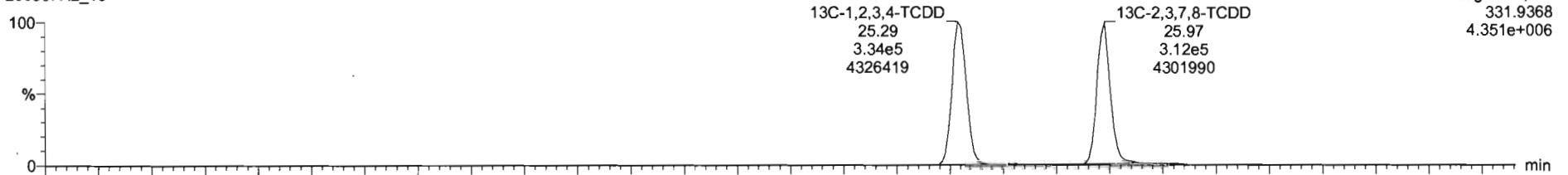


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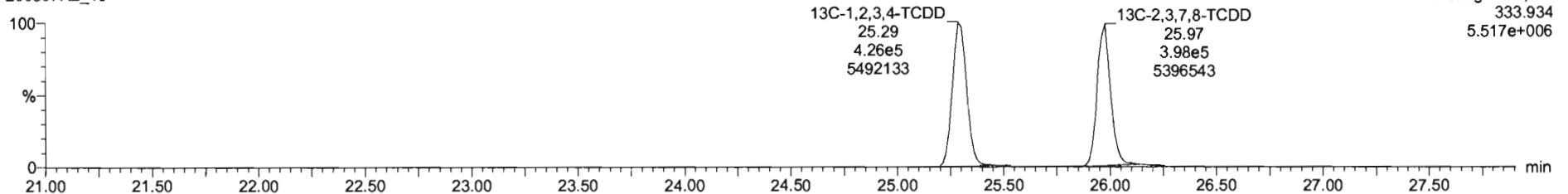


13C-2,3,7,8-TCDD

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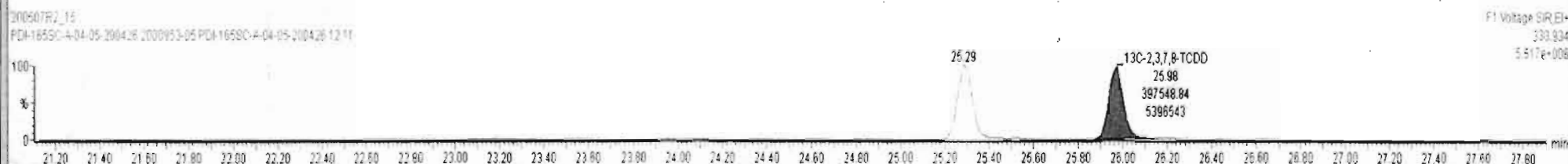
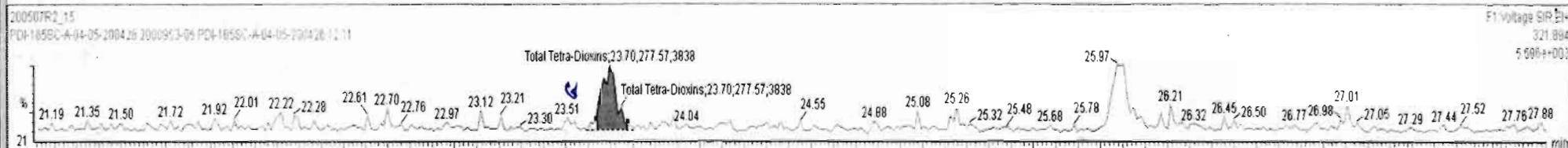
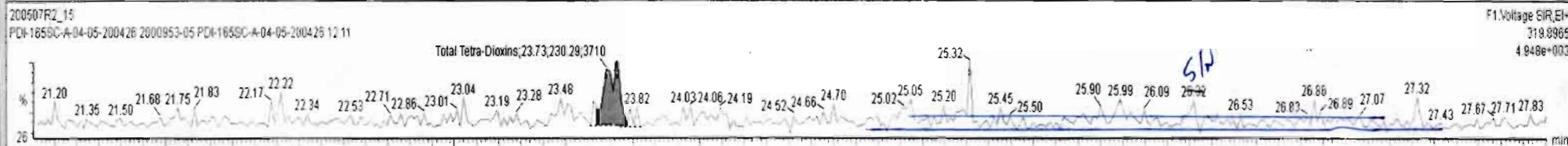


200507R2_15



Name	Resp	RA	n/y	RF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.458			0.145		0.0767	0.145
40 Total Penta-Dioxins				0.9425	10.458					0.0476	
41 Total Hexa-Dioxins				0.9145	10.458			0.439		0.117	1.24
42 Total Hepta-Dioxins				0.8979	10.458			9.28		0.280	9.28
43 Total Tetra-Furans				0.7871	10.458					0.0217	
44 1st Func. Penta-Furans				0.9102	10.458					0.0127	
45 Total Penta-Furans				0.9102	10.458					0.0128	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	23.73	2.303e2	2.776e2	0.83	NO	0.14457	0.14457



Dataset: Untitled

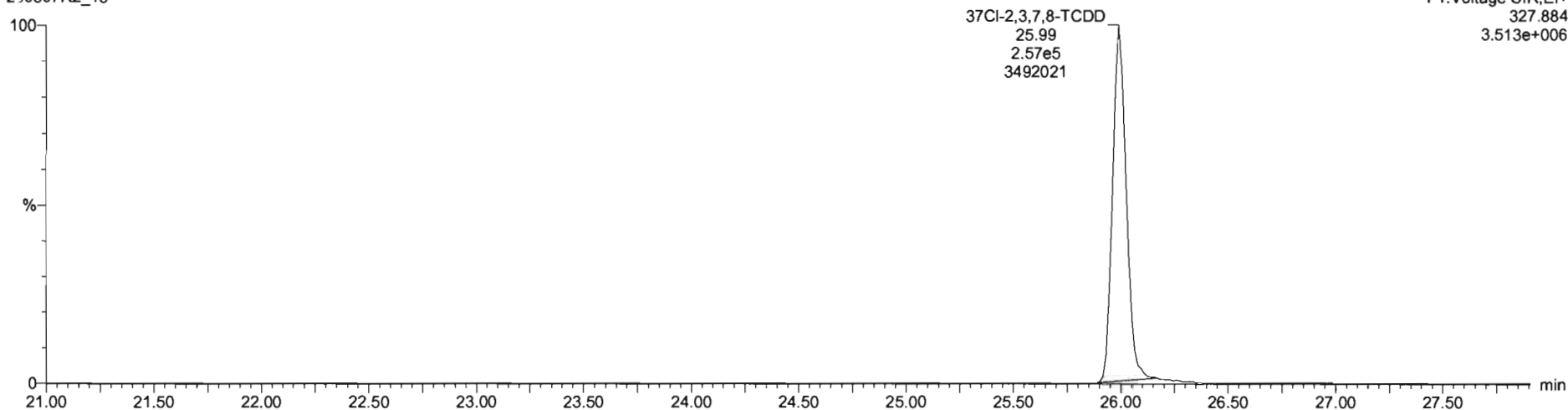
Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_15, Date: 08-May-2020, Time: 01:20:05, ID: 2000953-05 PDI-165SC-A-04-05-200426 12.11, Description: PDI-165SC-A-04-05-200426

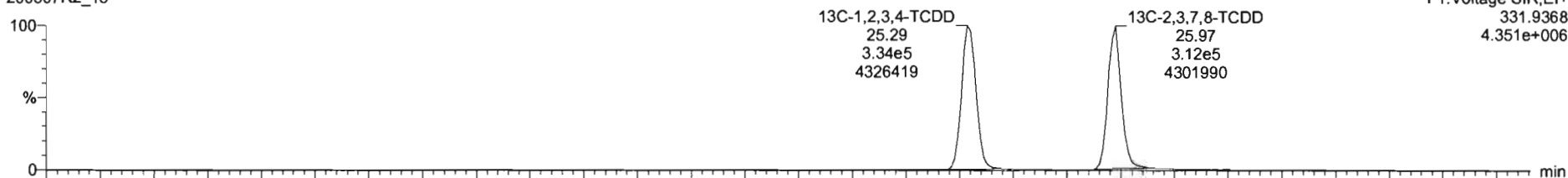
37Cl-2,3,7,8-TCDD

200507R2_15

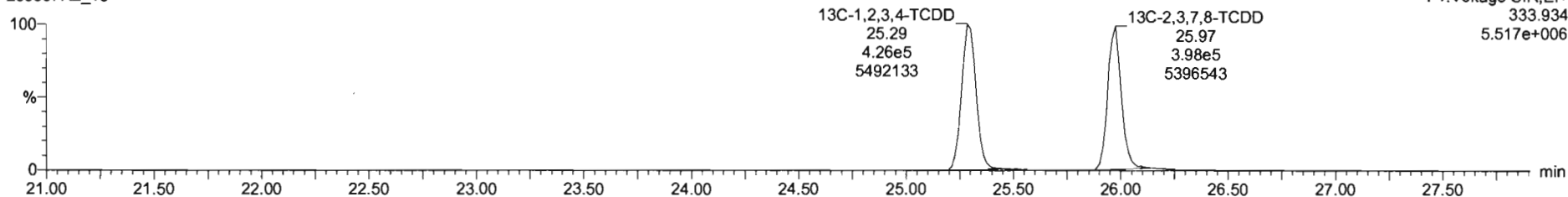


13C-1,2,3,4-TCDD

200507R2_15



200507R2_15



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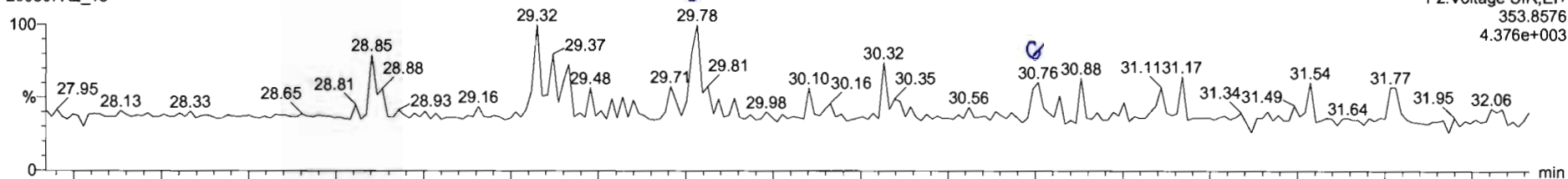
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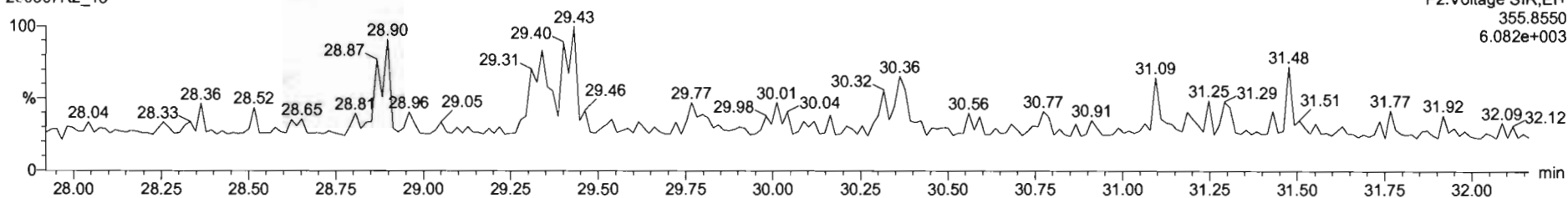
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1,2,3,7,8-PeCDD

200507R2_15

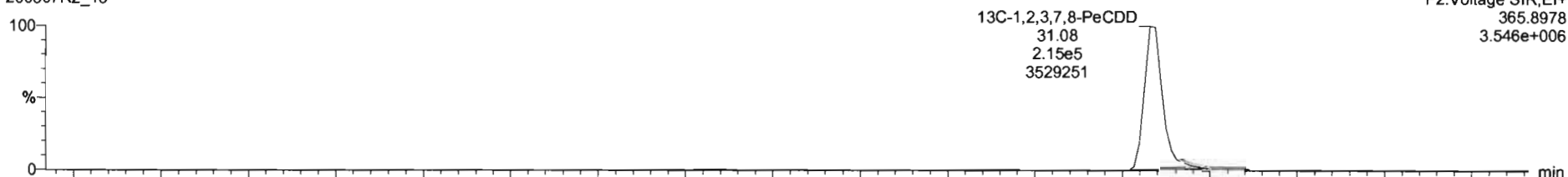


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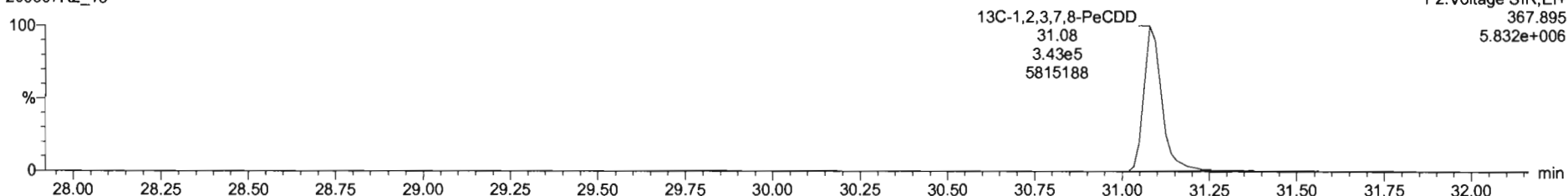


13C-1,2,3,7,8-PeCDD

200507R2_15



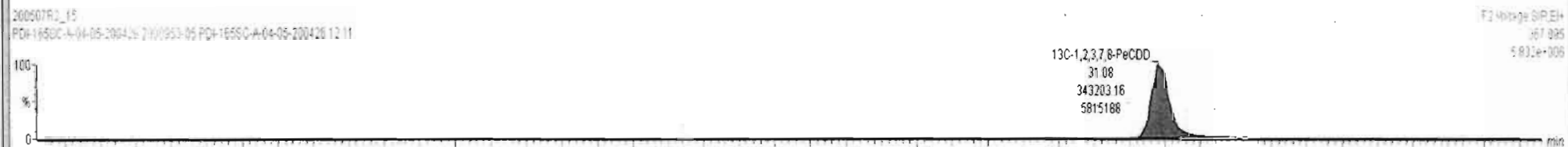
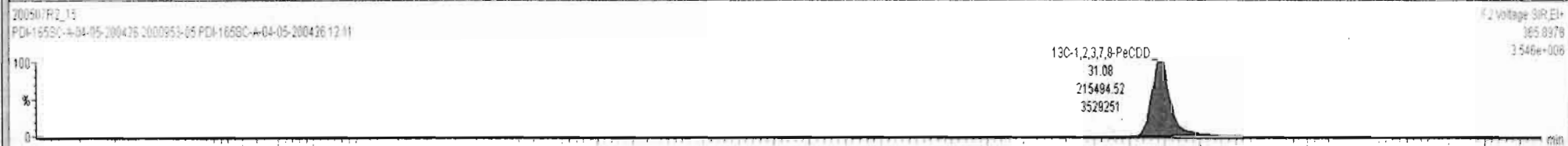
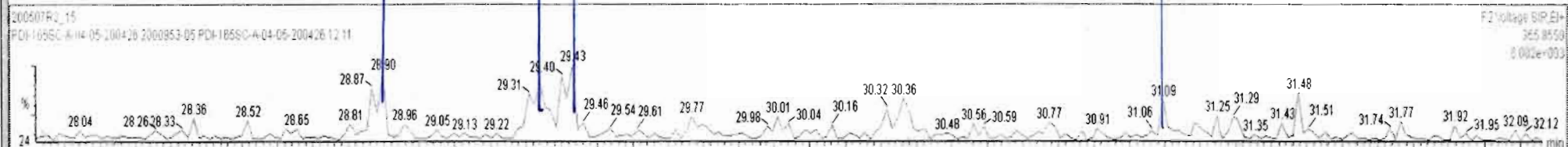
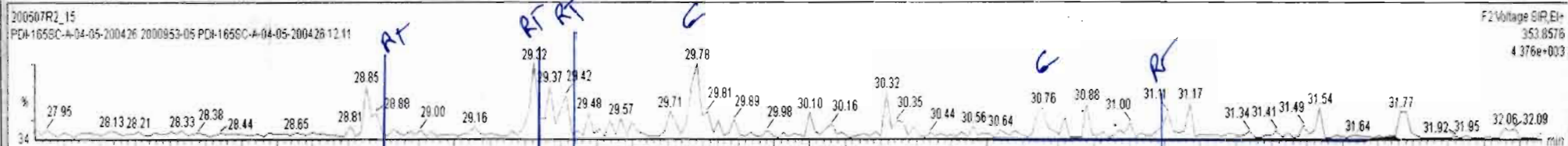
200507R2_15



200507R2_15 - 2000953-05 PDI-165SC-A-04-05-200426 12 11 - PDI-165SC-A-04-05-200426

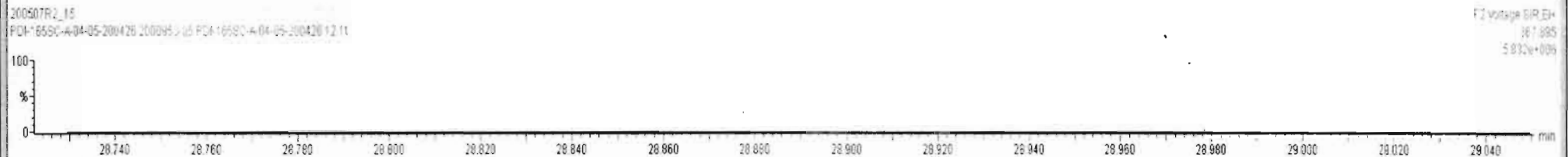
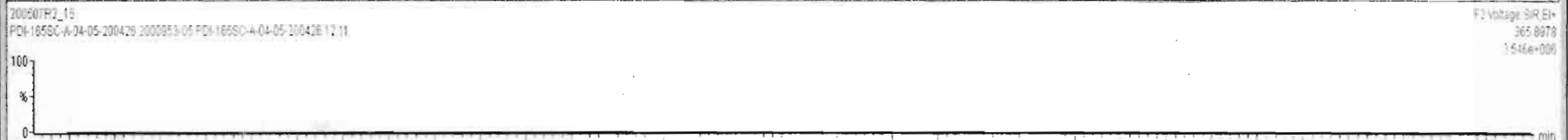
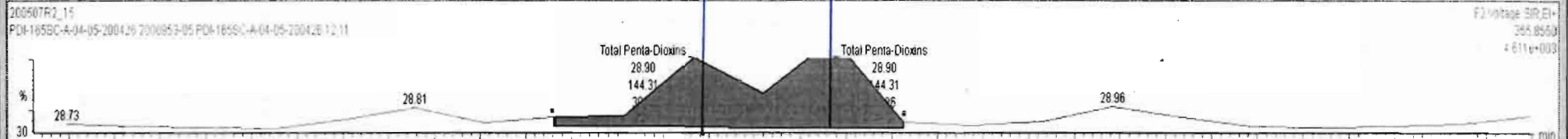
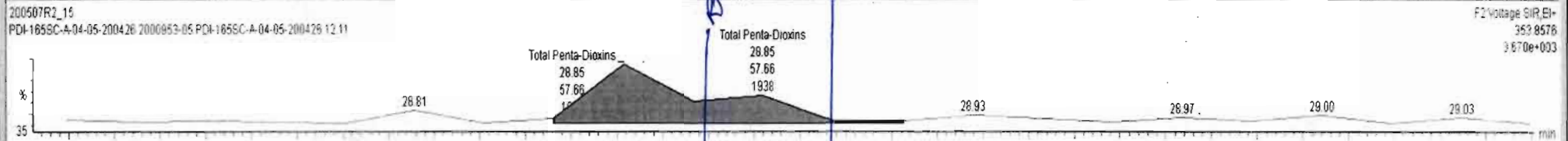
Name	Resp	RA	nly	RRF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.458			0.145	0.0767	0.145	
40 Total Penta-Dioxins				0.9425	10.458				0.0476		
41 Total Hexa-Dioxins				0.9145	10.458			0.438	0.117	1.24	
42 Total Hepta-Dioxins				0.8979	10.458			9.28	0.280	9.28	
43 Total Tetra-Furans				0.7871	10.458				0.0217		
44 1st Func. Penta-Furans				0.9102	10.458				0.0127		
45 Total Penta-Furans				0.9102	10.458				0.0128		

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



Name	Resp	RA	n/y	RF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.458			0.145		0.0767	0.145
40 Total Penta-Dioxins				0.9425	10.458			0.000		0.0476	0.0542
41 Total Hexa-Dioxins				0.9145	10.458			0.439		0.117	1.24
42 Total Hepta-Dioxins				0.8979	10.458			9.26		0.260	9.26
43 Total Tetra-Furans				0.7871	10.458					0.0217	
44 1st Func. Penta-Furans				0.9102	10.458					0.0127	
45 Total Penta-Furans				0.9102	10.458					0.0128	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
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Dataset: Untitled

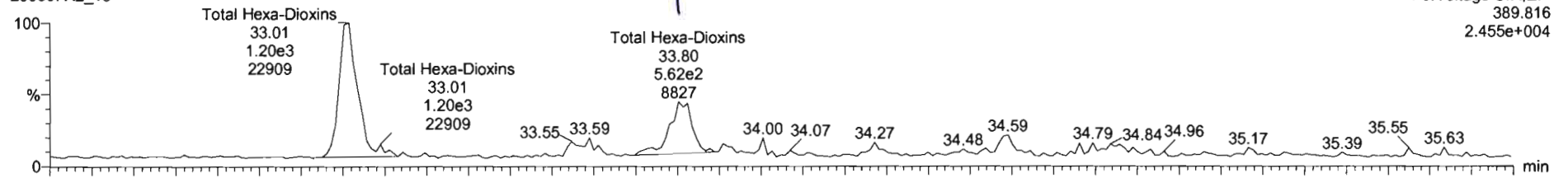
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Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

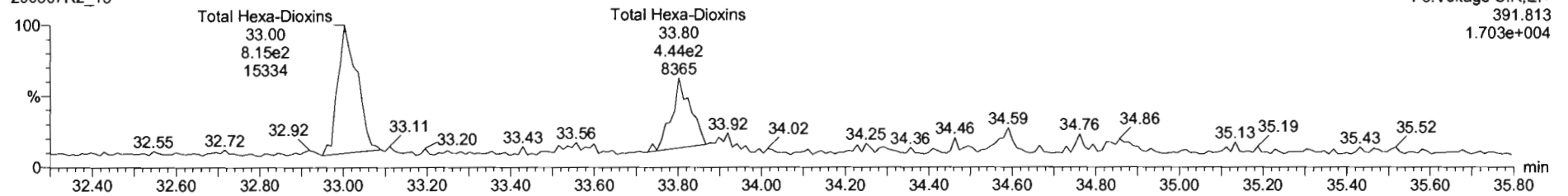
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1,2,3,4,7,8-HxCDD

200507R2_15

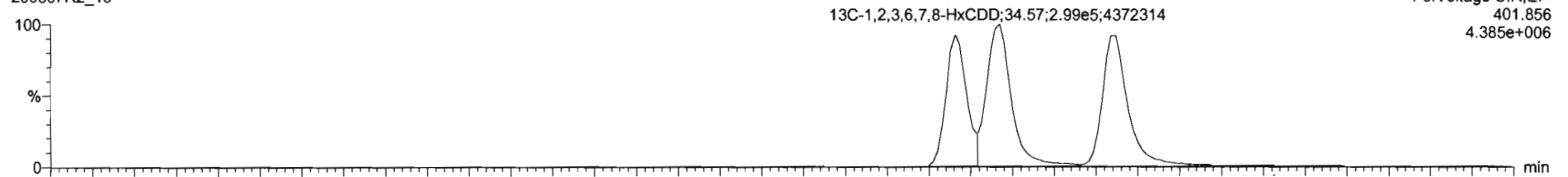


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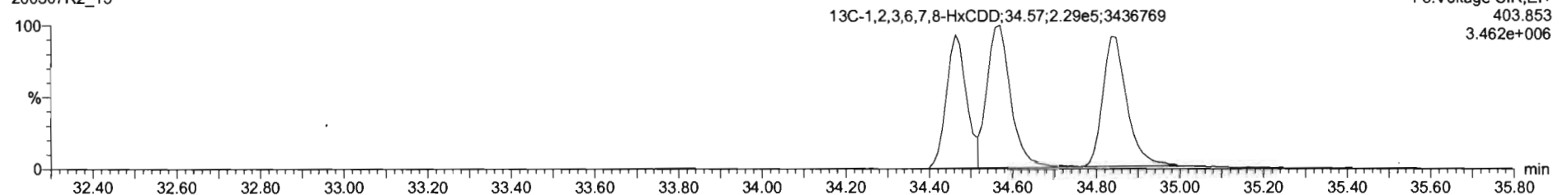


13C-1,2,3,4,7,8-HxCDD

200507R2_15



200507R2_15



Dataset: Untitled

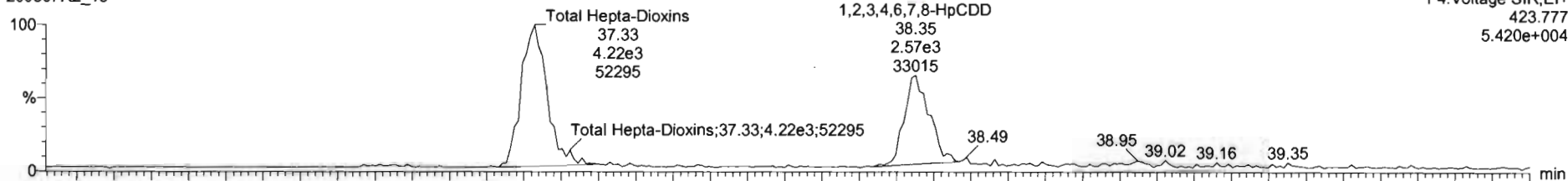
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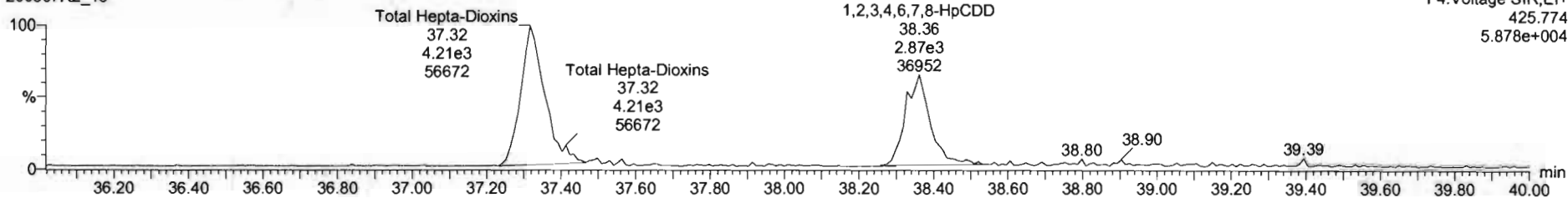
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1,2,3,4,6,7,8-HpCDD

200507R2_15

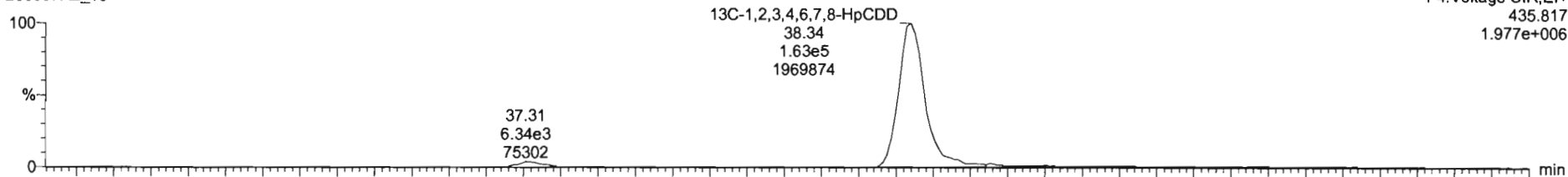


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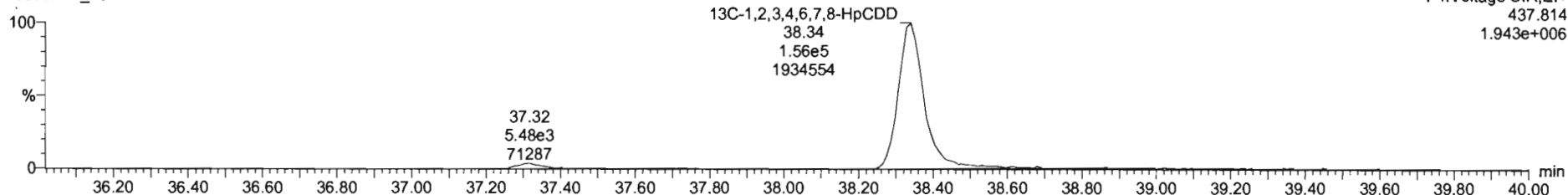


13C-1,2,3,4,6,7,8-HpCDD

200507R2_15

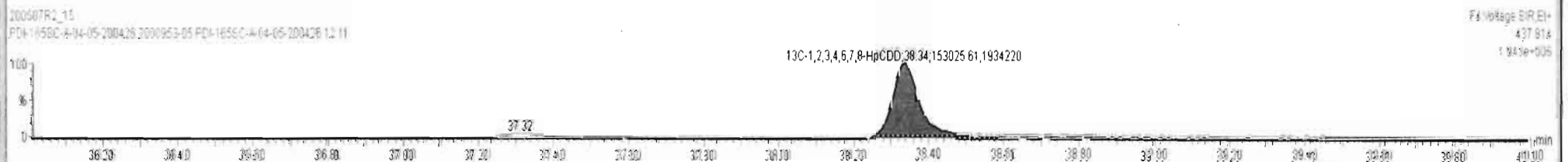
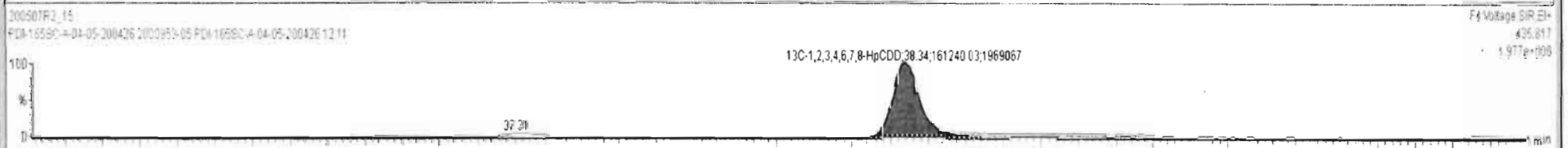
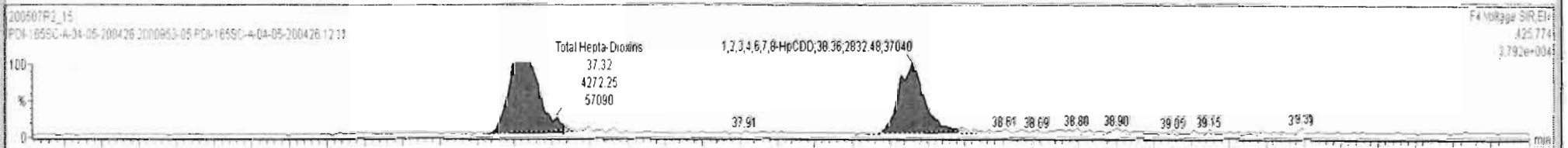
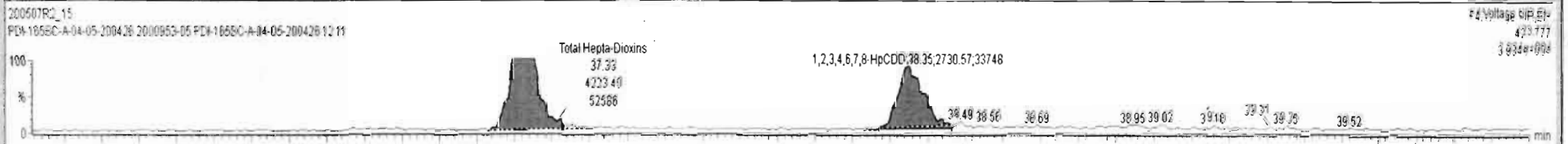


200507R2_15



Name	Resp	RA	n/y	RFf	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.458			0.145		0.0767	0.145
40 Total Penta-Dioxins				0.9425	10.458					0.0476	
41 Total Hexa-Dioxins				0.9145	10.458			1.33		0.117	1.33
42 Total Hepta-Dioxins				0.8879	10.458			9.53		0.282	9.53
43 Total Tetra-Furans				0.7871	10.458					0.0217	
44 1st Func. Penta-Furans				0.9102	10.458					0.0127	
45 Total Penta-Furans				0.9102	10.458					0.0128	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDD	38.35	2.731e3	2.832e3	0.96	NO	3.7704	3.7704
2 Total Hepta-Dioxins	37.33	4.223e3	4.272e3	0.99	NO	5.7579	5.7579

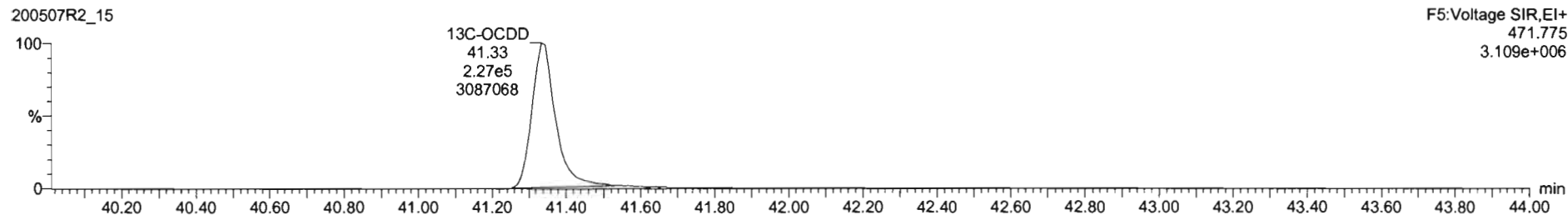
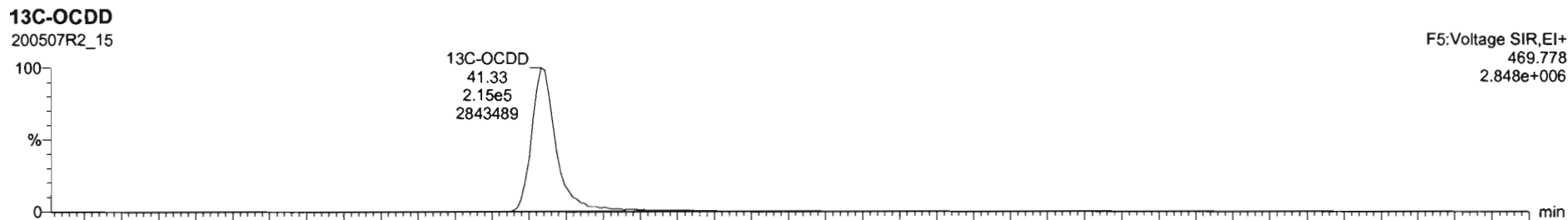
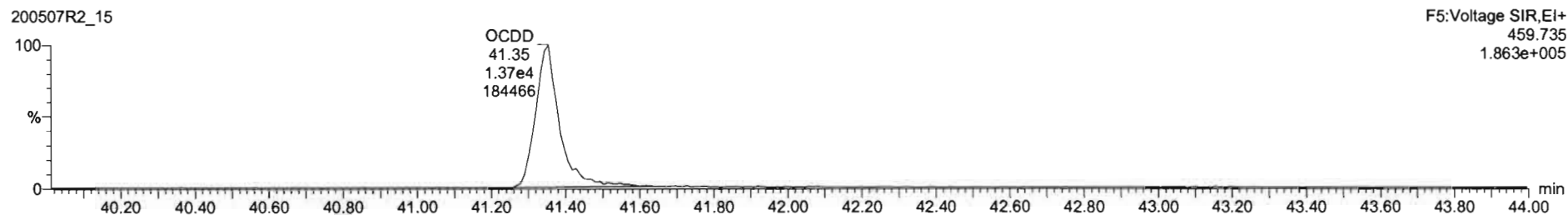
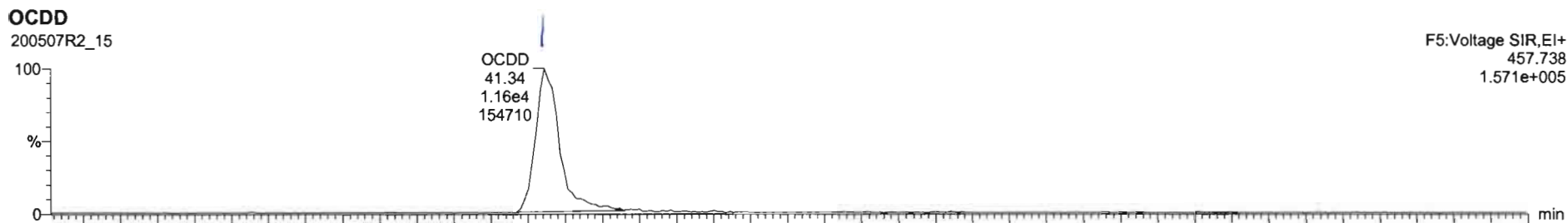


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Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_15, Date: 08-May-2020, Time: 01:20:05, ID: 2000953-05 PDI-165SC-A-04-05-200426 12.11, Description: PDI-165SC-A-04-05-200426



Dataset: Untitled

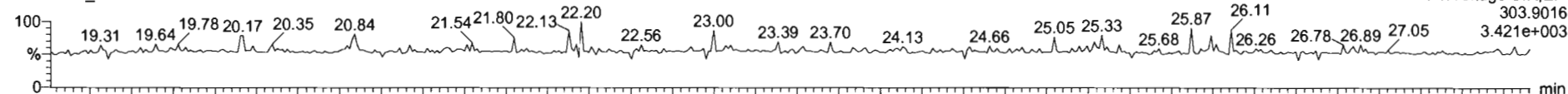
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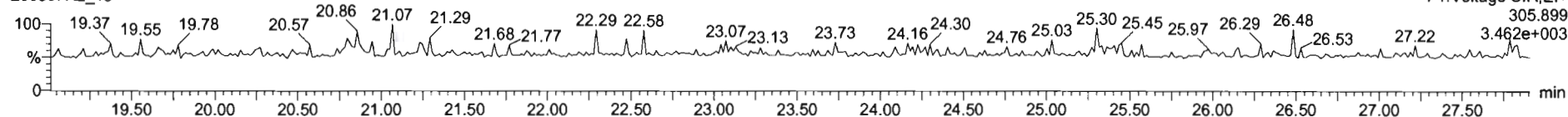
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2,3,7,8-TCDF

200507R2_15

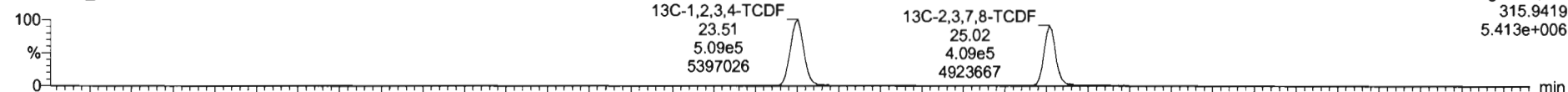


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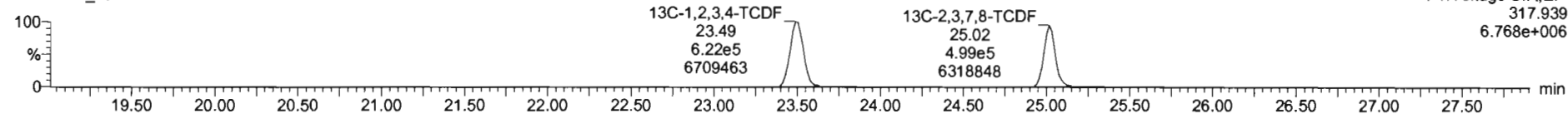


13C-2,3,7,8-TCDF

200507R2_15

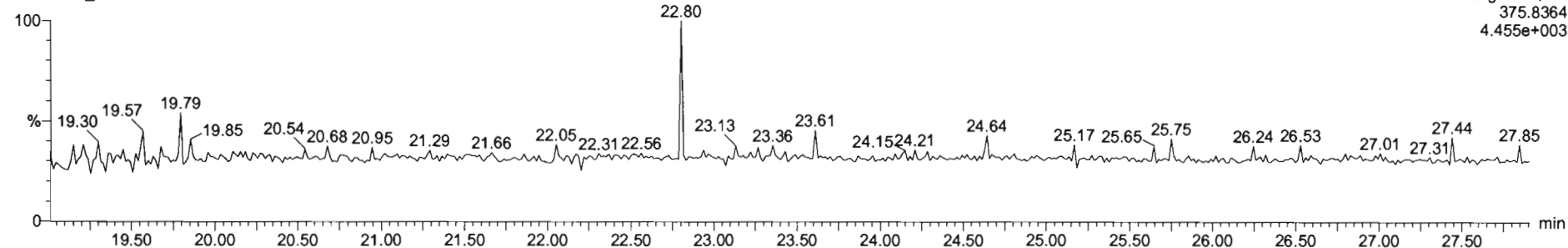


200507R2_15



DPE1

200507R2_15



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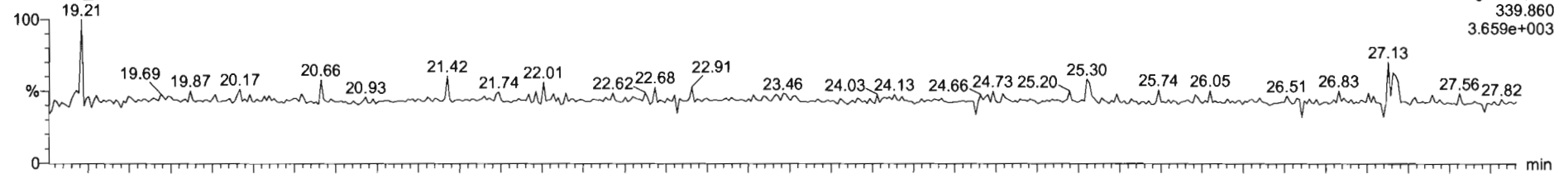
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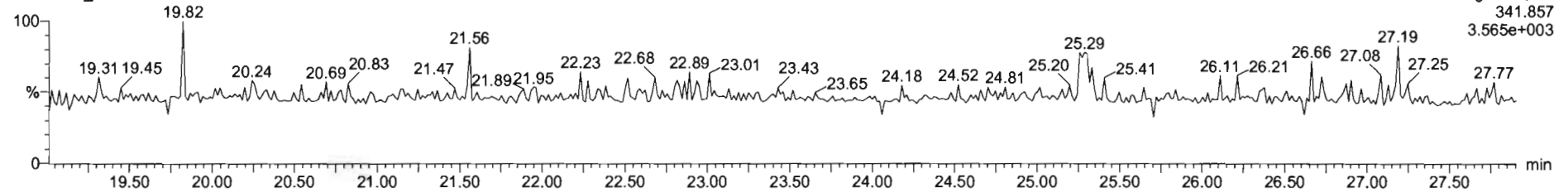
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1st Func. Penta-Furans

200507R2_15

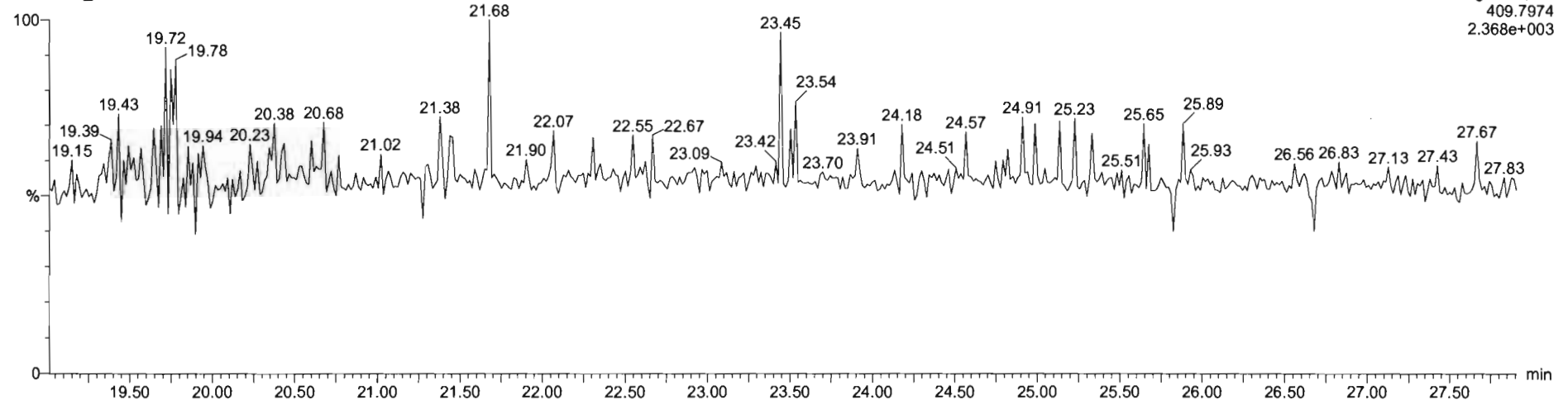


200507R2_15



DPE6

200507R2_15



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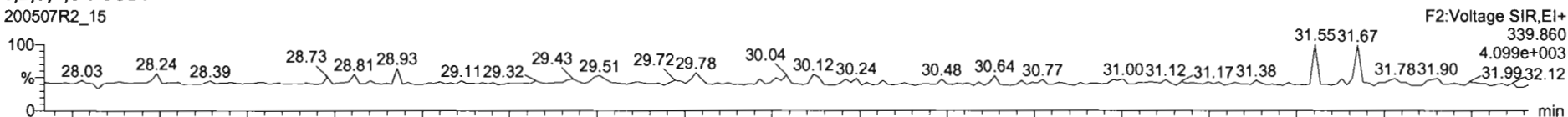
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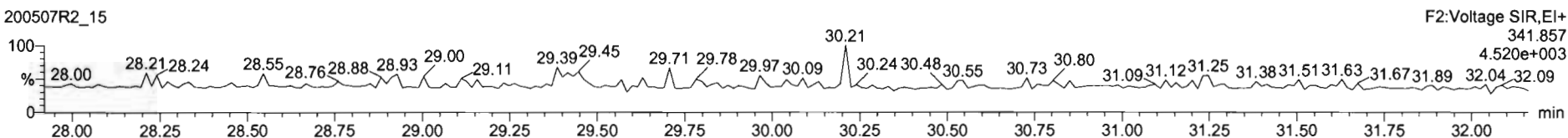
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1,2,3,7,8-PeCDF

200507R2_15

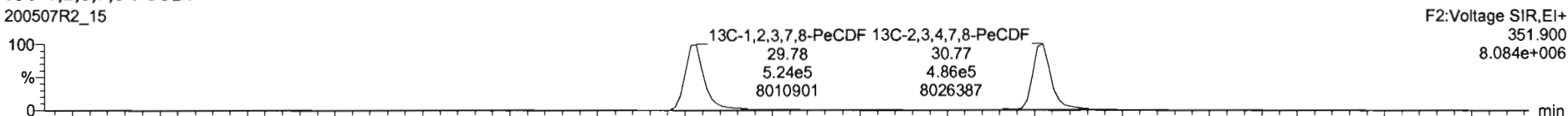


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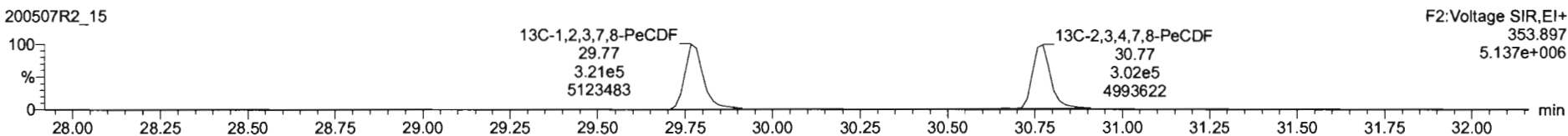


13C-1,2,3,7,8-PeCDF

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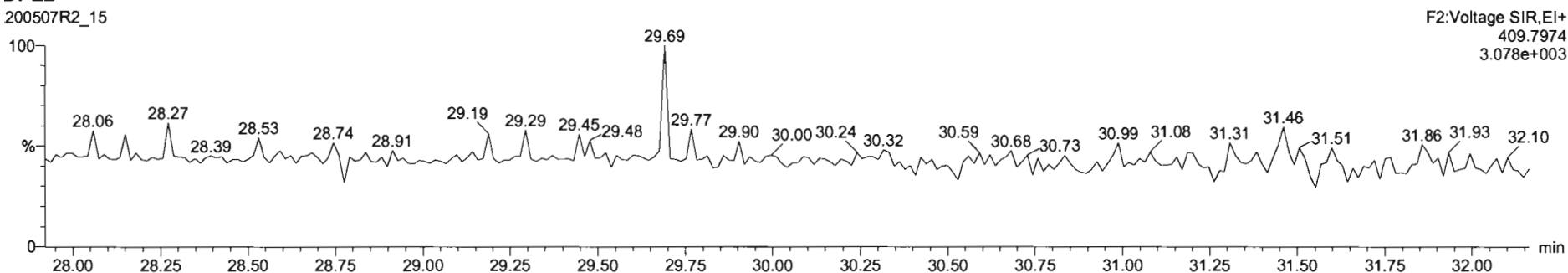


200507R2_15



DPE2

200507R2_15



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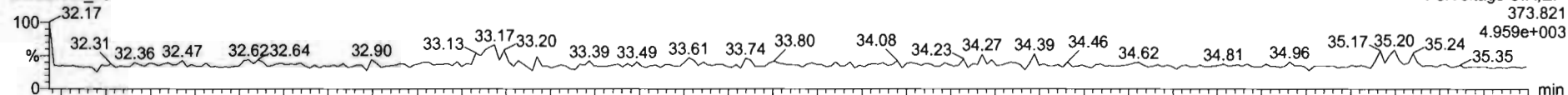
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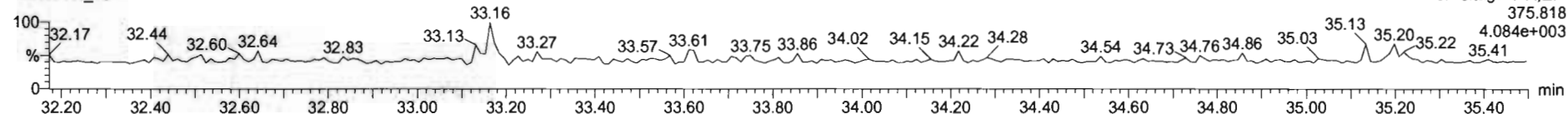
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1,2,3,4,7,8-HxCDF

200507R2_15

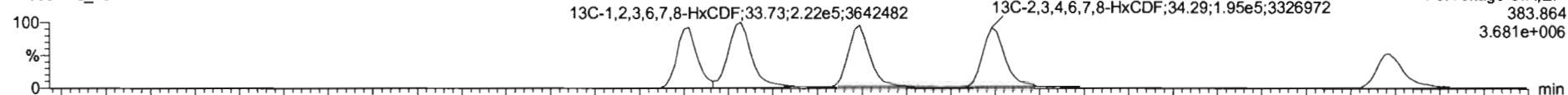


200507R2_15

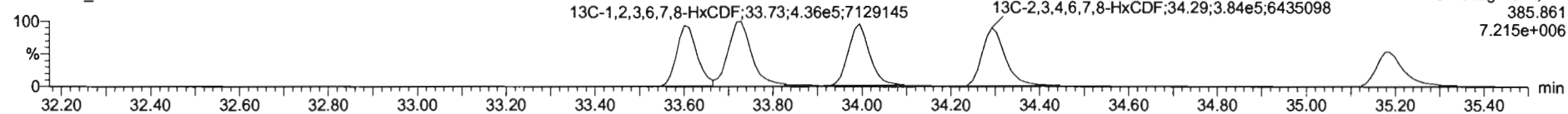


13C-1,2,3,4,7,8-HxCDF

200507R2_15

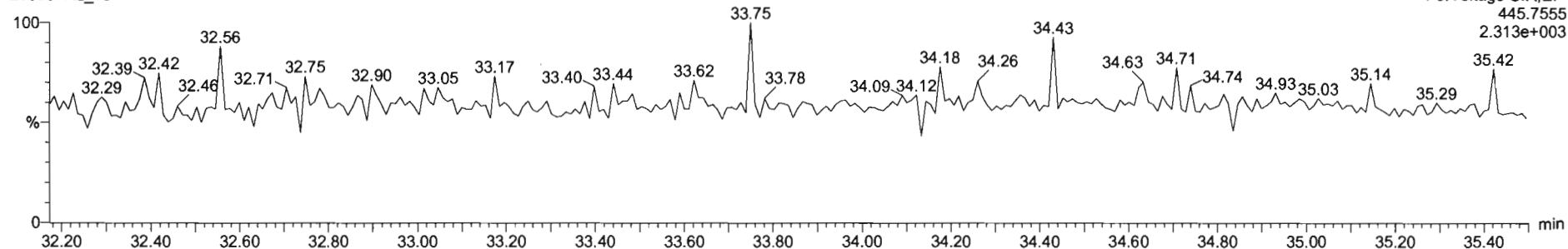


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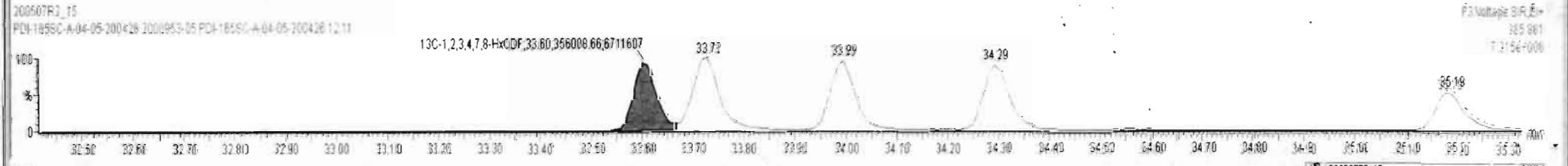
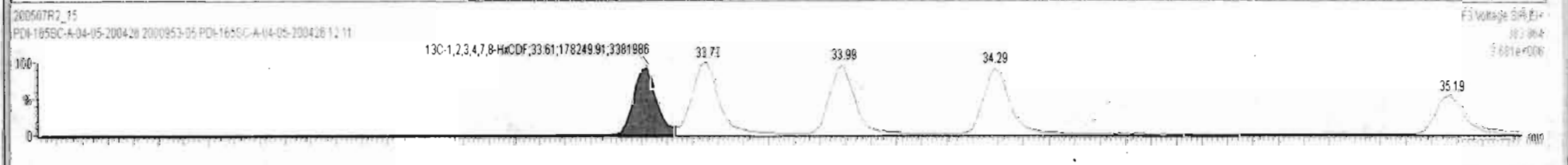
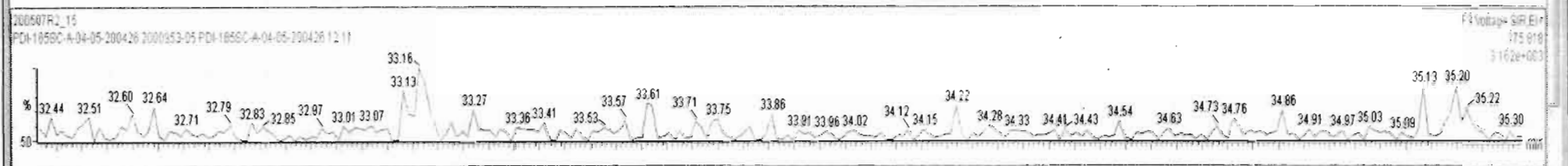
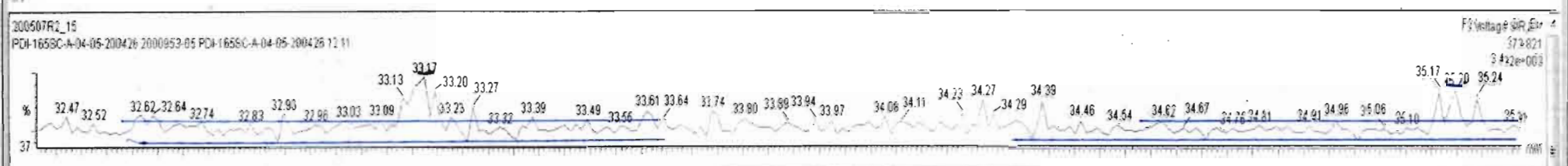
DPE3

200507R2_15



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.458					0.0217	
44 1st Func. Penta-Furans				0.9102	10.458					0.0127	
45 Total Penta-Furans				0.9102	10.458					0.0128	
46 Total Hexa-Furans				0.9217	10.458					0.0270	
47 Total Hepta-Furans				0.6712	10.458					0.0346	
48 PFK1											
49 PFK2											

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



Dataset: Untitled

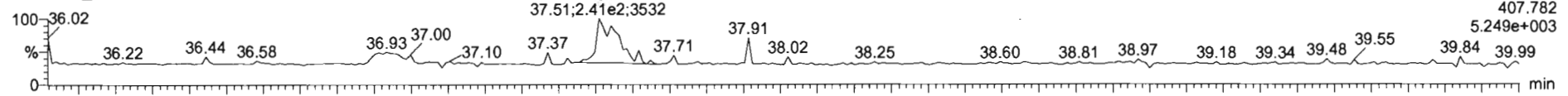
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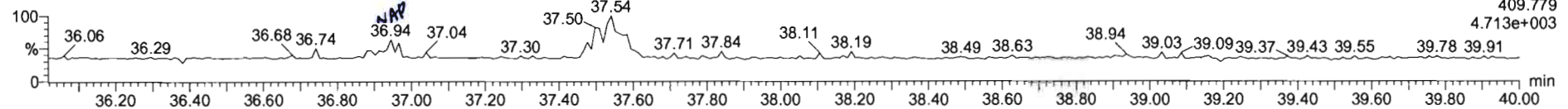
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1,2,3,4,6,7,8-HpCDF

200507R2_15

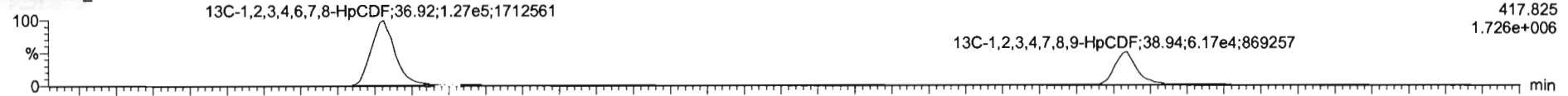


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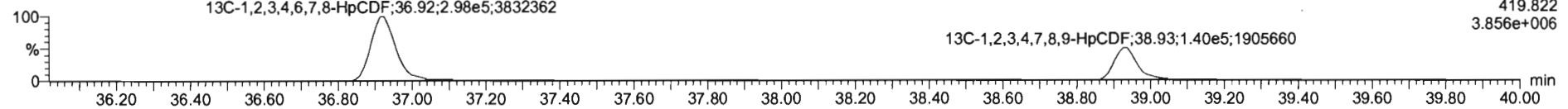


13C-1,2,3,4,6,7,8-HpCDF

200507R2_15

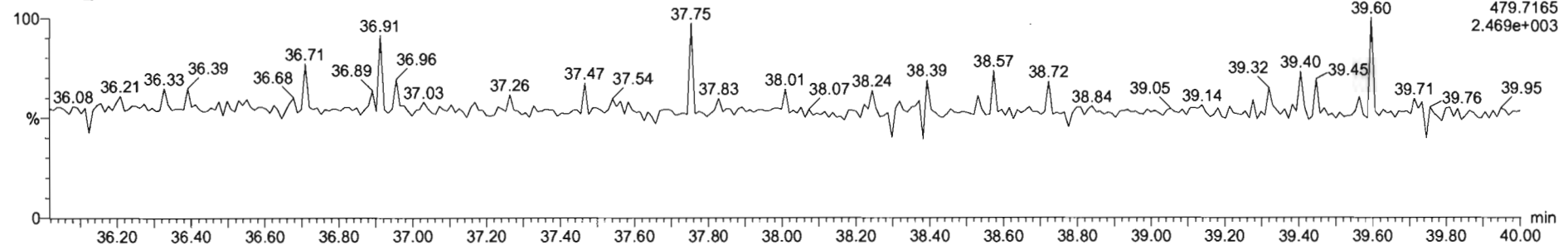


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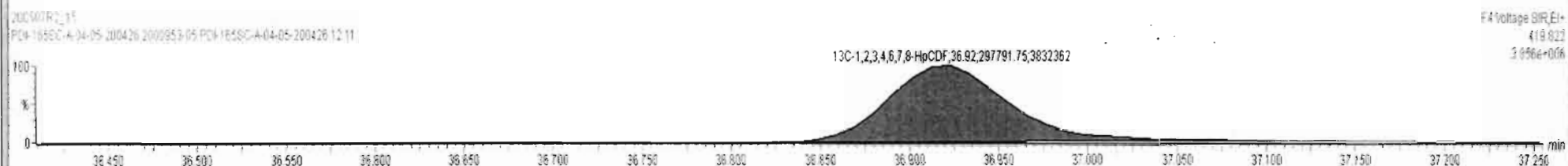
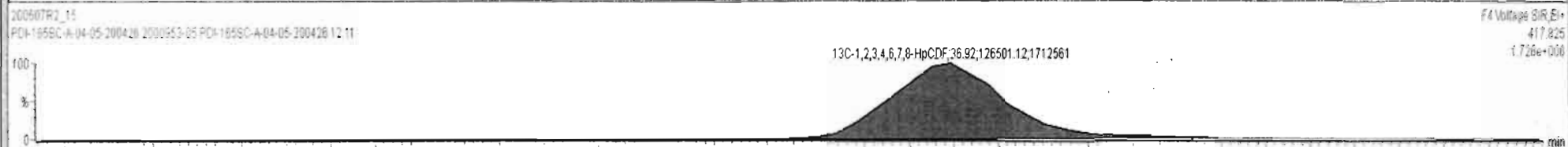
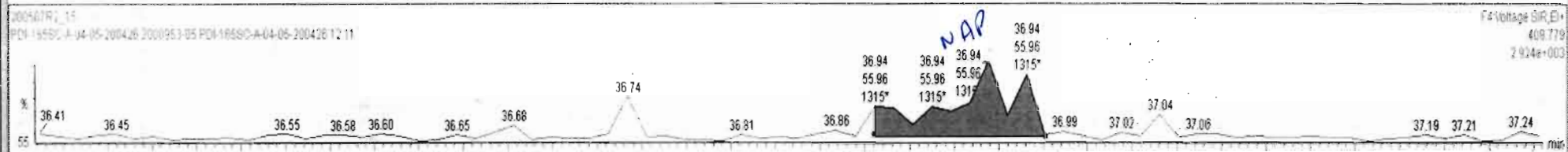
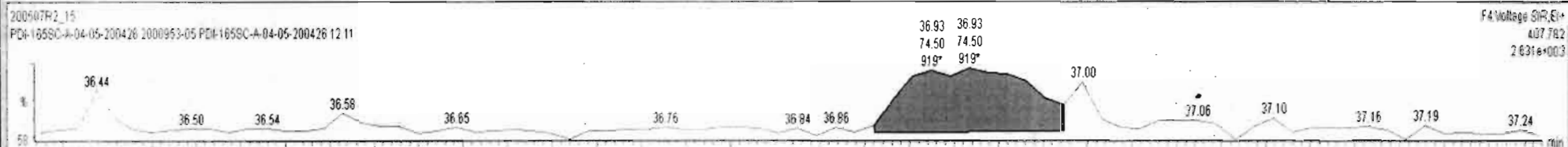
DPE4

200507R2_15



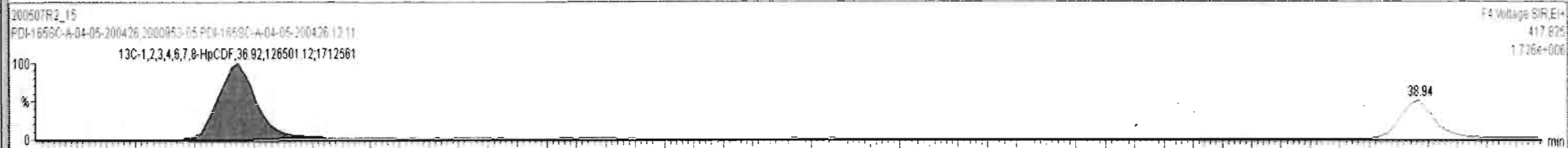
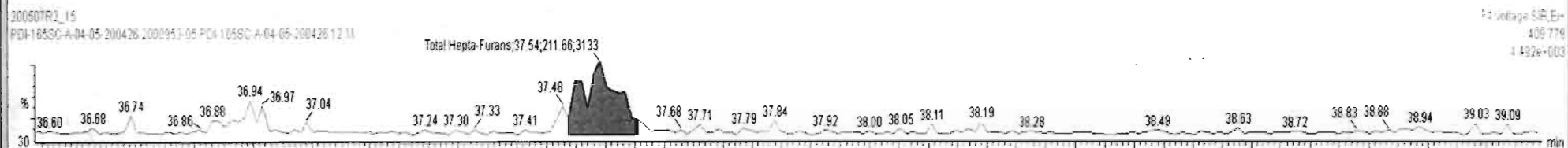
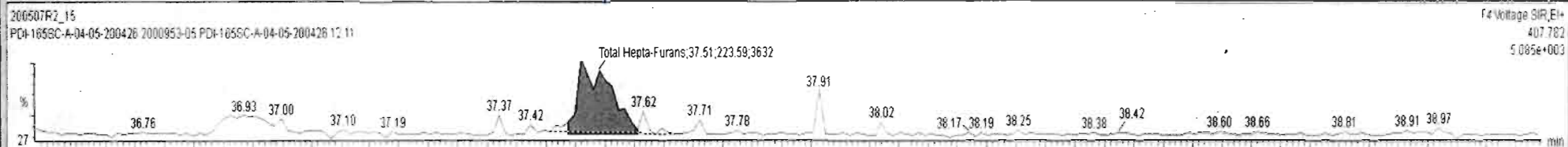
Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.458					0.0217	
44 1st Func. Penta-Furans				0.9102	10.458					0.0127	
45 Total Penta-Furans				0.9102	10.458					0.0128	
46 Total Hexa-Furans				0.9217	10.458					0.0270	
47 Total Hepta-Furans				0.8712	10.458					0.0346	
48 PFK1											
49 PFK2											

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



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.458					0.0217	
44 1st Func. Penta-Furans				0.9102	10.458					0.0127	
45 Total Penta-Furans				0.9102	10.458					0.0128	
46 Total Hexa-Furans				0.9217	10.458					0.0270	
47 Total Hepta-Furans				0.8712	10.458			0.305		0.0346	0.305
48 PFK1											
49 PFK2											

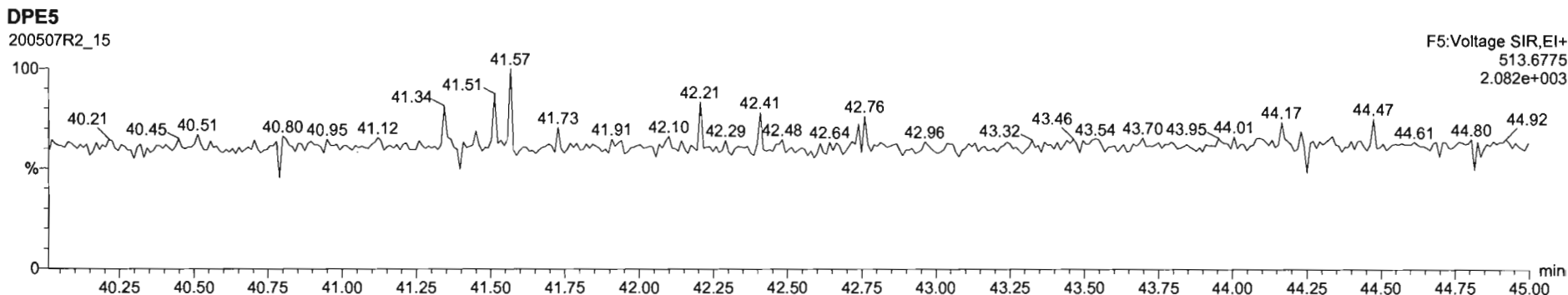
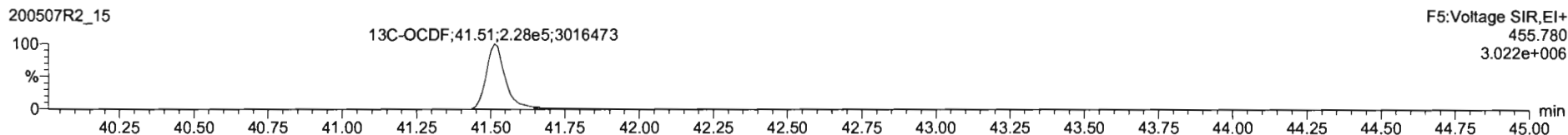
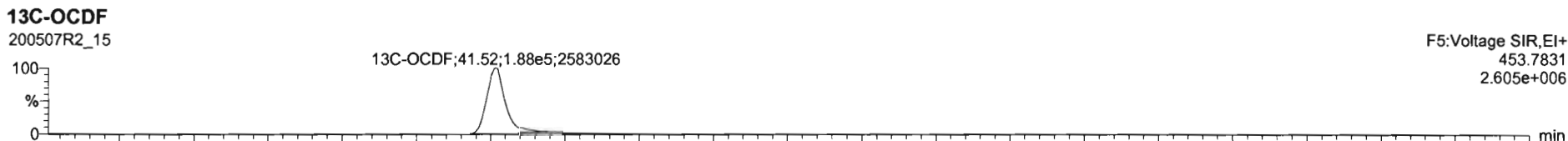
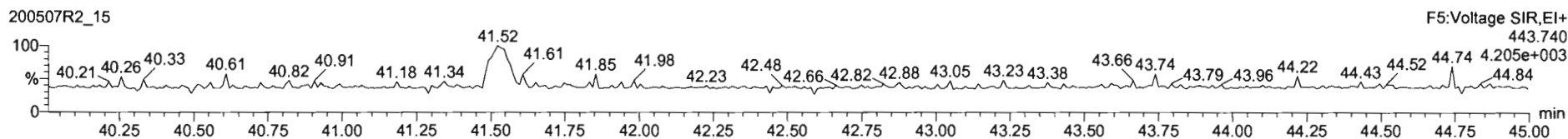
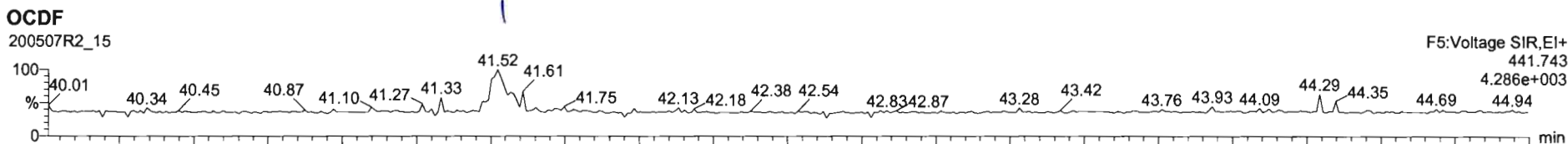
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hepta-Furans	37.51	2.236e2	2.117e2	1.06	NO	0.30543	0.30543



Dataset: Untitled

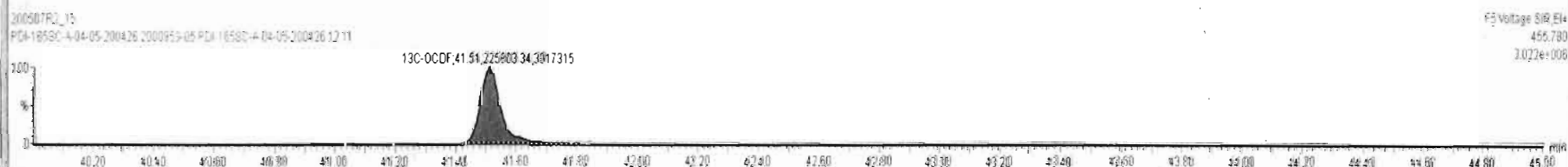
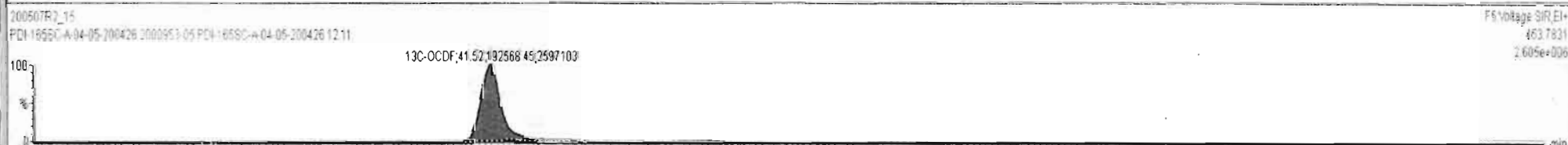
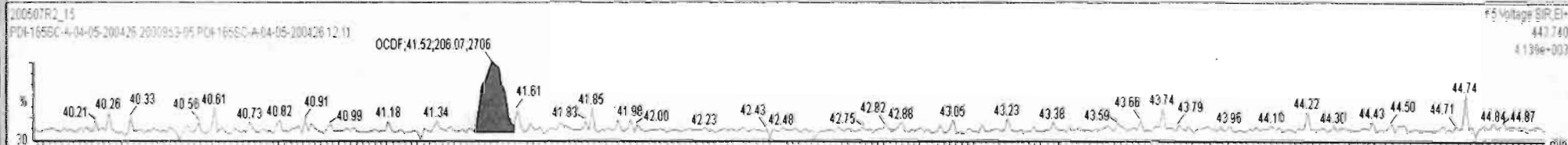
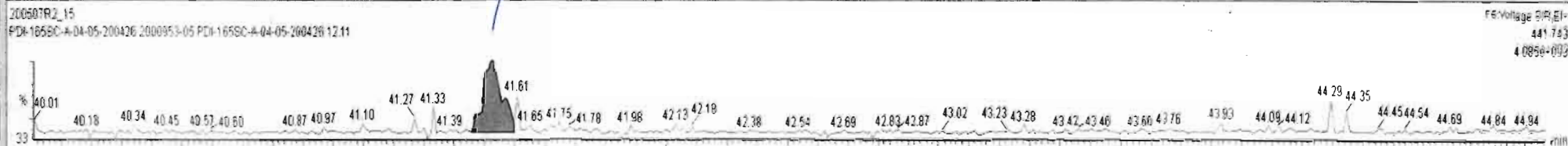
Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_15, Date: 08-May-2020, Time: 01:20:05, ID: 2000953-05 PDI-165SC-A-04-05-200426 12.11, Description: PDI-165SC-A-04-05-200426



#	Name	Resp	RA	n/y	RF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
17	OCDF	3.93e2	0.90	NO	0.8021	10.458	41.52	1.000	0.447		0.125	0.447
18	13C-2,3,7,8-TCDD	7.09e5	0.78	NO	1.1595	10.458	25.98	1.027	154	80.6		0.335
19	13C-1,2,3,7,8-PeCDD	5.59e5	0.63	NO	0.8472	10.458	31.08	1.229	166	86.9		0.604
20	13C-1,2,3,4,7,8-HxCDD	4.11e5	1.28	NO	0.7499	10.458	34.46	1.014	184	96.3		0.763
21	13C-1,2,3,6,7,8-HxCDD	5.28e5	1.31	NO	0.9630	10.458	34.57	1.017	184	96.2		0.594
22	13C-1,2,3,7,8,9-HxCDD	4.97e5	1.37	NO	0.8376	10.458	34.85	1.025	199	104		0.683
23	13C-1,2,3,4,6,7,8-HxCDD	3.14e5	1.05	NO	0.6415	10.458	38.34	1.128	164	86.0		0.953

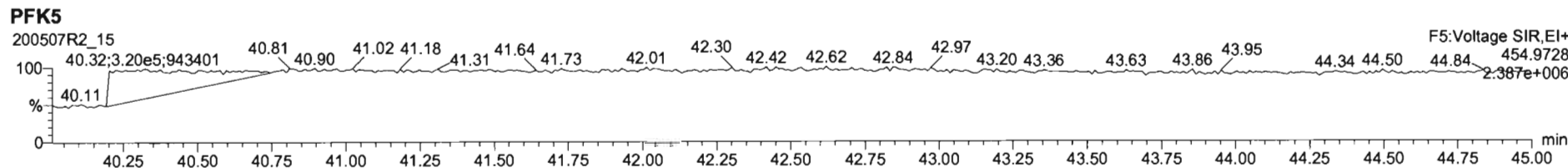
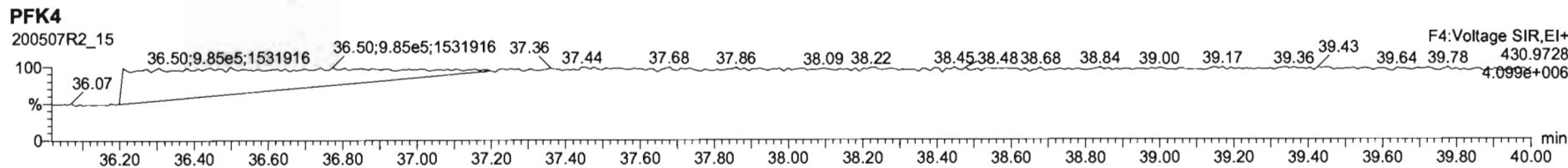
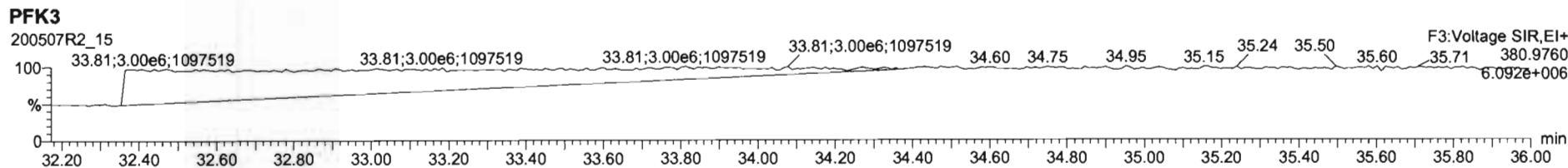
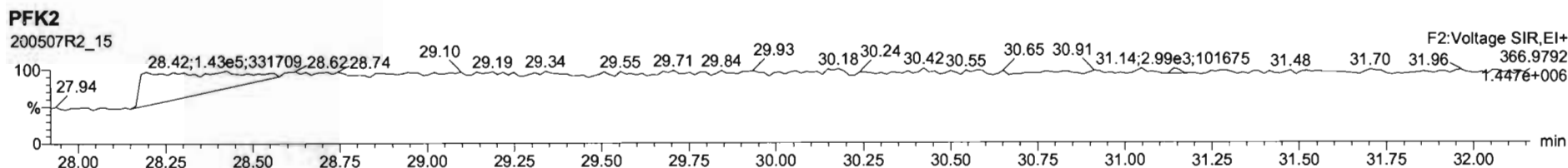
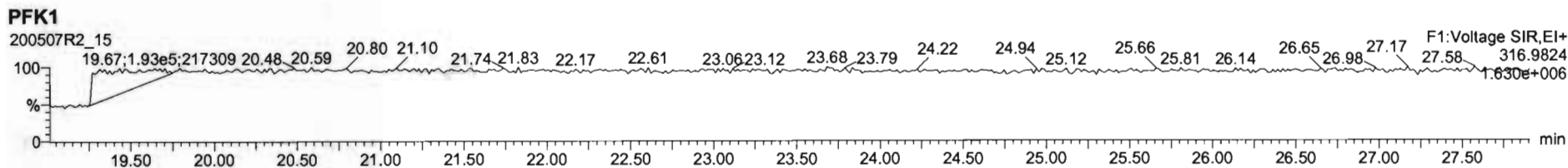
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1								



Dataset: Untitled

Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_15, Date: 08-May-2020, Time: 01:20:05, ID: 2000953-05 PDI-165SC-A-04-05-200426 12.11, Description: PDI-165SC-A-04-05-200426



Dataset: U:\VG12.PRO\Results\200507R2\200507R2-16.qld

Last Altered: Friday, May 08, 2020 10:45:19 Pacific Daylight Time

Printed: Friday, May 08, 2020 10:55:13 Pacific Daylight Time

July 05-08-2020

07/05/15/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200507R2_16, Date: 08-May-2020, Time: 02:06:17, ID: 2000953-06 PDI-165SC-A-05-06-200426 12.02, Description: PDI-165SC-A-05-06-200426

#	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	0.947	10.140	25.991		1.001				0.0717	
2	2 1,2,3,7,8-PeCDD	3.18e2	1.36	YES	0.942	10.140	31.086	31.09	1.001	1.001	0.10613		0.138	0.0734
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.140	34.462		1.000				0.115	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.140	34.548		1.000				0.114	
5	5 1,2,3,7,8,9-HxCDD	4.65e2	1.35	NO	0.915	10.140	34.835	34.85	1.000	1.001	0.21994		0.146	0.220
6	6 1,2,3,4,6,7,8-HpCDD	1.08e3	1.14	NO	0.898	10.140	38.340	38.36	1.000	1.001	0.74388		0.144	0.744
7	7 OCDD	5.70e3	0.93	NO	0.933	10.140	41.322	41.33	1.000	1.000	5.4195		0.183	5.42
8	8 2,3,7,8-TCDF			NO	0.787	10.140	25.042		1.001				0.0369	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.140	29.788		1.001				0.0420	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.140	30.789		1.001				0.0382	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.140	33.589		1.000				0.0384	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.140	33.717		1.000				0.0360	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.140	34.316		1.001				0.0415	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.140	35.176		1.000				0.0740	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.140	36.949		1.001				0.0468	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.140	38.915		1.000				0.0729	
17	17 OCDF			NO	0.802	10.140	41.503		1.000				0.130	
18	18 13C-2,3,7,8-TCDD	8.84e5	0.82	NO	1.16	10.140	25.954	25.96	1.026	1.027	197.19	100	0.349	
19	19 13C-1,2,3,7,8-PeCDD	6.27e5	0.65	NO	0.847	10.140	31.031	31.06	1.227	1.229	191.30	97.0	0.540	
20	20 13C-1,2,3,4,7,8-HxCDD	4.27e5	1.36	NO	0.750	10.140	34.463	34.45	1.014	1.014	195.56	99.1	0.887	
21	21 13C-1,2,3,6,7,8-HxCDD	5.37e5	1.24	NO	0.963	10.140	34.575	34.55	1.017	1.017	191.53	97.1	0.690	
22	22 13C-1,2,3,7,8,9-HxCDD	4.55e5	1.28	NO	0.838	10.140	34.844	34.83	1.025	1.025	186.79	94.7	0.794	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.19e5	1.06	NO	0.641	10.140	38.331	38.33	1.128	1.128	170.81	86.6	1.12	
24	24 13C-OCDD	4.45e5	0.93	NO	0.586	10.140	41.321	41.32	1.216	1.216	260.59	66.1	0.631	
25	25 13C-2,3,7,8-TCDF	1.17e6	0.78	NO	1.03	10.140	25.015	25.02	0.989	0.989	189.74	96.2	0.451	
26	26 13C-1,2,3,7,8-PeCDF	9.58e5	1.60	NO	0.845	10.140	29.724	29.77	1.176	1.177	190.49	96.6	0.825	
27	27 13C-2,3,4,7,8-PeCDF	9.36e5	1.69	NO	0.814	10.140	30.712	30.76	1.215	1.216	193.27	98.0	0.856	
28	28 13C-1,2,3,4,7,8-HxCDF	5.87e5	0.50	NO	1.00	10.140	33.603	33.59	0.989	0.988	200.66	102	0.997	
29	29 13C-1,2,3,6,7,8-HxCDF	6.90e5	0.51	NO	1.14	10.140	33.726	33.71	0.992	0.992	208.62	106	0.881	
30	30 13C-2,3,4,6,7,8-HxCDF	5.90e5	0.51	NO	1.02	10.140	34.293	34.28	1.009	1.009	198.37	101	0.980	
31	31 13C-1,2,3,7,8,9-HxCDF	4.38e5	0.50	NO	0.845	10.140	35.184	35.18	1.035	1.035	177.94	90.2	1.19	

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-16.qld

Last Altered: Friday, May 08, 2020 10:45:19 Pacific Daylight Time

Printed: Friday, May 08, 2020 10:55:13 Pacific Daylight Time

Name: 200507R2_16, Date: 08-May-2020, Time: 02:06:17, ID: 2000953-06 PDI-165SC-A-05-06-200426 12.02, Description: PDI-165SC-A-05-06-200426

#	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	4.27e5	0.43	NO	0.771	10.140	36.913	36.91	1.086	1.086	190.41	96.5	1.08	
33	13C-1,2,3,4,7,8,9-HpCDF	2.14e5	0.42	NO	0.482	10.140	38.922	38.92	1.145	1.145	152.35	77.2	1.73	
34	13C-OCDF	4.34e5	0.86	NO	0.669	10.140	41.491	41.50	1.221	1.221	223.05	56.5	0.371	
35	37Cl-2,3,7,8-TCDD	3.29e5			1.10	10.140	25.984	25.99	1.028	1.028	77.429	98.1	0.0616	
36	13C-1,2,3,4-TCDD	7.63e5	0.78	NO	1.00	10.140	25.350	25.29	1.000	1.000	197.24	100	0.405	
37	13C-1,2,3,4-TCDF	1.17e6	0.79	NO	1.00	10.140	23.560	23.50	1.000	1.000	197.24	100	0.467	
38	13C-1,2,3,4,6,9-HxCDF	5.74e5	0.51	NO	1.00	10.140	34.000	33.98	1.000	1.000	197.24	100	1.00	
39	Total Tetra-Dioxins				0.947	10.140	24.620		0.000		0.20414		0.0717	0.204
40	Total Penta-Dioxins				0.942	10.140	29.960		0.000		0.27992		0.138	0.353
41	Total Hexa-Dioxins				0.915	10.140	33.635		0.000		1.0831		0.130	1.54
42	Total Hepta-Dioxins				0.898	10.140	37.640		0.000		2.2276		0.144	2.23
43	Total Tetra-Furans				0.787	10.140	23.610		0.000				0.0131	
44	1st Func. Penta-Furans				0.910	10.140	27.090		0.000				0.0109	
45	Total Penta-Furans				0.910	10.140	29.275		0.000				0.0211	
46	Total Hexa-Furans				0.922	10.140	33.555		0.000				0.0218	
47	Total Hepta-Furans				0.871	10.140	37.835		0.000				0.0308	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-16.qld

Last Altered: Friday, May 08, 2020 10:45:19 Pacific Daylight Time

Printed: Friday, May 08, 2020 10:55:13 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200507R2_16, Date: 08-May-2020, Time: 02:06:17, ID: 2000953-06 PDI-165SC-A-05-06-200426 12.02, Description: PDI-165SC-A-05-06-200426

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.70	5.814e3	6.994e3	3.563e2	5.110e2	0.70	NO	8.673e2	0.20414	0.20414	0.0717

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.84	3.115e3	5.104e3	1.551e2	2.298e2	0.67	NO	3.849e2	0.12848	0.12848	0.138
2	Total Penta-Dioxins	29.32	3.392e3	4.212e3	1.641e2	2.896e2	0.57	NO	4.537e2	0.15144	0.15144	0.138
3	1,2,3,7,8-PeCDD	31.09	4.510e3	3.647e3	1.831e2	1.349e2	1.36	YES	3.179e2	0.00000	0.073377	0.138

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.98	2.274e4	1.411e4	1.068e3	8.253e2	1.29	NO	1.893e3	0.86318	0.86318	0.130
2	Total Hexa-Dioxins	33.78	1.031e4	1.033e4	5.551e2	5.379e2	1.03	YES	0.000e0	0.00000	0.45722	0.130
3	1,2,3,7,8,9-HxCDD	34.85	5.567e3	4.135e3	2.672e2	1.974e2	1.35	NO	4.646e2	0.21994	0.21994	0.146

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.32	1.525e4	1.367e4	1.130e3	1.024e3	1.10	NO	2.154e3	1.4837	1.4837	0.144
2	1,2,3,4,6,7,8-HpCDD	38.36	7.267e3	6.425e3	5.756e2	5.045e2	1.14	NO	1.080e3	0.74388	0.74388	0.144

Tetra-Furans

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

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-16.qld

Last Altered: Friday, May 08, 2020 10:45:19 Pacific Daylight Time
Printed: Friday, May 08, 2020 10:55:13 Pacific Daylight Time

Name: 200507R2_16, Date: 08-May-2020, Time: 02:06:17, ID: 2000953-06 PDI-165SC-A-05-06-200426 12.02, Description: PDI-165SC-A-05-06-200426

Penta-Furans function 1

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

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

Dataset: Untitled

Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time

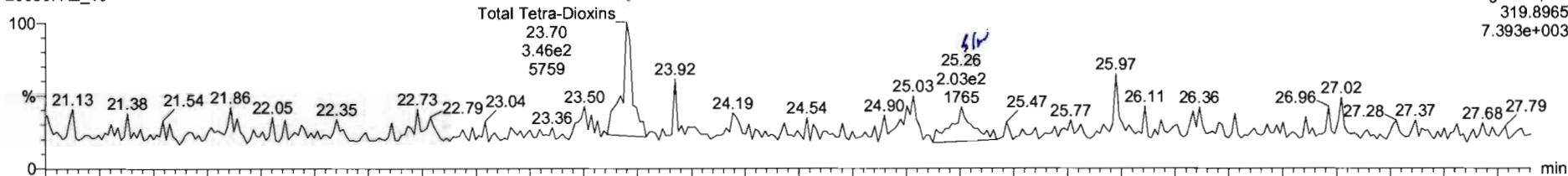
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05-08-2020

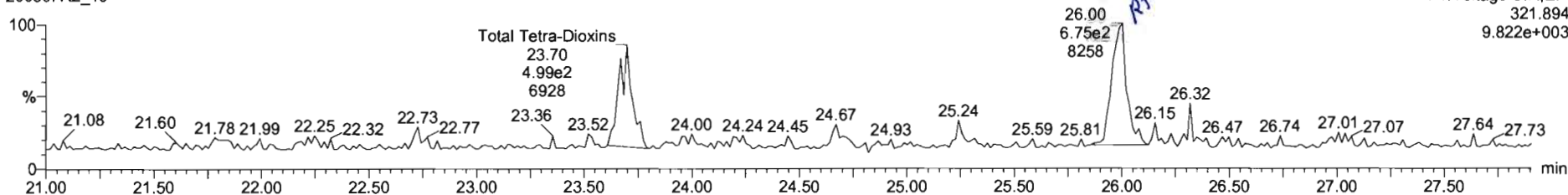
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2,3,7,8-TCDD

200507R2_16

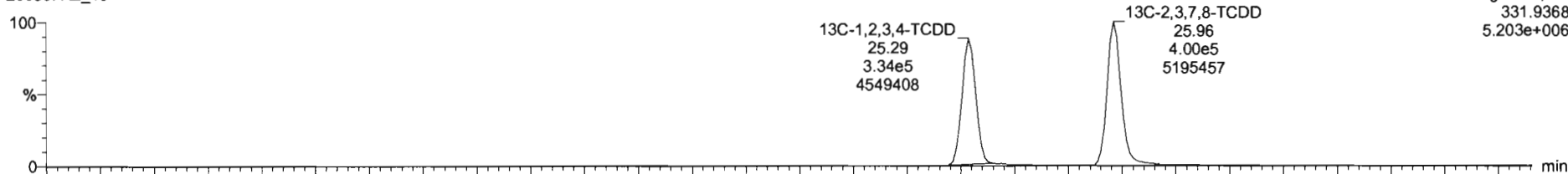


200507R2_16

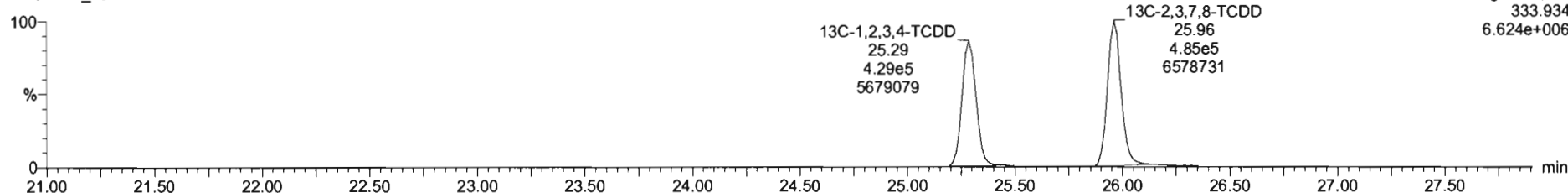


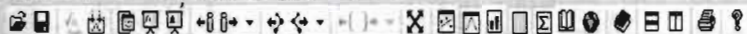
13C-2,3,7,8-TCDD

200507R2_16



200507R2_16

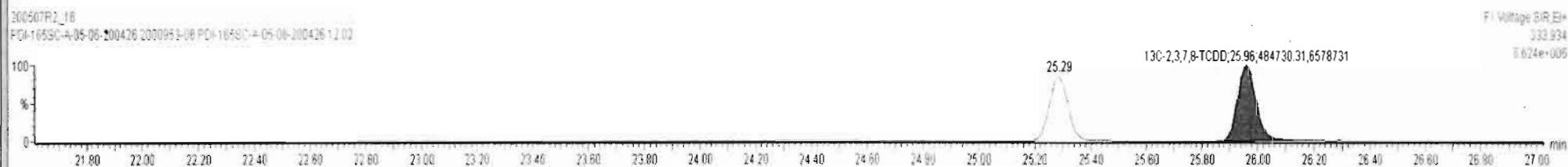
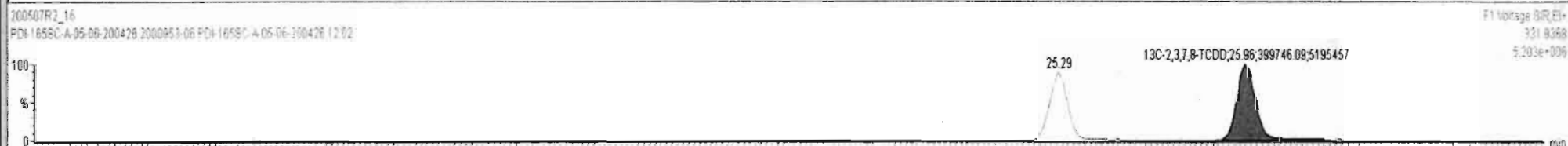
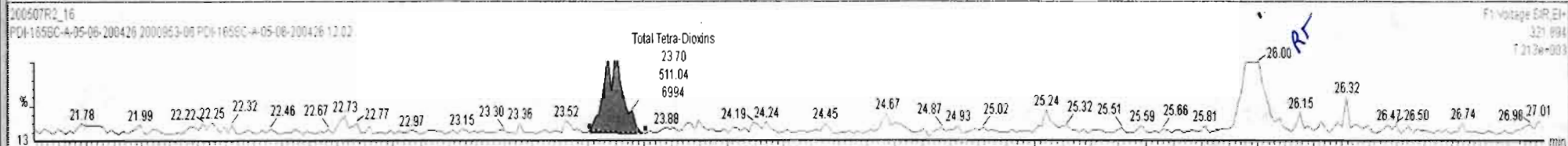
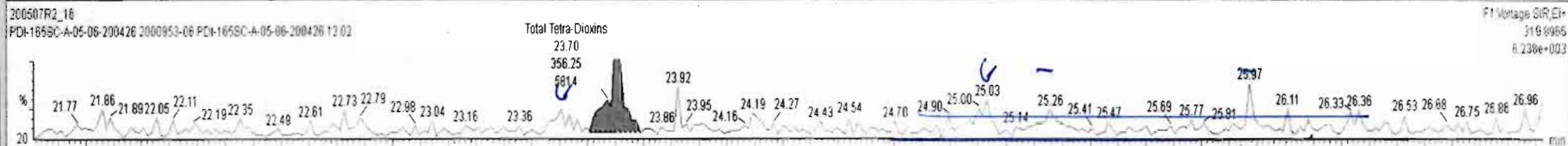




200507R2_16 - 2000953-06 PDI-165SC-A-05-06-200426 12.02 - PDI-165SC-A-05-06-200426

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.140			0.204	0.0717	0.204	
40 Total Penta-Dioxins				0.9425	10.140			0.169	0.138	0.169	
41 Total Hexa-Dioxins				0.9145	10.140			1.07	0.130	1.53	
42 Total Hepta-Dioxins				0.8979	10.140			2.23	0.144	2.23	
43 Total Tetra-Furans				0.7871	10.140				0.0131		
44 1st Func. Penta-Furans				0.9102	10.140				0.0109		
45 Total Penta-Furans				0.9102	10.140				0.0211		

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.70	3.563e2	5.110e2	0.70	NO	0.20414	0.20414



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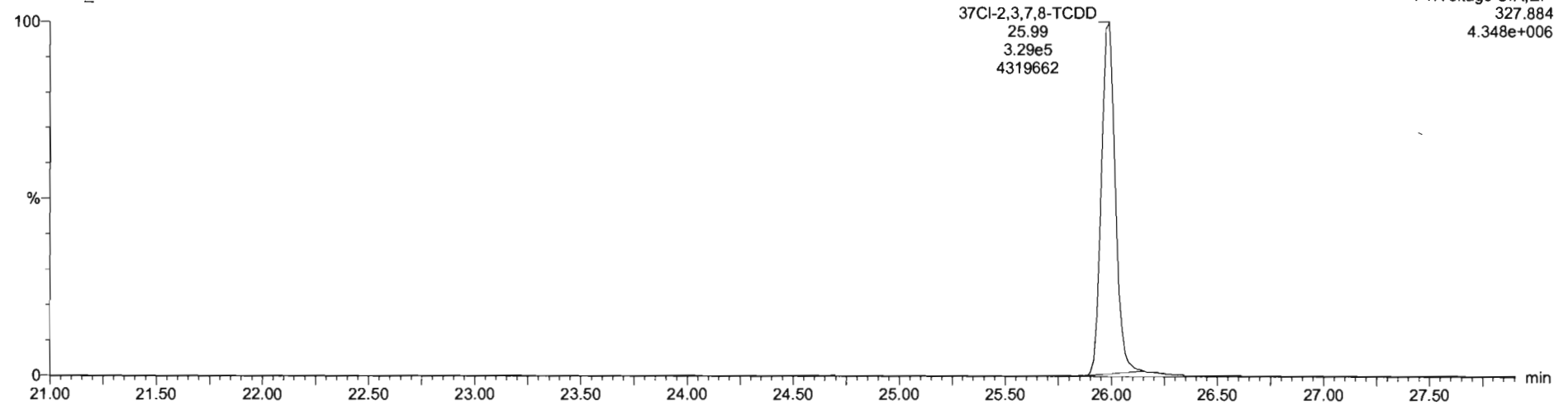
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Name: 200507R2_16, Date: 08-May-2020, Time: 02:06:17, ID: 2000953-06 PDI-165SC-A-05-06-200426 12.02, Description: PDI-165SC-A-05-06-200426

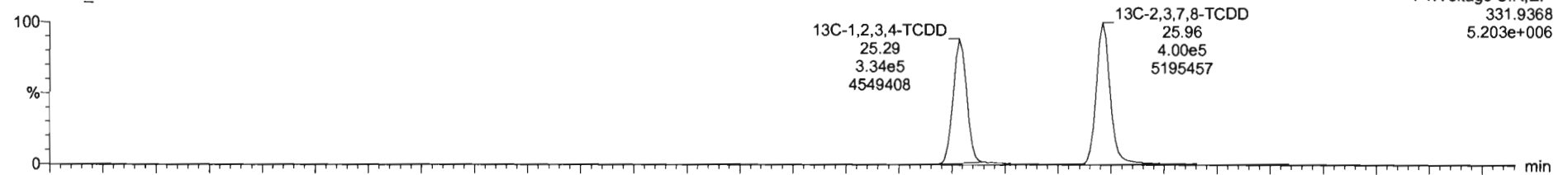
37Cl-2,3,7,8-TCDD

200507R2_16

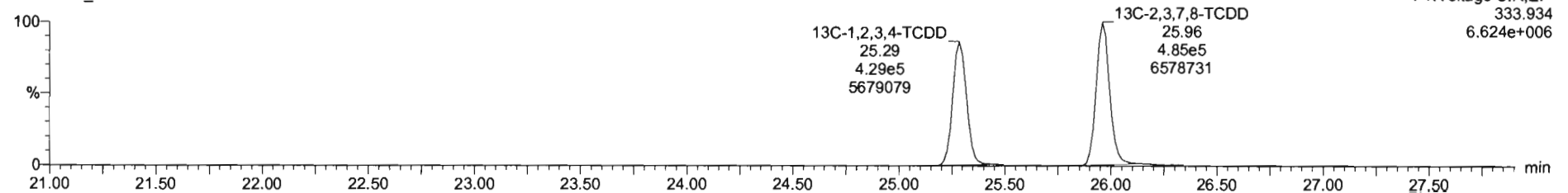


13C-1,2,3,4-TCDD

200507R2_16



200507R2_16



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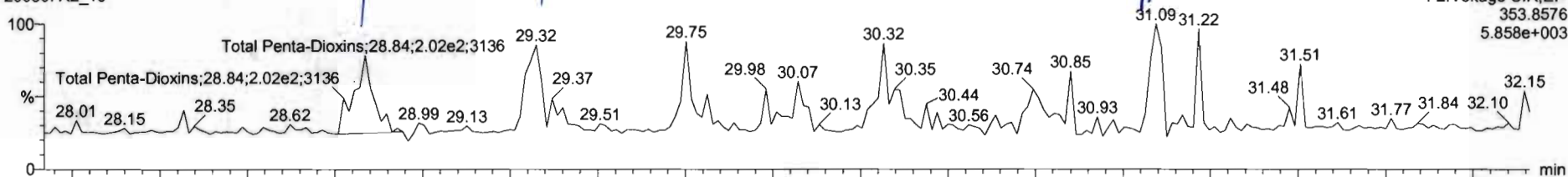
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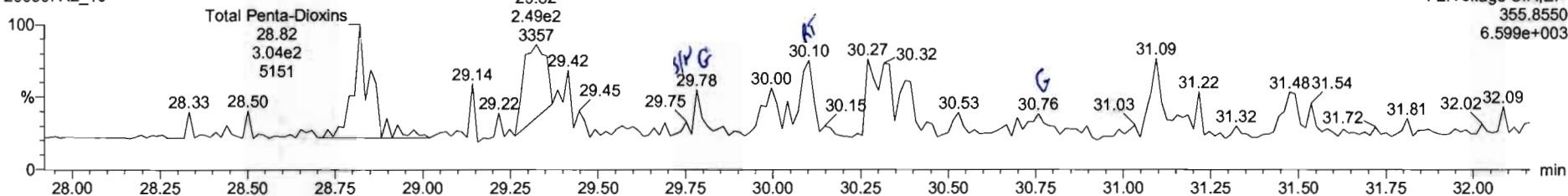
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1,2,3,7,8-PeCDD

200507R2_16

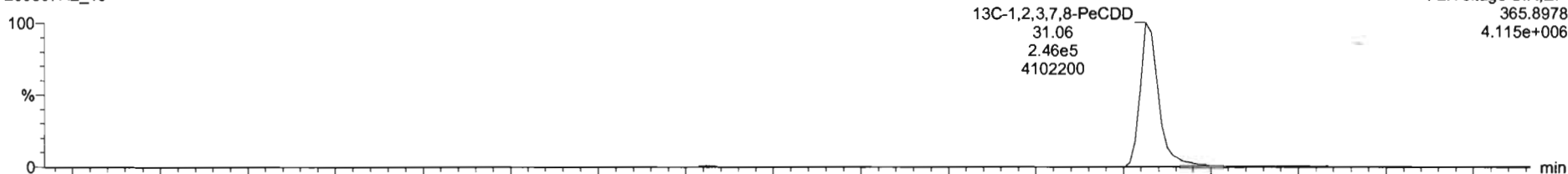


200507R2_16

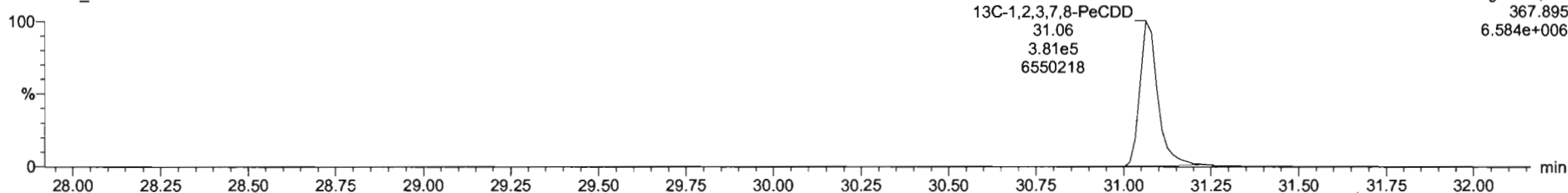


13C-1,2,3,7,8-PeCDD

200507R2_16

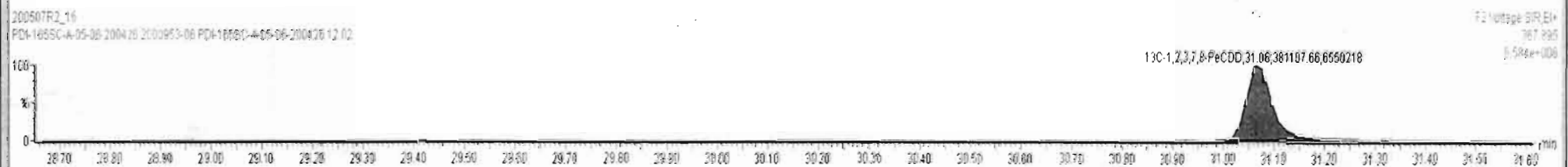
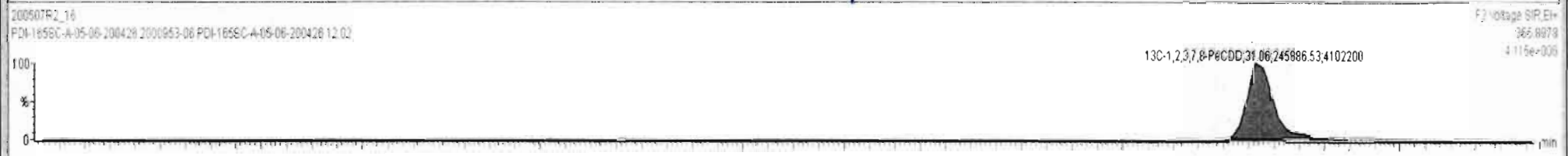
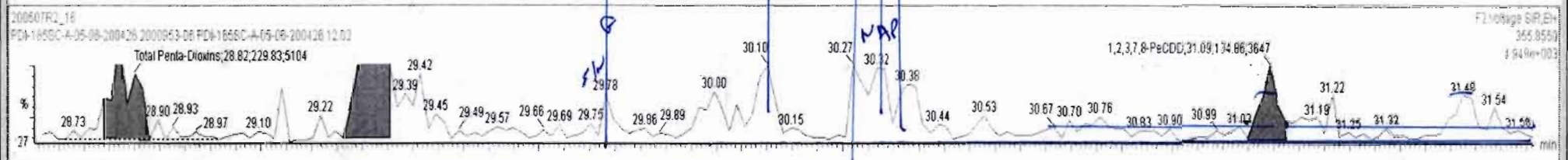
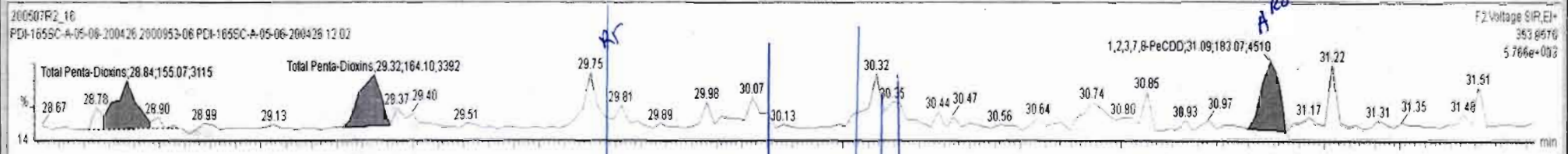


200507R2_16



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.140			0.204		0.0717	0.204
40 Total Penta-Dioxins				0.9425	10.140			0.280		0.138	0.353
41 Total Hexa-Dioxins				0.9145	10.140			1.07		0.130	1.53
42 Total Hepta-Dioxins				0.8979	10.140			2.23		0.144	2.23
43 Total Tetra-Furans				0.7871	10.140					0.0131	
44 1st Func. Penta-Furans				0.9102	10.140					0.0109	
45 Total Penta-Furans				0.9102	10.140					0.0211	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Dioxins	28.84	1.551e2	2.288e2	0.67	NO	0.12848	0.12848
2 Total Penta-Dioxins	29.32	1.641e2	2.896e2	0.57	NO	0.15144	0.15144
3 1,2,3,7,8-PeCDD	31.09	1.831e2	1.349e2	1.36	YES	0.073377	0.00000



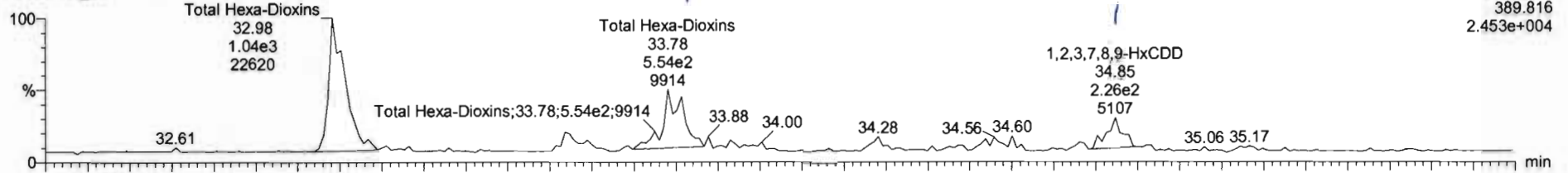
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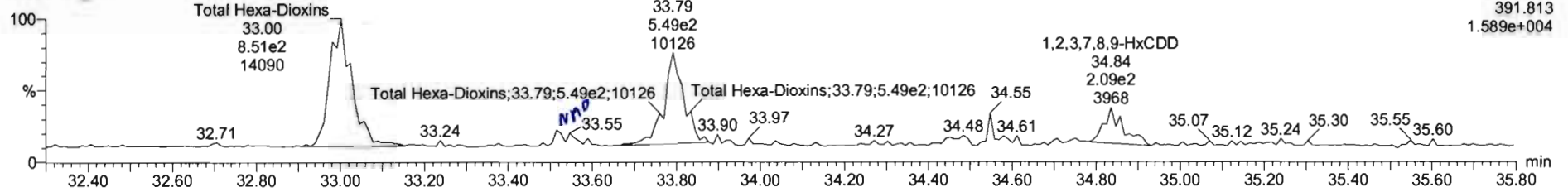
1,2,3,4,7,8-HxCDD

200507R2_16



F3: Voltage SIR, EI+
389.816
2.453e+004

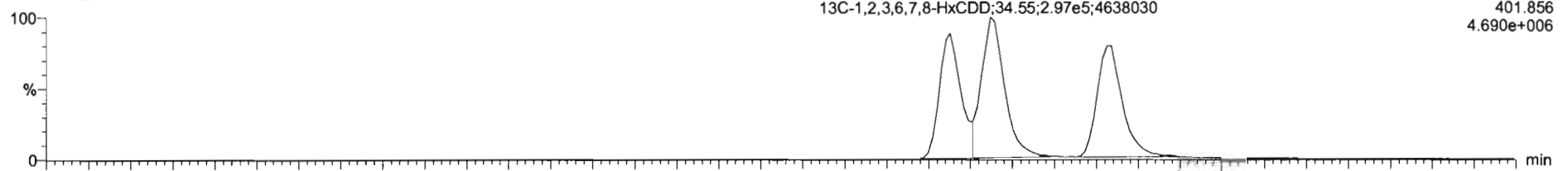
200507R2_16



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1.589e+004

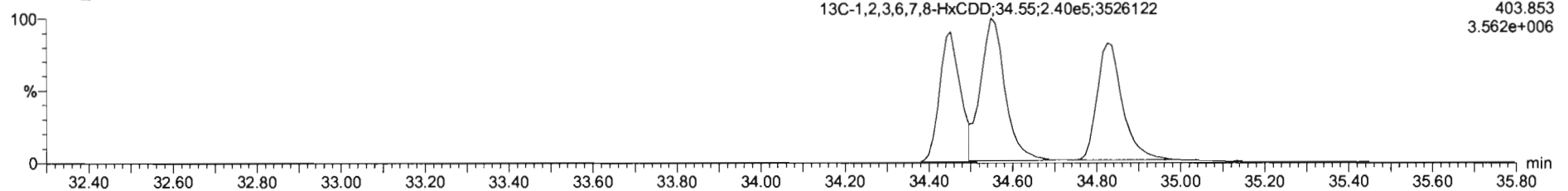
13C-1,2,3,4,7,8-HxCDD

200507R2_16



F3: Voltage SIR, EI+
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4.690e+006

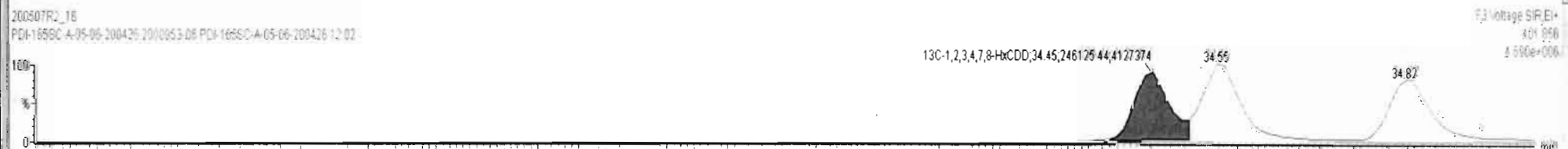
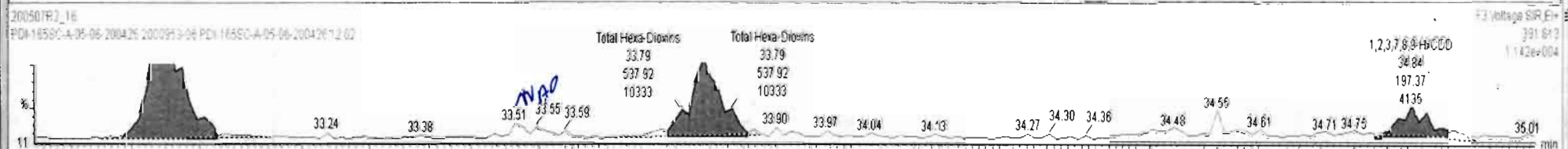
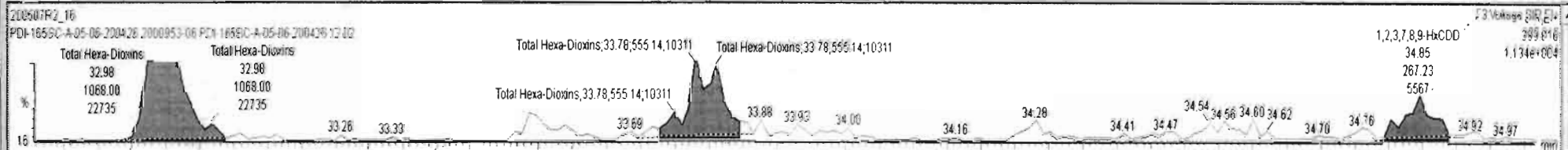
200507R2_16



F3: Voltage SIR, EI+
403.853
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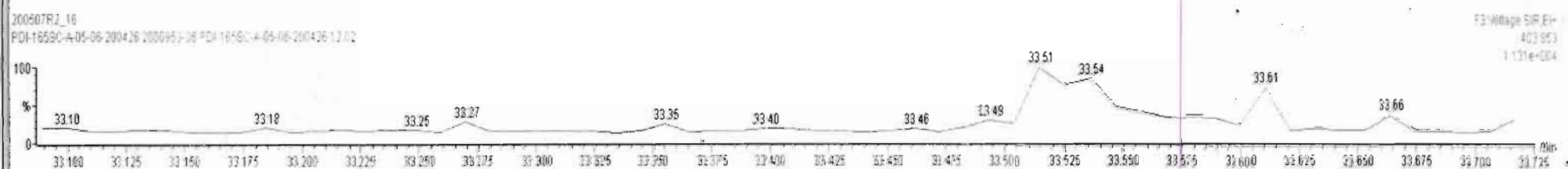
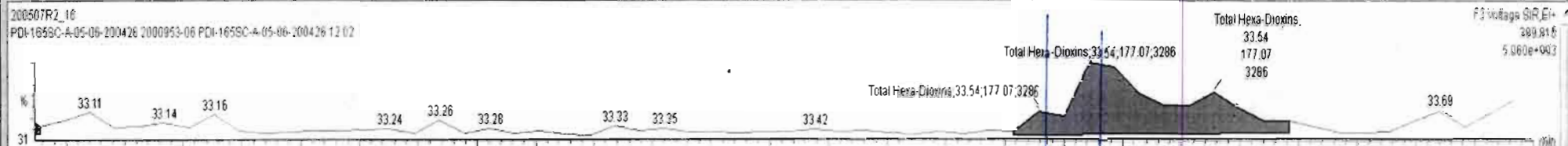
Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.140			0.204	0.0717	0.204	
40 Total Penta-Dioxins				0.9425	10.140			0.280	0.138	0.353	
41 Total Hexa-Dioxins				0.9145	10.140			1.08	0.130	1.54	
42 Total Hepta-Dioxins				0.8978	10.140			2.23	0.144	2.23	
43 Total Tetra-Furans				0.7871	10.140				0.0131		
44 1st Func. Penta-Furans				0.9102	10.140				0.0109		
45 Total Penta-Furans				0.9102	10.140				0.0211		

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,7,8,9-HxCDD	34.85	2.672e2	1.974e2	1.35	NO	0.21994	0.21994
2 Total Hexa-Dioxins	33.78	5.551e2	5.379e2	1.03	YES	0.45722	0.00000
3 Total Hexa-Dioxins	32.98	1.068e3	8.253e2	1.29	NO	0.86318	0.86318



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.140			0.204	0.0717	0.204	
40 Total Penta-Dioxins				0.9425	10.140			0.280	0.138	0.353	
41 Total Hexa-Dioxins				0.9145	10.140			1.08	0.130	1.63	
42 Total Hepta-Dioxins				0.8978	10.140			2.23	0.144	2.23	
43 Total Tetra-Furans				0.7871	10.140				0.0131		
44 1st Func. Penta-Furans				0.9102	10.140				0.0109		
45 Total Penta-Furans				0.9102	10.140				0.0211		

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,7,8,9-HxCDD	34.85	2.672e2	1.974e2	1.35	NO	0.21994	0.21994
2 Total Hexa-Dioxins	33.78	5.551e2	5.379e2	1.03	YES	0.45722	0.00000
3 Total Hexa-Dioxins	32.98	1.068e3	8.253e2	1.29	NO	0.86318	0.86318
4 Total Hexa-Dioxins	33.54	1.771e2	8.581e1	2.06	YES	0.087637	0.00000



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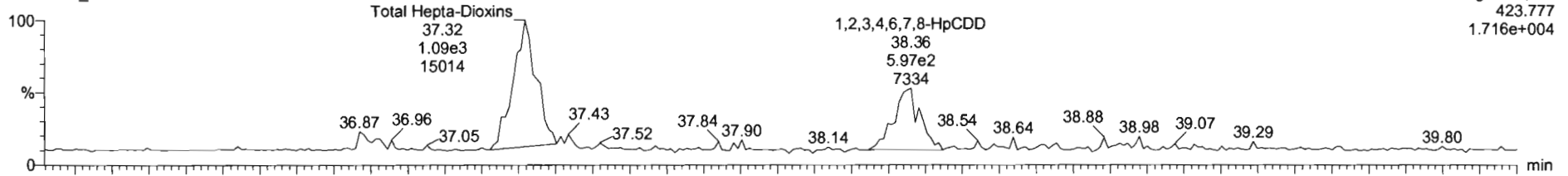
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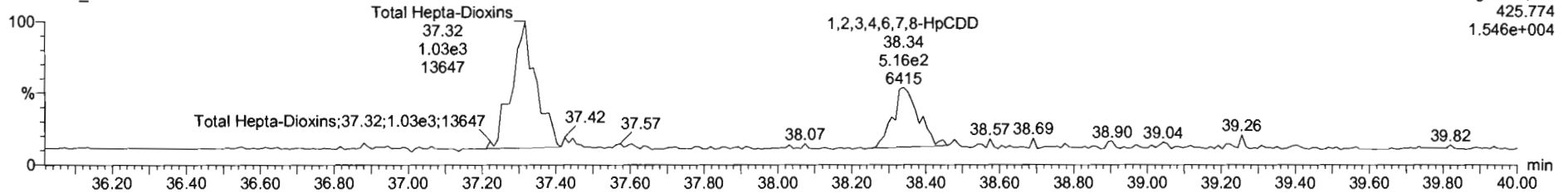
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1,2,3,4,6,7,8-HpCDD

200507R2_16

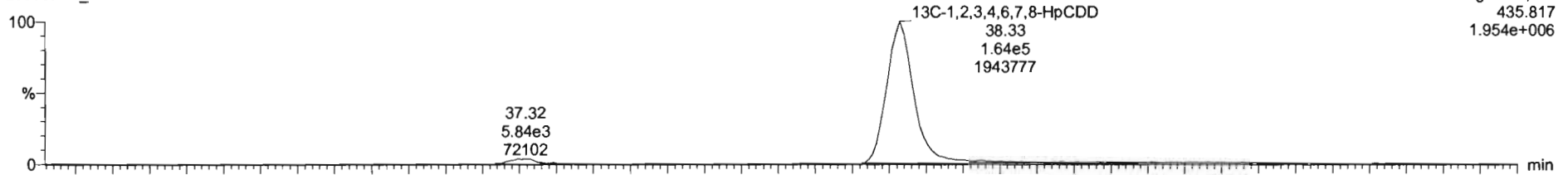


200507R2_16

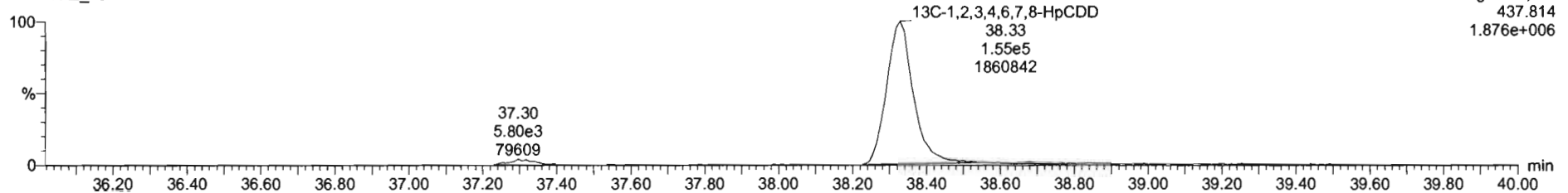


13C-1,2,3,4,6,7,8-HpCDD

200507R2_16

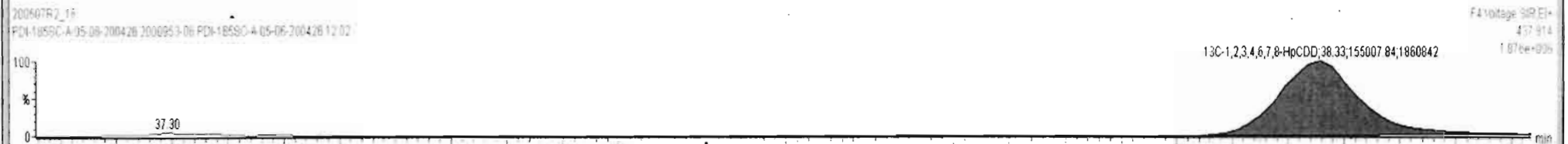
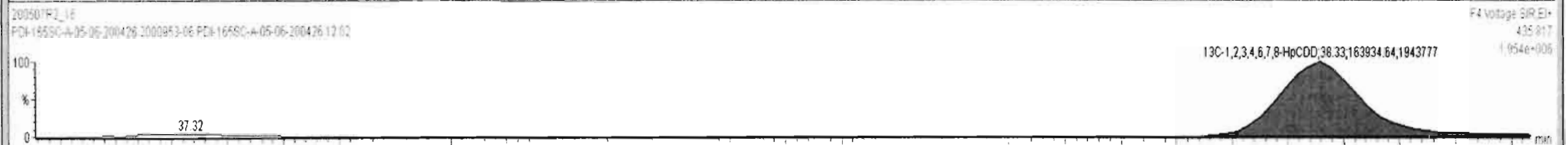
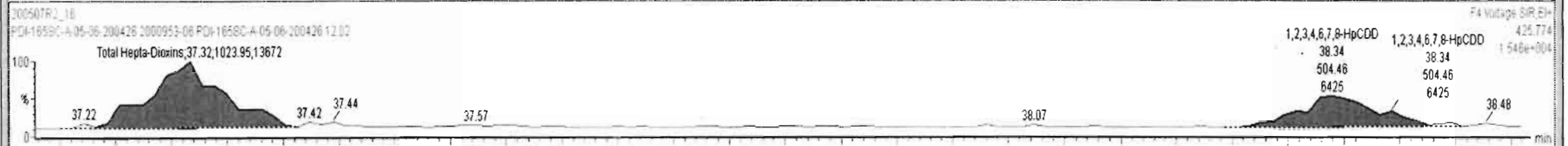
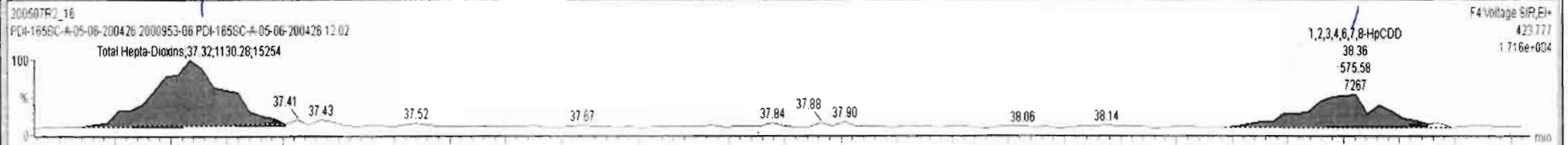


200507R2_16



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.140			0.204	0.0717	0.204	
40 Total Penta-Dioxins				0.9425	10.140			0.280	0.138	0.353	
41 Total Hexa-Dioxins				0.9145	10.140			1.08	0.130	1.54	
42 Total Hepta-Dioxins				0.8979	10.140			2.23	0.144	2.23	
43 Total Tetra-Furans				0.7871	10.140				0.0131		
44 1st Func. Penta-Furans				0.9102	10.140				0.0109		
45 Total Penta-Furans				0.9102	10.140				0.0211		

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDD	38.36	5.756e2	5.045e2	1.14	NO	0.74388	0.74388
2 Total Hepta-Dioxins	37.32	1.130e3	1.024e3	1.10	NO	1.4837	1.4837

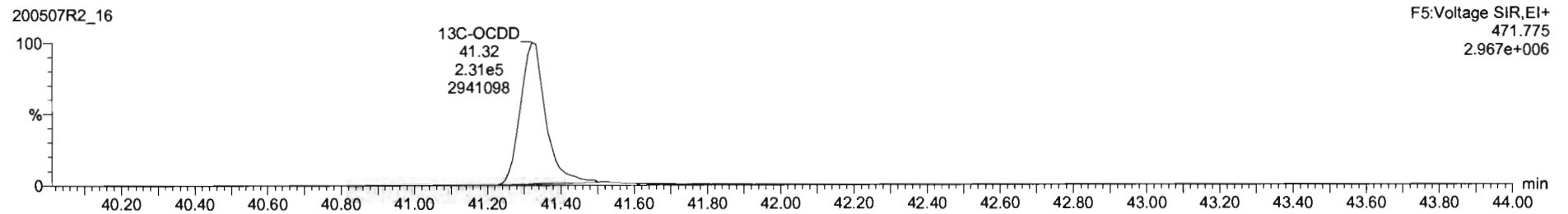
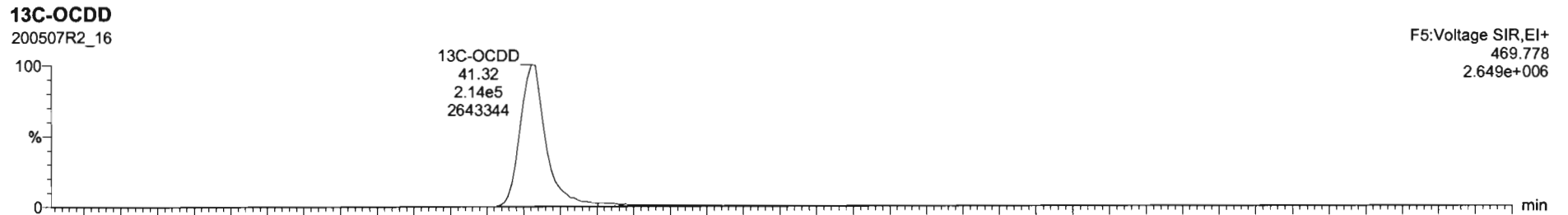
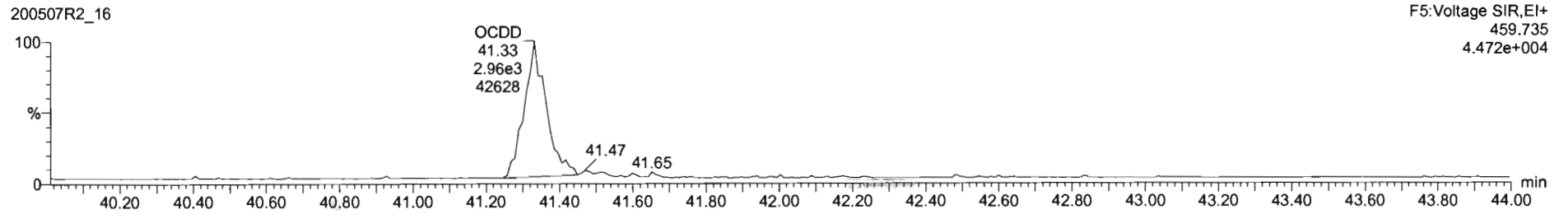
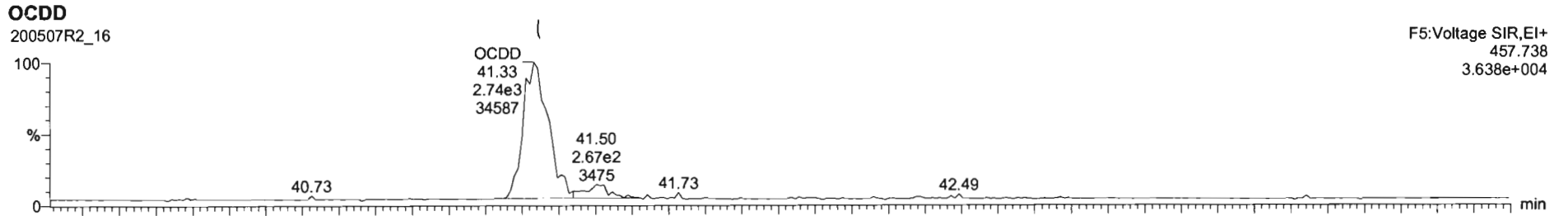


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Name: 200507R2_16, Date: 08-May-2020, Time: 02:06:17, ID: 2000953-06 PDI-165SC-A-05-06-200426 12.02, Description: PDI-165SC-A-05-06-200426

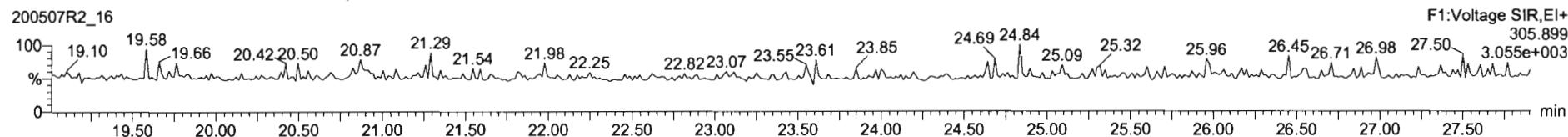
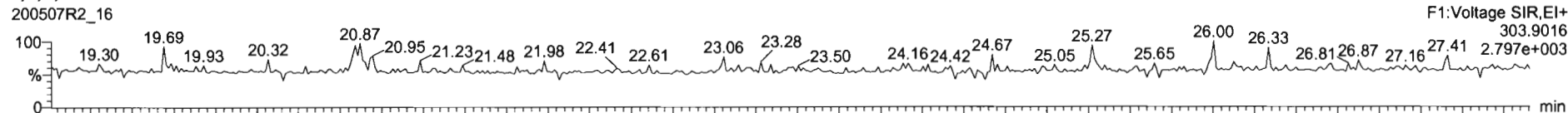


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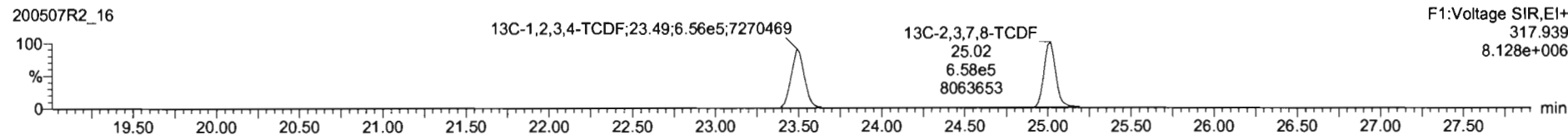
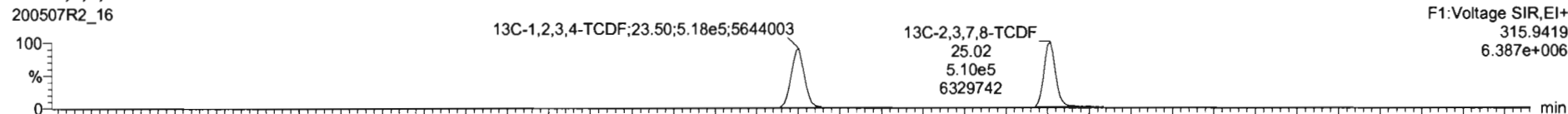
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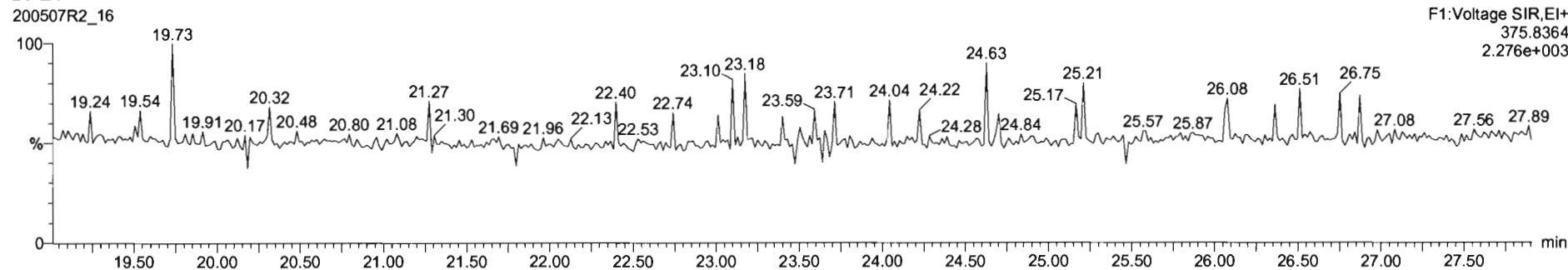
2,3,7,8-TCDF



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



DPE1



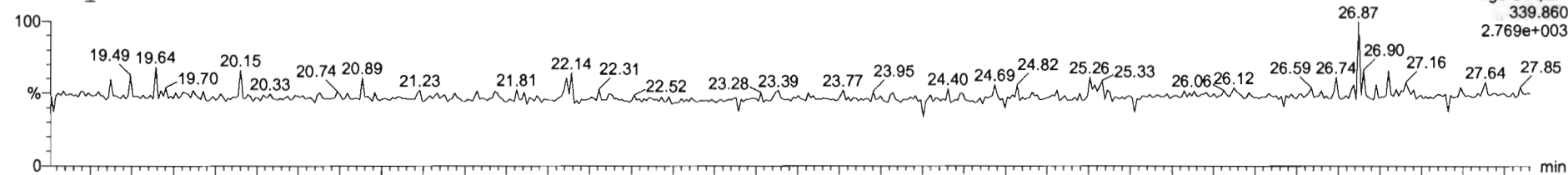
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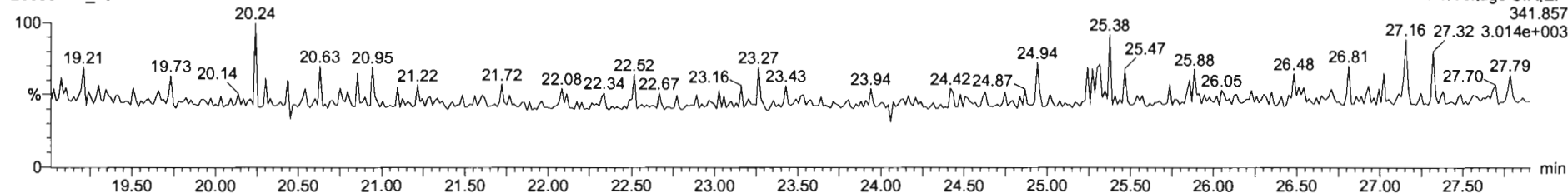
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1st Func. Penta-Furans

200507R2_16

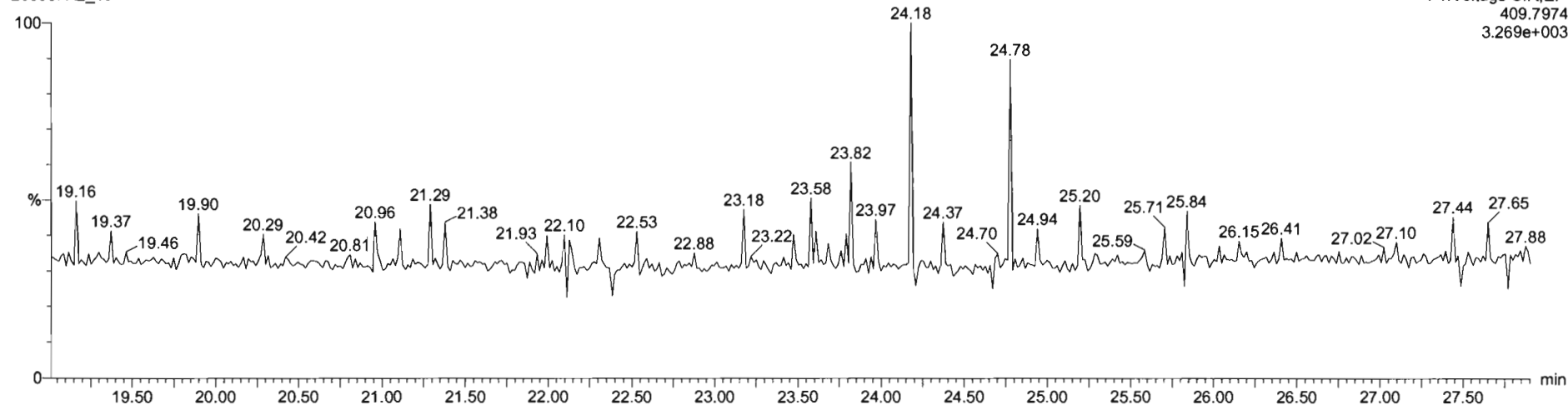


200507R2_16



DPE6

200507R2_16



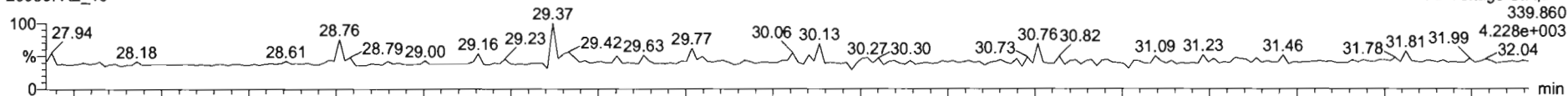
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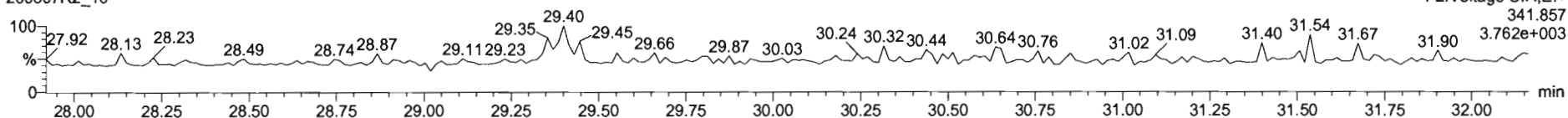
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1,2,3,7,8-PeCDF

200507R2_16

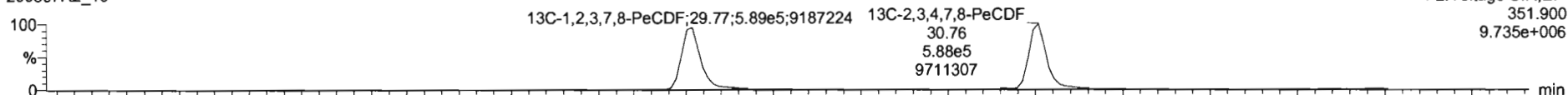


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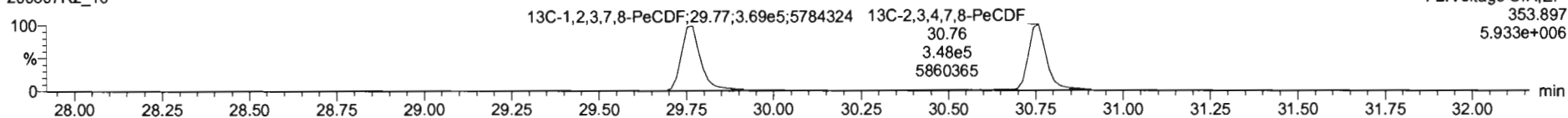


13C-1,2,3,7,8-PeCDF

200507R2_16

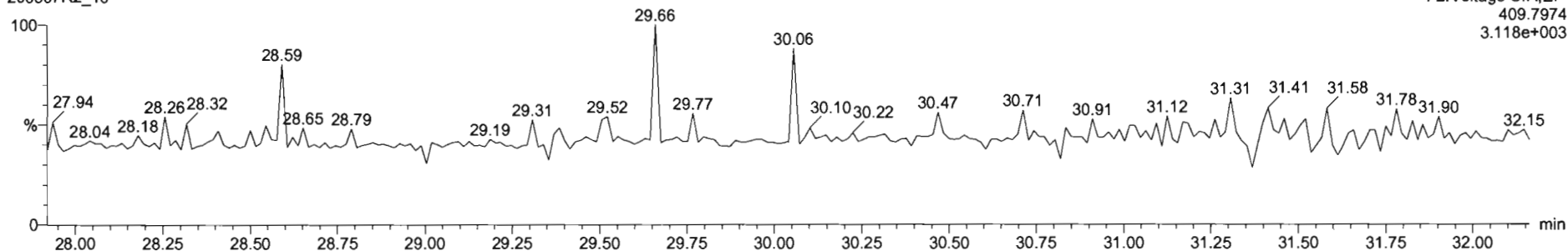


200507R2_16



DPE2

200507R2_16



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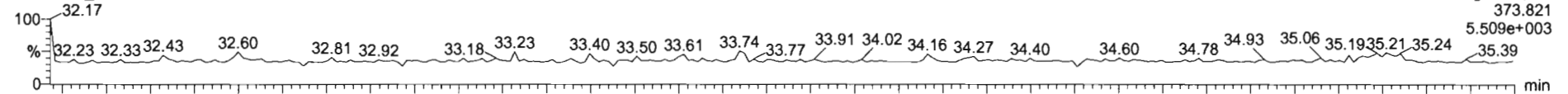
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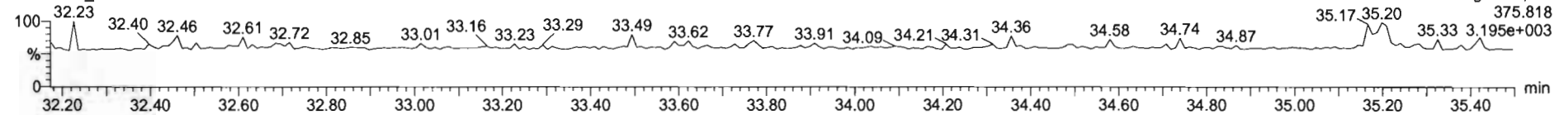
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1,2,3,4,7,8-HxCDF

200507R2_16

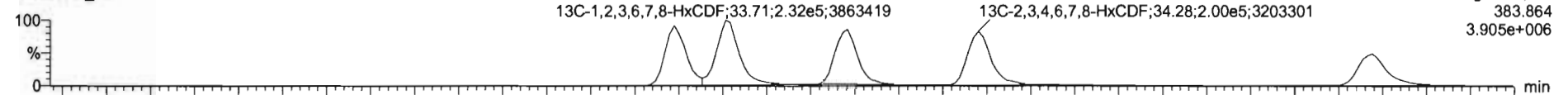


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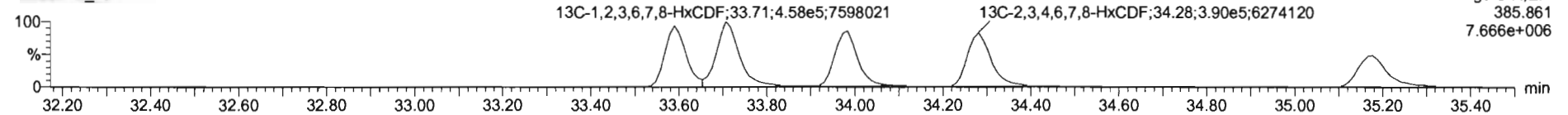


13C-1,2,3,4,7,8-HxCDF

200507R2_16

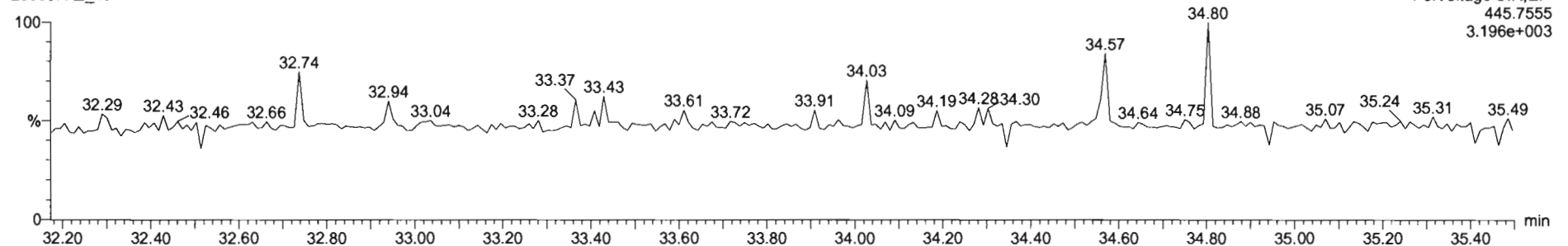


200507R2_16



DPE3

200507R2_16



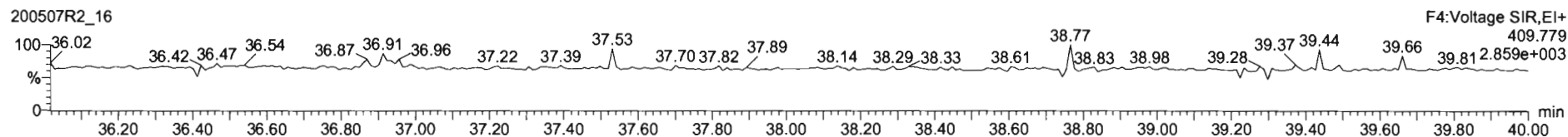
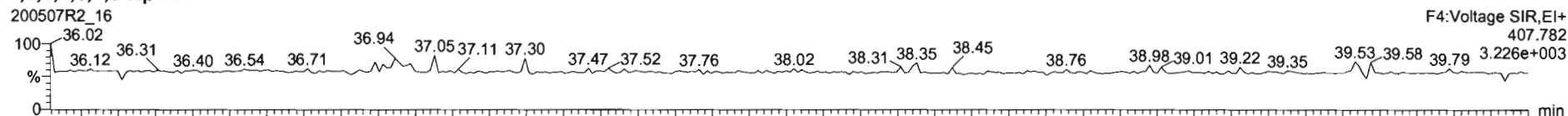
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Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time

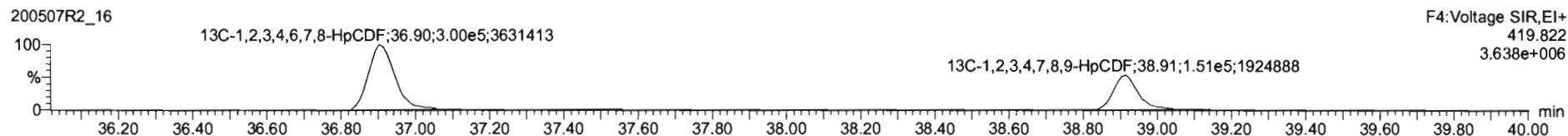
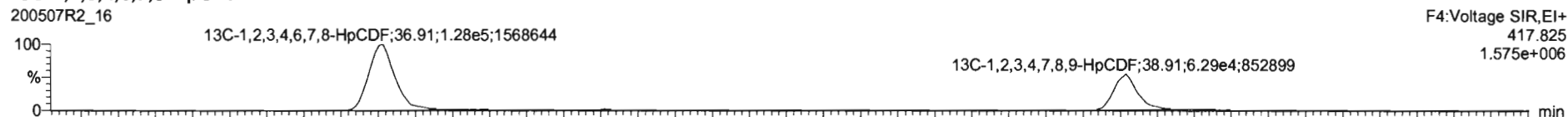
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Name: 200507R2_16, Date: 08-May-2020, Time: 02:06:17, ID: 2000953-06 PDI-165SC-A-05-06-200426 12.02, Description: PDI-165SC-A-05-06-200426

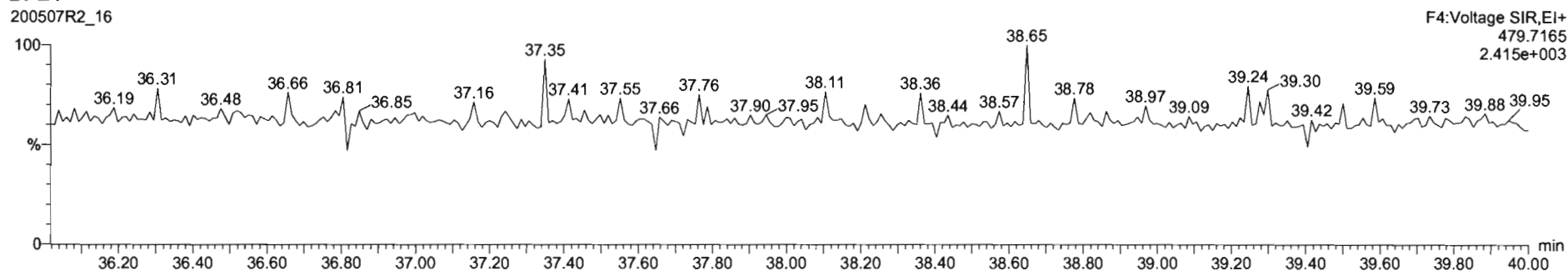
1,2,3,4,6,7,8-HpCDF



¹³C-1,2,3,4,6,7,8-HpCDF



DPE4

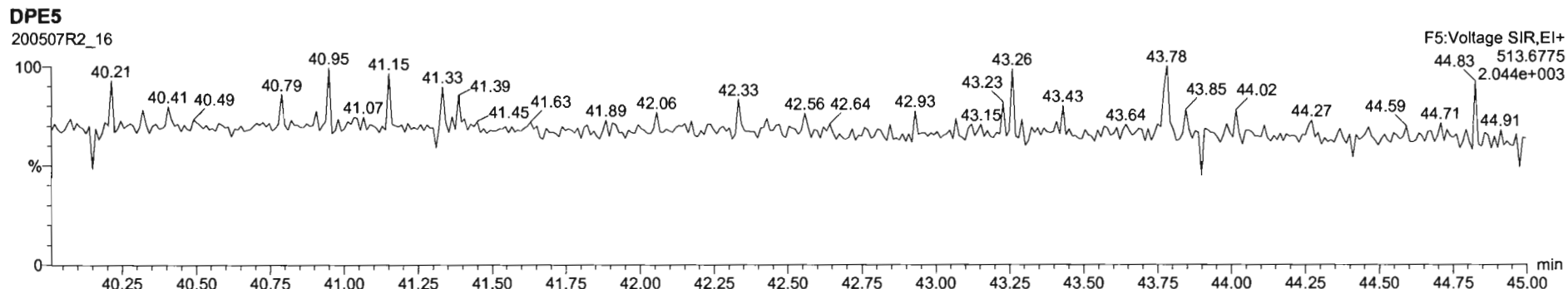
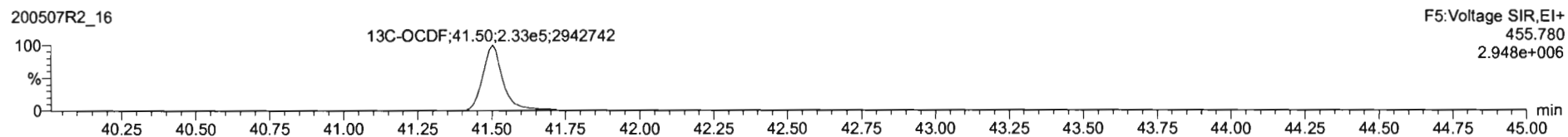
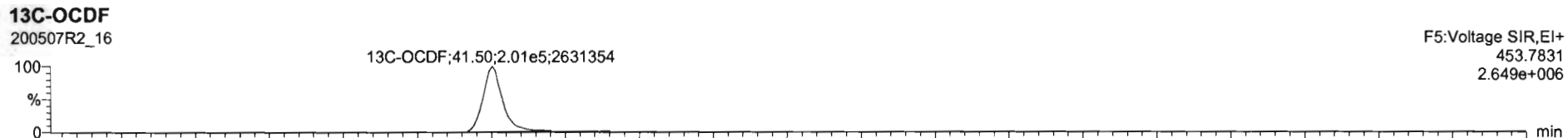
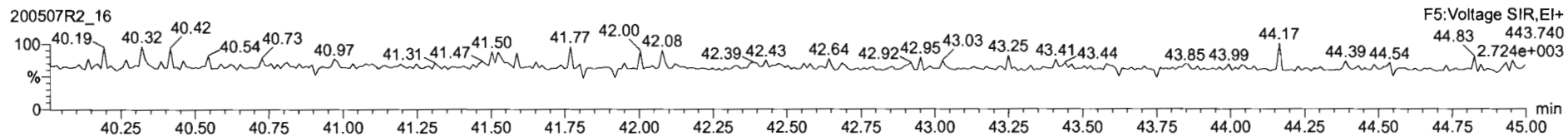
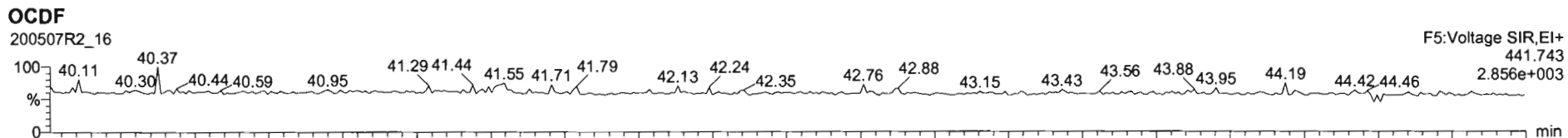


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Name: 200507R2_16, Date: 08-May-2020, Time: 02:06:17, ID: 2000953-06 PDI-165SC-A-05-06-200426 12.02, Description: PDI-165SC-A-05-06-200426

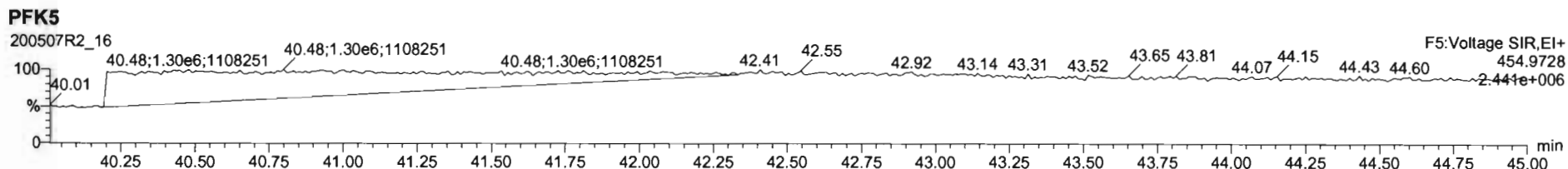
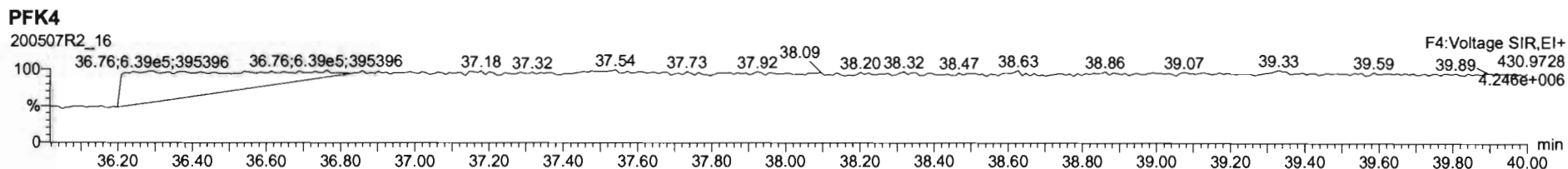
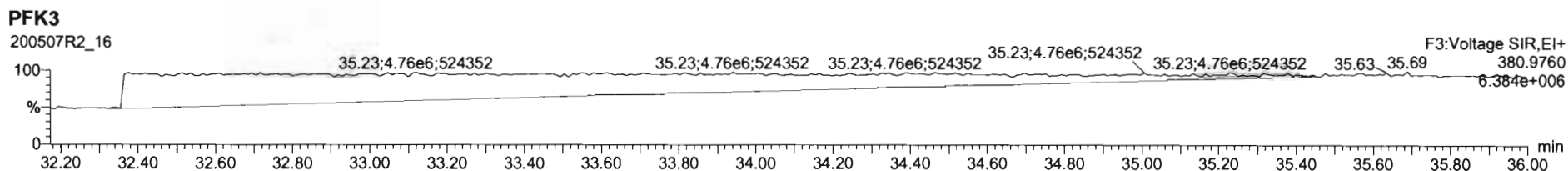
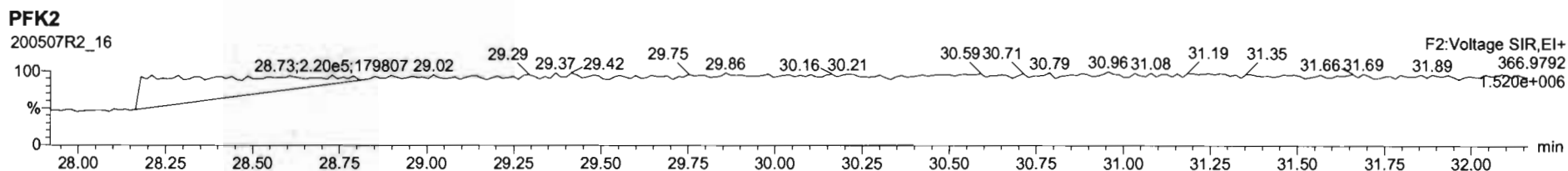
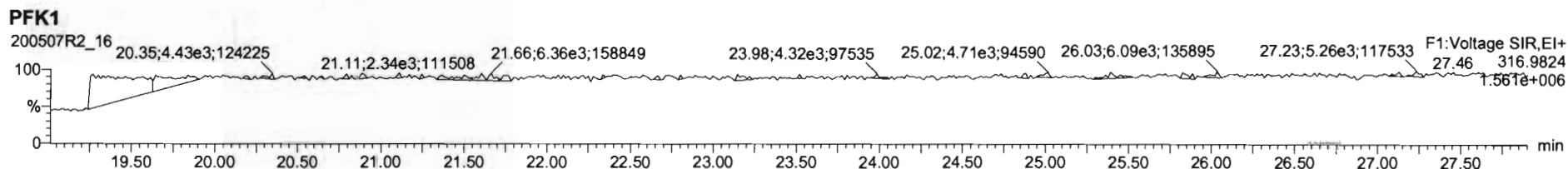


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Name: 200507R2_16, Date: 08-May-2020, Time: 02:06:17, ID: 2000953-06 PDI-165SC-A-05-06-200426 12.02, Description: PDI-165SC-A-05-06-200426



Dataset: U:\VG12.PRO\Results\200508R1\200508R1-5.qld

Last Altered: Friday, May 08, 2020 13:52:43 Pacific Daylight Time
Printed: Friday, May 08, 2020 14:09:35 Pacific Daylight Time

dy 05-08-2020

CA 05/15/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200508R1_5, Date: 08-May-2020, Time: 11:16:17, ID: 2000953-07 PDI-165SC-A-06-07-200426 12.14, Description: PDI-165SC-A-06-07-200426

#	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	0.947	10.782	25.991		1.001				0.0590	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.782	31.086		1.001				0.0829	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.782	34.462		1.000				0.0590	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.782	34.548		1.000				0.0604	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.782	34.835		1.000				0.0737	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.898	10.782	38.340		1.000				0.115	
7	7 OCDD	4.28e2	0.72	YES	0.933	10.782	41.321	41.33	1.000	1.000	0.40275		0.117	0.359
8	8 2,3,7,8-TCDF			NO	0.787	10.782	25.027		1.001				0.0345	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.782	29.772		1.001				0.0395	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.782	30.774		1.001				0.0379	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.782	33.589		1.000				0.0397	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.782	33.717		1.000				0.0395	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.782	34.316		1.001				0.0435	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.782	35.166		1.000				0.0835	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.782	36.939		1.001				0.0474	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.782	38.915		1.000				0.0940	
17	17 OCDF			NO	0.802	10.782	41.492		1.000				0.170	
18	18 13C-2,3,7,8-TCDD	1.09e6	0.77	NO	1.16	10.782	25.954	25.96	1.026	1.027	188.78	102	0.263	
19	19 13C-1,2,3,7,8-PeCDD	7.55e5	0.62	NO	0.847	10.782	31.031	31.06	1.227	1.229	179.61	96.8	0.457	
20	20 13C-1,2,3,4,7,8-HxCDD	4.62e5	1.28	NO	0.750	10.782	34.452	34.45	1.014	1.014	191.92	103	0.785	
21	21 13C-1,2,3,6,7,8-HxCDD	6.23e5	1.29	NO	0.963	10.782	34.564	34.55	1.017	1.017	201.66	109	0.611	
22	22 13C-1,2,3,7,8,9-HxCDD	5.25e5	1.23	NO	0.838	10.782	34.833	34.83	1.025	1.025	195.43	105	0.703	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.45e5	1.05	NO	0.641	10.782	38.318	38.33	1.128	1.128	167.70	90.4	0.733	
24	24 13C-OCDD	4.22e5	0.88	NO	0.586	10.782	41.308	41.32	1.216	1.216	224.24	60.4	0.561	
25	25 13C-2,3,7,8-TCDF	1.41e6	0.77	NO	1.03	10.782	25.015	25.00	0.989	0.989	187.84	101	0.507	
26	26 13C-1,2,3,7,8-PeCDF	1.15e6	1.58	NO	0.845	10.782	29.724	29.75	1.176	1.177	188.31	102	0.993	
27	27 13C-2,3,4,7,8-PeCDF	1.06e6	1.54	NO	0.814	10.782	30.712	30.74	1.215	1.216	179.56	96.8	1.03	
28	28 13C-1,2,3,4,7,8-HxCDF	6.36e5	0.50	NO	1.00	10.782	33.593	33.59	0.989	0.989	197.28	106	0.821	
29	29 13C-1,2,3,6,7,8-HxCDF	7.61e5	0.51	NO	1.14	10.782	33.715	33.71	0.992	0.992	208.67	112	0.726	
30	30 13C-2,3,4,6,7,8-HxCDF	6.37e5	0.51	NO	1.02	10.782	34.282	34.28	1.009	1.009	194.25	105	0.807	
31	31 13C-1,2,3,7,8,9-HxCDF	4.45e5	0.50	NO	0.845	10.782	35.172	35.17	1.035	1.035	164.35	88.6	0.976	

Dataset: U:\VG12.PRO\Results\200508R1\200508R1-5.qld

Last Altered: Friday, May 08, 2020 13:52:43 Pacific Daylight Time
Printed: Friday, May 08, 2020 14:09:35 Pacific Daylight Time

Name: 200508R1_5, Date: 08-May-2020, Time: 11:16:17, ID: 2000953-07 PDI-165SC-A-06-07-200426 12.14, Description: PDI-165SC-A-06-07-200426

#	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	4.53e5	0.42	NO	0.771	10.782	36.901	36.90	1.086	1.086	183.08	98.7	0.790	
33	13C-1,2,3,4,7,8,9-HpCDF	1.90e5	0.41	NO	0.482	10.782	38.909	38.92	1.145	1.145	122.63	66.1	1.26	
34	13C-OCDF	3.49e5	0.84	NO	0.669	10.782	41.478	41.49	1.221	1.221	162.47	43.8	0.382	
35	37Cl-2,3,7,8-TCDD	3.99e5			1.10	10.782	25.984	25.98	1.028	1.027	73.141	98.6	0.0600	
36	13C-1,2,3,4-TCDD	9.20e5	0.78	NO	1.00	10.782	25.350	25.29	1.000	1.000	185.50	100	0.305	
37	13C-1,2,3,4-TCDF	1.34e6	0.77	NO	1.00	10.782	23.560	23.49	1.000	1.000	185.50	100	0.525	
38	13C-1,2,3,4,6,9-HxCDF	5.95e5	0.50	NO	1.00	10.782	34.000	33.97	1.000	1.000	185.50	100	0.825	
39	Total Tetra-Dioxins				0.947	10.782	24.620		0.000				0.0378	
40	Total Penta-Dioxins				0.942	10.782	29.960		0.000				0.0374	
41	Total Hexa-Dioxins				0.915	10.782	33.635		0.000				0.0334	
42	Total Hepta-Dioxins				0.898	10.782	37.640		0.000				0.0699	
43	Total Tetra-Furans				0.787	10.782	23.610		0.000				0.0125	
44	1st Func. Penta-Furans				0.910	10.782	27.090		0.000				0.00834	
45	Total Penta-Furans				0.910	10.782	29.275		0.000				0.0183	
46	Total Hexa-Furans				0.922	10.782	33.555		0.000				0.0251	
47	Total Hepta-Furans				0.871	10.782	37.835		0.000				0.0294	

Dataset: U:\VG12.PRO\Results\200508R1\200508R1-5.qld

Last Altered: Friday, May 08, 2020 13:52:43 Pacific Daylight Time

Printed: Friday, May 08, 2020 14:09:35 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200508R1_5, Date: 08-May-2020, Time: 11:16:17, ID: 2000953-07 PDI-165SC-A-06-07-200426 12.14, Description: PDI-165SC-A-06-07-200426

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

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

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200508R1\200508R1-5.qld

Last Altered: Friday, May 08, 2020 13:52:43 Pacific Daylight Time

Printed: Friday, May 08, 2020 14:09:35 Pacific Daylight Time

Name: 200508R1_5, Date: 08-May-2020, Time: 11:16:17, ID: 2000953-07 PDI-165SC-A-06-07-200426 12.14, Description: PDI-165SC-A-06-07-200426

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

Dataset: Untitled

Last Altered: Friday, May 08, 2020 12:02:59 PM Pacific Daylight Time
Printed: Friday, May 08, 2020 12:03:17 PM Pacific Daylight Time

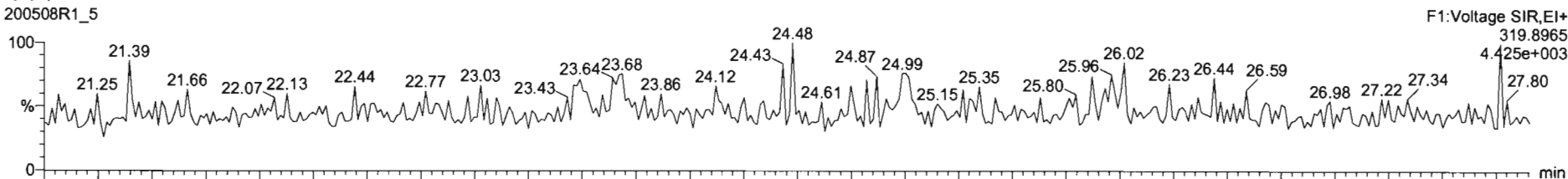
dy 05.08.2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
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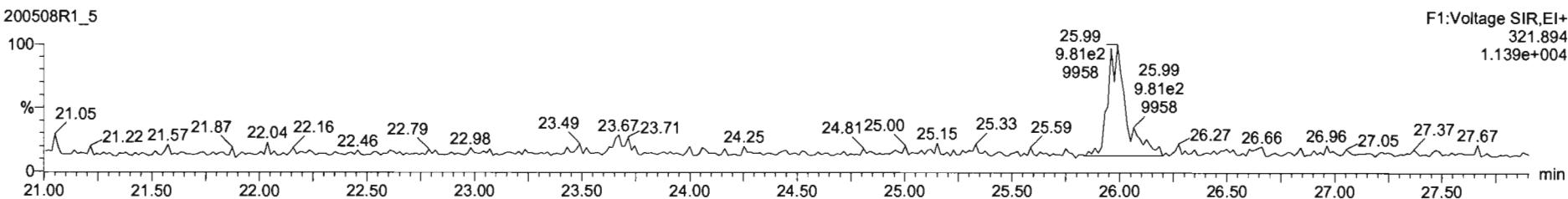
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2,3,7,8-TCDD

200508R1_5

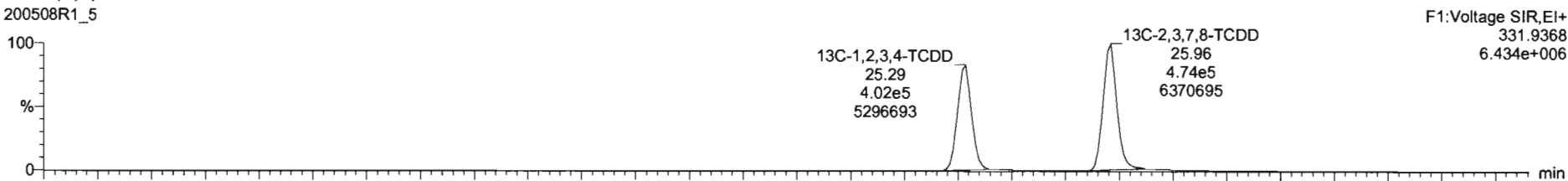


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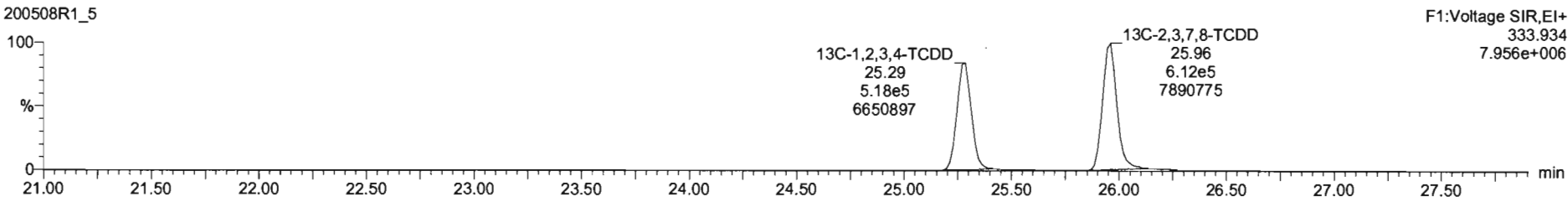


13C-2,3,7,8-TCDD

200508R1_5



200508R1_5



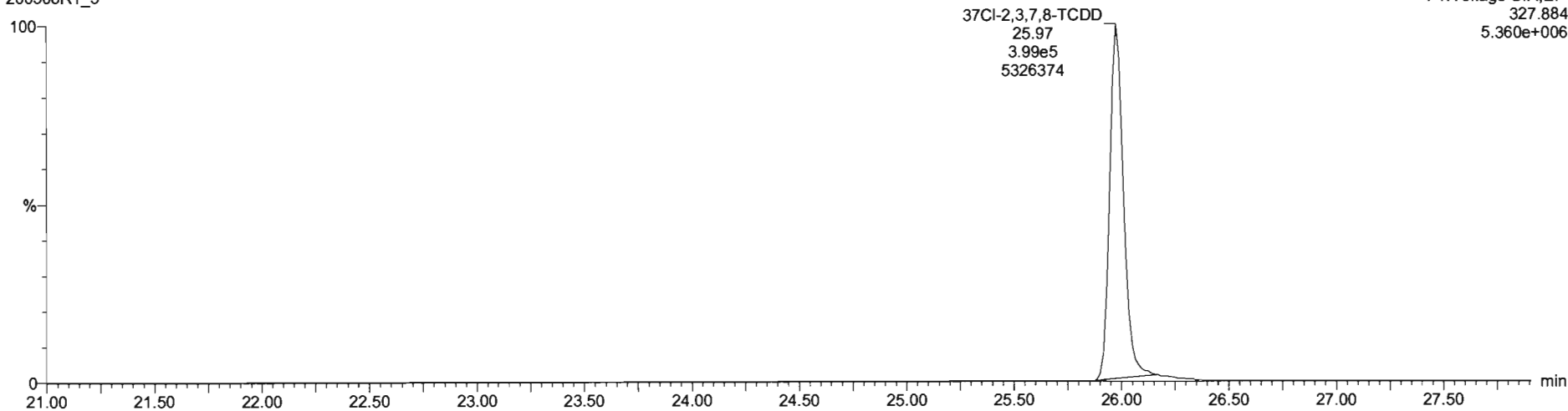
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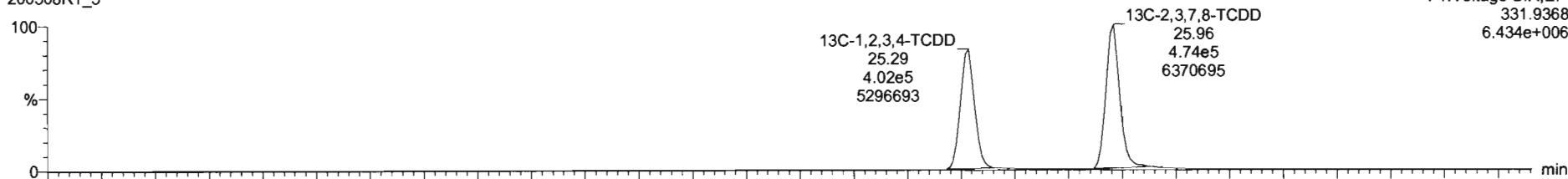
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200508R1_5

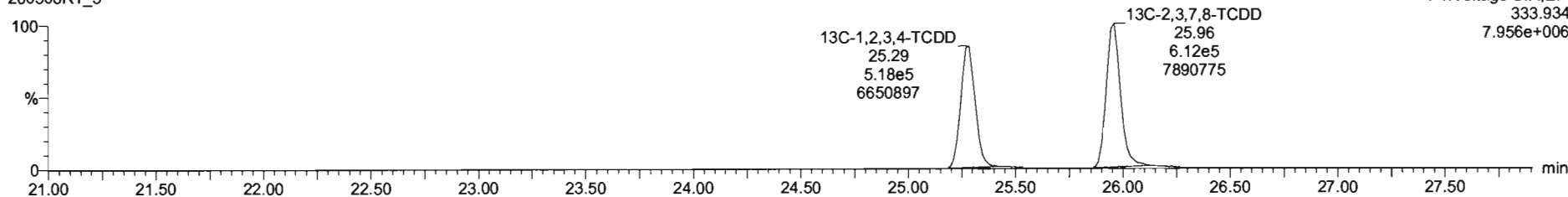


13C-1,2,3,4-TCDD

200508R1_5



200508R1_5



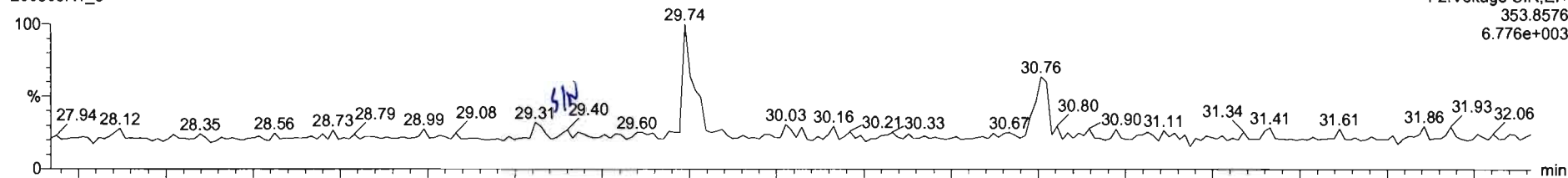
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Printed: Friday, May 08, 2020 12:03:17 PM Pacific Daylight Time

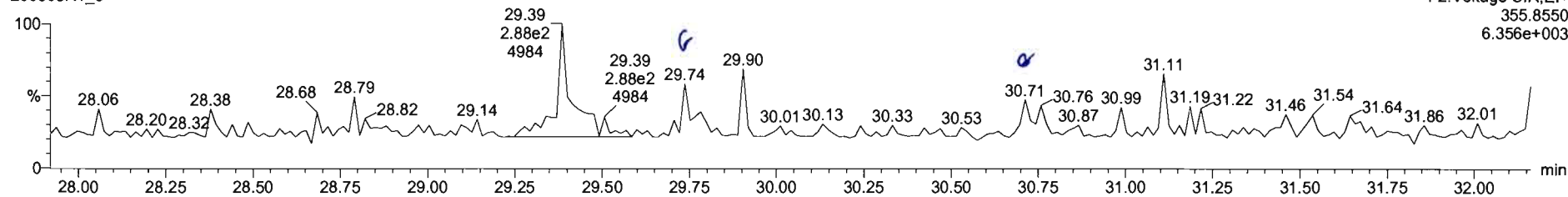
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1,2,3,7,8-PeCDD

200508R1_5

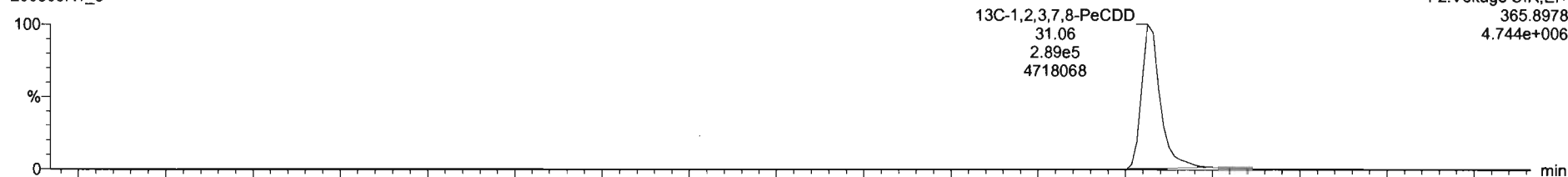


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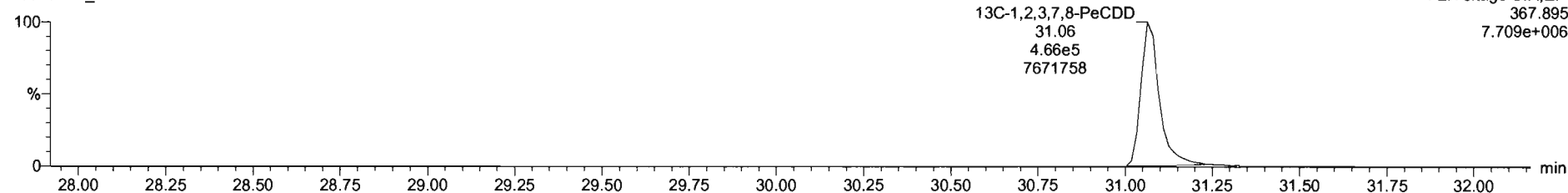


13C-1,2,3,7,8-PeCDD

200508R1_5



200508R1_5



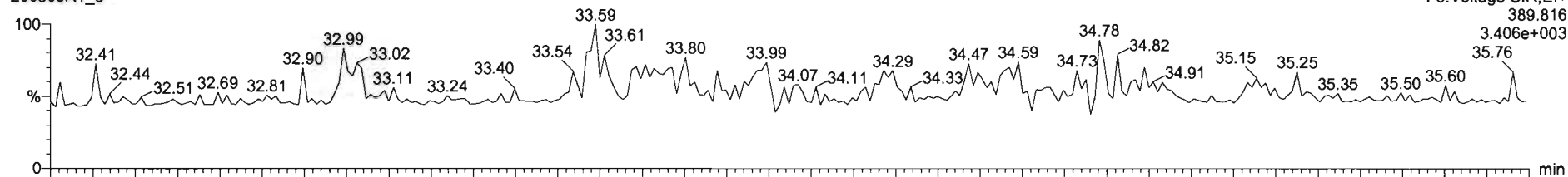
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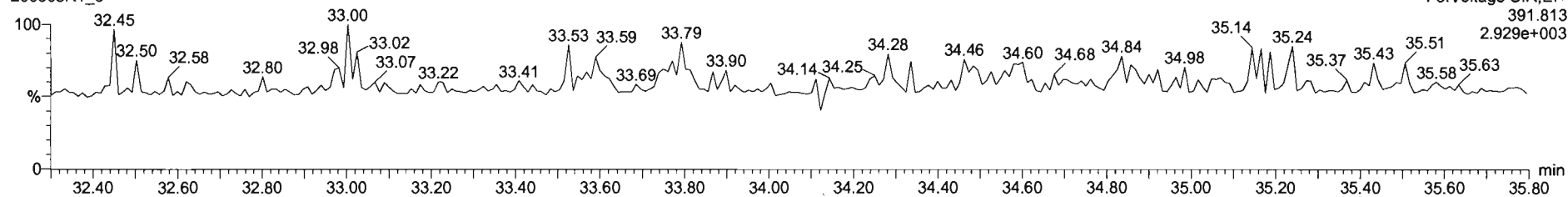
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1,2,3,4,7,8-HxCDD

200508R1_5

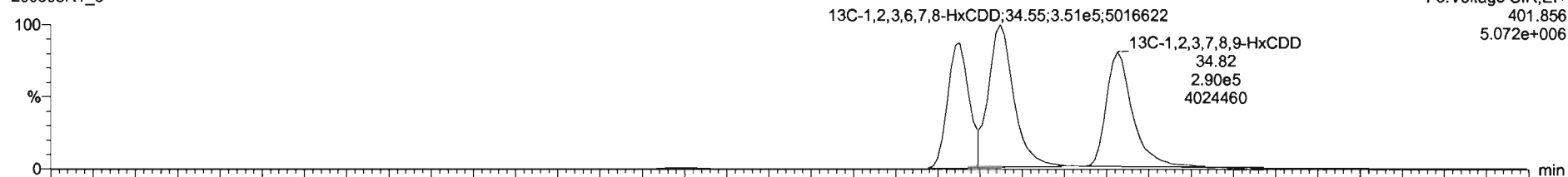


200508R1_5

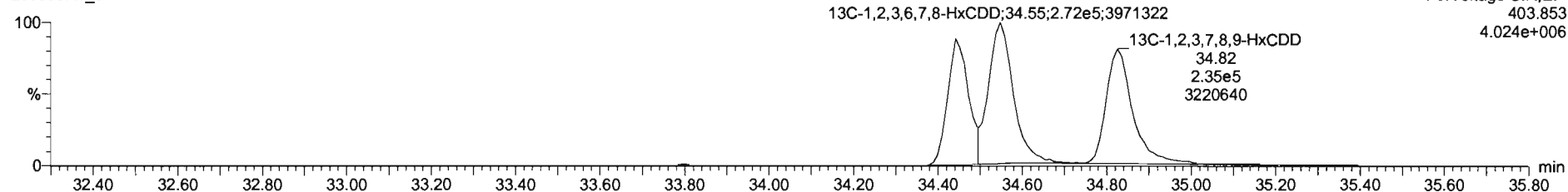


13C-1,2,3,4,7,8-HxCDD

200508R1_5



200508R1_5



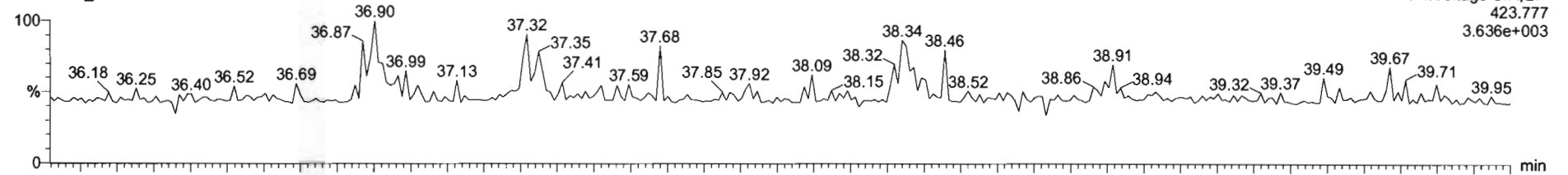
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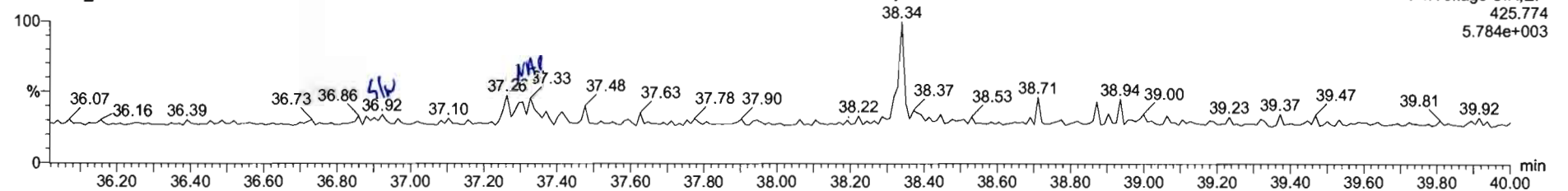
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1,2,3,4,6,7,8-HpCDD

200508R1_5

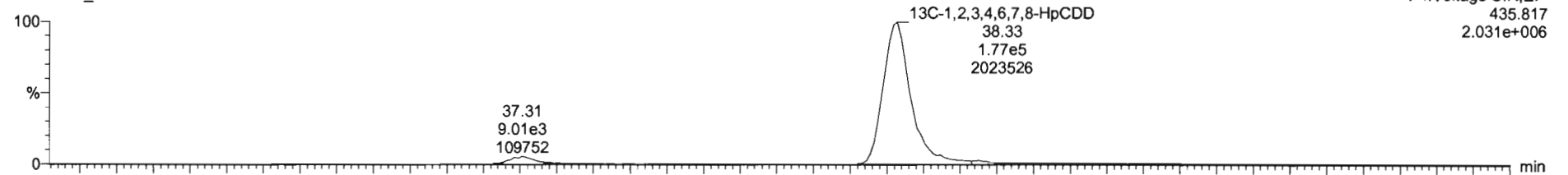


200508R1_5

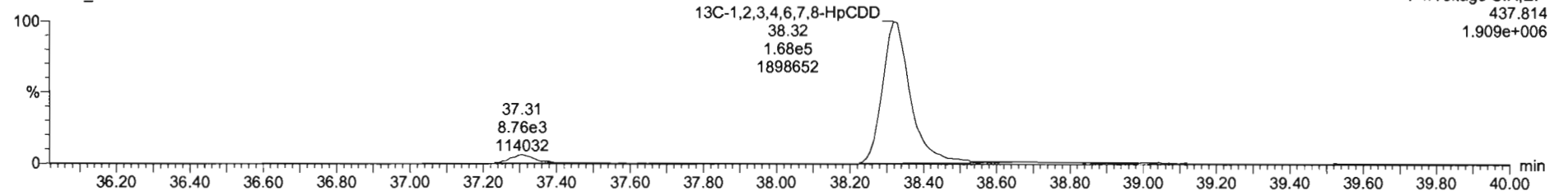


13C-1,2,3,4,6,7,8-HpCDD

200508R1_5

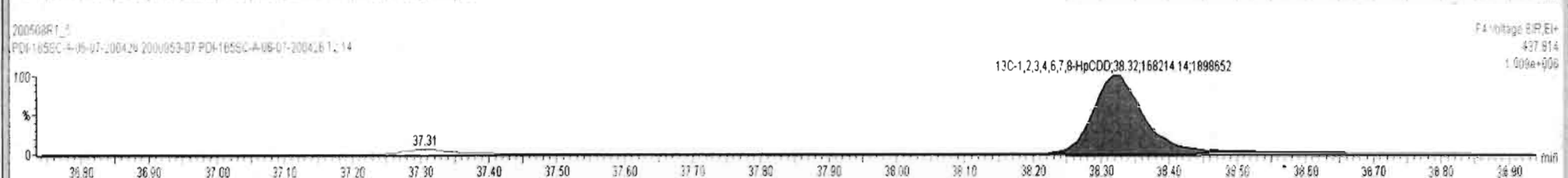
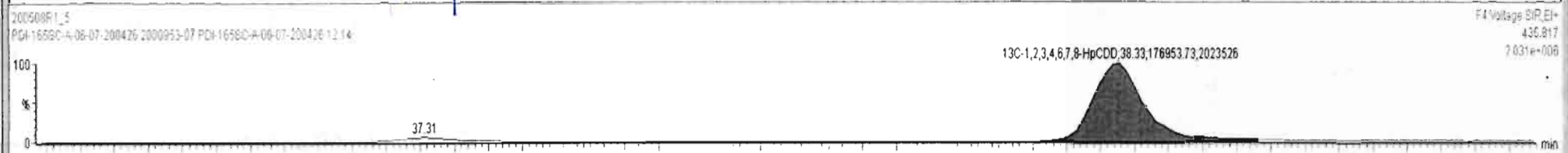
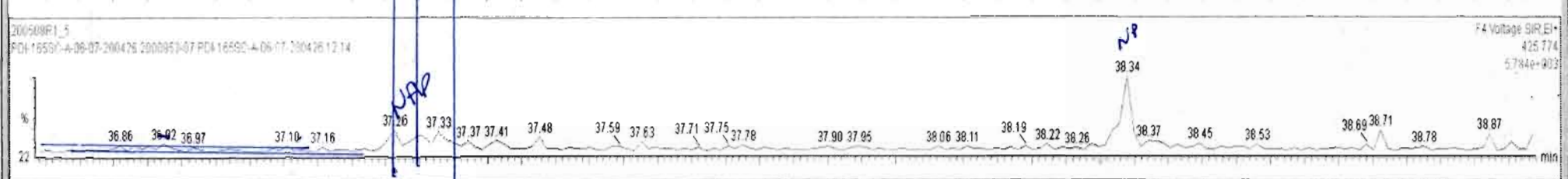
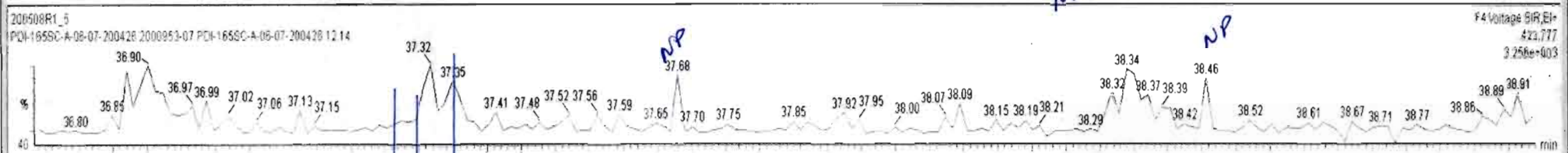


200508R1_5



Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.782					0.0378	
40 Total Penta-Dioxins				0.9425	10.782					0.0374	
41 Total Hexa-Dioxins				0.9145	10.782					0.0334	
42 Total Hepta-Dioxins				0.8979	10.782					0.0699	
43 Total Tetra-Furans				0.7871	10.782					0.0126	

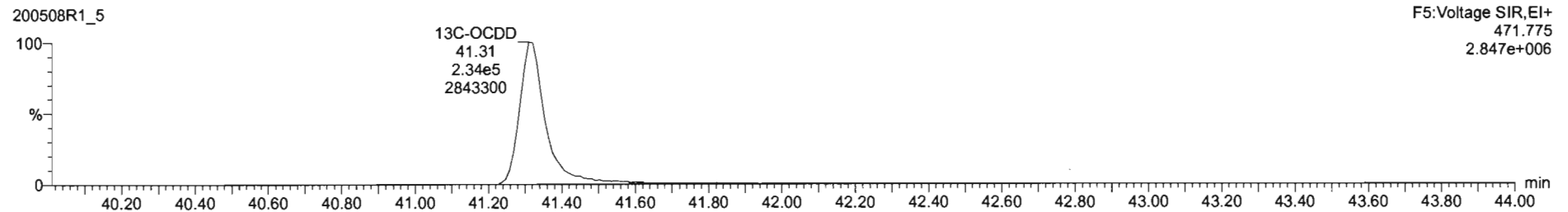
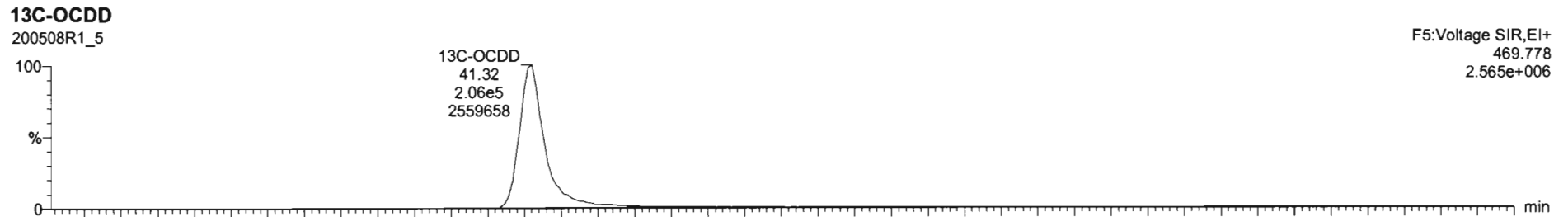
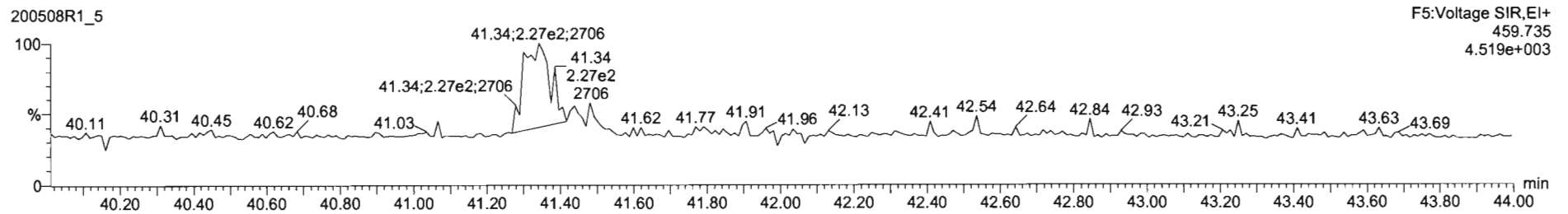
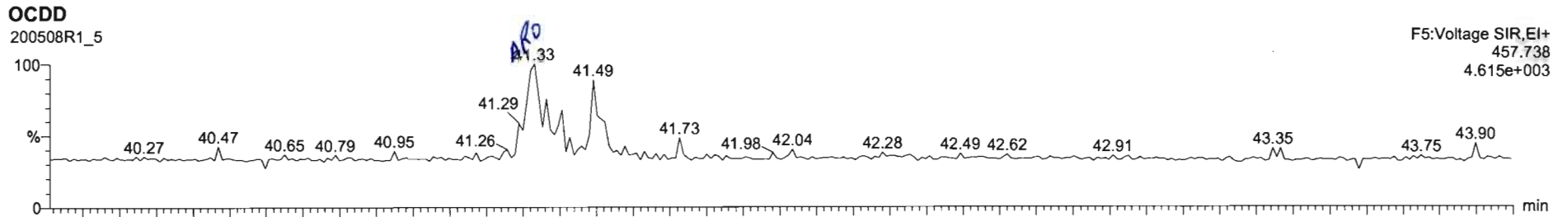
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1							



Dataset: Untitled

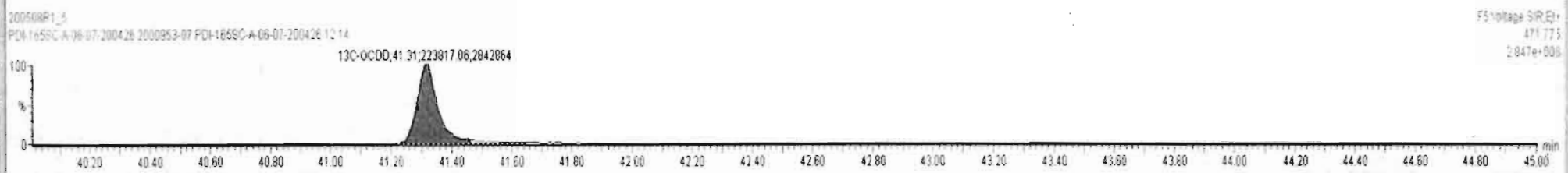
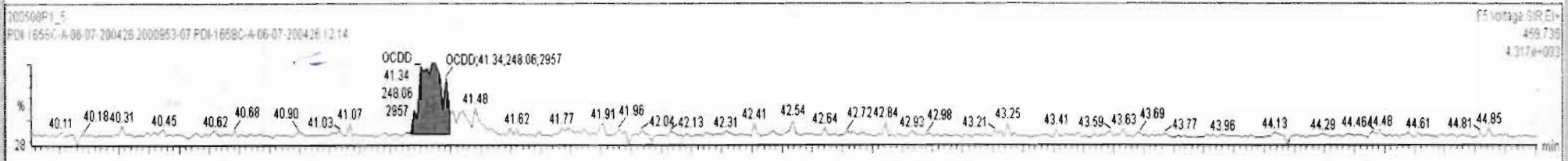
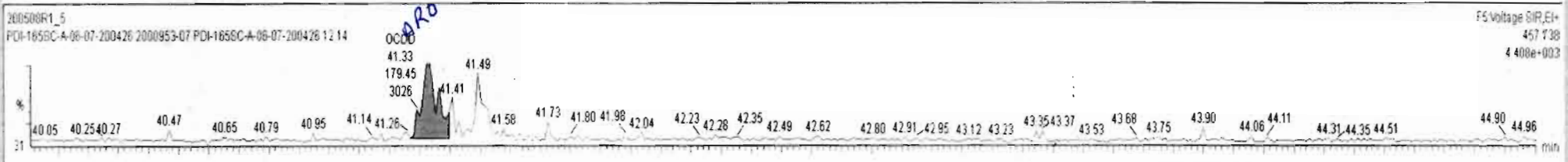
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Name: 200508R1_5, Date: 08-May-2020, Time: 11:16:17, ID: 2000953-07 PDI-165SC-A-06-07-200426 12.14, Description: PDI-165SC-A-06-07-200426



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
7 OCDD	4.29e2	0.72	YES	0.9335	10.782	41.33	1.000	0.403		0.117	0.358
8 2,3,7,8-TCDF			NO	0.7871	10.782					0.0345	
9 1,2,3,7,8-PeCDF			NO	0.9102	10.782					0.0395	
10 2,3,4,7,8-PeCDF			NO	0.9684	10.782					0.0379	
11 1,2,3,4,7,8-HxCDF			NO	0.8787	10.782					0.0307	

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



Dataset: Untitled

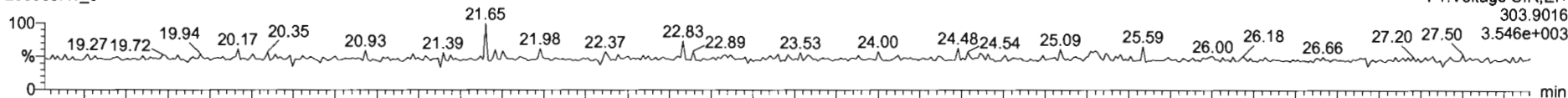
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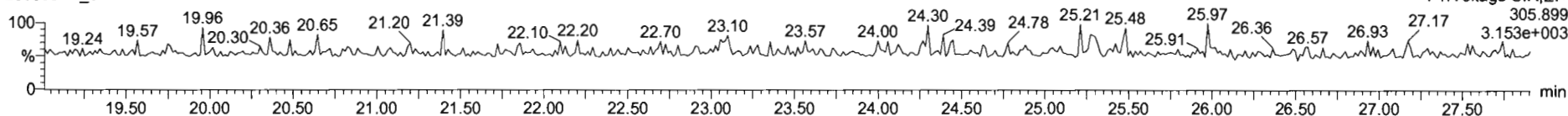
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2,3,7,8-TCDF

200508R1_5

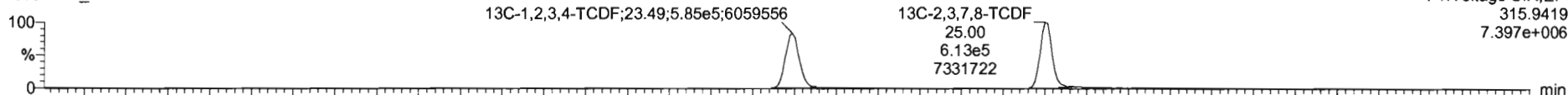


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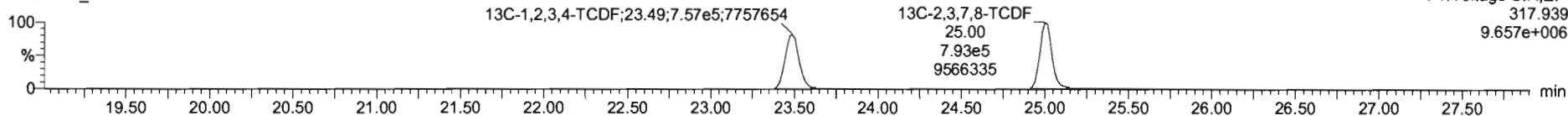


13C-2,3,7,8-TCDF

200508R1_5

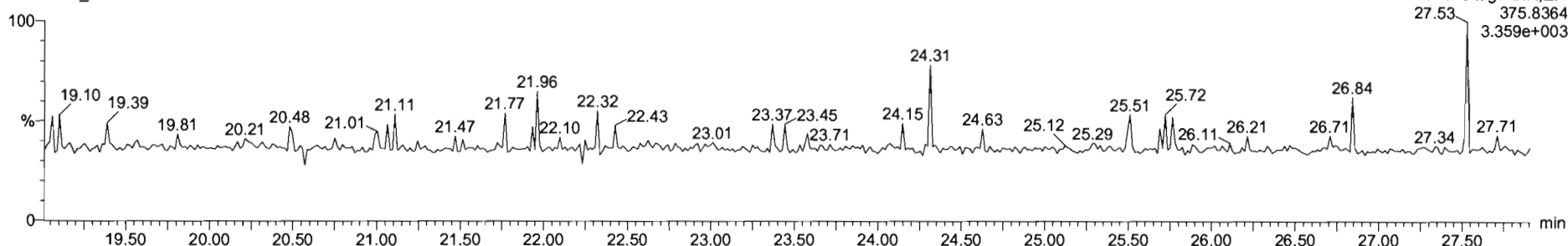


200508R1_5



DPE1

200508R1_5



Dataset: Untitled

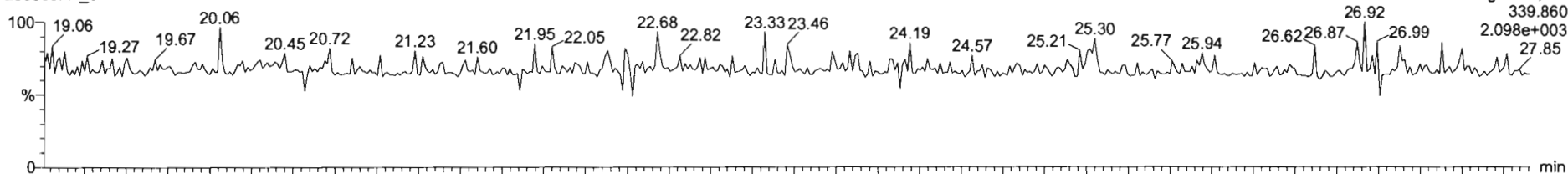
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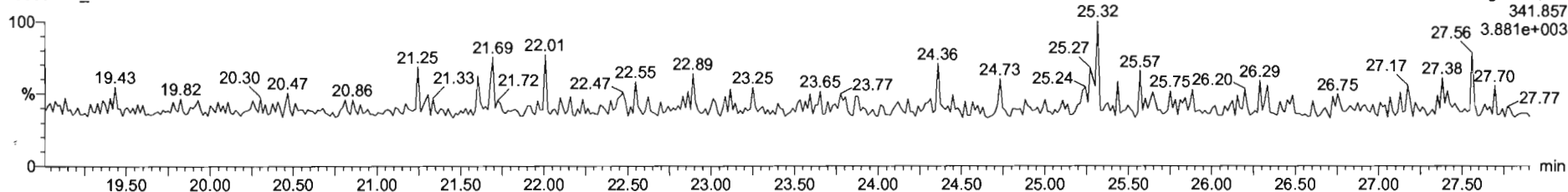
Name: 200508R1_5, Date: 08-May-2020, Time: 11:16:17, ID: 2000953-07 PDI-165SC-A-06-07-200426 12.14, Description: PDI-165SC-A-06-07-200426

1st Func. Penta-Furans

200508R1_5

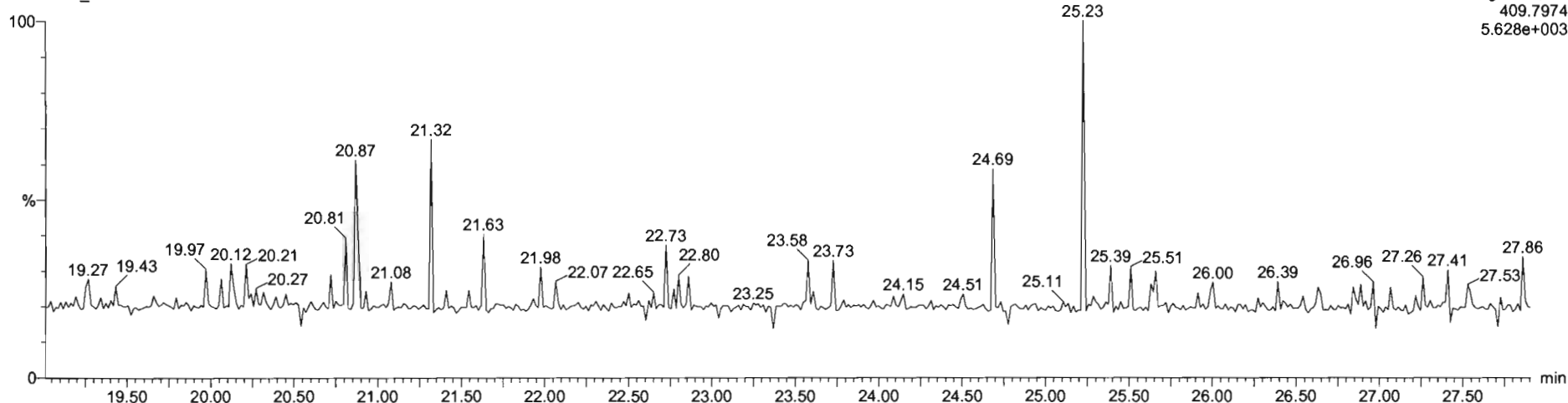


200508R1_5



DPE6

200508R1_5

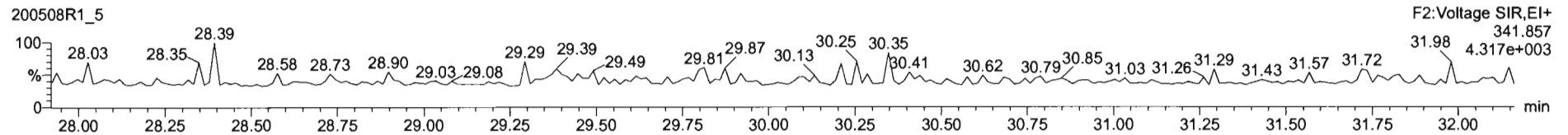
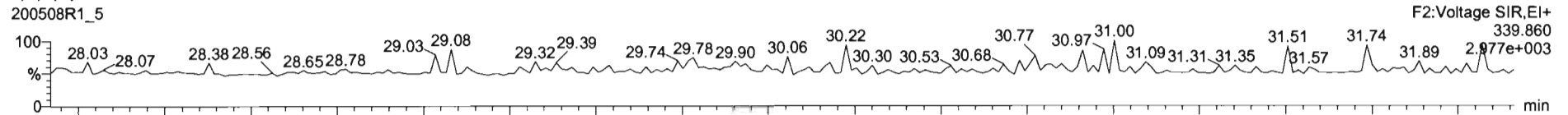


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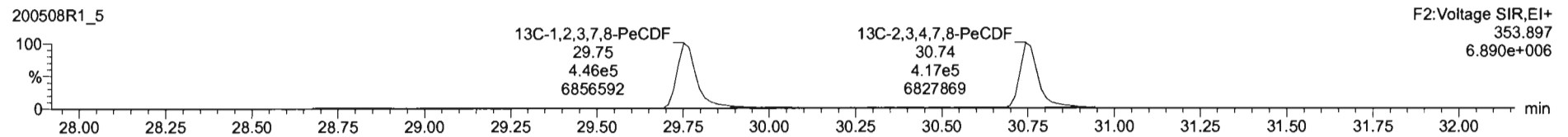
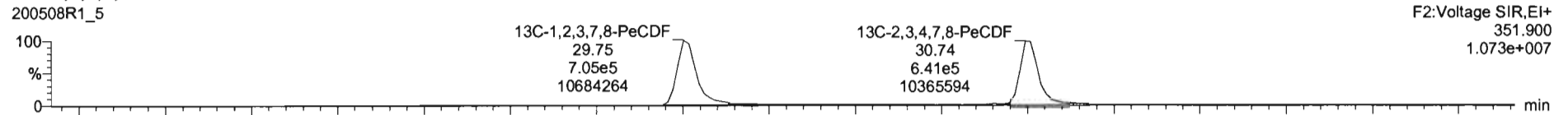
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Name: 200508R1_5, Date: 08-May-2020, Time: 11:16:17, ID: 2000953-07 PDI-165SC-A-06-07-200426 12.14, Description: PDI-165SC-A-06-07-200426

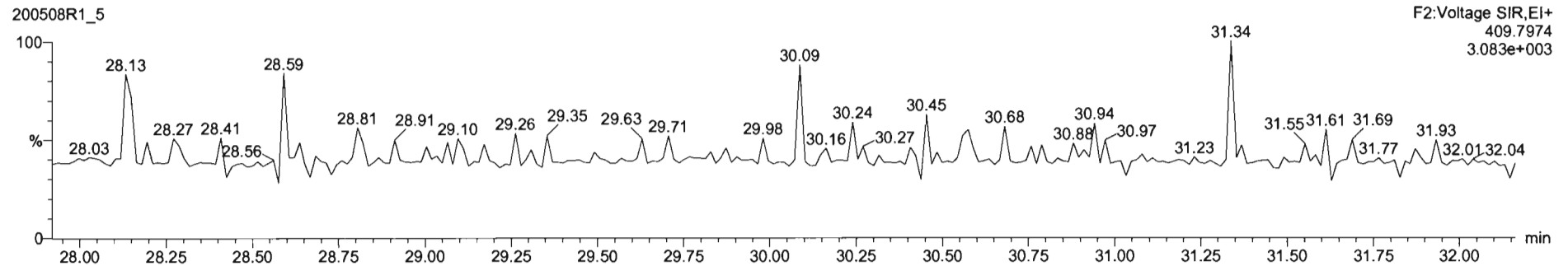
1,2,3,7,8-PeCDF



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



DPE2

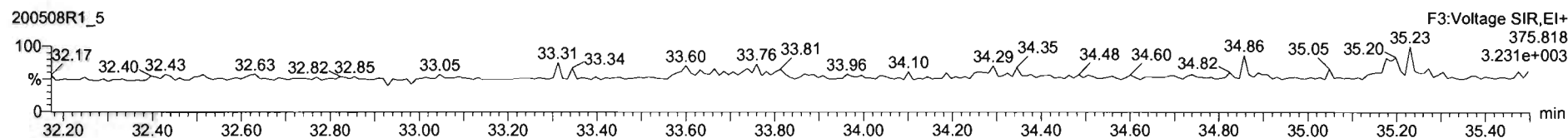
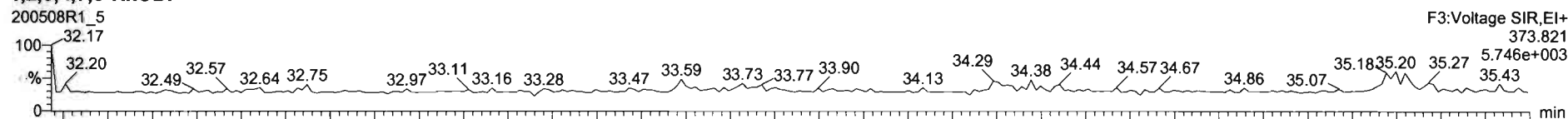


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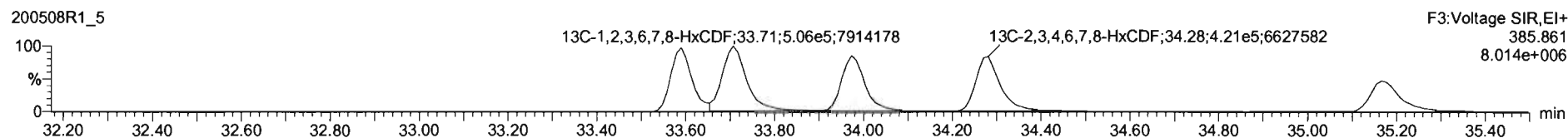
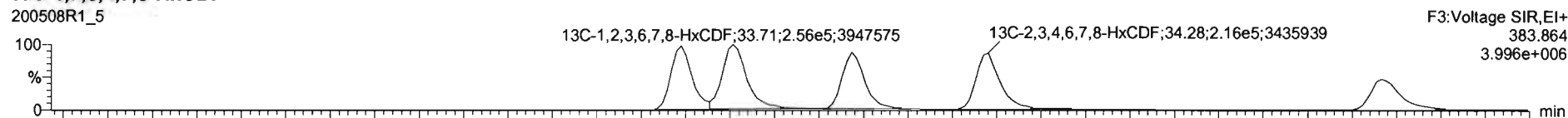
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Name: 200508R1_5, Date: 08-May-2020, Time: 11:16:17, ID: 2000953-07 PDI-165SC-A-06-07-200426 12.14, Description: PDI-165SC-A-06-07-200426

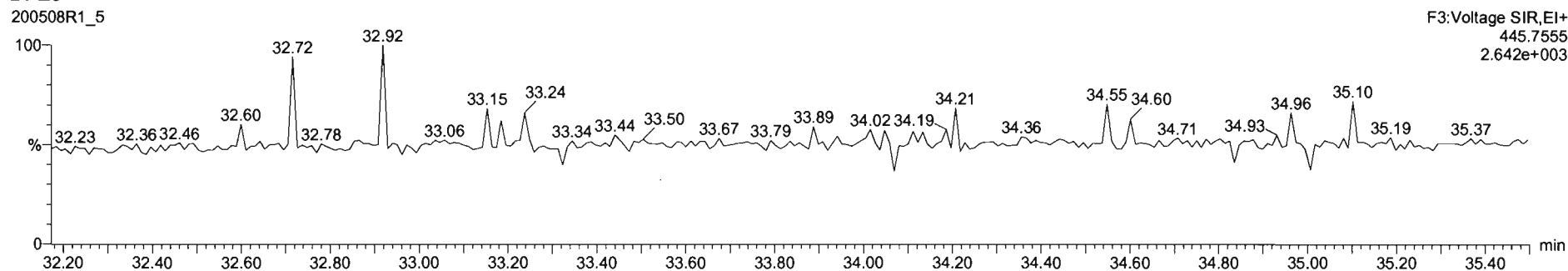
1,2,3,4,7,8-HxCDF



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



DPE3

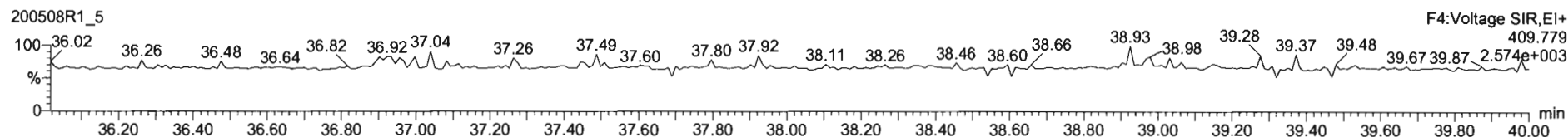
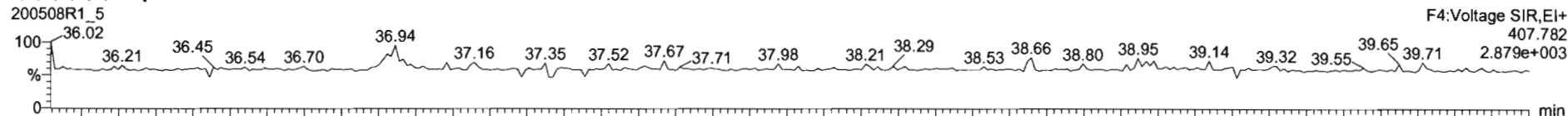


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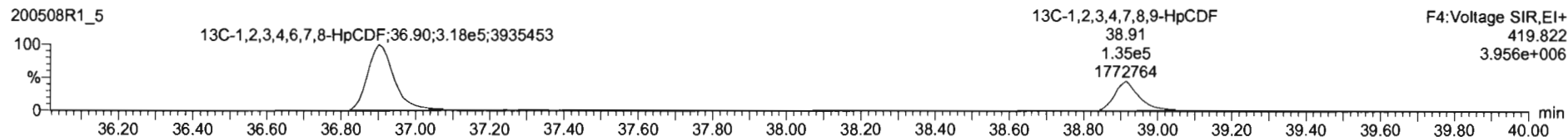
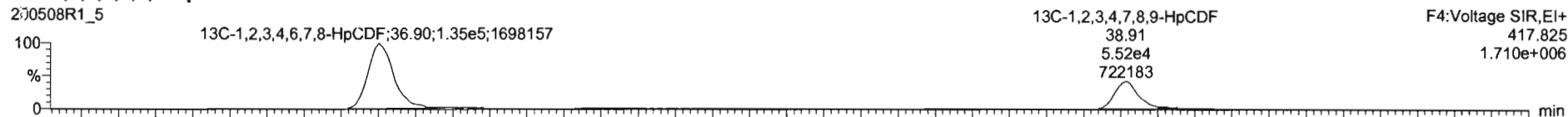
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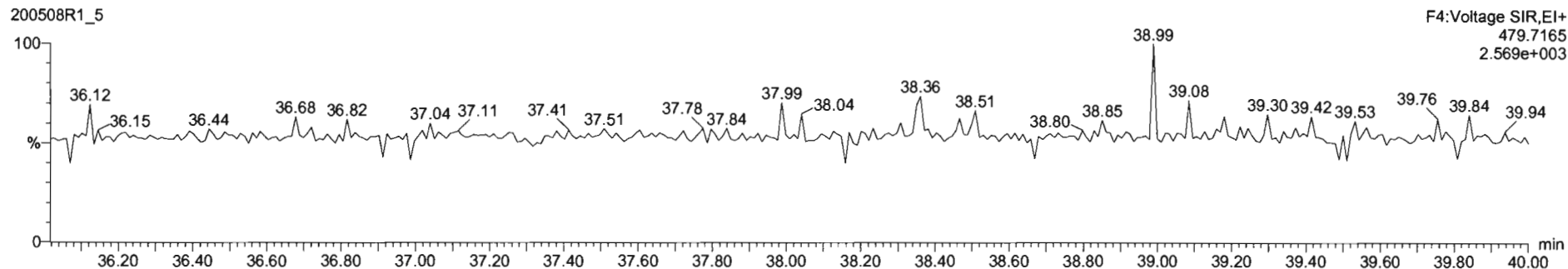
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13C-1,2,3,4,6,7,8-HpCDF



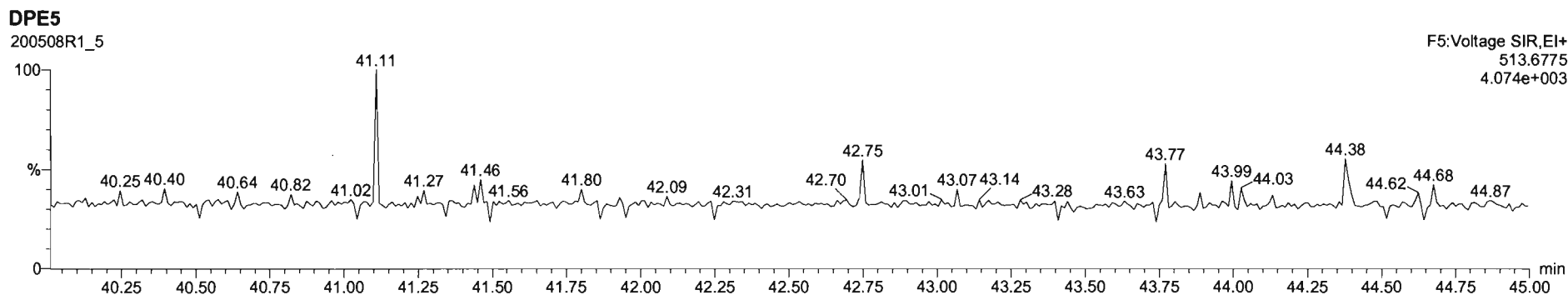
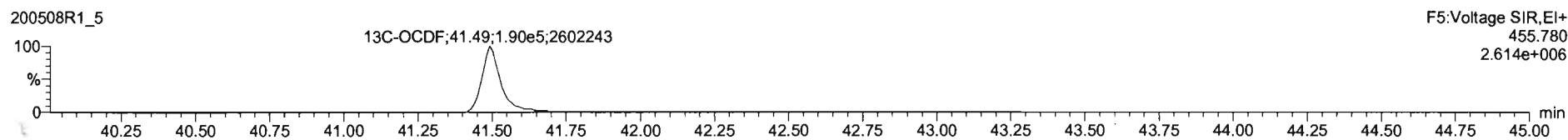
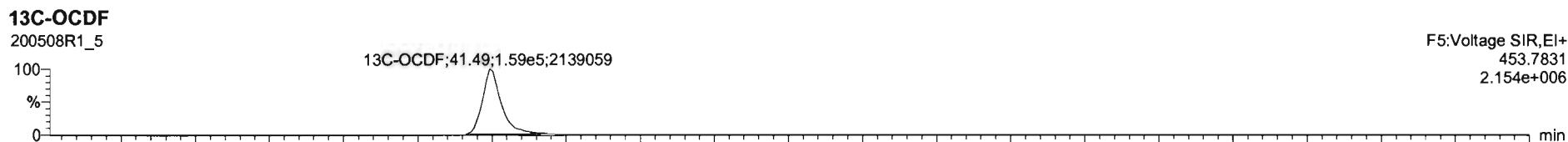
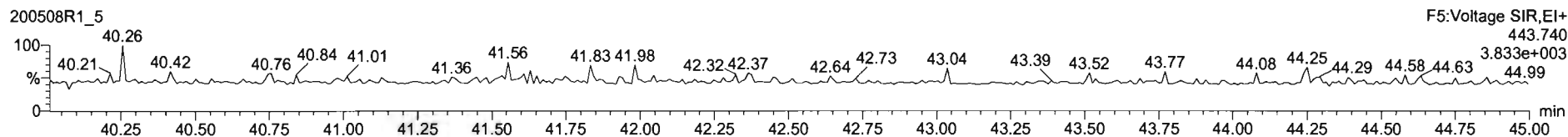
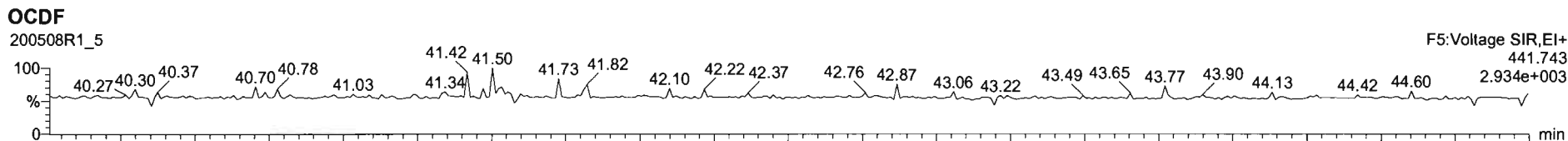
DPE4



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Name: 200508R1_5, Date: 08-May-2020, Time: 11:16:17, ID: 2000953-07 PDI-165SC-A-06-07-200426 12.14, Description: PDI-165SC-A-06-07-200426

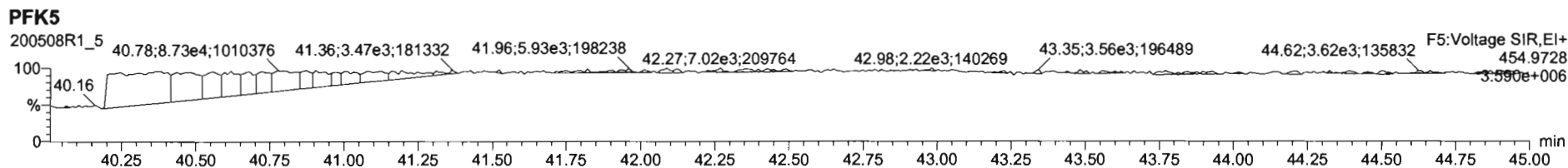
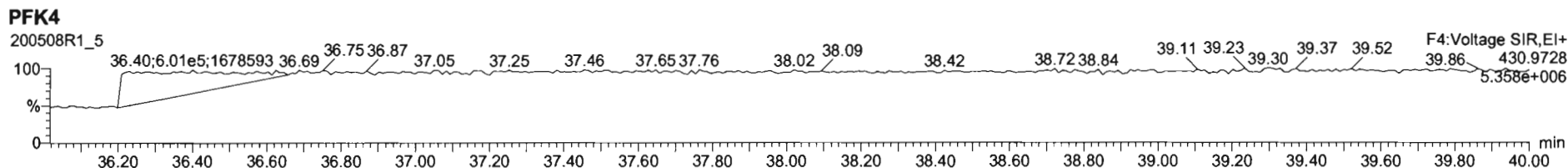
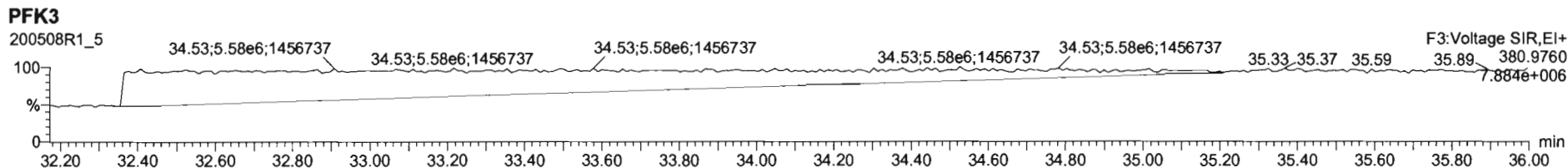
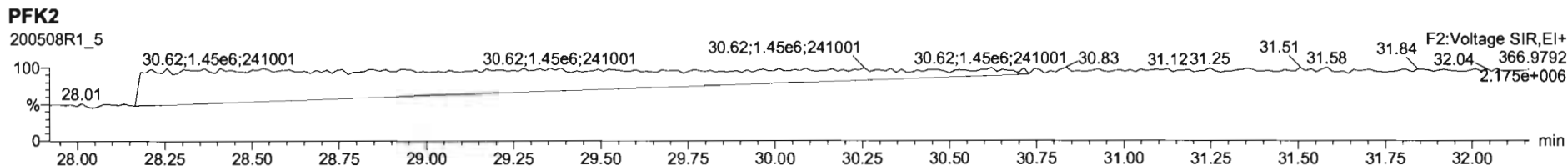
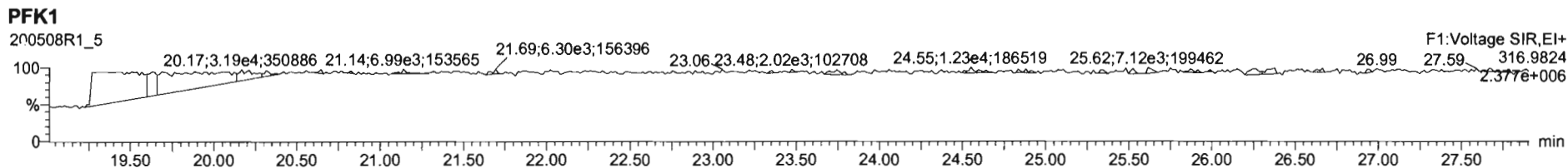


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Dataset: U:\VG12.PRO\Results\200508R1\200508R1-6.qld

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C7 05/15/2020

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Name: 200508R1_6, Date: 08-May-2020, Time: 12:02:30, ID: 2000953-08 PDI-165SC-A-07-08-200426 12.02, Description: PDI-165SC-A-07-08-200426

#	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	0.947	9.283	25.976		1.001				0.0848	
2	2 1,2,3,7,8-PeCDD			NO	0.942	9.283	31.086		1.001				0.0580	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	9.283	34.452		1.000				0.0914	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	9.283	34.548		1.000				0.0932	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	9.283	34.835		1.000				0.115	
6	6 1,2,3,4,6,7,8-HpCDD	6.37e2	0.90	NO	0.898	9.283	38.329	38.33	1.000	1.000	0.38005		0.176	0.380
7	7 OCDD	3.07e3	0.87	NO	0.933	9.283	41.322	41.33	1.000	1.000	2.6429		0.197	2.64
8	8 2,3,7,8-TCDF			NO	0.787	9.283	25.027		1.001				0.0337	
9	9 1,2,3,7,8-PeCDF			NO	0.910	9.283	29.773		1.001				0.0184	
10	10 2,3,4,7,8-PeCDF			NO	0.966	9.283	30.774		1.001				0.0429	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	9.283	33.579		1.000				0.0369	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	9.283	33.717		1.000				0.0336	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	9.283	34.305		1.001				0.0396	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	9.283	35.166		1.000				0.0730	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	9.283	36.939		1.001				0.0546	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	9.283	38.904		1.000				0.108	
17	17 OCDF	1.64e2	0.87	NO	0.802	9.283	41.503	41.50	1.000	1.000	0.19373		0.189	0.194
18	18 13C-2,3,7,8-TCDD	1.19e6	0.78	NO	1.16	9.283	25.938	25.94	1.026	1.027	221.55	103	0.330	
19	19 13C-1,2,3,7,8-PeCDD	8.41e5	0.62	NO	0.847	9.283	31.013	31.06	1.227	1.229	213.32	99.0	0.400	
20	20 13C-1,2,3,4,7,8-HxCDD	5.30e5	1.27	NO	0.750	9.283	34.452	34.44	1.014	1.014	225.16	105	0.814	
21	21 13C-1,2,3,6,7,8-HxCDD	7.03e5	1.28	NO	0.963	9.283	34.564	34.55	1.017	1.017	232.34	108	0.634	
22	22 13C-1,2,3,7,8,9-HxCDD	5.93e5	1.29	NO	0.838	9.283	34.833	34.83	1.025	1.025	225.65	105	0.729	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.02e5	1.04	NO	0.641	9.283	38.318	38.32	1.128	1.128	199.56	92.6	0.919	
24	24 13C-OCDD	5.37e5	0.88	NO	0.586	9.283	41.308	41.32	1.216	1.216	291.51	67.7	0.690	
25	25 13C-2,3,7,8-TCDF	1.53e6	0.78	NO	1.03	9.283	25.001	25.00	0.989	0.989	219.44	102	0.521	
26	26 13C-1,2,3,7,8-PeCDF	1.26e6	1.58	NO	0.845	9.283	29.706	29.75	1.176	1.177	221.51	103	1.03	
27	27 13C-2,3,4,7,8-PeCDF	1.16e6	1.55	NO	0.814	9.283	30.694	30.74	1.215	1.217	212.05	98.4	1.07	
28	28 13C-1,2,3,4,7,8-HxCDF	7.07e5	0.51	NO	1.00	9.283	33.593	33.58	0.989	0.988	223.92	104	0.900	
29	29 13C-1,2,3,6,7,8-HxCDF	8.59e5	0.50	NO	1.14	9.283	33.715	33.71	0.992	0.992	240.61	112	0.795	
30	30 13C-2,3,4,6,7,8-HxCDF	7.32e5	0.52	NO	1.02	9.283	34.282	34.27	1.009	1.009	228.15	106	0.885	
31	31 13C-1,2,3,7,8,9-HxCDF	5.13e5	0.49	NO	0.845	9.283	35.172	35.17	1.035	1.035	193.41	89.8	1.07	

Dataset: U:\VG12.PRO\Results\200508R1\200508R1-6.qld

Last Altered: Friday, May 08, 2020 15:05:01 Pacific Daylight Time

Printed: Friday, May 08, 2020 15:09:51 Pacific Daylight Time

Name: 200508R1_6, Date: 08-May-2020, Time: 12:02:30, ID: 2000953-08 PDI-165SC-A-07-08-200426 12.02, Description: PDI-165SC-A-07-08-200426

#	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	5.31e5	0.41	NO	0.771	9.283	36.901	36.90	1.086	1.086	219.23	102	1.06	
33	13C-1,2,3,4,7,8,9-HpCDF	2.25e5	0.42	NO	0.482	9.283	38.909	38.90	1.145	1.145	148.29	68.8	1.69	
34	13C-OCDF	4.56e5	0.87	NO	0.669	9.283	41.478	41.50	1.221	1.222	217.12	50.4	0.564	
35	37Cl-2,3,7,8-TCDD	4.33e5			1.10	9.283	25.968	25.98	1.028	1.028	84.704	98.3	0.0945	
36	13C-1,2,3,4-TCDD	1.00e6	0.79	NO	1.00	9.283	25.350	25.27	1.000	1.000	215.44	100	0.383	
37	13C-1,2,3,4-TCDF	1.45e6	0.77	NO	1.00	9.283	23.560	23.49	1.000	1.000	215.44	100	0.539	
38	13C-1,2,3,4,6,9-HxCDF	6.76e5	0.51	NO	1.00	9.283	34.000	33.97	1.000	1.000	215.44	100	0.904	
39	Total Tetra-Dioxins				0.947	9.283	24.620		0.000		0.12694		0.0848	0.127
40	Total Penta-Dioxins				0.942	9.283	29.960		0.000				0.0275	
41	Total Hexa-Dioxins				0.915	9.283	33.635		0.000		0.28952		0.104	0.290
42	Total Hepta-Dioxins				0.898	9.283	37.640		0.000		1.0011		0.176	1.00
43	Total Tetra-Furans				0.787	9.283	23.610		0.000				0.0127	
44	1st Func. Penta-Furans				0.910	9.283	27.090		0.000				0.00995	
45	Total Penta-Furans				0.910	9.283	29.275		0.000				0.0185	
46	Total Hexa-Furans				0.922	9.283	33.555		0.000				0.0259	
47	Total Hepta-Furans				0.871	9.283	37.835		0.000				0.0369	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200508R1\200508R1-6.qld

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Printed: Friday, May 08, 2020 15:09:51 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200508R1_6, Date: 08-May-2020, Time: 12:02:30, ID: 2000953-08 PDI-165SC-A-07-08-200426 12.02, Description: PDI-165SC-A-07-08-200426

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.65	4.603e3	4.712e3	2.921e2	3.750e2	0.78	NO	6.671e2	0.12694	0.12694	0.0848

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.99	8.438e3	8.218e3	3.953e2	3.528e2	1.12	NO	7.481e2	0.28952	0.28952	0.104

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.33	6.679e3	7.197e3	5.291e2	5.113e2	1.03	NO	1.040e3	0.62100	0.62100	0.176
2	1,2,3,4,6,7,8-HpCDD	38.33	4.592e3	5.152e3	3.012e2	3.355e2	0.90	NO	6.367e2	0.38005	0.38005	0.176

Tetra-Furans

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

Penta-Furans function 1

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

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Name: 200508R1_6, Date: 08-May-2020, Time: 12:02:30, ID: 2000953-08 PDI-165SC-A-07-08-200426 12.02, Description: PDI-165SC-A-07-08-200426

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
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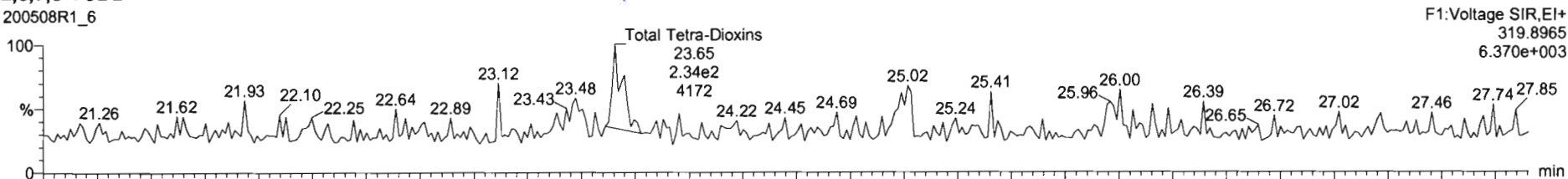
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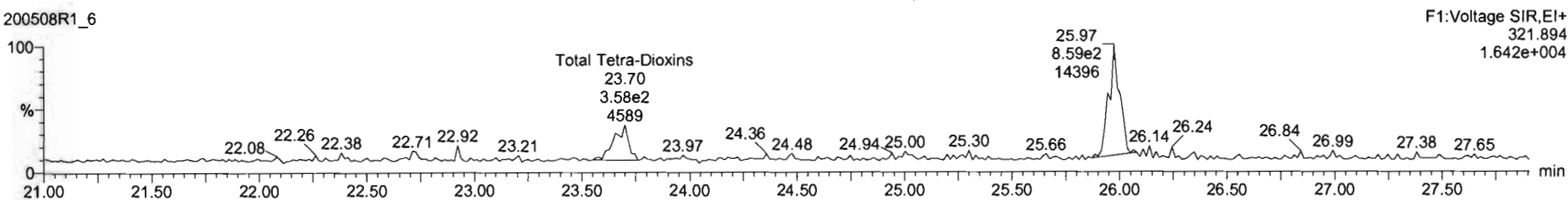
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2,3,7,8-TCDD

200508R1_6

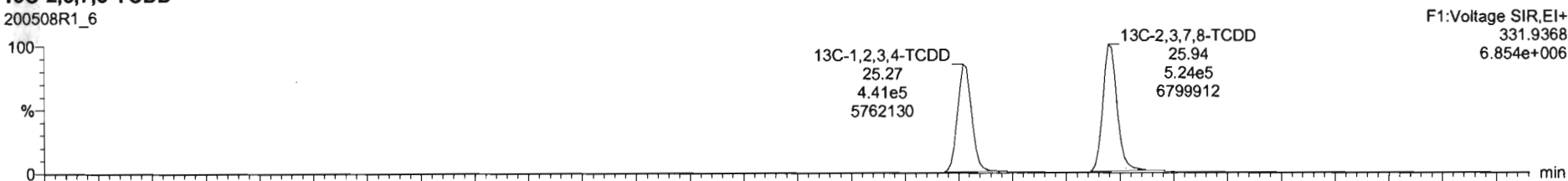


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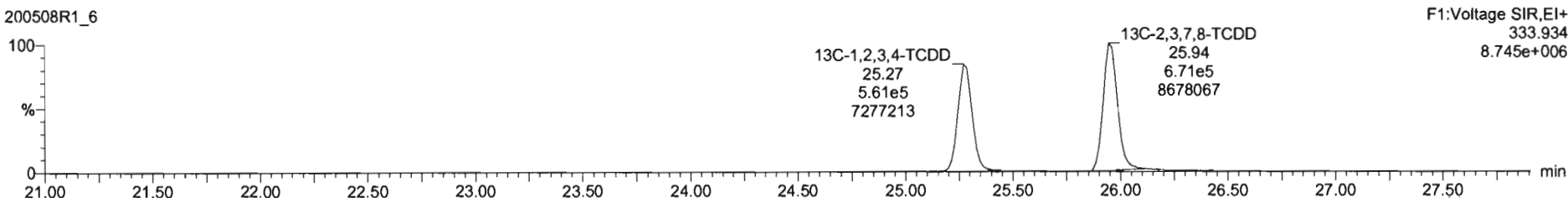


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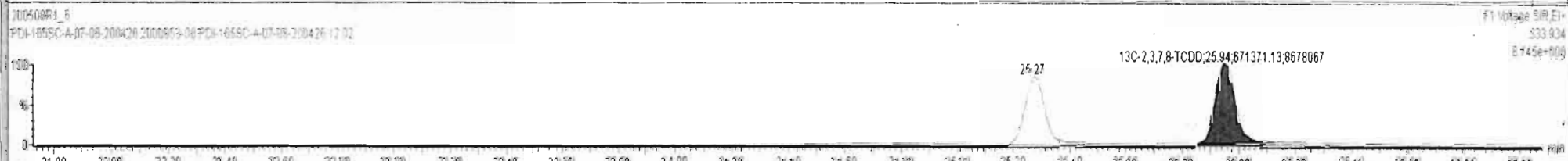
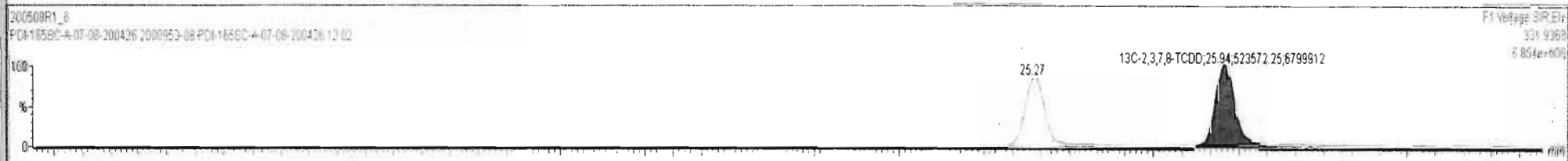
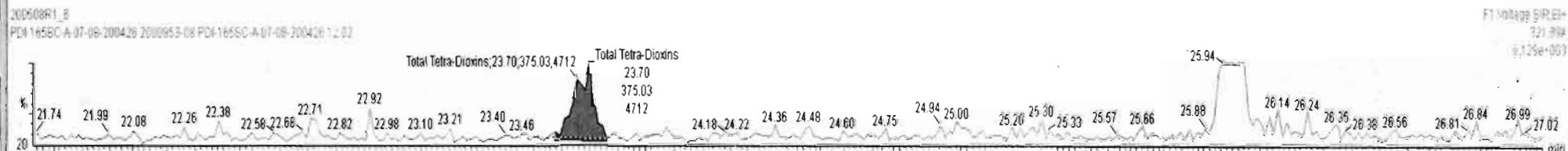
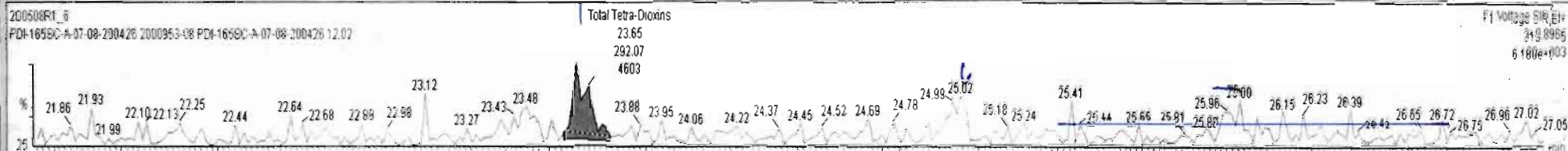


200508R1_6



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	9.263			0.127		0.0848	0.127
40 Total Penta-Dioxins				0.9425	9.263					0.0275	
41 Total Hexa-Dioxins				0.9145	9.263			0.299		0.104	0.299
42 Total Hepta-Dioxins				0.8979	9.263			0.669		0.176	0.944
43 Total Tetra-Furans				0.7874	0.767					0.0477	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.65	2.921e2	3.750e2	0.78	NO	0.12694	0.12694



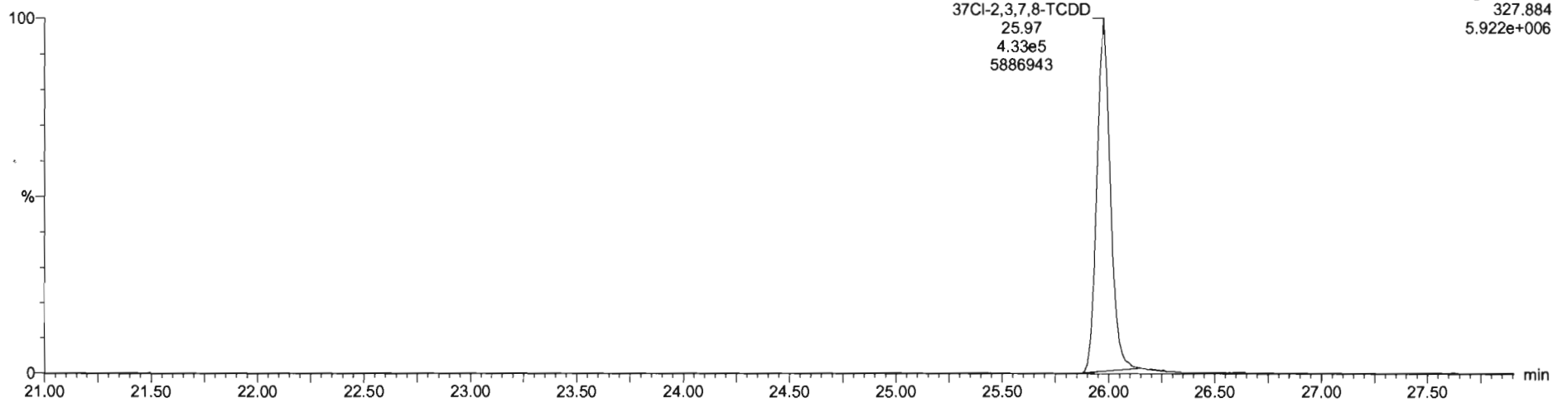
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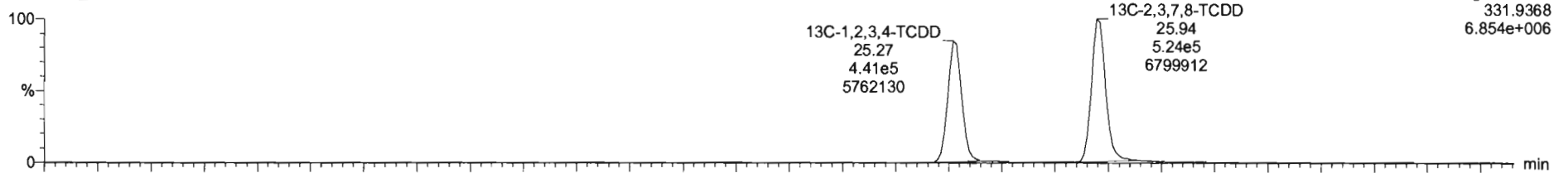
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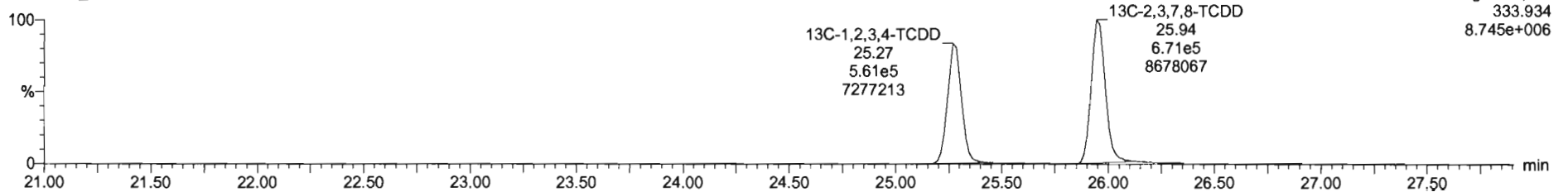


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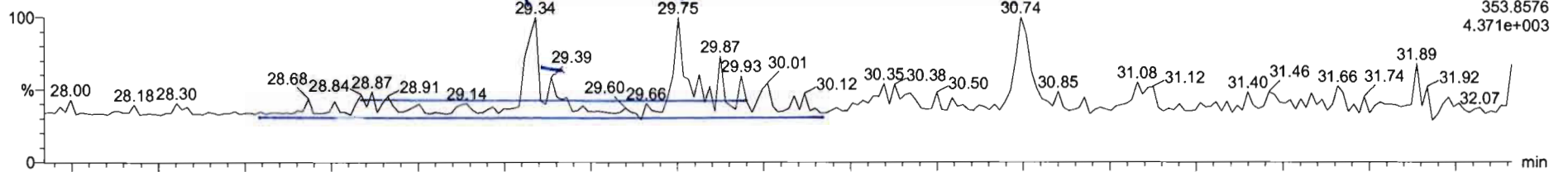
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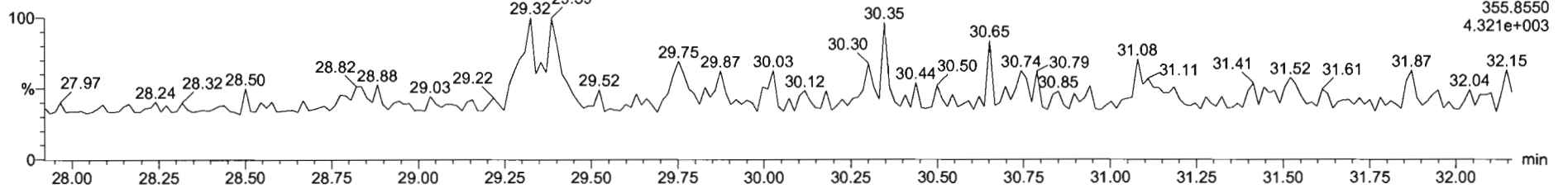
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1,2,3,7,8-PeCDD

200508R1_6

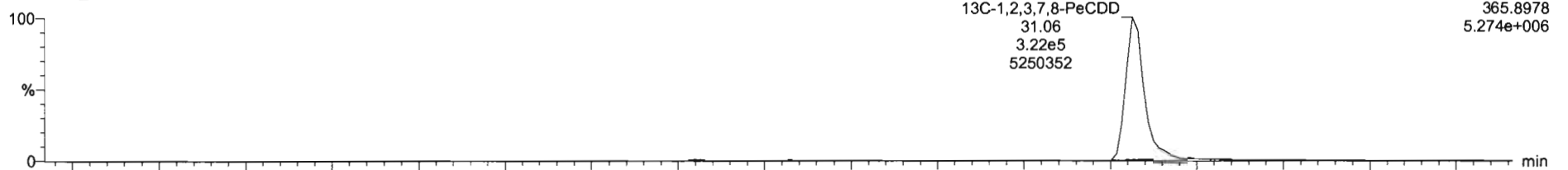


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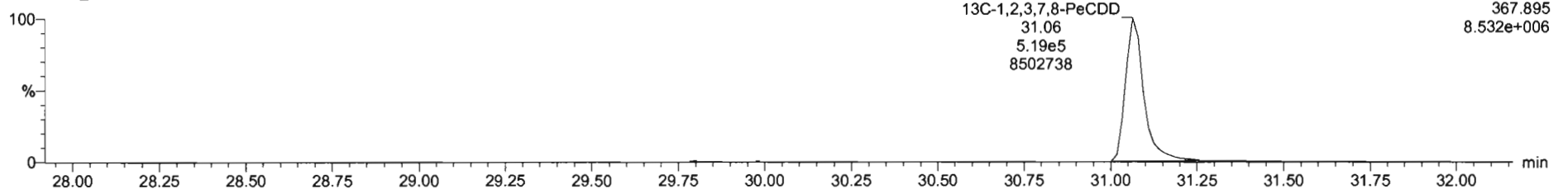


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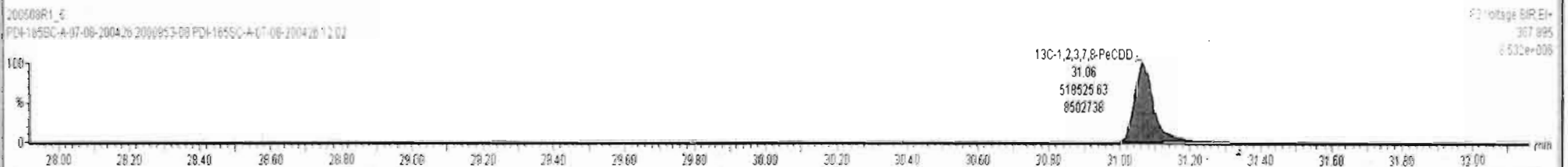
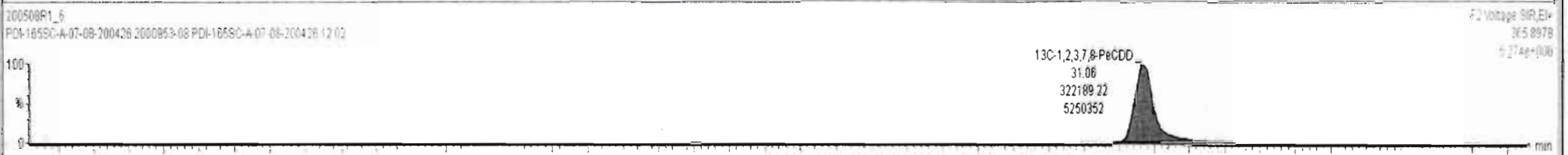
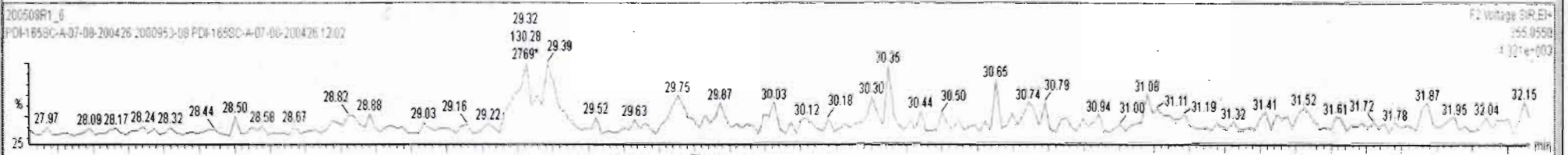
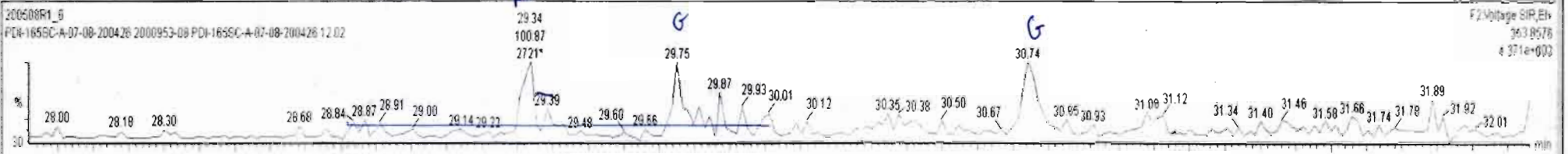
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200508R1_6 - 2000953-08 PDI-1655C-A-07-08-200426 12 02 - PDI-1655C-A-07-08-200426

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	9.263			0.127		0.0848	0.127
40 Total Penta-Dioxins				0.9425	9.263					0.0275	
41 Total Hexa-Dioxins				0.9145	9.263			0.298		0.104	0.298
42 Total Hepta-Dioxins				0.8979	9.263			0.668		0.176	0.944
43 Total Tetra-Furans				0.7821	9.263					0.0477	

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

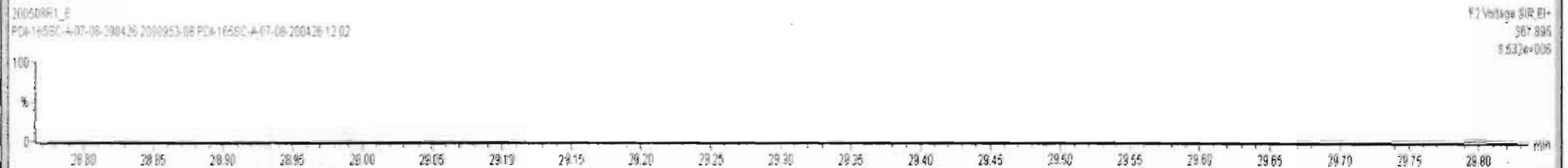
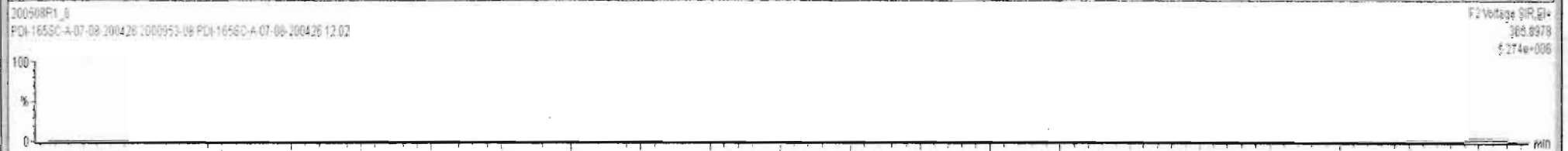
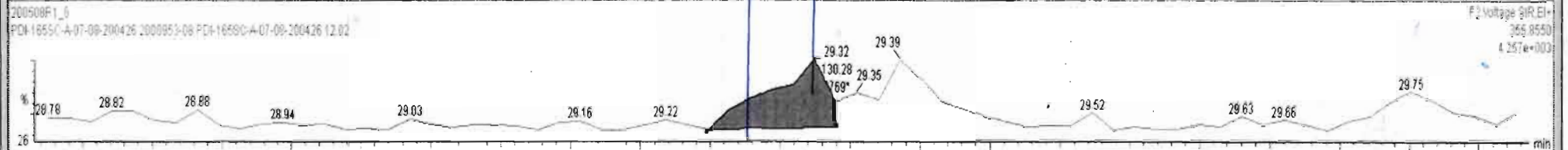
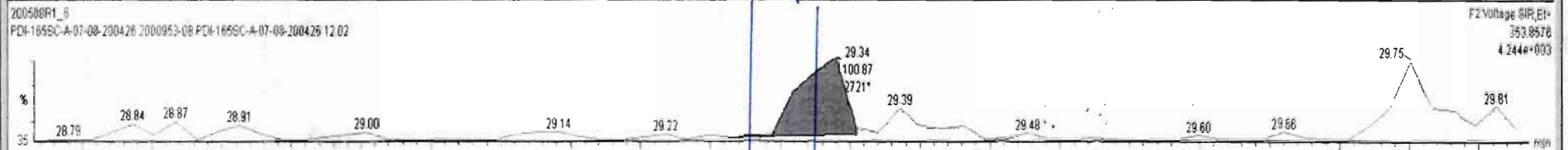




200508R1_6 - 2000953-08 PDI-1655C-A-07-08-200426 12.02 - PDI-1655C-A-07-08-200426

Name	Resp	RA	n/y	RF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	9.283			0.127		0.0848	0.127
40 Total Penta-Dioxins				0.9425	9.283					0.0275	
41 Total Hexa-Dioxins				0.9145	9.283			0.239		0.104	0.239
42 Total Hepta-Dioxins				0.8979	9.283			0.669		0.176	0.944
43 Total Tetra-Chloro				0.7871	9.283					0.0477	

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



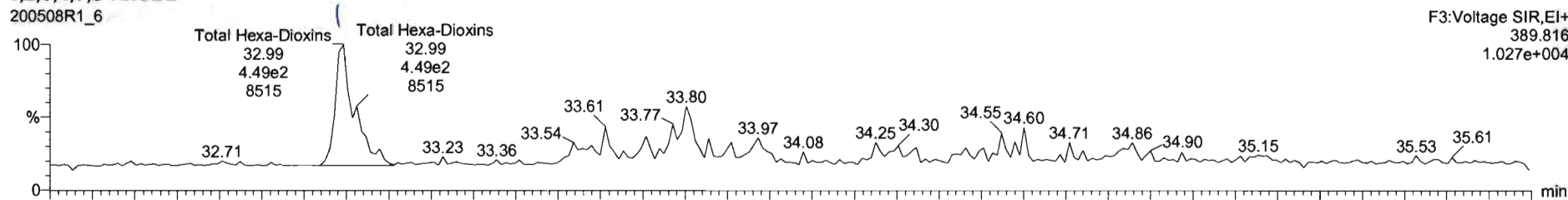
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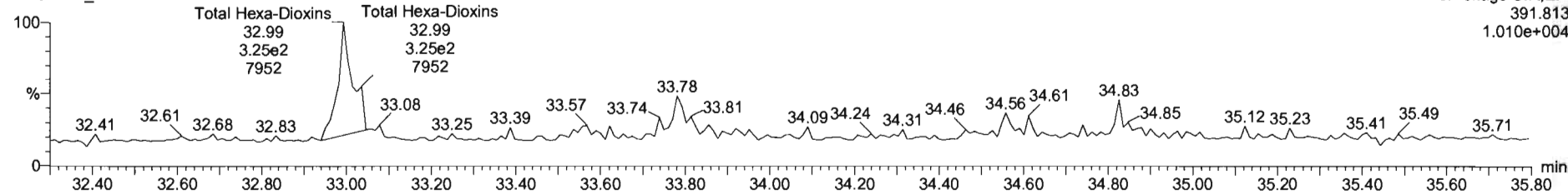
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1,2,3,4,7,8-HxCDD

200508R1_6

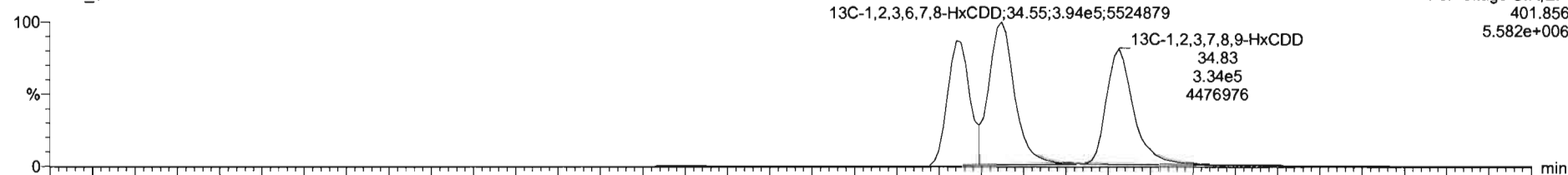


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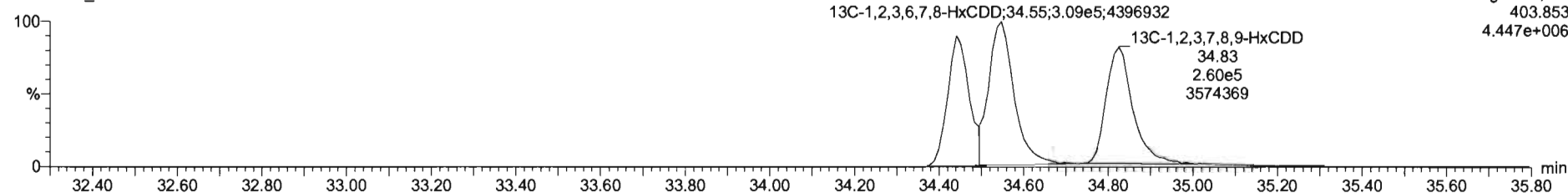


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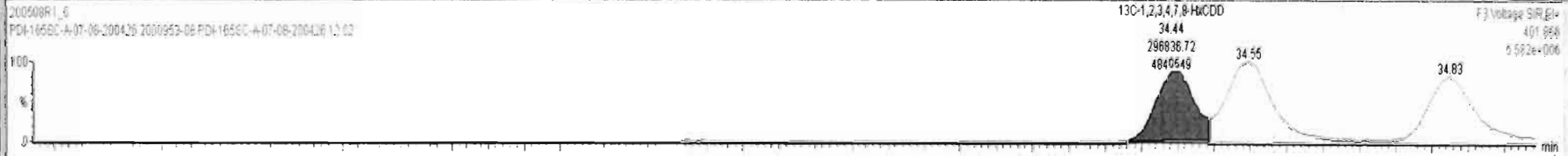
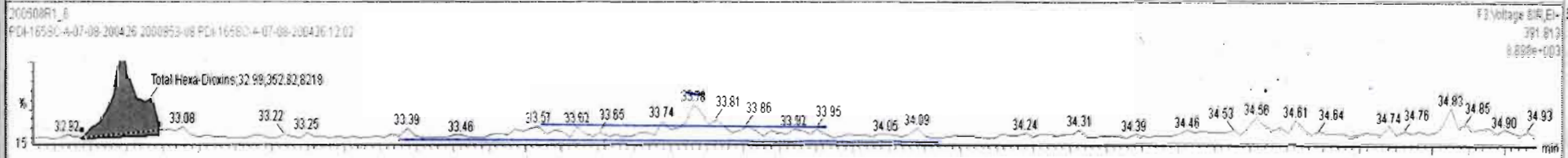
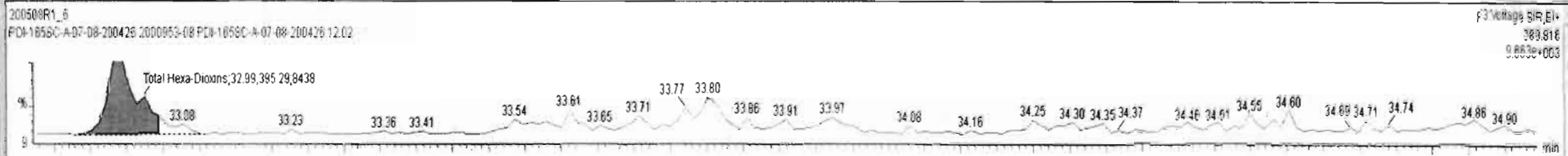


200508R1_6



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	9.263			0.127	0.0848	0.127	
40 Total Penta-Dioxins				0.9425	9.263				0.0275		
41 Total Hexa-Dioxins				0.9145	9.263			0.290	0.104	0.290	
42 Total Hepta-Dioxins				0.8979	9.263			0.669	0.176	0.944	
43 Total Tetra-Furane				0.7824	9.263				0.0427		

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.99	3.953e2	3.526e2	1.12	NO	0.28952	0.28952

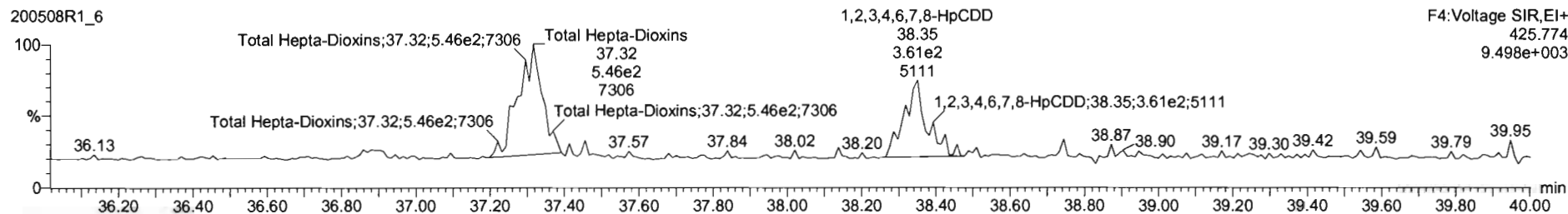
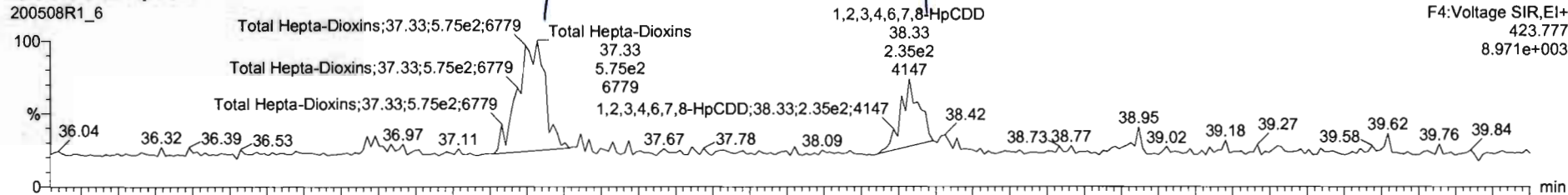


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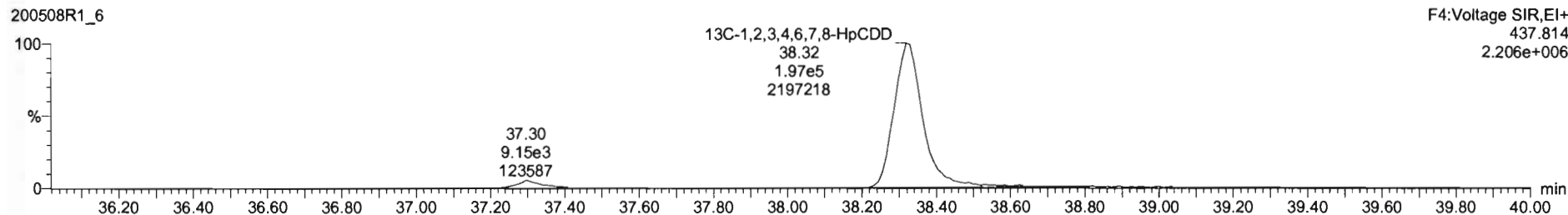
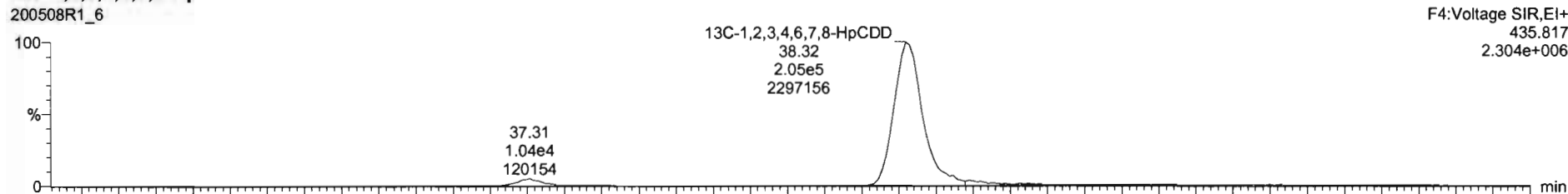
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1,2,3,4,6,7,8-HpCDD

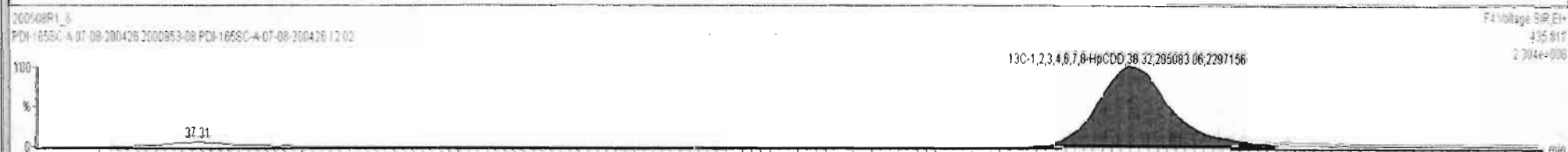
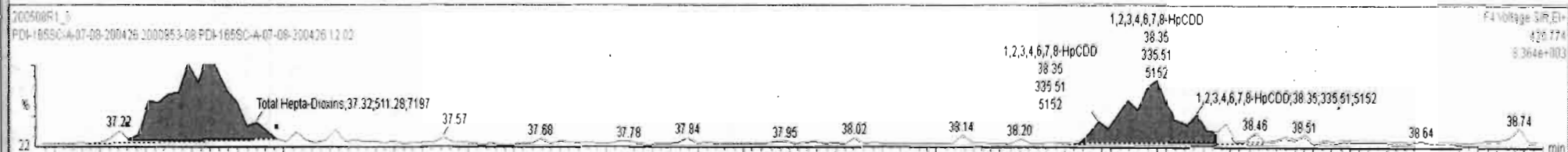
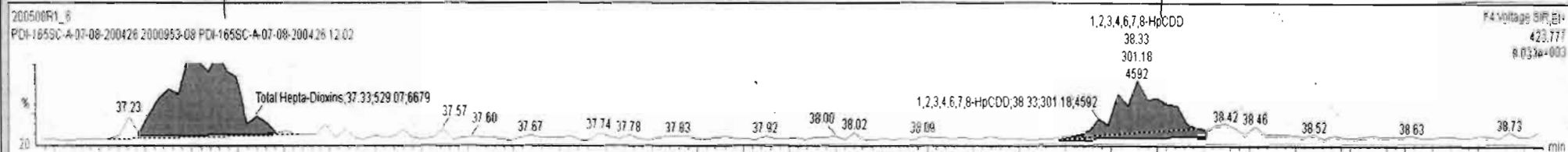


13C-1,2,3,4,6,7,8-HpCDD



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	9.263			0.127		0.0848	0.127
40 Total Penta-Dioxins				0.9425	9.263					0.0275	
41 Total Hexa-Dioxins				0.9145	9.263			0.290		0.104	0.290
42 Total Hepta-Dioxins				0.8979	9.263			1.00		0.176	1.00
42 Total Tetra-Ethane				0.7921	0.762					0.0472	

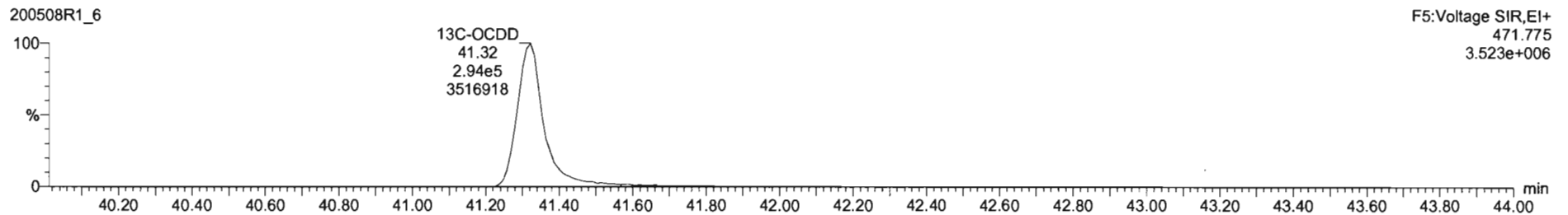
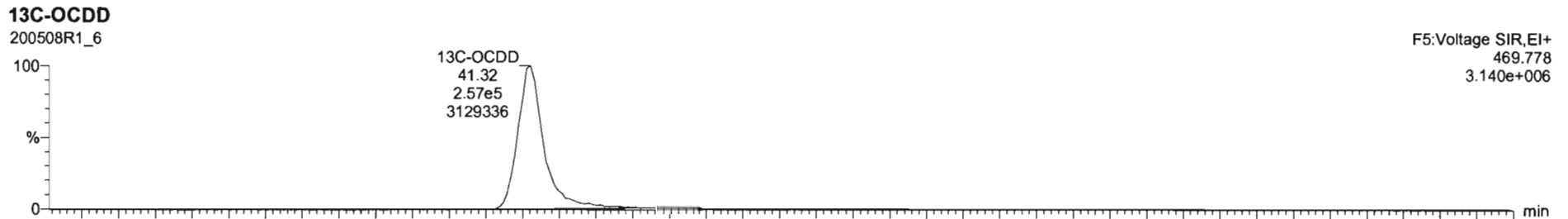
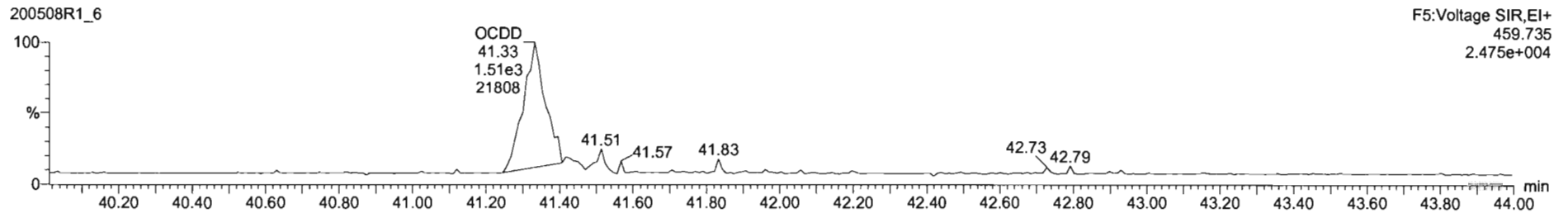
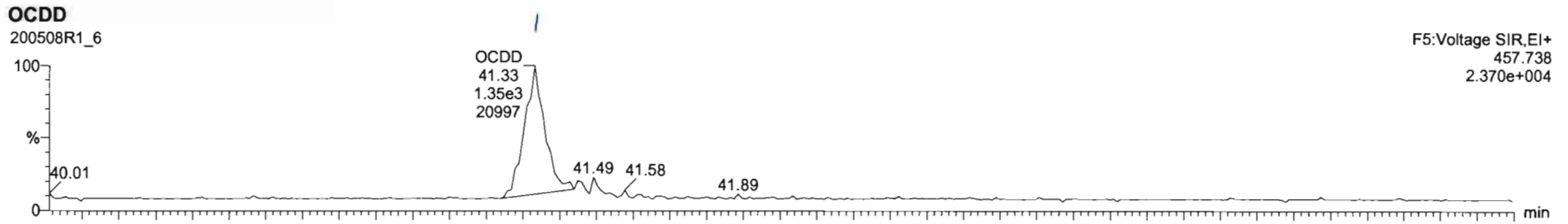
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hepta-Dioxins	37.33	5.291e2	5.113e2	1.03	NO	0.62100	0.62100
2 1,2,3,4,6,7,8-HpCDD	38.33	3.012e2	3.355e2	0.90	NO	0.38005	0.38005



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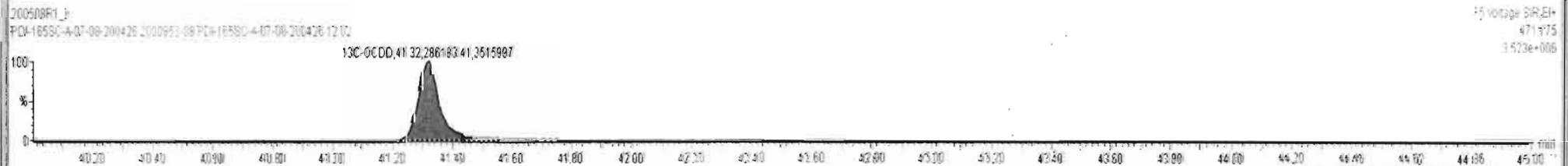
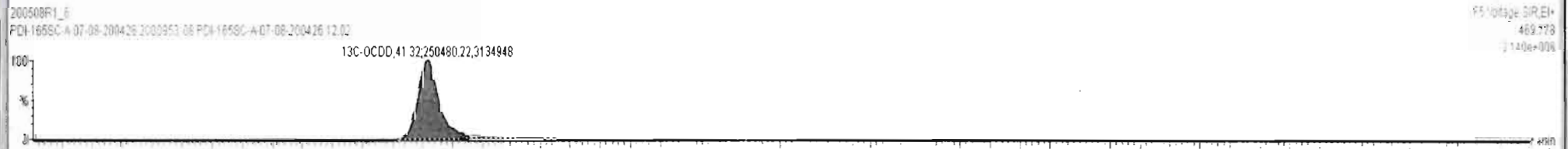
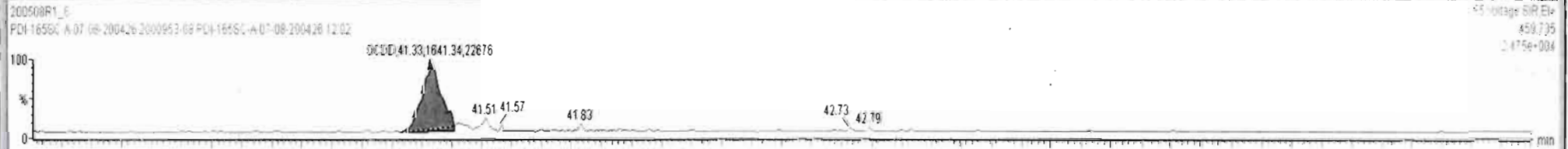
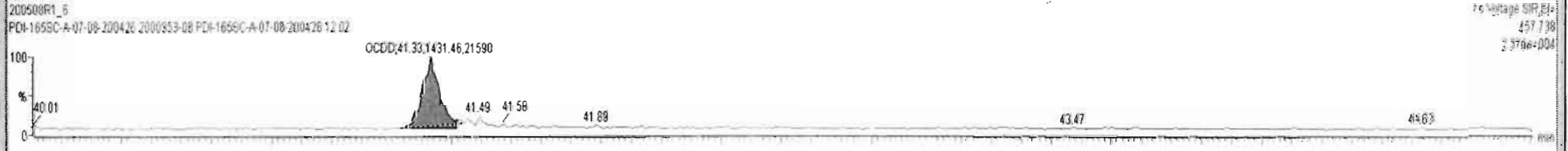




200508R1_6 - 2000953-08.PD-1655C-A-07-08-200426 12.02 - PD-1655C-A-07-08-200426

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
7	OCDD	3.07e3	0.87	NO	0.9335	9.283	41.33	1.000	2.64	0.197	2.64
8	2,3,7,8-TCDF			NO	0.7871	9.283				0.0337	
9	1,2,3,7,8-PeCDF				0.9102	9.283				0.0184	
10	2,3,4,7,8-PeCDF										

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

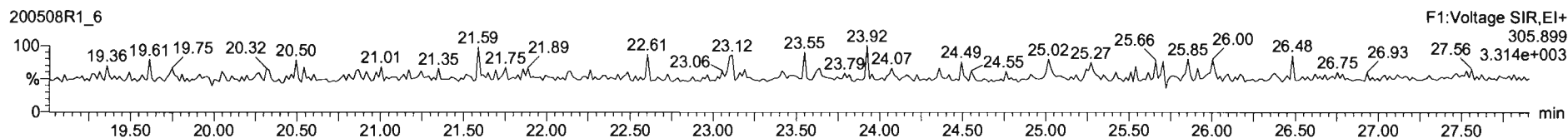
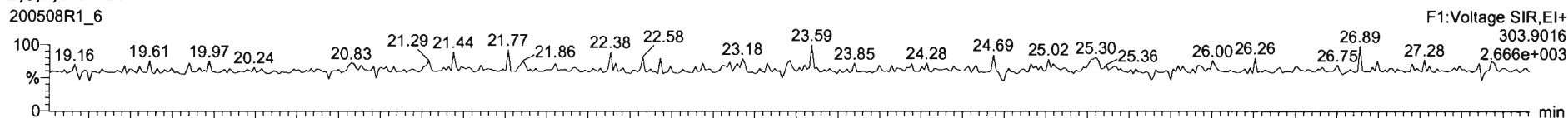


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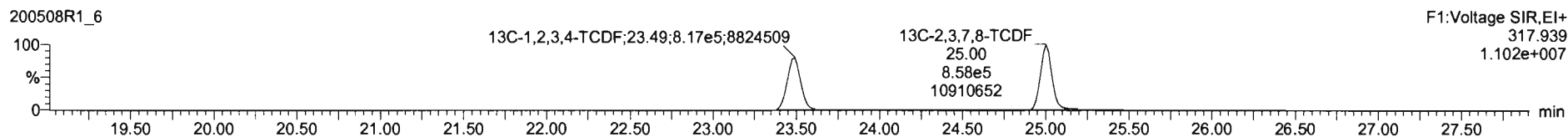
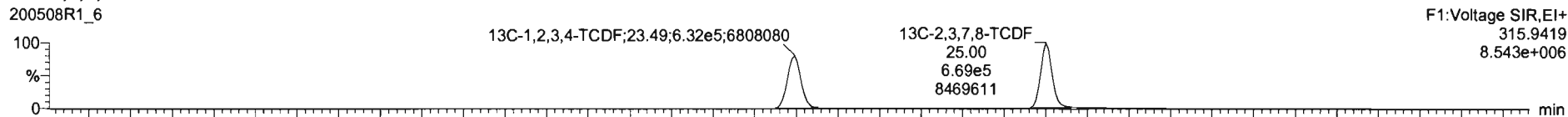
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Printed: Friday, May 08, 2020 12:49:30 PM Pacific Daylight Time

Name: 200508R1_6, Date: 08-May-2020, Time: 12:02:30, ID: 2000953-08 PDI-165SC-A-07-08-200426 12.02, Description: PDI-165SC-A-07-08-200426

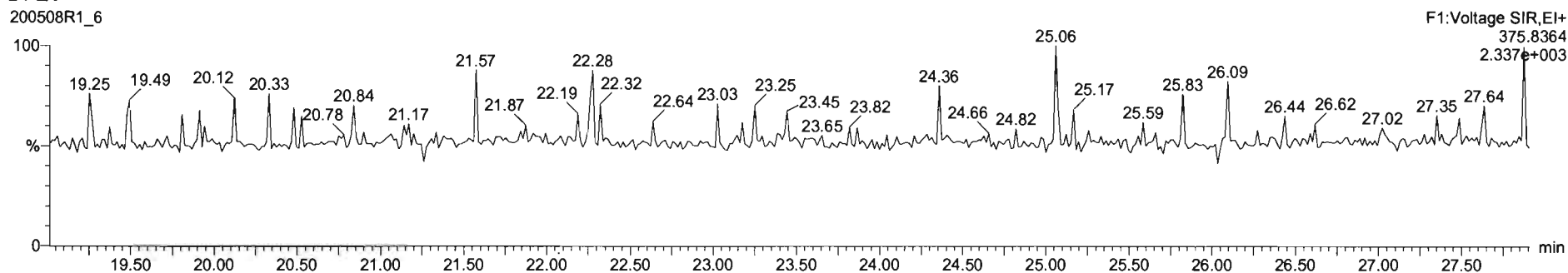
2,3,7,8-TCDF



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



D:PE1



Dataset: Untitled

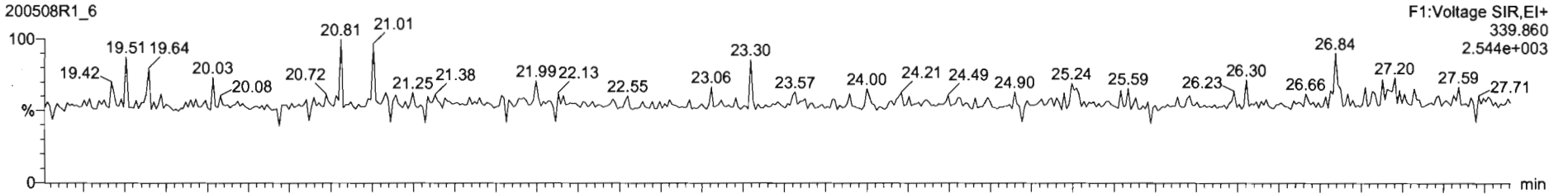
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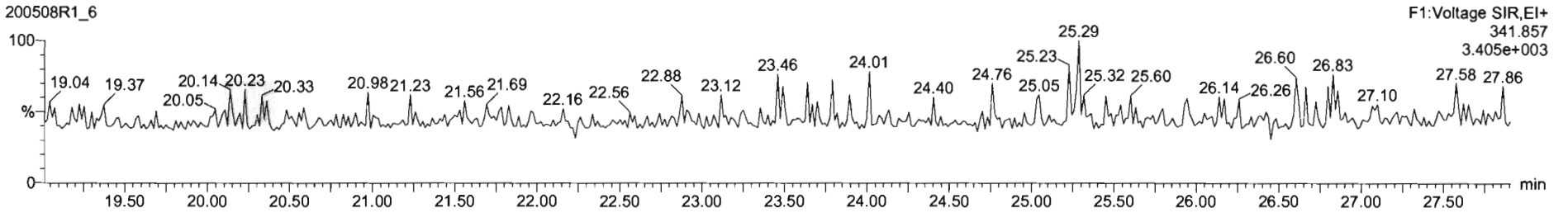
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1st Func. Penta-Furans

200508R1_6

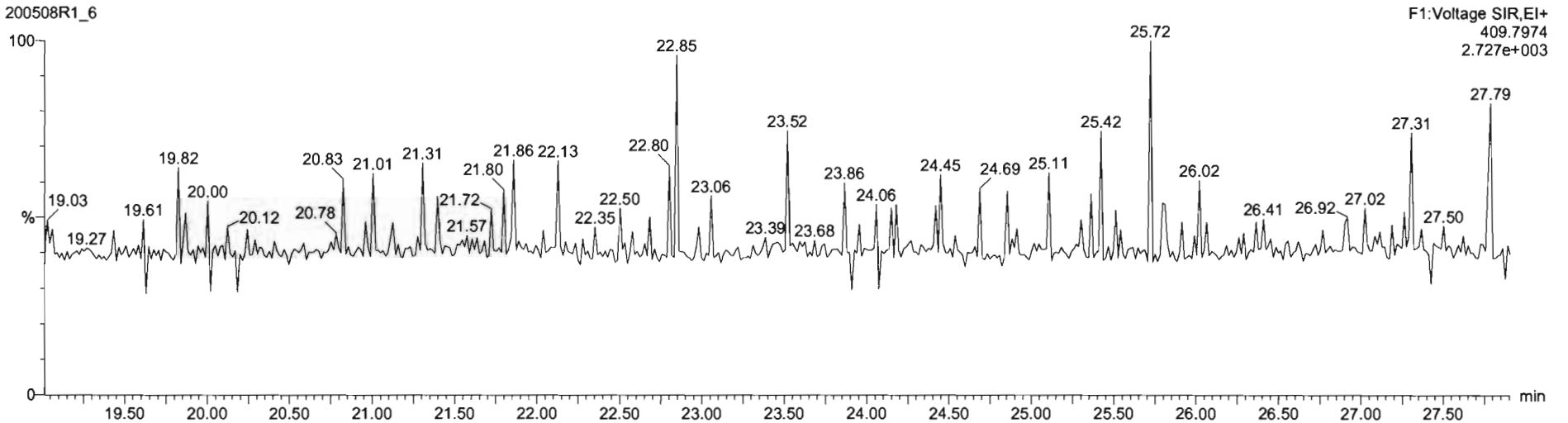


200508R1_6



DPE6

200508R1_6



Dataset: Untitled

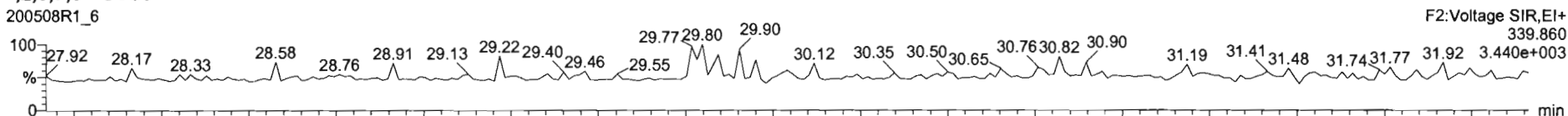
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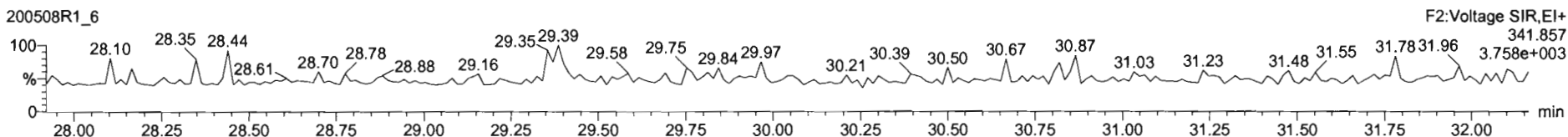
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1,2,3,7,8-PeCDF

200508R1_6

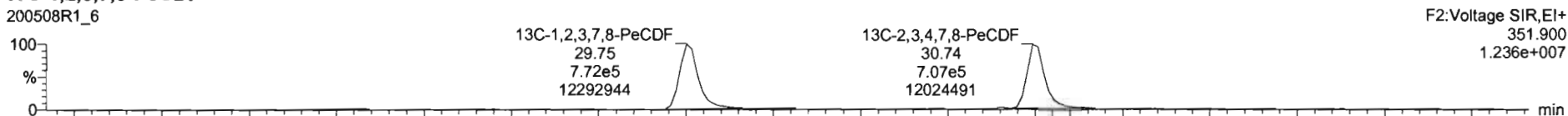


200508R1_6

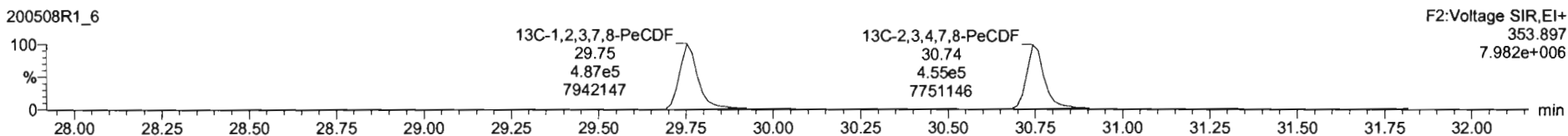


13C-1,2,3,7,8-PeCDF

200508R1_6

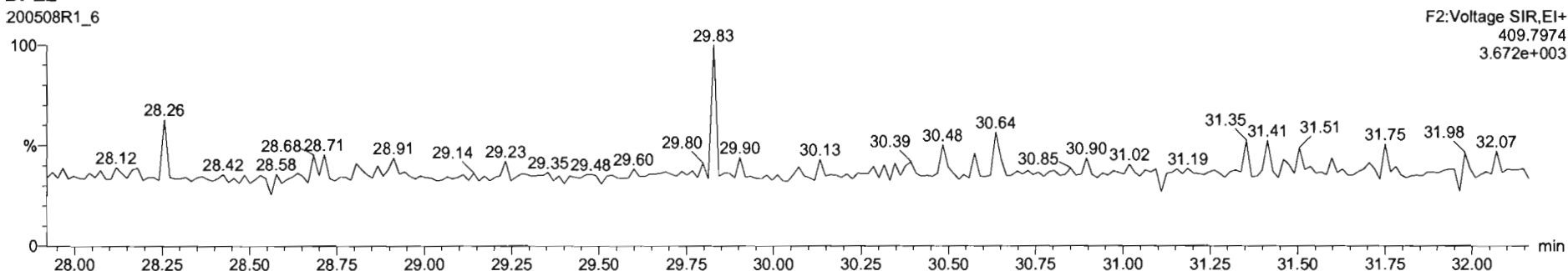


200508R1_6



DPE2

200508R1_6

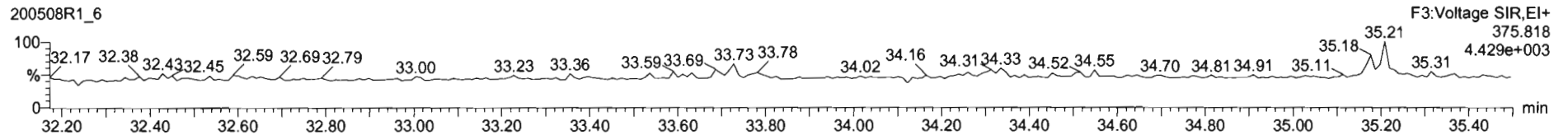
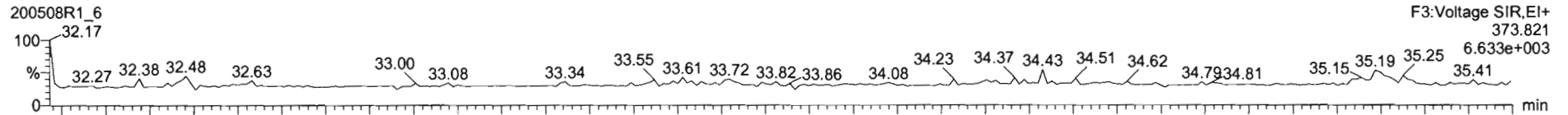


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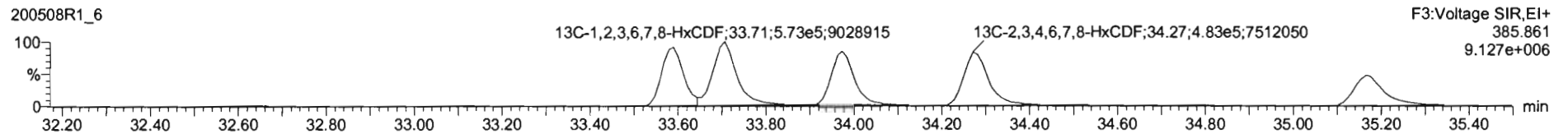
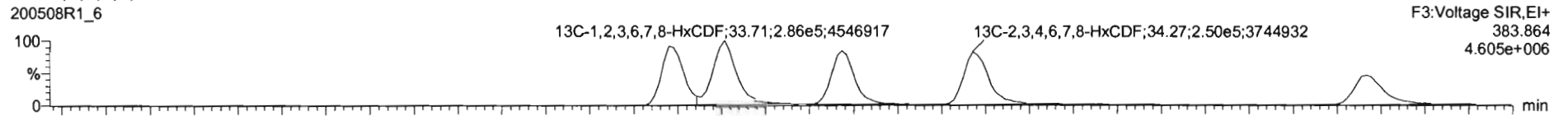
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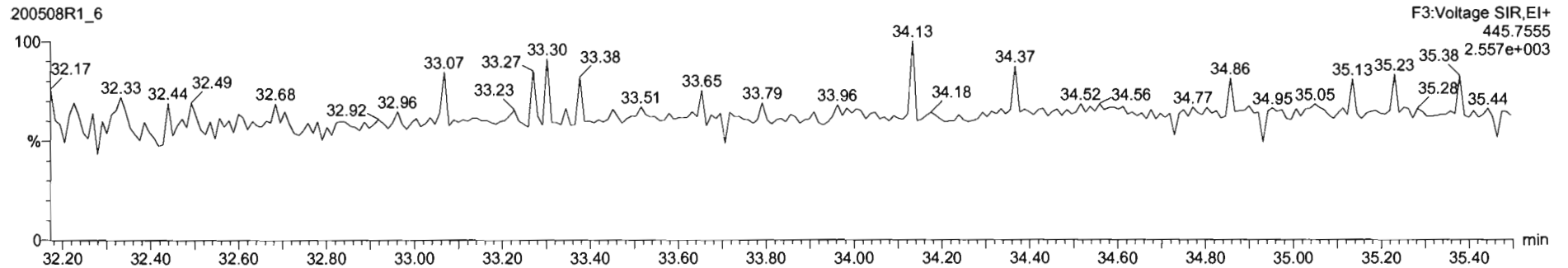
1,2,3,4,7,8-HxCDF



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



DPE3

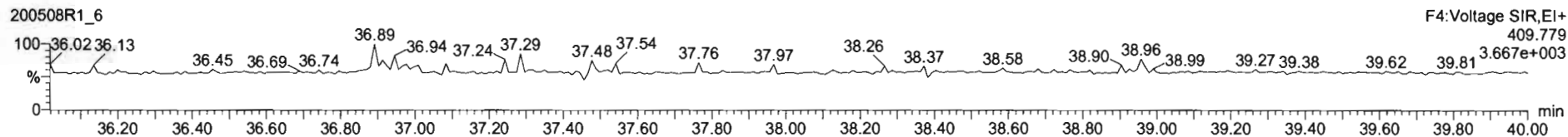
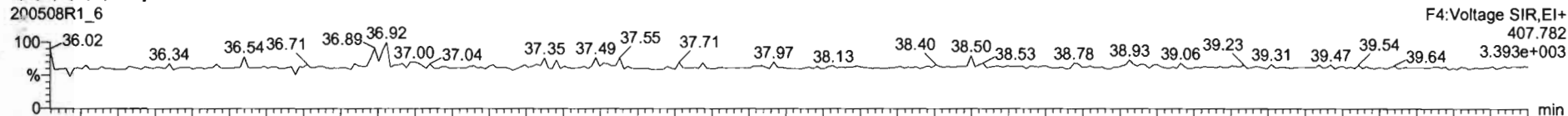


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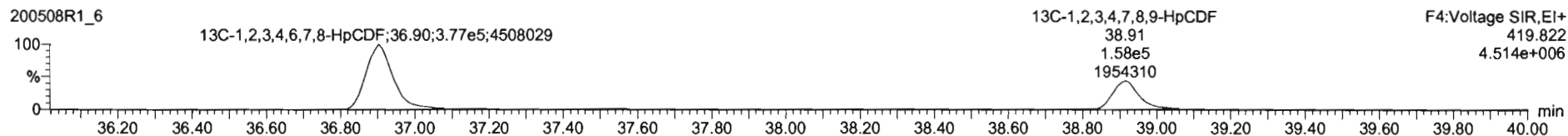
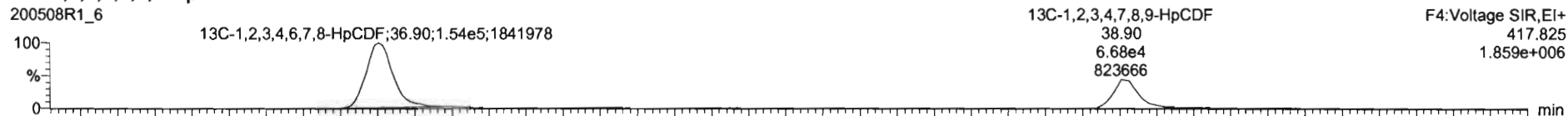
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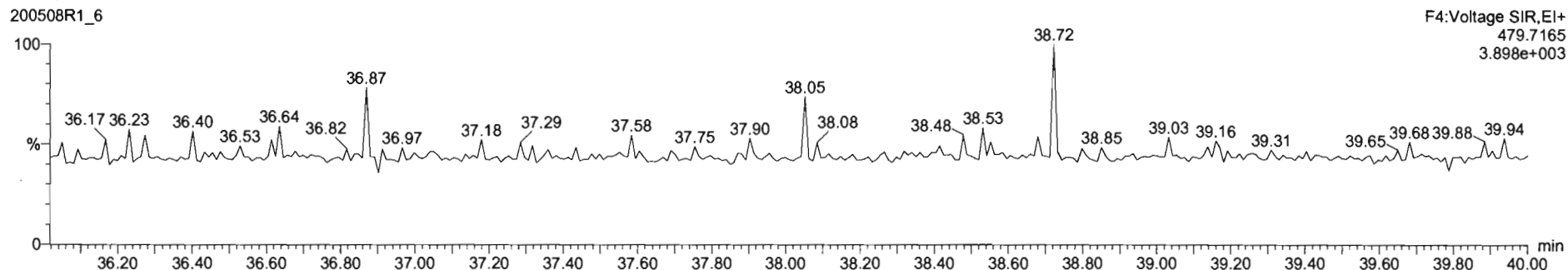
1,2,3,4,6,7,8-HpCDF



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



DPE4

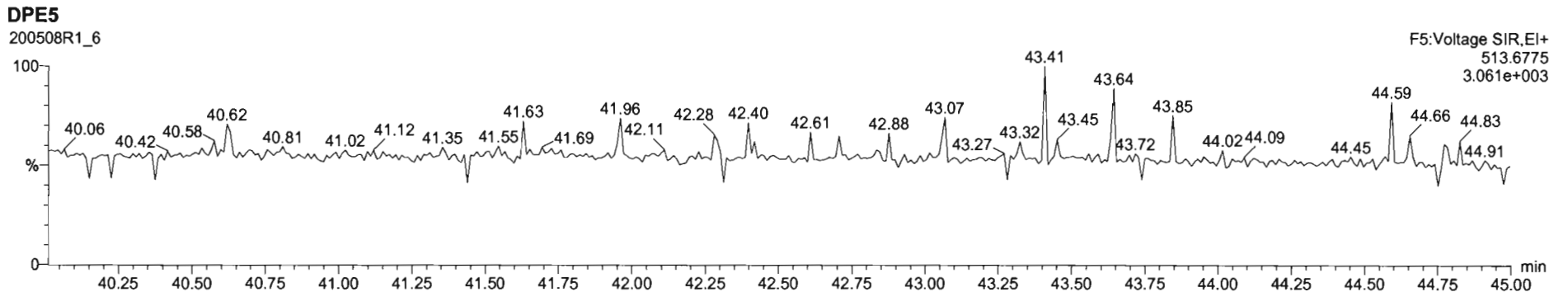
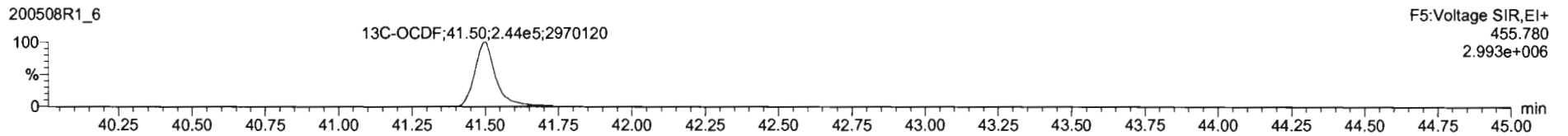
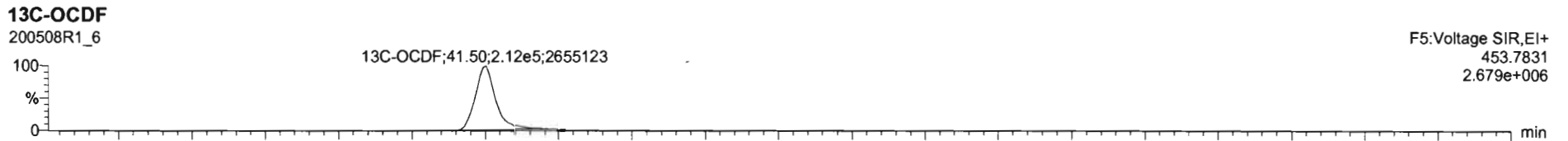
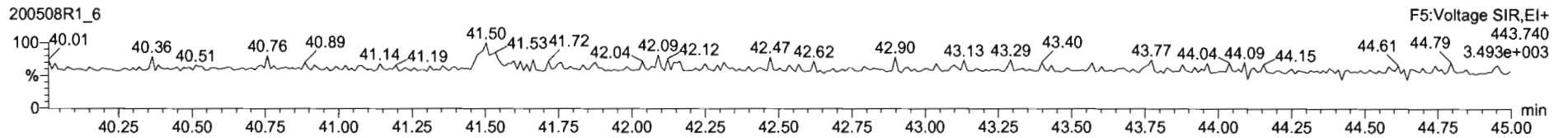
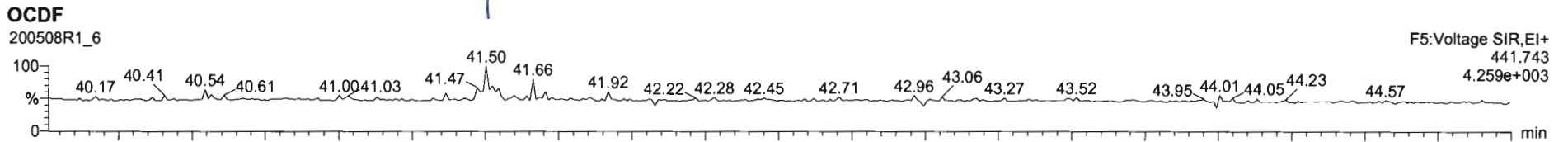


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Last Altered: Friday, May 08, 2020 12:49:03 PM Pacific Daylight Time

Printed: Friday, May 08, 2020 12:49:30 PM Pacific Daylight Time

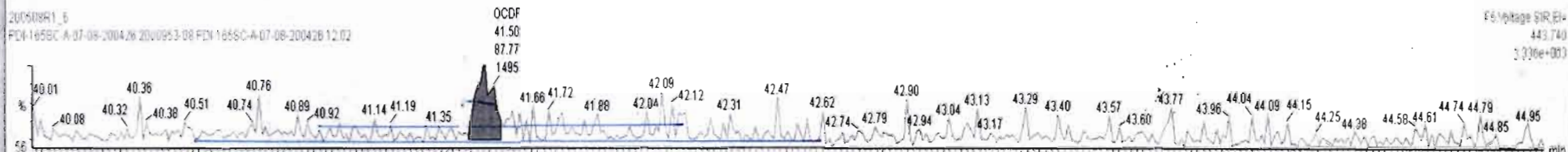
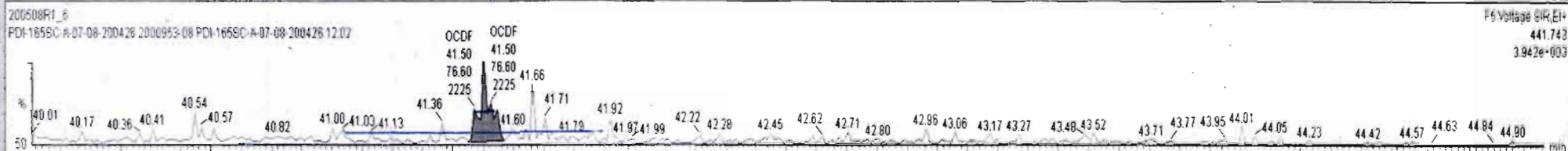
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200508R1_6 - 2000953-08 PDI-165SC-A-07-08-200426 12.02 - PDI-165SC-A-07-08-200426

Name	Resp	RA	nly	RRF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
17	OCDF	1.64e2	0.87	NO	0.8021	9.283	41.50	1.000	0.194	0.189	0.194
18	13C-2,3,7,8-TCDD	1.19e6	0.78	NO	1.1595	9.283	25.94	1.027	222	103	0.330
19	13C-1,2,3,7,8-PeCDD	8.41e5	0.62	NO	0.8472	9.283	31.06	1.229	213	99.0	0.400
20	13C-1,2,3,4,7,8-HxCDD	5.30e5	1.27	NO	0.7499	9.283	34.44	1.014	225	105	0.814

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

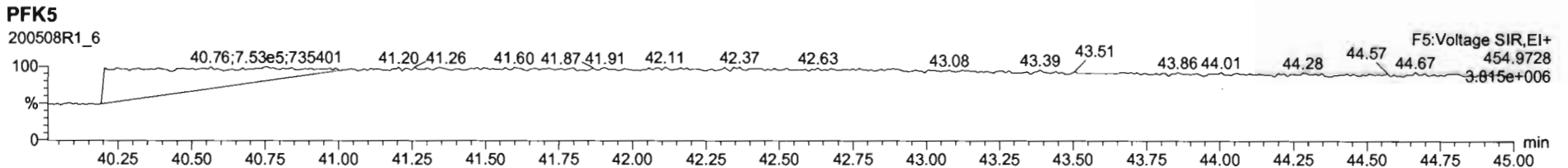
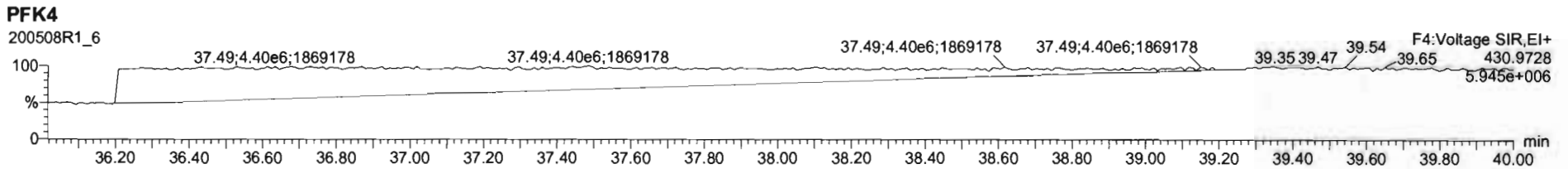
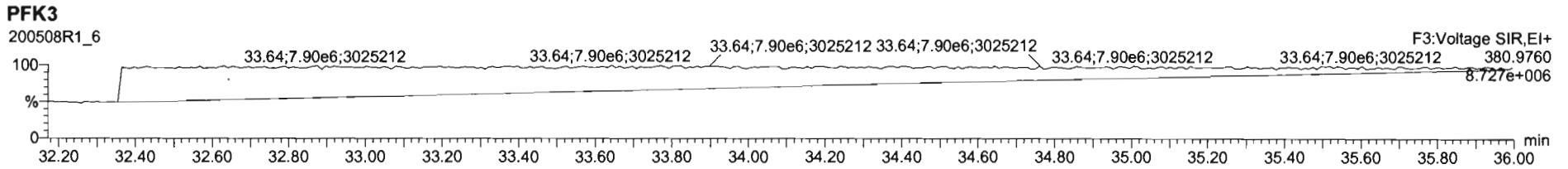
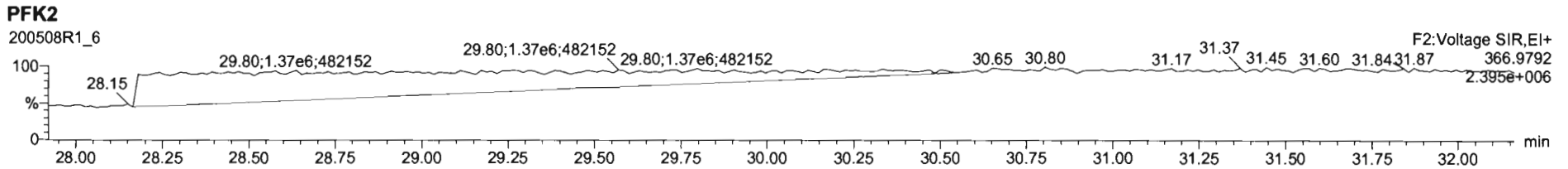
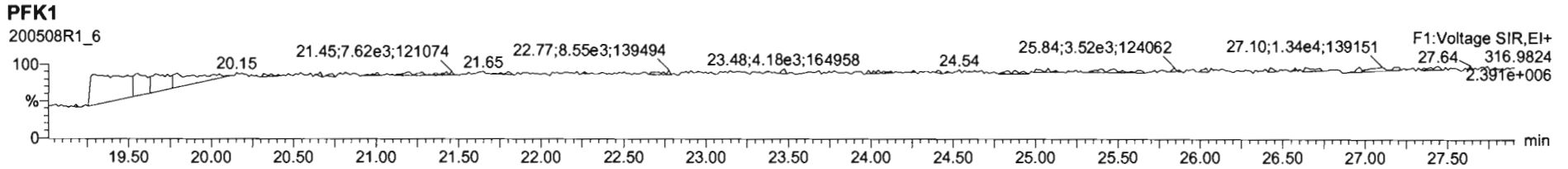


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Last Altered: Friday, May 08, 2020 12:49:03 PM Pacific Daylight Time

Printed: Friday, May 08, 2020 12:49:30 PM Pacific Daylight Time

Name: 200508R1_6, Date: 08-May-2020, Time: 12:02:30, ID: 2000953-08 PDI-165SC-A-07-08-200426 12.02, Description: PDI-165SC-A-07-08-200426



CONFIRMATION

Dataset: U:\VG7.PRO\Results\200512D1\200512D1_7.qld

Last Altered: Tuesday, May 12, 2020 14:29:48 Pacific Daylight Time
Printed: Tuesday, May 12, 2020 14:30:04 Pacific Daylight Time

DB 5/12/20 CT 03/15/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200512D1_7, Date: 12-May-2020, Time: 14:02:36, ID: 2000953-01RE1 PDI-165SC-A-00-01-200426 12.04, Description: PDI-165SC-A-00-01-200426

#	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	5.49e2	0.82	NO	0.982	10.741	17.666	17.67	1.000	1.001	0.66965		0.269	0.670
2	2 13C-2,3,7,8-TCDF	1.56e5	0.77	NO	1.08	10.741	17.701	17.65	1.133	1.135	148.06	79.5	0.673	
3	3 13C-1,2,3,4-TCDF	1.81e5	0.78	NO	1.00	10.741	15.660	15.54	1.000	1.000	186.20	100	0.729	

Dataset: U:\VG7.PRO\Results\200512D1\200512D1_7.qld

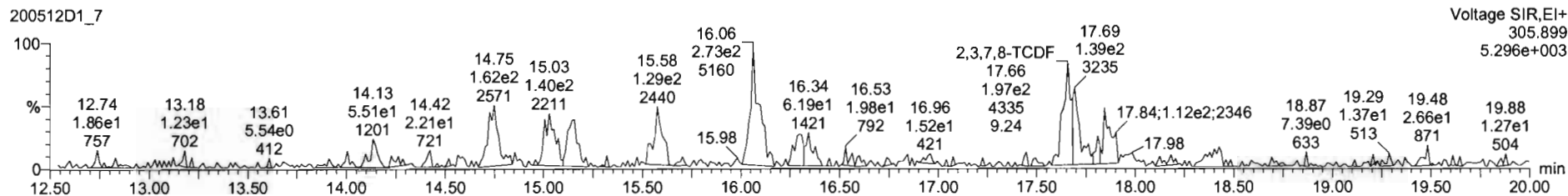
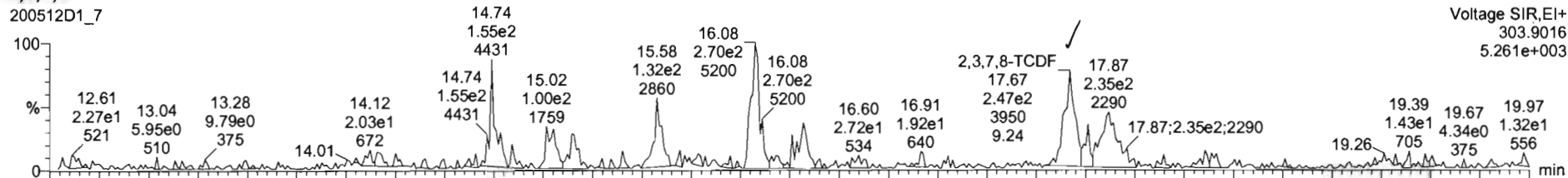
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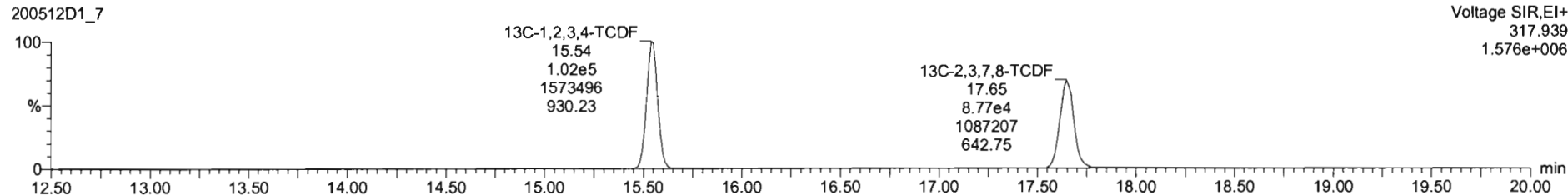
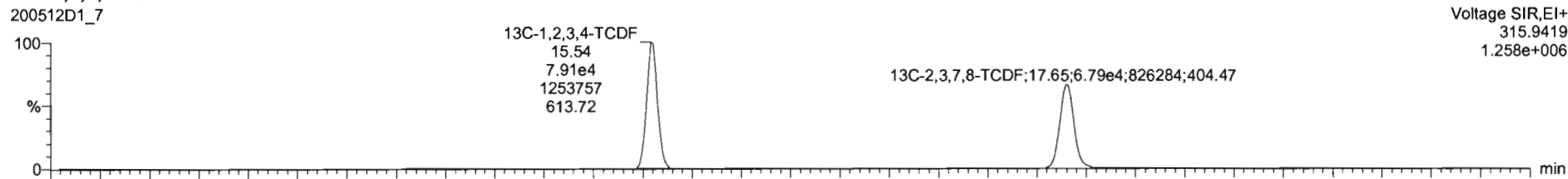
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Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

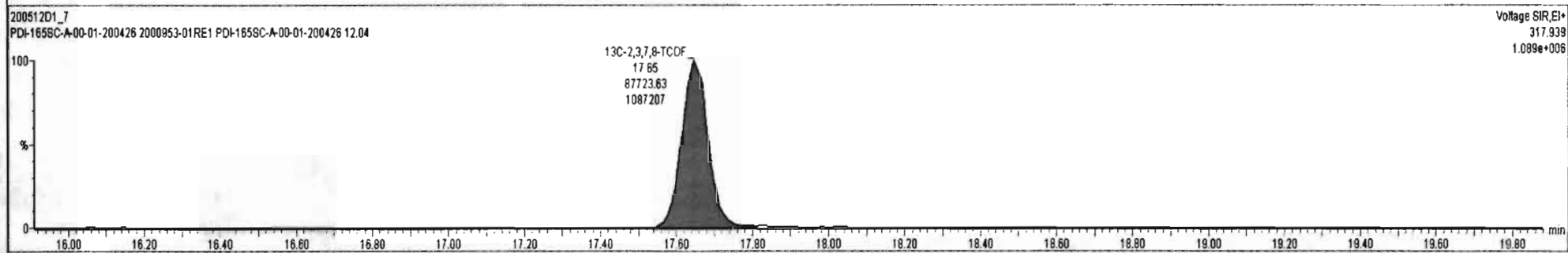
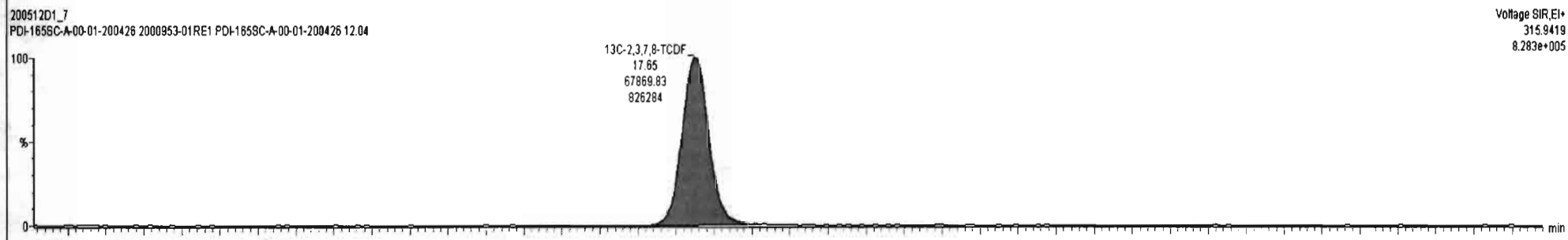
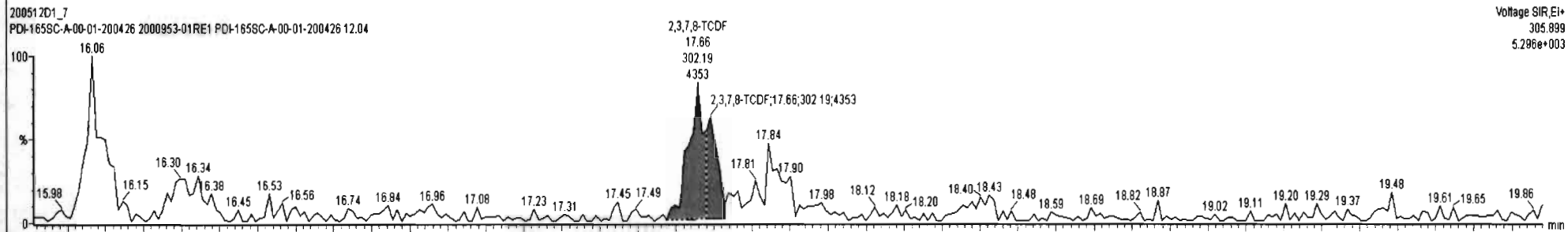
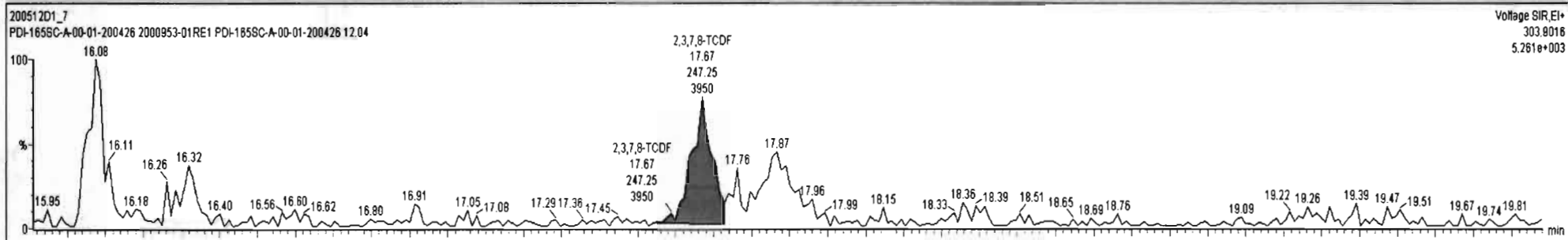
Name: 200512D1_7, Date: 12-May-2020, Time: 14:02:36, ID: 2000953-01RE1 PDI-165SC-A-00-01-200426 12.04, Description: PDI-165SC-A-00-01-200426

2,3,7,8-TCDF



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





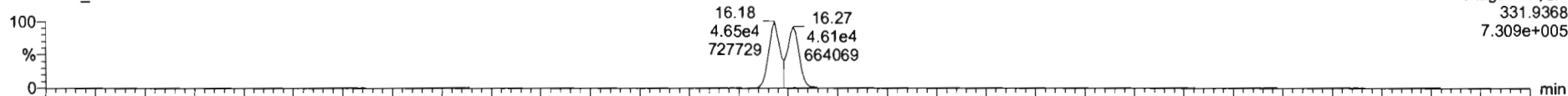
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Printed: Tuesday, May 12, 2020 14:29:17 Pacific Daylight Time

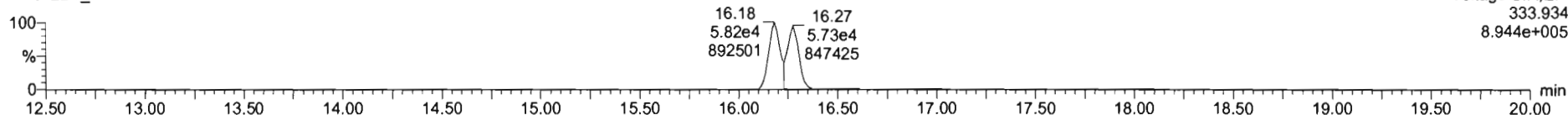
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13C-1,2,3,4-TCDD

200512D1_7

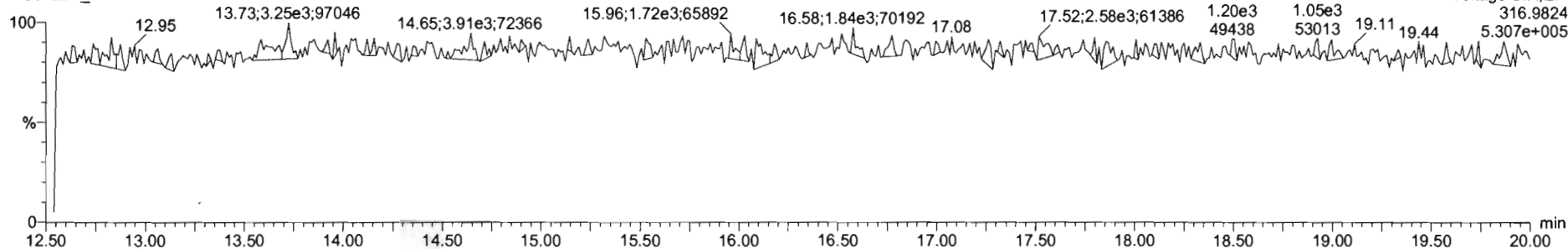


200512D1_7



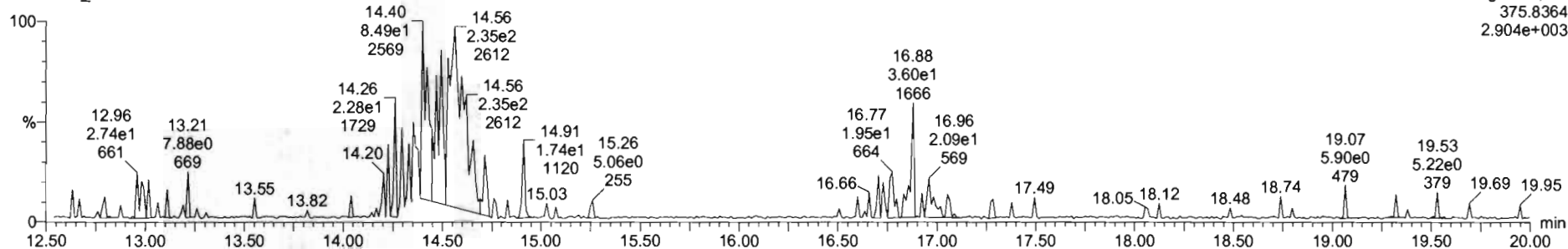
PFK1

200512D1_7



DPE1

200512D1_7



Dataset: U:\VG7.PRO\Results\200520D1\200520D1_12.qld

Last Altered: Thursday, May 21, 2020 09:44:10 Pacific Daylight Time

Printed: Thursday, May 21, 2020 09:44:25 Pacific Daylight Time

DB 5/21/20

CT 05/22/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200520D1_12, Date: 20-May-2020, Time: 18:21:56, ID: 2000953-02RE2 PDI-165SC-A-01-02-200426 12.28, Description: PDI-165SC-A-01-02-200426

	# 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	2.53e2	0.85	NO	0.982	9.999 ✓	17.654	17.66	1.000	1.001	3.1379		2.38	3.14
2	2 13C-2,3,7,8-TCDF	1.65e4	0.77	NO	1.08	9.999	17.689	17.63	1.133	1.136	133.12	66.6	6.58	
3	3 13C-1,2,3,4-TCDF	2.28e4	0.80	NO	1.00	9.999	15.660	15.53	1.000	1.000	200.03	100	7.12	

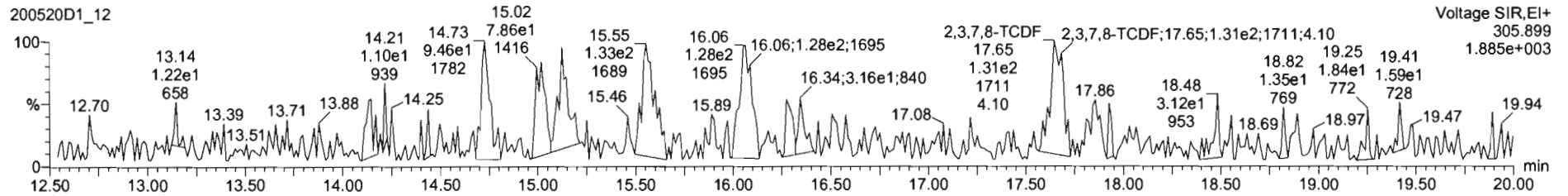
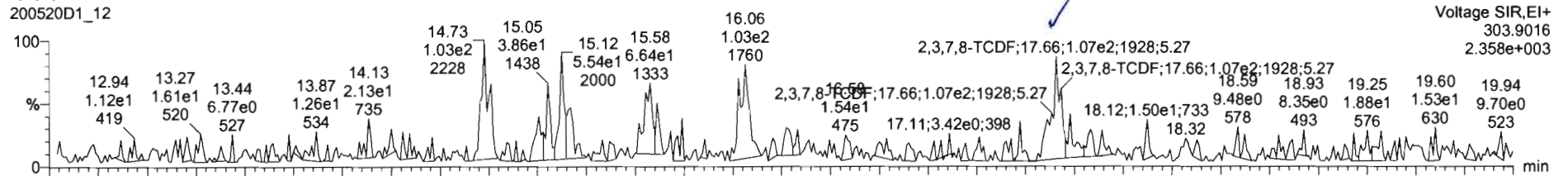
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Printed: Thursday, May 21, 2020 09:43:40 Pacific Daylight Time

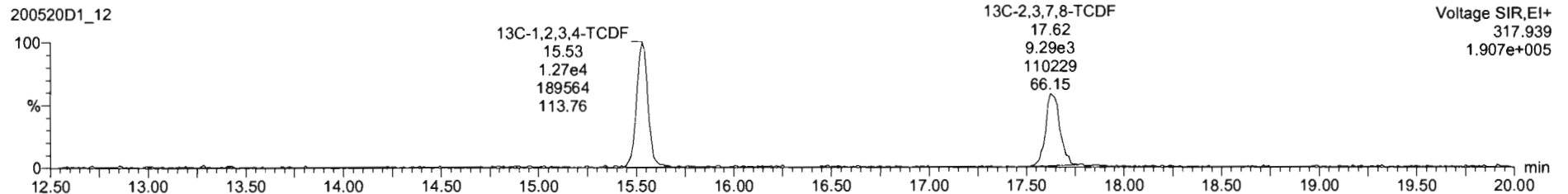
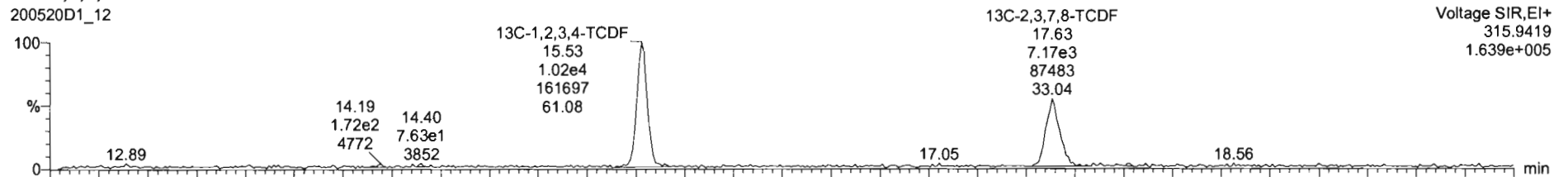
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

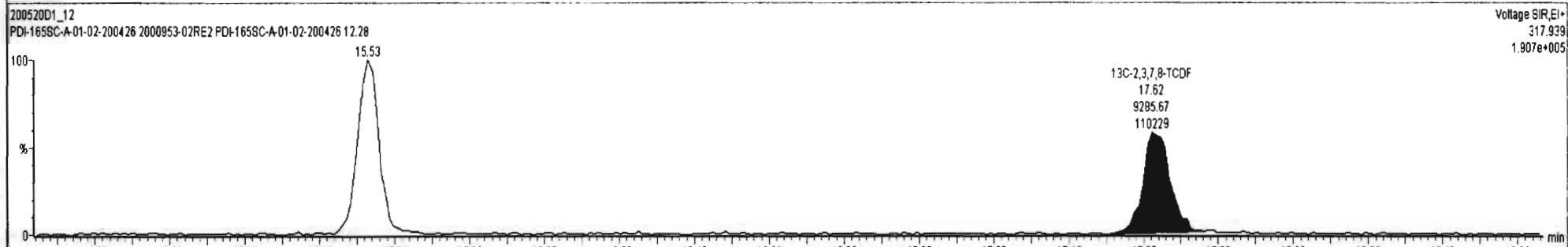
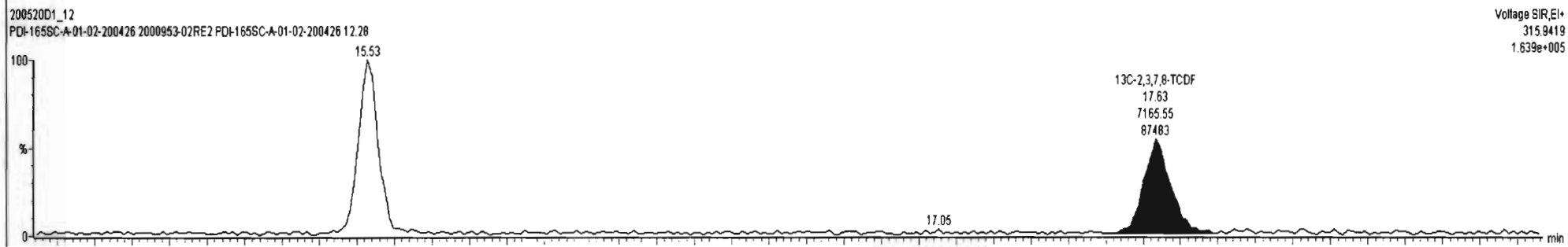
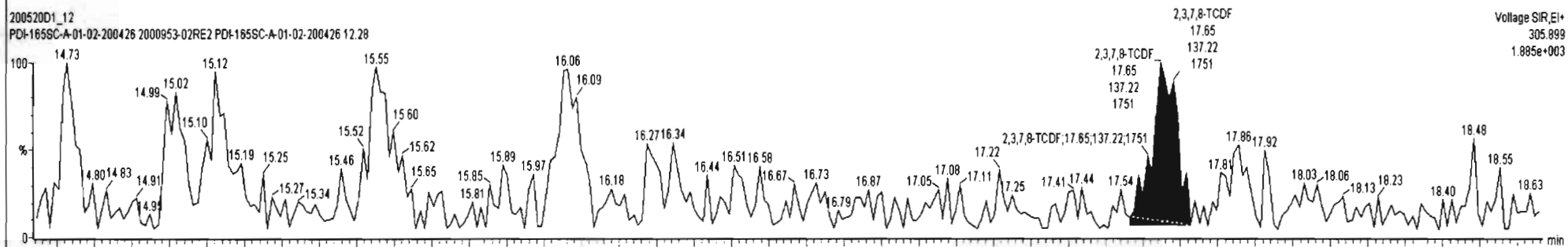
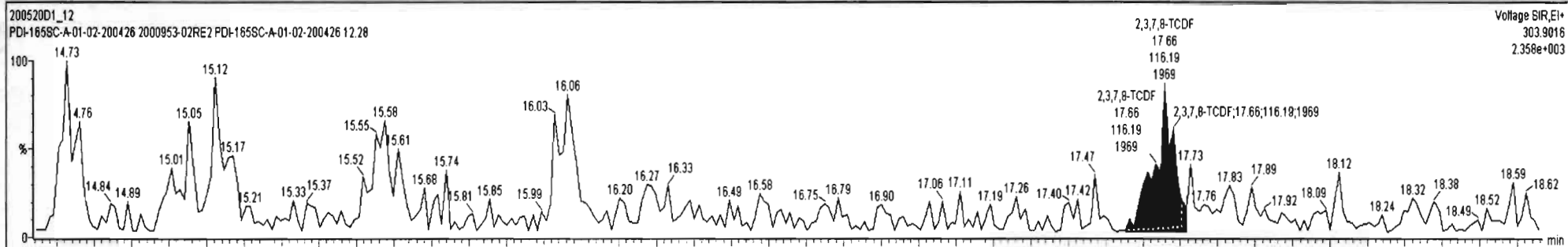
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2,3,7,8-TCDF



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





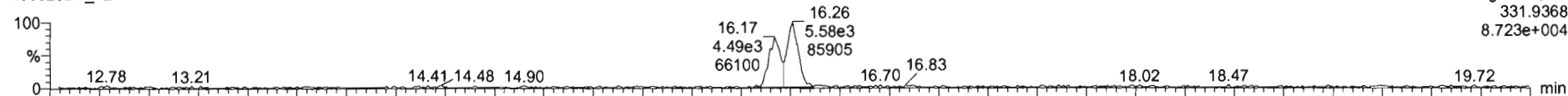
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Printed: Thursday, May 21, 2020 09:43:40 Pacific Daylight Time

Name: 200520D1_12, Date: 20-May-2020, Time: 18:21:56, ID: 2000953-02RE2 PDI-165SC-A-01-02-200426 12.28, Description: PDI-165SC-A-01-02-200426

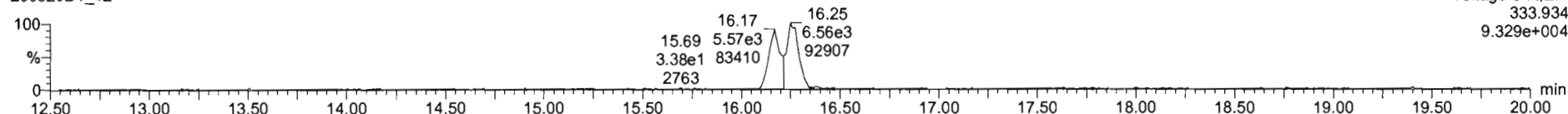
13C-1,2,3,4-TCDD

200520D1_12



Voltage SIR,EI+
331.9368
8.723e+004

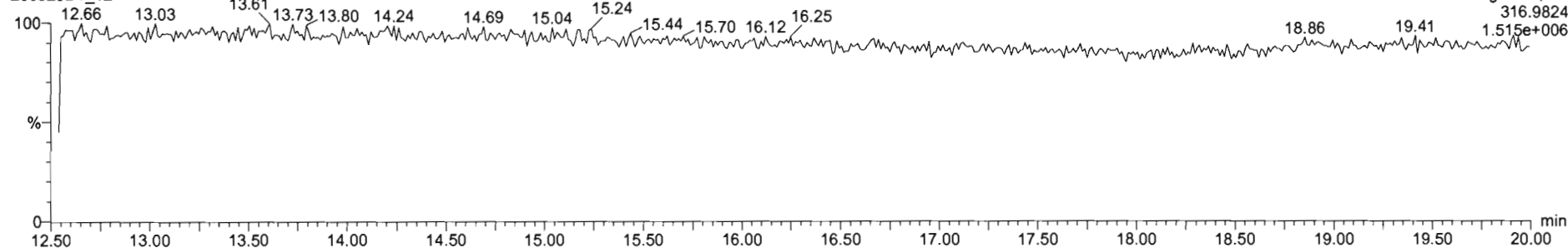
200520D1_12



Voltage SIR,EI+
333.934
9.329e+004

PFK1

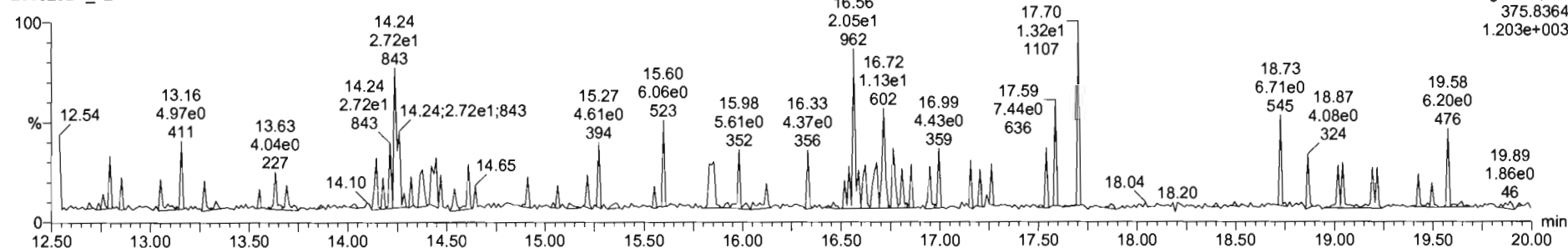
200520D1_12



Voltage SIR,EI+
316.9824
1.515e+006

DPE1

200520D1_12



Voltage SIR,EI+
375.8364
1.203e+003

CONTINUING CALIBRATION

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-1.qld

Last Altered: Wednesday, May 06, 2020 2:25:28 PM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 2:25:59 PM Pacific Daylight Time

GPB_05/06/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

GT 05/07/2020

Name: 200506R2_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	8.04e4	8.92e5	0.76	NO	0.947	25.99	25.99	NO	1.001	1.001	9.5117	95.1	NO
2	2 1,2,3,7,8-PeCDD	2.79e5	6.29e5	0.61	NO	0.942	31.10	31.09	NO	1.001	1.000	47.082	94.2	NO
3	3 1,2,3,4,7,8-HxCDD	2.22e5	4.13e5	1.25	NO	1.06	34.46	34.46	NO	1.000	1.000	50.484	101	NO
4	4 1,2,3,6,7,8-HxCDD	2.41e5	5.50e5	1.24	NO	0.915	34.55	34.57	NO	1.000	1.001	47.862	95.7	NO
5	5 1,2,3,7,8,9-HxCDD	2.10e5	4.78e5	1.24	NO	0.915	34.84	34.84	NO	1.000	1.000	47.988	96.0	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.45e5	3.21e5	1.05	NO	0.898	38.33	38.34	NO	1.000	1.001	50.185	100	NO
7	7 OCDD	2.42e5	4.95e5	0.87	NO	0.933	41.31	41.32	NO	1.000	1.000	104.79	105	NO
8	8 2,3,7,8-TCDF	9.30e4	1.20e6	0.76	NO	0.787	25.04	25.03	NO	1.001	1.001	9.8769	98.8	NO
9	9 1,2,3,7,8-PeCDF	4.31e5	9.78e5	1.56	NO	0.910	29.79	29.77	NO	1.001	1.000	48.450	96.9	NO
10	10 2,3,4,7,8-PeCDF	4.37e5	9.24e5	1.57	NO	0.966	30.79	30.77	NO	1.001	1.000	48.905	97.8	NO
11	11 1,2,3,4,7,8-HxCDF	2.74e5	5.98e5	1.21	NO	0.878	33.59	33.61	NO	1.000	1.001	52.152	104	NO
12	12 1,2,3,6,7,8-HxCDF	3.27e5	7.04e5	1.18	NO	0.874	33.72	33.73	NO	1.000	1.001	53.077	106	NO
13	13 2,3,4,6,7,8-HxCDF	2.87e5	5.91e5	1.22	NO	0.922	34.32	34.29	NO	1.001	1.000	52.757	106	NO
14	14 1,2,3,7,8,9-HxCDF	1.98e5	4.34e5	1.20	NO	0.864	35.17	35.19	NO	1.000	1.001	52.824	106	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.07e5	4.38e5	1.01	NO	0.871	36.94	36.91	NO	1.001	1.000	54.217	108	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.20e5	2.21e5	0.97	NO	1.01	38.91	38.93	NO	1.000	1.000	53.877	108	NO
17	17 OCDF	2.28e5	5.31e5	0.86	NO	0.802	41.49	41.50	NO	1.000	1.000	107.01	107	NO
18	18 13C-2,3,7,8-TCDD	8.92e5	7.44e5	0.79	NO	1.16	25.95	25.96	NO	1.026	1.027	103.53	104	NO
19	19 13C-1,2,3,7,8-PeCDD	6.29e5	7.44e5	0.63	NO	0.847	31.03	31.08	NO	1.227	1.229	99.900	99.9	NO
20	20 13C-1,2,3,4,7,8-HxCDD	4.13e5	5.73e5	1.29	NO	0.750	34.46	34.45	NO	1.014	1.014	96.105	96.1	NO
21	21 13C-1,2,3,6,7,8-HxCDD	5.50e5	5.73e5	1.27	NO	0.963	34.57	34.55	NO	1.017	1.017	99.673	99.7	NO
22	22 13C-1,2,3,7,8,9-HxCDD	4.78e5	5.73e5	1.23	NO	0.838	34.84	34.83	NO	1.025	1.025	99.649	99.6	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.21e5	5.73e5	1.02	NO	0.641	38.33	38.32	NO	1.128	1.128	87.318	87.3	NO
24	24 13C-OCDD	4.95e5	5.73e5	0.91	NO	0.586	41.32	41.31	NO	1.216	1.216	147.34	73.7	NO
25	25 13C-2,3,7,8-TCDF	1.20e6	1.13e6	0.78	NO	1.03	25.02	25.02	NO	0.989	0.989	102.24	102	NO
26	26 13C-1,2,3,7,8-PeCDF	9.78e5	1.13e6	1.59	NO	0.845	29.72	29.77	NO	1.176	1.177	102.31	102	NO
27	27 13C-2,3,4,7,8-PeCDF	9.24e5	1.13e6	1.60	NO	0.814	30.71	30.76	NO	1.215	1.216	100.31	100	NO
28	28 13C-1,2,3,4,7,8-HxCDF	5.98e5	5.73e5	0.51	NO	1.00	33.60	33.59	NO	0.989	0.988	103.89	104	NO
29	29 13C-1,2,3,6,7,8-HxCDF	7.04e5	5.73e5	0.52	NO	1.14	33.73	33.71	NO	0.992	0.992	108.12	108	NO
30	30 13C-2,3,4,6,7,8-HxCDF	5.91e5	5.73e5	0.52	NO	1.02	34.29	34.28	NO	1.009	1.009	100.89	101	NO
31	31 13C-1,2,3,7,8,9-HxCDF	4.34e5	5.73e5	0.51	NO	0.845	35.18	35.17	NO	1.035	1.035	89.748	89.7	NO

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-1.qld

Last Altered: Wednesday, May 06, 2020 2:25:28 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 2:25:59 PM Pacific Daylight Time

Name: 200506R2_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2_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	4.38e5	5.73e5	0.43	NO	0.771	36.91	36.90	NO	1.086	1.086	99.094	99.1	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.21e5	5.73e5	0.43	NO	0.482	38.92	38.91	NO	1.145	1.145	79.939	79.9	NO
34	34 13C-OCDF	5.31e5	5.73e5	0.87	NO	0.669	41.49	41.49	NO	1.221	1.221	138.55	69.3	NO
35	35 37Cl-2,3,7,8-TCDD	8.02e4	7.44e5			1.10	25.98	25.97	NO	1.028	1.027	9.8140	98.1	NO
36	36 13C-1,2,3,4-TCDD	7.44e5	7.44e5	0.79	NO	1.00	25.35	25.29	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.13e6	1.13e6	0.80	NO	1.00	23.56	23.49	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	5.73e5	5.73e5	0.51	NO	1.00	34.00	33.98	NO	1.000	1.000	100.00	100	YEs <i>ok</i>

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Thursday, May 07, 2020 7:13:25 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 7:14:05 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

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

	Name	ID	Acq.Date	Acq.Time
1	200506R2_1	ST200506R2_1 1613 CS3 19L2305	06-May-20	13:35:58
2	200506R2_2	B0D0323-BS1 OPR 10	06-May-20	14:23:12
3	200506R2_3	SOLVENT BLANK	06-May-20	15:10:11
4	200506R2_4	B0D0323-BLK1 Method Blank 10	06-May-20	15:56:26
5	200506R2_5	B0D0323-DUP1 Duplicate 12.5	06-May-20	16:42:36
6	200506R2_6	2000951-01 PDI-1159SC-A-01-02-200423 12.82	06-May-20	17:28:49
7	200506R2_7	2000951-02 PDI-159SC-A-00-01-200423 16.8	06-May-20	18:15:01
8	200506R2_8	2000951-03 PDI-159SC-A-01-02-200423 12.95	06-May-20	19:01:12
9	200506R2_9	2000951-04 PDI-159SC-A-02-03-200423 12.33	06-May-20	19:47:23
10	200506R2_10	2000951-05RE2 PDI-159SC-A-03-04-200423 ...	06-May-20	20:33:36
11	200506R2_11	2000951-06 PDI-159SC-A-04-05-200423 11.05	06-May-20	21:19:47
12	200506R2_12	2000951-07 PDI-159SC-A-05-06-200423 11.25	06-May-20	22:05:59
13	200506R2_13	2000951-08 PDI-159SC-A-06-07-200423 12.3	06-May-20	22:52:12
14	200506R2_14	2000951-09 PDI-159SC-A-07-08-200423 12.26	06-May-20	23:38:22
15	200506R2_15	2000953-01 PDI-165SC-A-00-01-200426 12.04	07-May-20	00:24:34
16	200506R2_16	2000953-02 PDI-165SC-A-01-02-200426 12.15	07-May-20	01:10:46

Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 2:26:11 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 2:26:24 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	21.81
2	1,2,8,9-TCDD (Last)	26.98
3	1,2,4,7,9-PeCDD (First)	28.84
4	1,2,3,8,9-PeCDD (Last)	31.48
5	1,2,4,6,7,9-HxCDD (First)	32.99
6	1,2,3,7,8,9-HxCDD (Last)	34.84
7	1,2,3,4,6,7,9-HpCDD (First)	37.31
8	1,2,3,4,6,7,8-HpCDD (Last)	38.34
9	1,3,6,8-TCDF (First)	19.75
10	1,2,8,9-TCDF (Last)	27.13
11	1,3,4,6,8-PeCDF (First)	27.11
12	1,2,3,8,9-PeCDF (Last)	31.72
13	1,2,3,4,6,8-HxCDF (First)	32.44
14	1,2,3,7,8,9-HxCDF (Last)	35.19
15	1,2,3,4,6,7,8-HpCDF (First)	36.91
16	1,2,3,4,7,8,9-HpCDF (Last)	38.93

Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 2:26:11 PM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 2:26:24 PM Pacific Daylight Time

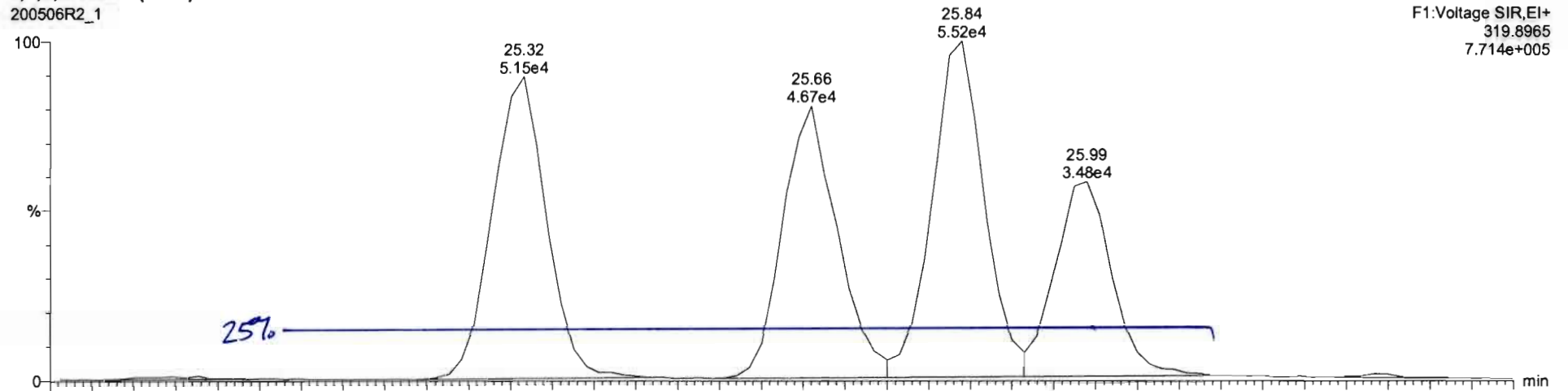
GPB 05/06/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

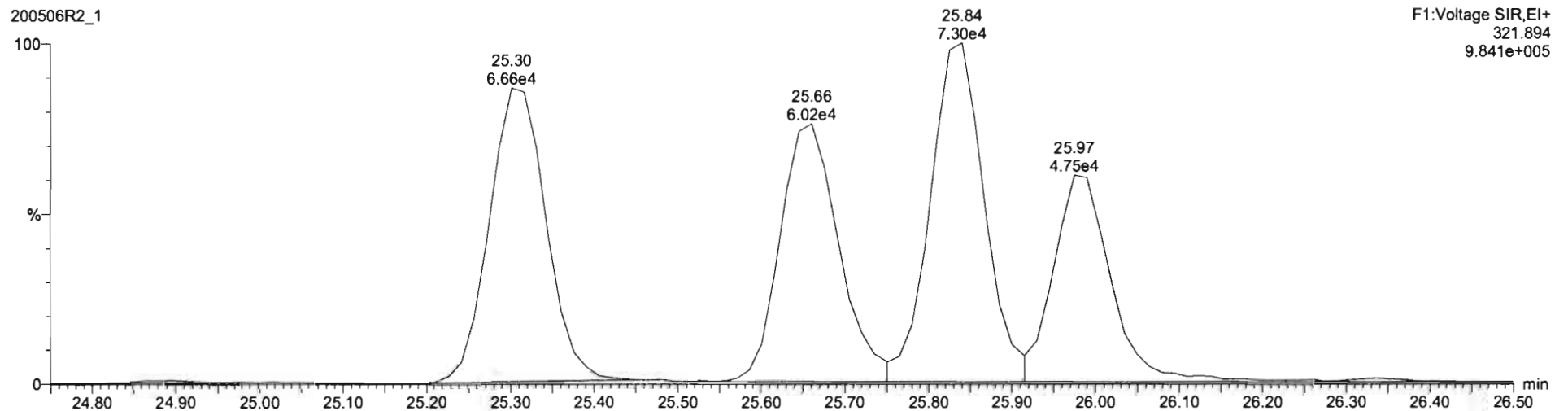
Name: 200506R2_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200506R2_1



200506R2_1



Dataset: Untitled

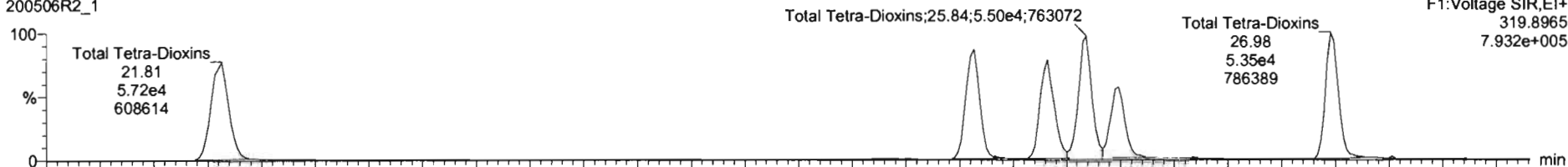
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Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

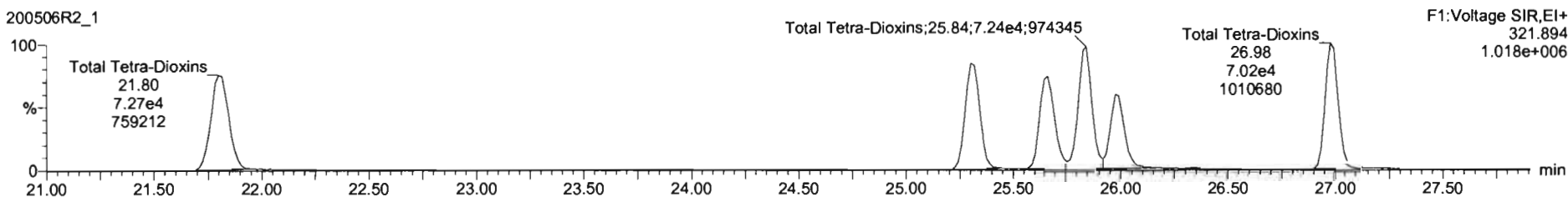
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2,3,7,8-TCDD

200506R2_1

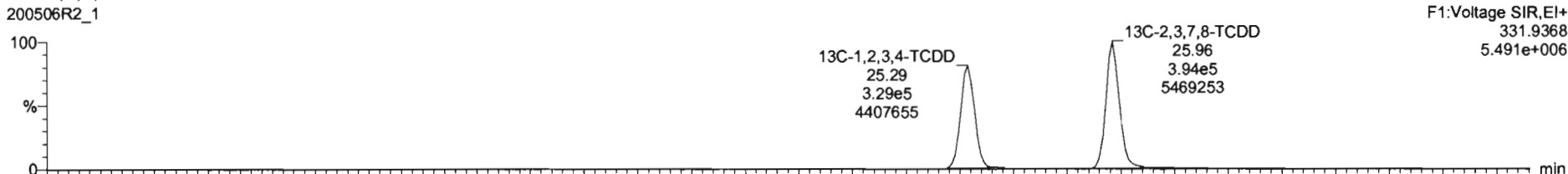


200506R2_1

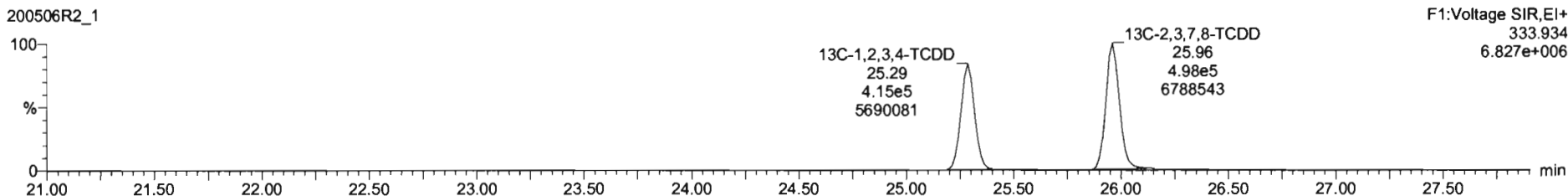


13C-2,3,7,8-TCDD

200506R2_1



200506R2_1



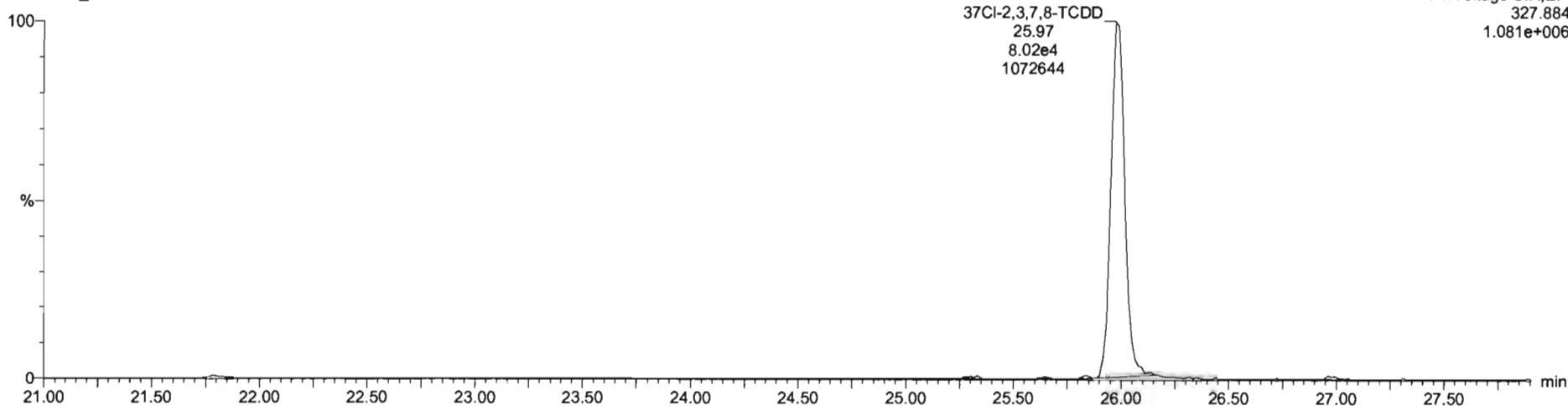
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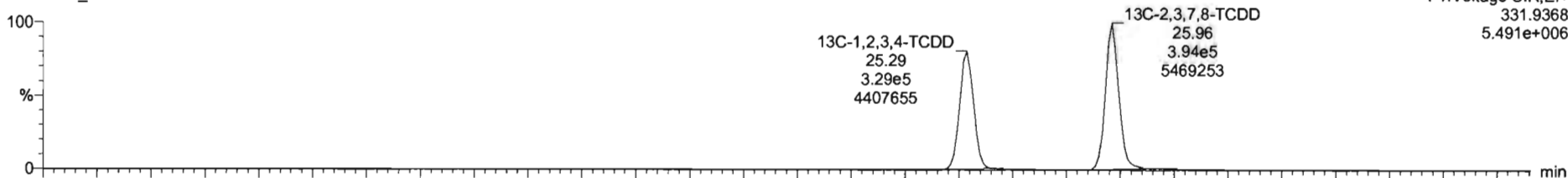
37Cl-2,3,7,8-TCDD

200506R2_1

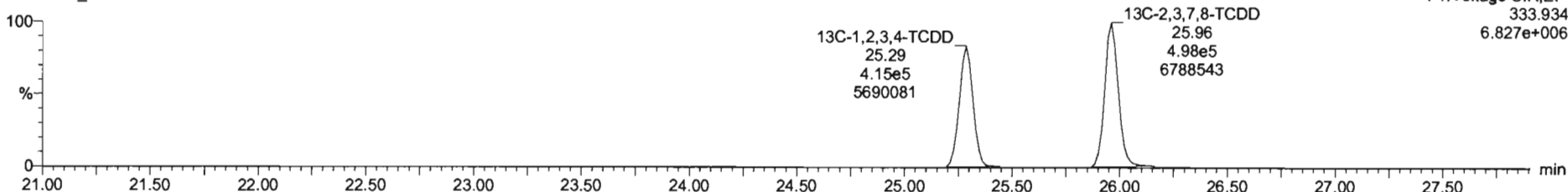


13C-1,2,3,4-TCDD

200506R2_1



200506R2_1



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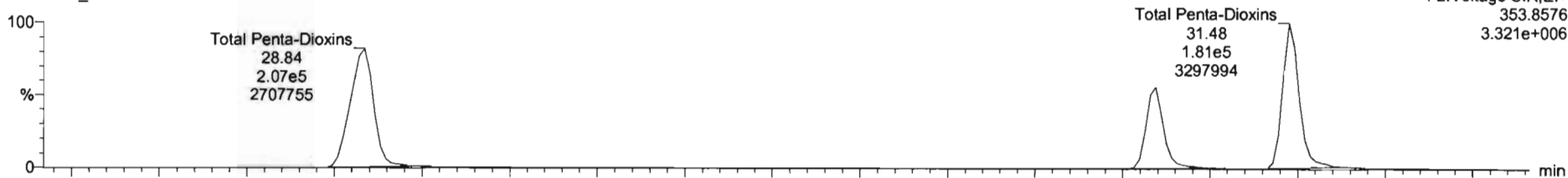
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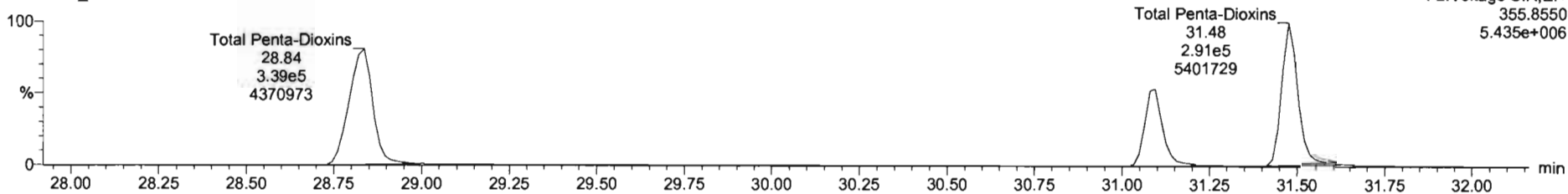
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1,2,3,7,8-PeCDD

200506R2_1

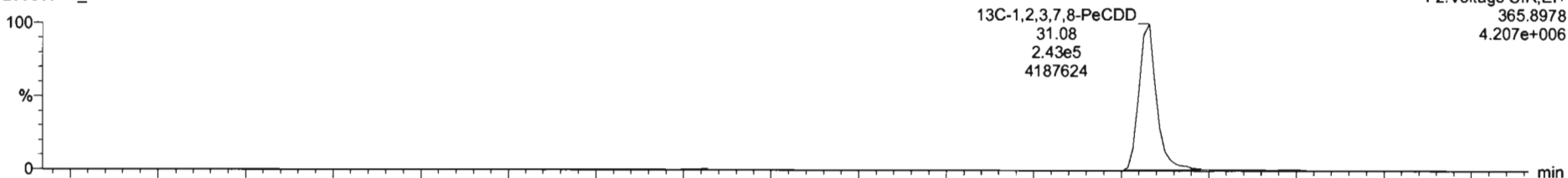


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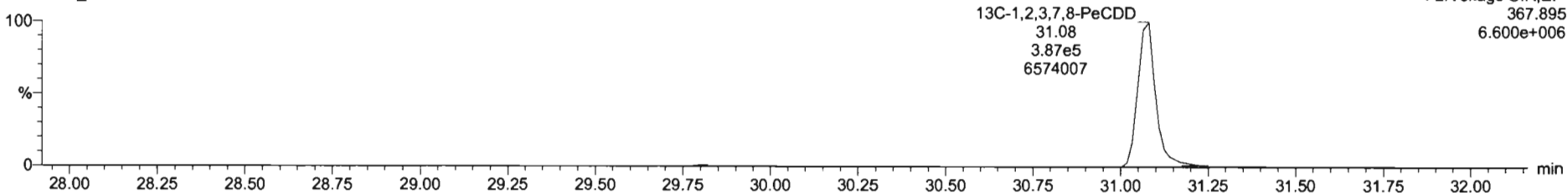


13C-1,2,3,7,8-PeCDD

200506R2_1



200506R2_1



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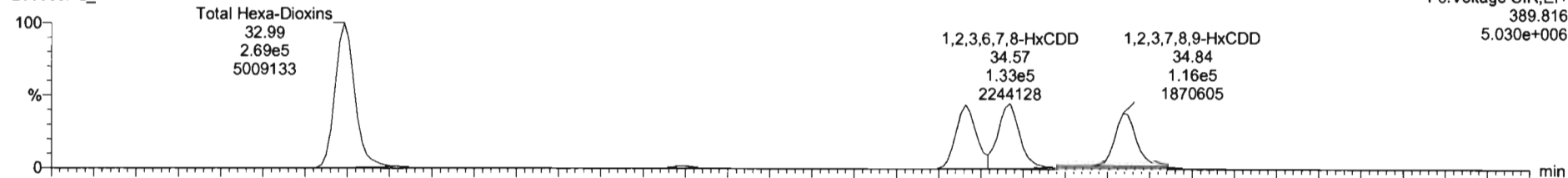
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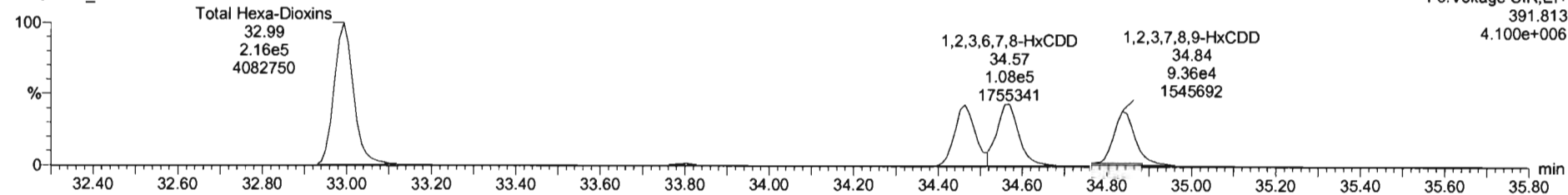
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1,2,3,4,7,8-HxCDD

200506R2_1

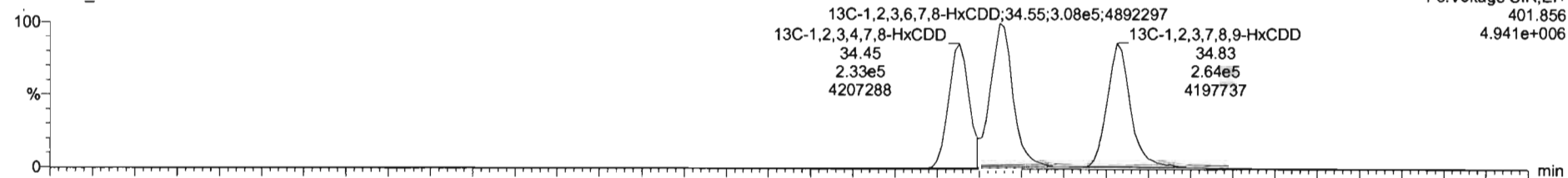


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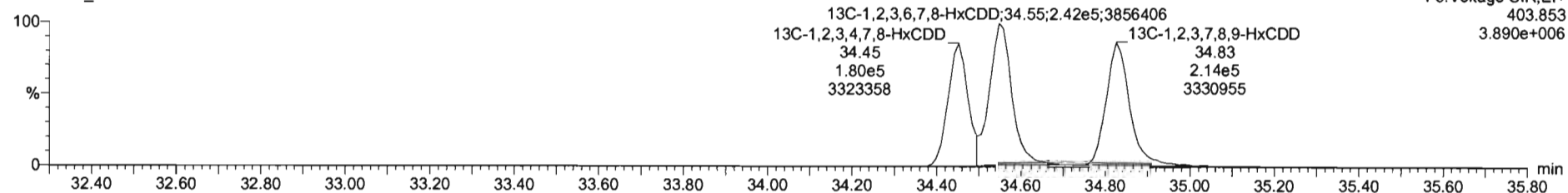


13C-1,2,3,4,7,8-HxCDD

200506R2_1



200506R2_1



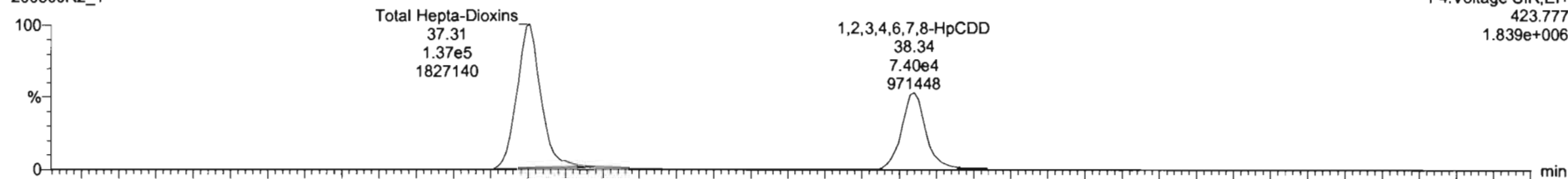
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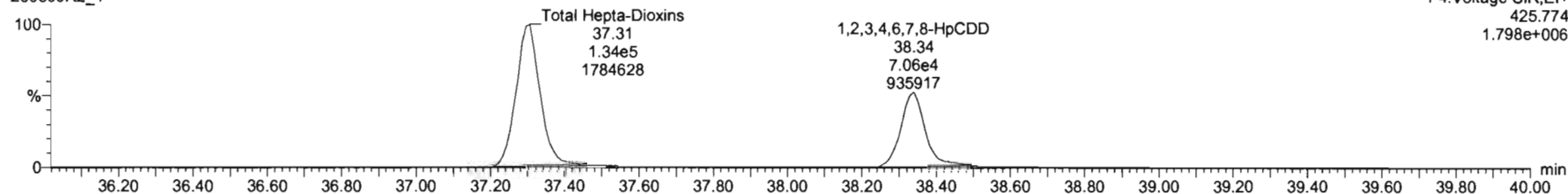
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1,2,3,4,6,7,8-HpCDD

200506R2_1

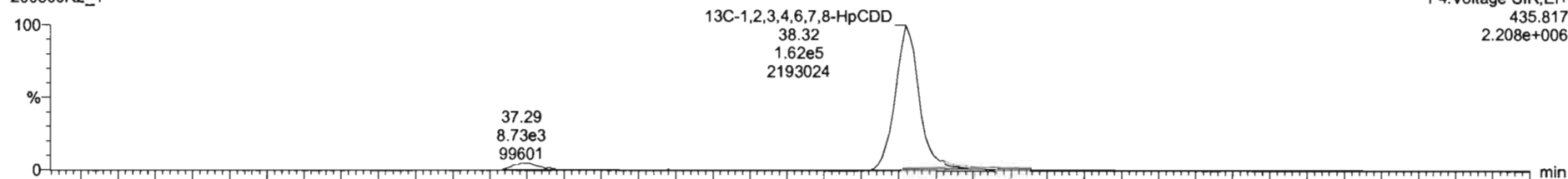


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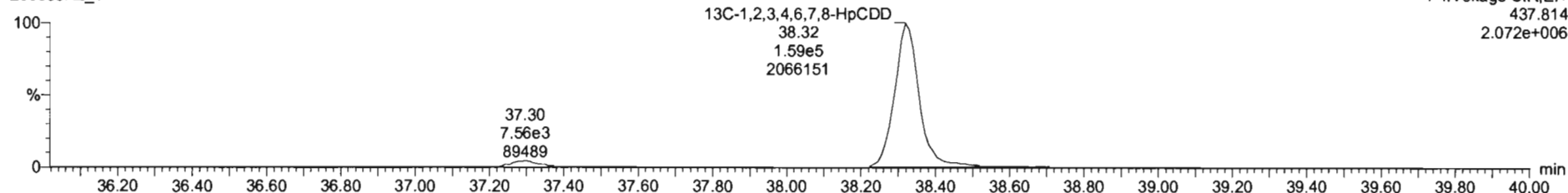


13C-1,2,3,4,6,7,8-HpCDD

200506R2_1



200506R2_1



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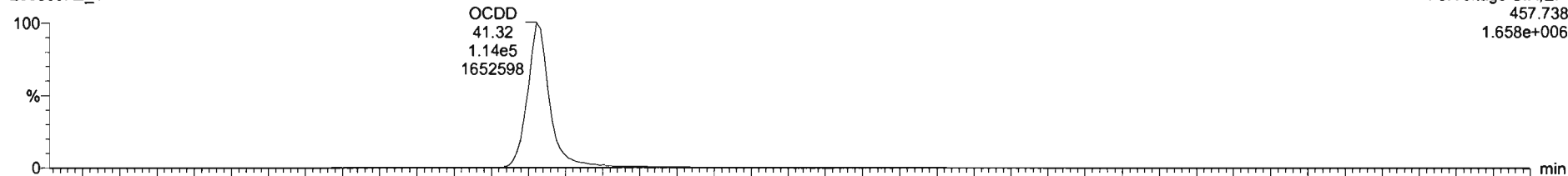
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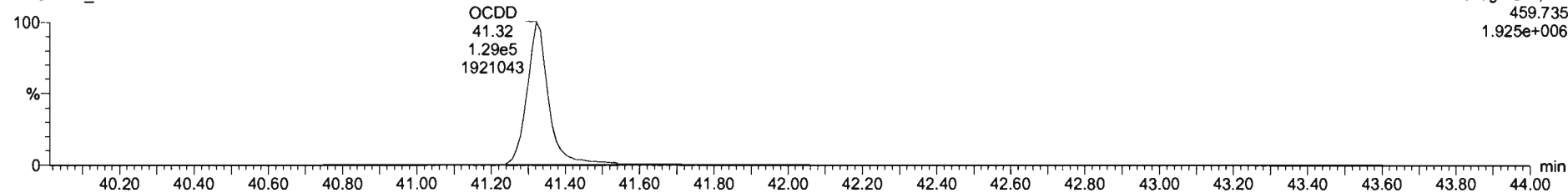
Name: 200506R2_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

OCDD

200506R2_1

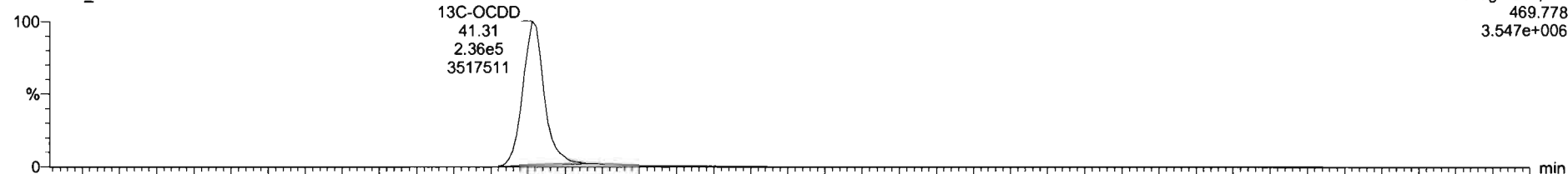


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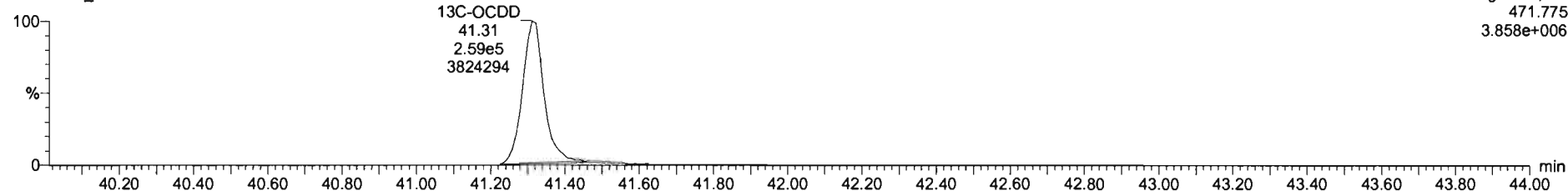


13C-OCDD

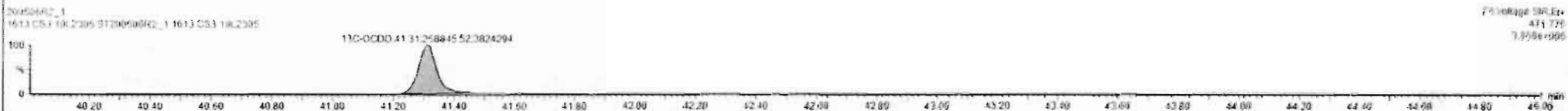
200506R2_1



200506R2_1



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	8.94e4	0.76	NO	0.95	1.000	26.99	1.001	9.41	95.1	0.0747	9.51
2 1,2,3,7,8-PeCDD	2.79e5	0.61	NO	0.94	1.000	31.09	1.000	47.1	94.2	0.222	47.1
3 1,2,3,4,7,8-HxCDD	2.22e5	1.25	NO	1.06	1.000	34.46	1.000	50.5	101	0.237	50.5
4 1,2,3,6,7,8-HxCDD	2.41e5	1.24	NO	0.91	1.000	34.57	1.001	47.3	95.7	0.236	47.9
5 1,2,3,7,8,9-HxCDD	2.10e5	1.24	NO	0.91	1.000	34.84	1.000	45.0	96.3	0.271	48.0
6 1,2,3,4,6,7,8-HpCDD	1.45e5	1.05	NO	0.99	1.000	38.34	1.001	49.2	100	0.713	50.2
7 OCDD	2.42e5	0.27	NO	0.93	1.000	41.32	1.000	105	105	0.206	105
8 2,3,7,8-TCDF	9.30e4	0.76	NO	0.79	1.000	26.03	1.001	9.08	98.5	0.0834	9.88
9 1,2,3,7,8-PeCDF	4.31e5	1.56	NO	0.91	1.000	29.77	1.000	48.4	99.5	0.149	48.4
10 1,2,3,4,7,8-HxCDF	4.37e5	1.57	NO	0.97	1.000	30.77	1.000	49.9	97.8	0.122	46.9
11 1,2,3,4,7,8-HxCDF	2.74e5	1.21	NO	0.88	1.000	33.61	1.001	52.2	104	0.181	52.2
12 1,2,3,6,7,8-HxCDF	2.27e5	1.18	NO	0.87	1.000	33.73	1.001	53.1	106	0.172	53.1
13 1,2,3,4,6,7,8-HpCDF	2.87e5	1.22	NO	0.92	1.000	34.29	1.000	52.8	106	0.186	52.8
14 1,2,3,7,8,9-HxCDF	1.96e5	1.20	NO	0.86	1.000	35.19	1.001	52.4	105	0.145	52.4
15 1,2,3,4,6,7,8-HpCDF	2.07e5	1.01	NO	0.87	1.000	36.81	1.000	54.2	108	0.216	54.2
16 1,2,3,4,7,8,9-HpCDF	1.20e5	0.97	NO	1.01	1.000	38.93	1.000	53.9	108	0.255	53.9
17 OCDF	2.28e5	0.86	NO	0.80	1.000	41.50	1.006	107	107	0.162	107
18 13C-2,3,7,8-TCDD	6.92e5	0.79	NO	1.16	1.000	25.96	1.027	104	104	0.142	
19 13C-1,2,3,7,8-PeCDD	6.29e5	0.63	NO	0.85	1.000	31.06	1.229	99.9	99.5	0.161	
20 13C-1,2,3,4,7,8-HpCDD	4.13e5	1.29	NO	0.75	1.000	34.45	1.014	96.1	96.1	0.462	
21 13C-1,2,3,4,7,8-HxCDD	5.58e5	1.27	NO	0.96	1.000	34.55	1.017	99.7	99.7	0.312	

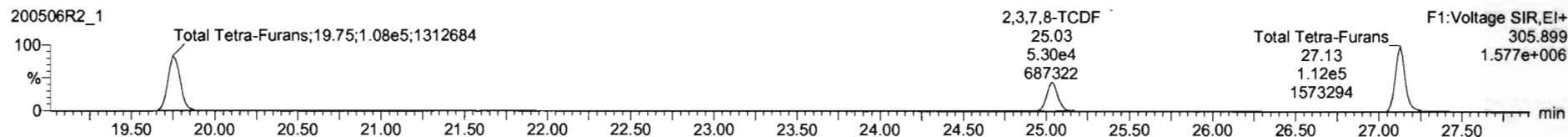
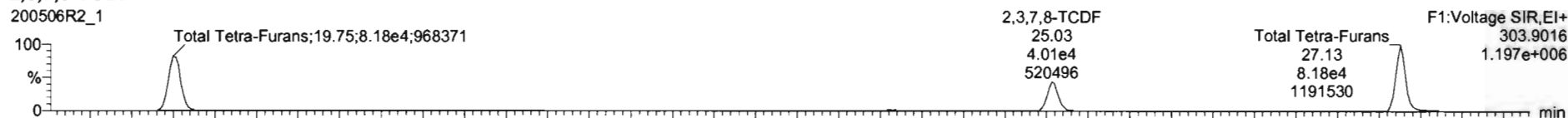


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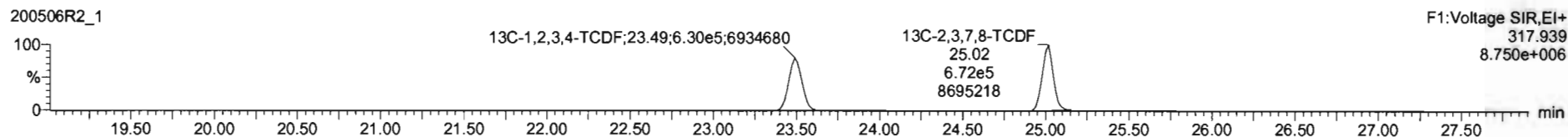
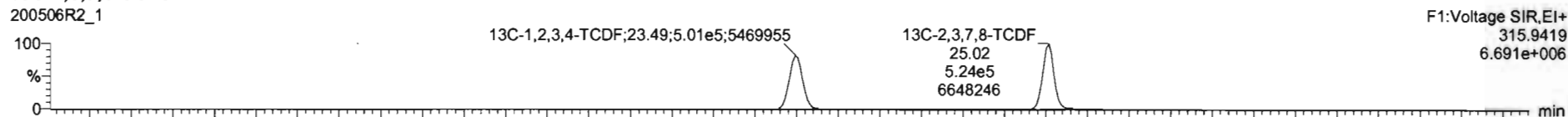
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Printed: Wednesday, May 06, 2020 2:24:15 PM Pacific Daylight Time

Name: 200506R2_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

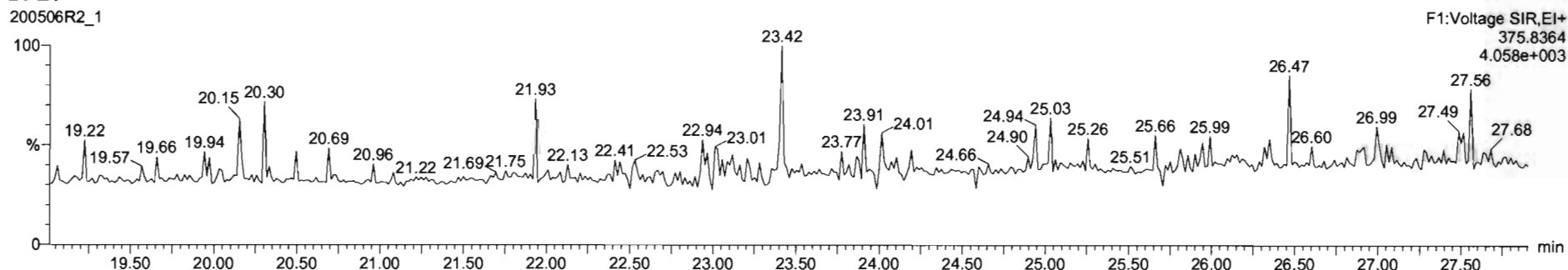
2,3,7,8-TCDF



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



DPE1



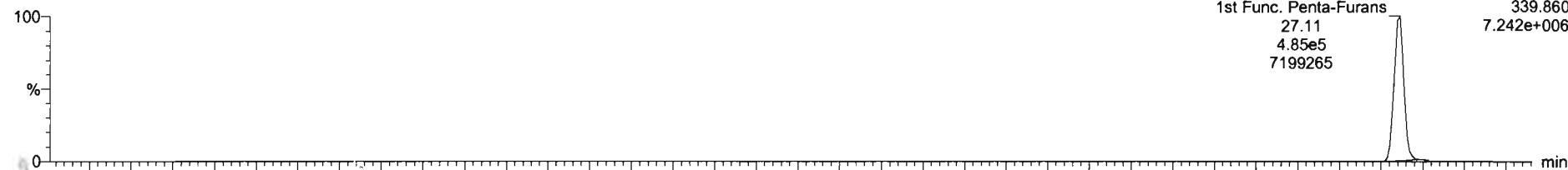
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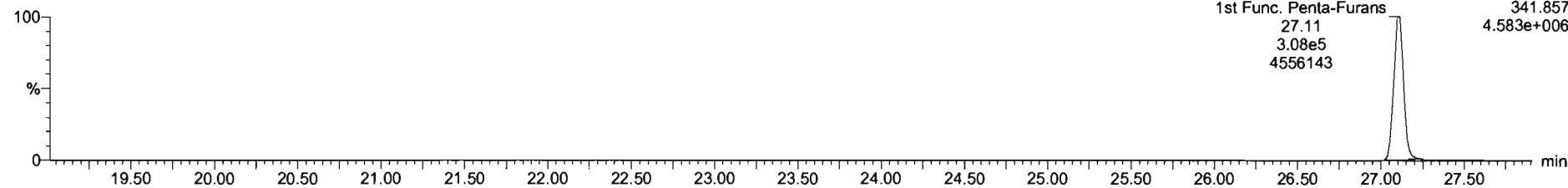
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200506R2_1

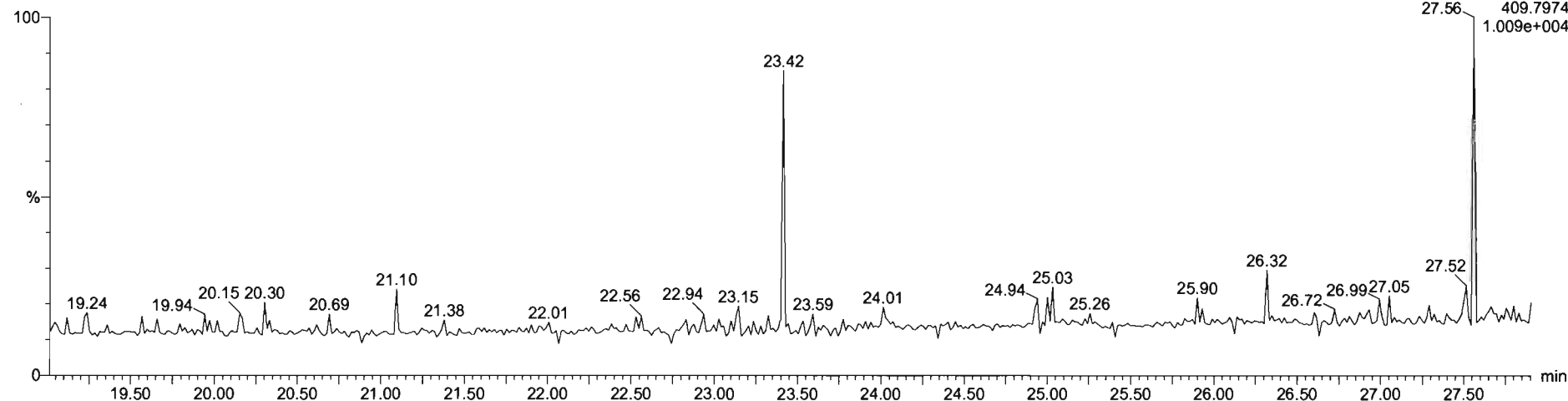


200506R2_1



DPE6

200506R2_1



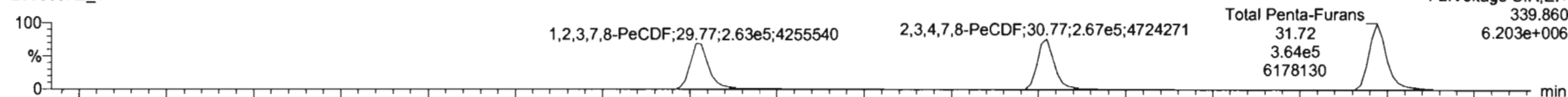
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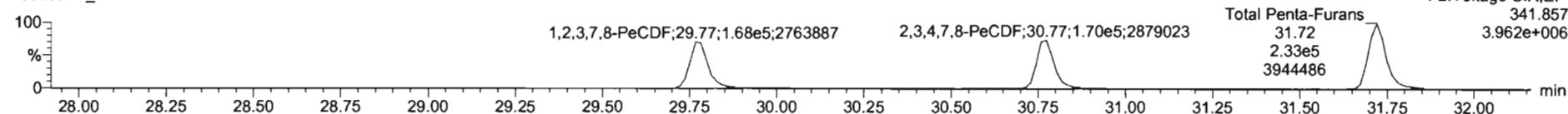
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1,2,3,7,8-PeCDF

200506R2_1

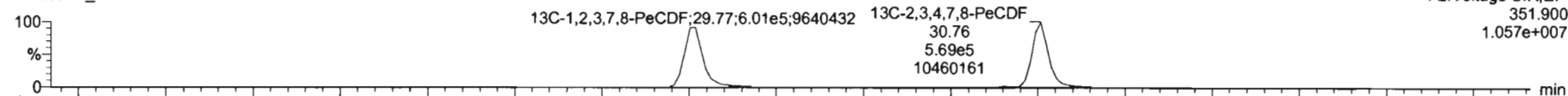


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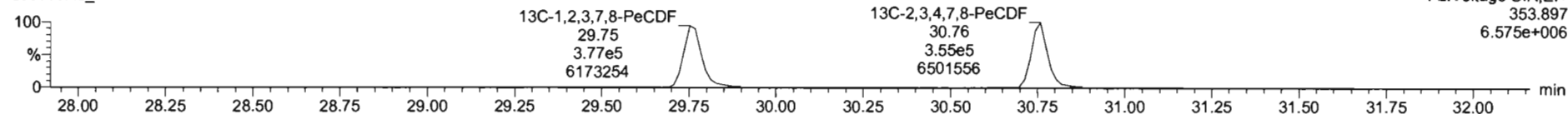


13C-1,2,3,7,8-PeCDF

200506R2_1

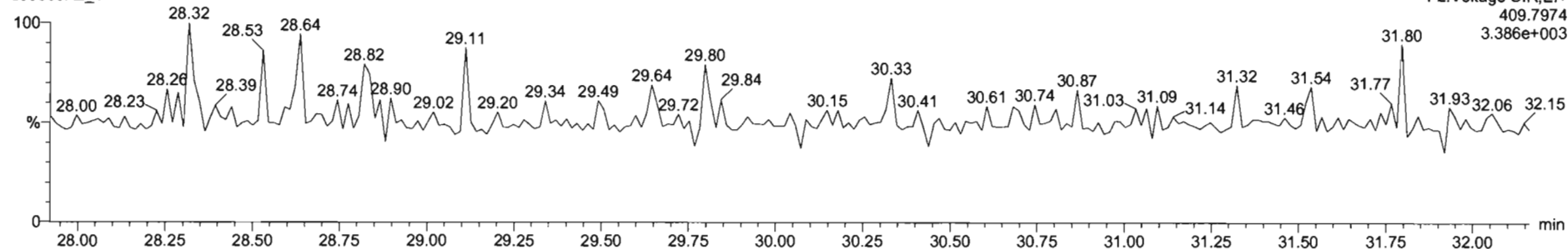


200506R2_1



DPE2

200506R2_1

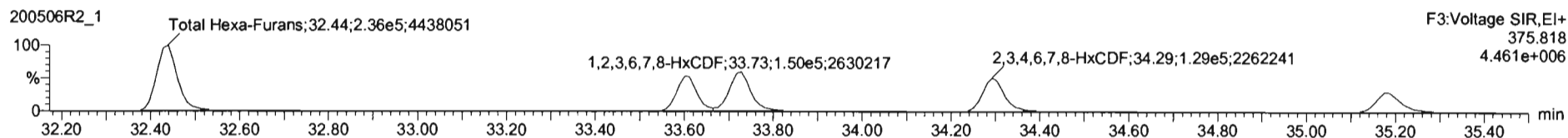
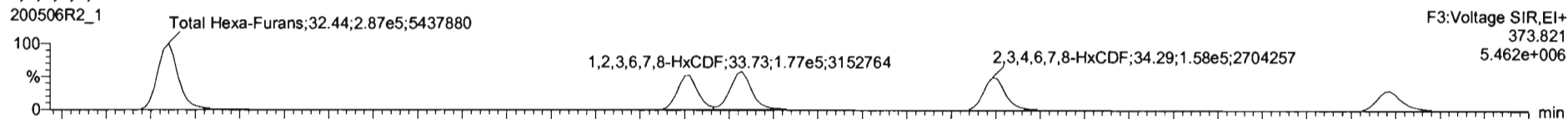


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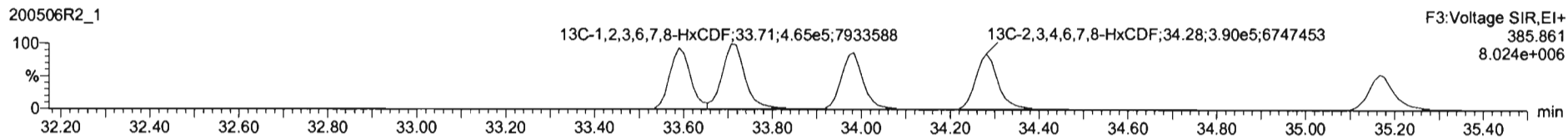
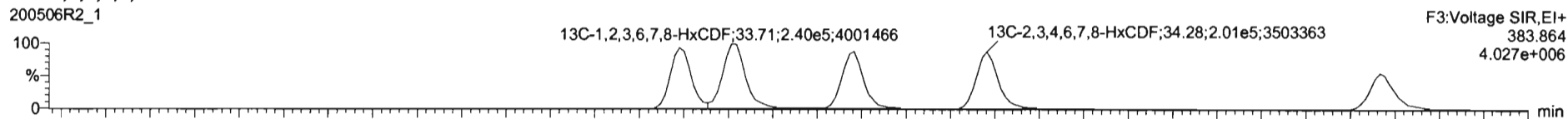
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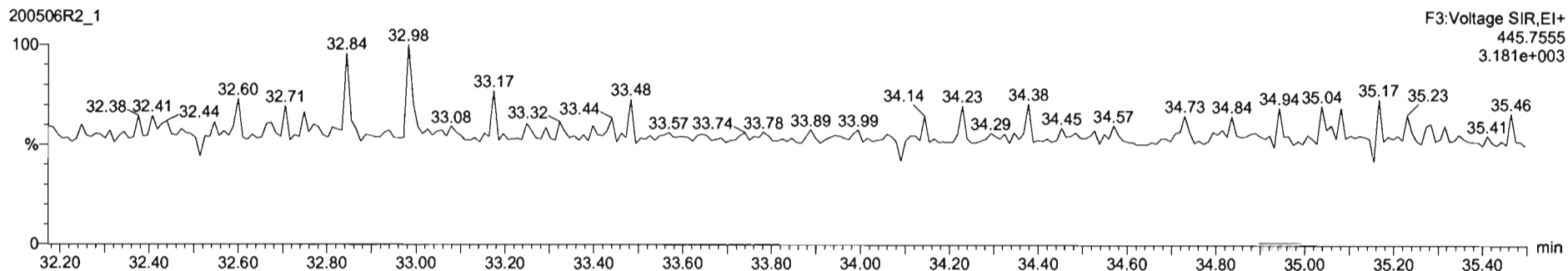
1,2,3,4,7,8-HxCDF



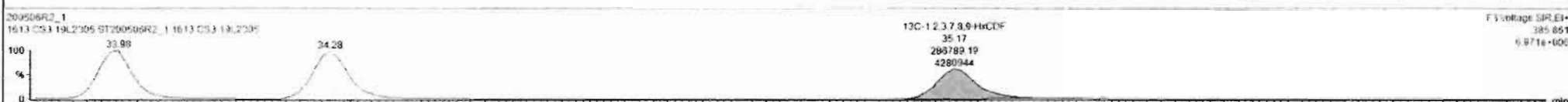
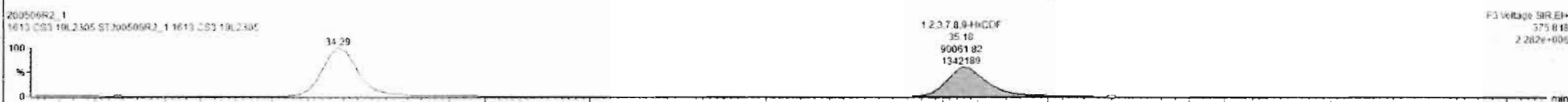
13C-1,2,3,4,7,8-HxCDF



DPE3



Name	Rinsp	RA	nty	RRF	WtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2.3.7.8-TCDD	6.04e4	0.76	NO	0.95	1.000	29.99	1.001	9.51	95.1	0.0747	9.51
2 1.2.3.7.8-PeCDD	2.79e5	0.51	NO	0.54	1.000	31.09	1.000	47.1	94.2	0.222	47.1
3 1.2.3.4.7.8-HxCDD	2.22e5	1.25	NO	1.06	1.000	34.46	1.000	59.5	101	0.237	59.5
4 1.2.3.6.7.8-HxCDD	2.41e5	1.24	NO	0.91	1.000	34.57	1.001	47.9	95.7	0.236	47.9
5 1.2.3.7.8.9-HxCDD	2.10e5	1.24	NO	0.91	1.000	34.64	1.000	48.0	96.0	0.271	48.0
6 1.2.3.4.6.7.8-HpCDD	1.45e5	1.05	NO	0.90	1.000	36.34	1.001	50.2	100	0.312	50.2
7 OCDD	2.42e5	0.87	NO	0.93	1.000	41.32	1.000	105	105	0.206	105
8 2.3.7.8-TCDF	9.30e4	0.76	NO	0.79	1.000	29.03	1.001	6.66	68.6	0.0834	9.68
9 1.2.3.7.8-PeCDF	4.31e5	1.56	NO	0.91	1.000	29.77	1.000	48.4	90.5	0.140	48.4
10 2.3.4.7.8-PeCDF	4.37e5	1.57	NO	0.97	1.000	30.77	1.000	48.9	97.8	0.122	48.9
11 1.2.3.4.7.8-HxCDF	2.74e5	1.21	NO	0.88	1.000	33.61	1.001	52.2	104	0.161	52.2
12 1.2.3.6.7.8-HxCDF	2.27e5	1.18	NO	0.87	1.000	33.73	1.001	53.1	106	0.172	53.1
13 2.3.4.6.7.8-HxCDF	2.87e5	1.22	NO	0.92	1.000	34.29	1.000	52.8	106	0.180	52.8
14 2.3.7.8.9-HxCDF	1.96e5	1.20	NO	0.88	1.000	35.19	1.001	52.8	105	0.311	52.0
15 1.2.3.4.6.7.8-HpCDF	2.07e5	1.01	NO	0.87	1.000	36.91	1.000	54.2	108	0.216	54.2
16 1.2.3.4.7.8.9-HpCDF	1.20e5	0.97	NO	1.01	1.000	38.93	1.000	53.9	108	0.258	53.9
17 OCDF	2.28e5	0.86	NO	0.88	1.000	41.58	1.000	107	107	0.182	107
18 13C-2.3.7.8-TCDD	6.52e5	0.79	NO	1.16	1.000	29.96	1.017	104	104	0.142	
19 13C-1.2.3.7.8-PeCDD	6.26e5	0.63	NO	0.85	1.000	31.08	1.225	99.9	99.5	0.161	
20 13C-1.2.3.4.7.8-HxCDD	4.13e5	1.29	NO	0.75	1.000	34.48	1.014	96.1	96.1	0.402	
21 13C-1.2.3.6.7.8-HxCDD	5.58e5	1.27	NO	0.96	1.000	34.55	1.017	99.7	99.7	0.313	



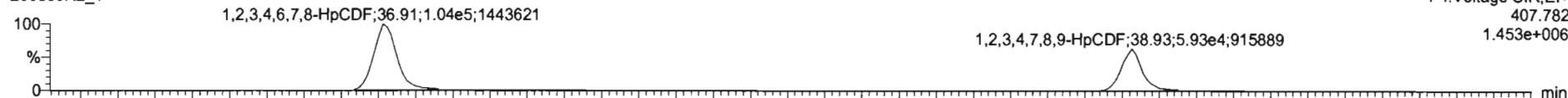
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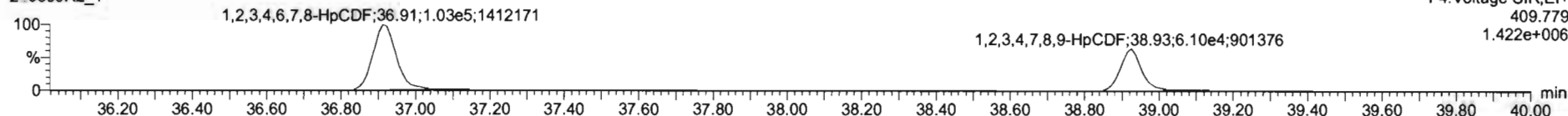
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1,2,3,4,6,7,8-HpCDF

200506R2_1

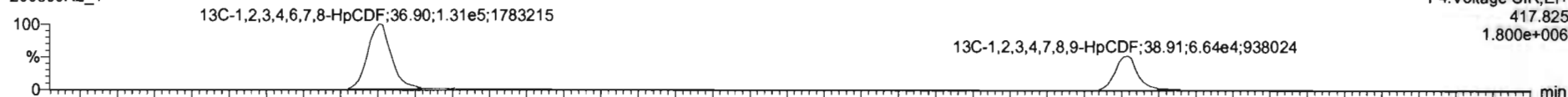


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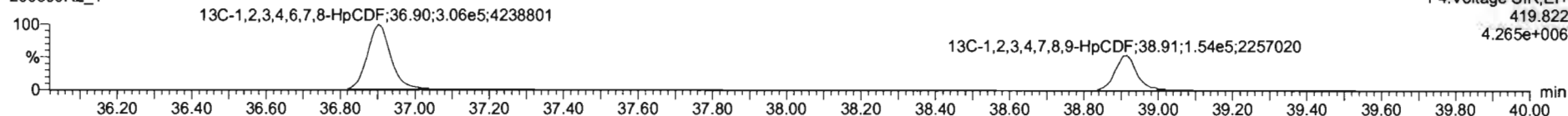


13C-1,2,3,4,6,7,8-HpCDF

200506R2_1

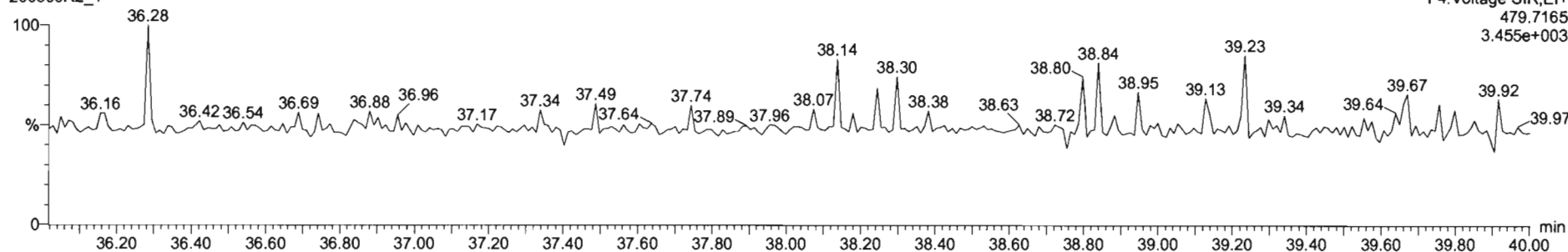


200506R2_1



DPE4

200506R2_1

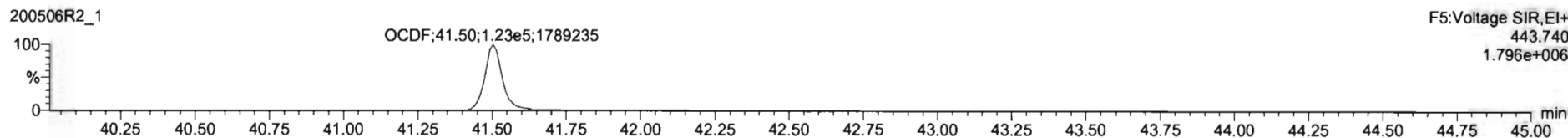
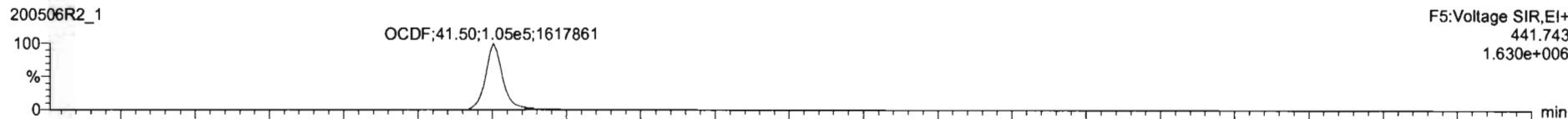


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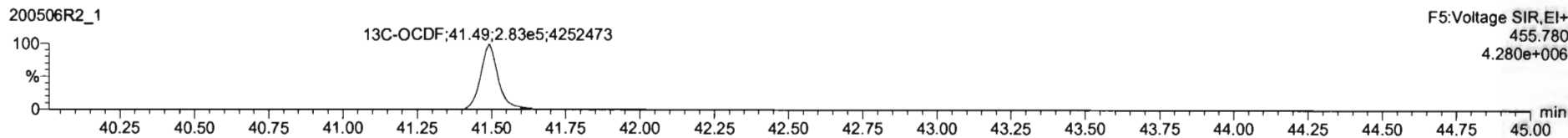
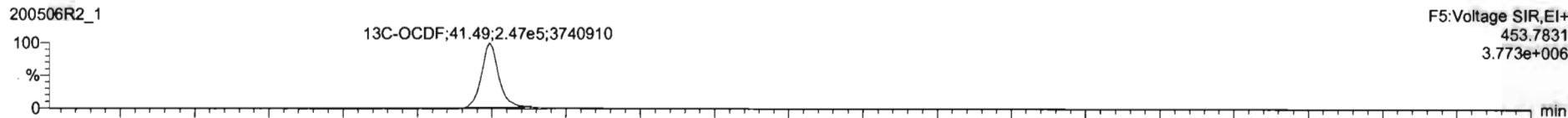
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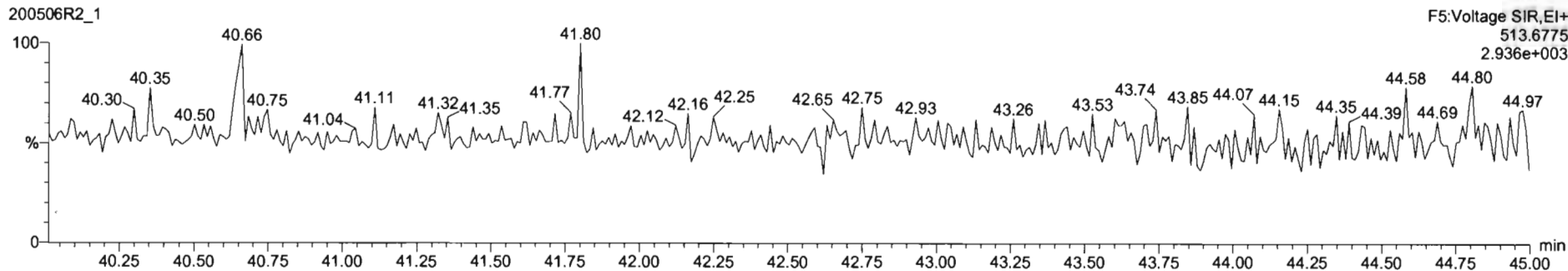
OCDF



13C-OCDF



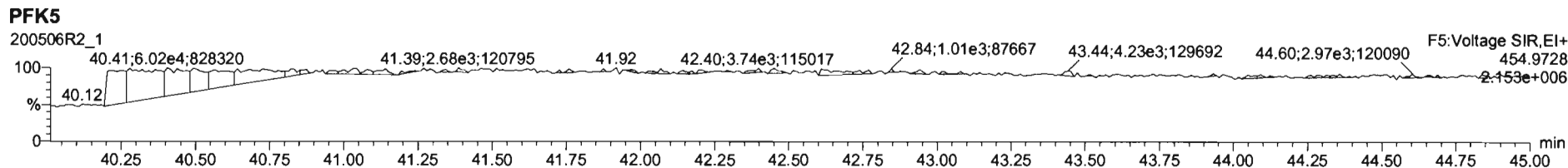
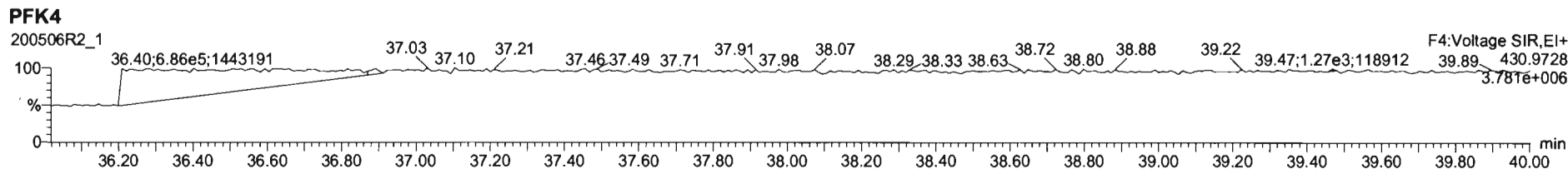
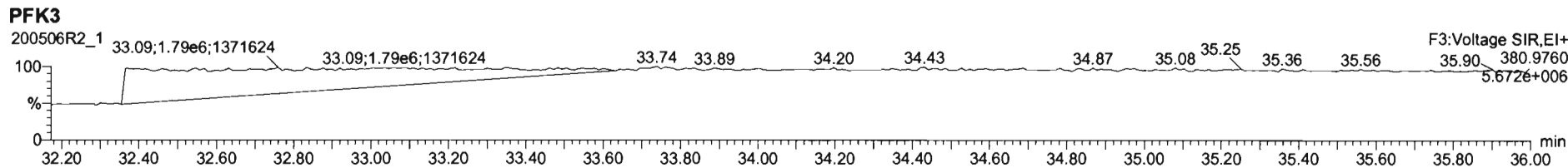
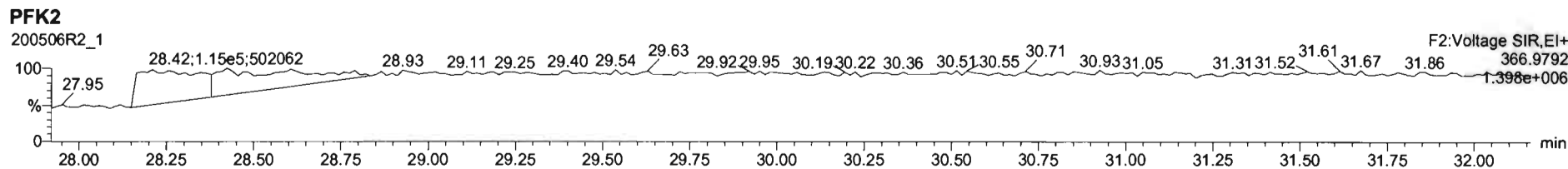
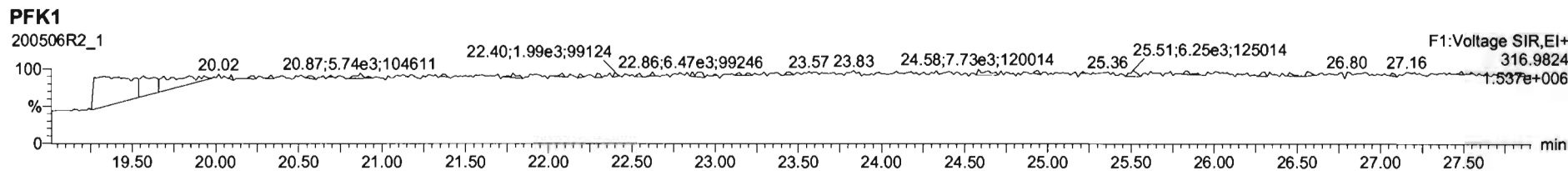
DPE5



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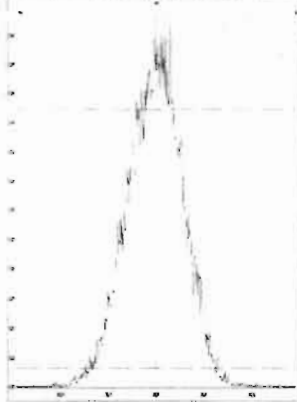
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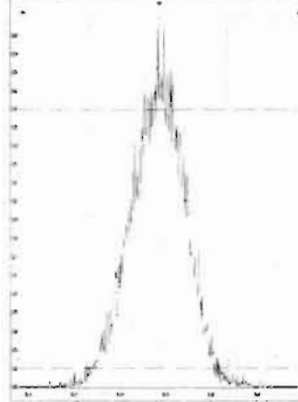
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Printed: Thursday, May 07, 2020 07:14:01 Pacific Daylight Time

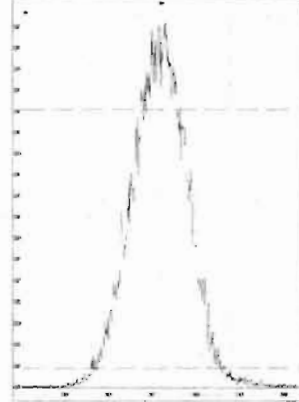
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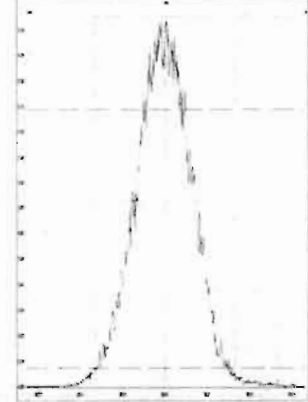
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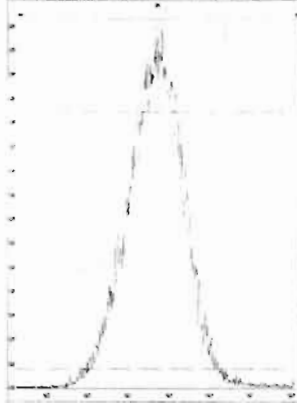
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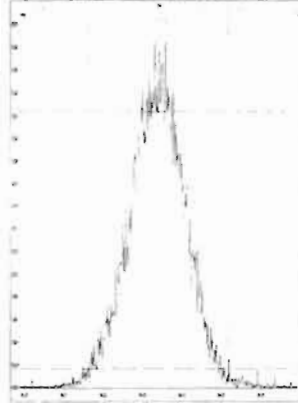
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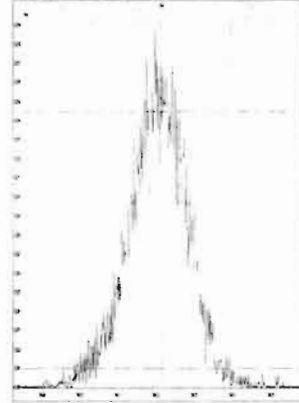
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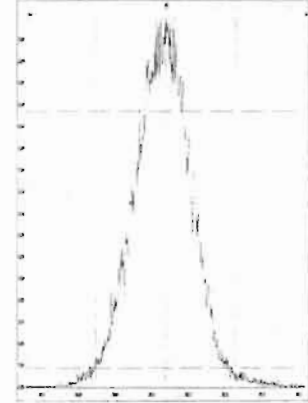
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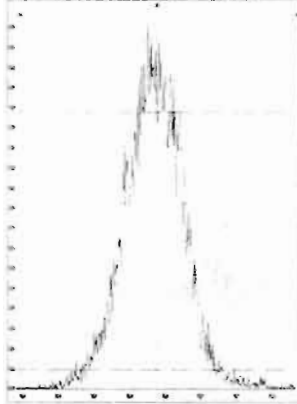
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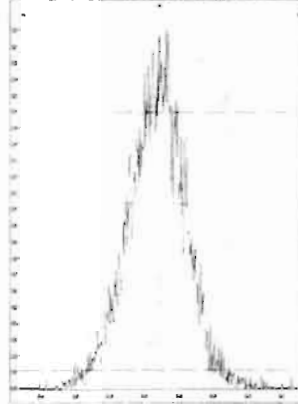
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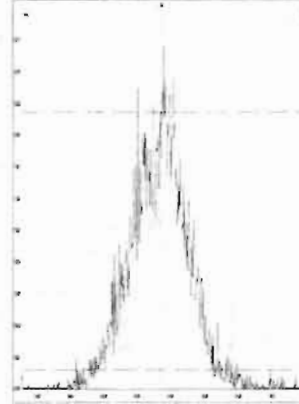
M 392.9760 R 10595



M 404.9760 R 10246



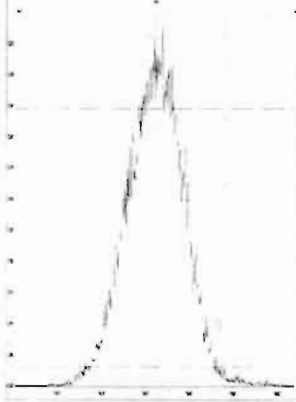
M 416.9760 R 10244



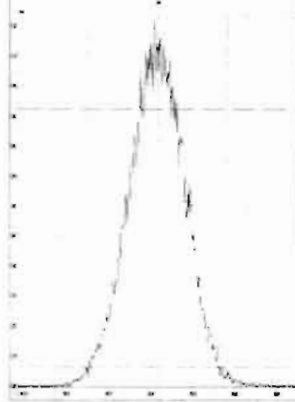
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, May 07, 2020 07:15:21 Pacific Daylight Time

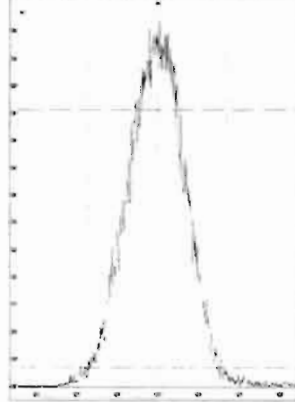
M 318.9792 R 11212



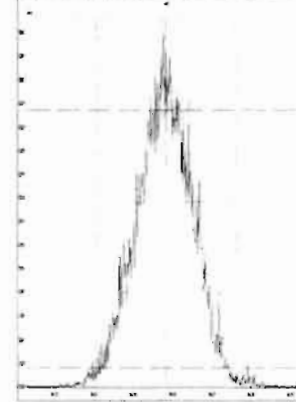
M 330.9792 R 10921



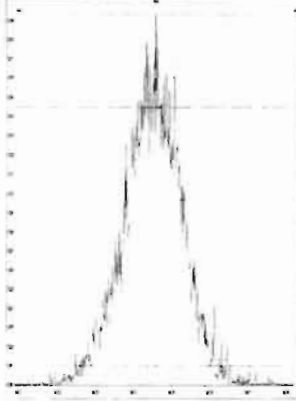
M 342.9792 R 10966



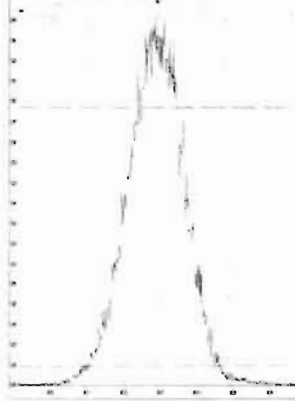
M 354.9792 R 10916



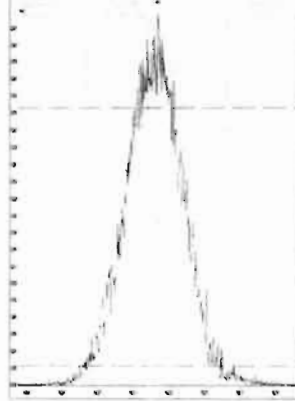
M 366.9792 R 10590



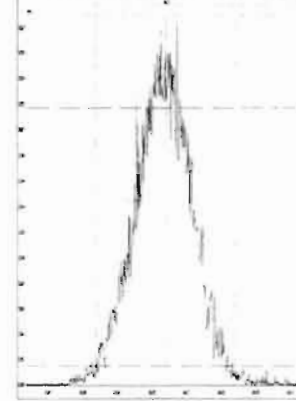
M 380.9760 R 11111



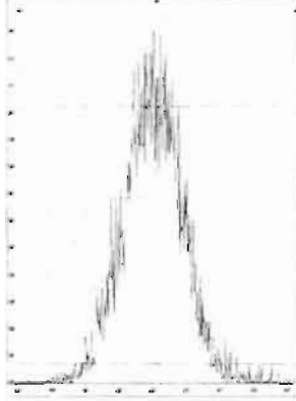
M 392.9760 R 10502



M 404.9760 R 10965



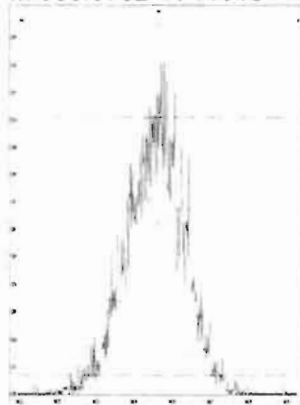
M 416.9760 R 11736



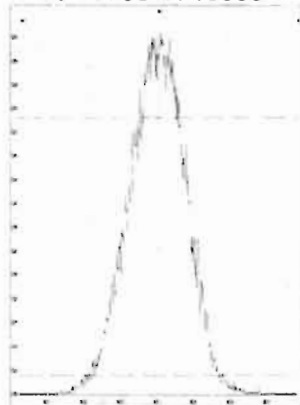
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, May 07, 2020 07:15:55 Pacific Daylight Time

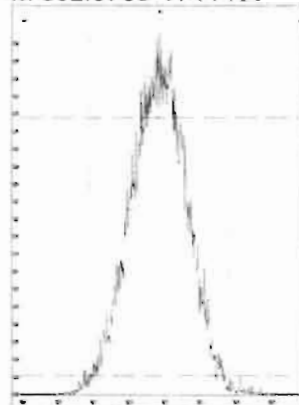
M 366.9792 R 11310



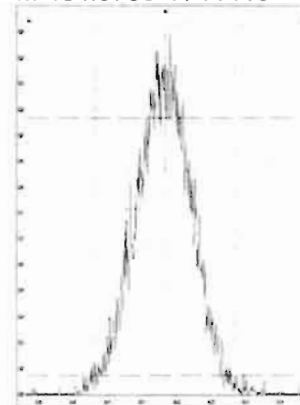
M 380.9760 R 10965



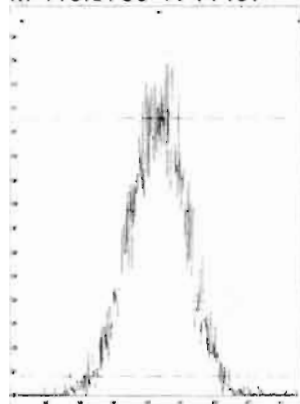
M 392.9760 R 11466



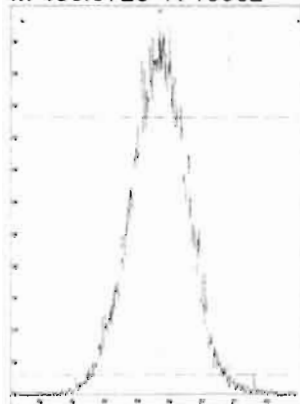
M 404.9760 R 11416



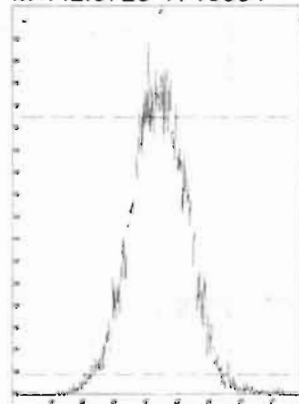
M 416.9760 R 11467



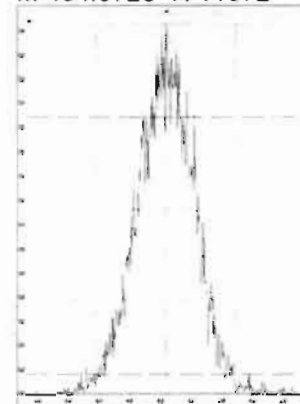
M 430.9728 R 10502



M 442.9728 R 10684



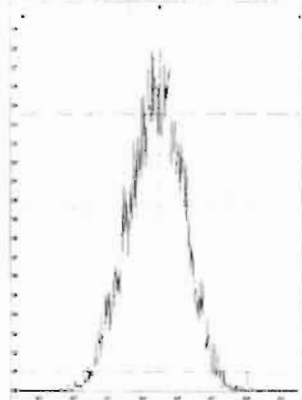
M 454.9728 R 11572



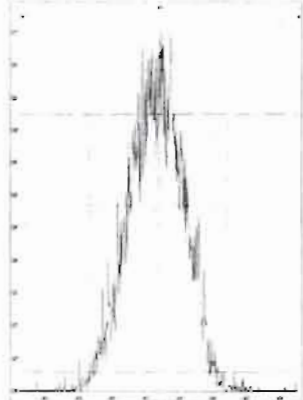
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, May 07, 2020 07:16:10 Pacific Daylight Time

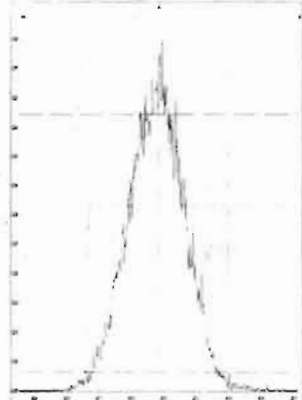
M 404.9760 R 11626



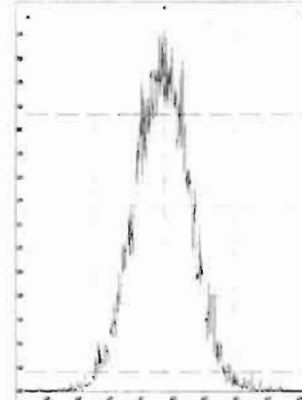
M 416.9760 R 11521



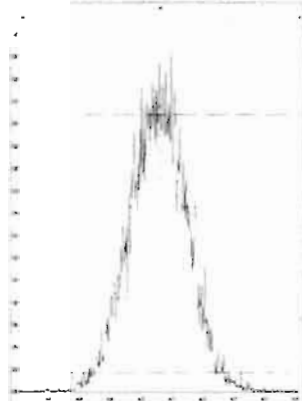
M 430.9728 R 11210



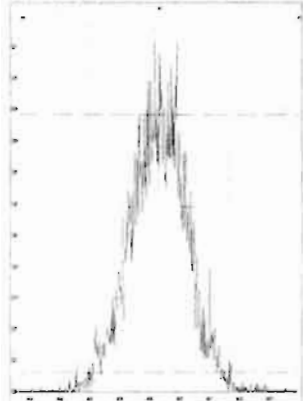
M 442.9728 R 11014



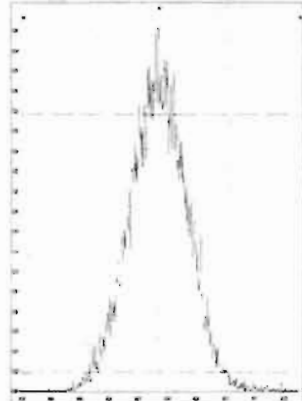
M 454.9728 R 11520



M 466.9728 R 11680



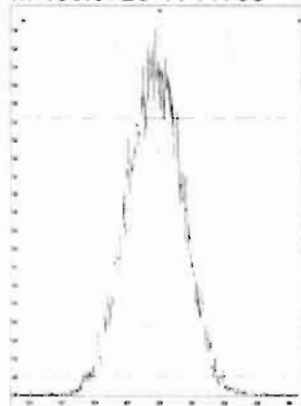
M 480.9696 R 11013



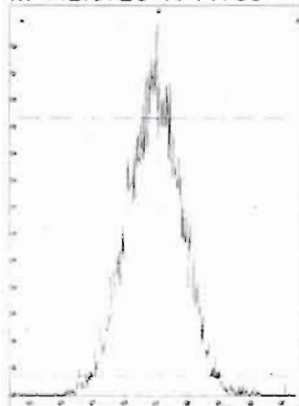
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, May 07, 2020 07:16:27 Pacific Daylight Time

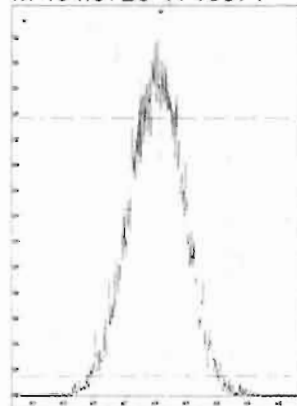
M 430.9728 R 11738



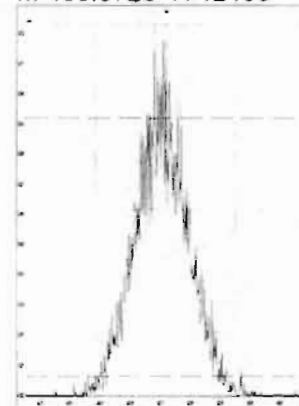
M 442.9728 R 11736



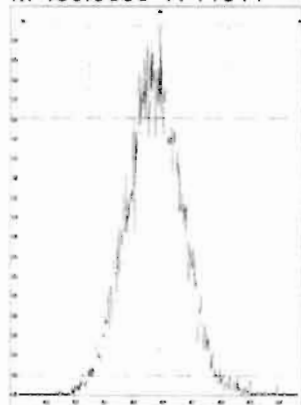
M 454.9728 R 10871



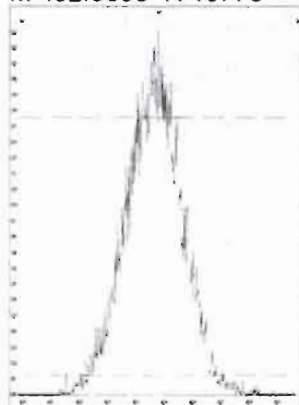
M 466.9728 R 12195



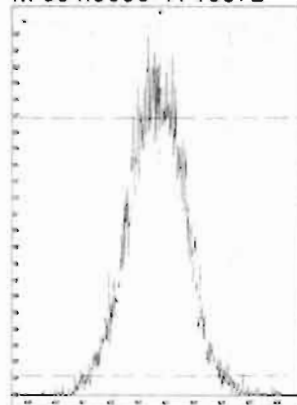
M 480.9696 R 11311



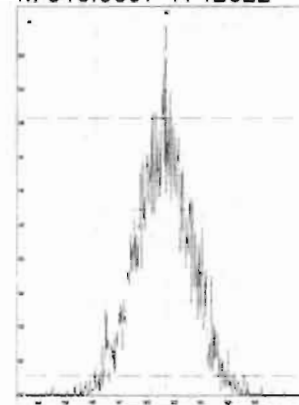
M 492.9696 R 10773



M 504.9696 R 10872



M 516.9697 R 12822



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST20050722-1

Reviewed By: CM 05/08/2020
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" 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 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 type="checkbox" value="NA"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GC Break <20% <input type="checkbox" value="NA"/>		
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 type="checkbox" value="NA"/>	
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Comments:		
Correct ICAL referenced?	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
<u>Run Log:</u>					
- Correct Instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox" value="v"/>			
- Samples within 12 hour clock?	<input type="checkbox" value="Y"/>	<input type="checkbox" value="N"/>			
- Bottle position verified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>			

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-1.qld

Last Altered: Thursday, May 07, 2020 3:22:08 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 3:22:30 PM Pacific Daylight Time

GRB 05/07/2020

CT 05/08/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\cb5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200507R2_1, Date: 07-May-2020, Time: 14:32:16, ID: ST200507R2_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	6.61e4	7.09e5	0.75	NO	0.947	25.98	25.97	NO	1.001	1.001	9.8354	98.4	NO
2	2 1,2,3,7,8-PeCDD	2.17e5	4.98e5	0.62	NO	0.942	31.09	31.08	NO	1.001	1.000	46.351	92.7	NO
3	3 1,2,3,4,7,8-HxCDD	1.63e5	3.23e5	1.25	NO	1.06	34.45	34.46	NO	1.000	1.001	47.410	94.8	NO
4	4 1,2,3,6,7,8-HxCDD	1.93e5	4.33e5	1.26	NO	0.915	34.55	34.56	NO	1.000	1.000	48.854	97.7	NO
5	5 1,2,3,7,8,9-HxCDD	1.62e5	3.72e5	1.26	NO	0.915	34.84	34.84	NO	1.000	1.000	47.498	95.0	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.13e5	2.51e5	1.07	NO	0.898	38.34	38.33	NO	1.000	1.000	49.949	99.9	NO
7	7 OCDD	1.69e5	3.71e5	0.89	NO	0.933	41.31	41.32	NO	1.000	1.000	97.301	97.3	NO
8	8 2,3,7,8-TCDF	7.03e4	9.44e5	0.75	NO	0.787	25.03	25.03	NO	1.001	1.001	9.4599	94.6	NO
9	9 1,2,3,7,8-PeCDF	3.30e5	7.57e5	1.58	NO	0.910	29.77	29.77	NO	1.001	1.001	47.944	95.9	NO
10	10 2,3,4,7,8-PeCDF	3.27e5	7.30e5	1.57	NO	0.966	30.79	30.76	NO	1.001	1.000	46.393	92.8	NO
11	11 1,2,3,4,7,8-HxCDF	2.11e5	4.65e5	1.22	NO	0.878	33.59	33.60	NO	1.000	1.000	51.693	103	NO
12	12 1,2,3,6,7,8-HxCDF	2.46e5	5.38e5	1.25	NO	0.874	33.72	33.72	NO	1.000	1.000	52.254	105	NO
13	13 2,3,4,6,7,8-HxCDF	2.24e5	4.76e5	1.20	NO	0.922	34.32	34.29	NO	1.001	1.000	51.124	102	NO
14	14 1,2,3,7,8,9-HxCDF	1.52e5	3.28e5	1.22	NO	0.864	35.17	35.18	NO	1.000	1.000	53.546	107	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.58e5	3.40e5	0.98	NO	0.871	36.94	36.91	NO	1.001	1.000	53.331	107	NO
16	16 1,2,3,4,7,8,9-HpCDF	9.03e4	1.66e5	0.99	NO	1.01	38.92	38.93	NO	1.000	1.000	53.770	108	NO
17	17 OCDF	1.44e5	3.50e5	0.87	NO	0.802	41.49	41.50	NO	1.000	1.000	102.65	103	NO
18	18 13C-2,3,7,8-TCDD	7.09e5	6.09e5	0.77	NO	1.16	25.94	25.94	NO	1.026	1.027	100.37	100	NO
19	19 13C-1,2,3,7,8-PeCDD	4.98e5	6.09e5	0.62	NO	0.847	31.01	31.06	NO	1.227	1.229	96.420	96.4	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.23e5	4.44e5	1.29	NO	0.750	34.45	34.44	NO	1.014	1.014	97.005	97.0	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.33e5	4.44e5	1.28	NO	0.963	34.56	34.55	NO	1.017	1.017	101.17	101	NO
22	22 13C-1,2,3,7,8,9-HxCDD	3.72e5	4.44e5	1.25	NO	0.838	34.83	34.83	NO	1.025	1.025	99.995	100	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.51e5	4.44e5	1.03	NO	0.641	38.32	38.33	NO	1.128	1.128	88.200	88.2	NO
24	24 13C-OCDD	3.71e5	4.44e5	0.88	NO	0.586	41.31	41.31	NO	1.216	1.216	142.56	71.3	NO
25	25 13C-2,3,7,8-TCDF	9.44e5	9.14e5	0.76	NO	1.03	25.00	25.00	NO	0.989	0.989	99.893	99.9	NO
26	26 13C-1,2,3,7,8-PeCDF	7.57e5	9.14e5	1.59	NO	0.845	29.71	29.75	NO	1.176	1.177	98.062	98.1	NO
27	27 13C-2,3,4,7,8-PeCDF	7.30e5	9.14e5	1.57	NO	0.814	30.69	30.76	NO	1.215	1.217	98.145	98.1	NO
28	28 13C-1,2,3,4,7,8-HxCDF	4.65e5	4.44e5	0.51	NO	1.00	33.59	33.59	NO	0.989	0.989	104.14	104	NO
29	29 13C-1,2,3,6,7,8-HxCDF	5.38e5	4.44e5	0.52	NO	1.14	33.71	33.71	NO	0.992	0.992	106.51	107	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.76e5	4.44e5	0.50	NO	1.02	34.28	34.28	NO	1.009	1.009	104.87	105	NO
31	31 13C-1,2,3,7,8,9-HxCDF	3.28e5	4.44e5	0.51	NO	0.845	35.17	35.17	NO	1.035	1.035	87.294	87.3	NO

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-1.qld

Last Altered: Thursday, May 07, 2020 3:22:08 PM Pacific Daylight Time

Printed: Thursday, May 07, 2020 3:22:30 PM Pacific Daylight Time

Name: 200507R2_1, Date: 07-May-2020, Time: 14:32:16, ID: ST200507R2_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	3.40e5	4.44e5	0.43	NO	0.771	36.90	36.90	NO	1.086	1.086	99.111	99.1	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.66e5	4.44e5	0.42	NO	0.482	38.91	38.92	NO	1.145	1.145	77.470	77.5	NO
34	34 13C-OCDF	3.50e5	4.44e5	0.87	NO	0.669	41.48	41.49	NO	1.221	1.221	117.80	58.9	NO
35	35 37Cl-2,3,7,8-TCDD	6.41e4	6.09e5			1.10	25.97	25.97	NO	1.028	1.028	9.5732	95.7	NO
36	36 13C-1,2,3,4-TCDD	6.09e5	6.09e5	0.79	NO	1.00	25.35	25.27	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	9.14e5	9.14e5	0.77	NO	1.00	23.56	23.48	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	4.44e5	4.44e5	0.51	NO	1.00	34.00	33.97	NO	1.000	1.000	100.00	100	YES 

Dataset: Untitled

Last Altered: Friday, May 08, 2020 7:17:31 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 7:18:36 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

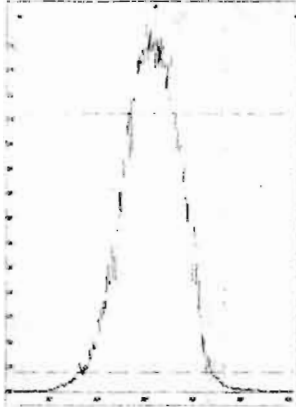
Compound name: OCDD

	Name	ID	Acq.Date	Acq.Time
1	200507R2_1	ST200507R2_1 1613 CS3 19L2305	07-May-20	14:32:16
2	200507R2_2	SOLVENT BLANK	07-May-20	15:19:20
3	200507R2_3	2000952-03 PDI-158SC-A-06-07-200423 12.38	07-May-20	16:05:36
4	200507R2_4	2000952-04 PDI-158SC-A-07-08-200423 11.57	07-May-20	16:51:47
5	200507R2_5	2000952-05 PDI-160SC-A-00-01-200423 12.66	07-May-20	17:38:00
6	200507R2_6	2000952-06 PDI-160SC-A-01-02-200423 11.31	07-May-20	18:24:10
7	200507R2_7	2000952-07 PDI-160SC-A-02-03-200423 12.43	07-May-20	19:10:22
8	200507R2_8	2000952-08 PDI-160SC-A-03-04-200423 11.13	07-May-20	19:56:35
9	200507R2_9	2000952-09 PDI-160SC-A-04-05-200423 12.83	07-May-20	20:42:46
10	200507R2_10	2000952-10 PDI-160SC-A-05-06-200423 13.33	07-May-20	21:28:58
11	200507R2_11	2000952-11 PDI-160SC-A-06-07-200423 11.27	07-May-20	22:15:10
12	200507R2_12	2000952-12 PDI-160SC-A-07-08-200423 11.38	07-May-20	23:01:21
13	200507R2_13	2000953-03 PDI-165SC-A-02-03-200426 12.05	07-May-20	23:47:31
14	200507R2_14	2000953-04 PDI-165SC-A-03-04-200426 12.12	08-May-20	00:33:43
15	200507R2_15	2000953-05 PDI-165SC-A-04-05-200426 12.11	08-May-20	01:20:05
16	200507R2_16	2000953-06 PDI-165SC-A-05-06-200426 12.02	08-May-20	02:06:17

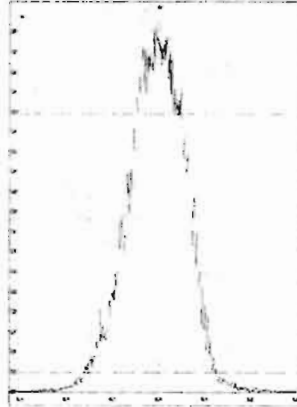
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, May 07, 2020 14:29:34 Pacific Daylight Time

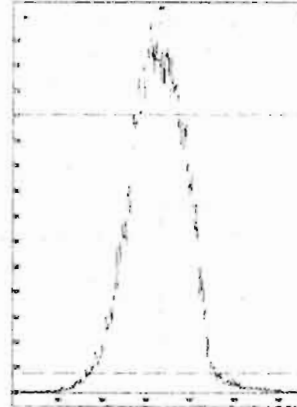
M 292.9824 R 10916



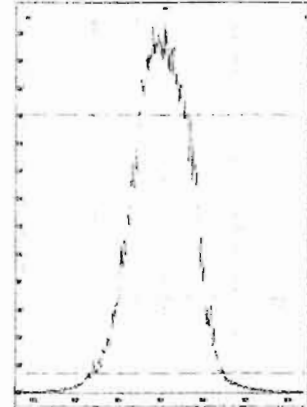
M 304.9824 R 10685



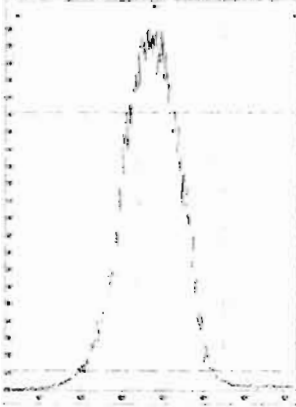
M 318.9792 R 11008



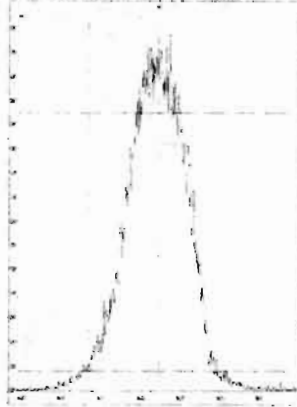
M 330.9792 R 10591



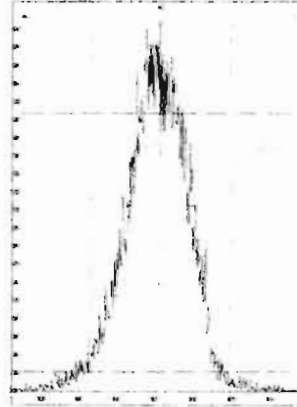
M 342.9792 R 10917



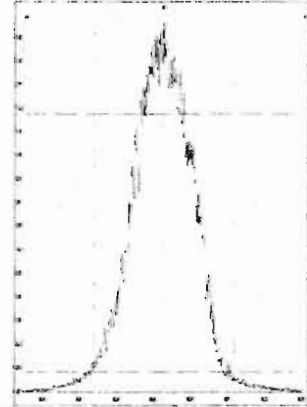
M 354.9792 R 10821



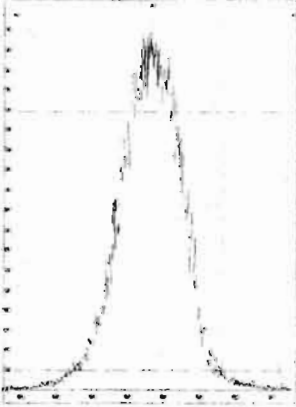
M 366.9792 R 10505



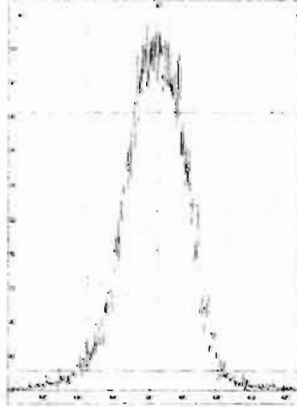
M 380.9760 R 10503



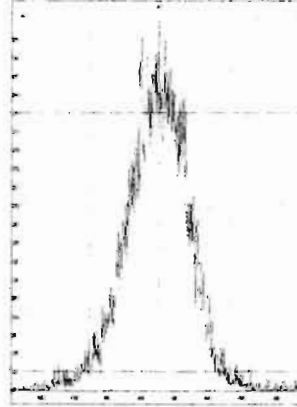
M 392.9760 R 10414



M 404.9760 R 10330



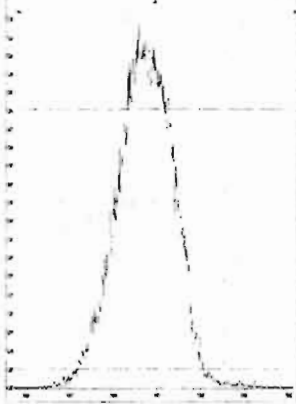
M 416.9760 R 11064



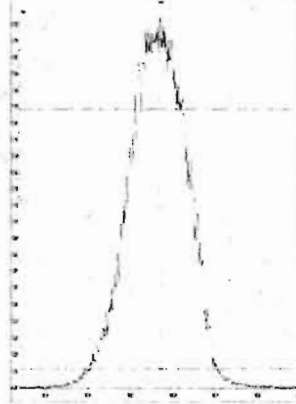
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, May 07, 2020 14:30:12 Pacific Daylight Time

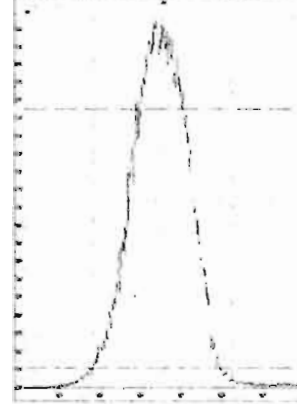
M 318.9792 R 11062



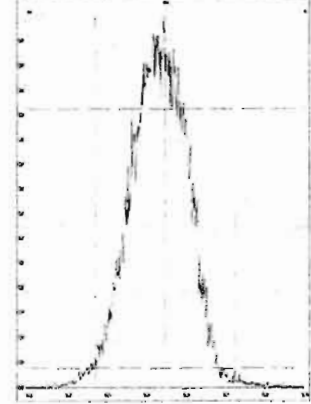
M 330.9792 R 11060



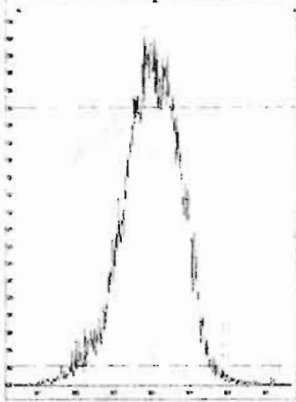
M 342.9792 R 10726



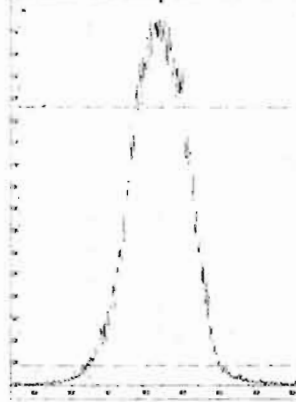
M 354.9792 R 10964



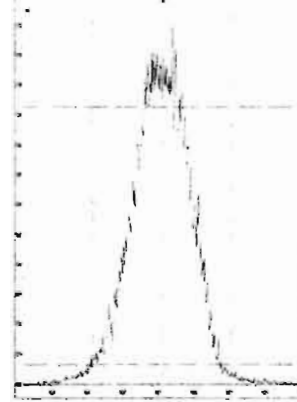
M 366.9792 R 11309



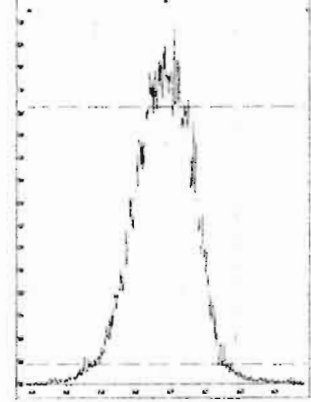
M 380.9760 R 10822



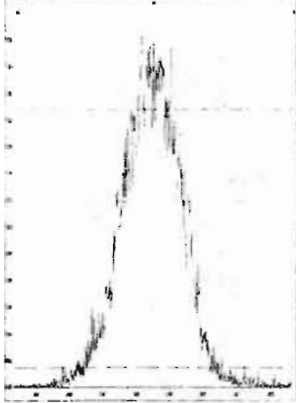
M 392.9760 R 10547



M 404.9760 R 10549



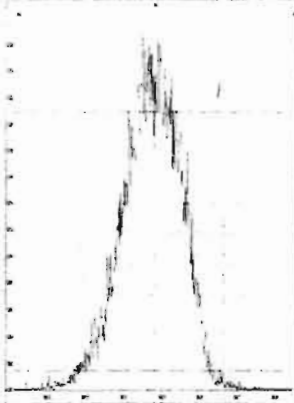
M 416.9760 R 11061



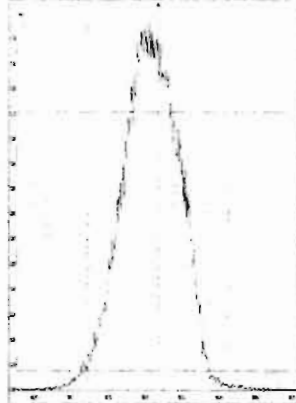
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, May 07, 2020 14:30:55 Pacific Daylight Time

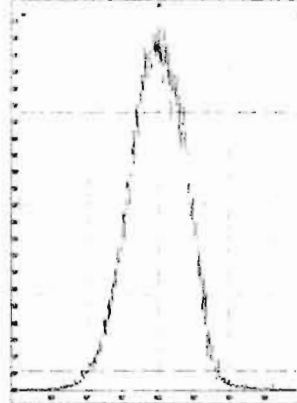
M 366.9792 R 10285



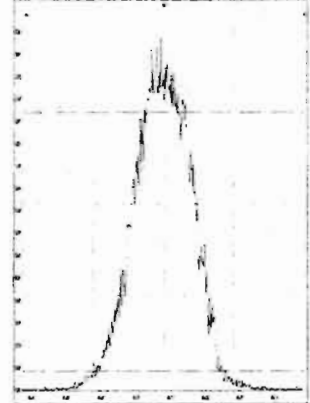
M 380.9760 R 11257



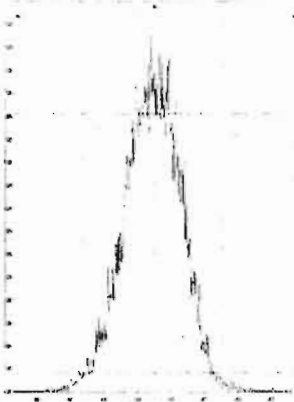
M 392.9760 R 11012



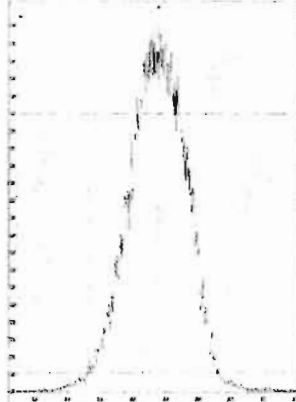
M 404.9760 R 10966



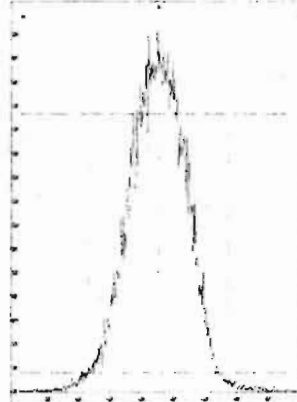
M 416.9760 R 11573



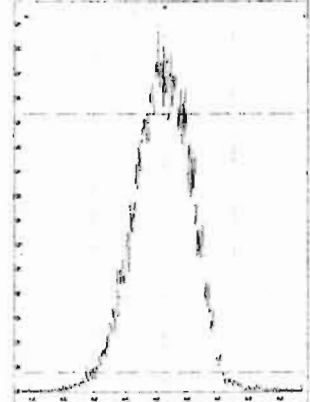
M 430.9728 R 10777



M 442.9728 R 11013



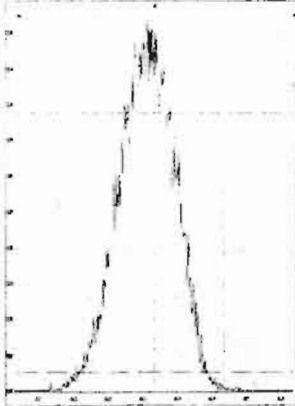
M 454.9728 R 11011



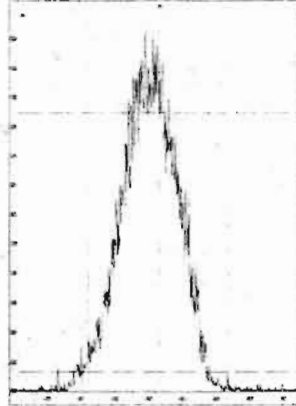
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Printed: Thursday, May 07, 2020 14:31:21 Pacific Daylight Time

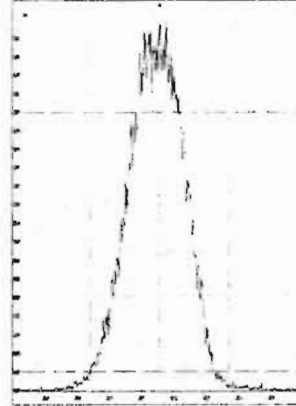
M 404.9760 R 10773



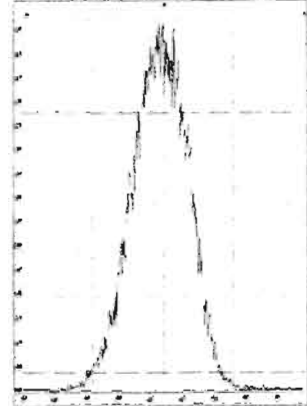
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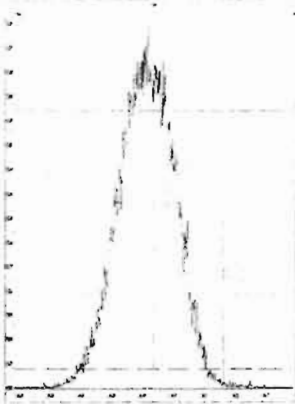
M 430.9728 R 11311



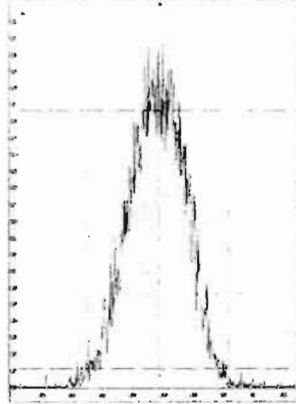
M 442.9728 R 10773



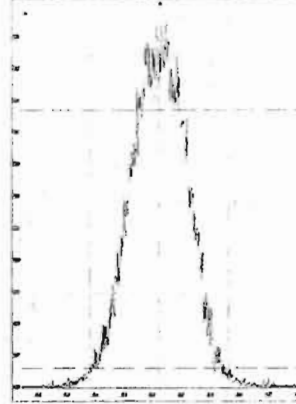
M 454.9728 R 11214



M 466.9728 R 11469



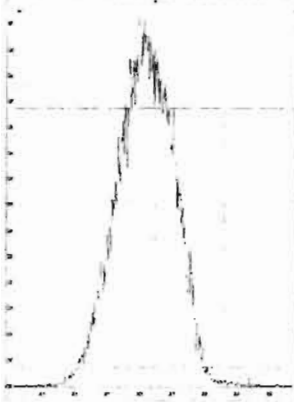
M 480.9696 R 11261



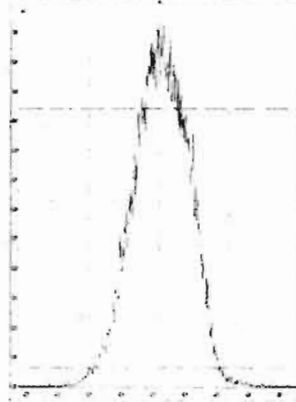
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Printed: Thursday, May 07, 2020 14:31:54 Pacific Daylight Time

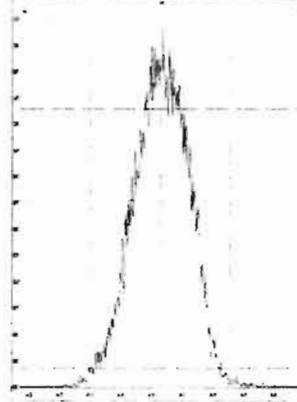
M 430.9728 R 10965



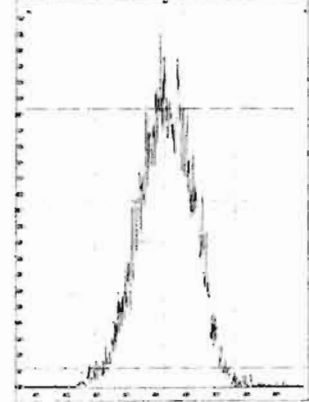
M 442.9728 R 11213



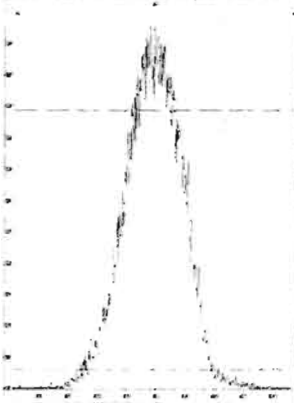
M 454.9728 R 11364



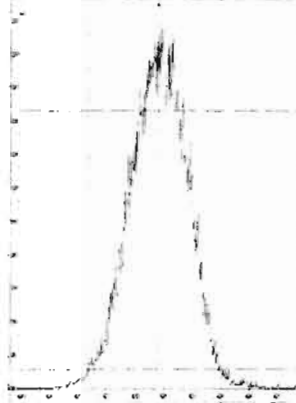
M 466.9728 R 11847



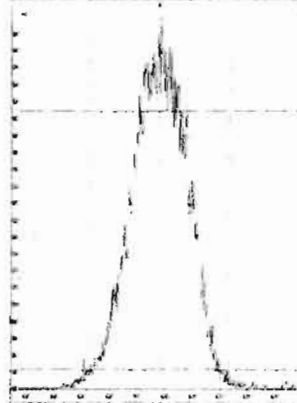
M 480.9696 R 11413



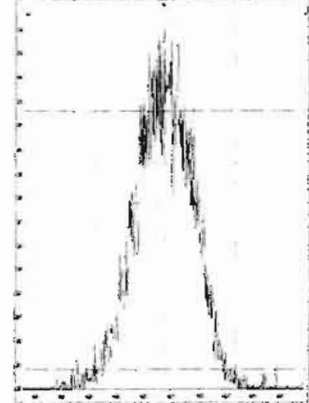
M 492.9696 R 11364



M 504.9696 R 11110



M 516.9697 R 11628



Dataset: Untitled

Last Altered: Thursday, May 07, 2020 3:22:39 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 3:22:57 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200507R2_1, Date: 07-May-2020, Time: 14:32:16, ID: ST200507R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,1,3,6,8-TCDD (First)	21.78
2	1,2,8,9-TCDD (Last)	26.98
3	1,2,4,7,9-PeCDD (First)	28.84
4	1,2,3,8,9-PeCDD (Last)	31.48
5	1,2,4,6,7,9-HxCDD (First)	32.99
6	1,2,3,7,8,9-HxCDD (Last)	34.84
7	1,2,3,4,6,7,9-HpCDD (First)	37.31
8	1,2,3,4,6,7,8-HpCDD (Last)	38.33
9	1,3,6,8-TCDF (First)	19.72
10	1,2,8,9-TCDF (Last)	27.13
11	1,3,4,6,8-PeCDF (First)	27.10
12	1,2,3,8,9-PeCDF (Last)	31.72
13	1,2,3,4,6,8-HxCDF (First)	32.43
14	1,2,3,7,8,9-HxCDF (Last)	35.18
15	1,2,3,4,6,7,8-HpCDF (First)	36.91
16	1,2,3,4,7,8,9-HpCDF (Last)	38.93

Dataset: Untitled

Last Altered: Thursday, May 07, 2020 3:22:39 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 3:22:57 PM Pacific Daylight Time

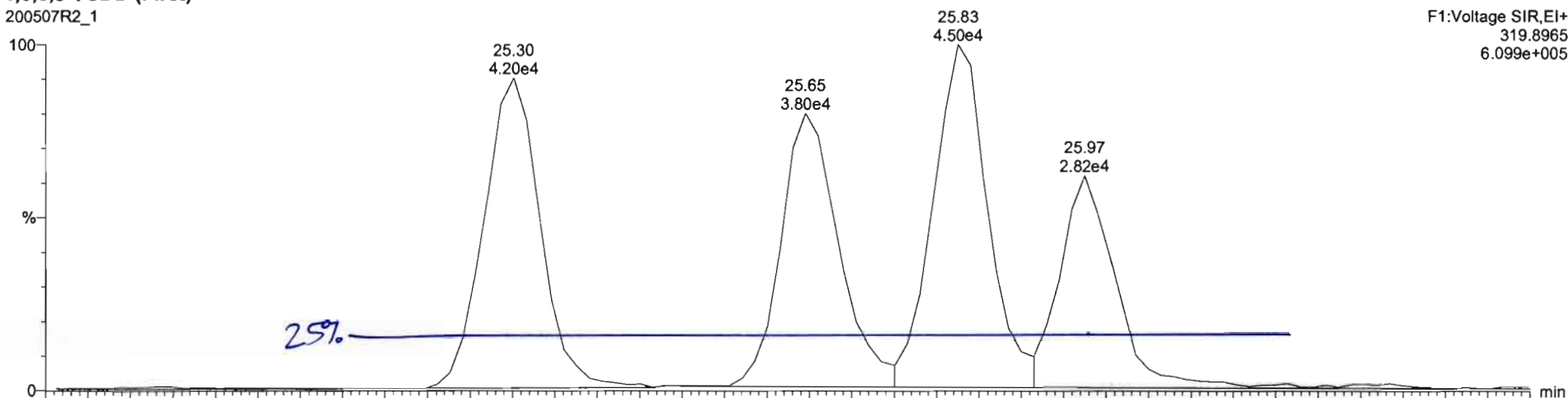
GRB 05/07/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

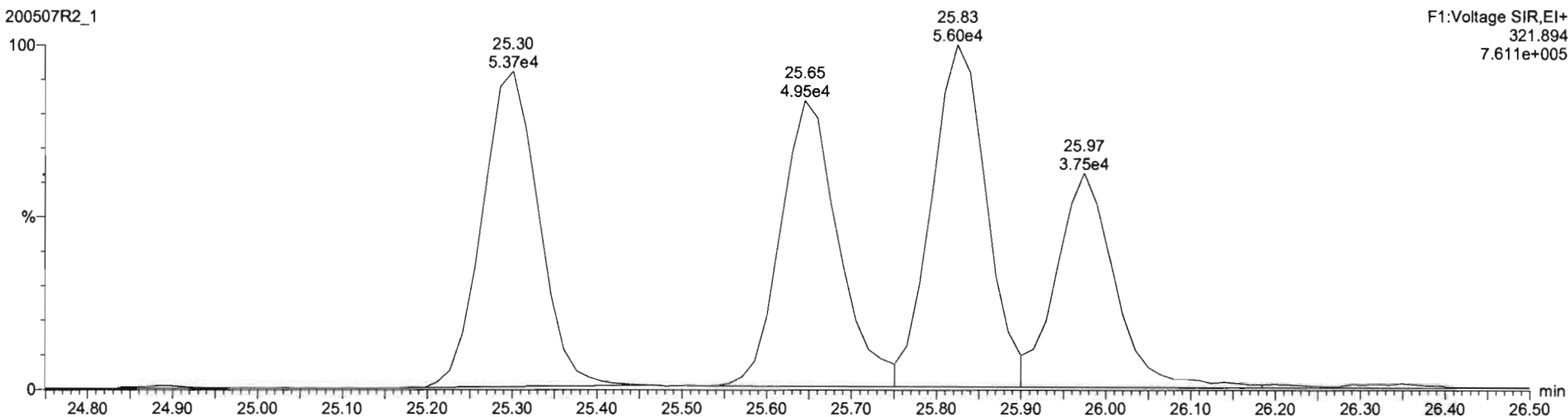
Name: 200507R2_1, Date: 07-May-2020, Time: 14:32:16, ID: ST200507R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200507R2_1



200507R2_1



Dataset: Untitled

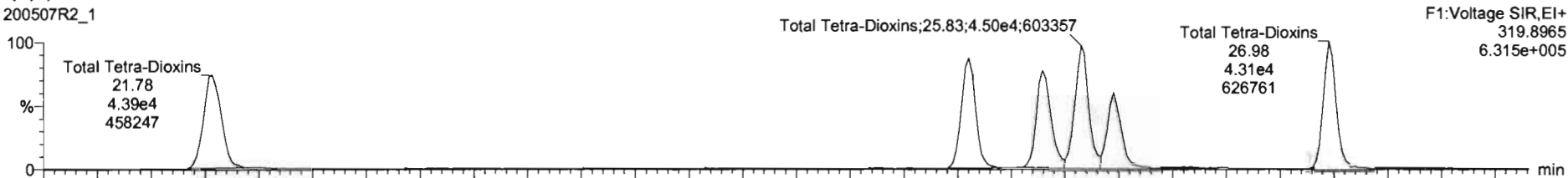
Last Altered: Thursday, May 07, 2020 3:18:32 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 3:19:52 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
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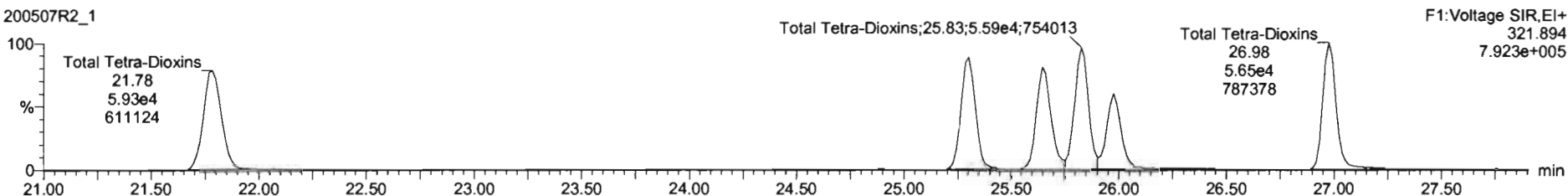
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2,3,7,8-TCDD

200507R2_1

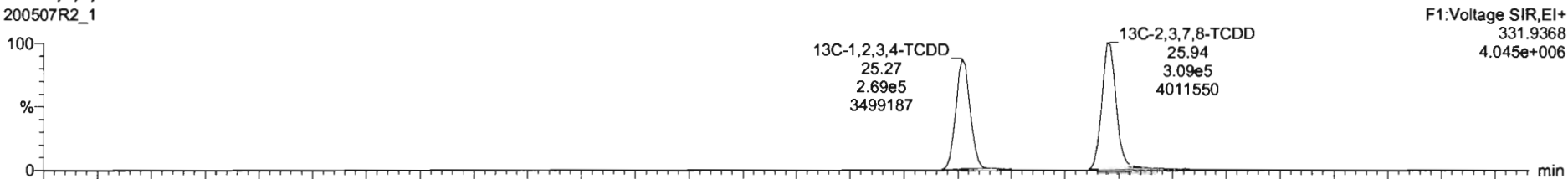


200507R2_1

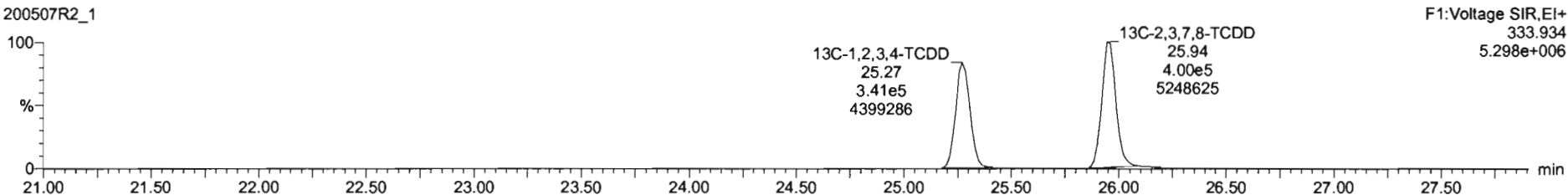


13C-2,3,7,8-TCDD

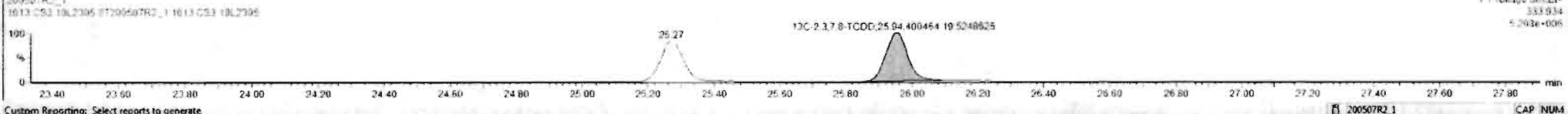
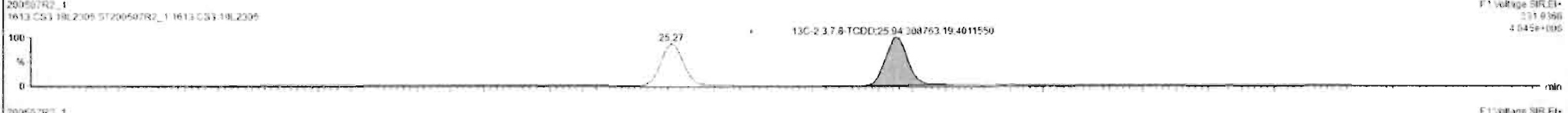
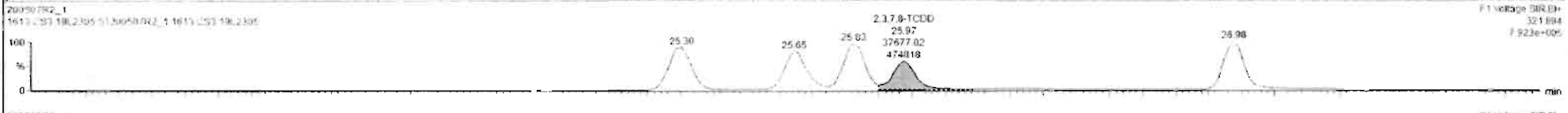
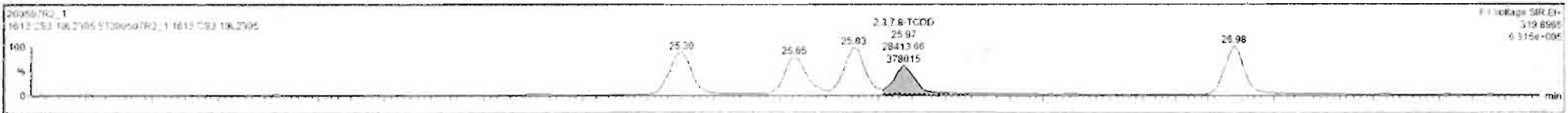
200507R2_1



200507R2_1



#	Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	6.61e4	0.75	NO	0.95	1.000	25.97	1.001	9.84	98.4	0.107	9.84
2	1,2,3,7,8-PeCDD	2.17e5	0.82	NO	0.94	1.000	31.08	1.000	46.4	92.7	0.223	46.4
3	1,2,3,4,7,8-HxCDD	1.83e5	1.25	NO	1.06	1.000	34.46	1.001	47.4	94.8	0.246	47.4
4	1,2,3,6,7,8-HxCDD	1.93e5	1.06	NO	0.91	1.000	34.56	1.000	48.9	97.7	0.250	48.9
5	1,2,3,7,8,9-HxCDD	1.62e5	1.26	NO	0.91	1.000	34.64	1.000	47.5	96.0	0.305	47.5
6	1,2,3,4,6,7,8-HpCDD	1.13e5	1.07	NO	0.90	1.000	36.33	1.000	49.9	99.9	0.473	49.9
7	OCDD	1.78e5	0.88	NO	0.93	1.000	41.32	1.000	98.9	98.9	0.322	98.9
8	2,3,7,8-TCDF	7.03e4	0.75	NO	0.79	1.000	25.03	1.001	9.46	94.6	0.109	9.46
9	1,2,3,7,8-PeCDF	3.36e5	1.58	NO	0.91	1.000	29.77	1.001	47.9	95.5	0.207	47.9
10	2,3,4,7,8-PeCDF	2.27e5	1.57	NO	0.97	1.000	30.76	1.000	46.4	92.8	0.199	46.4
11	1,2,3,4,7,8-HxCDF	2.11e5	1.22	NO	0.88	1.000	33.60	1.000	51.7	103	0.290	51.7
12	1,2,3,6,7,8-HxCDF	2.46e5	1.25	NO	0.87	1.000	33.72	1.000	52.3	105	0.301	52.3
13	2,3,4,6,7,8-HxCDF	2.24e5	1.26	NO	0.92	1.000	34.29	1.000	51.1	102	0.326	51.1
14	1,2,3,7,8,9-HxCDF	1.52e5	1.22	NO	0.86	1.000	36.16	1.000	53.5	107	0.554	53.5
15	1,2,3,4,6,7,8-HpCDF	1.58e5	0.98	NO	0.87	1.000	36.91	1.000	53.3	107	0.435	53.3
16	1,2,3,4,7,8,9-HxCDF	9.03e4	0.99	NO	1.01	1.000	38.93	1.000	53.8	108	0.725	53.8
17	OCDF	1.47e5	0.80	NO	0.80	1.000	41.50	1.000	102	102	0.284	102
18	13C-2,3,7,8-TCDD	7.09e5	0.77	NO	1.16	1.000	25.94	1.027	100	100	0.224	
19	13C-1,2,3,7,8-PeCDD	4.98e5	0.82	NO	0.95	1.000	31.00	1.229	96.4	96.4	0.204	
20	13C-1,2,3,4,7,8-HxCDD	3.23e5	1.29	NO	0.75	1.000	34.44	1.014	97.0	97.0	0.544	
21	13C-1,2,3,6,7,8-HxCDD	4.33e5	1.28	NO	0.96	1.000	34.55	1.017	101	101	0.424	



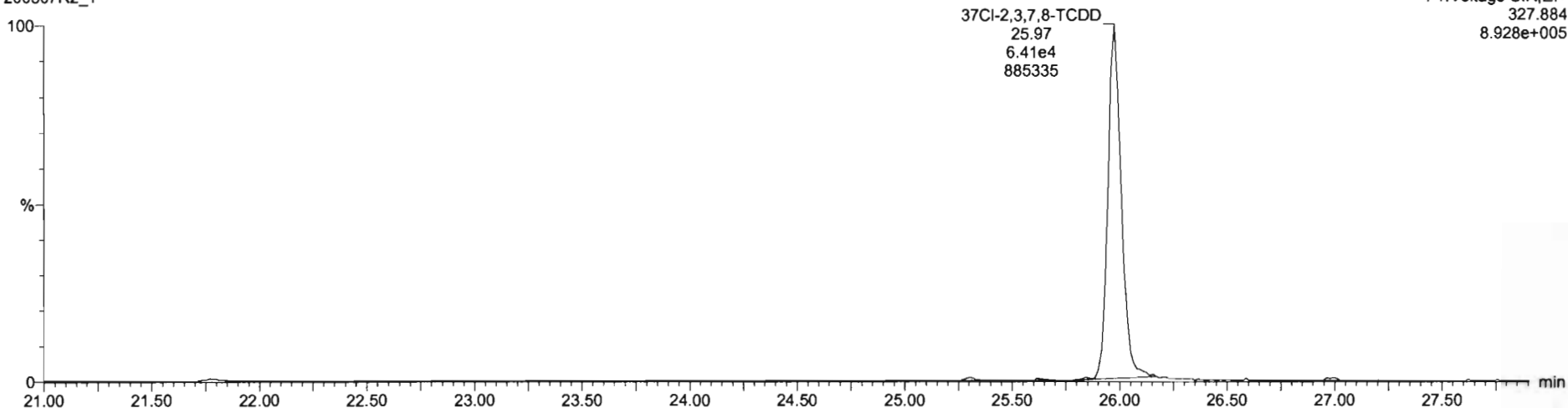
Dataset: Untitled

Last Altered: Thursday, May 07, 2020 3:18:32 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 3:19:52 PM Pacific Daylight Time

Name: 200507R2_1, Date: 07-May-2020, Time: 14:32:16, ID: ST200507R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

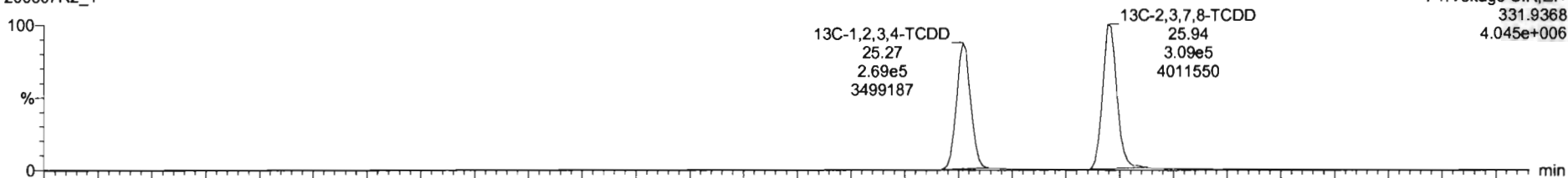
37Cl-2,3,7,8-TCDD

200507R2_1

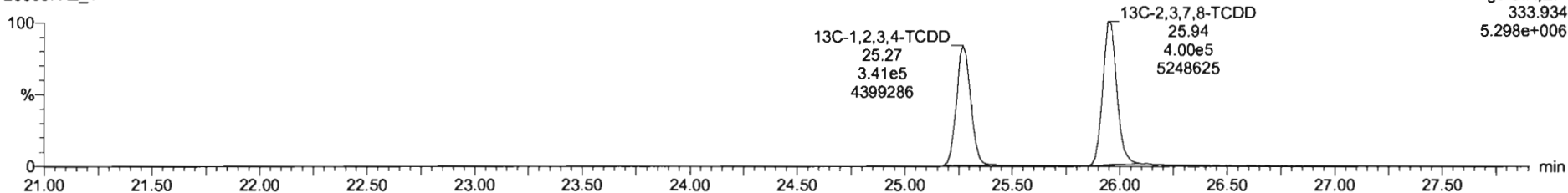


13C-1,2,3,4-TCDD

200507R2_1



200507R2_1



Dataset: Untitled

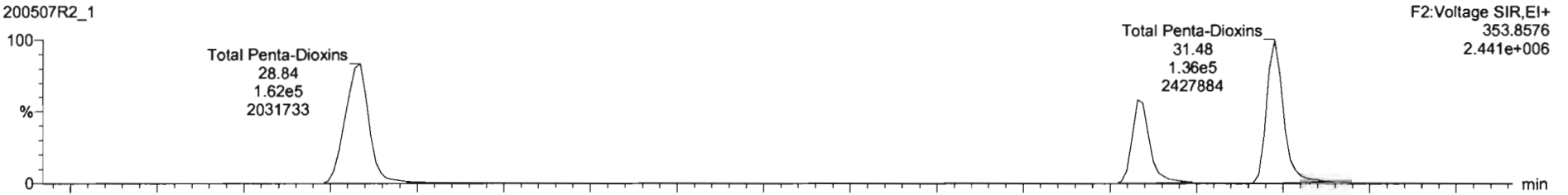
Last Altered: Thursday, May 07, 2020 3:18:32 PM Pacific Daylight Time

Printed: Thursday, May 07, 2020 3:19:52 PM Pacific Daylight Time

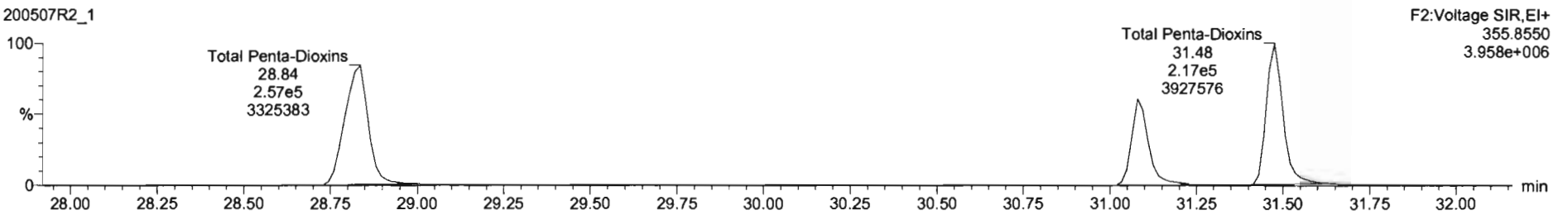
Name: 200507R2_1, Date: 07-May-2020, Time: 14:32:16, ID: ST200507R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200507R2_1

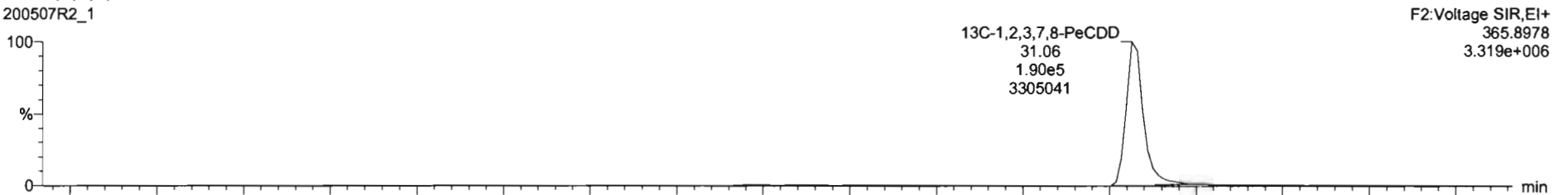


200507R2_1

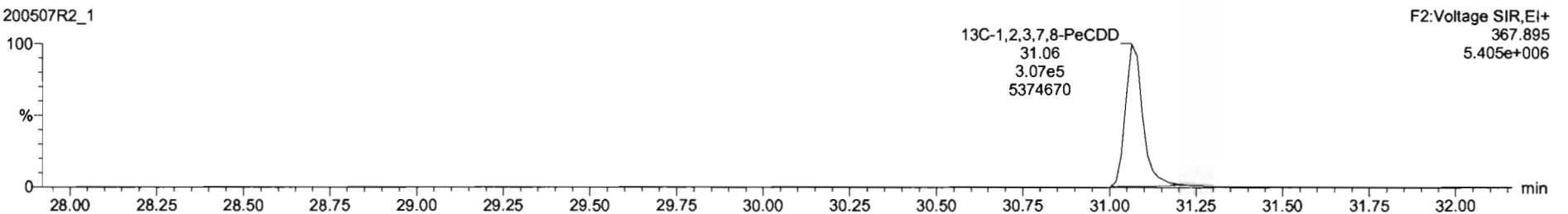


13C-1,2,3,7,8-PeCDD

200507R2_1



200507R2_1



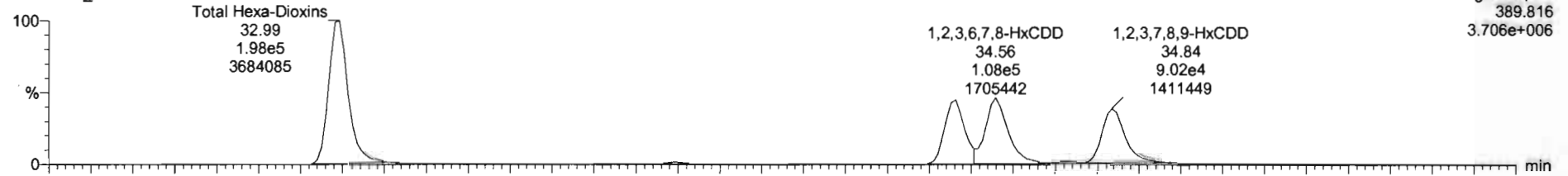
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Printed: Thursday, May 07, 2020 3:19:52 PM Pacific Daylight Time

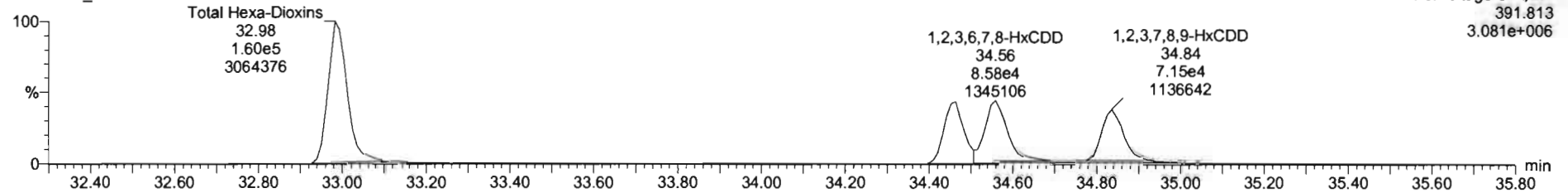
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1,2,3,4,7,8-HxCDD

200507R2_1

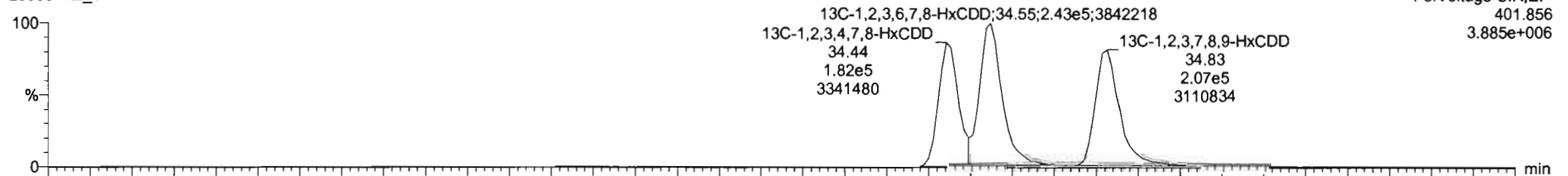


200507R2_1

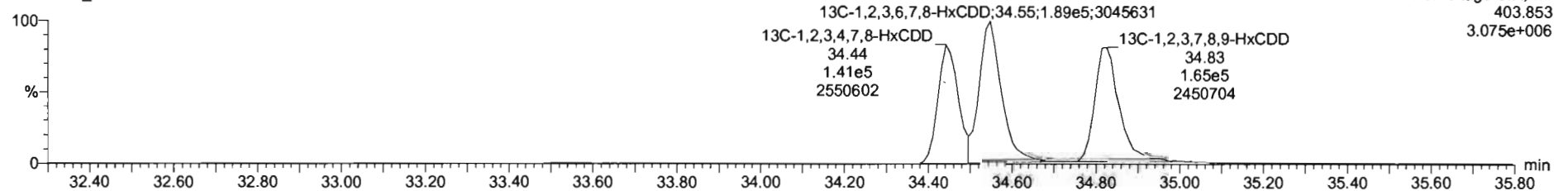


13C-1,2,3,4,7,8-HxCDD

200507R2_1



200507R2_1



Dataset: Untitled

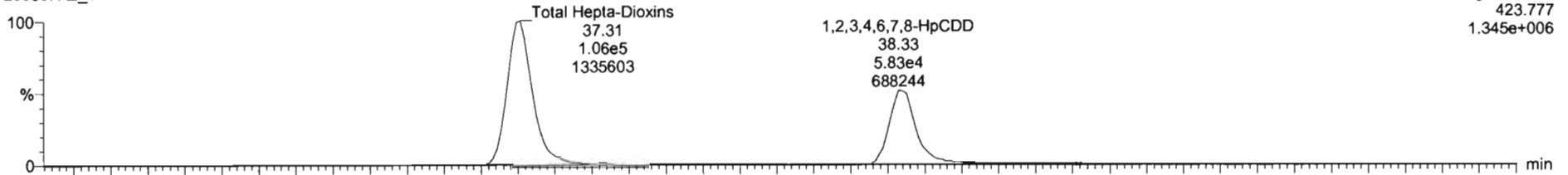
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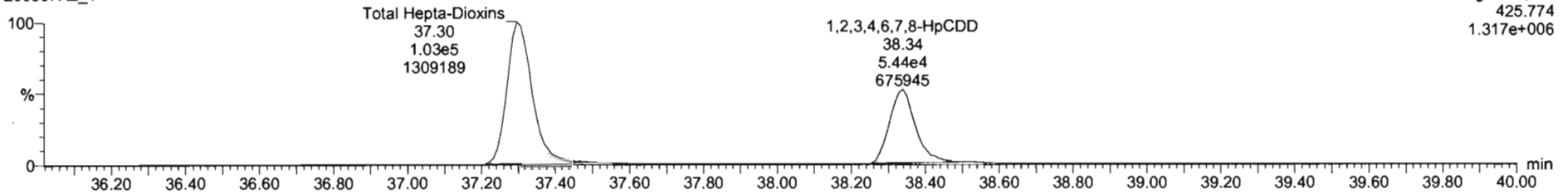
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1,2,3,4,6,7,8-HpCDD

200507R2_1

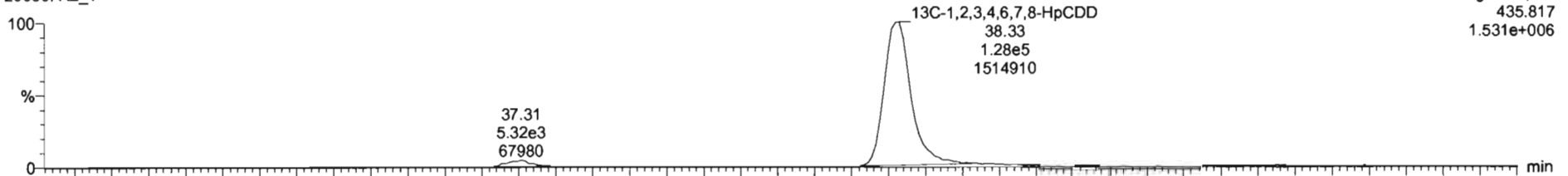


200507R2_1

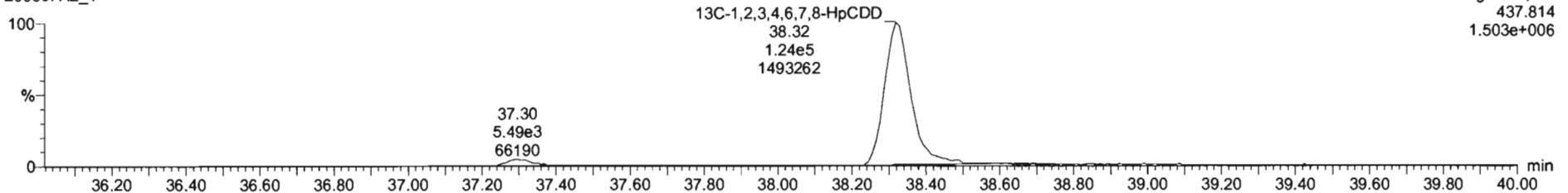


13C-1,2,3,4,6,7,8-HpCDD

200507R2_1



200507R2_1



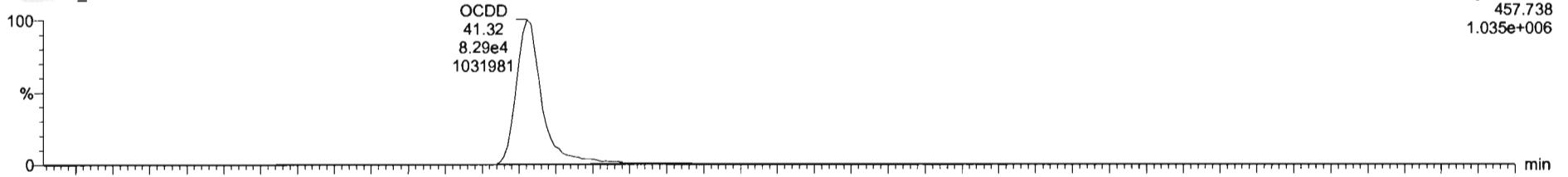
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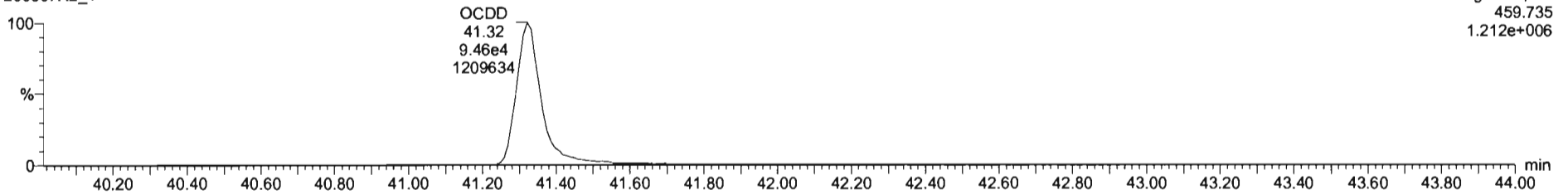
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OCDD

200507R2_1

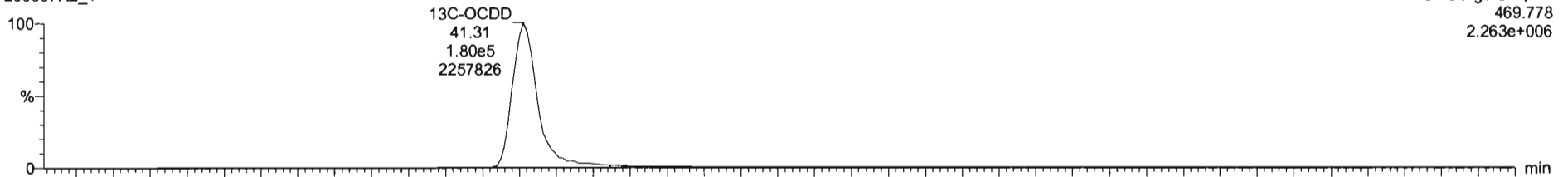


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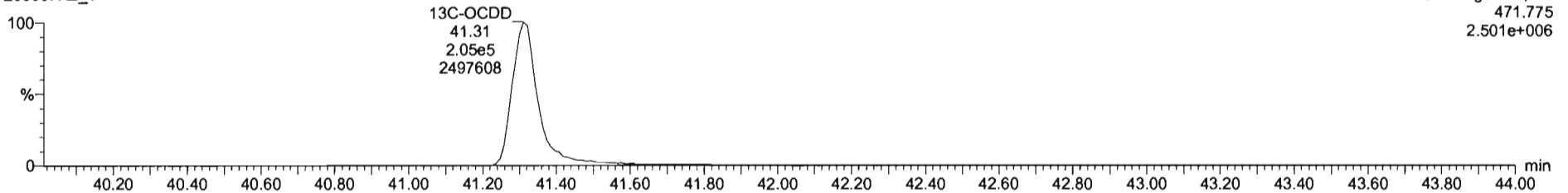


13C-OCDD

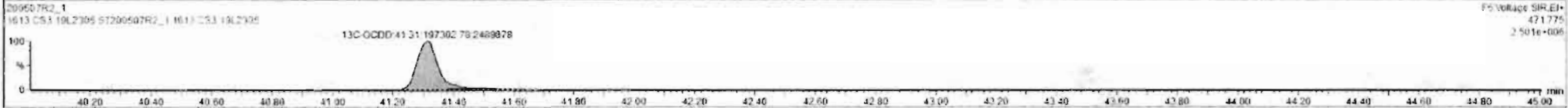
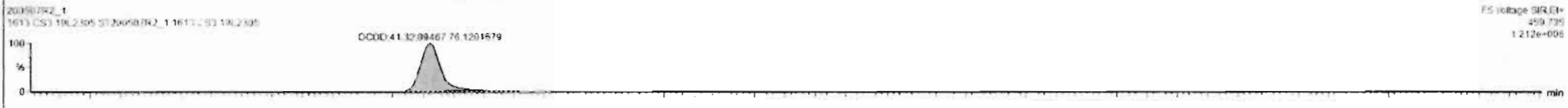
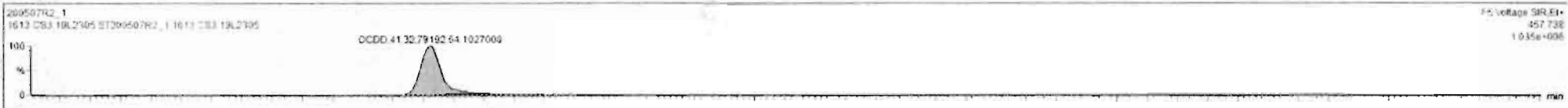
200507R2_1



200507R2_1



Name	Resp	RA	nBy	RRF	VolVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	6.81e4	0.75	NO	0.35	1.000	25.97	1.001	9.84	98.4	0.127	0.84
2 1,2,3,7,8-PeCDD	2.11e4	0.62	NO	0.54	1.000	31.06	1.000	46.4	52.7	0.223	48.4
3 1,2,3,4,7,8-HxCDD	1.63e4	1.25	NO	1.06	1.000	34.46	1.001	47.4	54.2	0.246	47.4
4 1,2,3,6,7,8-HxCDD	1.93e4	1.26	NO	0.99	1.000	34.56	1.000	48.9	57.7	0.250	48.9
5 1,2,3,7,8,9-HxCDD	1.52e4	1.26	NO	0.91	1.000	34.84	1.000	47.5	56.2	0.306	47.5
6 1,2,3,4,6,7,8-HpCDD	1.13e4	1.07	NO	0.99	1.000	38.33	1.000	49.9	59.9	0.473	49.9
7 OCDD	1.69e5	0.89	NO	0.93	1.000	41.32	1.000	97.3	97.3	0.325	97.3
8 2,3,7,8-TCDF	7.03e4	0.75	NO	0.79	1.000	25.03	1.001	9.46	94.6	0.126	9.46
9 1,2,3,7,8-PeCDF	3.39e4	1.58	NO	0.91	1.000	29.77	1.001	47.9	55.9	0.327	47.9
10 1,2,3,4,7,8-HxCDF	0.27e4	1.57	NO	0.97	1.000	30.76	1.000	46.4	52.8	0.199	46.4
11 1,2,3,4,7,8-HxCDF	2.11e4	1.22	NO	0.88	1.000	33.60	1.000	51.7	103	0.280	51.7
12 1,2,3,6,7,8-HxCDF	2.46e4	1.25	NO	0.67	1.000	33.72	1.000	52.3	105	0.381	52.3
13 2,3,4,6,7,8-HxCDF	2.24e4	1.20	NO	0.92	1.000	34.29	1.000	51.1	102	0.328	51.1
14 1,2,3,7,8,9-HxCDF	1.52e4	1.22	NO	0.66	1.000	35.18	1.000	53.5	107	0.594	53.5
15 1,2,3,4,6,7,8-HpCDF	1.58e4	0.98	NO	0.67	1.000	36.91	1.000	53.3	107	0.435	53.3
16 1,2,3,4,7,8,9-HpCDF	5.03e4	0.99	NO	1.01	1.000	38.93	1.000	53.0	100	0.725	53.0
17 OCDF	1.47e4	0.96	NO	0.80	1.000	41.58	1.000	102	102	0.384	102
18 13C-2,3,7,8-TCDD	7.99e4	0.77	NO	1.16	1.000	25.94	1.027	100	100	0.224	
19 13C-1,2,3,7,8-PeCDD	4.98e4	0.62	NO	0.85	1.000	31.06	1.225	96.4	96.4	0.264	
20 13C-1,2,3,4,7,8-HxCDD	3.25e4	1.29	NO	0.75	1.000	34.44	1.014	97.0	97.0	0.544	
21 13C-1,2,3,6,7,8-HxCDD	4.33e4	1.28	NO	0.96	1.000	34.55	1.017	101	101	0.424	

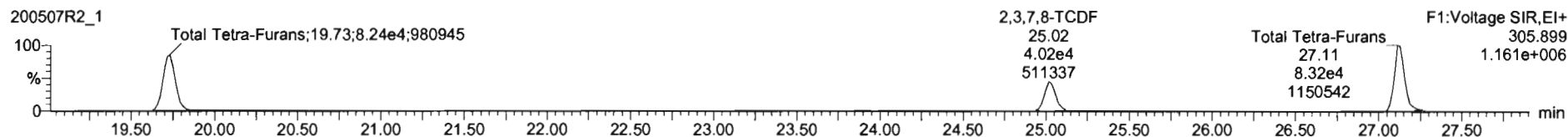


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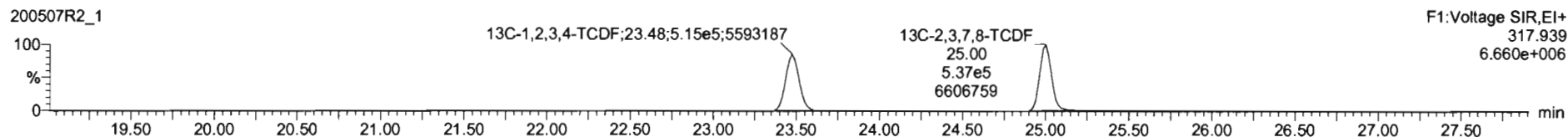
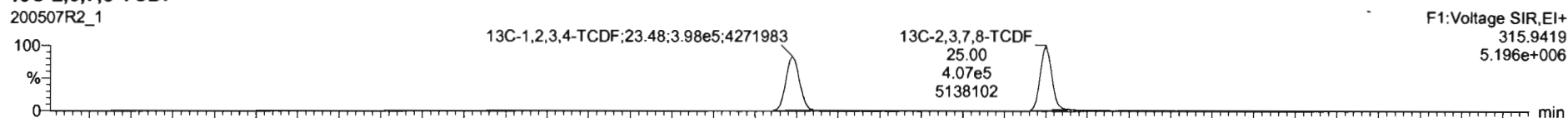
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Printed: Thursday, May 07, 2020 3:19:52 PM Pacific Daylight Time

Name: 200507R2_1, Date: 07-May-2020, Time: 14:32:16, ID: ST200507R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

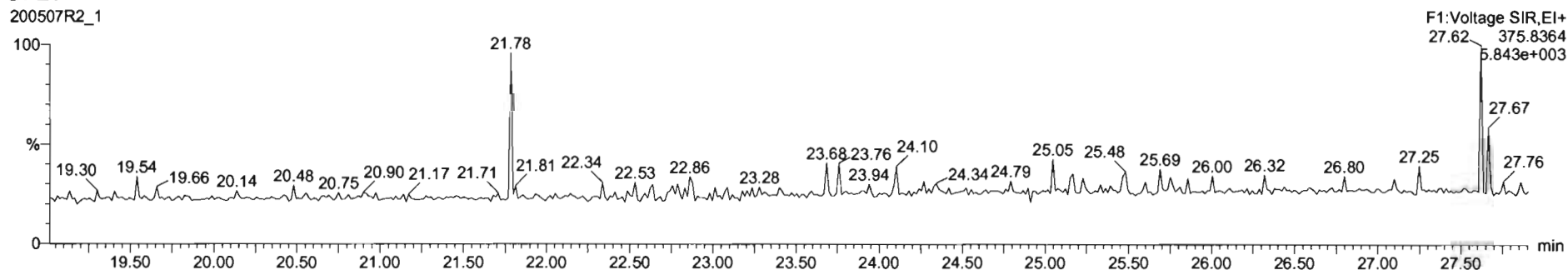
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

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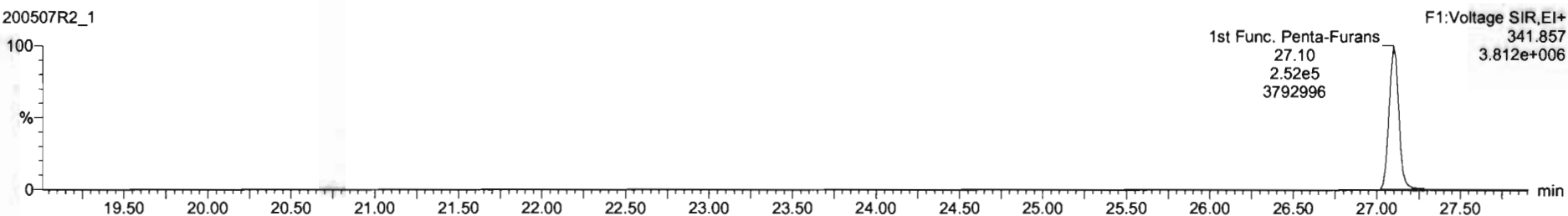
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1st Func. Penta-Furans

200507R2_1

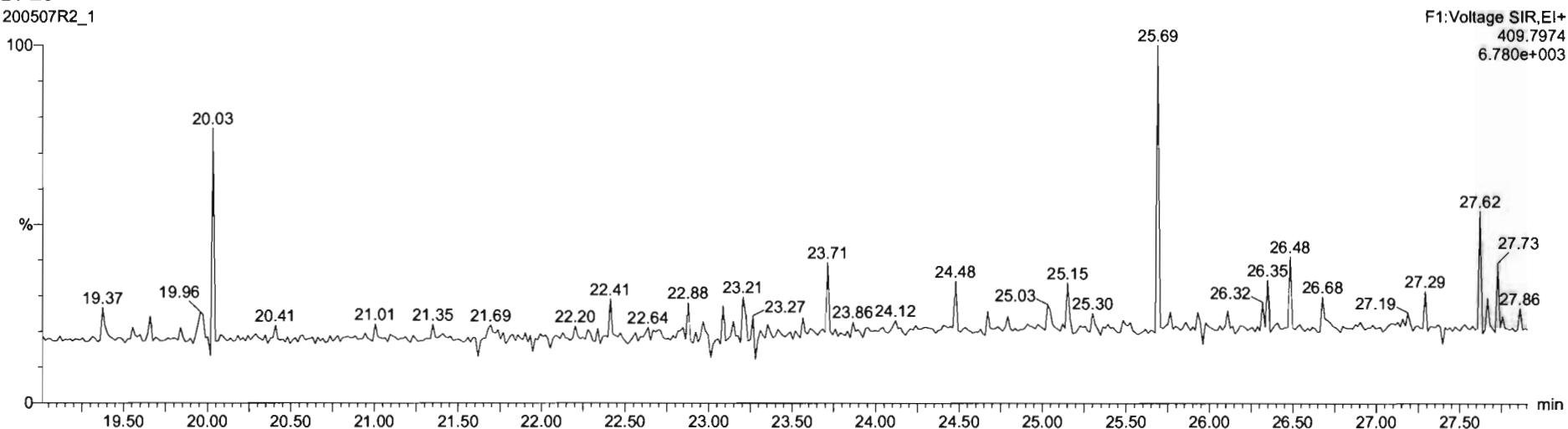


200507R2_1



DPE6

200507R2_1



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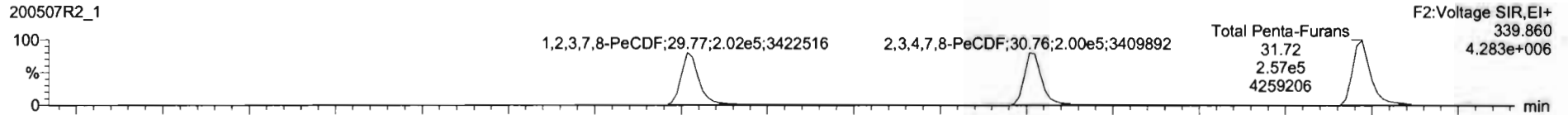
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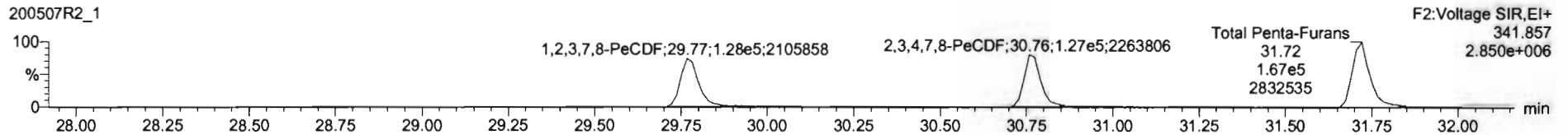
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1,2,3,7,8-PeCDF

200507R2_1

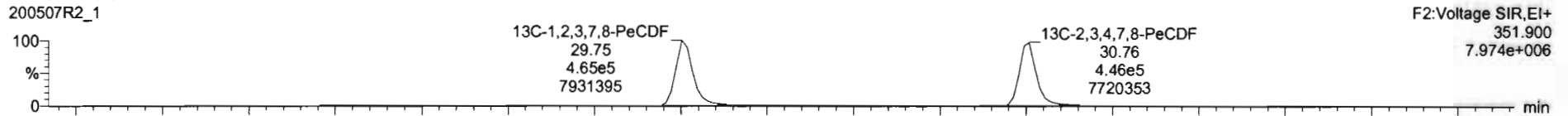


200507R2_1

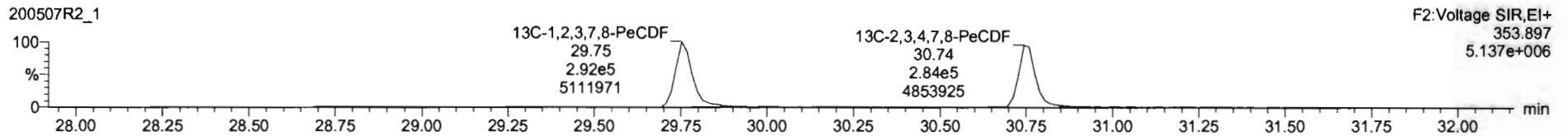


13C-1,2,3,7,8-PeCDF

200507R2_1

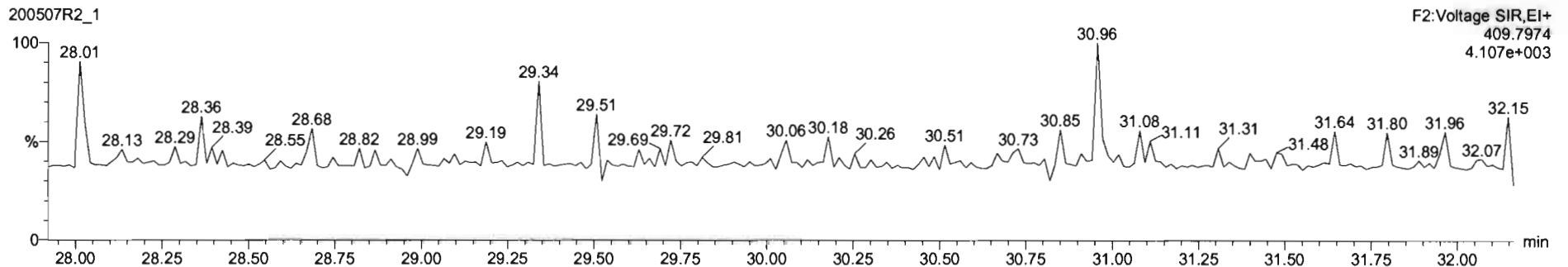


200507R2_1



DPE2

200507R2_1

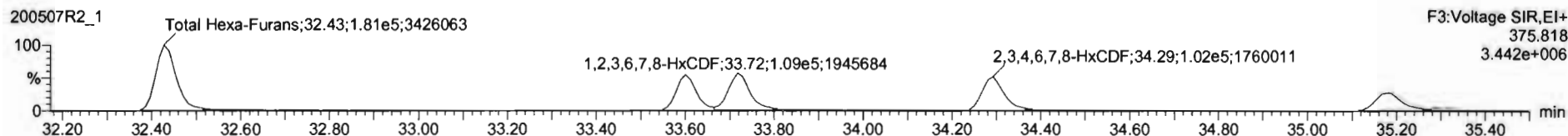
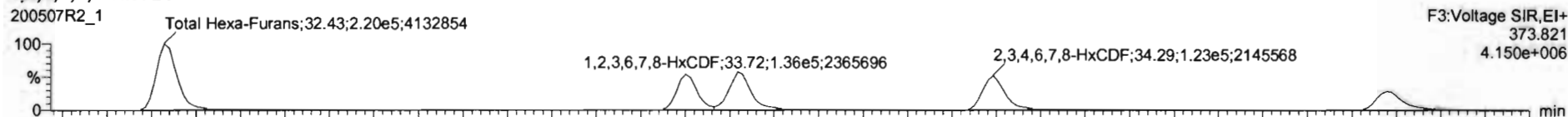


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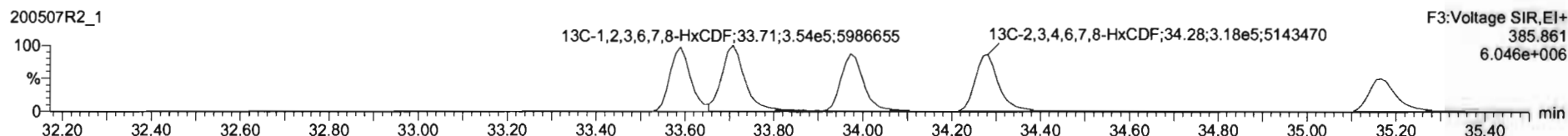
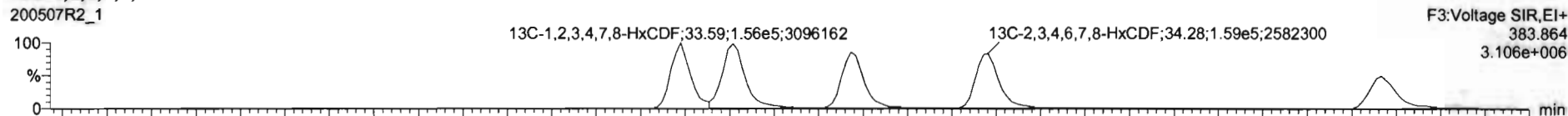
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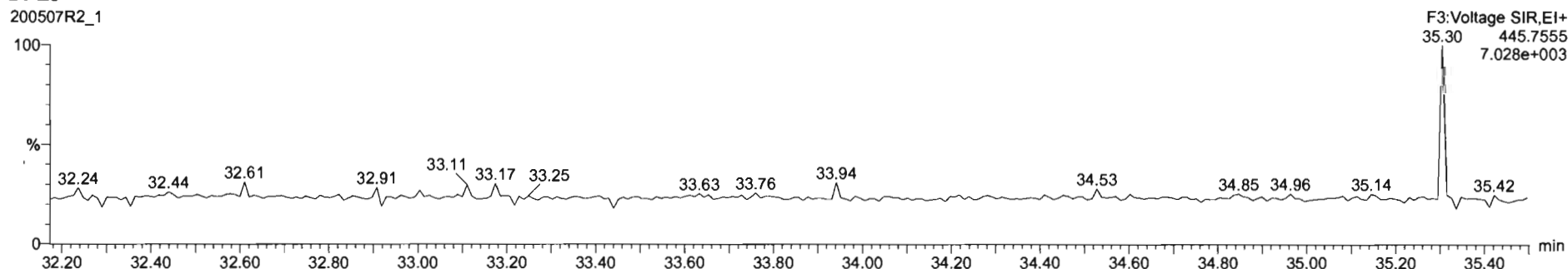
1,2,3,4,7,8-HxCDF



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



DPE3



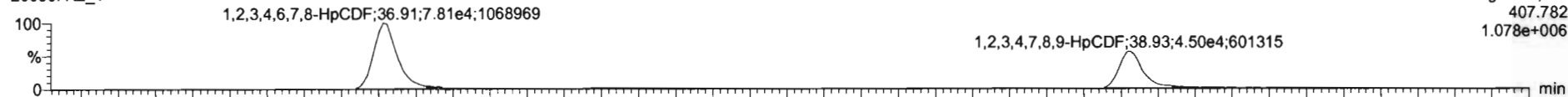
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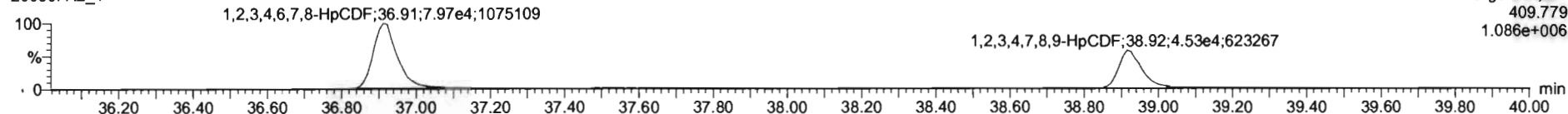
1,2,3,4,6,7,8-HpCDF

200507R2_1



F4:Voltage SIR,EI+
407.782
1.078e+006

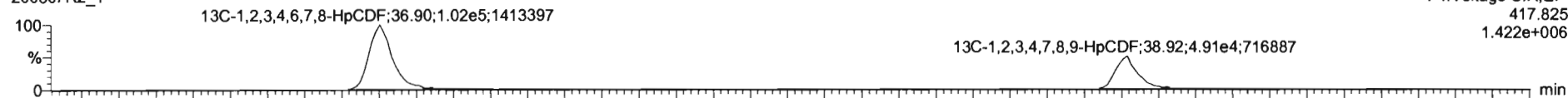
200507R2_1



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1.086e+006

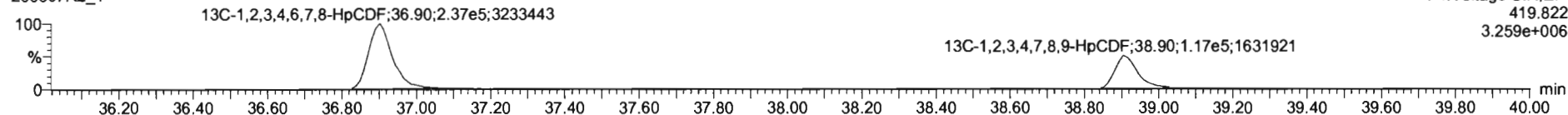
13C-1,2,3,4,6,7,8-HpCDF

200507R2_1



F4:Voltage SIR,EI+
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1.422e+006

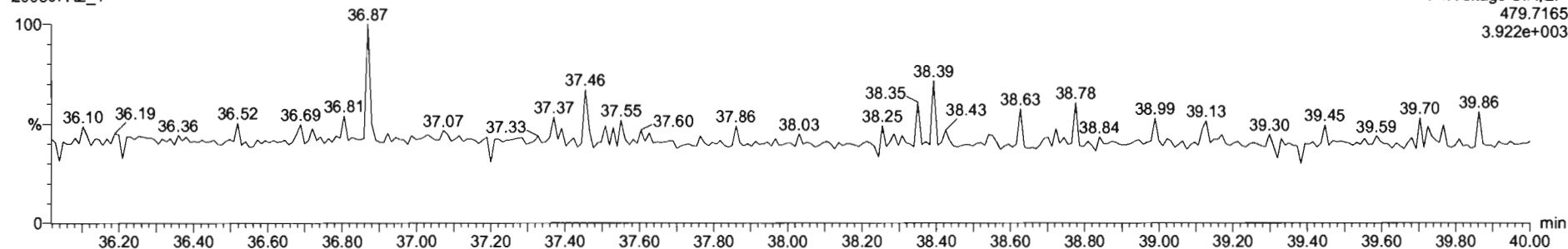
200507R2_1



F4:Voltage SIR,EI+
419.822
3.259e+006

DPE4

200507R2_1



F4:Voltage SIR,EI+
479.7165
3.922e+003

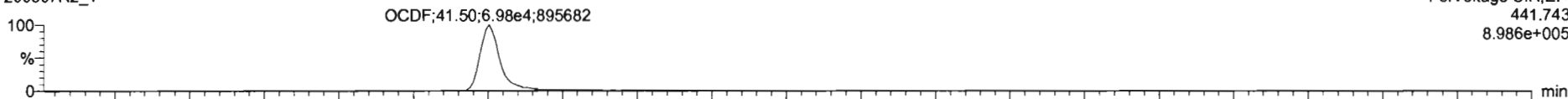
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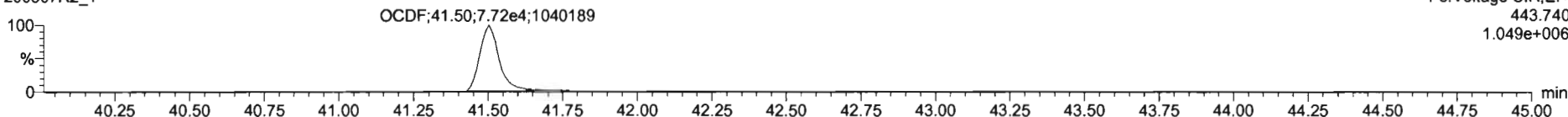
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OCDF

200507R2_1

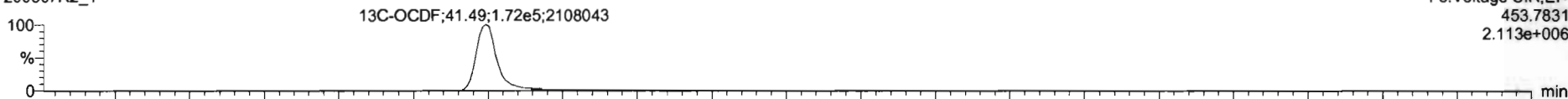


200507R2_1

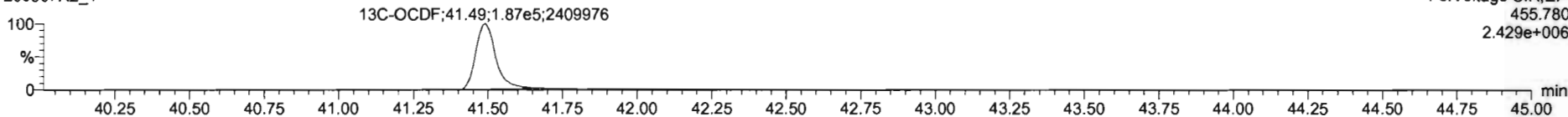


13C-OCDF

200507R2_1

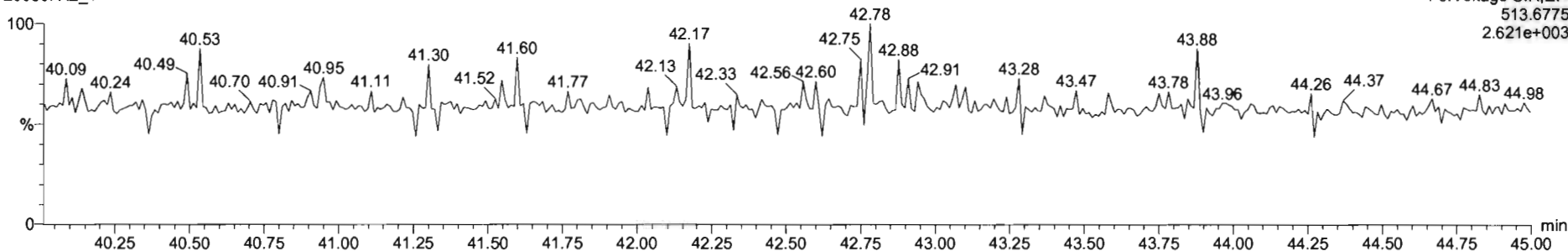


200507R2_1

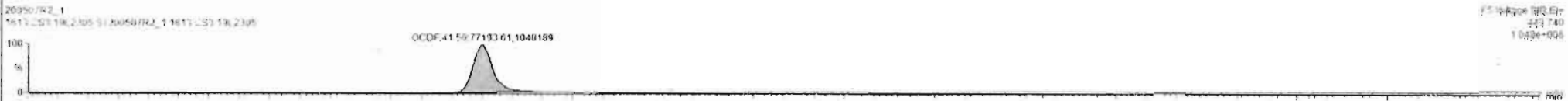


DPE5

200507R2_1



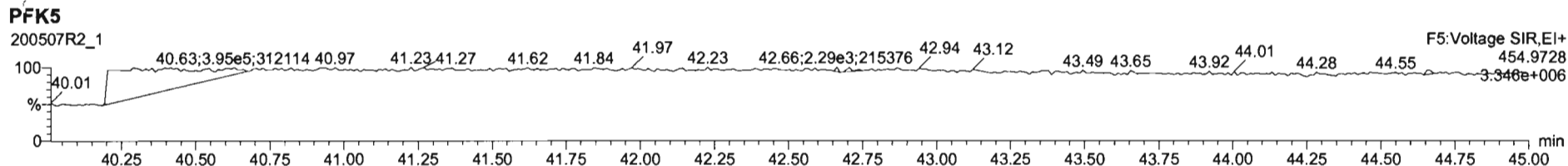
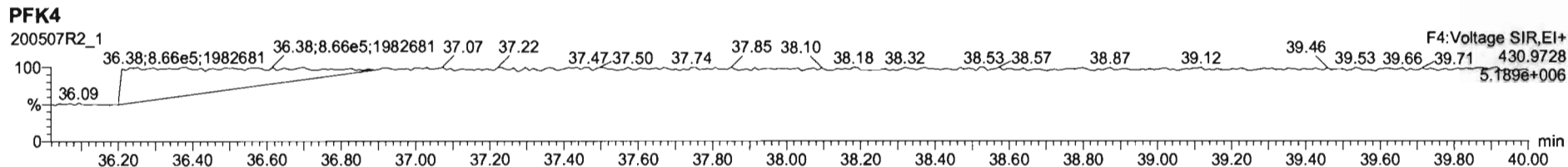
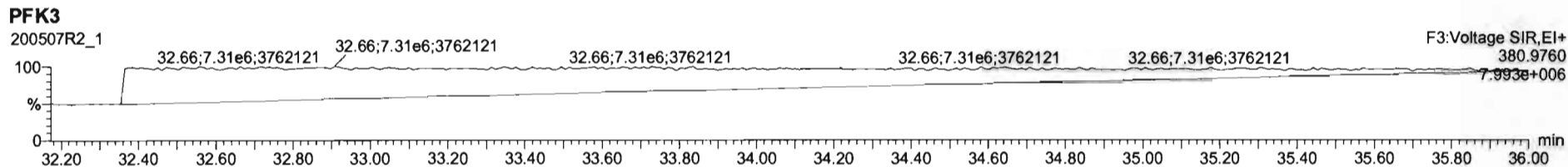
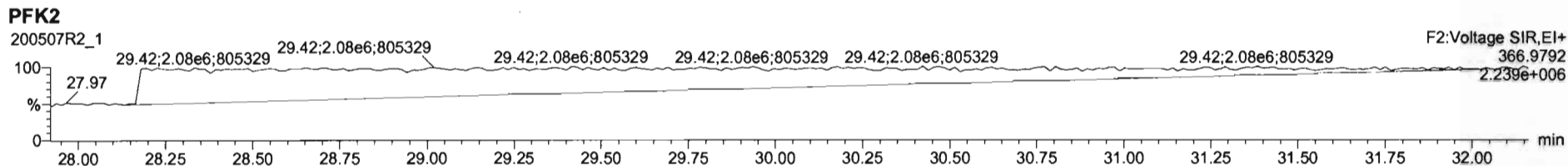
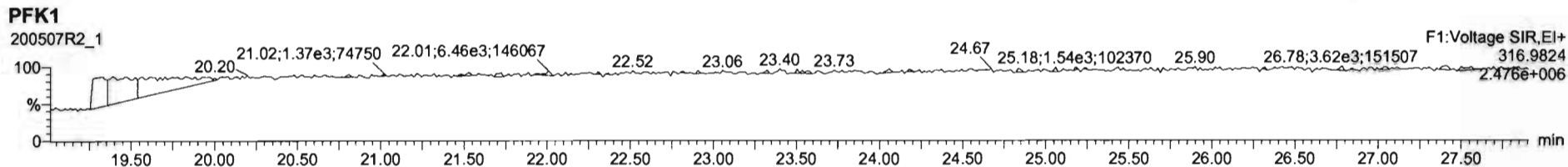
#	Name	Resp	RA	aly	RRF	VolVol	RT	RRT	Clac	%Rec	DL	EMPC
1	2,3,7,8-TCDD	6.61e4	0.75	NO	0.95	1.900	25.97	1.001	9.84	98.4	0.197	9.84
2	1,2,3,7,8-PeCDD	2.17e5	0.82	NO	0.94	1.900	31.66	1.000	46.4	92.7	0.223	46.4
3	1,2,3,4,7,8-HxCDD	1.63e5	1.25	NO	1.06	1.900	34.46	1.001	47.4	94.8	0.246	47.4
4	1,2,3,6,7,8-HxCDD	1.95e5	1.26	NO	0.91	1.900	34.96	1.000	48.9	97.7	0.250	48.9
5	1,2,3,7,8,9-HxCDD	1.52e5	1.26	NO	0.91	1.900	34.94	1.000	47.5	95.9	0.260	47.5
6	1,2,3,4,6,7,8-HpCDD	1.13e5	1.07	NO	0.90	1.900	38.33	1.000	49.9	99.9	0.473	49.9
7	OCDD	1.69e5	0.89	NO	0.93	1.900	41.32	1.000	97.3	97.3	0.325	97.3
8	2,3,7,8-TCDF	7.03e4	0.75	NO	0.79	1.900	25.03	1.001	9.46	94.6	0.109	9.46
9	1,2,3,7,8-PeCDF	3.79e5	1.58	NO	0.91	1.900	29.77	1.001	47.9	95.9	0.207	47.9
10	1,2,3,4,7,8-HxCDF	3.27e5	1.57	NO	0.97	1.900	30.76	1.000	46.4	92.8	0.195	46.4
11	1,2,3,4,7,8-HxCDF	2.11e5	1.22	NO	0.88	1.900	33.60	1.000	51.7	103	0.290	51.7
12	1,2,3,6,7,8-HxCDF	2.46e5	1.25	NO	0.97	1.900	33.72	1.000	52.3	105	0.301	52.3
13	2,3,4,6,7,8-HxCDF	2.24e5	1.26	NO	0.92	1.900	34.29	1.000	51.1	102	0.328	51.1
14	1,2,3,7,8,9-HxCDF	1.52e5	1.22	NO	0.86	1.900	35.18	1.000	53.9	107	0.354	53.9
15	1,2,3,4,6,7,8-HpCDF	1.56e5	0.98	NO	0.97	1.900	36.91	1.000	53.3	107	0.436	53.3
16	1,2,3,4,7,8,9-HpCDF	9.03e4	0.99	NO	1.01	1.900	38.93	1.000	53.8	108	0.725	53.8
17	OCDF	1.44e5	0.87	NO	0.80	1.900	41.50	1.000	103	103	0.278	103
18	13C-2,3,7,8-TCDD	7.09e5	0.77	NO	1.16	1.900	25.94	1.027	100	100	0.224	
19	13C-1,2,3,7,8-PeCDD	4.89e5	0.82	NO	0.85	1.900	31.06	1.225	96.4	96.4	0.204	
20	13C-1,2,3,4,7,8-HxCDD	3.23e5	1.29	NO	0.75	1.900	34.44	1.914	97.0	97.0	0.544	
21	13C-1,2,3,6,7,8-HxCDD	4.33e5	1.26	NO	0.96	1.900	34.55	1.017	101	101	0.424	



Dataset: Untitled

Last Altered: Thursday, May 07, 2020 3:18:32 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 3:19:52 PM Pacific Daylight Time

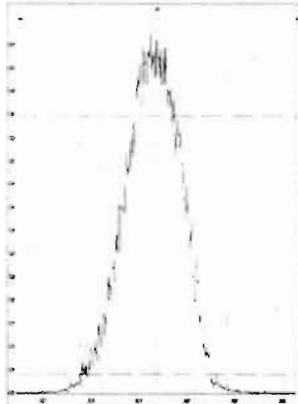
Name: 200507R2_1, Date: 07-May-2020, Time: 14:32:16, ID: ST200507R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



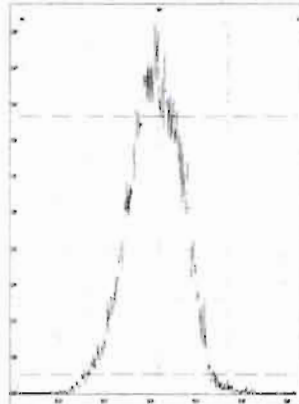
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, May 08, 2020 07:13:54 Pacific Daylight Time

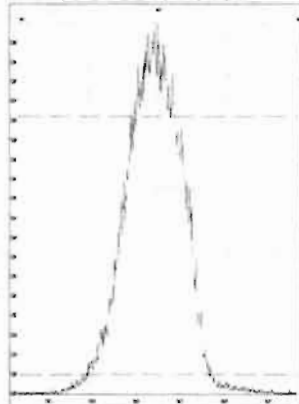
M 292.9824 R 11414



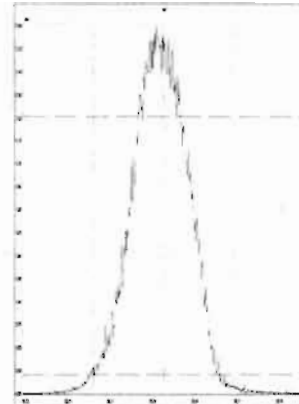
M 304.9824 R 11213



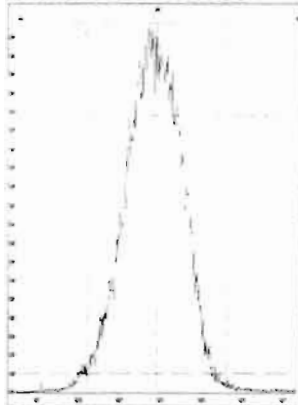
M 318.9792 R 11568



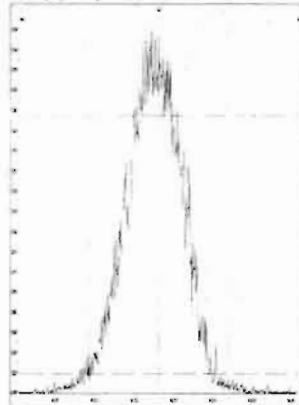
M 330.9792 R 10778



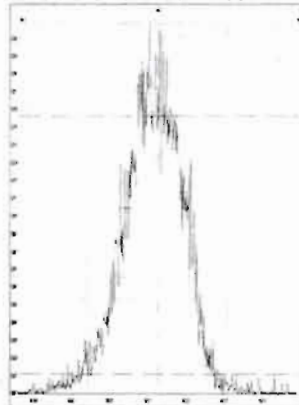
M 342.9792 R 10684



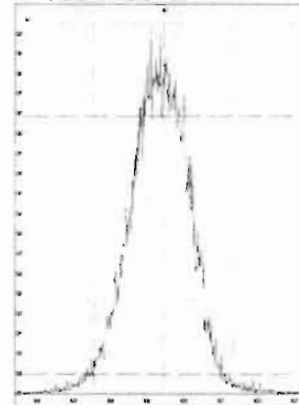
M 354.9792 R 11577



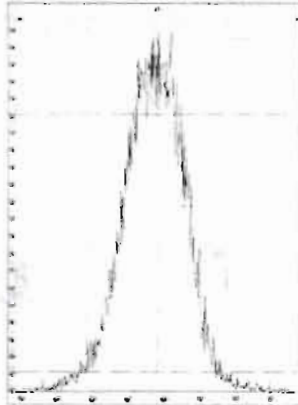
M 366.9792 R 11464



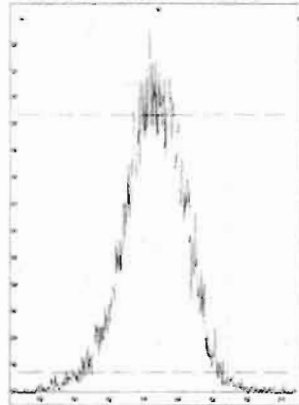
M 380.9760 R 11017



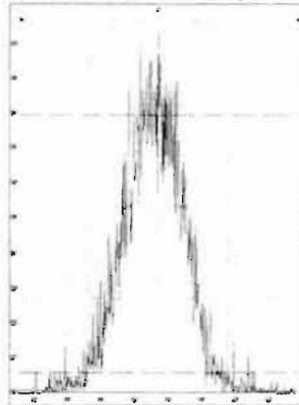
M 392.9760 R 10289



M 404.9760 R 11210



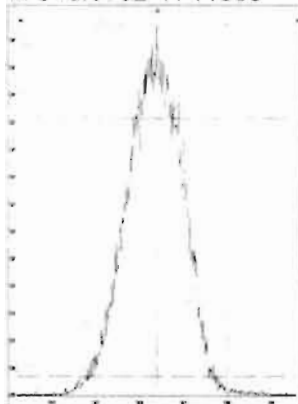
M 416.9760 R 12498



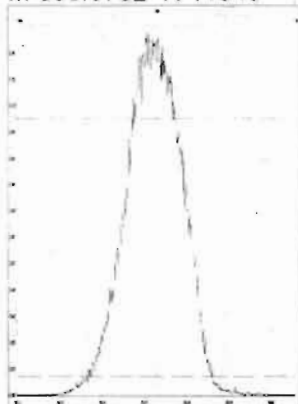
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, May 08, 2020 07:14:41 Pacific Daylight Time

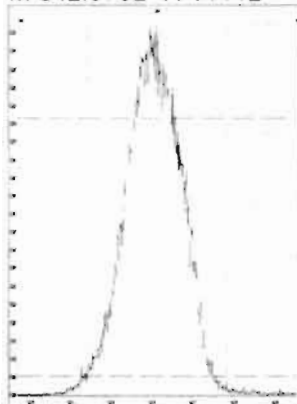
M 318.9792 R 11683



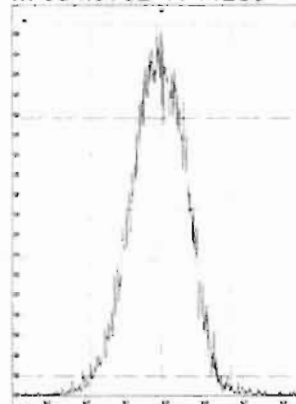
M 330.9792 R 11519



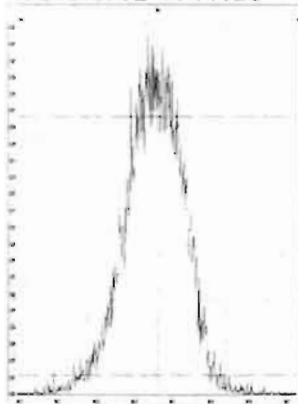
M 342.9792 R 11112



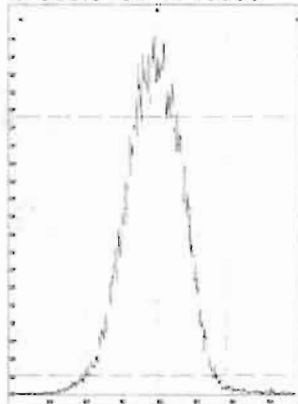
M 354.9792 R 11265



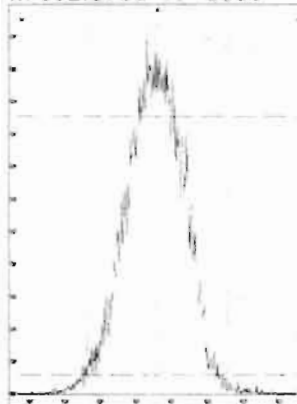
M 366.9792 R 11629



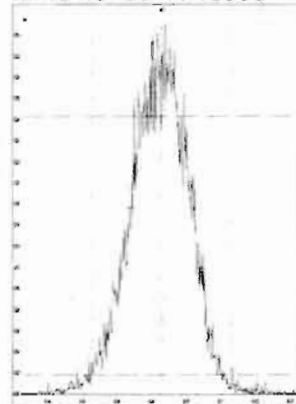
M 380.9760 R 10869



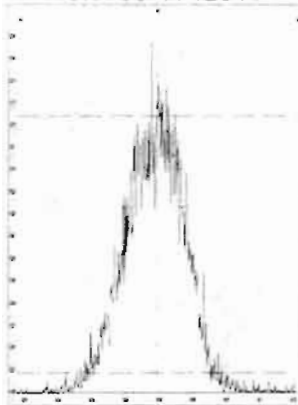
M 392.9760 R 10963



M 404.9760 R 10593



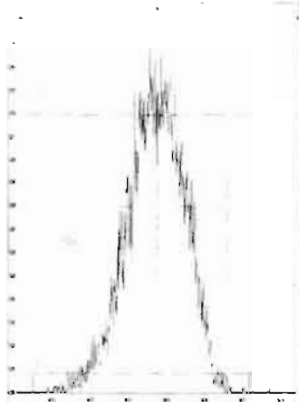
M 416.9760 R 12018



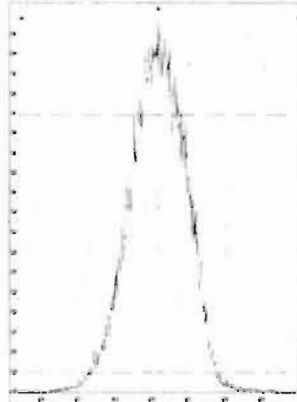
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, May 08, 2020 07:14:58 Pacific Daylight Time

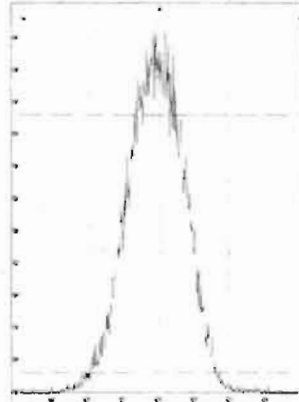
M 366.9792 R 11113



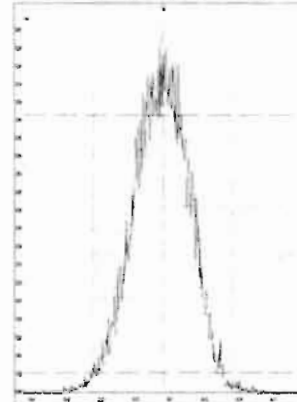
M 380.9760 R 11161



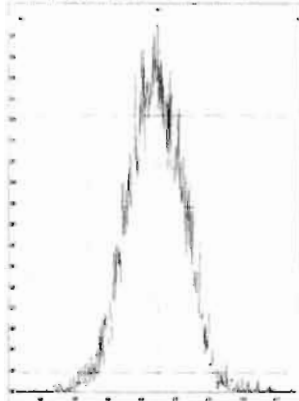
M 392.9760 R 11310



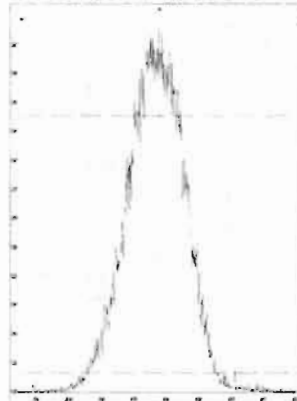
M 404.9760 R 11738



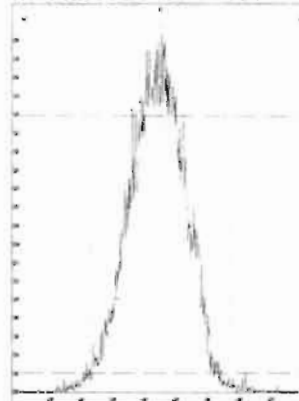
M 416.9760 R 11961



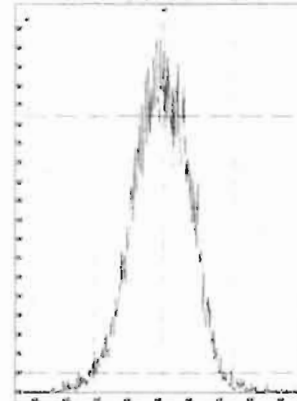
M 430.9728 R 10640



M 442.9728 R 11468



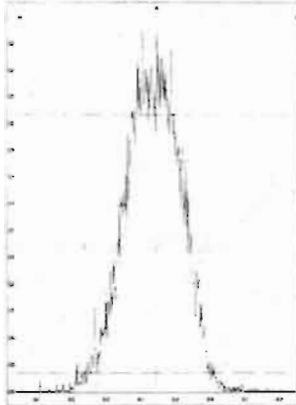
M 454.9728 R 10967



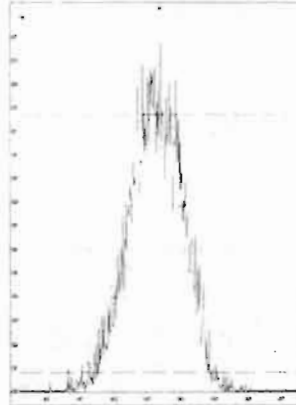
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, May 08, 2020 07:15:30 Pacific Daylight Time

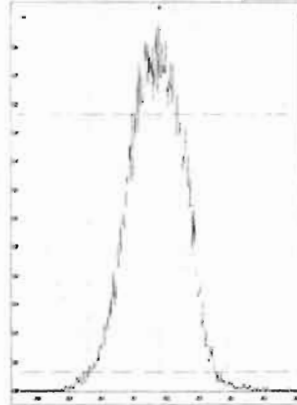
M 404.9760 R 11413



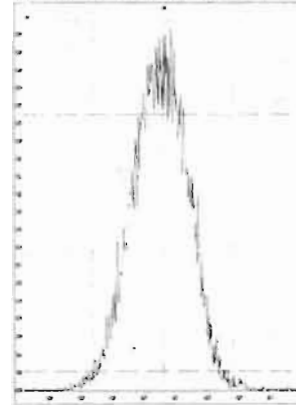
M 416.9760 R 12019



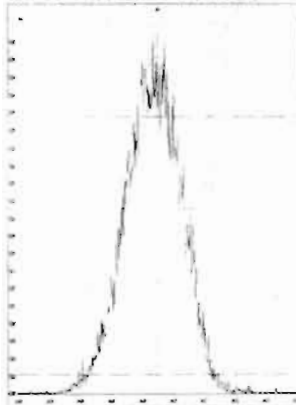
M 430.9728 R 10967



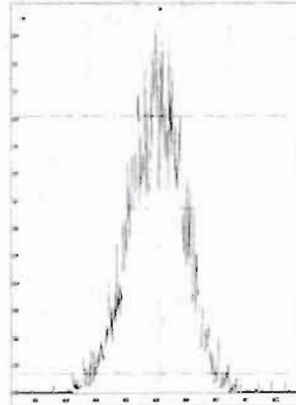
M 442.9728 R 11521



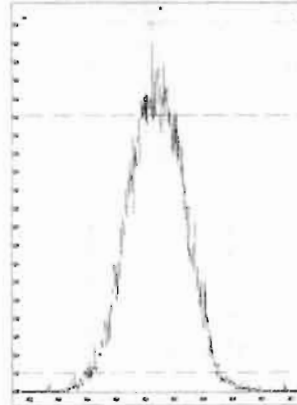
M 454.9728 R 11160



M 466.9728 R 11794



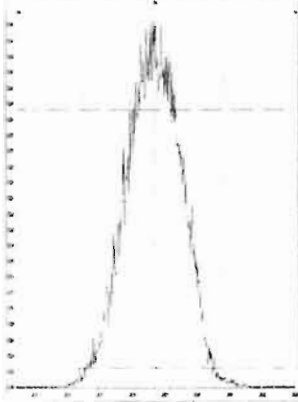
M 480.9696 R 10869



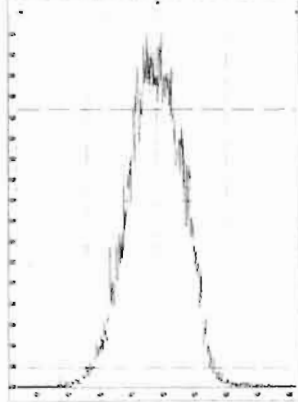
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, May 08, 2020 07:15:55 Pacific Daylight Time

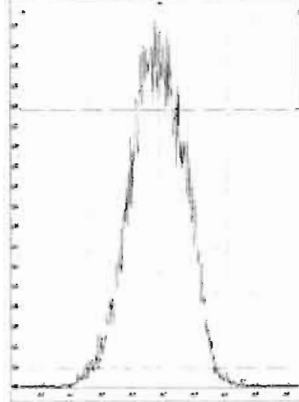
M 430.9728 R 11628



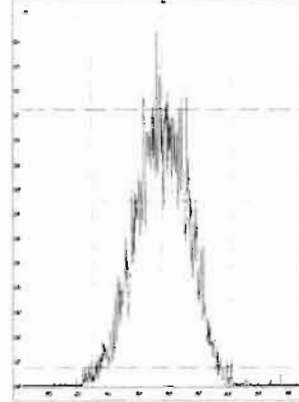
M 442.9728 R 11519



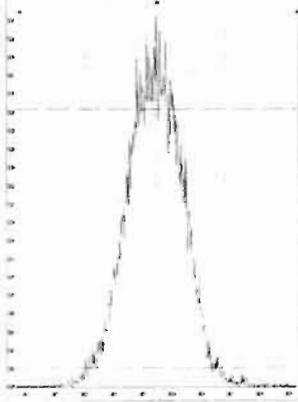
M 454.9728 R 11738



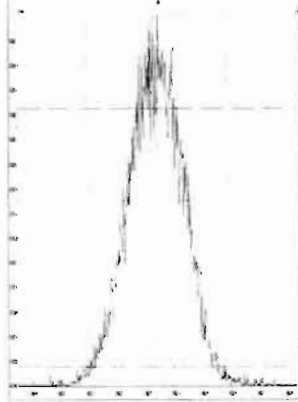
M 466.9728 R 11904



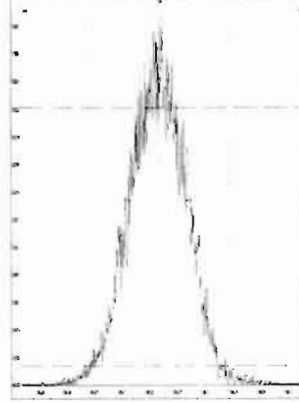
M 480.9696 R 11414



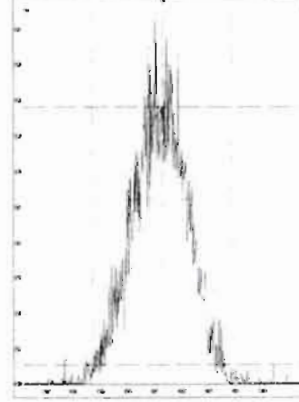
M 492.9696 R 11013



M 504.9696 R 11362



M 516.9697 R 12316



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200508R1-1

Reviewed By: CT 05/08/2020
Initials & Date

End Calibration ID: NA

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

Mass resolution ≥

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

Intergrated peaks display correctly?

GC Break <20%

NA

8280 CS1 End Standard:

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

Comments:

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

Dataset: U:\VG12.PRO\Results\200508R1\200508R1-1.qld

Last Altered: Friday, May 08, 2020 9:01:37 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 9:01:54 AM Pacific Daylight Time

GPB 05/08/2020

C 05/08/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200508R1_1, Date: 08-May-2020, Time: 08:06:47, ID: ST200508R1_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	1.04e5	1.13e6	0.76	NO	0.947	26.01	25.99	NO	1.001	1.001	9.7587	97.6	NO
2	2 1,2,3,7,8-PeCDD	3.49e5	8.01e5	0.62	NO	0.942	31.09	31.08	NO	1.001	1.000	46.238	92.5	NO
3	3 1,2,3,4,7,8-HxCDD	2.38e5	4.80e5	1.22	NO	1.06	34.46	34.46	NO	1.000	1.000	46.562	93.1	NO
4	4 1,2,3,6,7,8-HxCDD	2.84e5	6.52e5	1.25	NO	0.915	34.55	34.56	NO	1.000	1.000	47.578	95.2	NO
5	5 1,2,3,7,8,9-HxCDD	2.46e5	5.71e5	1.25	NO	0.915	34.84	34.84	NO	1.000	1.000	47.137	94.3	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.70e5	3.95e5	1.02	NO	0.898	38.33	38.34	NO	1.000	1.001	47.757	95.5	NO
7	7 OCDD	2.51e5	5.62e5	0.87	NO	0.933	41.31	41.32	NO	1.000	1.000	95.657	95.7	NO
8	8 2,3,7,8-TCDF	1.04e5	1.41e6	0.74	NO	0.787	25.06	25.05	NO	1.001	1.001	9.3962	94.0	NO
9	9 1,2,3,7,8-PeCDF	4.83e5	1.11e6	1.59	NO	0.910	29.77	29.77	NO	1.001	1.001	47.996	96.0	NO
10	10 2,3,4,7,8-PeCDF	4.73e5	1.04e6	1.53	NO	0.966	30.77	30.77	NO	1.001	1.001	46.894	93.8	NO
11	11 1,2,3,4,7,8-HxCDF	3.01e5	6.52e5	1.22	NO	0.878	33.59	33.60	NO	1.000	1.000	52.546	105	NO
12	12 1,2,3,6,7,8-HxCDF	3.46e5	7.90e5	1.24	NO	0.874	33.72	33.73	NO	1.000	1.001	50.155	100	NO
13	13 2,3,4,6,7,8-HxCDF	3.22e5	6.76e5	1.20	NO	0.922	34.32	34.29	NO	1.001	1.000	51.714	103	NO
14	14 1,2,3,7,8,9-HxCDF	2.13e5	4.85e5	1.23	NO	0.864	35.17	35.18	NO	1.000	1.000	50.902	102	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.21e5	4.82e5	1.00	NO	0.871	36.94	36.91	NO	1.001	1.000	52.528	105	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.15e5	2.32e5	1.00	NO	1.01	38.90	38.93	NO	1.000	1.001	49.127	98.3	NO
17	17 OCDF	1.85e5	4.78e5	0.87	NO	0.802	41.49	41.50	NO	1.000	1.000	96.602	96.6	NO
18	18 13C-2,3,7,8-TCDD	1.13e6	9.33e5	0.75	NO	1.16	25.97	25.97	NO	1.026	1.027	104.41	104	NO
19	19 13C-1,2,3,7,8-PeCDD	8.01e5	9.33e5	0.62	NO	0.847	31.05	31.06	NO	1.227	1.228	101.27	101	NO
20	20 13C-1,2,3,4,7,8-HxCDD	4.80e5	6.24e5	1.26	NO	0.750	34.45	34.45	NO	1.014	1.014	102.64	103	NO
21	21 13C-1,2,3,6,7,8-HxCDD	6.52e5	6.24e5	1.27	NO	0.963	34.56	34.55	NO	1.017	1.017	108.61	109	NO
22	22 13C-1,2,3,7,8,9-HxCDD	5.71e5	6.24e5	1.23	NO	0.838	34.83	34.83	NO	1.025	1.025	109.35	109	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.95e5	6.24e5	1.03	NO	0.641	38.32	38.32	NO	1.128	1.128	98.830	98.8	NO
24	24 13C-OCDD	5.62e5	6.24e5	0.89	NO	0.586	41.31	41.31	NO	1.216	1.216	153.69	76.8	NO
25	25 13C-2,3,7,8-TCDF	1.41e6	1.33e6	0.76	NO	1.03	25.03	25.03	NO	0.989	0.989	102.35	102	NO
26	26 13C-1,2,3,7,8-PeCDF	1.11e6	1.33e6	1.58	NO	0.845	29.74	29.75	NO	1.176	1.176	98.168	98.2	NO
27	27 13C-2,3,4,7,8-PeCDF	1.04e6	1.33e6	1.64	NO	0.814	30.73	30.74	NO	1.215	1.215	96.288	96.3	NO
28	28 13C-1,2,3,4,7,8-HxCDF	6.52e5	6.24e5	0.50	NO	1.00	33.59	33.59	NO	0.989	0.989	104.00	104	NO
29	29 13C-1,2,3,6,7,8-HxCDF	7.90e5	6.24e5	0.50	NO	1.14	33.71	33.71	NO	0.992	0.992	111.47	111	NO
30	30 13C-2,3,4,6,7,8-HxCDF	6.76e5	6.24e5	0.51	NO	1.02	34.28	34.28	NO	1.009	1.009	105.99	106	NO
31	31 13C-1,2,3,7,8,9-HxCDF	4.85e5	6.24e5	0.51	NO	0.845	35.17	35.17	NO	1.035	1.035	92.041	92.0	NO

Dataset: U:\VG12.PRO\Results\200508R1\200508R1-1.qld

Last Altered: Friday, May 08, 2020 9:01:37 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 9:01:54 AM Pacific Daylight Time

Name: 200508R1_1, Date: 08-May-2020, Time: 08:06:47, ID: ST200508R1_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	4.82e5	6.24e5	0.43	NO	0.771	36.90	36.90	NO	1.086	1.086	100.26	100	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.32e5	6.24e5	0.42	NO	0.482	38.91	38.90	NO	1.145	1.145	77.041	77.0	NO
34	34 13C-OCDF	4.78e5	6.24e5	0.88	NO	0.669	41.48	41.49	NO	1.221	1.221	114.58	57.3	NO
35	35 37Cl-2,3,7,8-TCDD	9.81e4	9.33e5			1.10	26.00	25.99	NO	1.028	1.027	9.5669	95.7	NO
36	36 13C-1,2,3,4-TCDD	9.33e5	9.33e5	0.81	NO	1.00	25.35	25.30	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.33e6	1.33e6	0.78	NO	1.00	23.56	23.52	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	6.24e5	6.24e5	0.51	NO	1.00	34.00	33.97	NO	1.000	1.000	100.00	100	YES <i>OK</i>

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Friday, May 08, 2020 1:37:34 PM Pacific Daylight Time

Printed: Friday, May 08, 2020 1:37:46 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

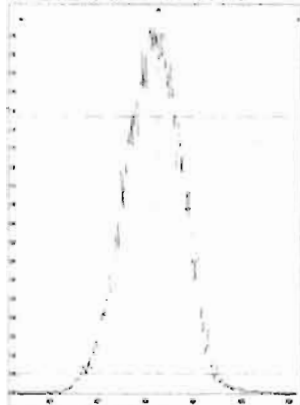
Compound name: 2,3,7,8-TCDD

Acq.No	Name	ID	Acq.Date	Acq.Time
1	200508R1_1	ST200508R1_1 1613 CS3 19L2305	08-May-20	08:06:47
2	200508R1_2	B0D0332-BS1 OPR 10	08-May-20	08:54:49
3	200508R1_3	SOLVENT BLANK	08-May-20	09:43:09
4	200508R1_4	B0D0332-BLK1 Method Blank 10	08-May-20	10:29:21
5	200508R1_5	2000953-07 PDI-165SC-A-06-07-200426 12.14	08-May-20	11:16:17
6	200508R1_6	2000953-08 PDI-165SC-A-07-08-200426 12.02	08-May-20	12:02:30
7	200508R1_7	SOLVENT BLANK	08-May-20	12:49:36

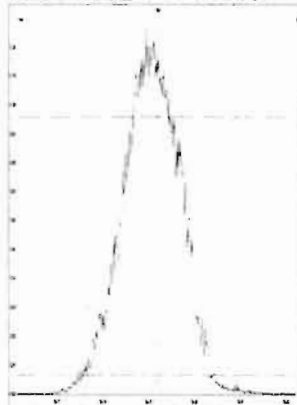
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, May 08, 2020 08:01:22 Pacific Daylight Time

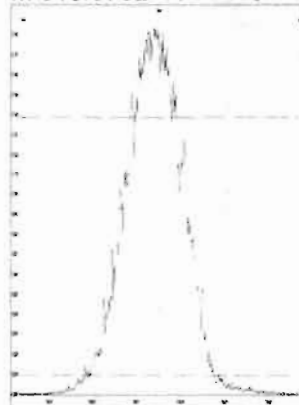
M 292.9824 R 10637



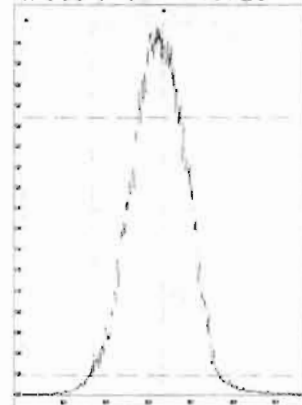
M 304.9824 R 11059



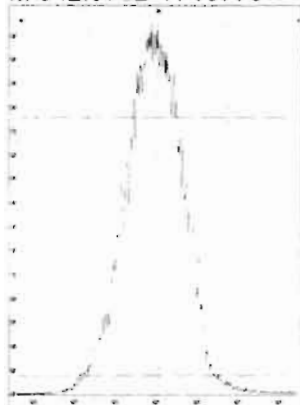
M 318.9792 R 11416



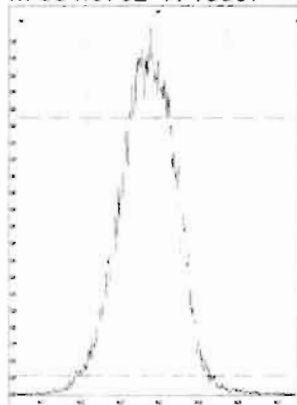
M 330.9792 R 10728



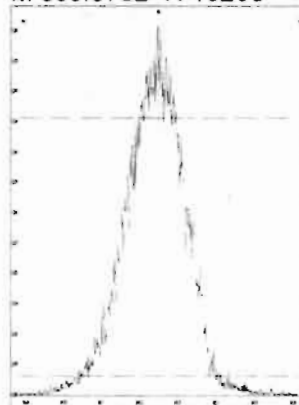
M 342.9792 R 10776



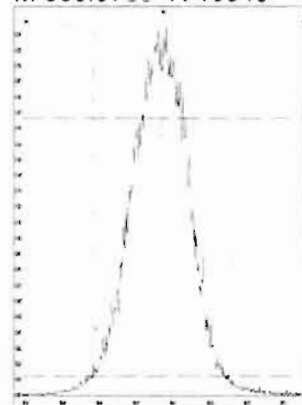
M 354.9792 R 10507



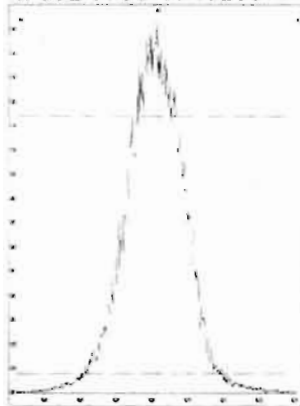
M 366.9792 R 10205



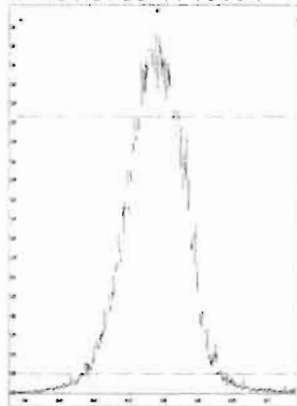
M 380.9760 R 10548



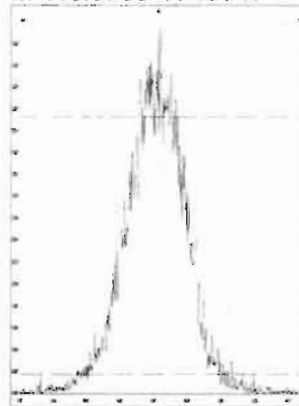
M 392.9760 R 10286



M 404.9760 R 10504



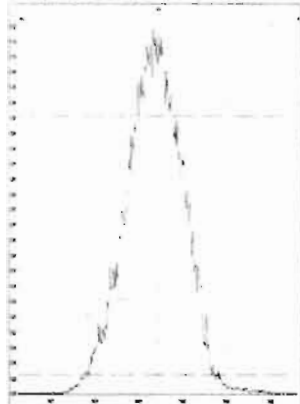
M 416.9760 R 10547



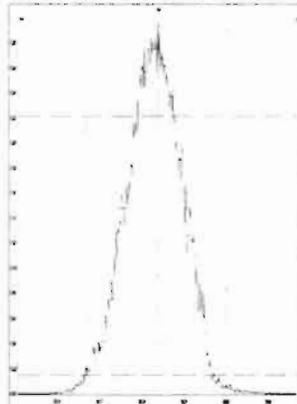
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, May 08, 2020 08:02:01 Pacific Daylight Time

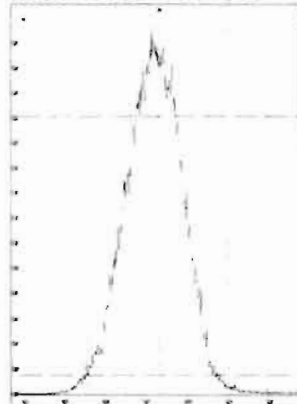
M 318.9792 R 11161



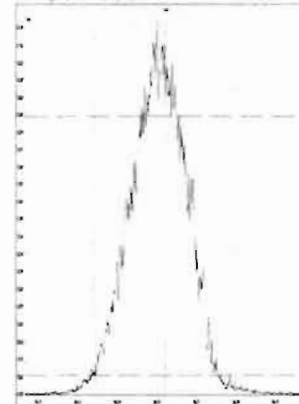
M 330.9792 R 11066



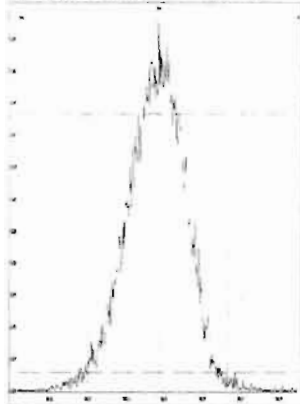
M 342.9792 R 11063



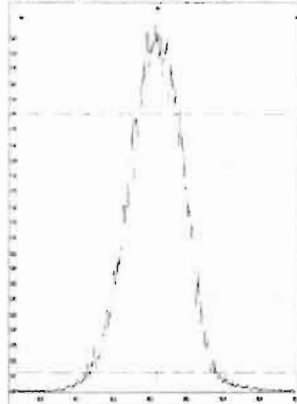
M 354.9792 R 10916



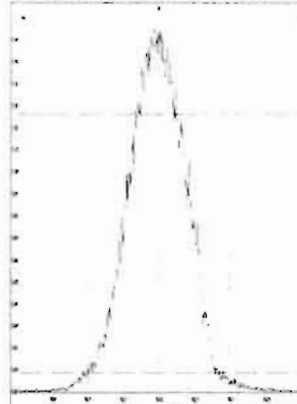
M 366.9792 R 10636



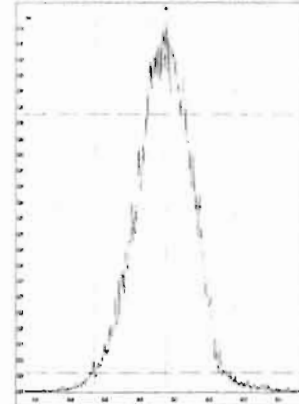
M 380.9760 R 11211



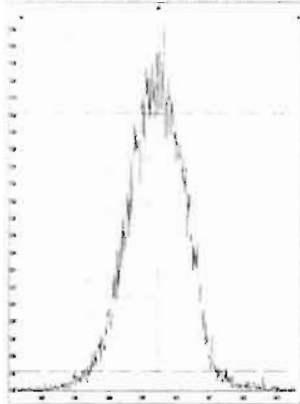
M 392.9760 R 10963



M 404.9760 R 11207



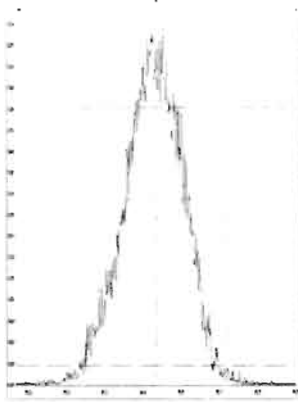
M 416.9760 R 11061



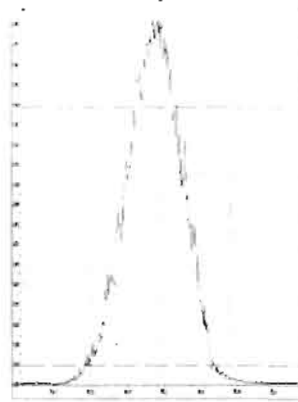
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, May 08, 2020 08:02:52 Pacific Daylight Time

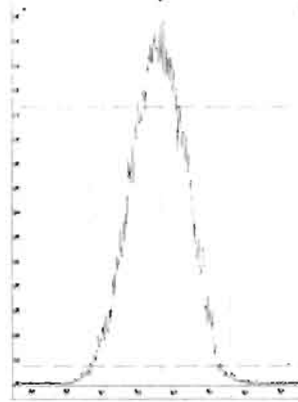
M 366.9792 R 10867



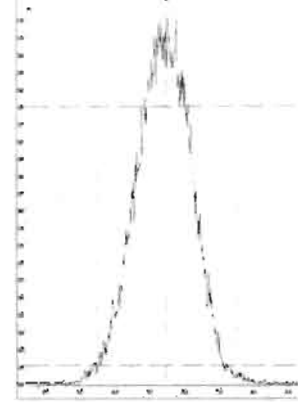
M 380.9760 R 11062



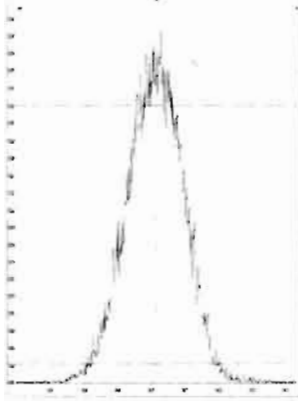
M 392.9760 R 11159



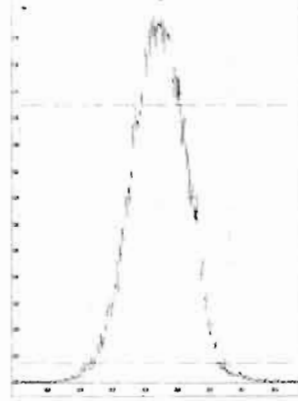
M 404.9760 R 11108



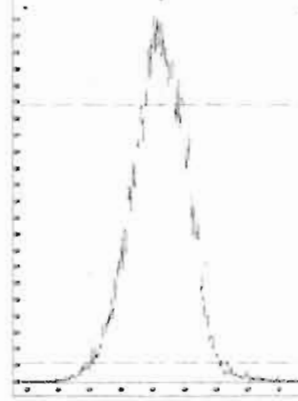
M 416.9760 R 11363



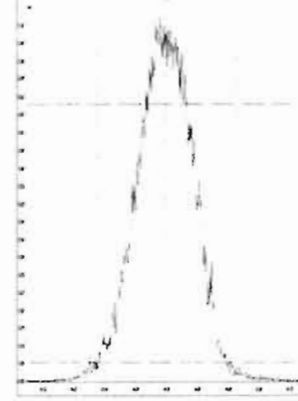
M 430.9728 R 11417



M 442.9728 R 11161



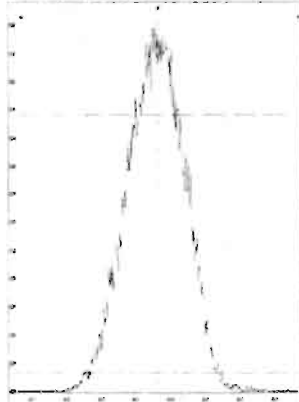
M 454.9728 R 10963



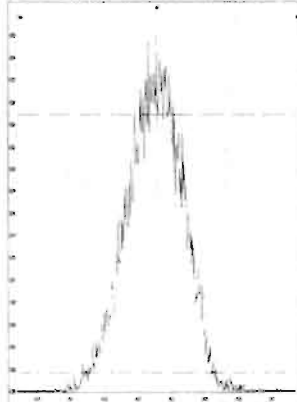
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, May 08, 2020 08:03:25 Pacific Daylight Time

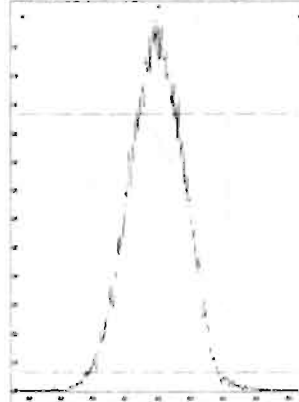
M 404.9760 R 10871



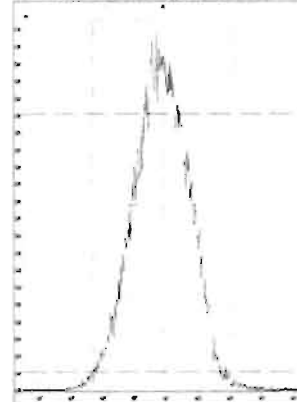
M 416.9760 R 11062



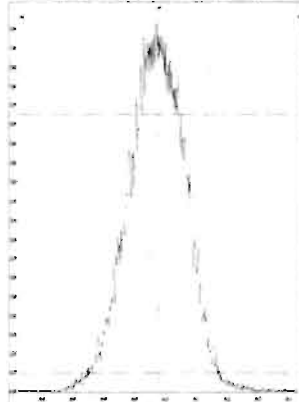
M 430.9728 R 11061



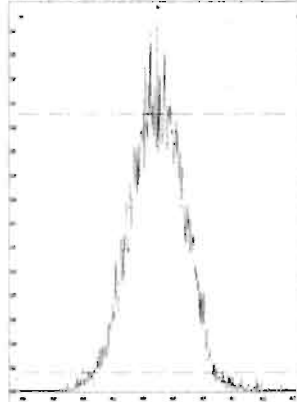
M 442.9728 R 11059



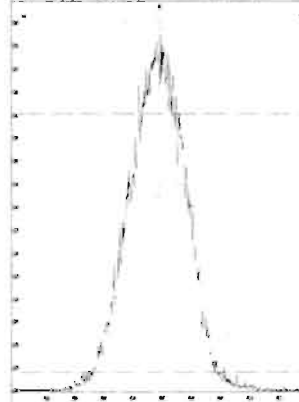
M 454.9728 R 10916



M 466.9728 R 11738



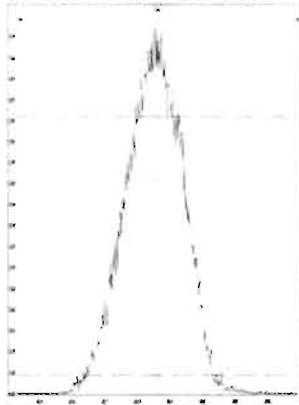
M 480.9696 R 11574



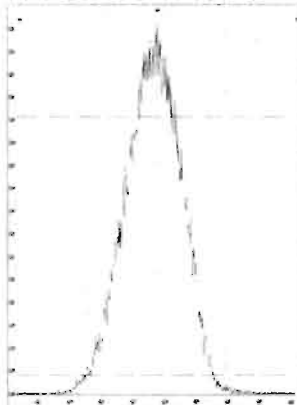
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, May 08, 2020 08:04:07 Pacific Daylight Time

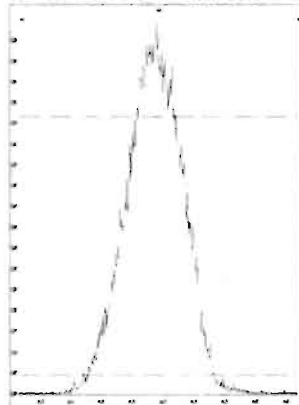
M 430.9728 R 10965



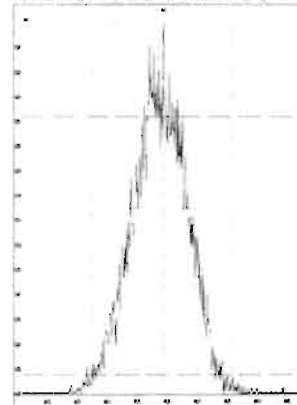
M 442.9728 R 10825



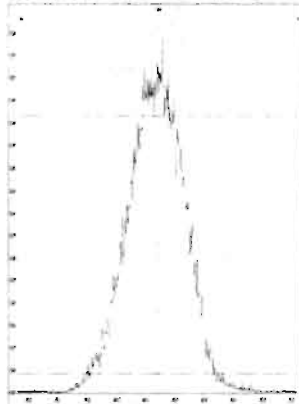
M 454.9728 R 11108



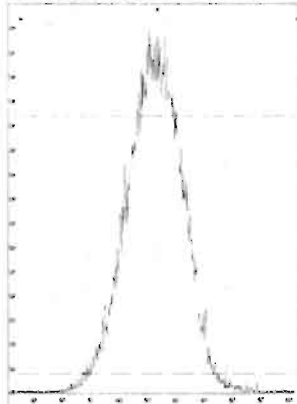
M 466.9728 R 11736



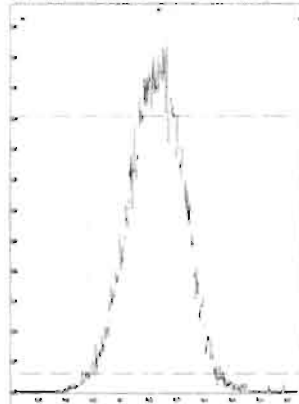
M 480.9696 R 11263



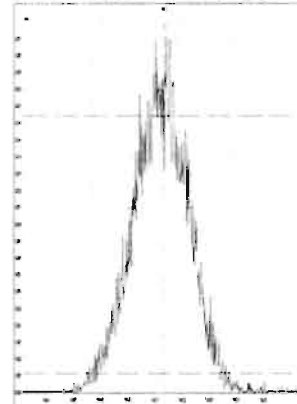
M 492.9696 R 10776



M 504.9696 R 11159



M 516.9697 R 11468



Dataset: Untitled

Last Altered: Friday, May 08, 2020 9:02:01 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 9:02:22 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200508R1_1, Date: 08-May-2020, Time: 08:06:47, ID: ST200508R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.83
2	2 1,2,8,9-TCDD (Last)	26.99
3	3 1,2,4,7,9-PeCDD (First)	28.84
4	4 1,2,3,8,9-PeCDD (Last)	31.48
5	5 1,2,4,6,7,9-HxCDD (First)	32.99
6	6 1,2,3,7,8,9-HxCDD (Last)	34.84
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.30
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.34
9	9 1,3,6,8-TCDF (First)	19.78
10	10 1,2,8,9-TCDF (Last)	27.14
11	11 1,3,4,6,8-PeCDF (First)	27.11
12	12 1,2,3,8,9-PeCDF (Last)	31.72
13	13 1,2,3,4,6,8-HxCDF (First)	32.43
14	14 1,2,3,7,8,9-HxCDF (Last)	35.18
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.91
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.93

Dataset: Untitled

Last Altered: Friday, May 08, 2020 9:02:01 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 9:02:22 AM Pacific Daylight Time

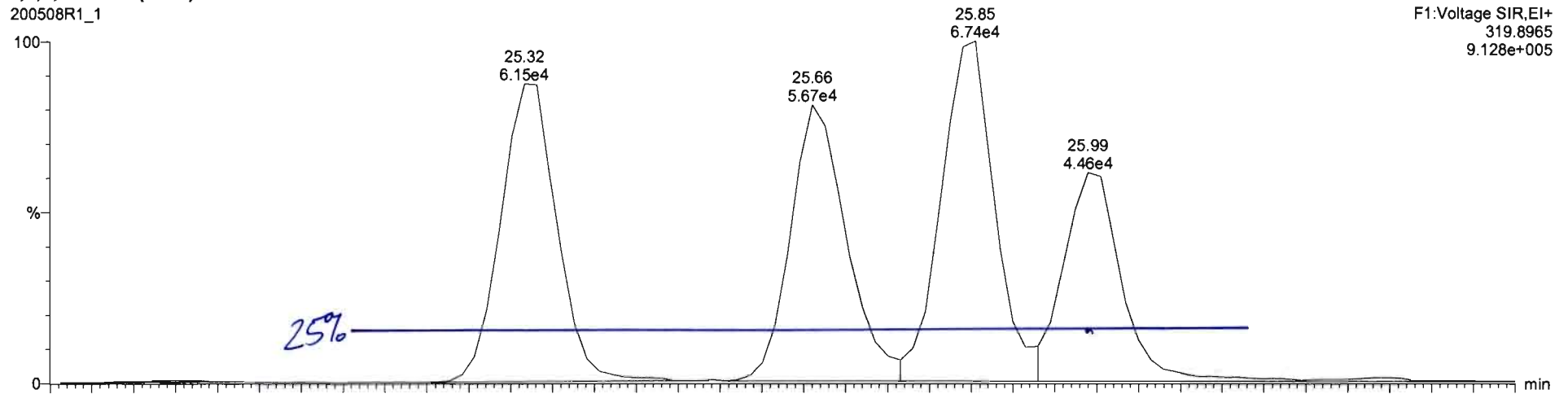
GRB 05/08/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

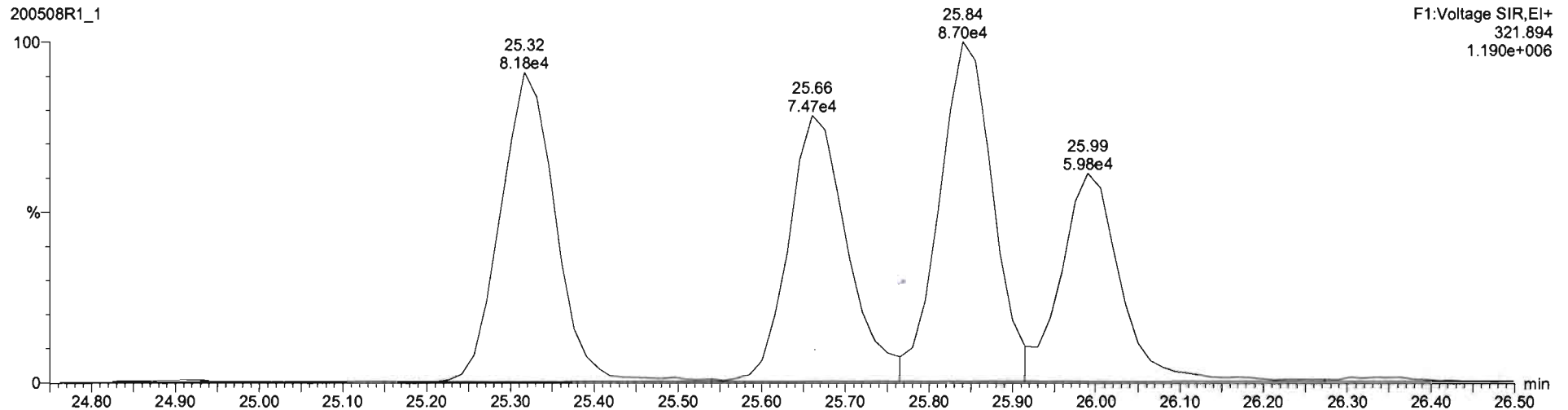
Name: 200508R1_1, Date: 08-May-2020, Time: 08:06:47, ID: ST200508R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200508R1_1



200508R1_1



Dataset: Untitled

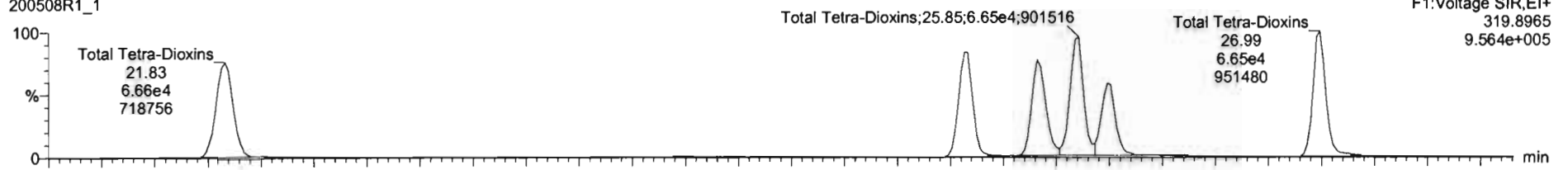
Last Altered: Friday, May 08, 2020 8:55:03 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 8:56:41 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

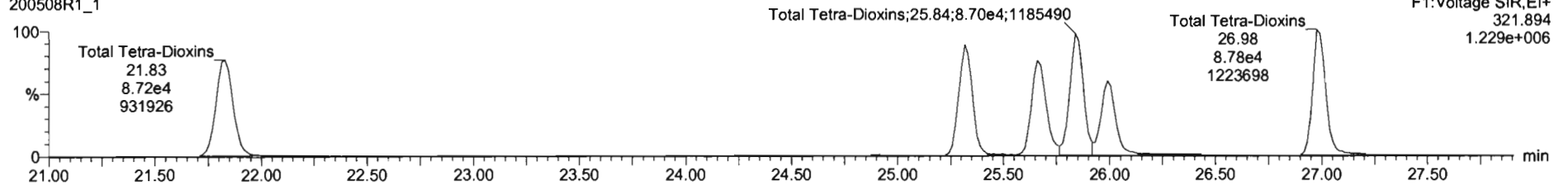
Name: 200508R1_1, Date: 08-May-2020, Time: 08:06:47, ID: ST200508R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200508R1_1

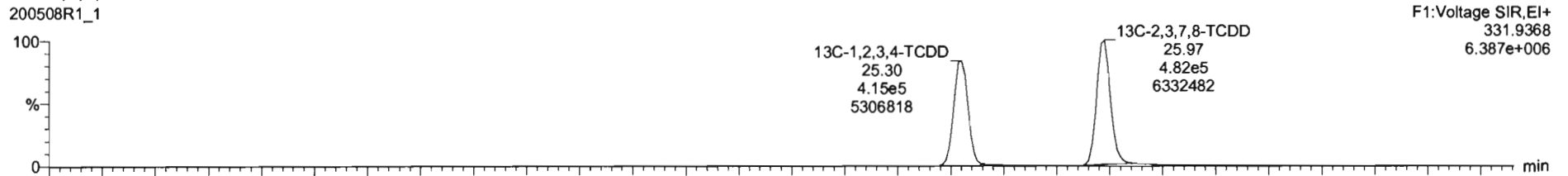


200508R1_1

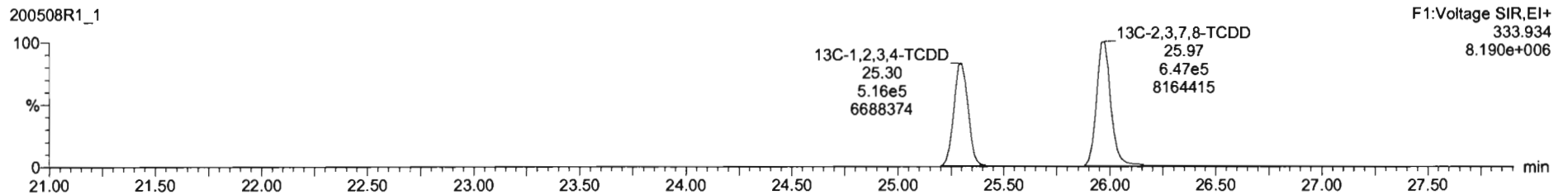


13C-2,3,7,8-TCDD

200508R1_1



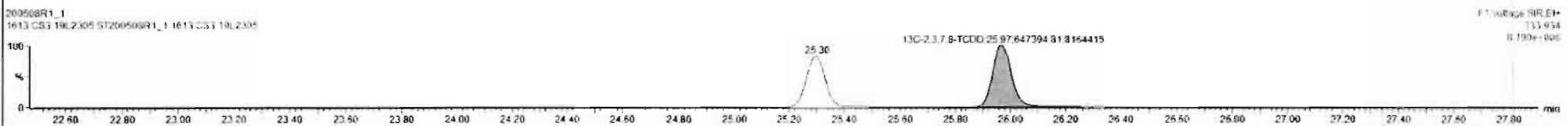
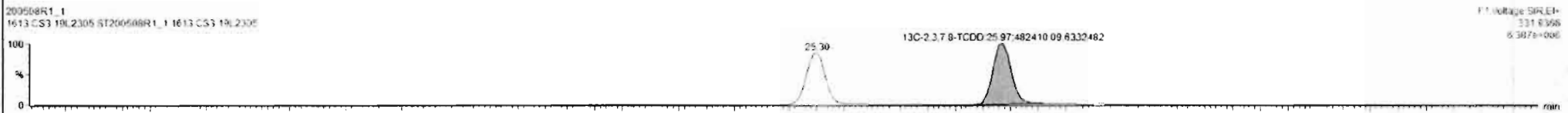
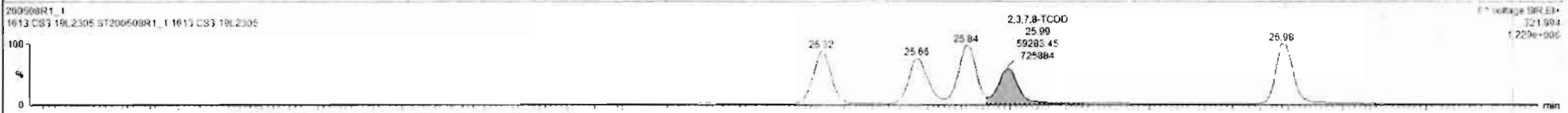
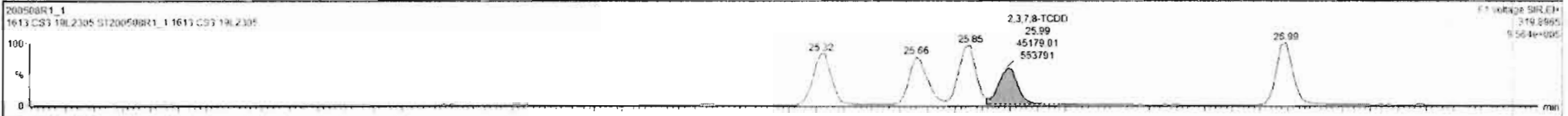
200508R1_1



#	Name	Resp	S Resp	Pred RA	RA	ely	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
27	13C-1,2,3,4,7,8-PeCDF	1.04e6	1.33e6	1.55	1.54	NO	0.0141	30.73	30.74	NO	1.215	1.215	96.3	96.3	NO
28	13C-1,2,3,4,7,8-HxCDF	6.52e5	6.24e5	0.51	0.50	NO	1.0949	32.59	33.59	NO	0.989	0.989	104	104	NO
29	13C-1,2,3,6,7,8-HxCDF	7.90e5	6.24e5	0.51	0.50	NO	1.1368	33.71	32.71	NO	0.992	0.992	111	111	NO
30	13C-2,3,4,6,7,8-HxCDF	6.78e5	6.24e5	0.51	0.51	NO	1.0223	34.28	34.28	NO	1.009	1.009	106	106	NO
31	13C-1,2,3,7,8,9-HxCDF	4.85e5	6.24e5	0.51	0.51	NO	0.9445	35.17	35.17	NO	1.035	1.035	92.0	92.0	NO
32	13C-1,2,3,4,6,7,8-HpCDF	4.62e5	6.24e5	0.44	0.43	NO	0.7712	36.90	36.90	NO	1.086	1.086	100	100	NO
33	13C-1,2,3,4,7,8,9-HpCDF	2.32e5	6.24e5	0.44	0.42	NO	0.4823	38.91	38.90	NO	1.145	1.145	77.0	77.0	NO
34	13C-OCDF	4.76e5	6.24e5	0.89	0.88	NO	0.6686	41.48	41.49	NO	1.221	1.221	115	115	NO
35	13C-2,3,7,8-TCDD	9.01e4	9.33e5				1.0664	26.50	25.96	NO	1.028	1.027	9.57	95.7	NO
36	13C-1,2,3,4-TCDD	9.23e5	9.33e5	0.77	0.81	NO	1.0000	25.35	25.30	NO	1.000	1.000	100	100	NO
37	13C-1,2,3,4-TCDF	1.33e6	1.33e6	0.77	0.78	NO	1.0000	23.56	23.52	NO	1.000	1.000	100	100	NO
38	13C-1,2,3,4,6,9-HxCDF	6.24e5	6.24e5	0.51	0.51	NO	1.0000	34.00	33.97	NO	1.000	1.000	100	100	YES
39	Total Tetra-Dioxins		1.17e5				0.9475	24.62		NO	0.000		78.4		NO
40	Total Penta-Dioxins		6.01e5				0.9425	29.96		NO	0.000		197		NO
41	Total Hexa-Dioxins		0.00e0				0.9145	33.63		NO	0.000		241		NO
42	Total Hepta-Dioxins		3.35e5				0.8975	37.64		NO	0.000		132		NO
43	Total Tetra-Furans		1.41e6				0.7871	23.81		NO	0.000		47.4		NO



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.04e5	0.76	NO	0.95	1.000	25.99	1.001	9.79	97.8	0.0600	3.75
2	1,2,3,7,8-PeCDD	3.49e5	0.82	NO	0.94	1.000	31.06	1.000	46.2	52.5	0.102	48.2
3	1,2,3,4,7,8-HxCDD	2.38e5	1.22	NO	1.06	1.000	34.46	1.000	46.8	53.1	0.252	46.8
4	1,2,3,6,7,8-HxCDD	2.84e5	1.25	NO	0.91	1.000	34.56	1.000	47.8	55.2	0.253	47.8
5	1,2,3,7,8,9-HxCDD	2.46e5	1.25	NO	0.91	1.000	34.84	1.000	47.1	54.3	0.297	47.1
6	1,2,3,4,6,7,8-HpCDD	1.71e5	1.03	NO	0.90	1.000	38.24	1.001	48.1	56.1	0.512	48.1
7	OCDD	2.54e5	0.85	NO	0.93	1.000	41.32	1.000	96.8	56.2	0.296	96.8
8	2,3,7,8-TCDF	1.04e5	0.74	NO	0.79	1.000	25.05	1.001	9.40	94.0	0.0764	9.40
9	1,2,3,7,8-PeCDF	4.98e5	1.53	NO	0.91	1.000	29.77	1.001	48.7	57.4	0.143	48.7
10	2,3,4,7,8-PeCDF	4.73e5	1.53	NO	0.97	1.000	30.77	1.001	45.9	53.2	0.142	46.0
11	1,2,3,4,7,8-HxCDF	3.01e5	1.22	NO	0.88	1.000	33.60	1.000	52.5	105	0.230	52.5
12	1,2,3,6,7,8-HxCDF	3.46e5	1.24	NO	0.87	1.000	33.73	1.001	50.2	100	0.232	50.2
13	2,3,4,6,7,8-HxCDF	2.22e5	1.20	NO	0.92	1.000	34.29	1.000	51.7	103	0.259	51.7
14	1,2,3,7,8,9-HxCDF	2.13e5	1.23	NO	0.86	1.000	35.18	1.000	50.9	102	0.495	50.9
15	1,2,3,4,6,7,8-HpCDF	2.21e5	1.00	NO	0.87	1.000	36.91	1.000	52.5	105	0.359	52.5
16	1,2,3,4,7,8,9-HpCDF	1.28e5	1.03	NO	1.01	1.000	38.93	1.001	52.9	106	0.898	52.9
17	OCDF	1.93e5	0.88	NO	0.89	1.000	41.59	1.000	101	101	0.339	101



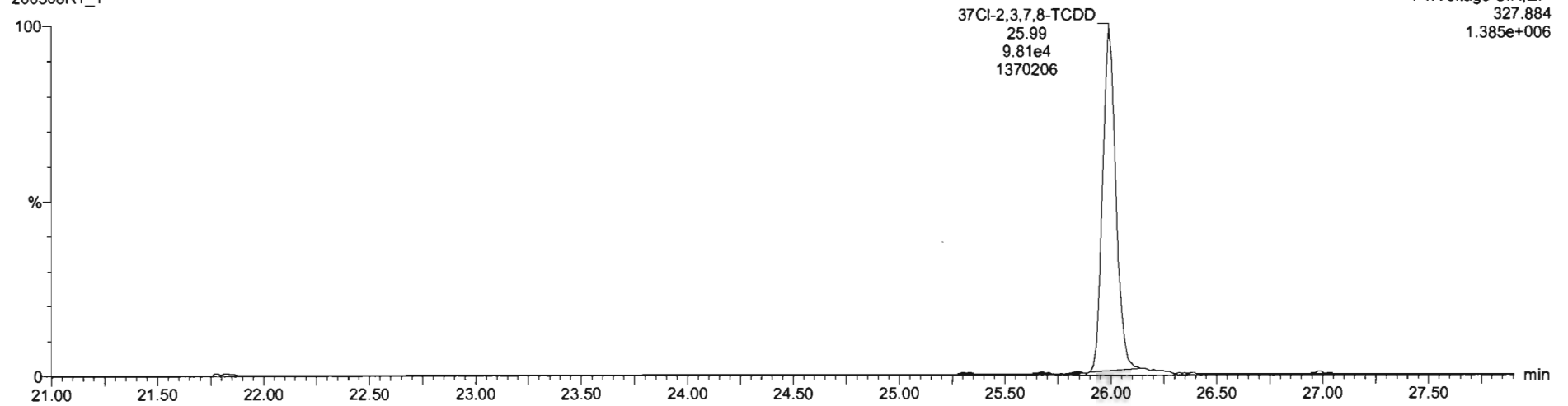
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Last Altered: Friday, May 08, 2020 8:55:03 AM Pacific Daylight Time
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Name: 200508R1_1, Date: 08-May-2020, Time: 08:06:47, ID: ST200508R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

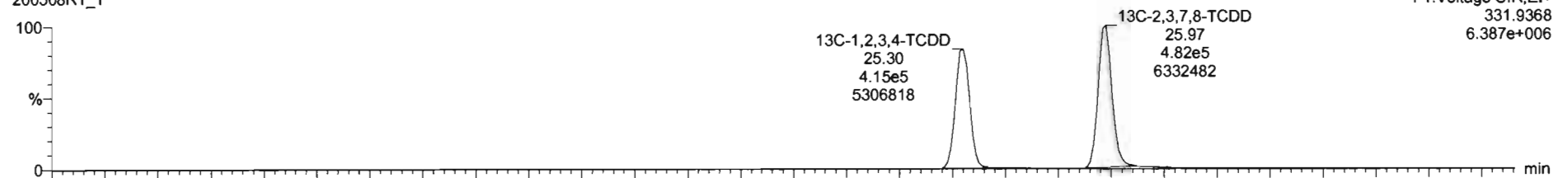
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200508R1_1

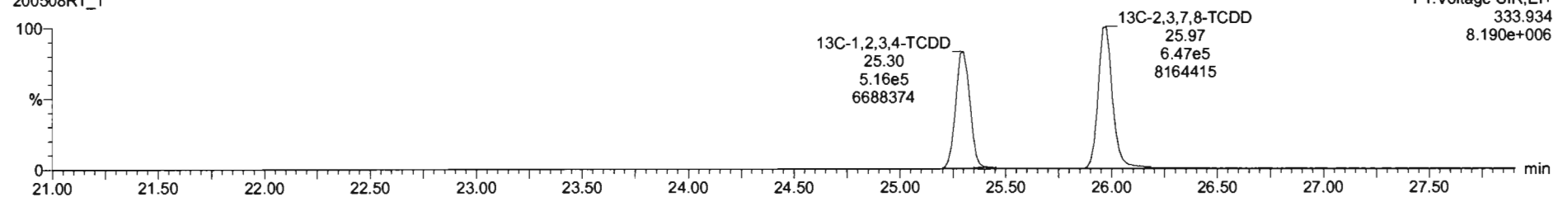


13C-1,2,3,4-TCDD

200508R1_1



200508R1_1



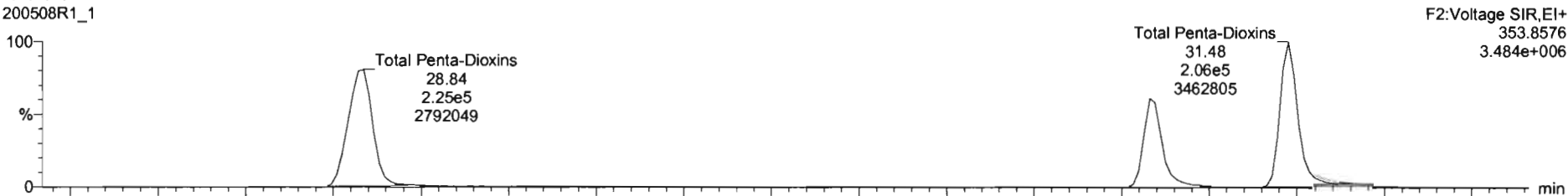
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Printed: Friday, May 08, 2020 8:56:41 AM Pacific Daylight Time

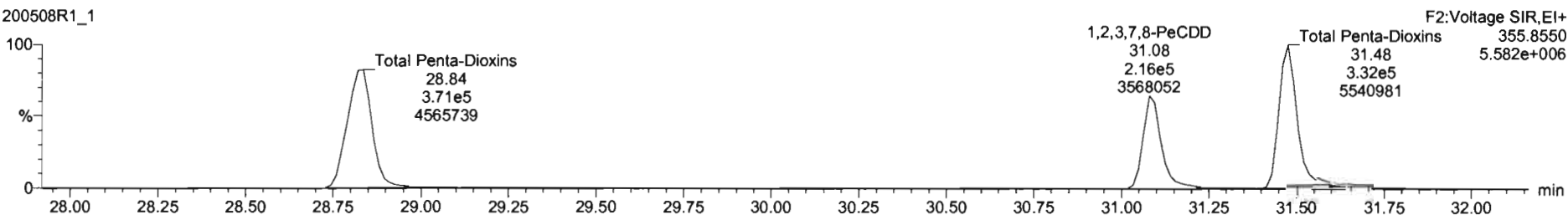
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1,2,3,7,8-PeCDD

200508R1_1

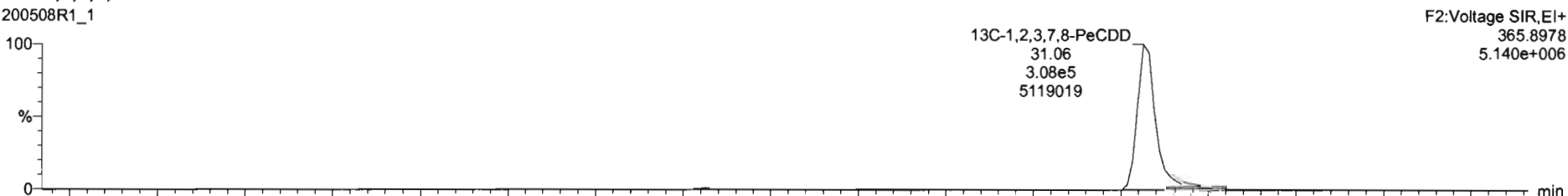


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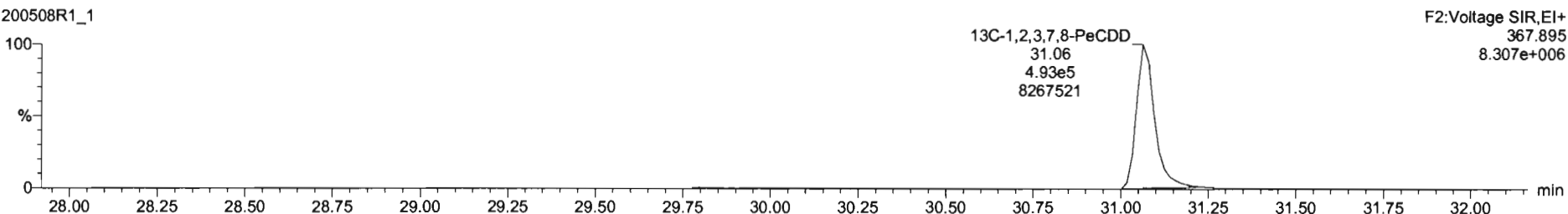


13C-1,2,3,7,8-PeCDD

200508R1_1



200508R1_1



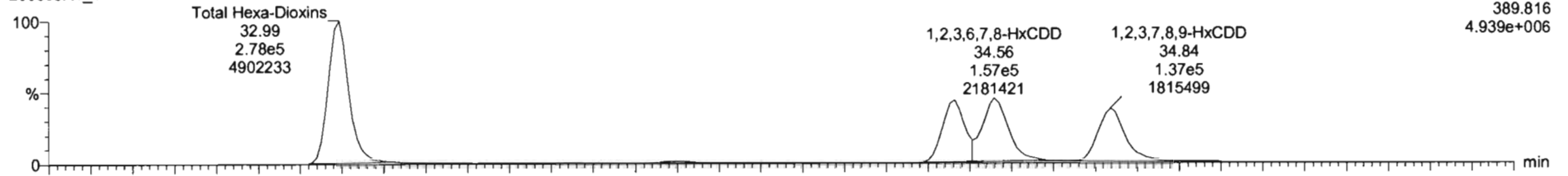
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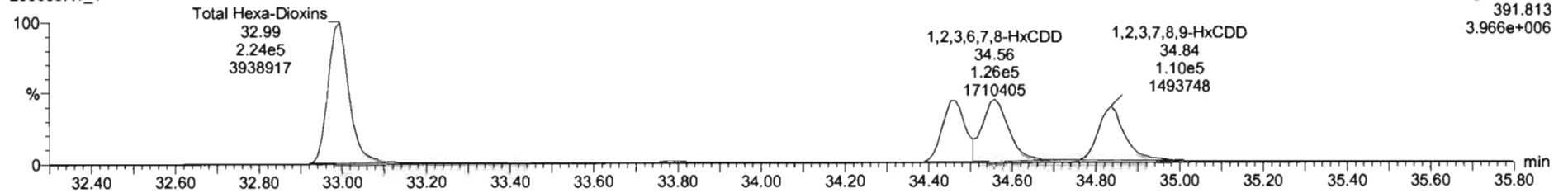
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1,2,3,4,7,8-HxCDD

200508R1_1

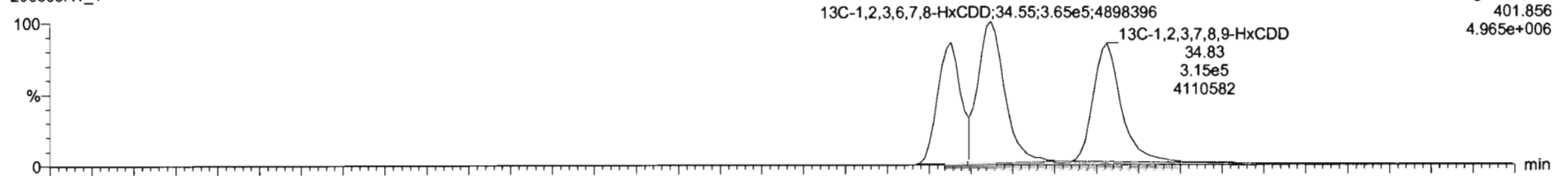


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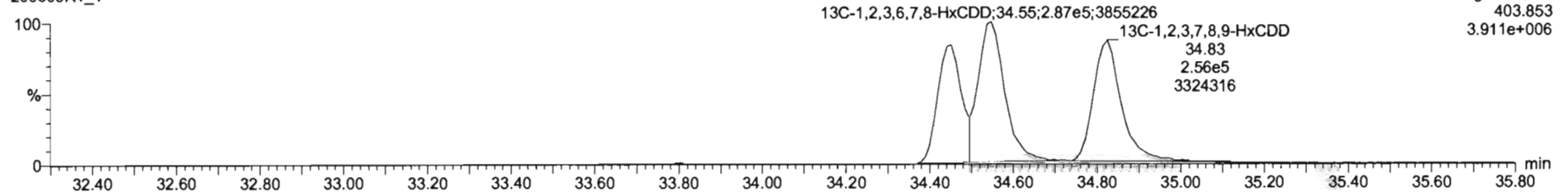


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200508R1_1



200508R1_1



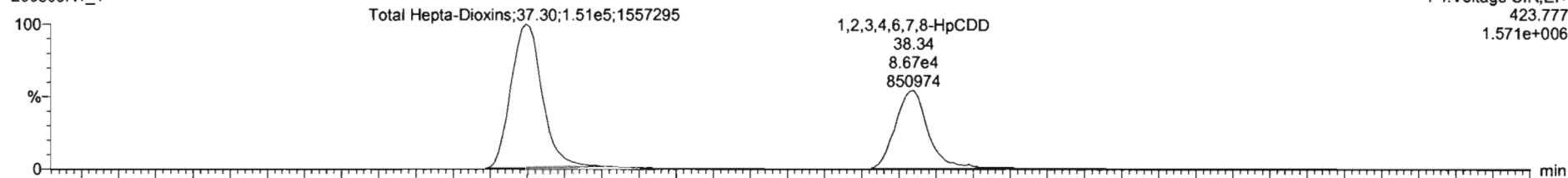
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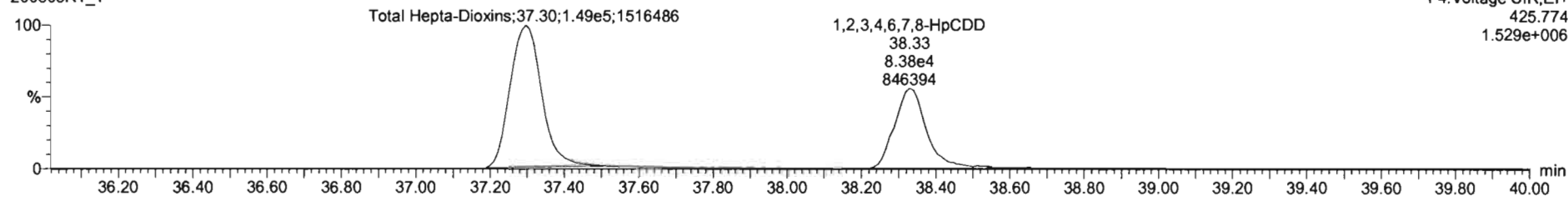
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1,2,3,4,6,7,8-HpCDD

200508R1_1

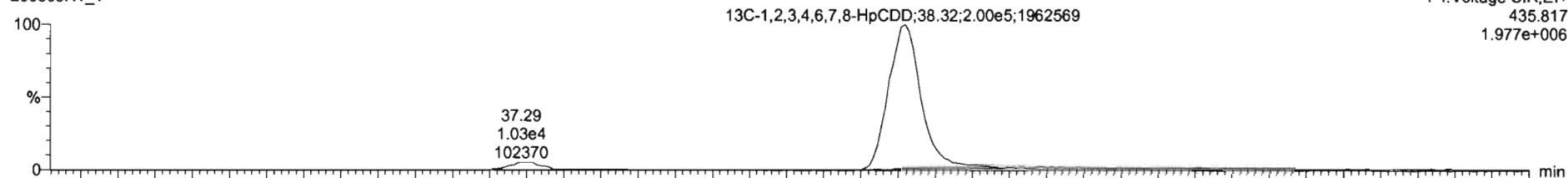


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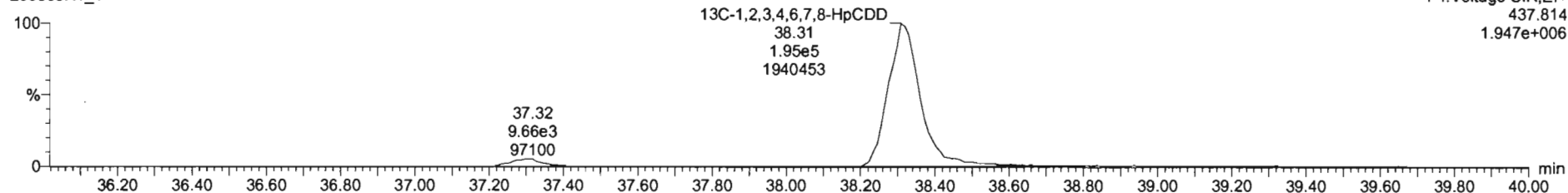


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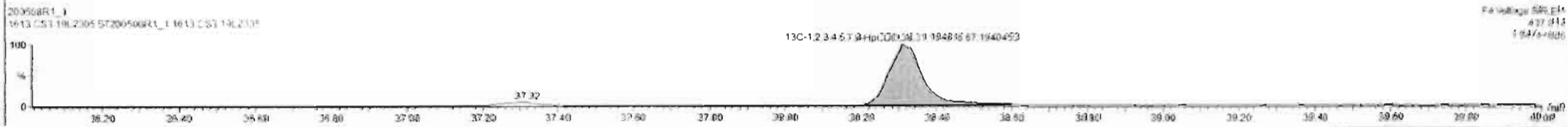
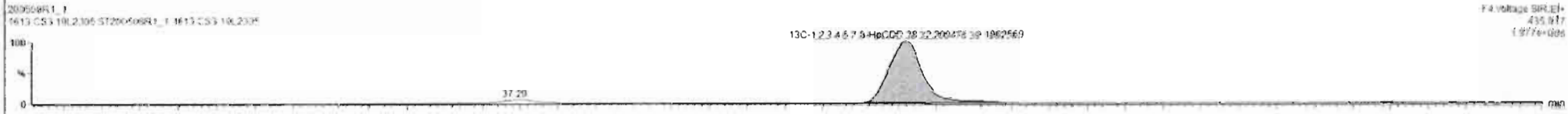
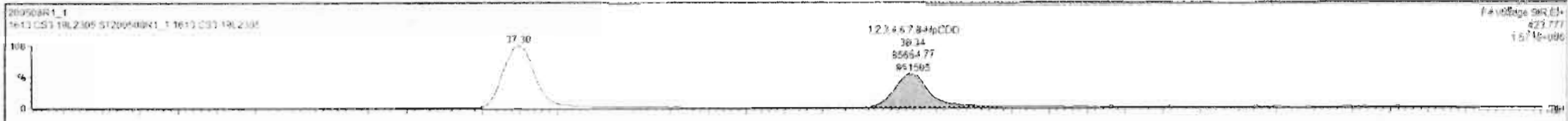
200508R1_1



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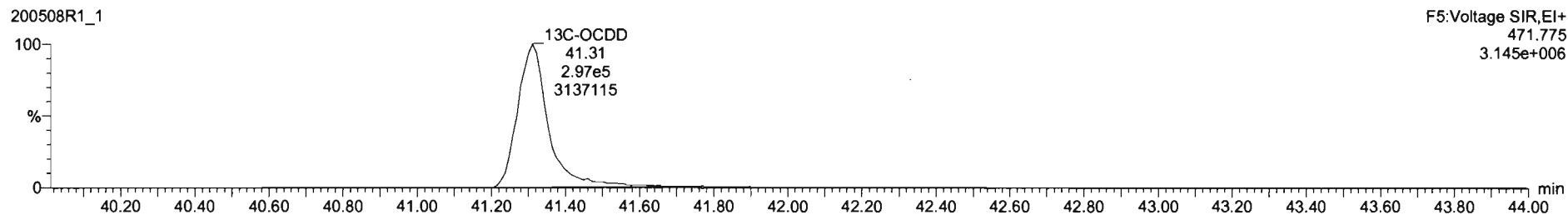
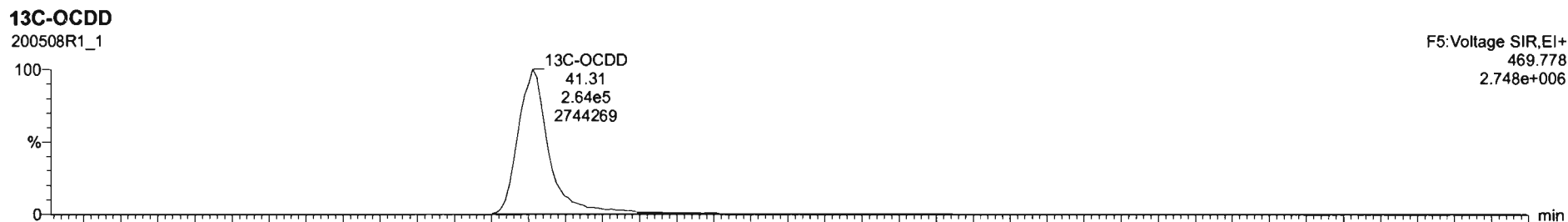
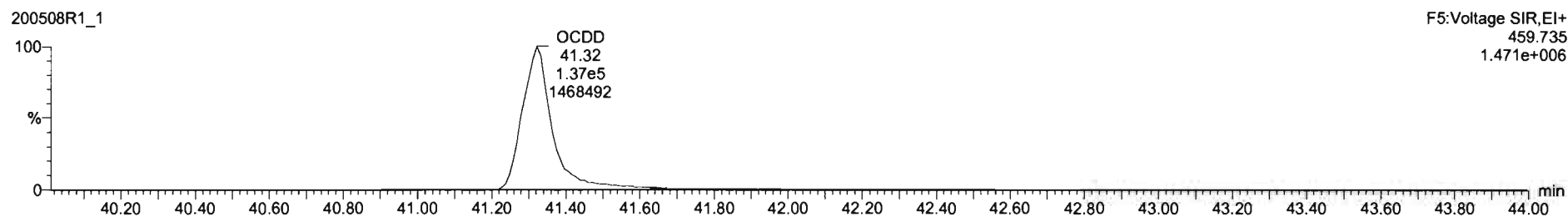
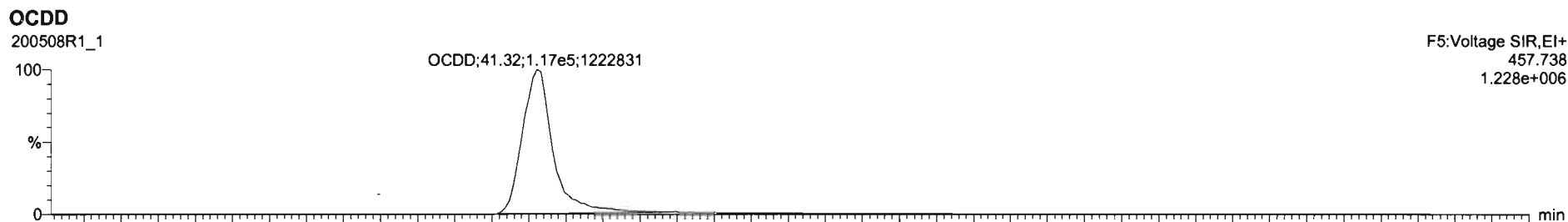
#	Name	Resp	RA	ntf	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.04e5	0.76	NO	0.95	1.000	25.99	1.001	9.76	97.6	0.0500	9.76
2	1,2,3,7,8-PeCDD	2.49e5	0.62	NO	0.84	1.000	31.06	1.000	46.2	52.5	0.192	46.2
3	1,2,3,4,7,8-HxCDD	2.38e5	1.22	NO	1.08	1.000	34.46	1.000	46.6	93.1	0.252	46.6
4	1,2,3,6,7,8-HxCDD	2.84e5	1.25	NO	0.91	1.000	34.56	1.000	47.0	95.7	0.253	47.0
5	1,2,3,7,8,9-HxCDD	2.40e5	1.25	NO	0.91	1.000	34.64	1.000	47.1	94.3	0.267	47.1
6	1,2,3,4,6,7,8-HpCDD	1.70e5	1.02	NO	0.88	1.000	38.34	1.001	47.8	98.5	0.512	47.8
7	OCDD	2.54e5	0.85	NO	0.93	1.000	41.32	1.000	95.8	96.8	0.296	96.8
8	2,3,7,8-TCDF	1.04e5	0.74	NO	0.79	1.000	25.05	1.001	9.40	94.0	0.0764	9.40
9	1,2,3,7,8-PeCDF	4.90e5	1.53	NO	0.91	1.000	29.77	1.001	48.7	57.4	0.143	48.7
10	1,2,3,4,7,8-PeCDF	4.73e5	1.53	NO	0.97	1.000	30.77	1.001	46.9	93.8	0.142	46.9
11	1,2,3,4,7,8-HxCDF	3.01e5	1.22	NO	0.88	1.000	33.60	1.000	52.5	105	0.230	52.5
12	1,2,3,6,7,8-HxCDF	3.46e5	1.24	NO	0.87	1.000	33.73	1.001	50.2	100	0.230	50.2
13	2,3,4,6,7,8-HxCDF	3.22e5	1.20	NO	0.92	1.000	34.29	1.000	51.7	103	0.259	51.7
14	1,2,3,7,8,9-HxCDF	2.13e5	1.23	NO	0.86	1.000	35.18	1.000	50.9	102	0.495	50.9
15	1,2,3,4,6,7,8-HpCDF	2.21e5	1.00	NO	0.87	1.000	36.91	1.000	52.5	105	0.359	52.5
16	1,2,3,4,7,8,9-HpCDF	1.20e5	1.03	NO	1.01	1.000	38.93	1.001	52.9	106	0.800	52.9
17	OCDF	1.93e5	0.86	NO	0.80	1.000	41.59	1.000	101	101	0.338	101



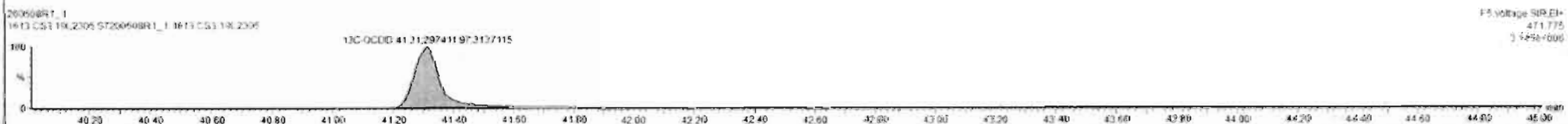
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Last Altered: Friday, May 08, 2020 8:55:03 AM Pacific Daylight Time
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Name: 200508R1_1, Date: 08-May-2020, Time: 08:06:47, ID: ST200508R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



Name	Risp	RA	RIY	RRF	wPwt	RT	RRT	Conc.	%Rec	DL	LUPC
1 2,3,7,8-TCDD	1.04e5	0.76	NO	0.95	1.000	25.99	1.001	9.76	97.6	0.0600	9.76
2 1,2,3,7,8-PeCDD	3.49e5	0.82	NO	0.94	1.000	31.08	1.000	46.2	52.5	0.102	46.2
3 1,2,3,4,7,8-HxCDD	2.38e5	1.22	NO	1.06	1.000	34.46	1.000	46.6	93.1	0.252	46.6
4 1,2,3,6,7,8-HxCDD	2.84e5	1.25	NO	0.91	1.000	34.56	1.000	47.0	95.2	0.253	47.0
5 1,2,3,7,8,9-HxCDD	2.46e5	1.25	NO	0.91	1.000	34.64	1.000	47.1	94.3	0.297	47.1
6 1,2,3,4,6,7,8-HpCDD	1.76e5	1.02	NO	0.90	1.000	38.34	1.001	47.8	96.5	0.112	47.8
7 OCDD	2.51e5	0.87	NO	0.93	1.000	41.32	1.000	65.7	99.7	0.299	65.7
8 2,3,7,8-TCDF	1.04e5	0.74	NO	0.79	1.000	25.05	1.001	9.40	94.0	0.0784	9.40
9 1,2,3,7,8-PeCDF	4.39e5	1.53	NO	0.91	1.000	29.77	1.001	48.7	97.4	0.143	48.7
10 2,3,4,7,8-PeCDF	4.75e5	1.53	NO	0.97	1.000	30.77	1.001	46.9	93.2	0.142	46.9
11 1,2,3,4,7,8-HxCDF	3.01e5	1.22	NO	0.88	1.000	33.60	1.000	52.5	105	0.230	52.5
12 1,2,3,6,7,8-HxCDF	3.46e5	1.24	NO	0.87	1.000	33.73	1.001	50.2	100	0.230	50.2
13 2,3,4,6,7,8-HpCDF	3.22e5	1.20	NO	0.92	1.000	34.29	1.000	51.7	103	0.259	51.7
14 1,2,3,7,8,9-HxCDF	2.13e5	1.23	NO	0.96	1.000	35.13	1.000	50.9	102	0.499	50.9
15 1,2,3,4,6,7,8-HpCDF	2.21e5	1.00	NO	0.87	1.000	36.91	1.000	52.5	105	0.359	52.5
16 1,2,3,4,7,8,9-HpCDF	1.20e5	1.03	NO	1.01	1.000	38.93	1.001	52.9	106	0.608	52.9
17 OCDF	1.93e5	0.86	NO	0.80	1.000	41.59	1.000	101	101	0.338	101

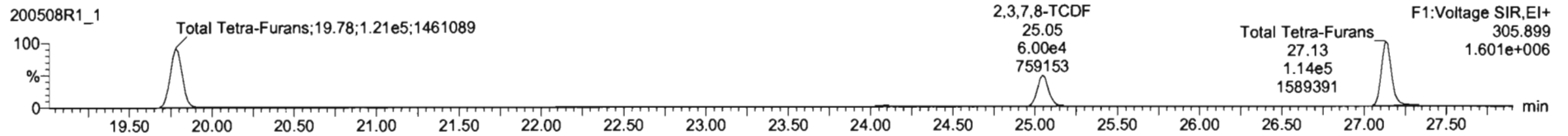
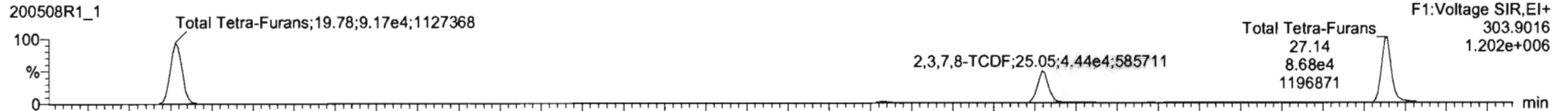


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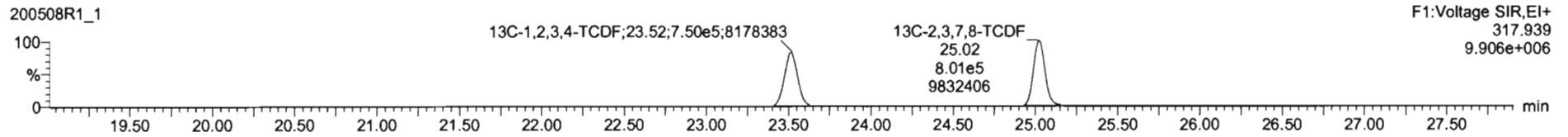
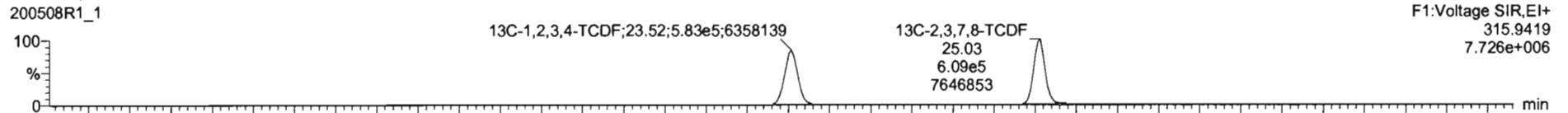
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Name: 200508R1_1, Date: 08-May-2020, Time: 08:06:47, ID: ST200508R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

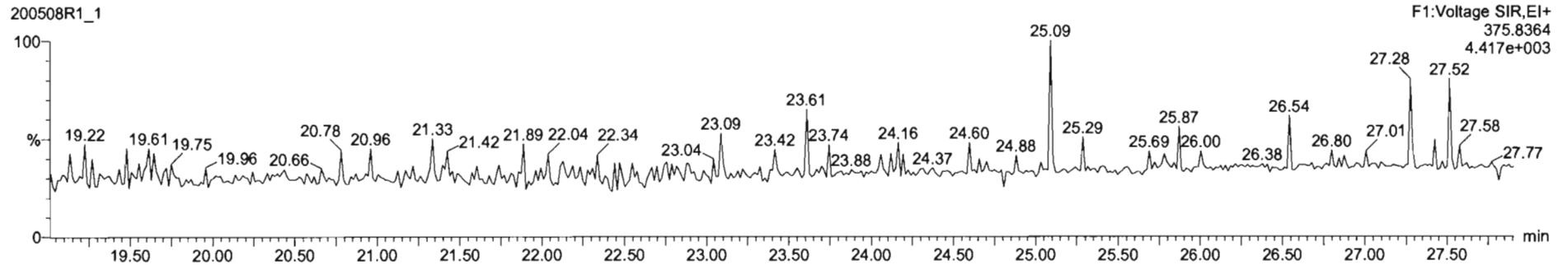
2,3,7,8-TCDF



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



DPE1



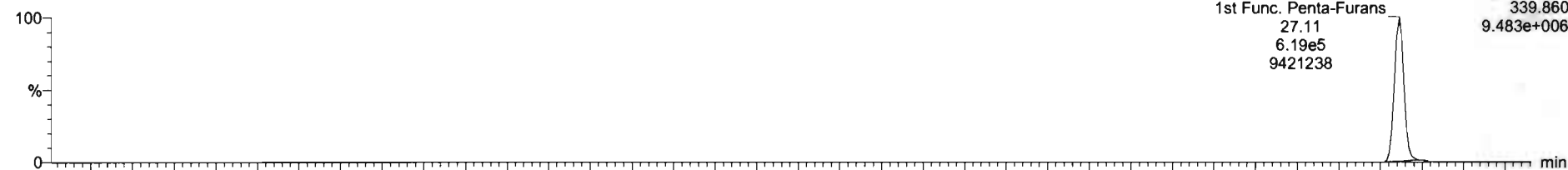
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Printed: Friday, May 08, 2020 8:56:41 AM Pacific Daylight Time

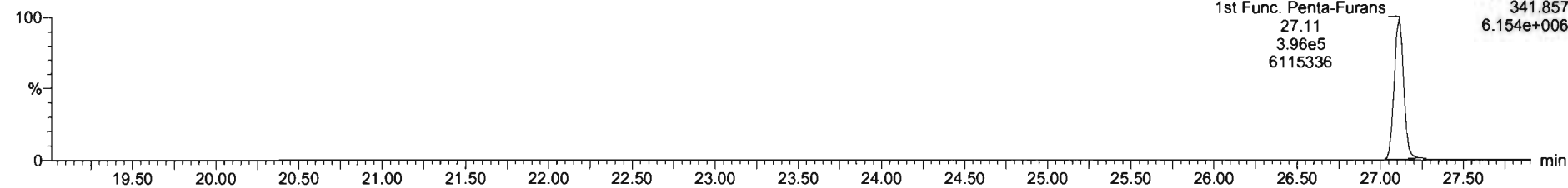
Name: 200508R1_1, Date: 08-May-2020, Time: 08:06:47, ID: ST200508R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200508R1_1

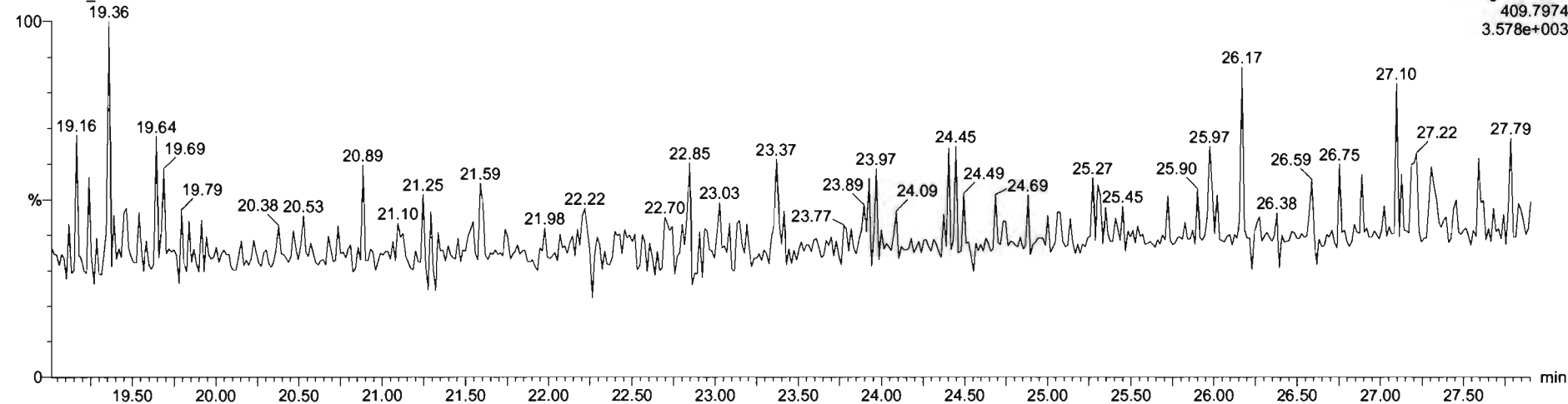


200508R1_1



DPE6

200508R1_1



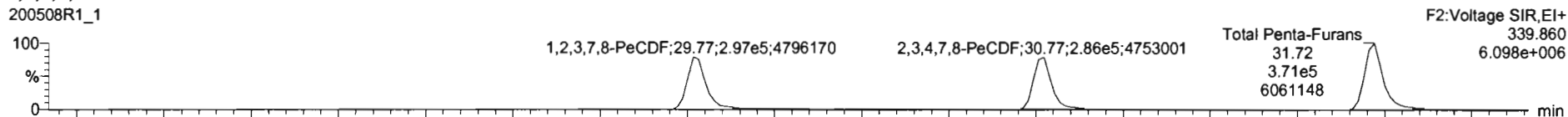
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Printed: Friday, May 08, 2020 8:56:41 AM Pacific Daylight Time

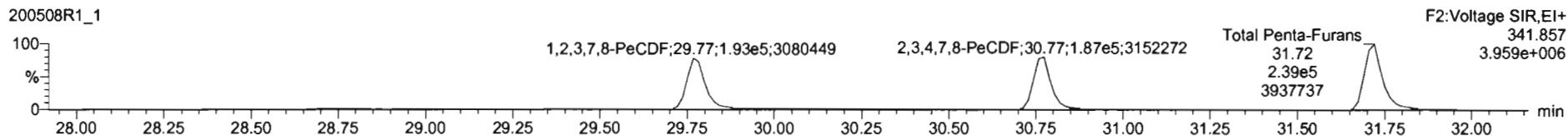
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1,2,3,7,8-PeCDF

200508R1_1

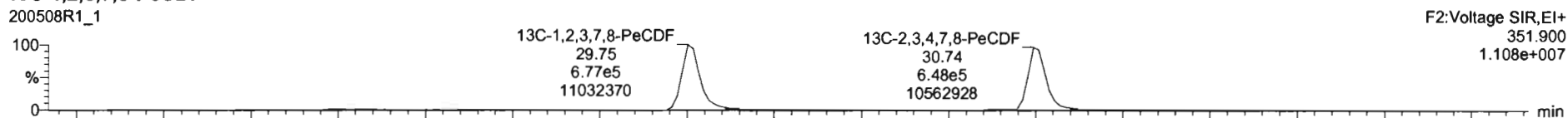


200508R1_1

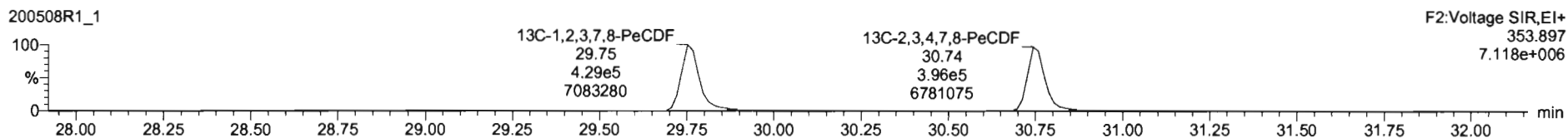


13C-1,2,3,7,8-PeCDF

200508R1_1

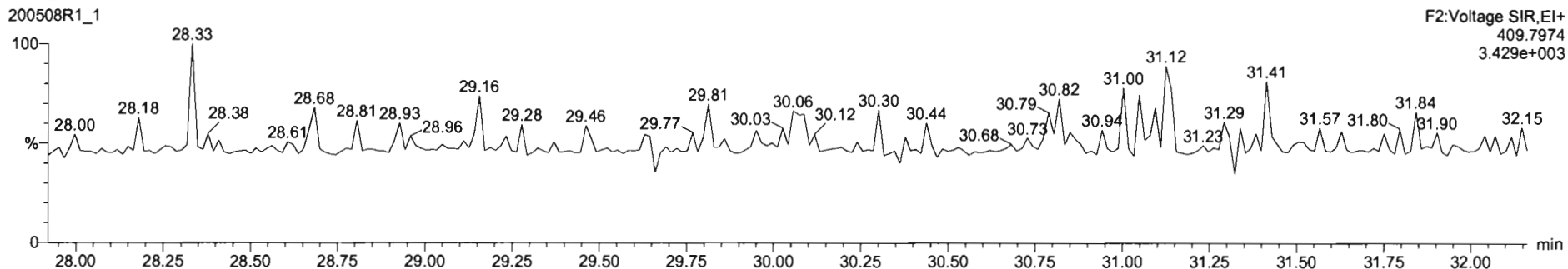


200508R1_1



DPE2

200508R1_1



#	Name	Resp	RA	sfy	RRF	wtProt	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.04e5	0.76	NO	0.95	1.000	28.99	1.001	9.76	97.5	0.8600	9.76
2	1,2,3,7,8-PeCDD	3.46e5	0.82	NO	0.94	1.000	31.08	1.000	46.2	52.5	0.192	46.2
3	1,2,3,4,7,8-HxCDD	2.38e5	1.22	NO	1.96	1.000	34.46	1.000	46.6	93.1	0.252	46.6
4	1,2,3,6,7,8-HxCDD	2.84e5	1.25	NO	0.91	1.000	34.56	1.000	47.8	95.2	0.253	47.6
5	1,2,3,7,8,9-HxCDD	2.46e5	1.25	NO	0.91	1.000	34.84	1.000	47.1	94.3	0.297	47.1
6	1,2,3,4,6,7,8-HpCDD	1.79e5	1.02	NO	0.90	1.000	38.34	1.001	47.8	95.3	0.512	47.8
7	OCDD	2.51e5	0.87	NO	0.93	1.000	41.32	1.000	95.7	95.7	0.296	95.7
8	2,3,7,8-TCDF	1.04e5	0.74	NO	0.79	1.000	25.05	1.001	9.40	94.0	0.0784	9.40
9	1,2,3,7,8-PeCDF	4.63e5	1.59	NO	0.61	1.000	29.77	1.001	48.0	96.0	0.143	48.0
10	2,3,4,7,8-PeCDF	4.73e5	1.53	NO	0.57	1.000	30.77	1.001	46.9	93.5	0.142	46.9
11	1,2,3,4,7,8-HxCDF	3.81e5	1.22	NO	0.88	1.000	33.60	1.000	52.5	105	0.230	52.5
12	1,2,3,6,7,8-HxCDF	3.46e5	1.24	NO	0.87	1.000	33.73	1.001	50.2	100	0.238	50.2
13	2,3,4,6,7,8-HxCDF	3.22e5	1.20	NO	0.92	1.000	34.29	1.000	51.7	103	0.258	51.7
14	1,2,3,7,8,9-HxCDF	2.13e5	1.23	NO	0.86	1.000	35.16	1.000	50.9	102	0.496	50.9
15	1,2,3,4,6,7,8-HpCDF	2.21e5	1.00	NO	0.87	1.000	36.91	1.000	52.5	105	0.359	52.5
16	1,2,3,4,7,8,9-HpCDF	1.20e5	1.03	NO	1.01	1.000	38.93	1.001	52.5	106	0.606	52.5
17	OCDF	1.93e5	0.88	NO	0.89	1.000	41.50	1.000	101	101	0.338	101

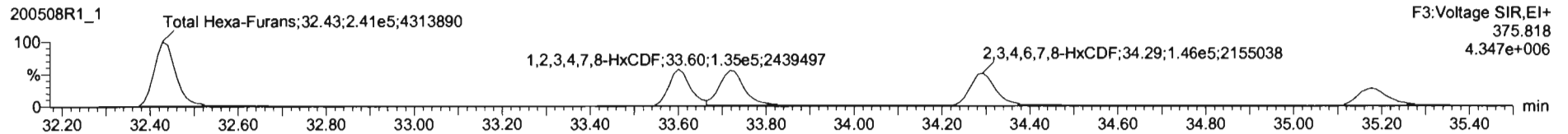
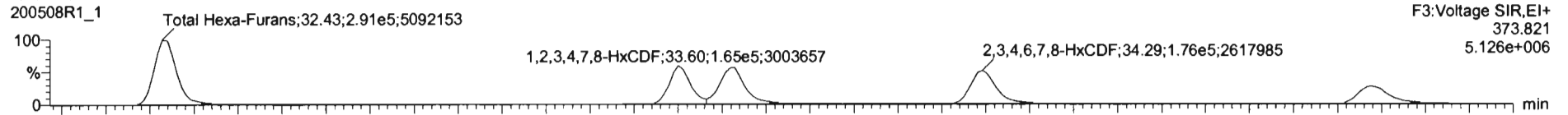


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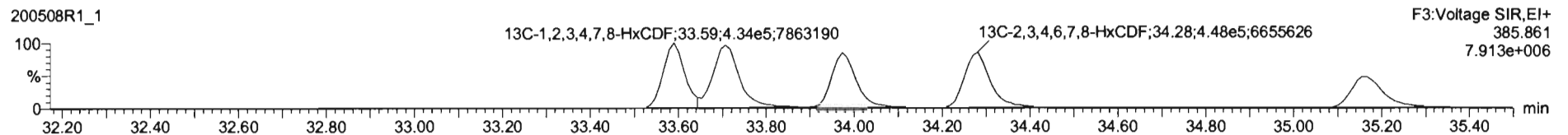
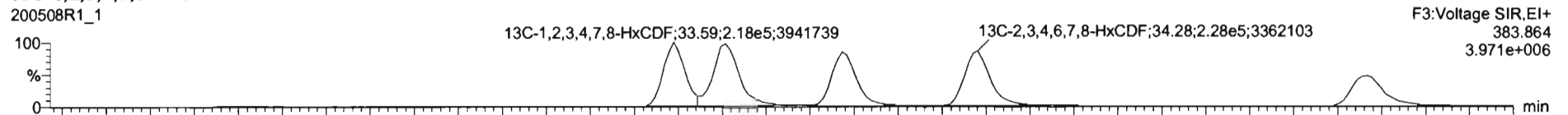
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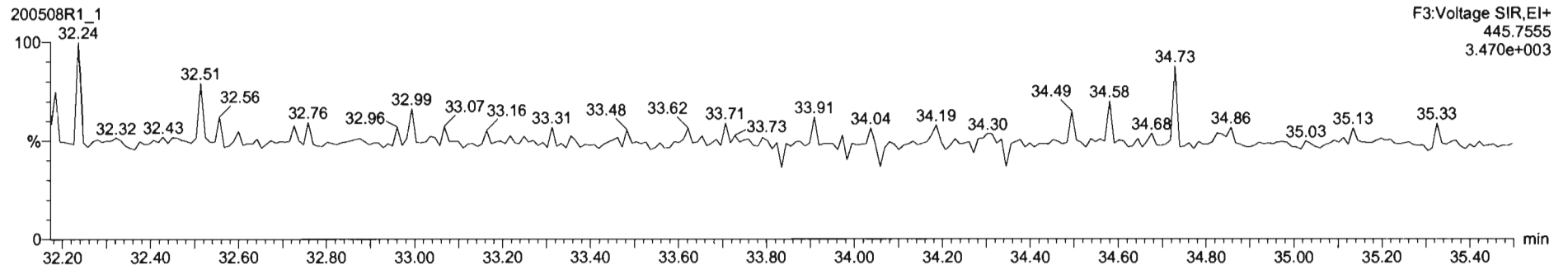
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13C-1,2,3,4,7,8-HxCDF



DPE3



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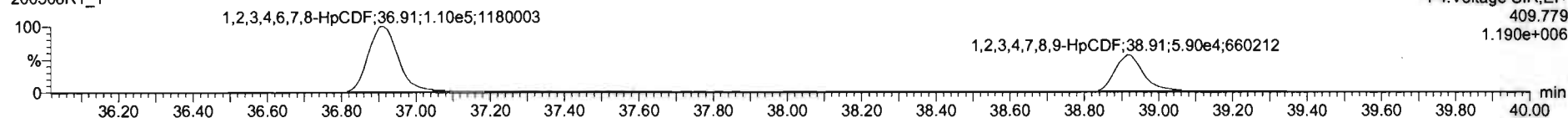
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200508R1_1



200508R1_1

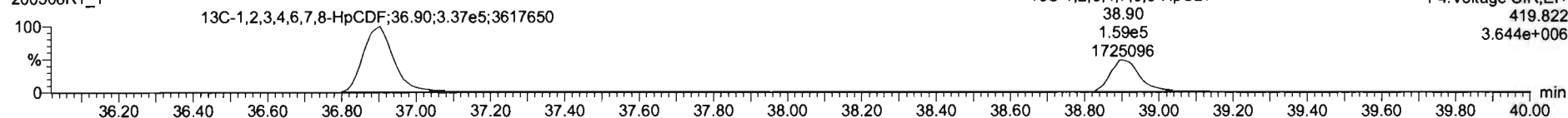


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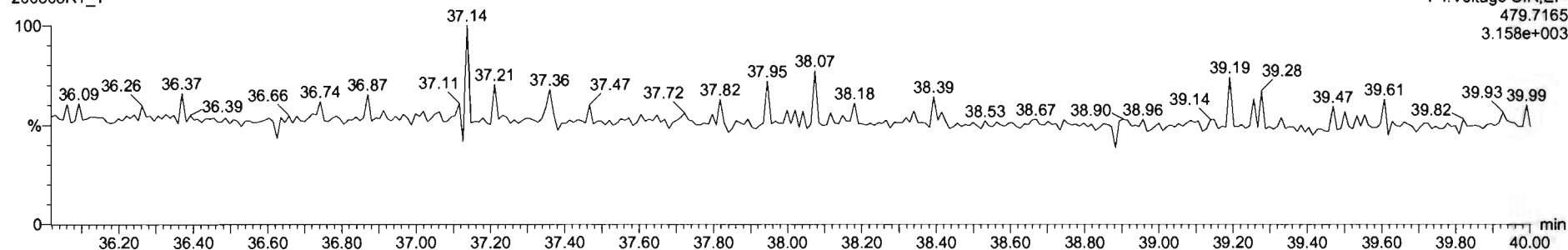


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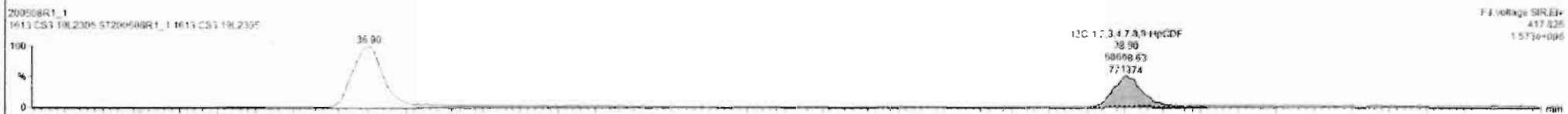


DPE4

200508R1_1



#	Name	Resp	S Resp	Pred RA	RA	ely	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	WRec	STD out
8	2,3,7,8-TCDF	1.04e5	1.41e5	0.77	0.74	NO	0.7871	25.96	25.95	NO	1.001	1.001	9.40	94.8	NO
9	1,2,3,7,8-PeCDF	4.83e5	1.11e6	1.55	1.53	NO	0.9162	28.77	29.77	NO	1.001	1.001	48.0	96.8	NO
10	2,3,4,7,8-PeCDF	4.73e5	1.04e6	1.55	1.53	NO	0.9664	30.77	30.77	NO	1.001	1.001	46.8	92.8	NO
11	1,2,3,4,7,8-HxCDF	3.01e5	6.52e5	1.24	1.22	NO	0.8782	33.59	33.62	NO	1.000	1.000	52.5	105	NO
12	1,2,3,6,7,8-HxCDF	3.46e5	7.90e5	1.24	1.24	NO	0.8740	33.72	33.73	NO	1.000	1.001	50.2	100	NO
13	2,3,4,6,7,8-HxCDF	3.22e5	6.76e5	1.24	1.20	NO	0.9017	34.32	34.29	NO	1.001	1.000	51.7	103	NO
14	1,2,3,7,8,9-HxCDF	2.15e5	4.86e5	1.24	1.23	NO	0.8642	35.17	35.18	NO	1.000	1.000	50.9	102	NO
15	1,2,3,4,6,7,8-HpCDF	2.21e5	4.82e5	1.04	1.00	NO	0.8712	36.94	36.91	NO	1.001	1.000	52.9	105	NO
16	1,2,3,4,7,8,9-HpCDF	1.16e5	2.32e5	1.04	1.00	NO	1.0116	38.00	38.93	NO	1.000	1.001	46.3	98.3	NO
17	OCDF	1.85e5	4.18e5	0.69	0.87	NO	0.8821	41.46	41.50	NO	1.000	1.000	96.8	96.8	NO
18	1,3C-2,3,7,8-TCDD	1.13e6	9.31e5	0.77	0.75	NO	1.1565	25.97	25.97	NO	1.026	1.027	105	105	NO
19	1,3C-1,2,3,7,8-PeCDD	8.01e5	9.31e5	0.83	0.82	NO	0.8472	31.05	31.06	NO	1.227	1.228	102	102	NO
20	1,3C-1,2,3,4,7,8-HxCDD	4.60e5	6.24e5	1.24	1.26	NO	0.7495	34.45	34.45	NO	1.014	1.014	103	103	NO
21	1,3C-1,2,3,6,7,8-HxCDD	6.52e5	6.24e5	1.24	1.27	NO	0.9630	34.56	34.55	NO	1.017	1.017	105	105	NO
22	1,3C-1,2,3,7,8,9-HxCDD	5.71e5	6.24e5	1.24	1.23	NO	0.8376	34.82	34.83	NO	1.025	1.025	105	105	NO
23	1,3C-1,2,3,4,6,7,8-HpCDD	3.95e5	6.24e5	1.04	1.03	NO	0.8415	36.32	36.32	NO	1.128	1.128	98.8	98.8	NO
24	1,3C-OCDD	5.62e5	6.24e5	0.88	0.89	NO	0.5863	41.31	41.31	NO	1.216	1.216	154	78.6	NO



Custom Reporting: Select reports to generate

200508R1_1 CAP NUM

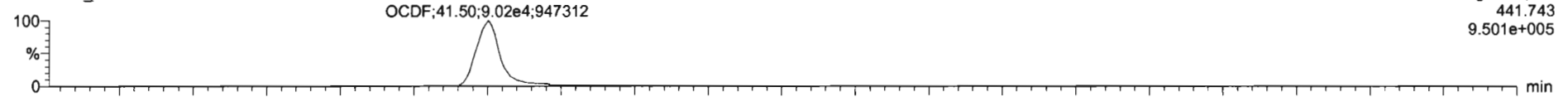
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Printed: Friday, May 08, 2020 8:56:41 AM Pacific Daylight Time

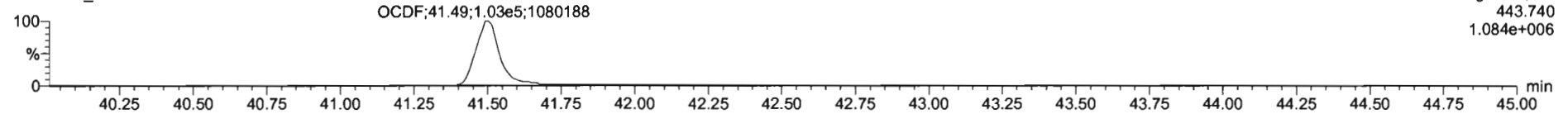
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OCDF

200508R1_1

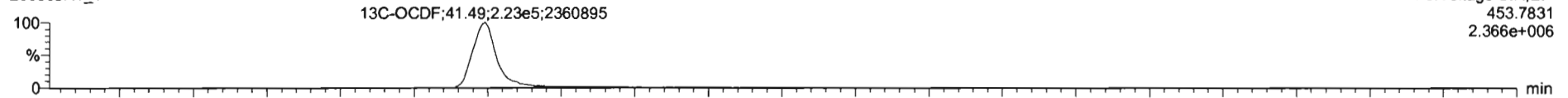


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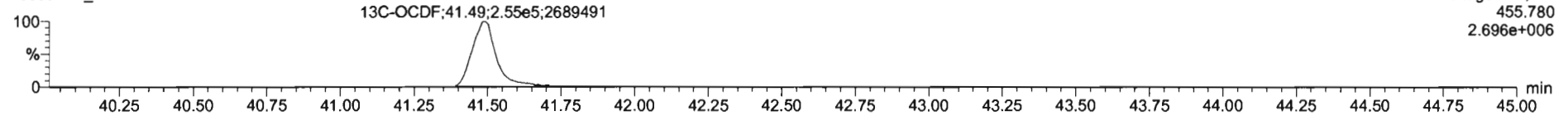


13C-OCDF

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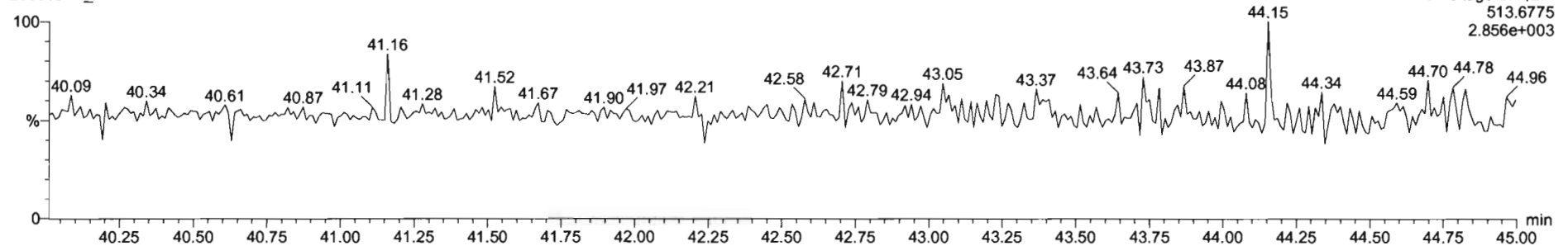


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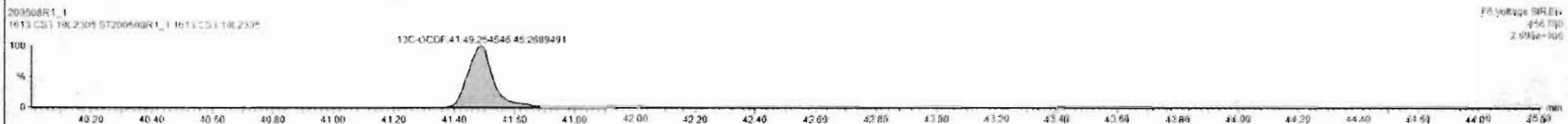
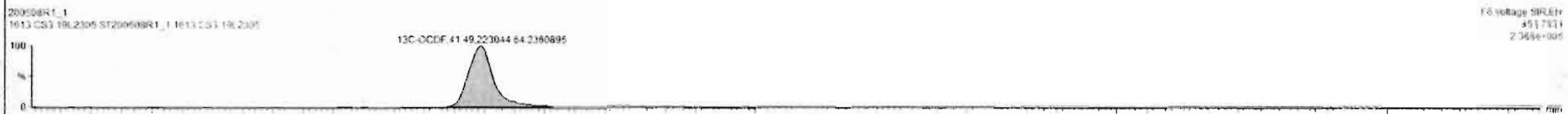


DPE5

200508R1_1



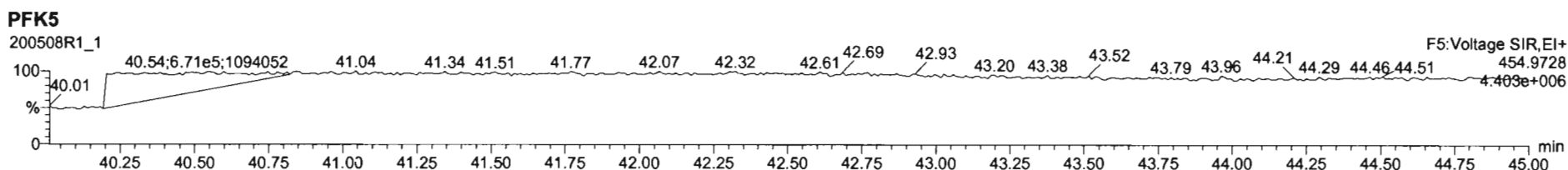
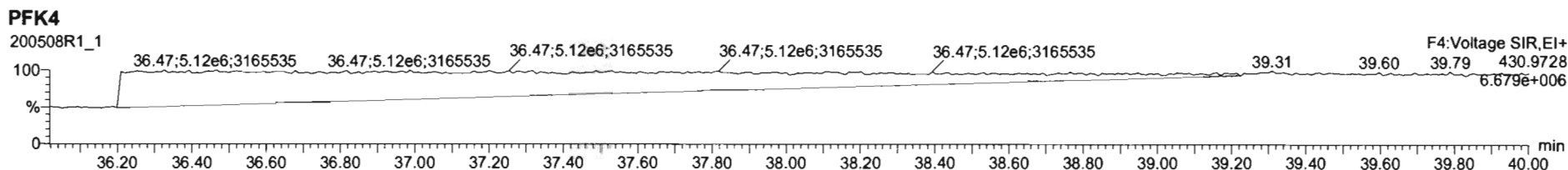
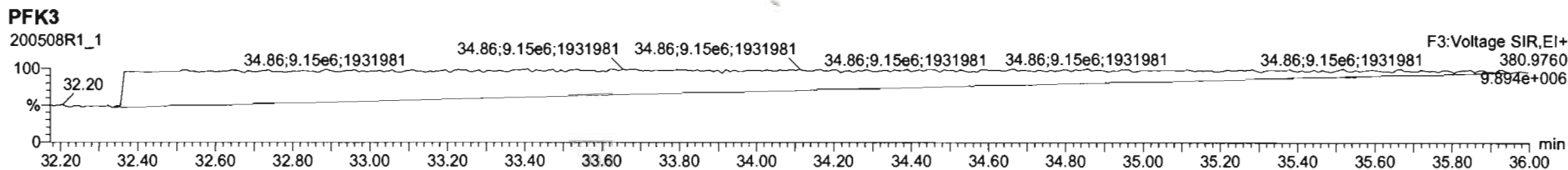
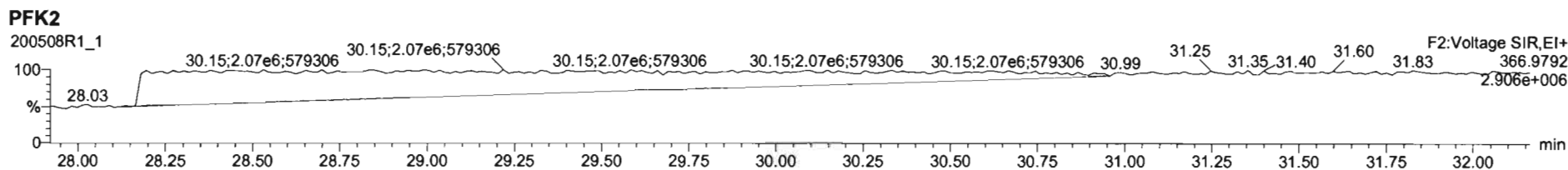
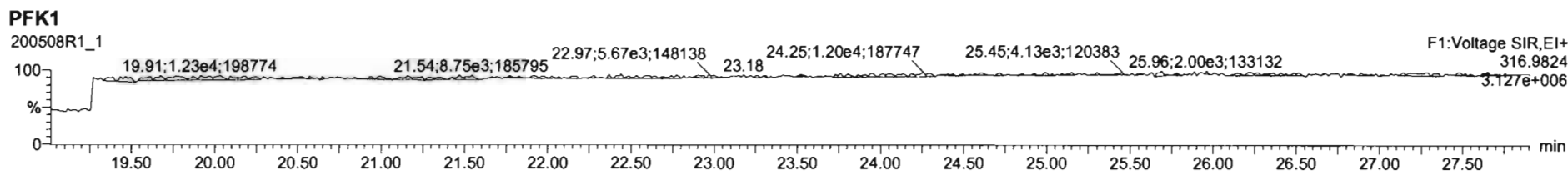
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2	1.2.3.7.8-PeCDD	3.48e5	0.62	NO	0.94	1.000	31.08	1.000	46.2	92.5	0.102	46.2
3	1.2.3.4.7.8-HxCDD	2.38e5	1.22	NO	1.06	1.000	34.46	1.000	46.6	93.1	0.252	46.6
4	1.2.3.6.7.8-HxCDD	2.84e5	1.25	NO	0.91	1.000	34.96	1.000	47.8	95.2	0.253	47.8
5	1.2.3.7.8.9-HxCDD	2.40e5	1.25	NO	0.91	1.000	34.84	1.000	47.1	94.3	0.267	47.1
6	1.2.3.4.6.7.8-HxCDD	1.70e5	1.02	NO	0.99	1.000	38.34	1.001	47.8	95.5	0.512	47.9
7	OCDD	2.51e5	0.87	NO	0.93	1.000	41.32	1.000	95.7	95.7	0.299	95.7
8	2.3.7.6-TCDF	1.04e5	0.74	NO	0.79	1.000	25.05	1.001	9.40	94.0	0.0764	9.40
9	1.2.3.7.8-PeCDF	4.83e5	1.55	NO	0.91	1.000	29.77	1.001	48.0	98.0	0.143	48.0
10	2.3.4.7.8-PeCDF	4.73e5	1.53	NO	0.97	1.000	30.77	1.001	46.9	93.8	0.142	46.9
11	1.2.3.4.7.8-HxCDF	3.01e5	1.32	NO	0.88	1.000	33.60	1.000	52.5	105	0.230	52.5
12	1.2.3.6.7.8-HxCDF	3.40e5	1.24	NO	0.87	1.000	33.73	1.001	50.2	100	0.236	50.2
13	2.3.4.6.7.8-HxCDF	7.22e5	1.20	NO	0.92	1.000	34.29	1.000	51.7	103	0.259	51.7
14	1.2.3.7.8.9-HxCDF	2.13e5	1.23	NO	0.86	1.000	35.18	1.000	50.9	102	0.499	50.9
15	1.2.3.4.6.7.8-HpCDF	2.21e5	1.00	NO	0.87	1.000	36.91	1.000	52.5	105	0.359	52.5
16	1.2.3.4.7.8.9-HpCDF	1.16e5	1.00	NO	1.01	1.000	38.93	1.001	50.9	102	0.608	50.9
17	OCDF	1.85e5	0.87	NO	0.60	1.000	41.50	1.000	95.0	95.0	0.338	95.0



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Printed: Friday, May 08, 2020 8:56:41 AM Pacific Daylight Time

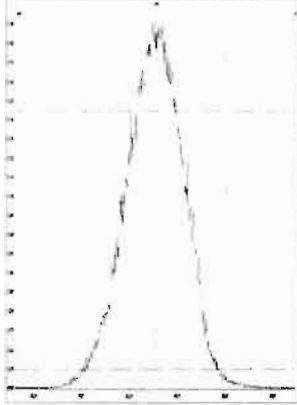
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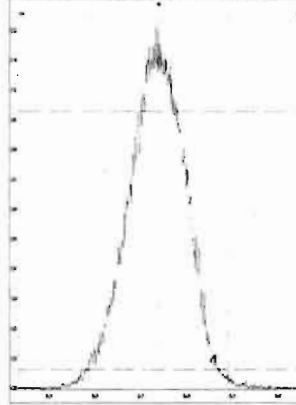
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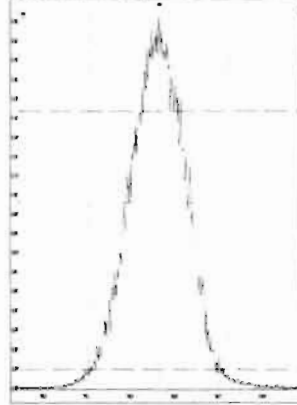
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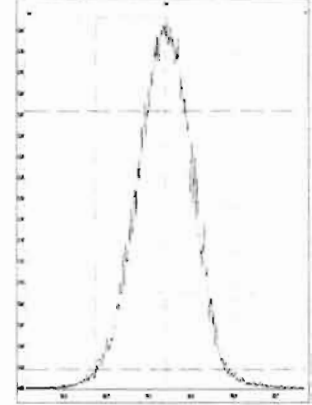
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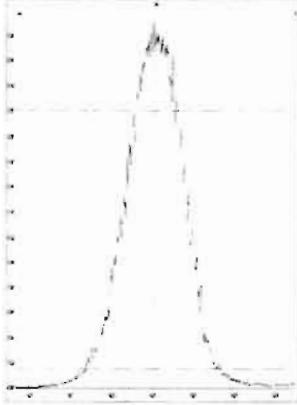
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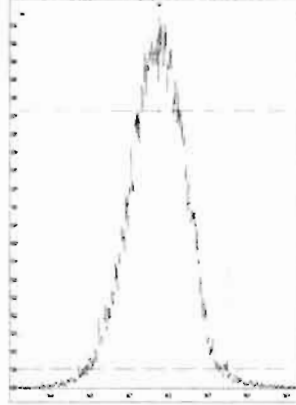
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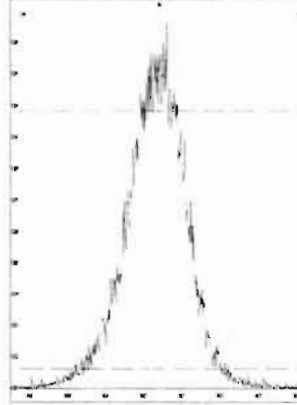
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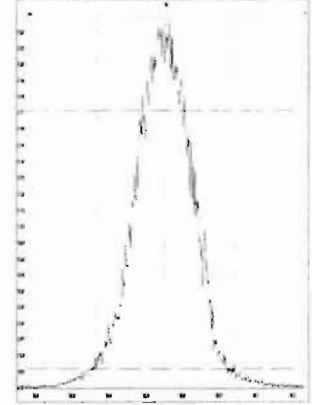
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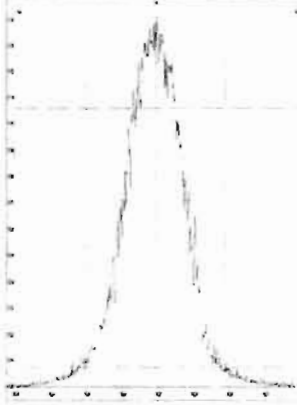
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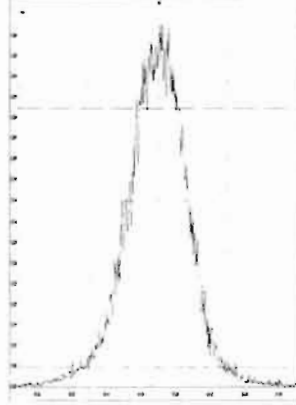
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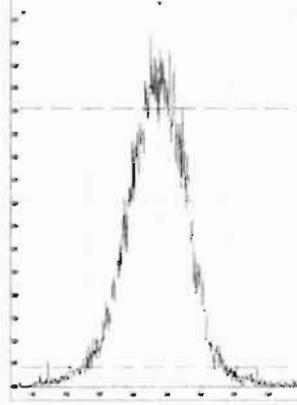
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M 404.9760 R 10080



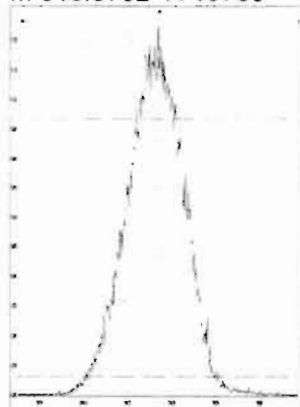
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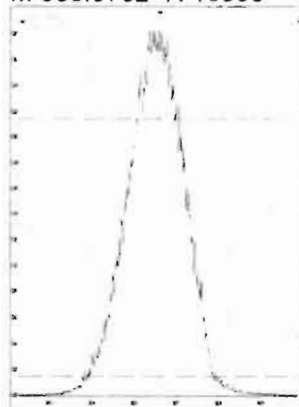
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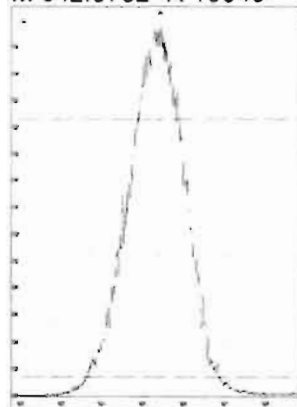
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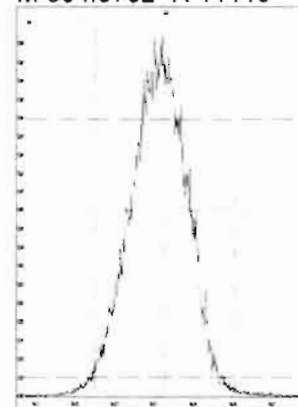
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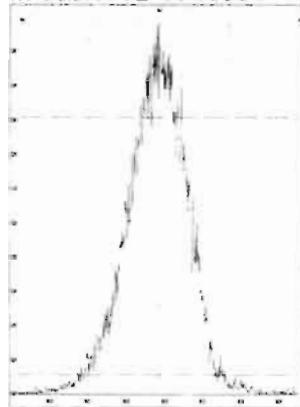
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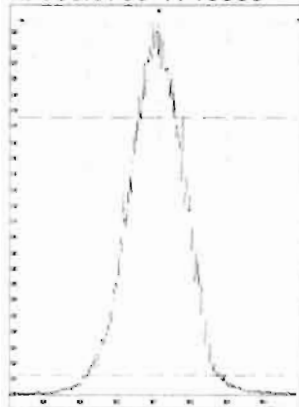
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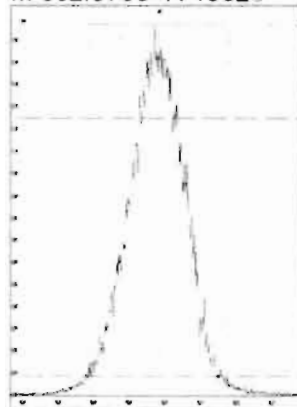
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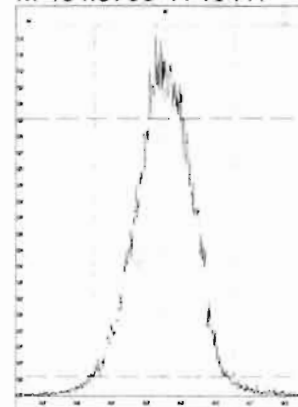
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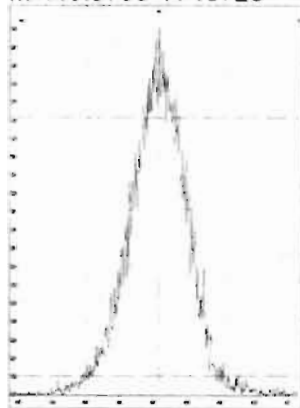
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M 404.9760 R 10417



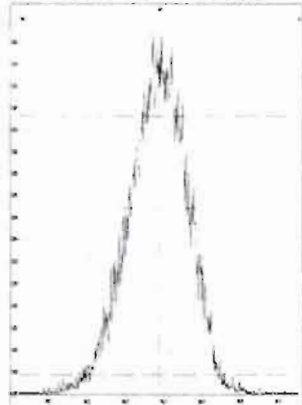
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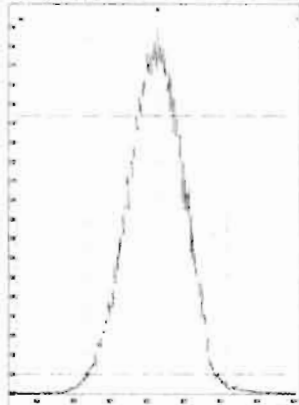
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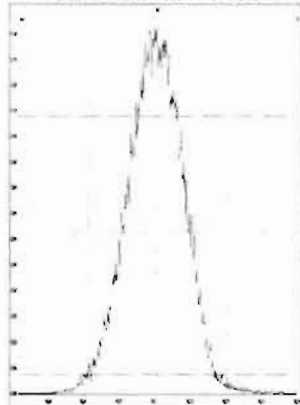
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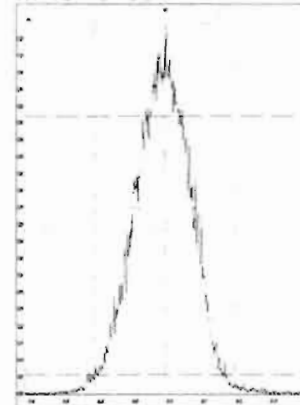
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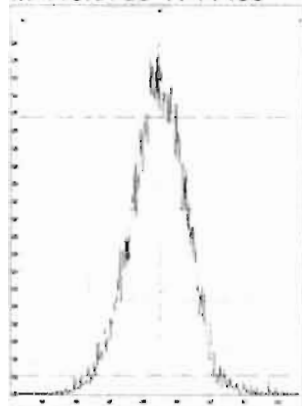
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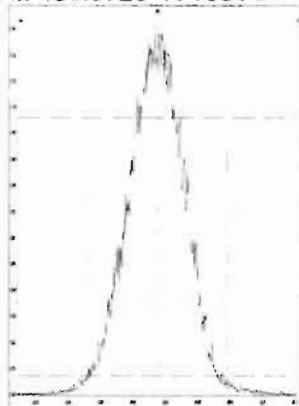
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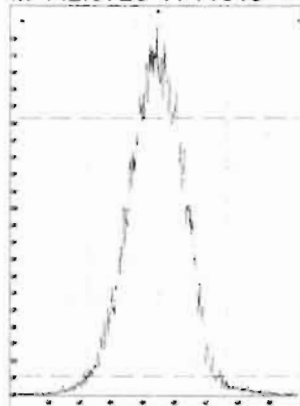
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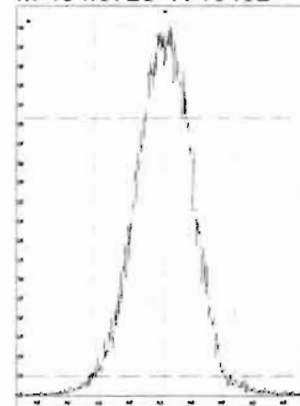
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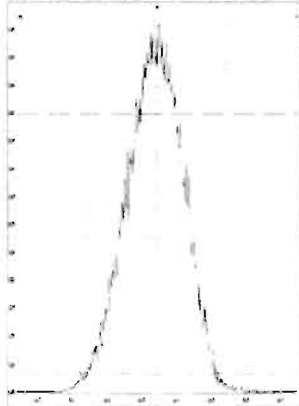
M 454.9728 R 10462



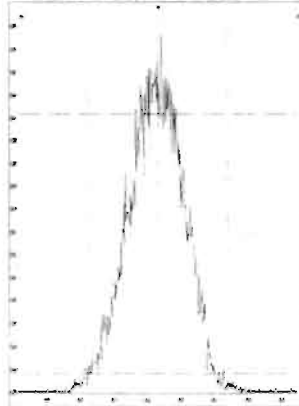
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, May 08, 2020 13:43:34 Pacific Daylight Time

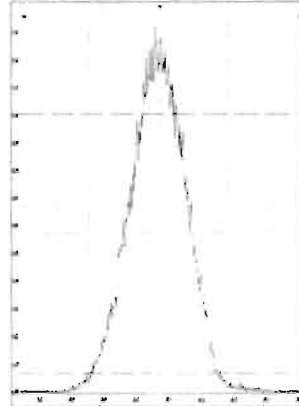
M 404.9760 R 10962



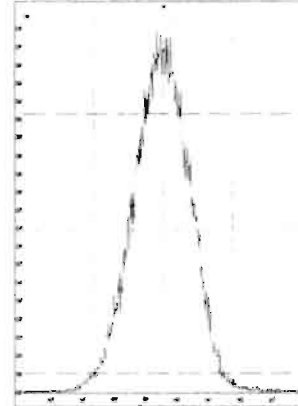
M 416.9760 R 10917



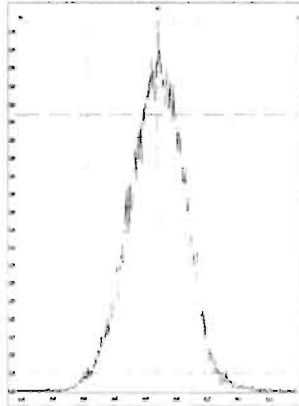
M 430.9728 R 11011



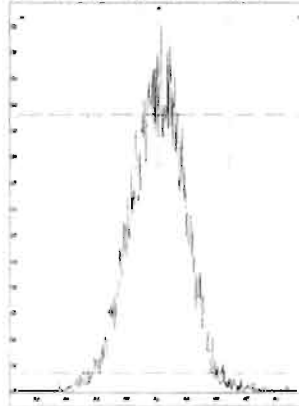
M 442.9728 R 11211



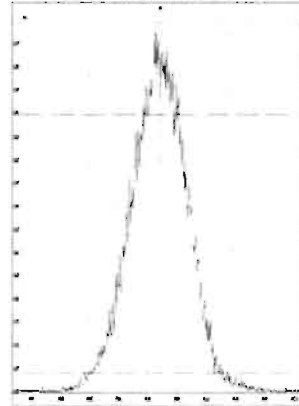
M 454.9728 R 10920



M 466.9728 R 11364



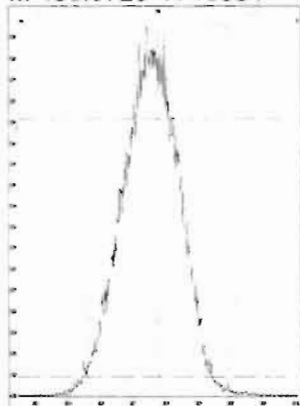
M 480.9696 R 10548



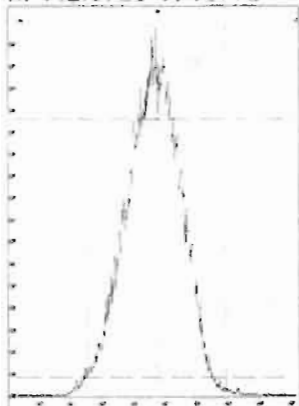
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, May 08, 2020 13:44:07 Pacific Daylight Time

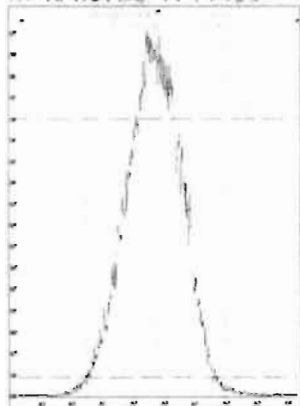
M 430.9728 R 10684



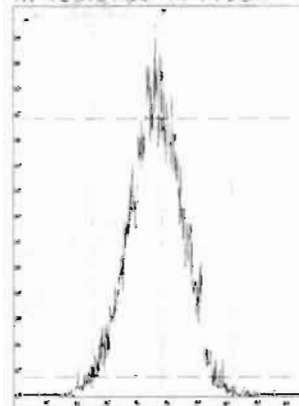
M 442.9728 R 10778



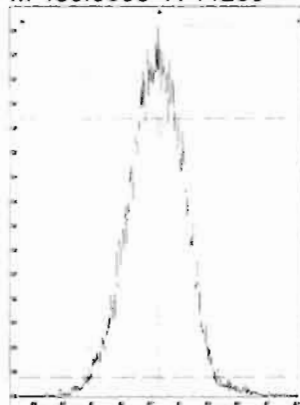
M 454.9728 R 11468



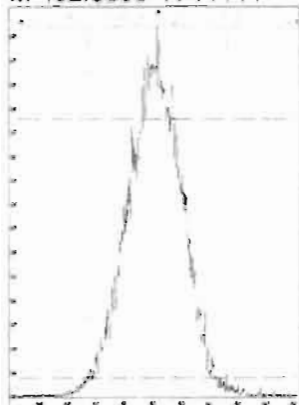
M 466.9728 R 11904



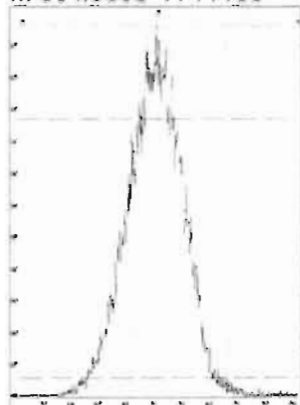
M 480.9696 R 11259



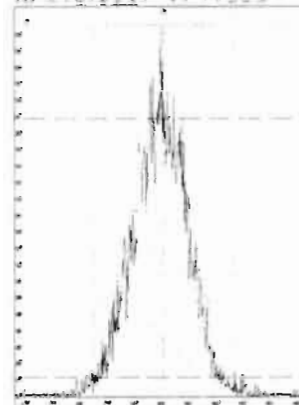
M 492.9696 R 11111



M 504.9696 R 11159



M 516.9697 R 11683



Dataset: U:\VG12.PRO\Results\200518R2\200518R2-2.qld

Last Altered: Monday, May 18, 2020 15:37:05 Pacific Daylight Time

Printed: Monday, May 18, 2020 15:37:20 Pacific Daylight Time

GPB 05/18/2020

CTW/19/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2_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	1.54e5	1.73e6	0.76	NO	0.947	26.07	26.05	NO	1.001	1.001	9.4118	94.1	NO
2	2 1,2,3,7,8-PeCDD	5.75e5	1.33e6	0.62	NO	0.942	31.13	31.14	NO	1.001	1.001	45.791	91.6	NO
3	3 1,2,3,4,7,8-HxCDD	4.82e5	9.02e5	1.23	NO	1.06	34.51	34.51	NO	1.000	1.000	50.254	101	NO
4	4 1,2,3,6,7,8-HxCDD	5.23e5	1.23e6	1.22	NO	0.915	34.60	34.61	NO	1.000	1.000	46.665	93.3	NO
5	5 1,2,3,7,8,9-HxCDD	4.62e5	1.05e6	1.24	NO	0.915	34.88	34.89	NO	1.000	1.001	48.148	96.3	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.55e5	8.20e5	1.04	NO	0.898	38.38	38.39	NO	1.000	1.001	48.222	96.4	NO
7	7 OCDD	6.77e5	1.48e6	0.88	NO	0.933	41.35	41.36	NO	1.000	1.000	98.196	98.2	NO
8	8 2,3,7,8-TCDF	1.74e5	2.26e6	0.74	NO	0.787	25.12	25.12	NO	1.001	1.001	9.7799	97.8	NO
9	9 1,2,3,7,8-PeCDF	8.38e5	1.89e6	1.55	NO	0.910	29.82	29.81	NO	1.001	1.001	48.623	97.2	NO
10	10 2,3,4,7,8-PeCDF	8.55e5	1.84e6	1.54	NO	0.966	30.84	30.82	NO	1.001	1.000	48.051	96.1	NO
11	11 1,2,3,4,7,8-HxCDF	5.76e5	1.22e6	1.21	NO	0.878	33.63	33.64	NO	1.000	1.000	53.959	108	NO
12	12 1,2,3,6,7,8-HxCDF	6.58e5	1.44e6	1.21	NO	0.874	33.76	33.76	NO	1.000	1.000	52.309	105	NO
13	13 2,3,4,6,7,8-HxCDF	6.16e5	1.27e6	1.22	NO	0.922	34.36	34.33	NO	1.001	1.000	52.850	106	NO
14	14 1,2,3,7,8,9-HxCDF	4.66e5	1.03e6	1.24	NO	0.864	35.22	35.23	NO	1.000	1.000	52.428	105	NO
15	15 1,2,3,4,6,7,8-HpCDF	4.49e5	9.70e5	1.01	NO	0.871	36.98	36.97	NO	1.001	1.001	53.131	106	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.47e5	6.34e5	0.98	NO	1.01	38.96	38.97	NO	1.000	1.000	54.091	108	NO
17	17 OCDF	7.32e5	1.75e6	0.87	NO	0.802	41.53	41.56	NO	1.000	1.001	104.54	105	NO
18	18 13C-2,3,7,8-TCDD	1.73e6	1.47e6	0.78	NO	1.16	26.02	26.03	NO	1.026	1.027	101.21	101	NO
19	19 13C-1,2,3,7,8-PeCDD	1.33e6	1.47e6	0.63	NO	0.847	31.10	31.11	NO	1.227	1.227	107.06	107	NO
20	20 13C-1,2,3,4,7,8-HxCDD	9.02e5	1.27e6	1.28	NO	0.750	34.50	34.49	NO	1.014	1.014	94.701	94.7	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.23e6	1.27e6	1.27	NO	0.963	34.61	34.60	NO	1.017	1.017	100.27	100	NO
22	22 13C-1,2,3,7,8,9-HxCDD	1.05e6	1.27e6	1.26	NO	0.838	34.88	34.87	NO	1.025	1.025	98.603	98.6	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.20e5	1.27e6	1.04	NO	0.641	38.37	38.37	NO	1.128	1.128	100.74	101	NO
24	24 13C-OCDD	1.48e6	1.27e6	0.90	NO	0.586	41.36	41.35	NO	1.216	1.216	198.45	99.2	NO
25	25 13C-2,3,7,8-TCDF	2.26e6	2.12e6	0.78	NO	1.03	25.07	25.09	NO	0.989	0.990	103.25	103	NO
26	26 13C-1,2,3,7,8-PeCDF	1.89e6	2.12e6	1.57	NO	0.845	29.79	29.80	NO	1.176	1.176	105.88	106	NO
27	27 13C-2,3,4,7,8-PeCDF	1.84e6	2.12e6	1.59	NO	0.814	30.79	30.81	NO	1.215	1.215	106.88	107	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.22e6	1.27e6	0.51	NO	1.00	33.64	33.63	NO	0.989	0.989	95.255	95.3	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.44e6	1.27e6	0.51	NO	1.14	33.76	33.75	NO	0.992	0.992	99.709	99.7	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.27e6	1.27e6	0.51	NO	1.02	34.33	34.33	NO	1.009	1.009	97.476	97.5	NO
31	31 13C-1,2,3,7,8,9-HxCDF	1.03e6	1.27e6	0.51	NO	0.845	35.22	35.22	NO	1.035	1.035	95.978	96.0	NO

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-2.qld

Last Altered: Monday, May 18, 2020 15:37:05 Pacific Daylight Time

Printed: Monday, May 18, 2020 15:37:20 Pacific Daylight Time

Sample ID: ST Name: 200518R2_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2_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	9.70e5	1.27e6	0.44	NO	0.771	36.95	36.94	NO	1.086	1.086	99.100	99.1	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.34e5	1.27e6	0.44	NO	0.482	38.96	38.96	NO	1.145	1.145	103.53	104	NO
34	34 13C-OCDF	1.75e6	1.27e6	0.90	NO	0.669	41.53	41.53	NO	1.221	1.221	205.78	103	NO
35	35 37Cl-2,3,7,8-TCDD	1.61e5	1.47e6			1.10	26.05	26.05	NO	1.028	1.028	9.9794	99.8	NO
36	36 13C-1,2,3,4-TCDD	1.47e6	1.47e6	0.79	NO	1.00	25.35	25.35	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	2.12e6	2.12e6	0.79	NO	1.00	23.56	23.58	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.27e6	1.27e6	0.51	NO	1.00	34.00	34.02	NO	1.000	1.000	100.00	100	YES

Dataset: Untitled

Last Altered: Tuesday, May 19, 2020 07:23:54 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:24:09 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

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

	Name	ID	Acq.Date	Acq.Time
1	200518R2_1	SOLVENT BLANK	18-May-20	14:00:16
2	200518R2_2	ST200518R2_1 1613 CS3 19L2305	18-May-20	14:46:59
3	200518R2_3	B0E0079-BS1 OPR 10	18-May-20	15:35:11
4	200518R2_4	SOLVENT BLANK	18-May-20	16:21:26
5	200518R2_5	B0E0079-BLK1 Method Blank 10	18-May-20	17:07:38
6	200518R2_6	2000950-06 PDI-156SC-A-04-05-200423 11.04	18-May-20	17:53:49
7	200518R2_7	2000950-07 PDI-156SC-A-05-06-200423 11.02	18-May-20	18:40:00
8	200518R2_8	2000950-08 PDI-156SC-A-06-07-200423 11.7	18-May-20	19:26:14
9	200518R2_9	2000950-09 PDI-156SC-A-07-08-200423 12.81	18-May-20	20:12:24
10	200518R2_10	2000950-10 PDI-158SC-A-00-01-200423 12.88	18-May-20	20:58:36
11	200518R2_11	2000950-11 PDI-158SC-A-01-02-200423 11.36	18-May-20	21:44:47
12	200518R2_12	2000950-12 PDI-158SC-A-02-03-200423 12.52	18-May-20	22:30:59
13	200518R2_13	2000950-13 PDI-158SC-A-03-04-200423 12.06	18-May-20	23:17:11
14	200518R2_14	2000953-02RE1 PDI-165SC-A-01-02-200426 ...	19-May-20	00:03:23
15	200518R2_15	2000953-03RE1 PDI-165SC-A-02-03-200426 ...	19-May-20	00:49:34
16	200518R2_16	2000951-03RE1 PDI-159SC-A-01-02-200423 ...	19-May-20	01:35:46
17	200518R2_17	2000933-03RE4 PDI-154SC-A-01-02-200422 ...	19-May-20	02:21:57

Dataset: Untitled

Last Altered: Monday, May 18, 2020 15:33:53 Pacific Daylight Time

Printed: Monday, May 18, 2020 15:34:18 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.87
2	2 1,2,8,9-TCDD (Last)	27.04
3	3 1,2,4,7,9-PeCDD (First)	28.88
4	4 1,2,3,8,9-PeCDD (Last)	31.52
5	5 1,2,4,6,7,9-HxCDD (First)	33.03
6	6 1,2,3,7,8,9-HxCDD (Last)	34.89
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.35
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.39
9	9 1,3,6,8-TCDF (First)	19.81
10	10 1,2,8,9-TCDF (Last)	27.19
11	11 1,3,4,6,8-PeCDF (First)	27.16
12	12 1,2,3,8,9-PeCDF (Last)	31.77
13	13 1,2,3,4,6,8-HxCDF (First)	32.47
14	14 1,2,3,7,8,9-HxCDF (Last)	35.23
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.97
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.97

Dataset: Untitled

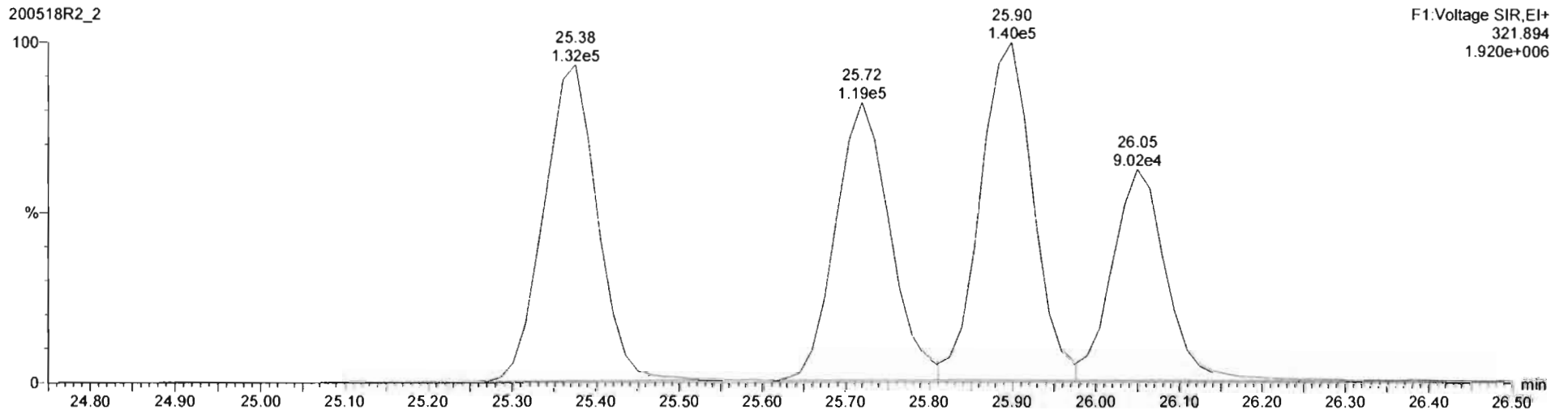
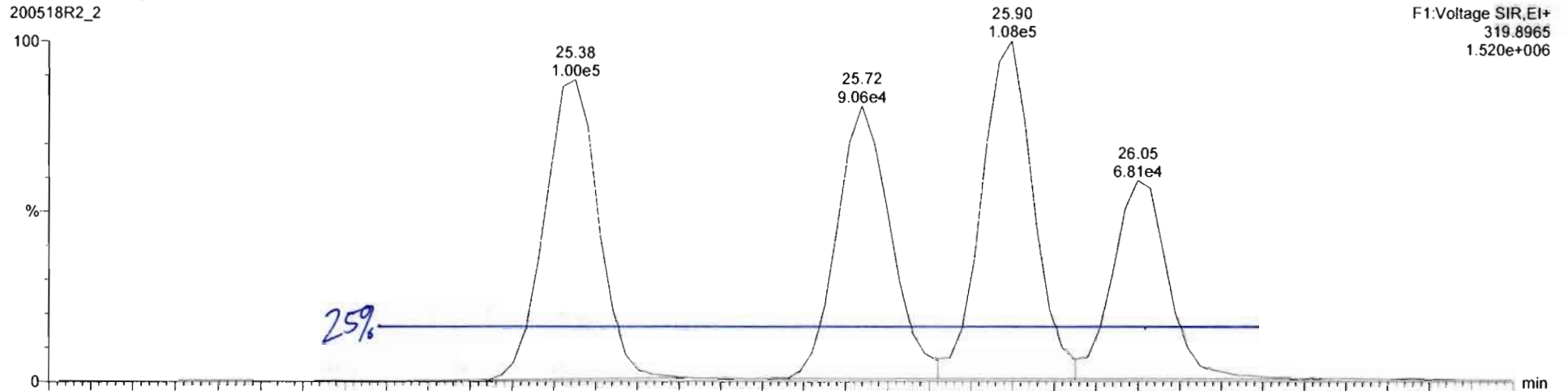
Last Altered: Monday, May 18, 2020 15:33:53 Pacific Daylight Time
Printed: Monday, May 18, 2020 15:34:18 Pacific Daylight Time

GRB 05/18/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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



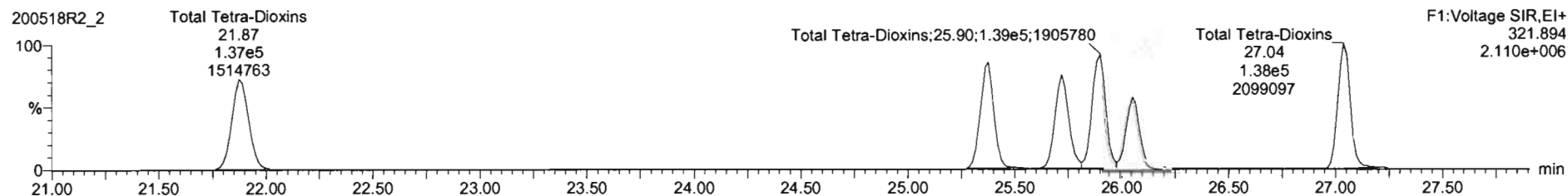
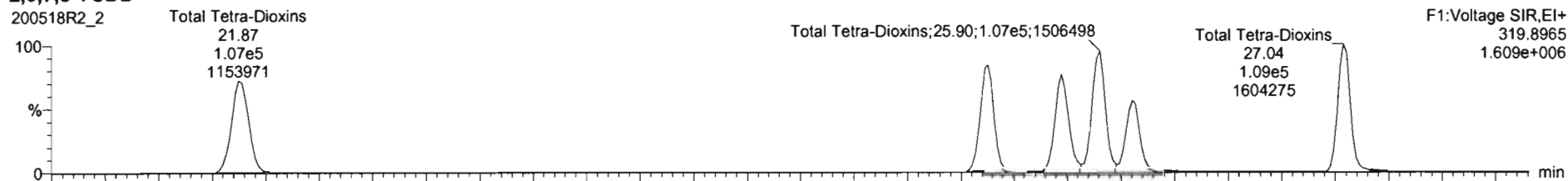
Dataset: Untitled

Last Altered: Monday, May 18, 2020 15:34:39 Pacific Daylight Time
Printed: Monday, May 18, 2020 15:34:42 Pacific Daylight Time

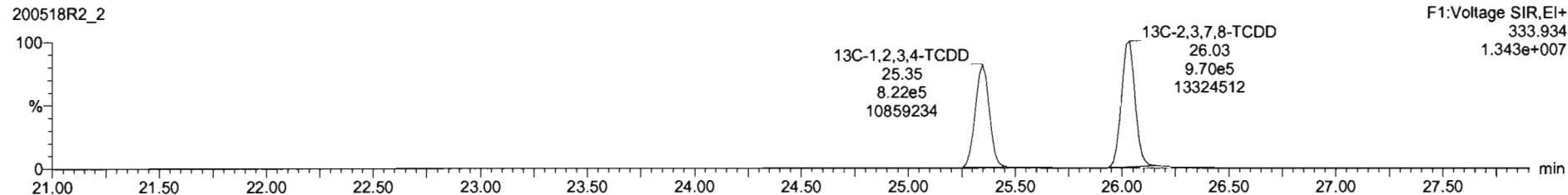
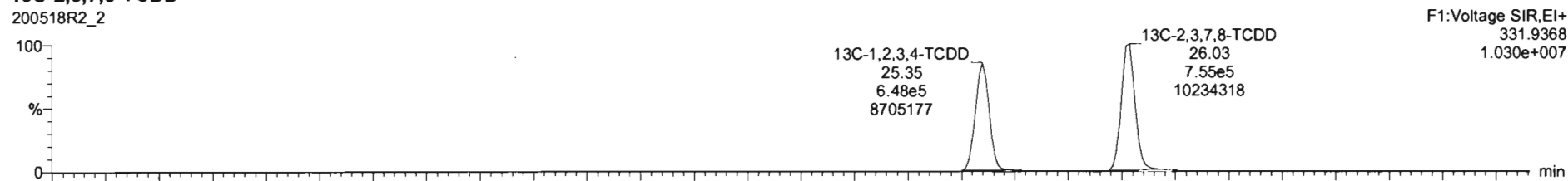
Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



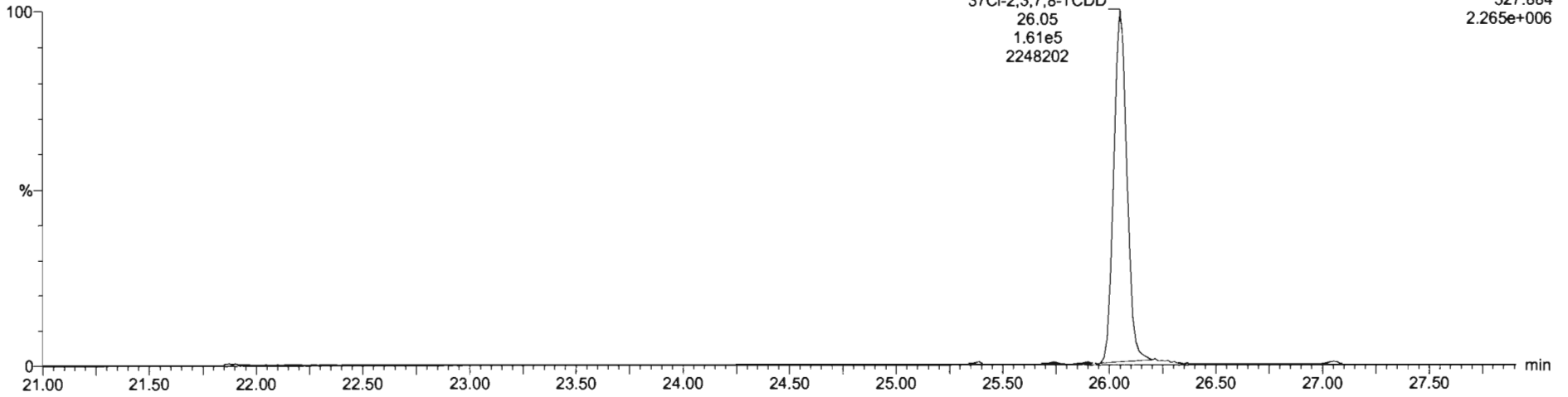
Dataset: Untitled

Last Altered: Monday, May 18, 2020 15:34:39 Pacific Daylight Time
Printed: Monday, May 18, 2020 15:34:42 Pacific Daylight Time

Name: 200518R2_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

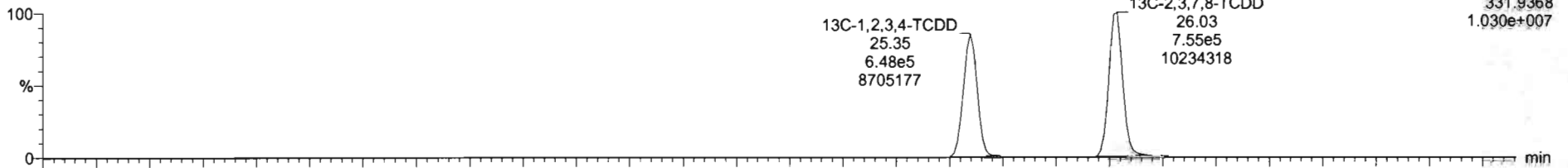
37Cl-2,3,7,8-TCDD

200518R2_2

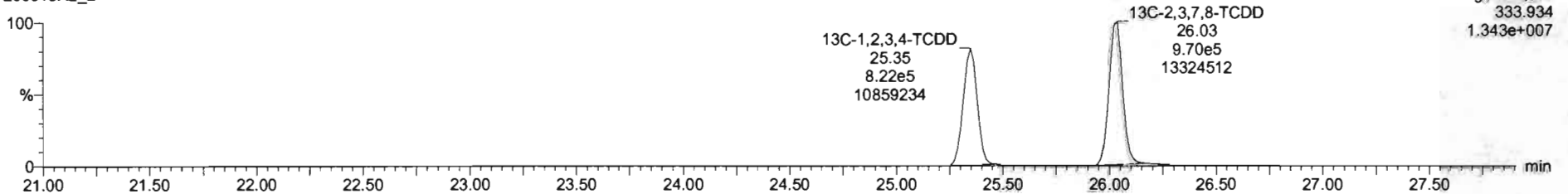


13C-1,2,3,4-TCDD

200518R2_2



200518R2_2



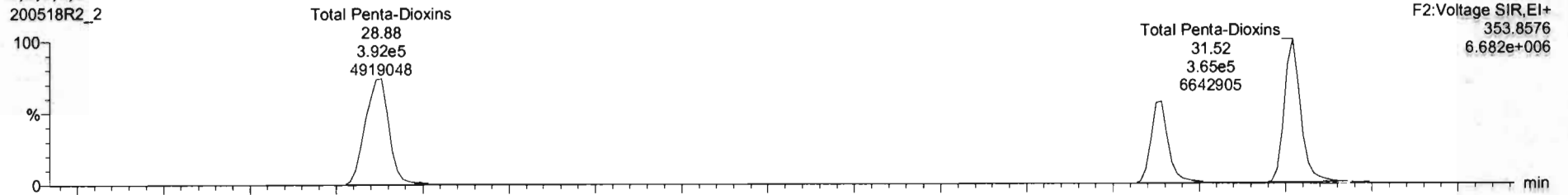
Dataset: Untitled

Last Altered: Monday, May 18, 2020 15:34:39 Pacific Daylight Time
Printed: Monday, May 18, 2020 15:34:42 Pacific Daylight Time

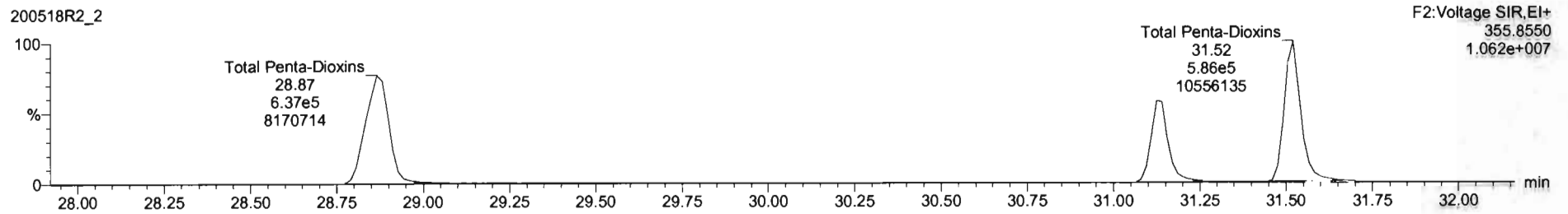
Name: 200518R2_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200518R2_2

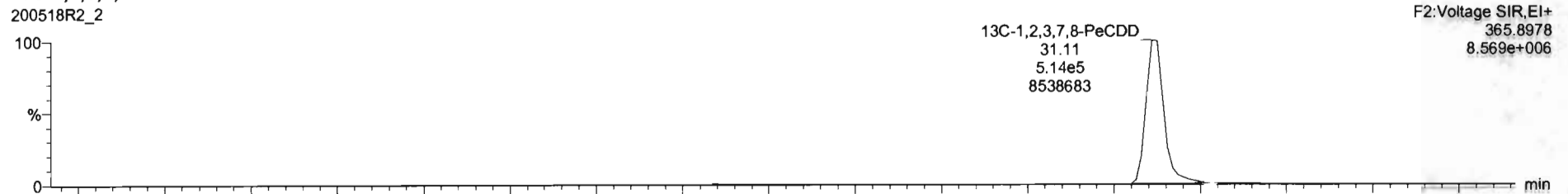


200518R2_2

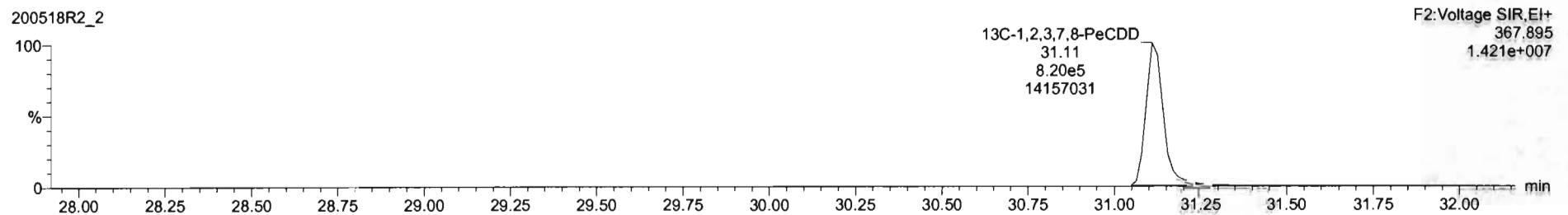


13C-1,2,3,7,8-PeCDD

200518R2_2



200518R2_2



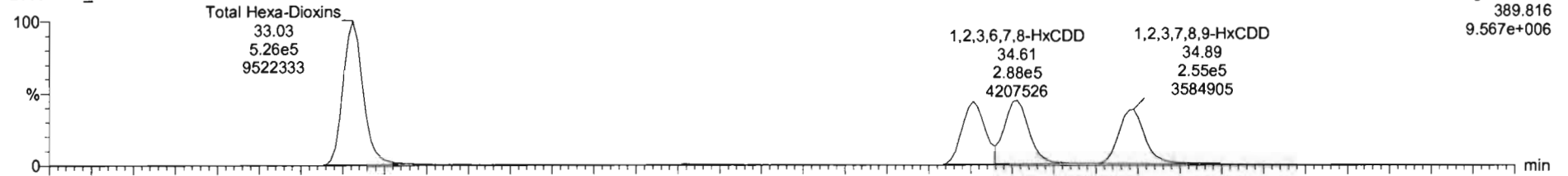
Dataset: Untitled

Last Altered: Monday, May 18, 2020 15:34:39 Pacific Daylight Time
Printed: Monday, May 18, 2020 15:34:42 Pacific Daylight Time

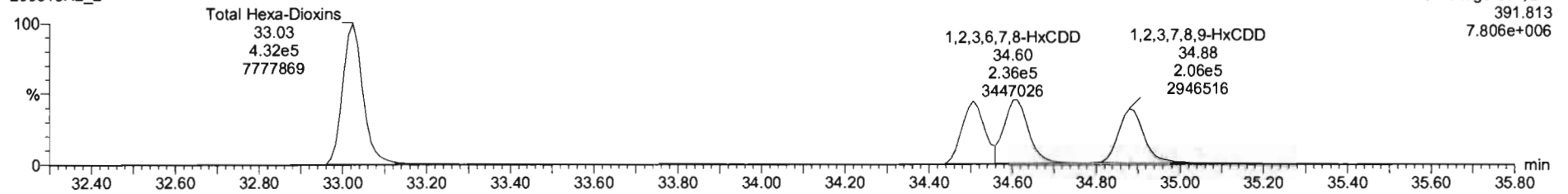
Name: 200518R2_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200518R2_2

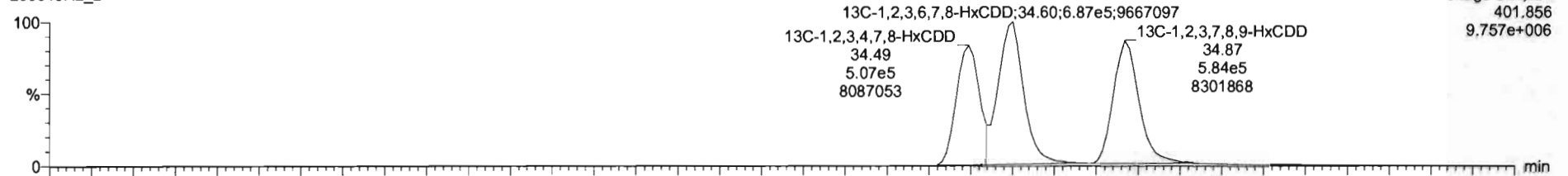


200518R2_2

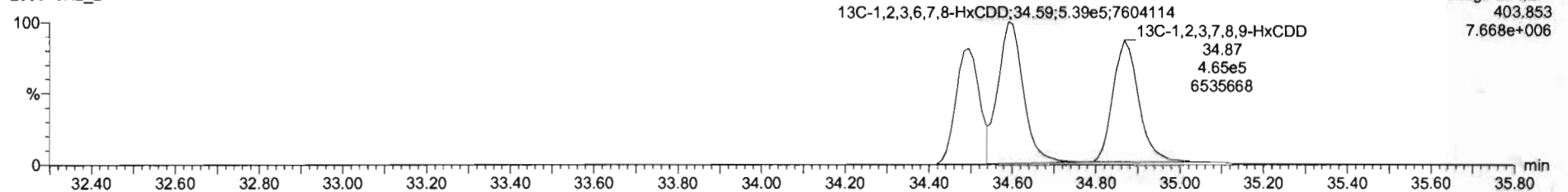


13C-1,2,3,4,7,8-HxCDD

200518R2_2



200518R2_2



Dataset: Untitled

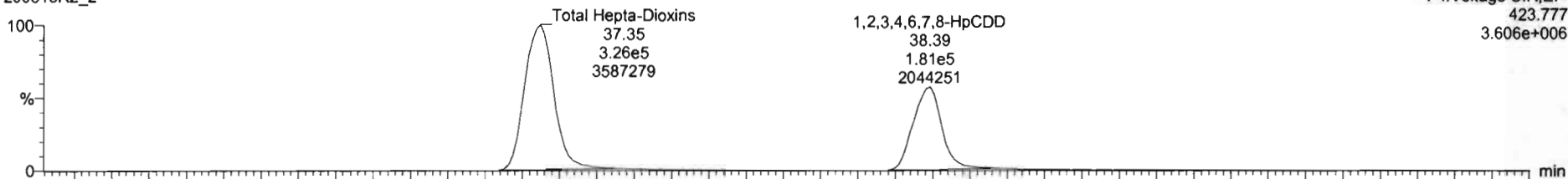
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Printed: Monday, May 18, 2020 15:34:42 Pacific Daylight Time

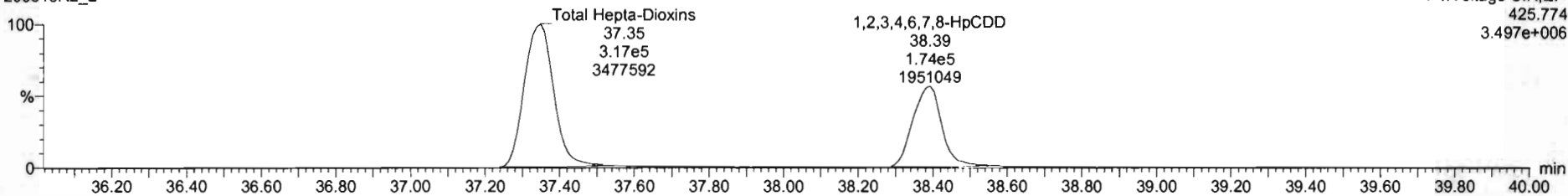
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1,2,3,4,6,7,8-HpCDD

200518R2_2

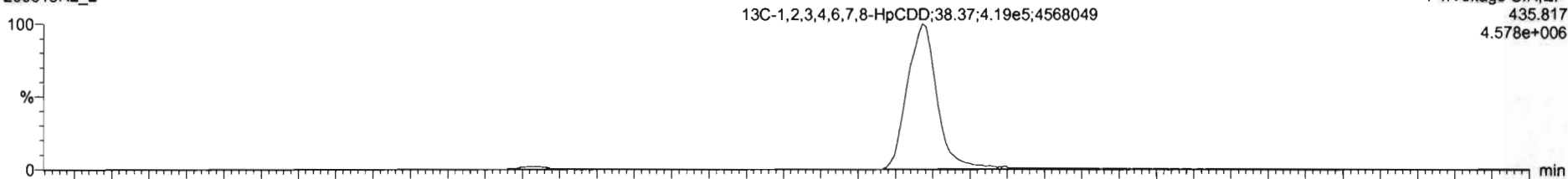


200518R2_2

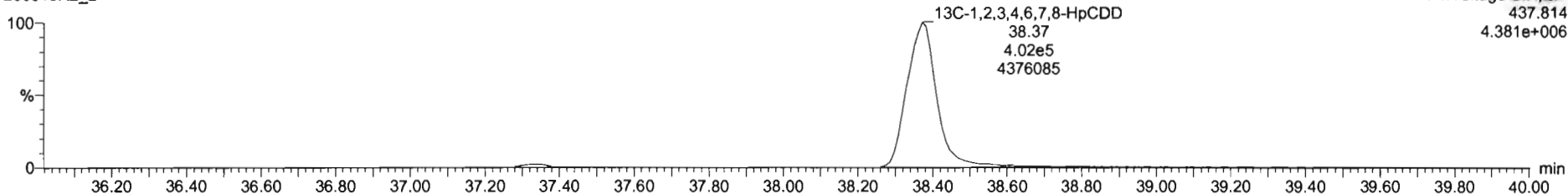


13C-1,2,3,4,6,7,8-HpCDD

200518R2_2



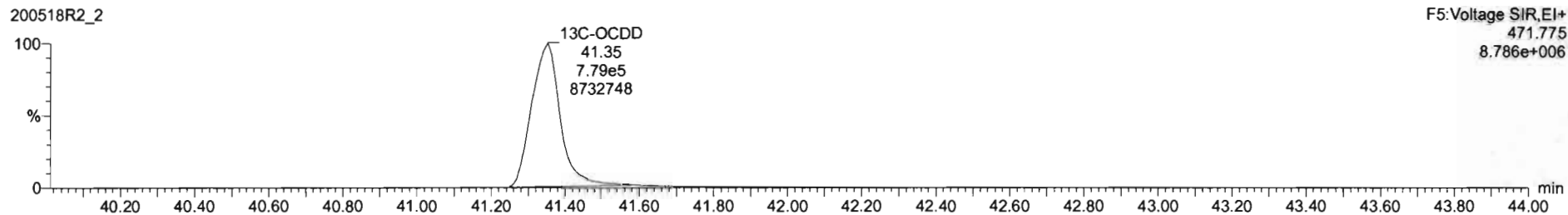
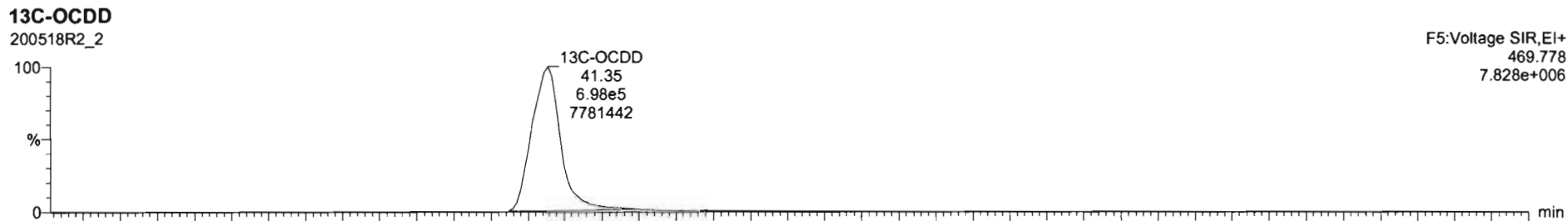
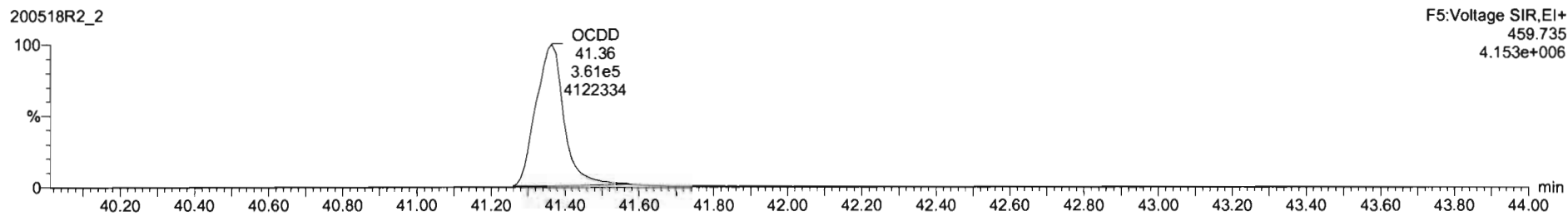
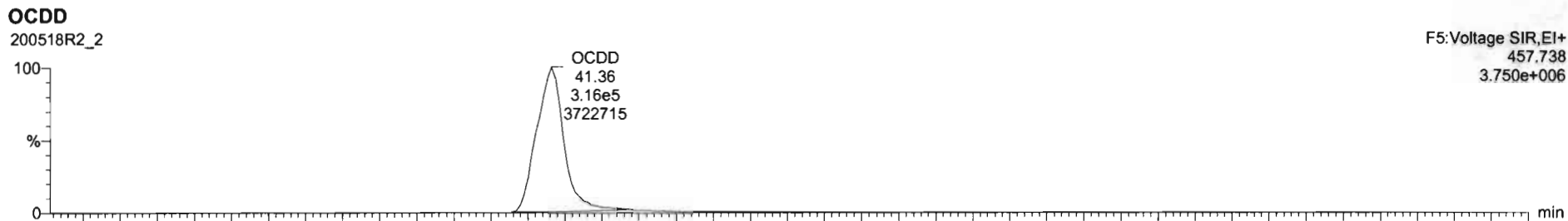
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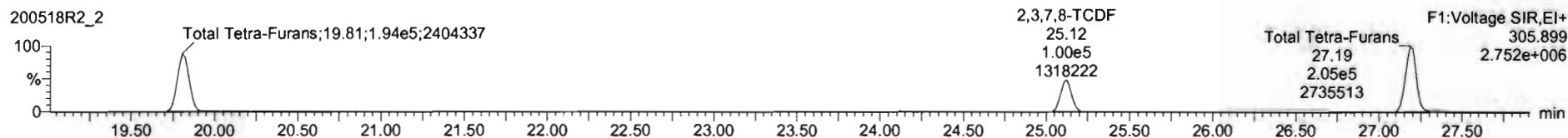
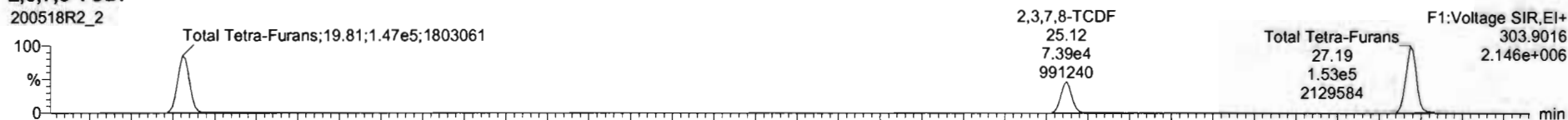


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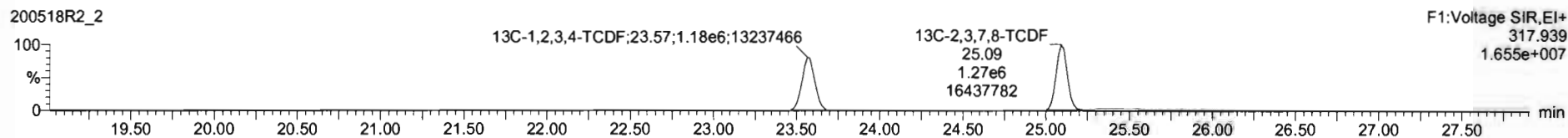
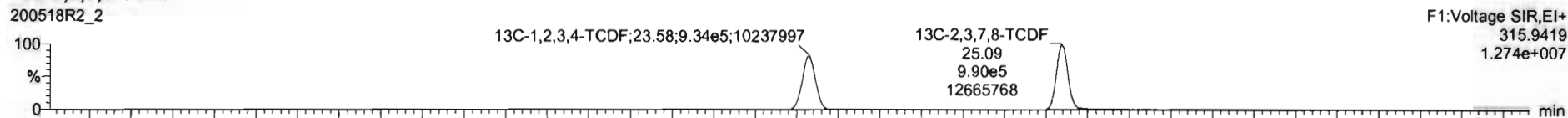
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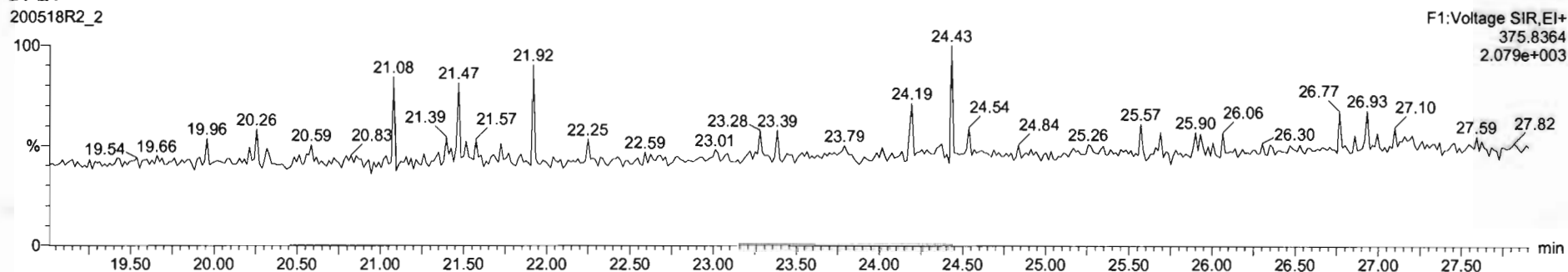
2,3,7,8-TCDF



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



DPE1



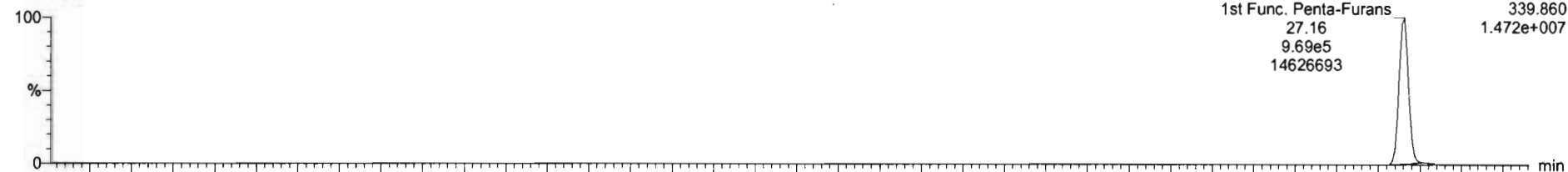
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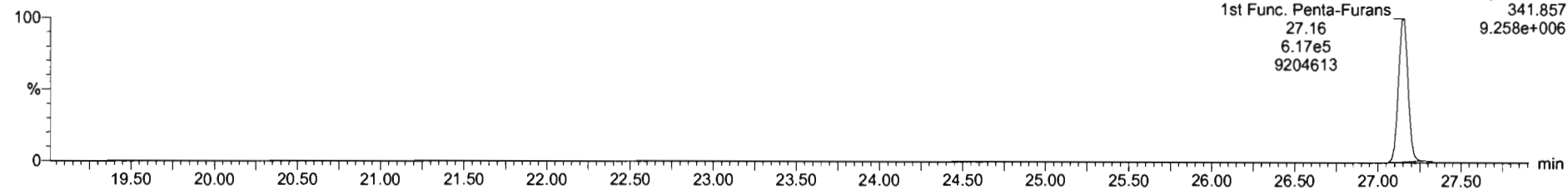
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1st Func. Penta-Furans

200518R2_2

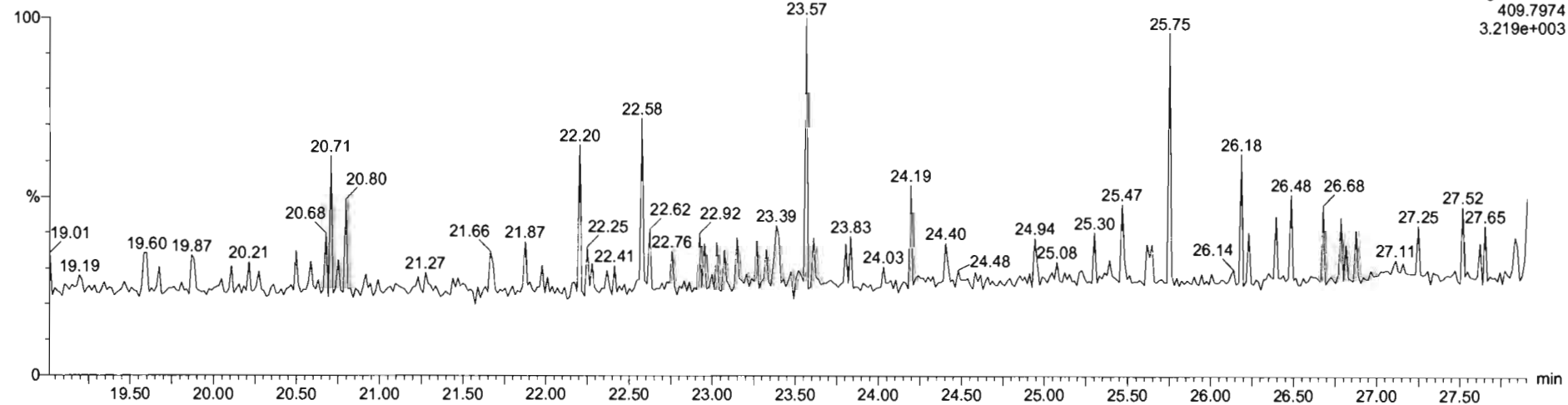


200518R2_2



DPE6

200518R2_2



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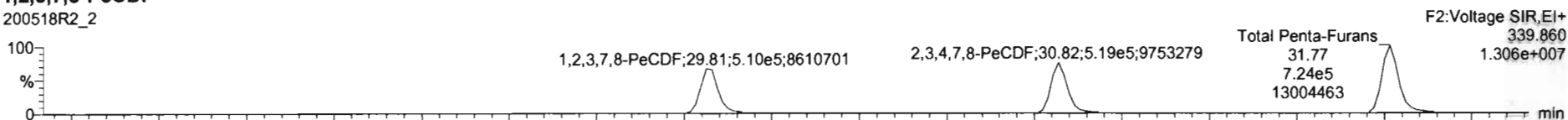
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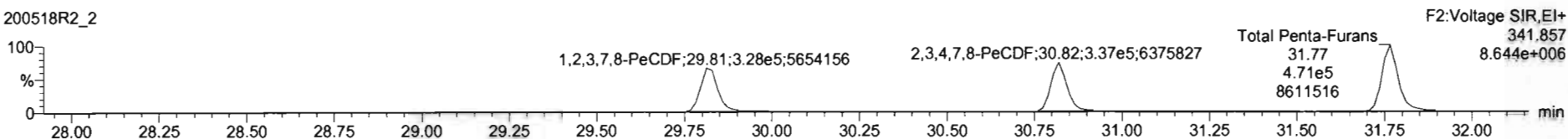
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1,2,3,7,8-PeCDF

200518R2_2

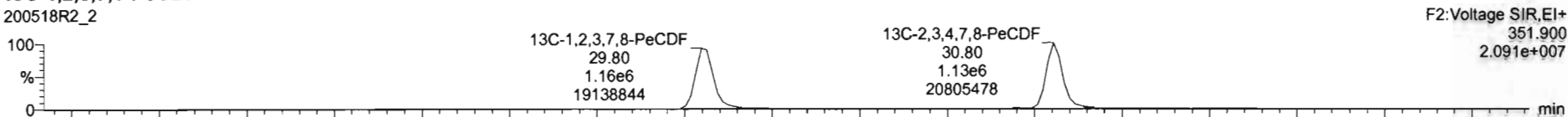


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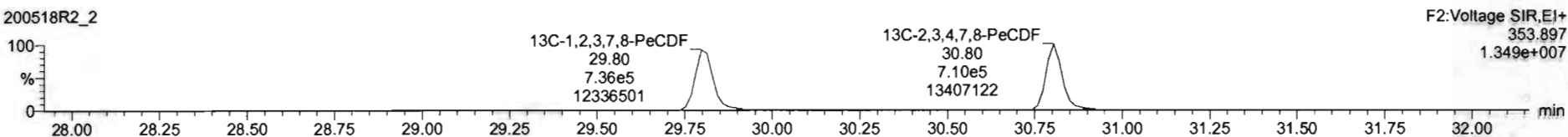


13C-1,2,3,7,8-PeCDF

200518R2_2

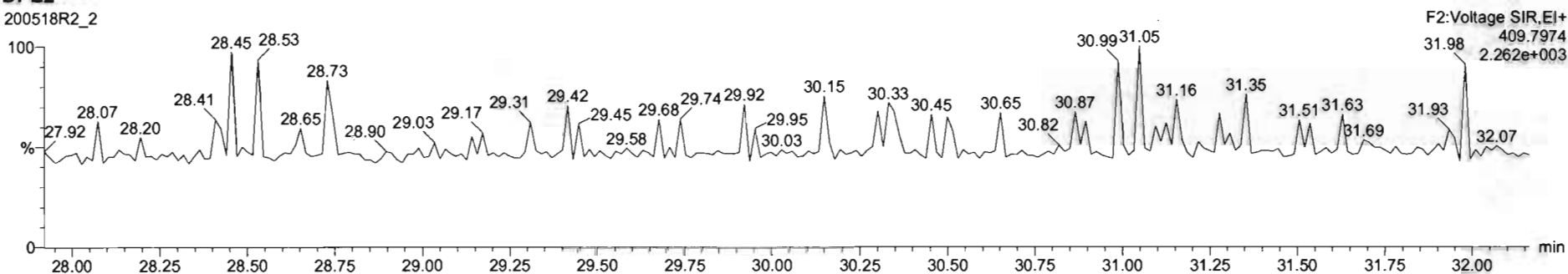


200518R2_2



DPE2

200518R2_2



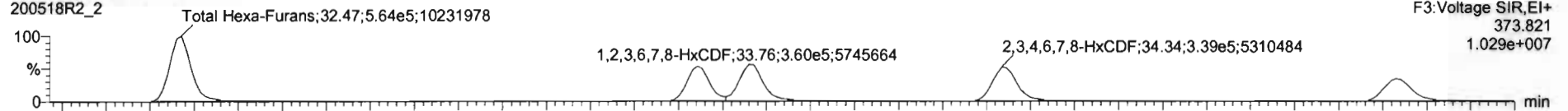
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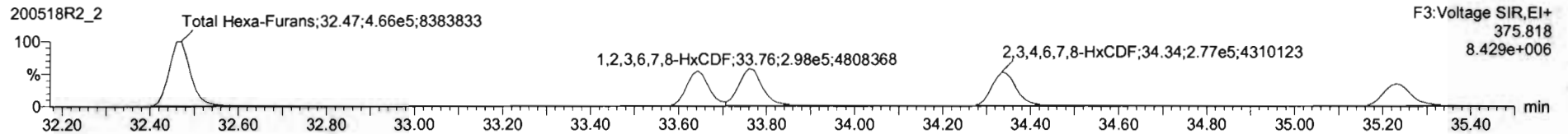
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1,2,3,4,7,8-HxCDF

200518R2_2

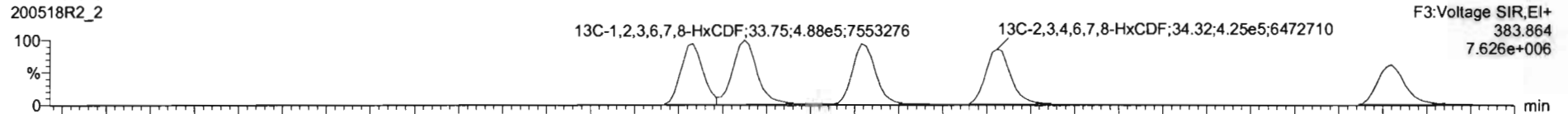


200518R2_2

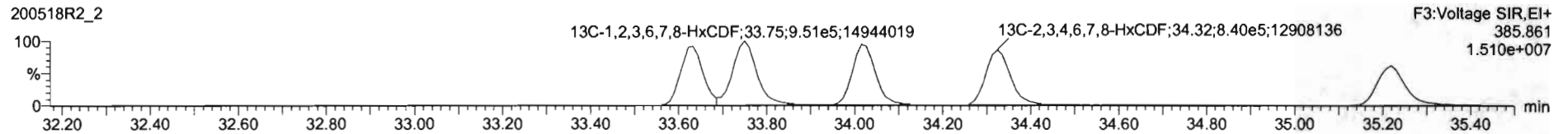


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200518R2_2

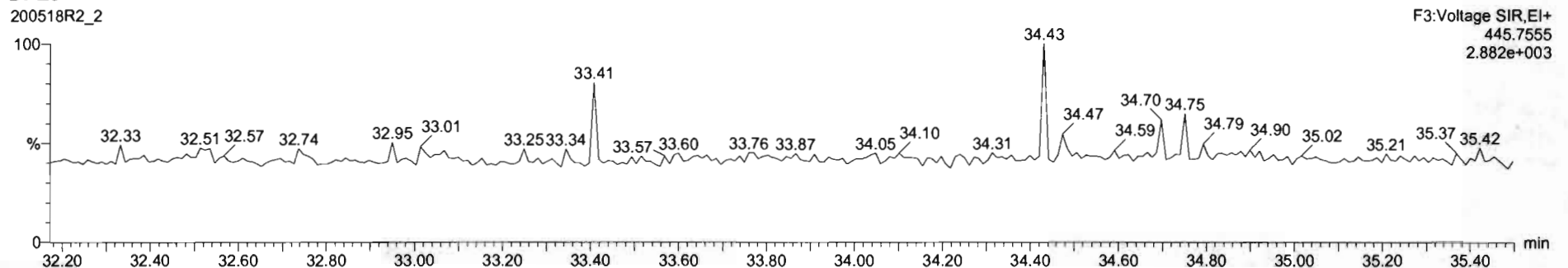


200518R2_2



DPE3

200518R2_2



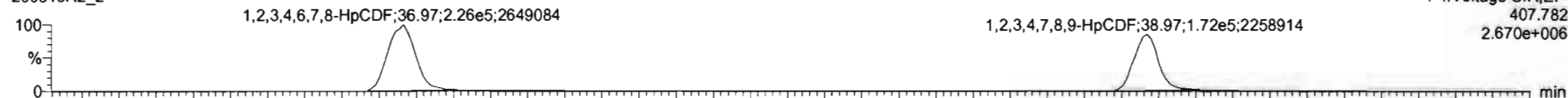
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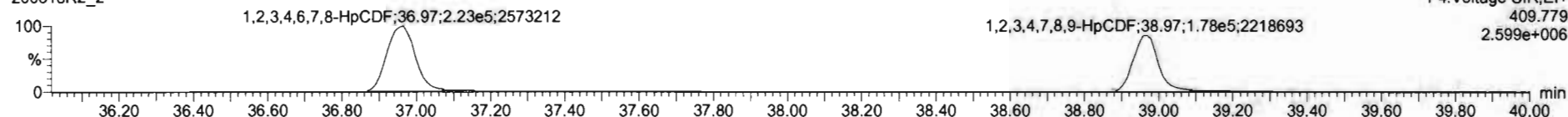
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1,2,3,4,6,7,8-HpCDF

200518R2_2

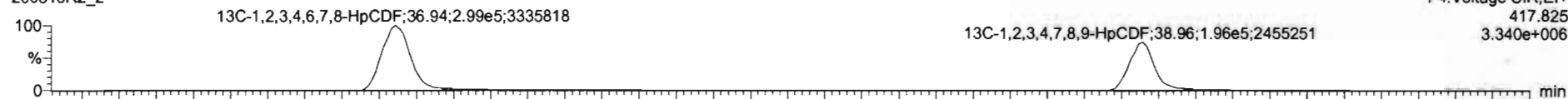


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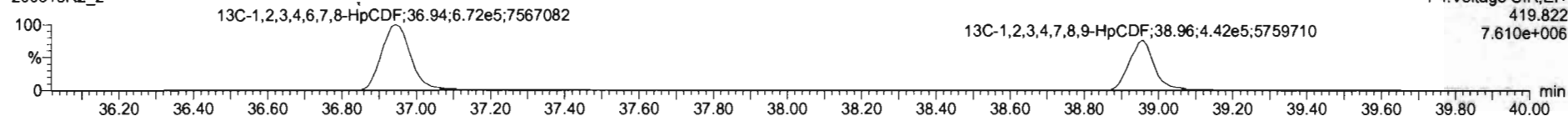


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200518R2_2

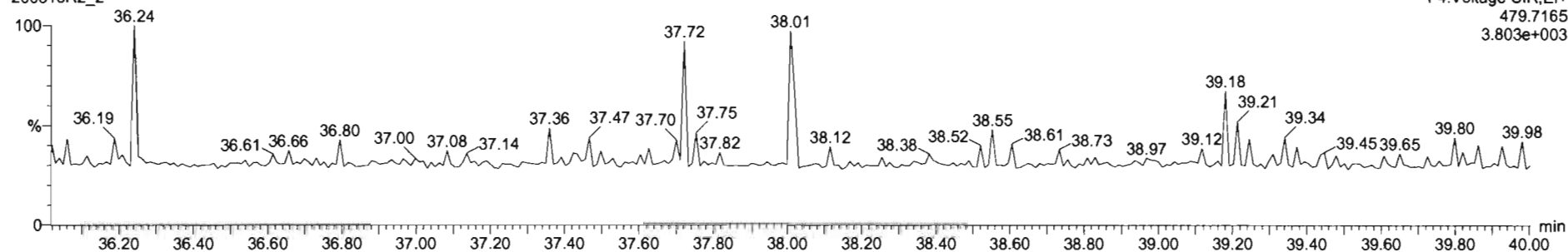


200518R2_2



DPE4

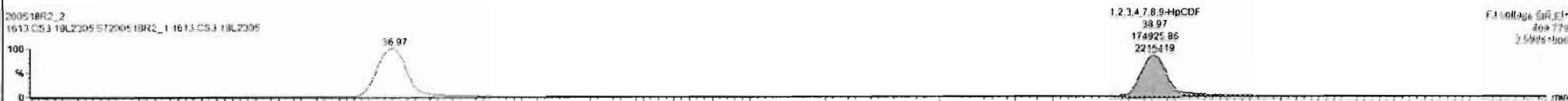
200518R2_2





CS3 19L2305 1613 CS3 19L2305

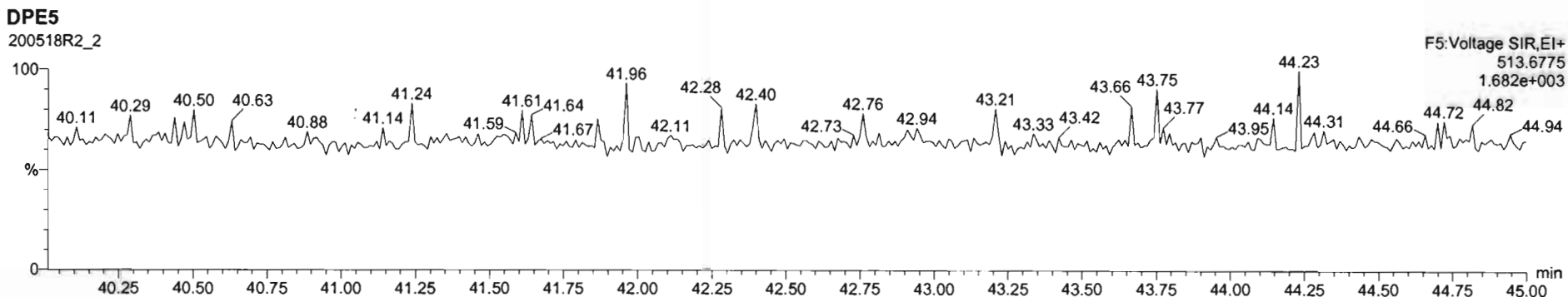
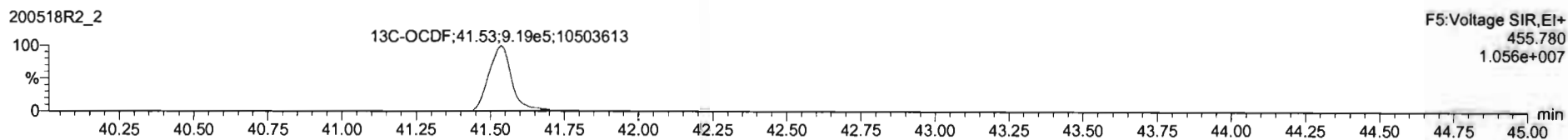
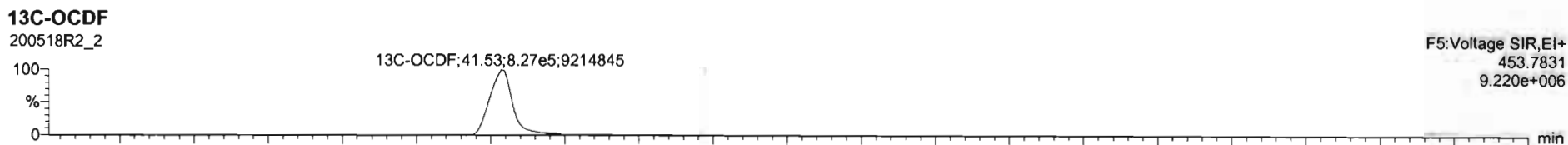
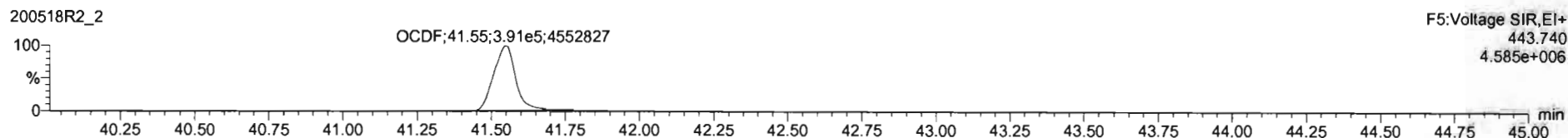
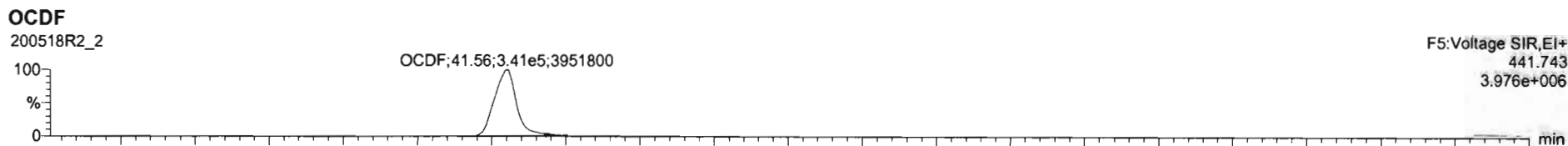
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1	1,2,3,7,8-TCDD	1.54e5	1.73e6	0.77	0.76	NO	0.9475	26.07	26.06	NO	1.001	1.001	9.41	94.1	NO
2	1,2,3,7,8-PeCDD	5.75e5	1.33e6	0.63	0.62	NO	0.9426	31.13	31.14	NO	1.001	1.001	45.8	91.8	NO
3	1,2,3,4,7,8-HxCDD	4.62e5	9.02e5	1.24	1.23	NO	1.0641	34.51	34.51	NO	1.000	1.000	59.3	101	NO
4	1,2,3,6,7,8-HxCDD	5.23e5	1.23e6	1.24	1.22	NO	0.9145	34.80	34.61	NO	1.000	1.000	46.7	93.3	NO
5	1,2,3,7,8,9-HxCDD	4.62e5	1.05e6	1.24	1.24	NO	0.9149	34.80	34.89	NO	1.000	1.001	48.1	96.3	NO
6	1,2,3,4,6,7,8-HpCDD	3.55e5	8.20e5	1.04	1.04	NO	0.9979	36.36	36.39	NO	1.000	1.001	46.2	96.4	NO
7	OCDD	6.77e5	1.48e6	0.89	0.88	NO	0.9335	41.35	41.36	NO	1.000	1.000	98.2	96.2	NO
8	2,3,7,8-TCDF	1.74e5	2.26e6	0.77	0.74	NO	0.7871	25.12	25.12	NO	1.001	1.001	9.76	97.8	NO
9	1,2,3,7,8-PeCDF	8.38e5	1.89e6	1.55	1.55	NO	0.9102	29.82	29.81	NO	1.001	1.001	48.6	97.2	NO
10	2,3,4,7,8-PeCDF	8.55e5	1.84e6	1.55	1.54	NO	0.9964	30.84	30.82	NO	1.001	1.000	48.1	96.1	NO
11	1,2,3,4,7,8-HxCDF	5.76e5	1.22e6	1.24	1.21	NO	0.9762	32.63	32.64	NO	1.000	1.000	54.0	108	NO
12	1,2,3,6,7,8-HxCDF	6.58e5	1.44e6	1.24	1.21	NO	0.8740	33.78	33.76	NO	1.000	1.000	52.3	105	NO
13	2,3,4,6,7,8-HxCDF	6.16e5	1.27e6	1.24	1.22	NO	0.9217	34.36	34.33	NO	1.001	1.000	52.8	106	NO
14	1,2,3,7,8,9-HxCDF	4.66e5	1.03e6	1.24	1.24	NO	0.9642	35.22	35.23	NO	1.000	1.000	52.4	105	NO
15	1,2,3,4,6,7,8-HpCDF	4.49e5	9.70e5	1.04	1.01	NO	0.8712	36.90	36.97	NO	1.001	1.001	53.1	106	NO
16	1,2,3,4,6,7,8,9-HpCDF	3.47e5	8.34e5	1.04	0.98	NO	1.0118	38.96	38.97	NO	1.000	1.000	54.1	108	NO
17	OCDF	7.32e5	1.75e6	0.89	0.87	NO	0.8921	41.53	41.56	NO	1.000	1.001	105	105	NO
18	13C-2,3,7,8-TCDD	1.73e6	1.47e6	0.77	0.78	NO	1.1595	26.02	26.03	NO	1.026	1.027	101	101	NO
19	13C-1,2,3,7,8-PeCDD	1.33e6	1.47e6	0.63	0.63	NO	0.8472	31.10	31.11	NO	1.227	1.227	107	107	NO
20	13C-1,2,3,4,7,8-HxCDD	9.02e5	1.27e6	1.24	1.26	NO	0.7499	34.50	34.49	NO	1.014	1.014	94.7	94.7	NO
21	13C-1,2,3,6,7,8-HxCDD	1.23e6	1.27e6	1.24	1.27	NO	0.9630	34.61	34.60	NO	1.017	1.017	100	100	NO



Dataset: Untitled

Last Altered: Monday, May 18, 2020 15:34:39 Pacific Daylight Time
Printed: Monday, May 18, 2020 15:34:42 Pacific Daylight Time

Name: 200518R2_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

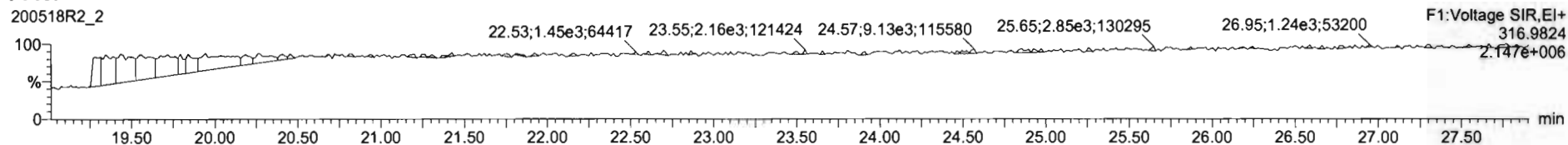


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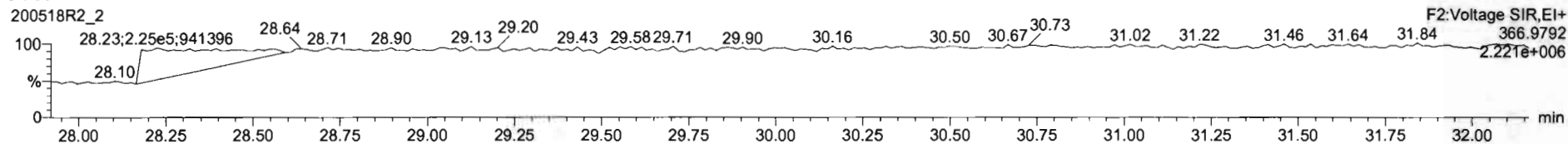
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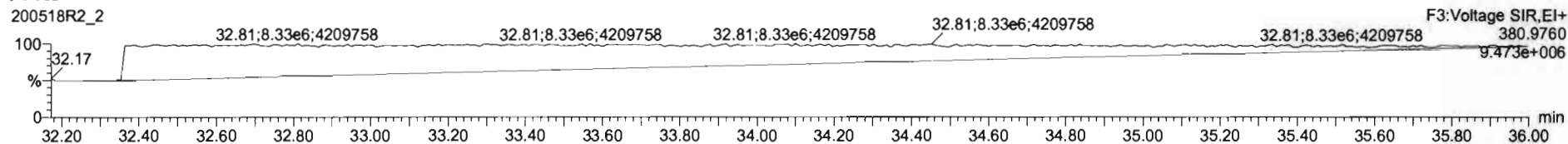
PFK1



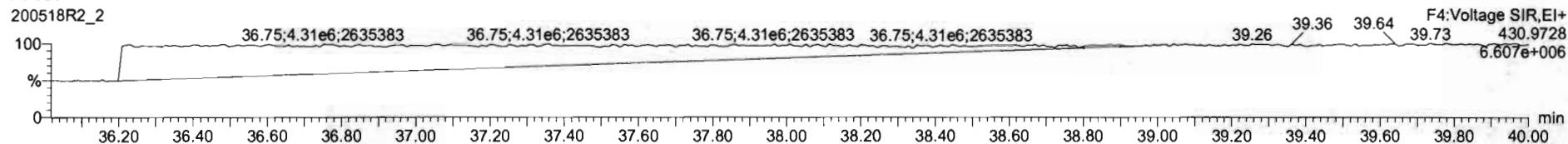
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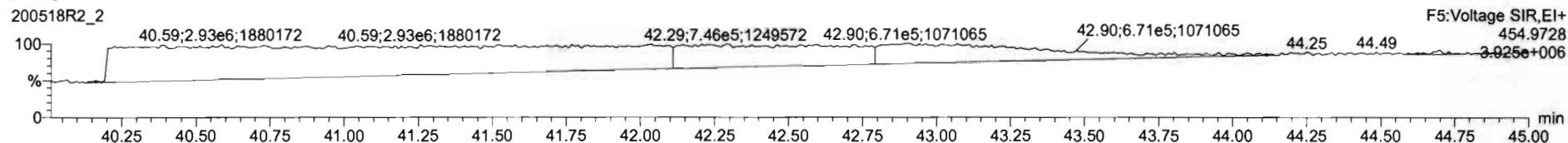
PFK3



PFK4



PFK5



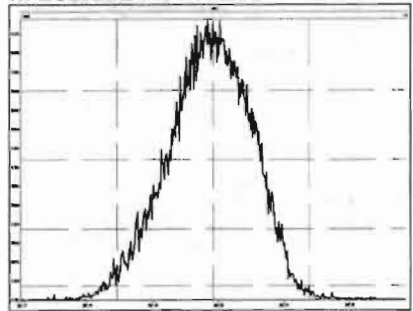
Experiment Calibration Report

MassLynx 4.1 SCN815

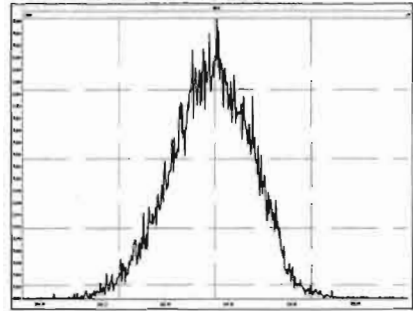
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Printed: Tuesday, May 19, 2020 07:19:18 Pacific Daylight Time

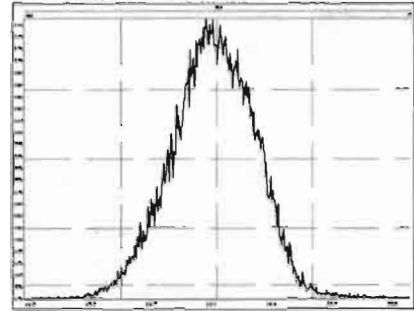
M 292.9824 R 10203



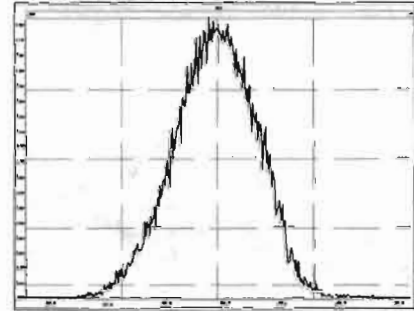
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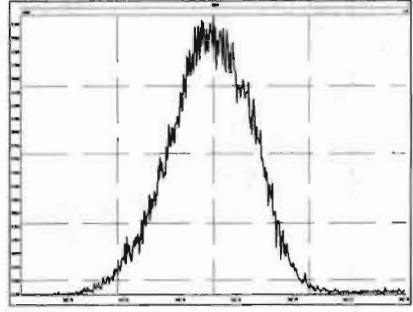
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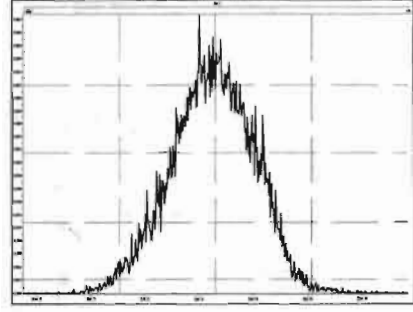
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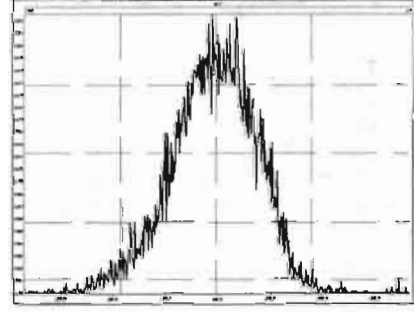
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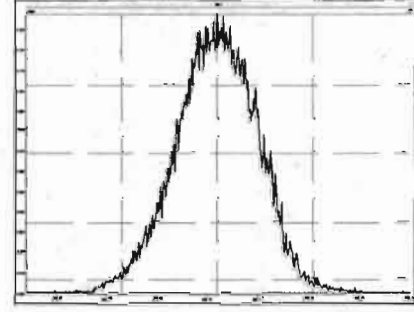
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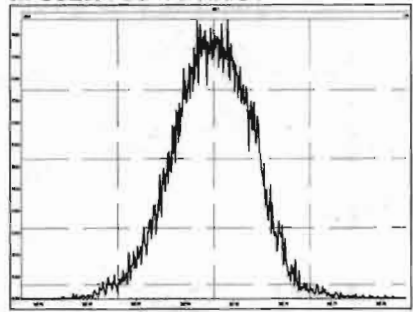
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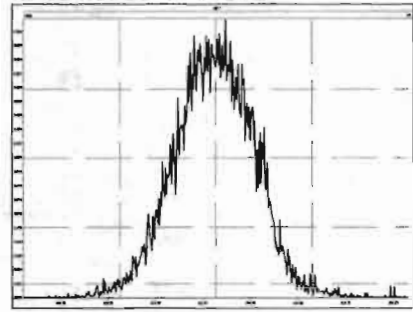
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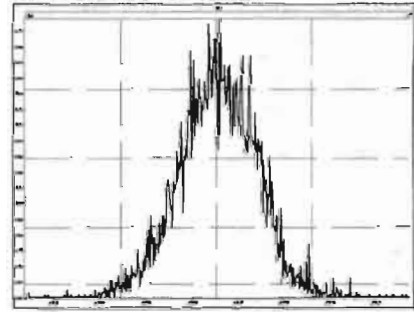
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M 404.9760 R 11013



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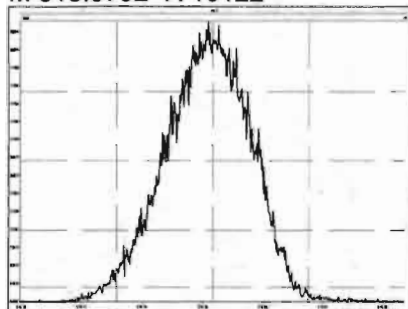
Experiment Calibration Report

MassLynx 4.1 SCN815

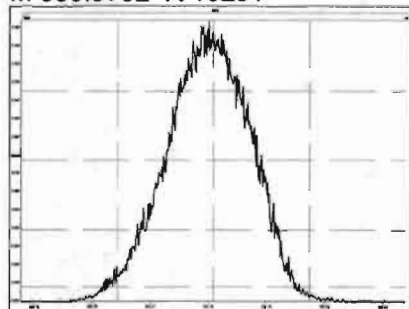
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, May 19, 2020 07:19:57 Pacific Daylight Time

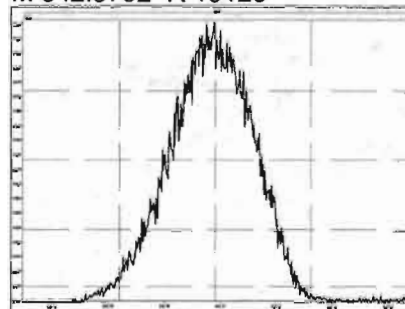
M 318.9792 R 10122



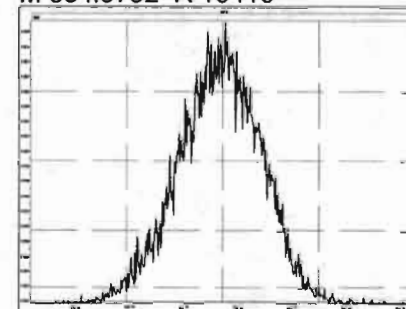
M 330.9792 R 10291



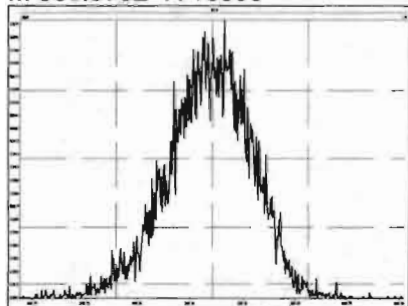
M 342.9792 R 10123



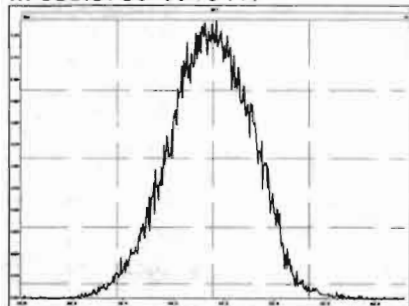
M 354.9792 R 10416



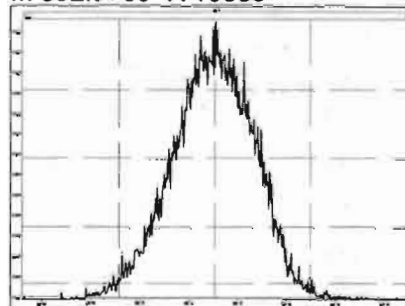
M 366.9792 R 10595



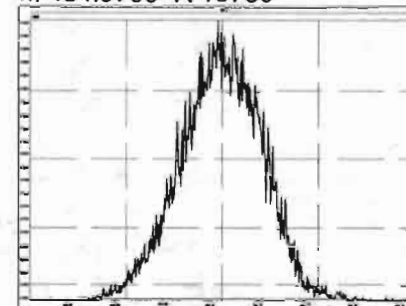
M 380.9760 R 10417



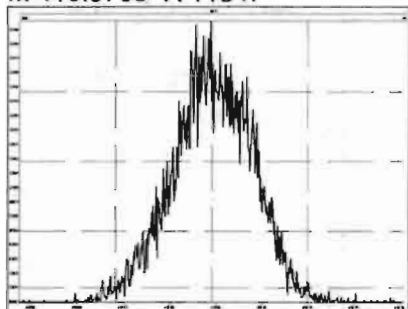
M 392.9760 R 10333



M 404.9760 R 10730



M 416.9760 R 11847



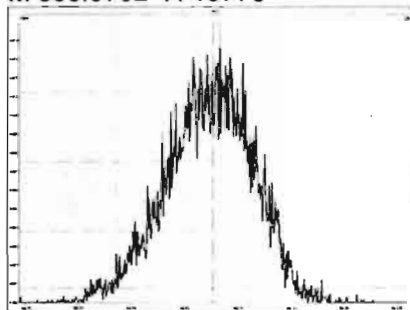
Experiment Calibration Report

MassLynx 4.1 SCN815

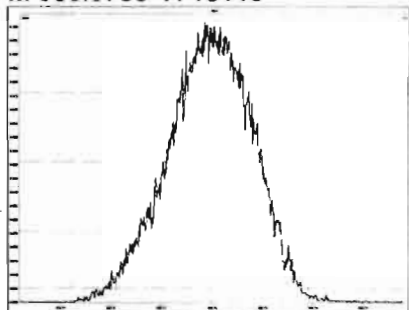
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, May 19, 2020 07:21:22 Pacific Daylight Time

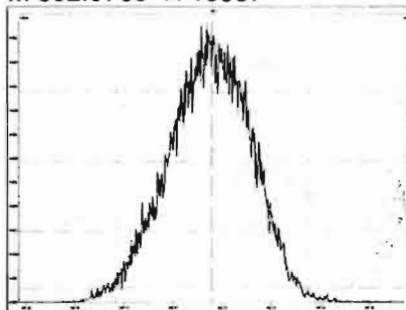
M 366.9792 R 10778



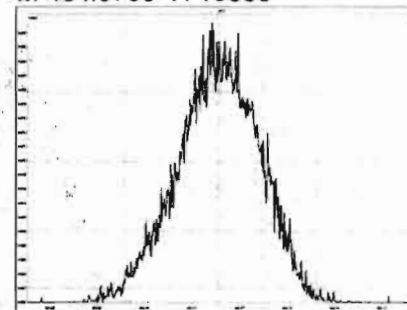
M 380.9760 R 10118



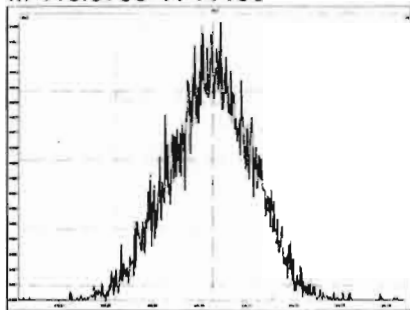
M 392.9760 R 10687



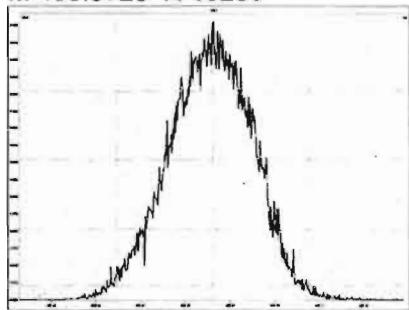
M 404.9760 R 10635



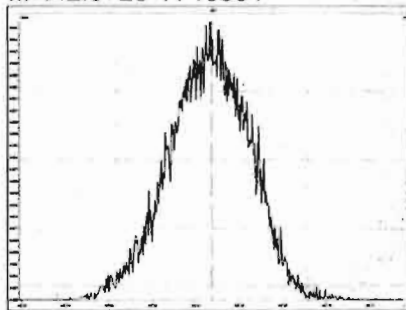
M 416.9760 R 11160



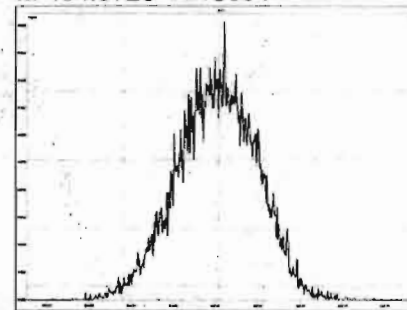
M 430.9728 R 10286



M 442.9728 R 10684



M 454.9728 R 10591



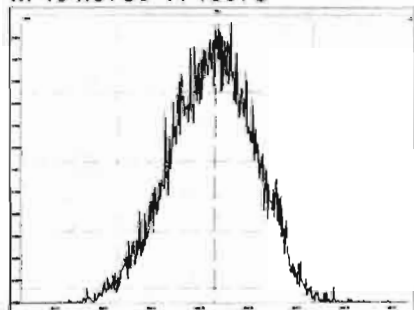
Experiment Calibration Report

MassLynx 4.1 SCN815

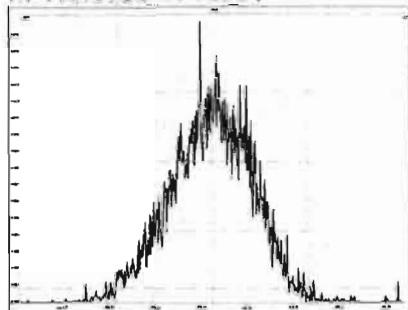
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, May 19, 2020 07:22:01 Pacific Daylight Time

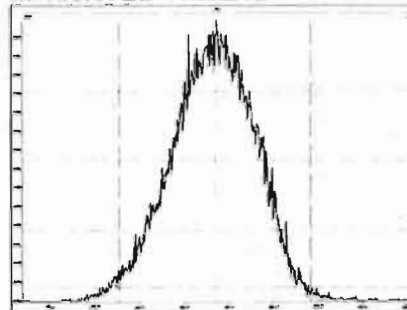
M 404.9760 R 10375



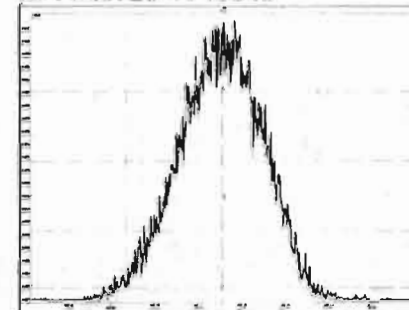
M 416.9760 R 10504



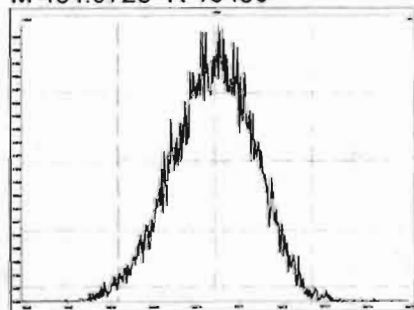
M 430.9728 R 10248



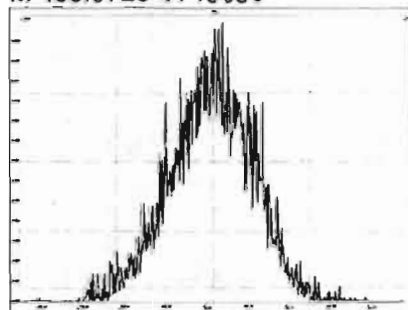
M 442.9728 R 10546



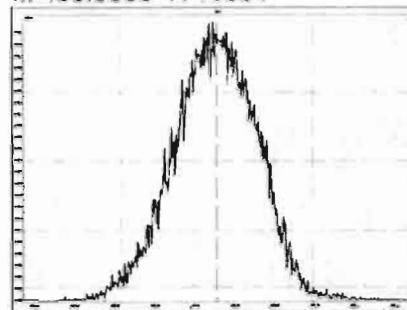
M 454.9728 R 10460



M 466.9728 R 10550



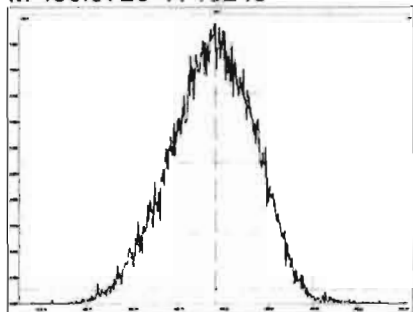
M 480.9696 R 10504



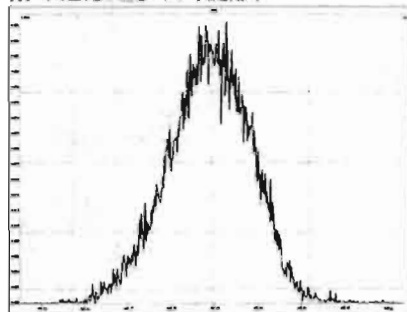
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, May 19, 2020 07:22:37 Pacific Daylight Time

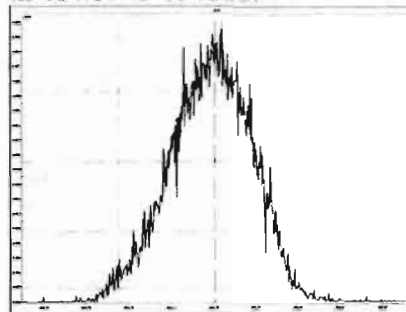
M 430.9728 R 10246



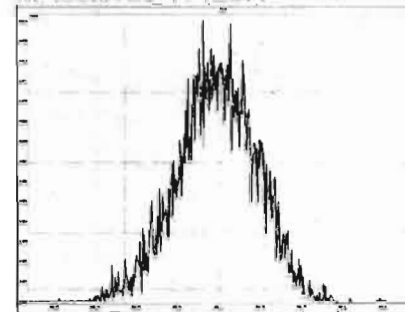
M 442.9728 R 10291



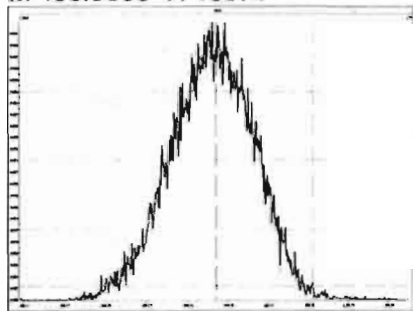
M 454.9728 R 10867



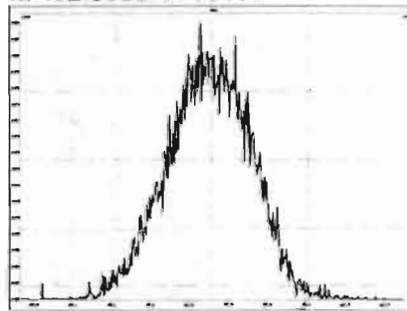
M 466.9728 R 12077



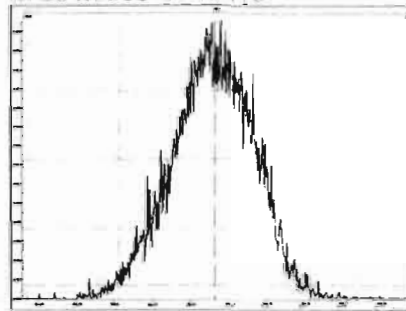
M 480.9696 R 10871



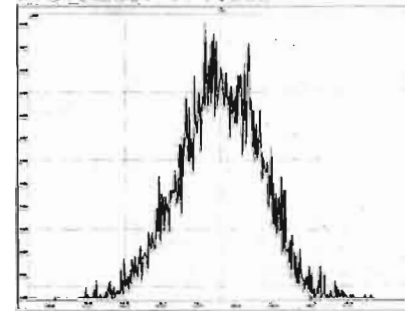
M 492.9696 R 10414



M 504.9696 R 10416



M 516.9697 R 11008



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST20051211-1

Reviewed By: CT 05/13/2020

Initials & Date

End Calibration ID: NA

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

Mass resolution \geq

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

Intergrated peaks display correctly?

GC Break <20%

8280 CS1 End Standard:

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

Comments:

A) PFIC Armin

Dataset: U:\VG7.PRO\Results\200512D1\200512D1_2.qld

Last Altered: Tuesday, May 12, 2020 11:47:45 Pacific Daylight Time
Printed: Tuesday, May 12, 2020 11:49:09 Pacific Daylight Time

DB 5/12/20

CT 05/13/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200512D1_2, Date: 12-May-2020, Time: 11:23:51, ID: ST200512D1-1 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	2,3,7,8-TCDF	1.46e4	0.81	NO	0.982	1.000	17.678	17.68	1.000	1.001	8.6463	86.586-116	0.146	8.65
2	13C-2,3,7,8-TCDF	1.72e5	0.77	NO	1.08	1.000	17.712	17.66	1.133	1.135	97.128	97.176-131	0.479	
3	13C-1,2,3,4-TCDF	1.63e5	0.81	NO	1.00	1.000	15.660	15.55	1.000	1.000	100.00	100	0.519	

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Wednesday, May 13, 2020 09:42:29 Pacific Daylight Time

Printed: Wednesday, May 13, 2020 09:42:44 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

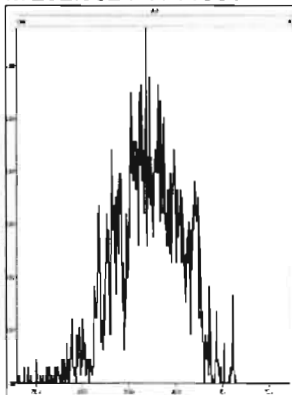
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200512D1_1	CP200512D1-1 DB-225 CPSM	12-May-20	10:53:43
2	200512D1_2	ST200512D1-1 1613 CS3 19L2305	12-May-20	11:23:51
3	200512D1_3	SOLVENT BLANK	12-May-20	11:55:37
4	200512D1_4	2000952-05RE1 PDI-160SC-A-00-01-200423 ...	12-May-20	12:27:31
5	200512D1_5	2000951-01RE1 PDI-1159SC-A-01-02-200423...	12-May-20	12:59:11
6	200512D1_6	2000951-02RE1 PDI-159SC-A-00-01-200423 ...	12-May-20	13:30:54
7	200512D1_7	2000953-01RE1 PDI-165SC-A-00-01-200426 ...	12-May-20	14:02:36
8	200512D1_8	2000948-09RE1 PDI-1161SC-A-02-03-200424...	12-May-20	14:34:18
9	200512D1_9	2000948-10RE1 PDI-161SC-A-00-01-200424 ...	12-May-20	15:06:01
10	200512D1_10	2000948-11RE1 PDI-161SC-A-01-02-200424 ...	12-May-20	15:37:43
11	200512D1_11	2000948-12RE1 PDI-161SC-A-02-03-200424 ...	12-May-20	16:09:25
12	200512D1_12	2000948-13RE1 PDI-161SC-A-03-04-200424 ...	12-May-20	16:41:07
13	200512D1_13	2000842-02RE1 Secondary Effluent 0.87267	12-May-20	17:12:50
14	200512D1_14	B0D0323-DUP1RE1 Duplicate	12-May-20	17:44:32
15	200512D1_15	B0D0332-DUP1RE1 Duplicate	12-May-20	18:16:14

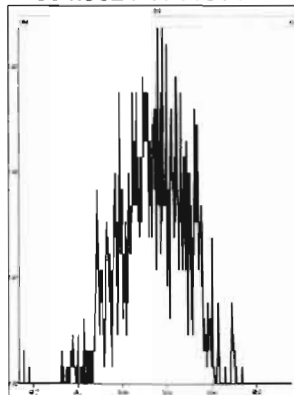
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, May 12, 2020 10:52:53 Pacific Daylight Time

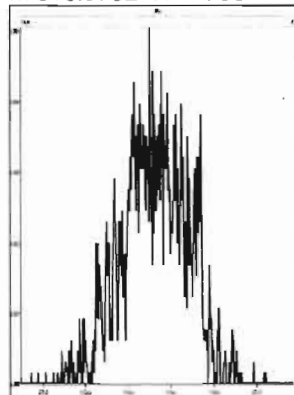
M 292.9824 R 11901



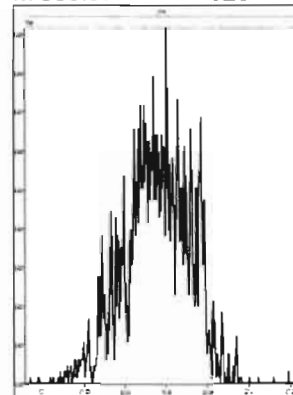
M 304.9824 R 11014



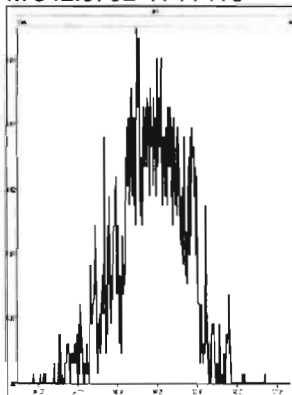
M 318.9792 R 11736



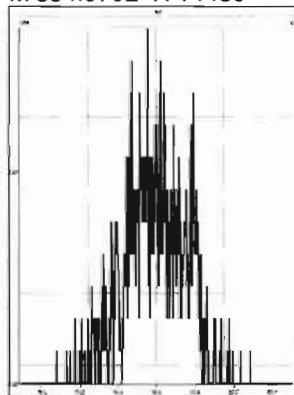
M 330.9792 R 11523



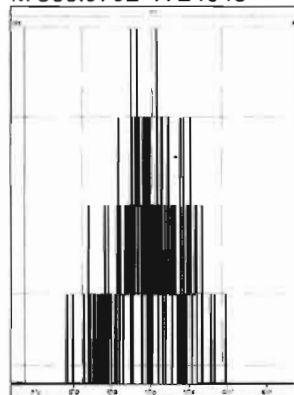
M 342.9792 R 11416



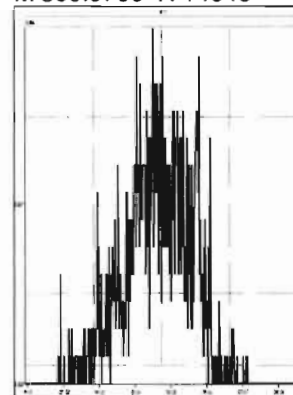
M 354.9792 R 14450

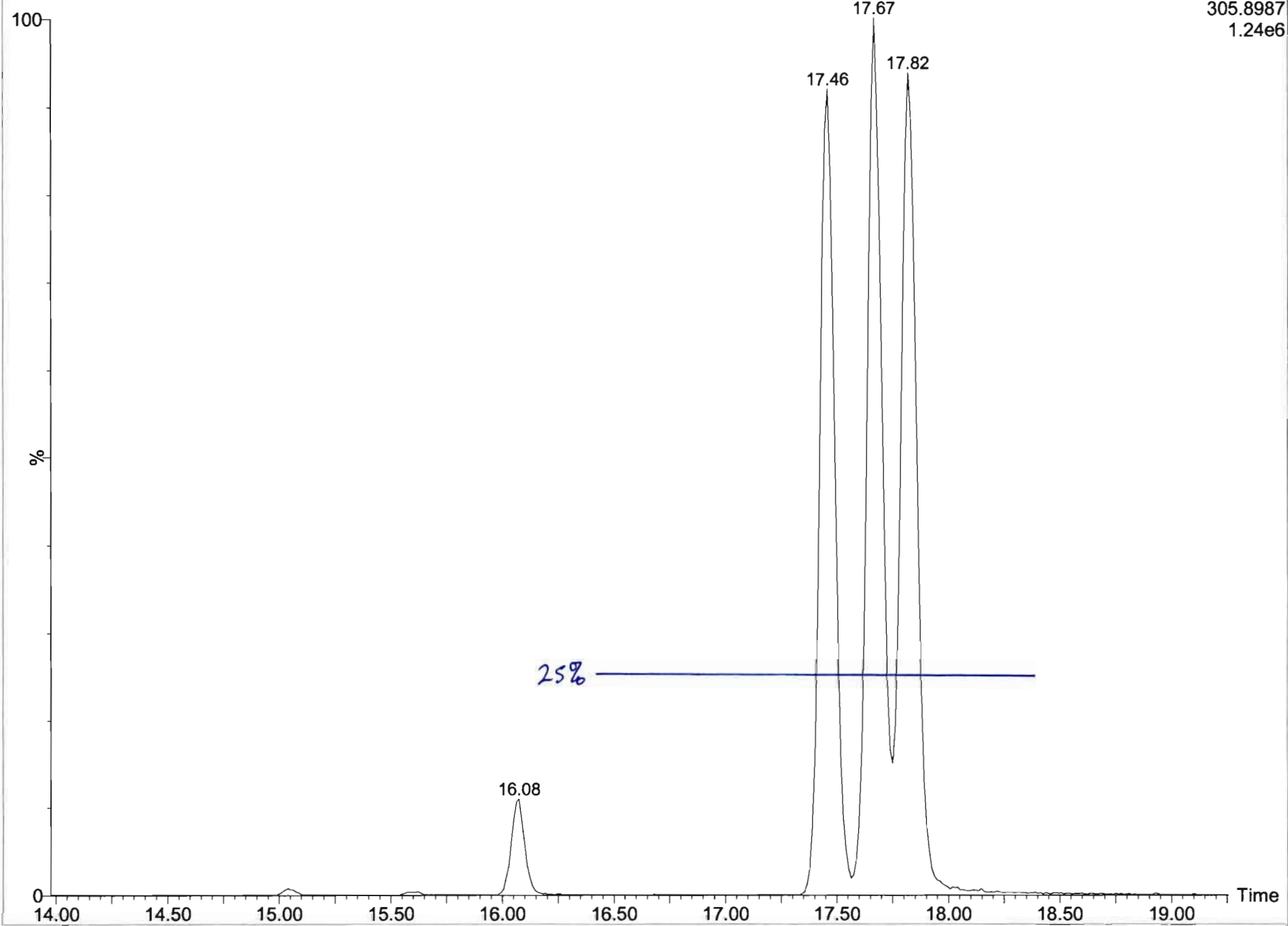


M 366.9792 R 24043



M 380.9760 R 14046





Dataset: U:\VG7.PRO\Results\200512D1\200512D1_1.qld

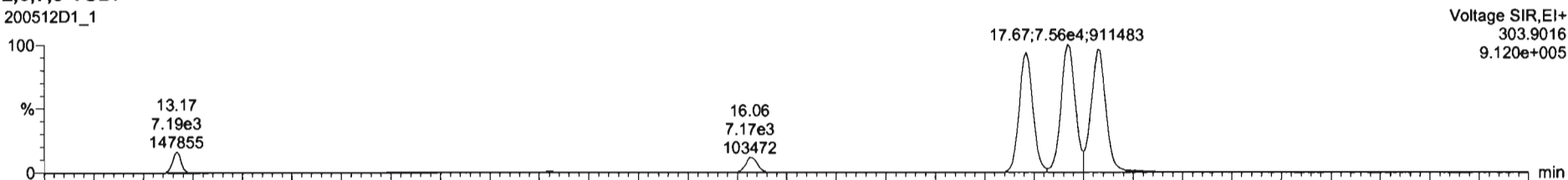
Last Altered: Tuesday, May 12, 2020 11:45:20 Pacific Daylight Time
Printed: Tuesday, May 12, 2020 11:46:29 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

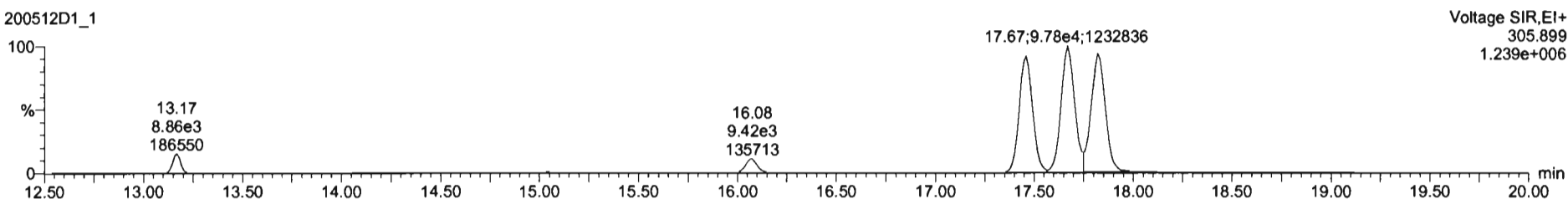
Name: 200512D1_1, Date: 12-May-2020, Time: 10:53:43, ID: CP200512D1-1 DB-225 CPSM, Description: DB-225 CPSM

2,3,7,8-TCDF

200512D1_1

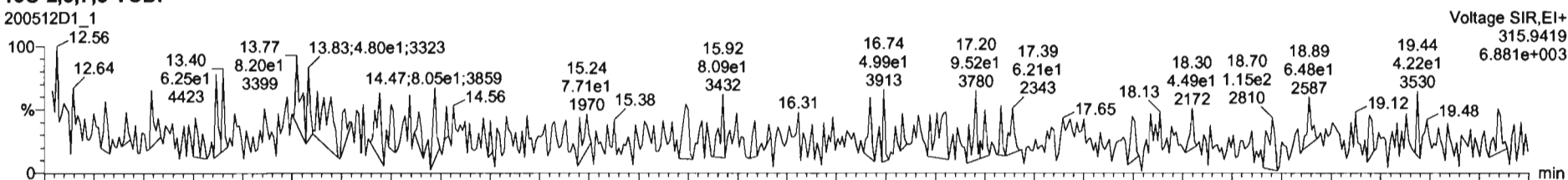


200512D1_1

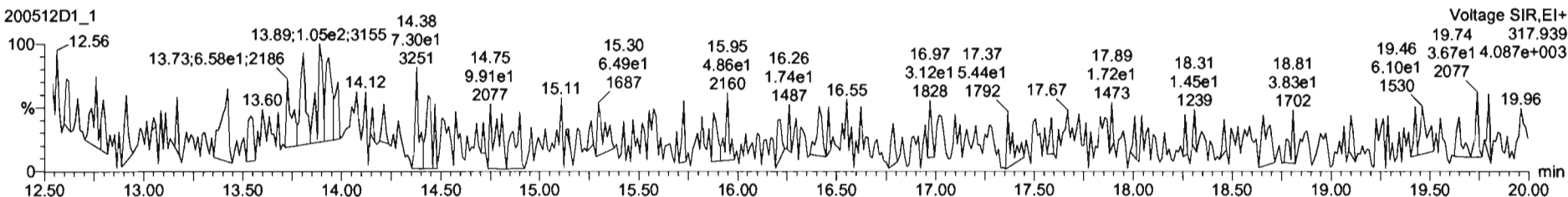


13C-2,3,7,8-TCDF

200512D1_1



200512D1_1

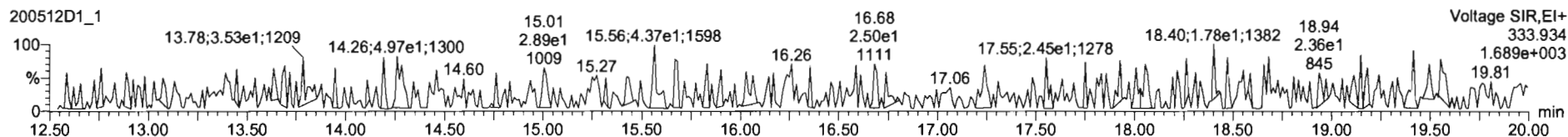
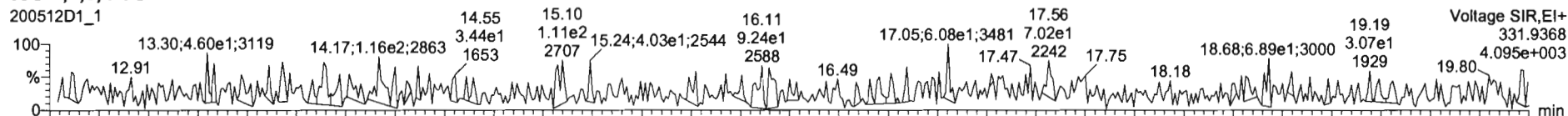


Dataset: U:\VG7.PRO\Results\200512D1\200512D1_1.qld

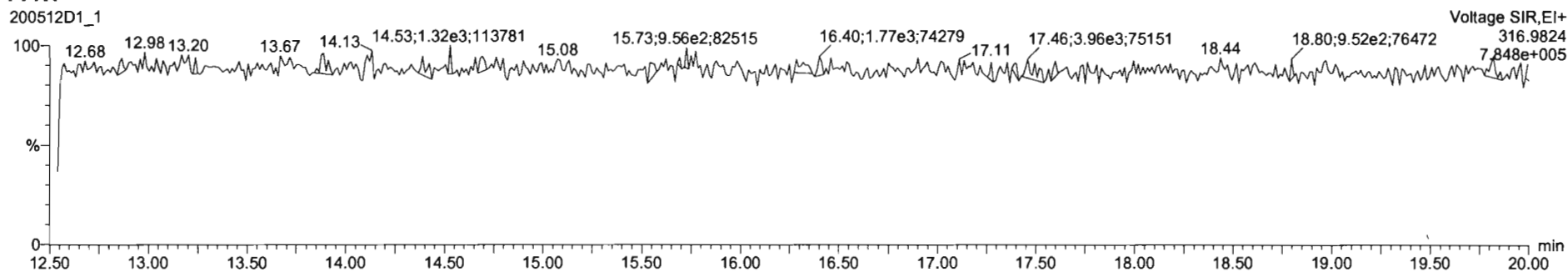
Last Altered: Tuesday, May 12, 2020 11:45:20 Pacific Daylight Time
Printed: Tuesday, May 12, 2020 11:46:29 Pacific Daylight Time

Name: 200512D1_1, Date: 12-May-2020, Time: 10:53:43, ID: CP200512D1-1 DB-225 CPSM, Description: DB-225 CPSM

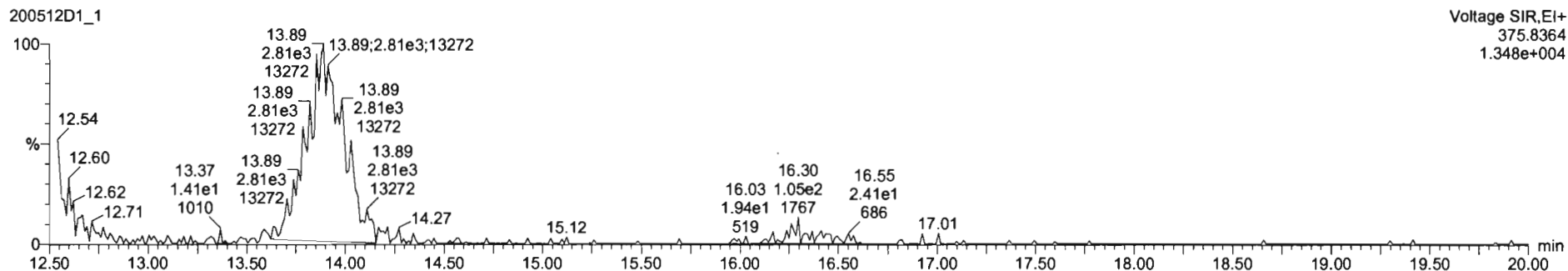
13C-1,2,3,4-TCDD



PFK1



DPE1



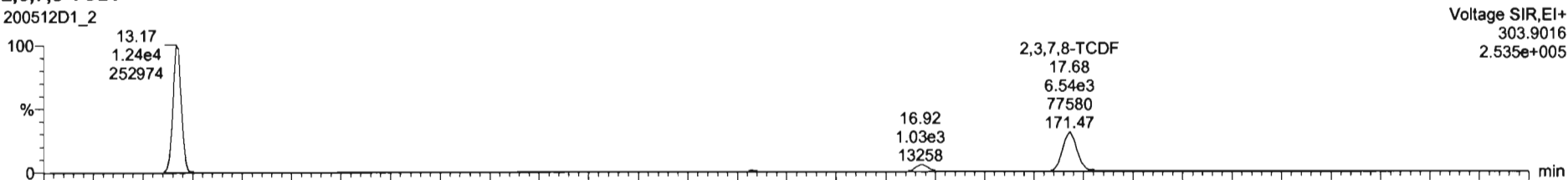
Dataset: U:\VG7.PRO\Results\200512D1\200512D1_2.qld

Last Altered: Tuesday, May 12, 2020 11:47:45 Pacific Daylight Time
Printed: Tuesday, May 12, 2020 11:48:42 Pacific Daylight Time

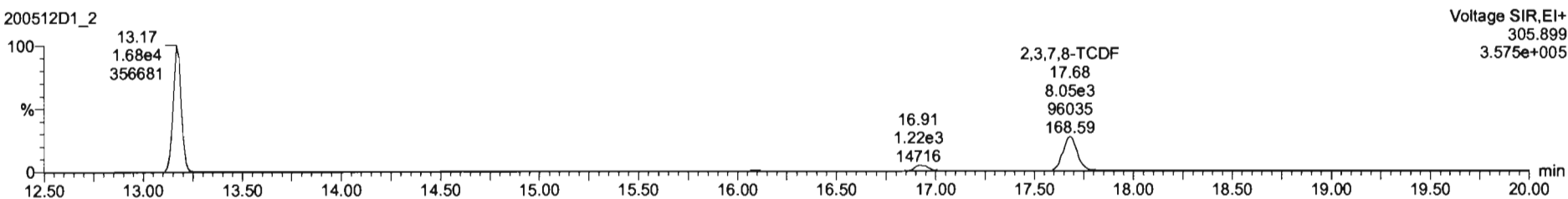
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200512D1_2, Date: 12-May-2020, Time: 11:23:51, ID: ST200512D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF
200512D1_2



200512D1_2

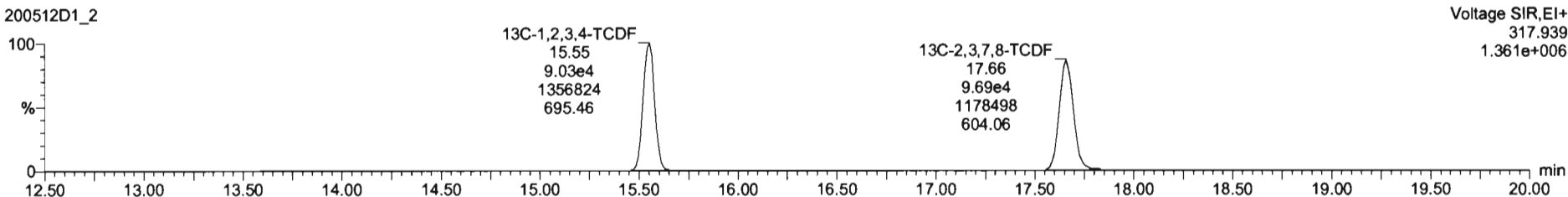


13C-2,3,7,8-TCDF

200512D1_2



200512D1_2



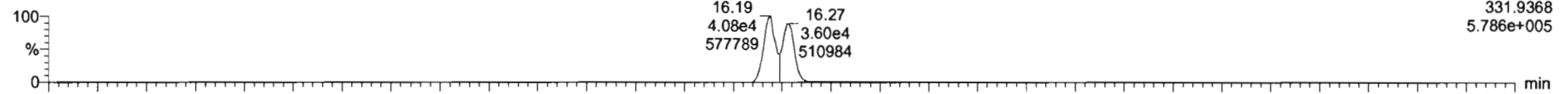
Dataset: U:\VG7.PRO\Results\200512D1\200512D1_2.qld

Last Altered: Tuesday, May 12, 2020 11:47:45 Pacific Daylight Time
Printed: Tuesday, May 12, 2020 11:48:42 Pacific Daylight Time

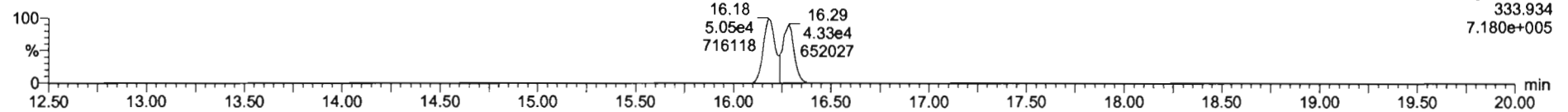
Name: 200512D1_2, Date: 12-May-2020, Time: 11:23:51, ID: ST200512D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200512D1_2

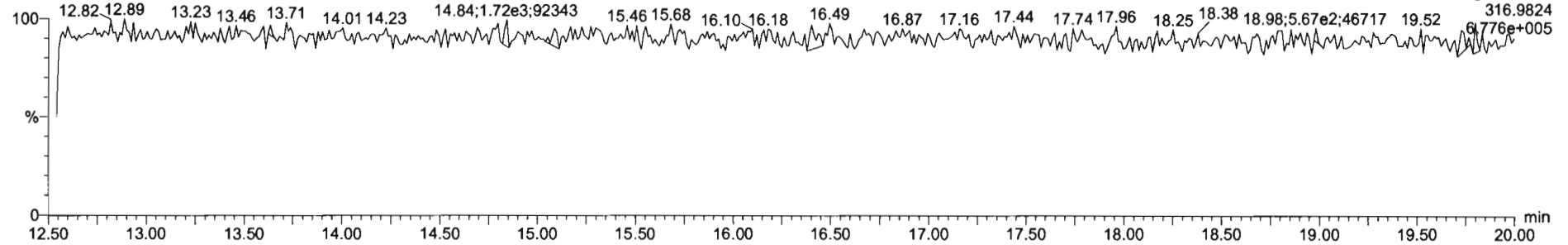


200512D1_2



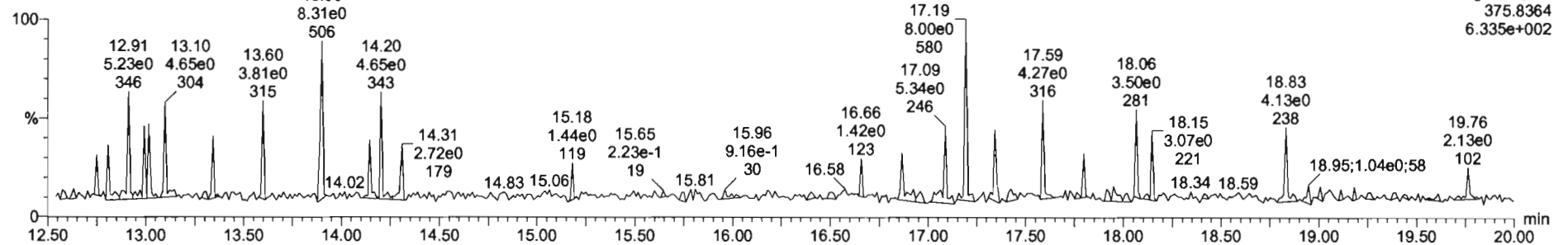
PFK1

200512D1_2



DPE1

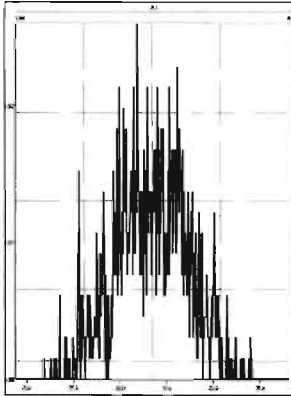
200512D1_2



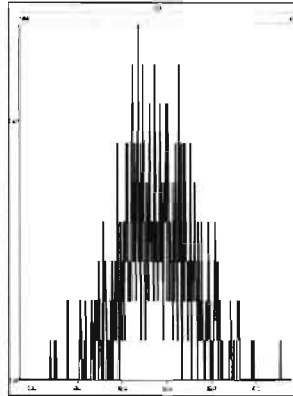
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, May 12, 2020 18:45:56 Pacific Daylight Time

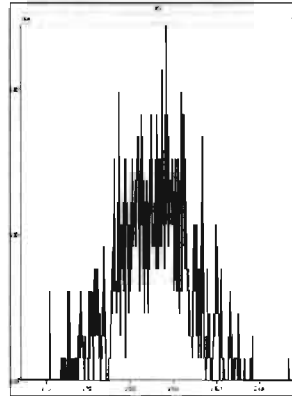
M 292.9824 R 10819



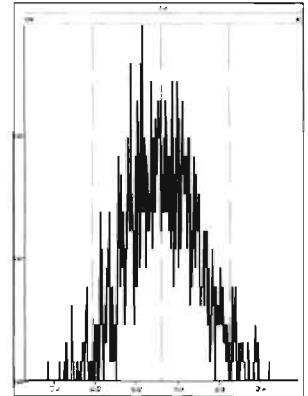
M 304.9824 R 13514



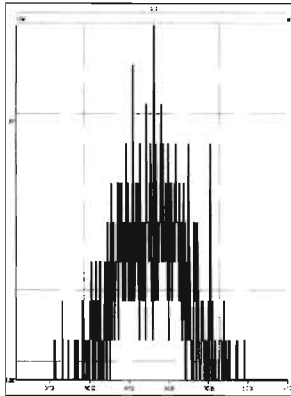
M 318.9792 R 14043



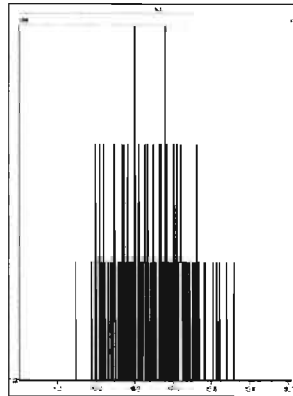
M 330.9792 R 12312



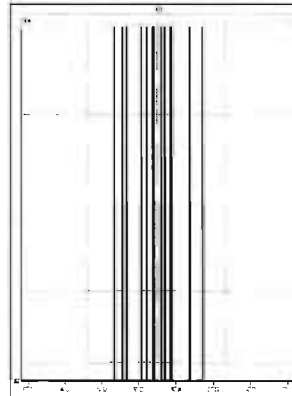
M 342.9792 R 12500



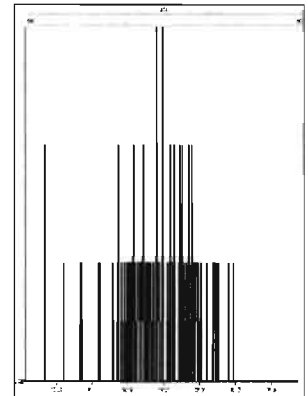
M 354.9792 R 249974



M 366.9792 R 833124



M 380.9760 R 833368



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200520D1-1

Reviewed By: OT 05/21/2020
Initials & Date

End Calibration ID: NA

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

	<u>Beg.</u>	<u>End</u>
Mass resolution ≥	A <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	
8280 CS1 End Standard:		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> NA

Comments:
 INSTRUMENT WENT INTO 'PAUSE' FOR AN UNKNOWN REASON.
 END) RES CHECK PRINTED OUT IN THE MORNING.
 A) PFK drain

Dataset: U:\VG7.PRO\Results\200520D1\200520D1_2.qld

Last Altered: Wednesday, May 20, 2020 13:31:55 Pacific Daylight Time
Printed: Wednesday, May 20, 2020 13:32:21 Pacific Daylight Time

DB 5/20/20 C105/20/2020

Method: C:\MassLynx\Default.pro\Methdb\lctcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdvfg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200520D1_2, Date: 20-May-2020, Time: 13:04:49, ID: ST200520D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	1.30e3	0.86	NO	0.982	1.000	17.620	17.60	1.000	1.000	9.1634	91.6	0.845	9.16
2	2 13C-2,3,7,8-TCDF	1.44e4	0.78	NO	1.08	1.000	17.654	17.60	1.133	1.136	105.58	106	2.66	
3	3 13C-1,2,3,4-TCDF	1.26e4	0.88	NO	1.00	1.000	15.660	15.49	1.000	1.000	100.00	100	2.88	

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Thursday, May 21, 2020 09:16:49 Pacific Daylight Time

Printed: Thursday, May 21, 2020 09:17:06 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

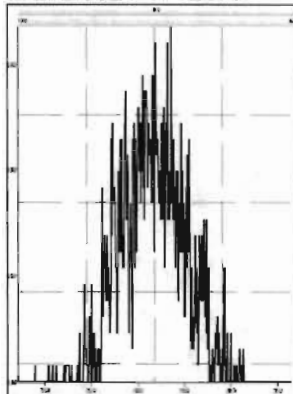
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200520D1_1	CP200520D1-1 DB-225 CPSM	20-May-20	12:34:41
2	200520D1_2	ST200520D1-1 1613 CS3 19L2305	20-May-20	13:04:49
3	200520D1_3	SOLVENT BLANK	20-May-20	13:36:33
4	200520D1_4	2000951-03RE2 PDI-159SC-A-01-02-200423 ...	20-May-20	14:08:18
5	200520D1_5	2000830-01RE1 Dredging Feed Slurry 59.86	20-May-20	14:39:59
6	200520D1_6	2000830-02RE1 Dredging Cake/Product 41.01	20-May-20	15:11:41
7	200520D1_7	2000946-01RE1 PDI-162SC-A-00-01-200424 ...	20-May-20	15:43:24
8	200520D1_8	2000946-02RE1 PDI-162SC-A-02-03-200424 ...	20-May-20	16:15:08
9	200520D1_9	2000946-03RE1 PDI-162SC-A-03-04-200424 ...	20-May-20	16:46:50
10	200520D1_10	2000946-04RE1 PDI-162SC-A-04-05-200424 ...	20-May-20	17:18:33
11	200520D1_11	2000932-20RE3 SD-0033 26.4	20-May-20	17:50:15
12	200520D1_12	2000953-02RE2 PDI-165SC-A-01-02-200426 ...	20-May-20	18:21:56
13	200520D1_13	2000931-01RE4 Biosolid Composite 27.85	20-May-20	18:53:38
14	200520D1_14	2000950-10RE1 PDI-158SC-A-00-01-200423 ...	20-May-20	19:25:21
15	200520D1_15	B0E0019DUP1RE1 Duplicate	20-May-20	19:57:03
16	200520D1_16	2000976-01RE1 PDI-153SC-A-00-01-200427 ...	20-May-20	20:28:46
17	200520D1_17	2000957-01RE1 PDI-1147SC-A-13-14-200425...	20-May-20	21:00:27
18	200520D1_18	2000957-02RE1 PDI-147SC-A-00-01-200425 ...	20-May-20	21:32:10
19	200520D1_19	2000957-03RE1 PDI-147SC-A-05-06-200425 ...	20-May-20	22:03:53

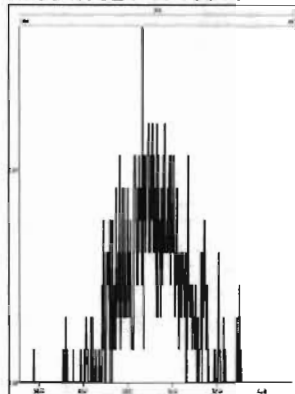
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, May 20, 2020 12:33:36 Pacific Daylight Time

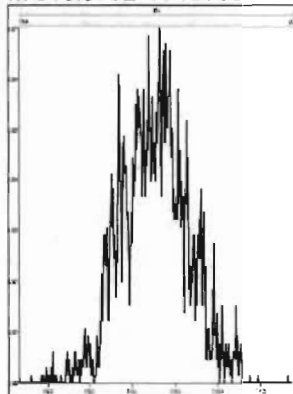
M 292.9824 R 12079



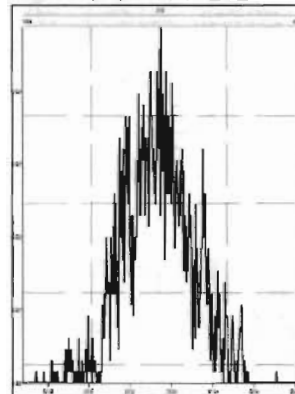
M 304.9824 R 18518



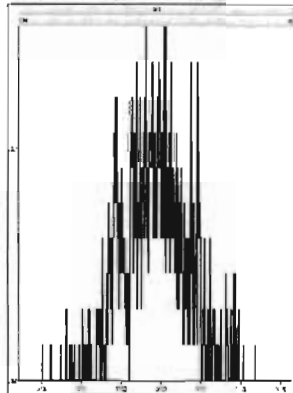
M 318.9792 R 10963



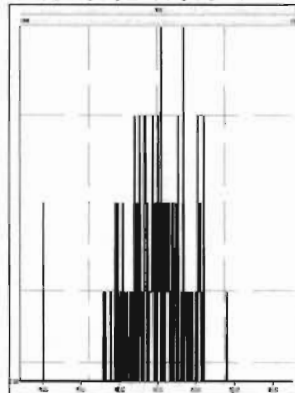
M 330.9792 R 11212



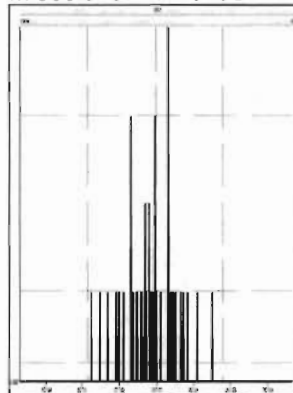
M 342.9792 R 12438



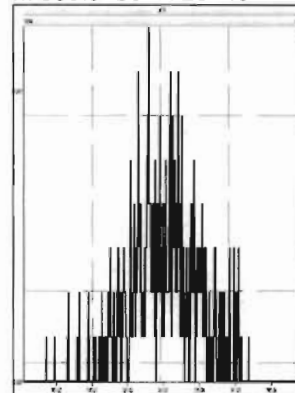
M 354.9792 R 51014

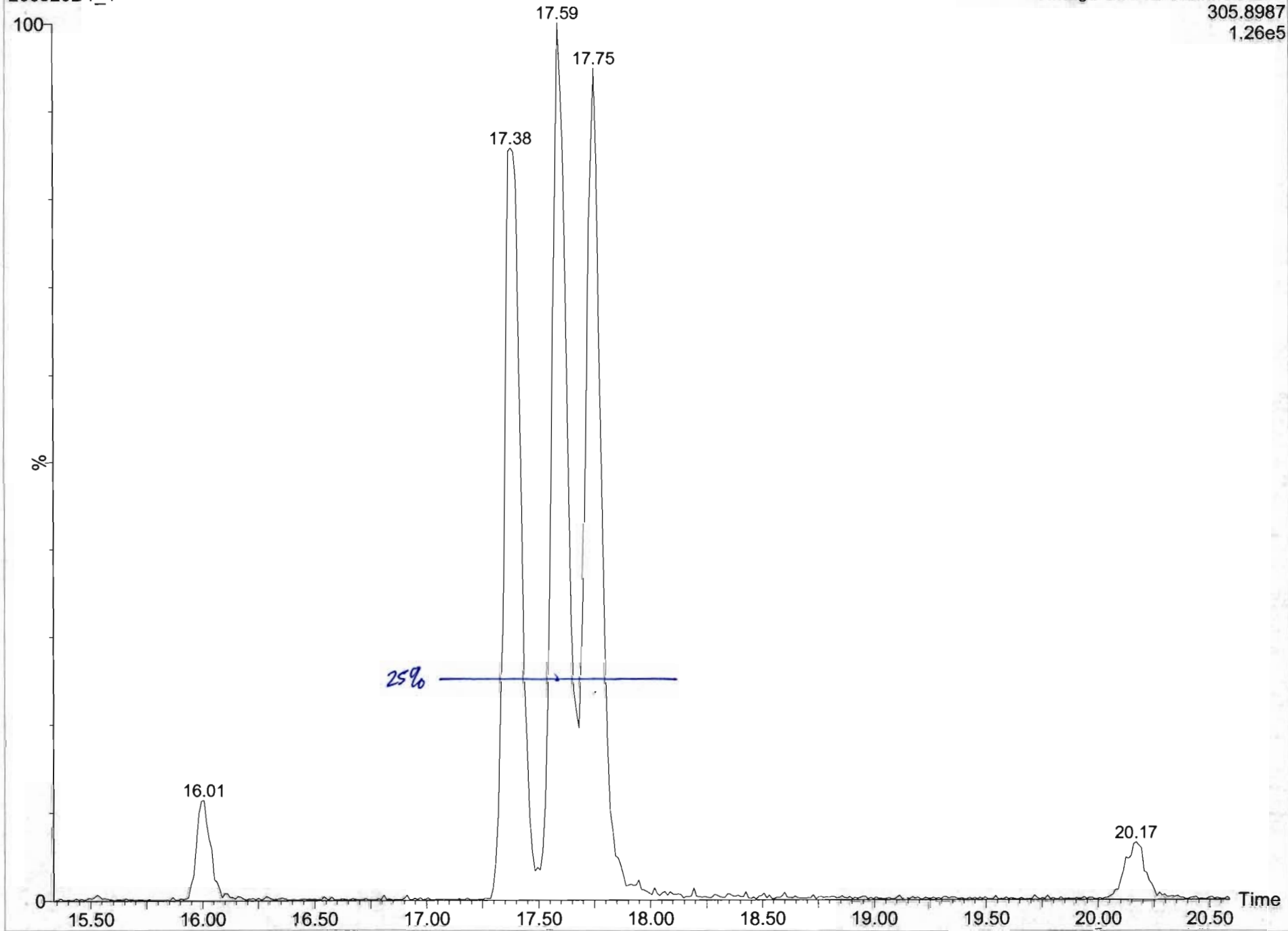


M 366.9792 R 28093



M 380.9760 R 23149



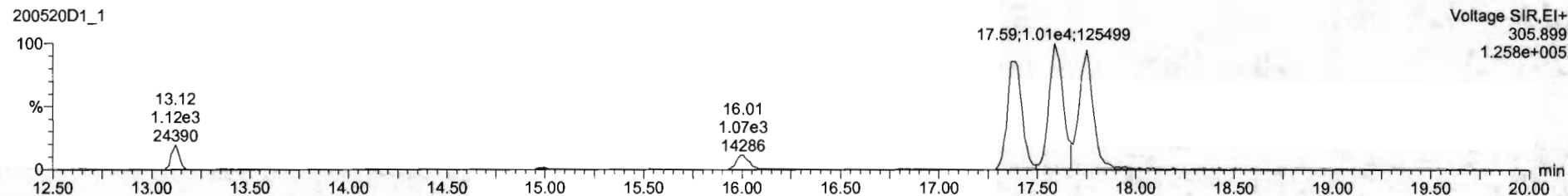
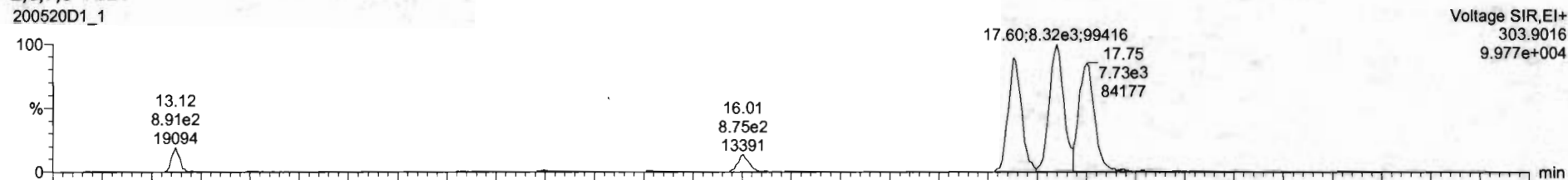


Dataset: U:\VG7.PRO\Results\200520D1\200520D1_1.qld
Last Altered: Wednesday, May 20, 2020 13:34:05 Pacific Daylight Time
Printed: Wednesday, May 20, 2020 13:35:13 Pacific Daylight Time

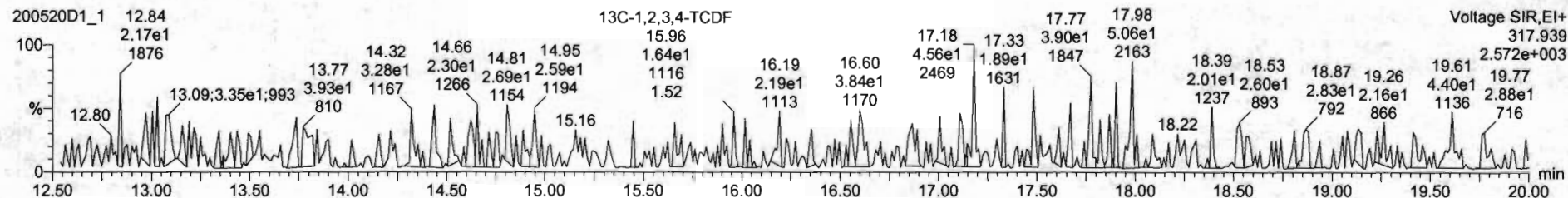
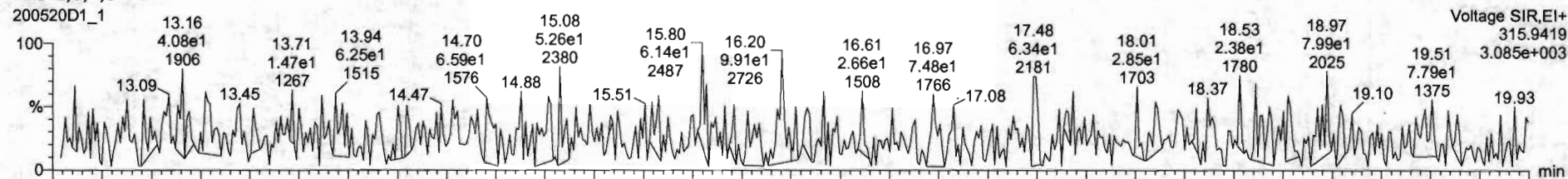
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200520D1_1, Date: 20-May-2020, Time: 12:34:41, ID: CP200520D1-1 DB-225 CPSM, Description: DB-225 CPSM

2,3,7,8-TCDF



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

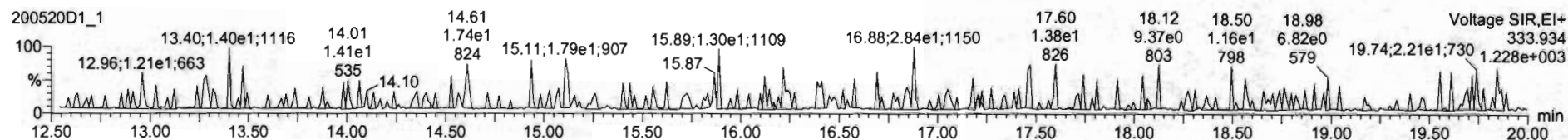
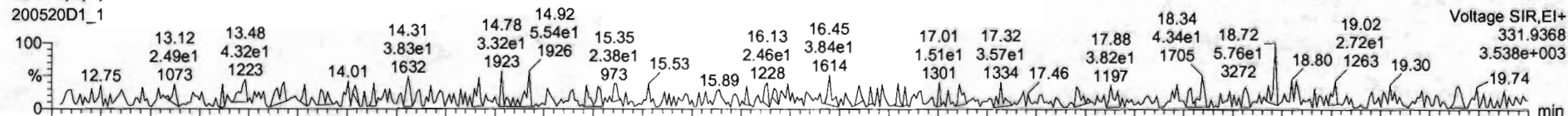


Dataset: U:\VG7.PRO\Results\200520D1\200520D1_1.qld

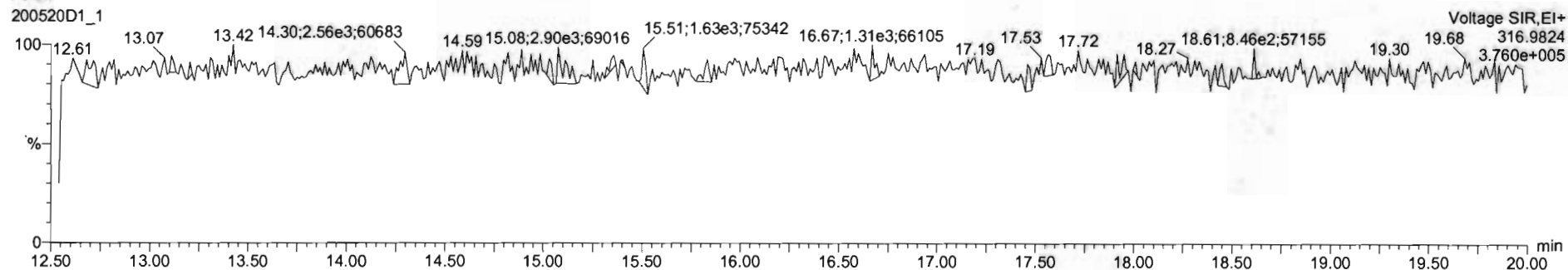
Last Altered: Wednesday, May 20, 2020 13:34:05 Pacific Daylight Time
Printed: Wednesday, May 20, 2020 13:35:13 Pacific Daylight Time

Name: 200520D1_1, Date: 20-May-2020, Time: 12:34:41, ID: CP200520D1-1 DB-225 CPSM, Description: DB-225 CPSM

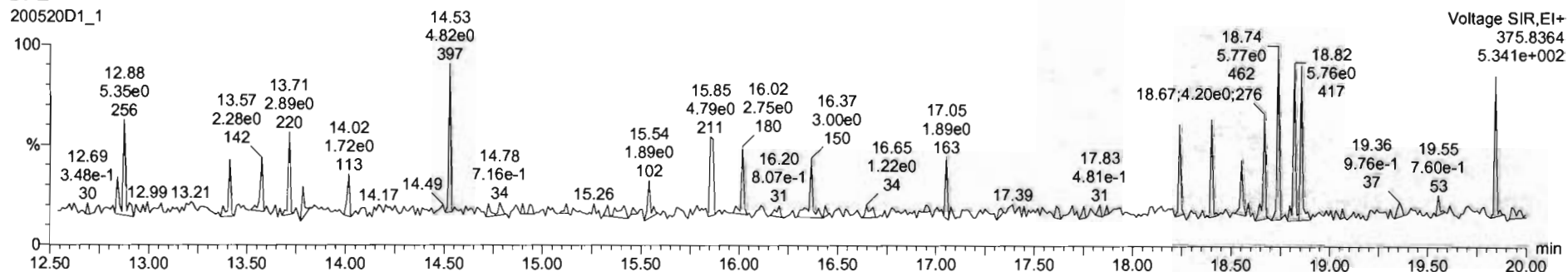
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200520D1\200520D1_2.qld

Last Altered: Wednesday, May 20, 2020 13:28:23 Pacific Daylight Time

Printed: Wednesday, May 20, 2020 13:31:23 Pacific Daylight Time

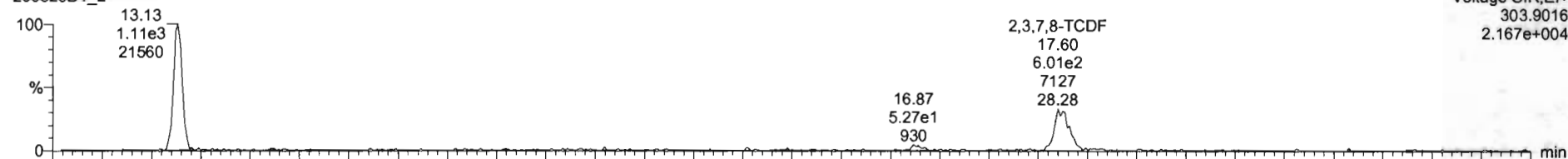
Method: C:\MassLynx\Default.pro\Methdb\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

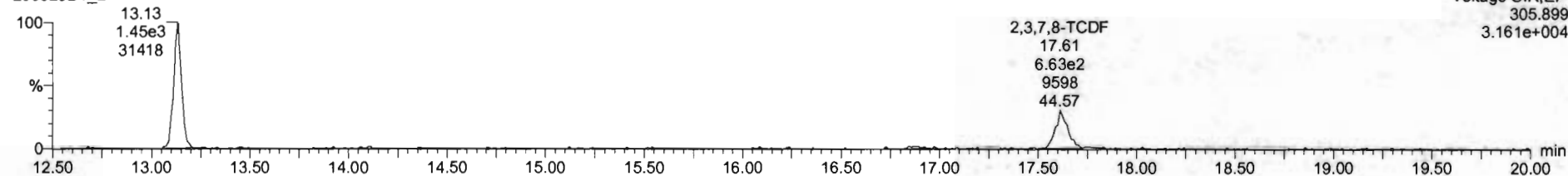
Name: 200520D1_2, Date: 20-May-2020, Time: 13:04:49, ID: ST200520D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200520D1_2

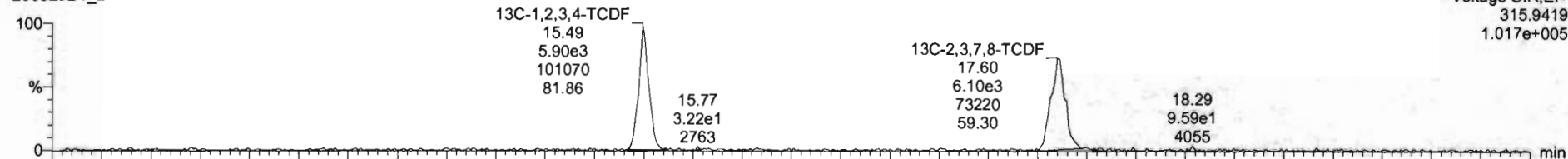


200520D1_2

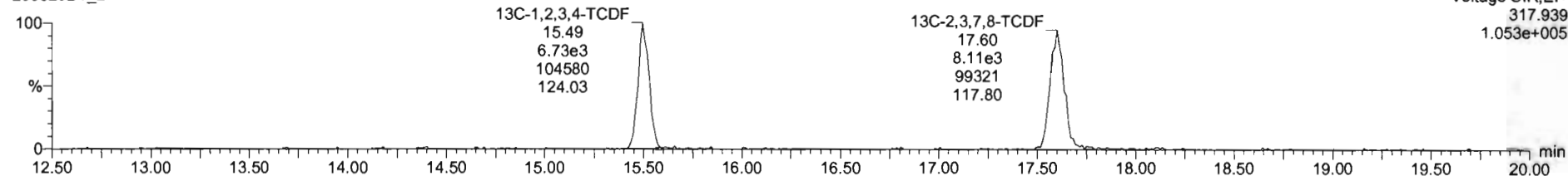


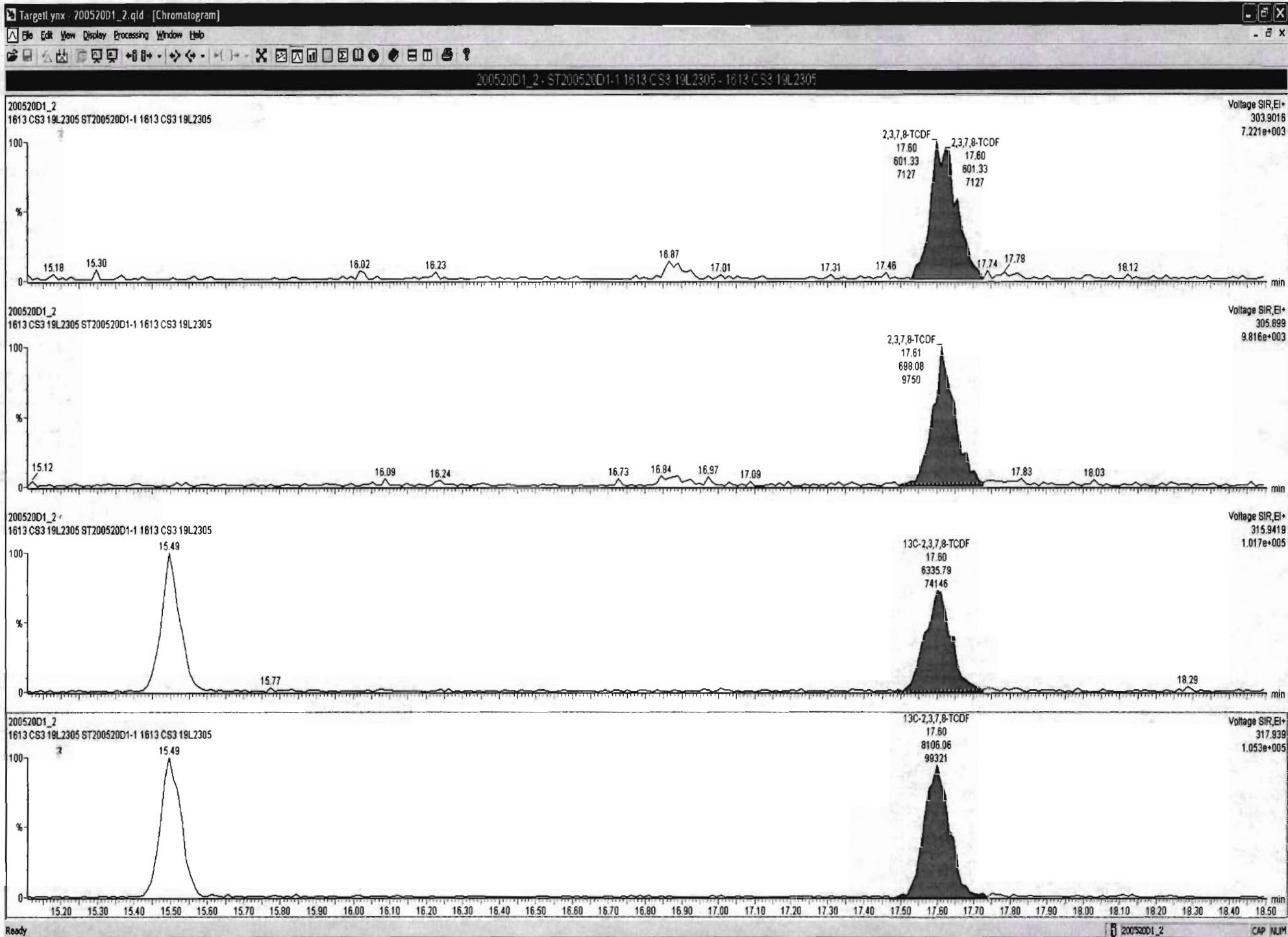
13C-2,3,7,8-TCDF

200520D1_2



200520D1_2





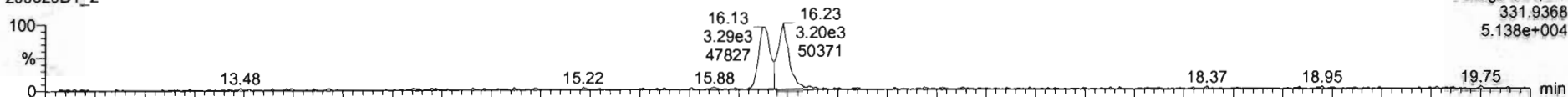
Dataset: U:\VG7.PRO\Results\200520D1\200520D1_2.qld

Last Altered: Wednesday, May 20, 2020 13:28:23 Pacific Daylight Time
Printed: Wednesday, May 20, 2020 13:31:23 Pacific Daylight Time

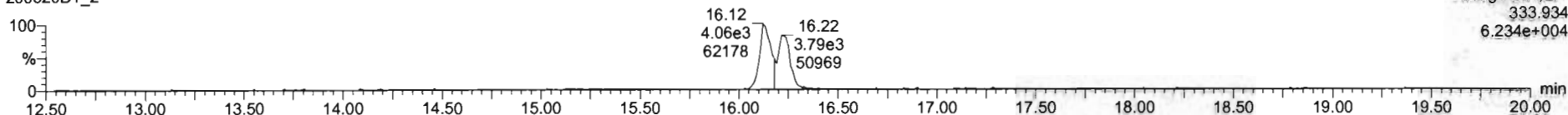
Name: 200520D1_2, Date: 20-May-2020, Time: 13:04:49, ID: ST200520D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200520D1_2

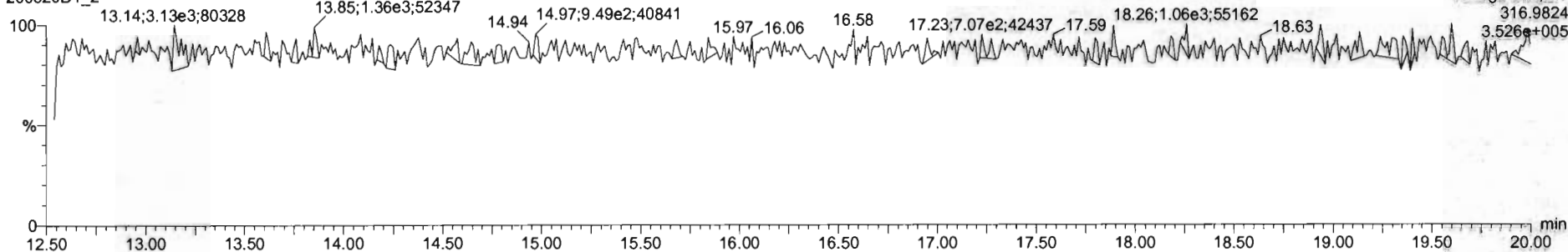


200520D1_2



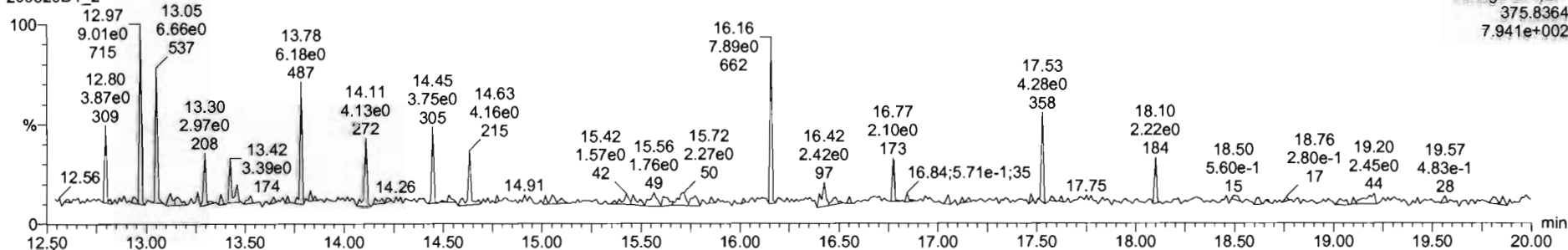
PFK1

200520D1_2



DPE1

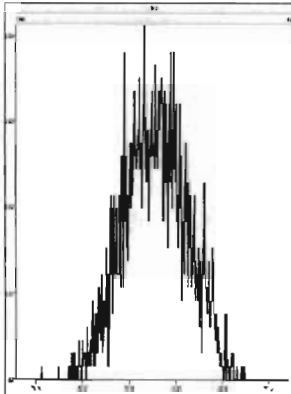
200520D1_2



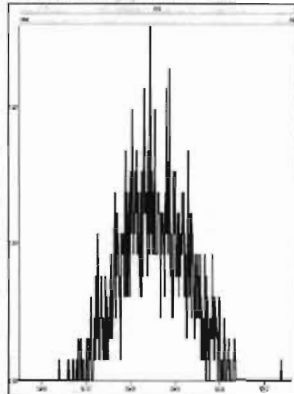
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, May 21, 2020 09:18:23 Pacific Daylight Time

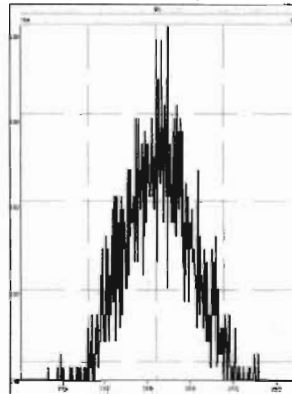
M 292.9824 R 9960



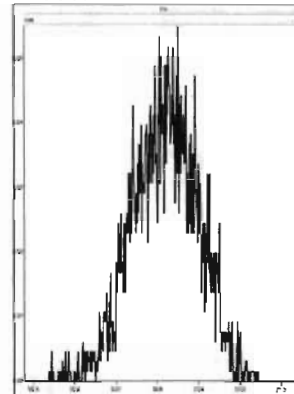
M 304.9824 R 11686



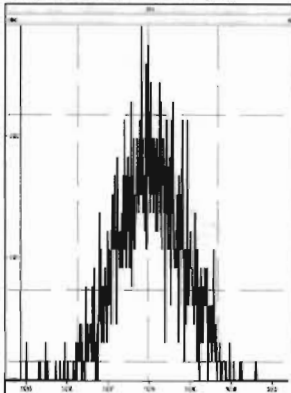
M 318.9792 R 10866



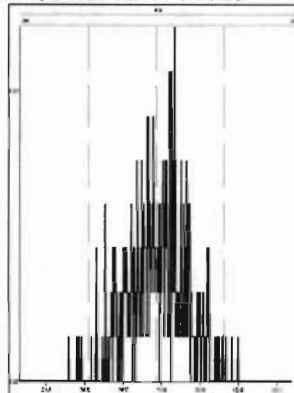
M 330.9792 R 9921



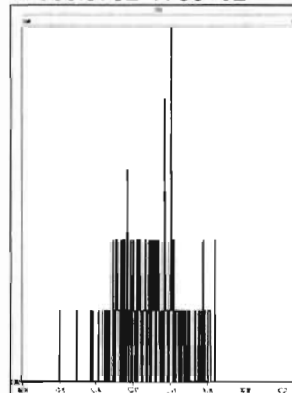
M 342.9792 R 11847



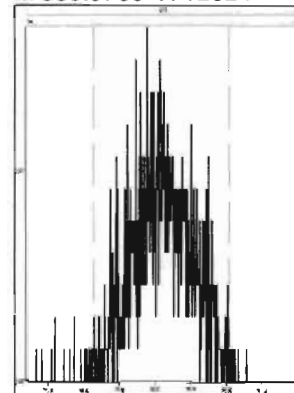
M 354.9792 R 14120



M 366.9792 R 38462



M 380.9760 R 12624



INITIAL CALIBRATION

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

GRB 04/30/2020

CT 04/30/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

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

Response Factor: 0.947465

RRF SD: 0.050672, Relative SD: 5.34817

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	200429R2_1	0.250	0.81	NO	26.07	1.002	3.67e3	1.71e6	0.227	-9.3	0.859	MM
2	200429R2_2	0.500	0.73	NO	26.05	1.001	6.88e3	1.49e6	0.486	-2.8	0.921	MM
3	200429R2_3	2.00	0.80	NO	26.05	1.001	2.77e4	1.43e6	2.04	2.1	0.968	MM
4	200429R2_4	10.0	0.76	NO	26.07	1.001	1.43e5	1.49e6	10.1	0.8	0.955	db
5	200429R2_5	40.0	0.79	NO	26.07	1.001	6.85e5	1.74e6	41.5	3.8	0.983	bb
6	200429R2_6	300	0.78	NO	26.05	1.001	6.08e6	2.03e6	316	5.4	0.998	bb

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

Response Factor: 0.942465

RRF SD: 0.0519271, Relative SD: 5.50971

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	200429R2_1	1.25	0.59	NO	31.13	1.000	1.26e4	1.18e6	1.13	-9.9	0.849	MM
2	200429R2_2	2.50	0.61	NO	31.14	1.000	2.41e4	1.02e6	2.49	-0.4	0.939	bb
3	200429R2_3	10.0	0.62	NO	31.13	1.000	9.99e4	9.92e5	10.7	6.8	1.01	bb
4	200429R2_4	50.0	0.62	NO	31.13	1.000	5.37e5	1.14e6	49.9	-0.2	0.941	bb
5	200429R2_5	200	0.63	NO	31.14	1.000	2.46e6	1.29e6	202	1.0	0.952	bb
6	200429R2_6	1500	0.63	NO	31.13	1.000	2.34e7	1.61e6	1540	2.6	0.967	bb

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time
 Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

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

Response Factor: 1.06409

RRF SD: 0.0704393, Relative SD: 6.61967

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	200429R2_1	1.25	1.23	NO	34.49	1.000	1.06e4	9.05e5	1.10	-12.2	0.934	bd
2	200429R2_2	2.50	1.24	NO	34.51	1.000	2.05e4	7.45e5	2.58	3.2	1.10	bd
3	200429R2_3	10.0	1.25	NO	34.49	1.000	8.24e4	7.52e5	10.3	3.1	1.10	bd
4	200429R2_4	50.0	1.22	NO	34.51	1.000	4.42e5	8.49e5	48.9	-2.2	1.04	MM
5	200429R2_5	200	1.23	NO	34.51	1.000	2.14e6	9.92e5	203	1.5	1.08	bd
6	200429R2_6	1500	1.23	NO	34.49	1.000	2.19e7	1.29e6	1600	6.6	1.13	bd

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

Response Factor: 0.914514

RRF SD: 0.0597197, Relative SD: 6.53021

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	200429R2_1	1.25	1.18	NO	34.60	1.000	1.19e4	1.16e6	1.12	-10.3	0.820	db
2	200429R2_2	2.50	1.19	NO	34.60	1.000	2.18e4	9.85e5	2.42	-3.1	0.886	db
3	200429R2_3	10.0	1.26	NO	34.60	1.000	9.42e4	9.49e5	10.8	8.4	0.992	db
4	200429R2_4	50.0	1.20	NO	34.60	1.000	4.89e5	1.08e6	49.6	-0.9	0.906	MM
5	200429R2_5	200	1.23	NO	34.61	1.000	2.38e6	1.24e6	210	5.0	0.960	db
6	200429R2_6	1500	1.24	NO	34.60	1.001	2.35e7	1.70e6	1510	0.9	0.922	db

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

Response Factor: 0.914931

RRF SD: 0.0698725, Relative SD: 7.63691

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	200429R2_1	1.25	1.17	NO	34.87	1.000	9.95e3	1.02e6	1.07	-14.6	0.782	MM
2	200429R2_2	2.50	1.21	NO	34.88	1.000	1.98e4	8.50e5	2.55	1.9	0.933	MM

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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	200429R2_3	10.0	1.24	NO	34.88	1.001	8.11e4	8.34e5	10.6	6.3	0.973	bb
4	200429R2_4	50.0	1.24	NO	34.88	1.000	4.19e5	9.34e5	49.1	-1.8	0.898	bb
5	200429R2_5	200	1.24	NO	34.89	1.001	2.07e6	1.09e6	208	4.2	0.953	bb
6	200429R2_6	1500	1.23	NO	34.87	1.000	2.08e7	1.46e6	1560	4.0	0.951	bb

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

Response Factor: 0.897908

RRF SD: 0.0622499, Relative SD: 6.93277

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	200429R2_1	1.25	1.08	NO	38.38	1.001	7.93e3	8.17e5	1.08	-13.5	0.777	bb
2	200429R2_2	2.50	1.01	NO	38.37	1.000	1.48e4	6.60e5	2.50	-0.2	0.896	MM
3	200429R2_3	10.0	1.08	NO	38.36	1.000	5.91e4	6.39e5	10.3	3.1	0.925	bd
4	200429R2_4	50.0	0.99	NO	38.38	1.000	3.08e5	6.79e5	50.5	1.0	0.907	bb
5	200429R2_5	200	1.02	NO	38.38	1.000	1.52e6	8.11e5	208	4.1	0.934	bb
6	200429R2_6	1500	1.02	NO	38.37	1.001	1.60e7	1.13e6	1580	5.6	0.948	bb

Compound name: OCDD

Response Factor: 0.93349

RRF SD: 0.0706604, Relative SD: 7.56949

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	200429R2_1	2.50	0.86	NO	41.35	1.000	1.41e4	1.42e6	2.13	-14.8	0.796	MM
2	200429R2_2	5.00	0.91	NO	41.35	1.000	2.79e4	1.21e6	4.96	-0.8	0.926	bd
3	200429R2_3	20.0	0.88	NO	41.34	1.000	1.08e5	1.10e6	21.2	5.8	0.988	MM
4	200429R2_4	100	0.88	NO	41.35	1.000	5.63e5	1.18e6	102	2.5	0.957	MM
5	200429R2_5	400	0.90	NO	41.35	1.000	2.87e6	1.50e6	411	2.7	0.959	MM
6	200429R2_6	3000	0.89	NO	41.34	1.000	3.39e7	2.31e6	3140	4.6	0.976	MM

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

Response Factor: 0.787102

RRF SD: 0.0402419, Relative SD: 5.11266

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	200429R2_1	0.250	0.82	NO	25.09	1.001	4.51e3	2.52e6	0.228	-8.9	0.717	MM
2	200429R2_2	0.500	0.75	NO	25.11	1.001	8.73e3	2.22e6	0.501	0.1	0.788	MM
3	200429R2_3	2.00	0.74	NO	25.11	1.001	3.42e4	2.09e6	2.08	4.1	0.820	bb
4	200429R2_4	10.0	0.74	NO	25.11	1.001	1.65e5	2.15e6	9.76	-2.4	0.768	bb
5	200429R2_5	40.0	0.75	NO	25.12	1.001	8.12e5	2.52e6	41.0	2.4	0.806	bb
6	200429R2_6	300	0.75	NO	25.09	1.001	7.19e6	2.91e6	314	4.7	0.824	bb

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

Response Factor: 0.910199

RRF SD: 0.0533229, Relative SD: 5.85838

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	200429R2_1	1.25	1.63	NO	29.81	1.000	1.97e4	1.94e6	1.12	-10.8	0.812	MM
2	200429R2_2	2.50	1.54	NO	29.83	1.000	3.85e4	1.69e6	2.50	0.1	0.911	MM
3	200429R2_3	10.0	1.57	NO	29.81	1.000	1.60e5	1.64e6	10.7	7.0	0.974	bb
4	200429R2_4	50.0	1.59	NO	29.81	1.000	8.46e5	1.86e6	50.0	0.0	0.910	bb
5	200429R2_5	200	1.55	NO	29.83	1.000	3.84e6	2.07e6	203	1.7	0.926	bb
6	200429R2_6	1500	1.56	NO	29.81	1.000	3.59e7	2.58e6	1530	1.9	0.928	bb

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

Response Factor: 0.96636

RRF SD: 0.0480881, Relative SD: 4.97621

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	200429R2_1	1.25	1.49	NO	30.80	1.000	2.03e4	1.84e6	1.14	-8.8	0.881	MM
2	200429R2_2	2.50	1.53	NO	30.82	1.000	3.90e4	1.62e6	2.50	-0.1	0.966	MM

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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	200429R2_3	10.0	1.60	NO	30.80	1.000	1.61e5	1.57e6	10.6	6.4	1.03	bb
4	200429R2_4	50.0	1.56	NO	30.80	1.000	8.75e5	1.82e6	49.8	-0.4	0.962	bb
5	200429R2_5	200	1.55	NO	30.82	1.000	3.97e6	2.01e6	204	2.1	0.987	bb
6	200429R2_6	1500	1.54	NO	30.81	1.000	3.66e7	2.51e6	1510	0.7	0.973	bb

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

Response Factor: 0.878238

RRF SD: 0.066642, Relative SD: 7.58815

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	200429R2_1	1.25	1.13	NO	33.64	1.001	1.14e4	1.22e6	1.06	-14.9	0.748	bd
2	200429R2_2	2.50	1.21	NO	33.64	1.000	2.26e4	1.02e6	2.52	0.9	0.886	bd
3	200429R2_3	10.0	1.22	NO	33.63	1.000	9.51e4	1.02e6	10.6	6.4	0.935	bd
4	200429R2_4	50.0	1.22	NO	33.64	1.000	5.03e5	1.13e6	50.6	1.1	0.888	bd
5	200429R2_5	200	1.19	NO	33.64	1.000	2.34e6	1.31e6	204	2.1	0.896	bd
6	200429R2_6	1500	1.19	NO	33.63	1.000	2.35e7	1.71e6	1570	4.4	0.917	bd

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

Response Factor: 0.873971

RRF SD: 0.0632141, Relative SD: 7.23298

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	200429R2_1	1.25	1.23	NO	33.76	1.001	1.35e4	1.41e6	1.09	-12.6	0.763	MM
2	200429R2_2	2.50	1.19	NO	33.76	1.000	2.55e4	1.18e6	2.46	-1.4	0.861	db
3	200429R2_3	10.0	1.20	NO	33.76	1.001	1.09e5	1.14e6	11.0	9.5	0.957	dd
4	200429R2_4	50.0	1.17	NO	33.76	1.000	5.58e5	1.26e6	50.6	1.2	0.885	db
5	200429R2_5	200	1.19	NO	33.77	1.001	2.62e6	1.46e6	205	2.7	0.897	db
6	200429R2_6	1500	1.19	NO	33.75	1.000	2.52e7	1.91e6	1510	0.7	0.880	db

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

Response Factor: 0.921711

RRF SD: 0.0708547, Relative SD: 7.6873

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	200429R2_1	1.25	1.14	NO	34.32	1.000	1.24e4	1.26e6	1.07	-14.7	0.786	bb
2	200429R2_2	2.50	1.16	NO	34.33	1.001	2.38e4	1.05e6	2.46	-1.5	0.908	MM
3	200429R2_3	10.0	1.22	NO	34.32	1.000	1.02e5	1.03e6	10.7	7.1	0.987	bb
4	200429R2_4	50.0	1.17	NO	34.33	1.000	5.42e5	1.14e6	51.6	3.2	0.951	bb
5	200429R2_5	200	1.19	NO	34.33	1.000	2.49e6	1.31e6	206	3.0	0.950	bb
6	200429R2_6	1500	1.19	NO	34.33	1.000	2.48e7	1.74e6	1540	2.9	0.948	bb

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

Response Factor: 0.864187

RRF SD: 0.0516808, Relative SD: 5.98028

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	200429R2_1	1.25	1.22	NO	35.21	1.000	9.52e3	9.91e5	1.11	-11.0	0.769	MM
2	200429R2_2	2.50	1.21	NO	35.21	1.000	1.86e4	8.77e5	2.45	-1.8	0.848	MM
3	200429R2_3	10.0	1.22	NO	35.21	1.000	7.78e4	8.59e5	10.5	4.9	0.906	bb
4	200429R2_4	50.0	1.17	NO	35.22	1.000	4.02e5	9.29e5	50.1	0.2	0.866	bb
5	200429R2_5	200	1.19	NO	35.22	1.000	1.99e6	1.11e6	207	3.7	0.896	bb
6	200429R2_6	1500	1.20	NO	35.21	1.000	1.98e7	1.47e6	1560	4.0	0.899	bb

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

Response Factor: 0.871204

RRF SD: 0.0656544, Relative SD: 7.53606

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	200429R2_1	1.25	0.99	NO	36.94	1.000	8.60e3	9.24e5	1.07	-14.5	0.745	MM
2	200429R2_2	2.50	1.00	NO	36.97	1.001	1.73e4	7.84e5	2.54	1.5	0.884	MM

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	10.0	0.95	NO	36.96	1.000	6.95e4	7.69e5	10.4	3.7	0.903	MM
4	200429R2_4	50.0	0.96	NO	36.97	1.000	3.72e5	8.65e5	49.4	-1.2	0.861	bb
5	200429R2_5	200	0.99	NO	36.97	1.000	1.79e6	9.81e5	210	5.0	0.914	bb
6	200429R2_6	1500	0.99	NO	36.96	1.001	1.89e7	1.37e6	1580	5.5	0.919	bb

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

Response Factor: 1.01156

RRF SD: 0.0670054, Relative SD: 6.62397

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	200429R2_1	1.25	0.97	NO	38.95	1.000	6.68e3	5.96e5	1.11	-11.4	0.897	MM
2	200429R2_2	2.50	0.96	NO	38.95	1.000	1.20e4	4.92e5	2.41	-3.7	0.974	MM
3	200429R2_3	10.0	1.01	NO	38.95	1.000	4.94e4	4.72e5	10.4	3.5	1.05	MM
4	200429R2_4	50.0	1.00	NO	38.96	1.000	2.60e5	5.12e5	50.2	0.3	1.01	bb
5	200429R2_5	200	0.99	NO	38.96	1.000	1.29e6	6.09e5	209	4.7	1.06	bb
6	200429R2_6	1500	0.99	NO	38.94	1.000	1.43e7	8.85e5	1600	6.5	1.08	bb

Compound name: OCDF

Response Factor: 0.802147

RRF SD: 0.0574516, Relative SD: 7.16223

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	200429R2_1	2.50	0.84	NO	41.52	1.000	1.41e4	1.62e6	2.17	-13.4	0.695	MM
2	200429R2_2	5.00	0.85	NO	41.52	1.000	2.74e4	1.40e6	4.88	-2.4	0.783	MM
3	200429R2_3	20.0	0.88	NO	41.52	1.000	1.07e5	1.27e6	21.0	5.0	0.842	bb
4	200429R2_4	100	0.86	NO	41.53	1.000	5.36e5	1.32e6	101	1.3	0.813	bb
5	200429R2_5	400	0.87	NO	41.53	1.000	2.84e6	1.69e6	420	5.0	0.842	bb
6	200429R2_6	3000	0.87	NO	41.52	1.000	3.30e7	2.63e6	3130	4.4	0.838	bb

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

Response Factor: 1.15948

RRF SD: 0.103741, Relative SD: 8.94721

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	200429R2_1	100	0.79	NO	26.02	1.027	1.71e6	1.32e6	112	11.9	1.30	bb
2	200429R2_2	100	0.79	NO	26.03	1.027	1.49e6	1.44e6	89.7	-10.3	1.04	bb
3	200429R2_3	100	0.80	NO	26.02	1.026	1.43e6	1.38e6	89.4	-10.6	1.04	bb
4	200429R2_4	100	0.80	NO	26.03	1.027	1.49e6	1.28e6	100	0.3	1.16	bb
5	200429R2_5	100	0.79	NO	26.03	1.027	1.74e6	1.45e6	103	3.3	1.20	MM
6	200429R2_6	100	0.79	NO	26.02	1.027	2.03e6	1.66e6	105	5.4	1.22	bb

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

Response Factor: 0.847234

RRF SD: 0.105802, Relative SD: 12.488

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	200429R2_1	100	0.64	NO	31.11	1.227	1.18e6	1.32e6	106	6.2	0.900	bb
2	200429R2_2	100	0.65	NO	31.13	1.227	1.02e6	1.44e6	84.2	-15.8	0.713	bb
3	200429R2_3	100	0.64	NO	31.11	1.227	9.92e5	1.38e6	84.9	-15.1	0.719	bb
4	200429R2_4	100	0.65	NO	31.11	1.227	1.14e6	1.28e6	105	5.0	0.889	bb
5	200429R2_5	100	0.63	NO	31.13	1.227	1.29e6	1.45e6	105	5.1	0.890	bb
6	200429R2_6	100	0.64	NO	31.11	1.227	1.61e6	1.66e6	115	14.6	0.971	bb

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

Response Factor: 0.749916

RRF SD: 0.0958664, Relative SD: 12.7836

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	200429R2_1	100	1.27	NO	34.48	1.014	9.05e5	1.10e6	109	9.5	0.821	bd
2	200429R2_2	100	1.30	NO	34.49	1.014	7.45e5	1.19e6	83.5	-16.5	0.626	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	200429R2_3	100	1.29	NO	34.48	1.014	7.52e5	1.15e6	87.1	-12.9	0.653	bd
4	200429R2_4	100	1.29	NO	34.49	1.014	8.49e5	1.15e6	98.6	-1.4	0.739	bd
5	200429R2_5	100	1.28	NO	34.49	1.014	9.92e5	1.26e6	105	5.3	0.790	bd
6	200429R2_6	100	1.27	NO	34.48	1.014	1.29e6	1.48e6	116	16.0	0.870	bd

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

Response Factor: 0.963047

RRF SD: 0.127006, Relative SD: 13.1879

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	200429R2_1	100	1.28	NO	34.59	1.017	1.16e6	1.10e6	109	9.3	1.05	db
2	200429R2_2	100	1.29	NO	34.59	1.017	9.85e5	1.19e6	85.9	-14.1	0.827	db
3	200429R2_3	100	1.29	NO	34.59	1.017	9.49e5	1.15e6	85.7	-14.3	0.825	db
4	200429R2_4	100	1.26	NO	34.59	1.017	1.08e6	1.15e6	97.7	-2.3	0.941	db
5	200429R2_5	100	1.27	NO	34.60	1.017	1.24e6	1.26e6	102	2.2	0.985	db
6	200429R2_6	100	1.26	NO	34.58	1.017	1.70e6	1.48e6	119	19.2	1.15	db

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

Response Factor: 0.83755

RRF SD: 0.108482, Relative SD: 12.9523

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	200429R2_1	100	1.31	NO	34.86	1.025	1.02e6	1.10e6	110	10.2	0.923	bd
2	200429R2_2	100	1.28	NO	34.87	1.025	8.50e5	1.19e6	85.2	-14.8	0.713	bb
3	200429R2_3	100	1.25	NO	34.86	1.025	8.34e5	1.15e6	86.5	-13.5	0.724	bb
4	200429R2_4	100	1.25	NO	34.87	1.025	9.34e5	1.15e6	97.2	-2.8	0.814	bb
5	200429R2_5	100	1.25	NO	34.87	1.025	1.09e6	1.26e6	103	3.2	0.864	bb
6	200429R2_6	100	1.25	NO	34.86	1.025	1.46e6	1.48e6	118	17.7	0.986	bb

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

Response Factor: 0.641477

RRF SD: 0.0915679, Relative SD: 14.2745

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	200429R2_1	100	1.06	NO	38.35	1.128	8.17e5	1.10e6	116	15.5	0.741	bd
2	200429R2_2	100	1.06	NO	38.36	1.128	6.60e5	1.19e6	86.4	-13.6	0.554	MM
3	200429R2_3	100	1.02	NO	38.36	1.128	6.39e5	1.15e6	86.5	-13.5	0.555	bb
4	200429R2_4	100	1.09	NO	38.37	1.128	6.79e5	1.15e6	92.2	-7.8	0.592	MM
5	200429R2_5	100	1.02	NO	38.37	1.128	8.11e5	1.26e6	101	0.6	0.646	bb
6	200429R2_6	100	1.05	NO	38.35	1.128	1.13e6	1.48e6	119	18.7	0.761	bb

Compound name: 13C-OCDD

Response Factor: 0.586321

RRF SD: 0.114579, Relative SD: 19.5421

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	200429R2_1	200	0.89	NO	41.34	1.216	1.42e6	1.10e6	220	9.8	0.644	MM
2	200429R2_2	200	0.90	NO	41.34	1.215	1.21e6	1.19e6	173	-13.7	0.506	MM
3	200429R2_3	200	0.93	NO	41.33	1.215	1.10e6	1.15e6	162	-18.8	0.476	MM
4	200429R2_4	200	0.93	NO	41.34	1.215	1.18e6	1.15e6	175	-12.5	0.513	MM
5	200429R2_5	200	0.90	NO	41.34	1.215	1.50e6	1.26e6	203	1.7	0.597	MM
6	200429R2_6	200	0.90	NO	41.33	1.215	2.31e6	1.48e6	267	33.4	0.782	MM

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

Response Factor: 1.03447

RRF SD: 0.0994265, Relative SD: 9.61138

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	200429R2_1	100	0.78	NO	25.08	0.989	2.52e6	2.12e6	115	14.8	1.19	bb
2	200429R2_2	100	0.78	NO	25.09	0.989	2.22e6	2.37e6	90.3	-9.7	0.934	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	200429R2_3	100	0.78	NO	25.08	0.989	2.09e6	2.27e6	89.0	-11.0	0.920	bb
4	200429R2_4	100	0.77	NO	25.09	0.989	2.15e6	2.10e6	99.1	-0.9	1.03	bb
5	200429R2_5	100	0.79	NO	25.09	0.989	2.52e6	2.38e6	102	2.1	1.06	bb
6	200429R2_6	100	0.77	NO	25.08	0.989	2.91e6	2.69e6	105	4.7	1.08	bb

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

Response Factor: 0.84507

RRF SD: 0.102566, Relative SD: 12.137

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	200429R2_1	100	1.60	NO	29.80	1.176	1.94e6	2.12e6	108	8.3	0.915	bb
2	200429R2_2	100	1.62	NO	29.81	1.176	1.69e6	2.37e6	84.4	-15.6	0.713	bb
3	200429R2_3	100	1.61	NO	29.80	1.175	1.64e6	2.27e6	85.7	-14.3	0.724	bb
4	200429R2_4	100	1.63	NO	29.80	1.175	1.86e6	2.10e6	105	4.9	0.886	bb
5	200429R2_5	100	1.58	NO	29.81	1.176	2.07e6	2.38e6	103	3.0	0.871	bb
6	200429R2_6	100	1.59	NO	29.80	1.176	2.58e6	2.69e6	114	13.7	0.960	bb

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

Response Factor: 0.814071

RRF SD: 0.103739, Relative SD: 12.7432

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	200429R2_1	100	1.58	NO	30.79	1.215	1.84e6	2.12e6	107	6.7	0.869	bb
2	200429R2_2	100	1.59	NO	30.80	1.215	1.62e6	2.37e6	83.6	-16.4	0.681	db
3	200429R2_3	100	1.58	NO	30.79	1.214	1.57e6	2.27e6	84.8	-15.2	0.691	db
4	200429R2_4	100	1.60	NO	30.79	1.214	1.82e6	2.10e6	107	6.5	0.867	db
5	200429R2_5	100	1.60	NO	30.80	1.215	2.01e6	2.38e6	104	3.7	0.844	db
6	200429R2_6	100	1.58	NO	30.79	1.215	2.51e6	2.69e6	115	14.6	0.933	db

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

Response Factor: 1.00488

RRF SD: 0.118528, Relative SD: 11.7952

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	200429R2_1	100	0.50	NO	33.62	0.989	1.22e6	1.10e6	110	10.1	1.11	bd
2	200429R2_2	100	0.51	NO	33.63	0.989	1.02e6	1.19e6	85.4	-14.6	0.858	bd
3	200429R2_3	100	0.51	NO	33.62	0.988	1.02e6	1.15e6	88.0	-12.0	0.884	bd
4	200429R2_4	100	0.51	NO	33.63	0.989	1.13e6	1.15e6	98.3	-1.7	0.987	bd
5	200429R2_5	100	0.51	NO	33.63	0.988	1.31e6	1.26e6	103	3.5	1.04	bd
6	200429R2_6	100	0.51	NO	33.62	0.989	1.71e6	1.48e6	115	14.9	1.15	bd

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

Response Factor: 1.13681

RRF SD: 0.13421, Relative SD: 11.8059

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	200429R2_1	100	0.51	NO	33.74	0.992	1.41e6	1.10e6	113	12.9	1.28	db
2	200429R2_2	100	0.52	NO	33.75	0.992	1.18e6	1.19e6	87.4	-12.6	0.994	db
3	200429R2_3	100	0.51	NO	33.74	0.992	1.14e6	1.15e6	87.0	-13.0	0.990	db
4	200429R2_4	100	0.51	NO	33.75	0.992	1.26e6	1.15e6	96.7	-3.3	1.10	db
5	200429R2_5	100	0.51	NO	33.75	0.992	1.46e6	1.26e6	102	2.3	1.16	db
6	200429R2_6	100	0.51	NO	33.74	0.992	1.91e6	1.48e6	114	13.7	1.29	db

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

Response Factor: 1.02233

RRF SD: 0.123256, Relative SD: 12.0564

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	200429R2_1	100	0.52	NO	34.31	1.009	1.26e6	1.10e6	112	11.8	1.14	MM
2	200429R2_2	100	0.51	NO	34.31	1.009	1.05e6	1.19e6	86.2	-13.8	0.881	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	200429R2_3	100	0.52	NO	34.31	1.009	1.03e6	1.15e6	87.6	-12.4	0.895	bb
4	200429R2_4	100	0.51	NO	34.33	1.009	1.14e6	1.15e6	97.2	-2.8	0.993	bb
5	200429R2_5	100	0.51	NO	34.33	1.009	1.31e6	1.26e6	102	2.1	1.04	bb
6	200429R2_6	100	0.51	NO	34.31	1.009	1.74e6	1.48e6	115	15.2	1.18	bb

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

Response Factor: 0.844773

RRF SD: 0.0991685, Relative SD: 11.7391

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	200429R2_1	100	0.51	NO	35.20	1.035	9.91e5	1.10e6	106	6.4	0.899	bb
2	200429R2_2	100	0.51	NO	35.20	1.035	8.77e5	1.19e6	87.2	-12.8	0.737	bb
3	200429R2_3	100	0.50	NO	35.20	1.035	8.59e5	1.15e6	88.3	-11.7	0.746	bb
4	200429R2_4	100	0.51	NO	35.21	1.035	9.29e5	1.15e6	95.9	-4.1	0.810	MM
5	200429R2_5	100	0.51	NO	35.21	1.035	1.11e6	1.26e6	105	4.6	0.883	bb
6	200429R2_6	100	0.52	NO	35.20	1.035	1.47e6	1.48e6	118	17.6	0.994	bb

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

Response Factor: 0.771212

RRF SD: 0.102676, Relative SD: 13.3136

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	200429R2_1	100	0.43	NO	36.93	1.086	9.24e5	1.10e6	109	8.6	0.838	bb
2	200429R2_2	100	0.43	NO	36.94	1.086	7.84e5	1.19e6	85.4	-14.6	0.659	bb
3	200429R2_3	100	0.44	NO	36.94	1.086	7.69e5	1.15e6	86.7	-13.3	0.668	bd
4	200429R2_4	100	0.43	NO	36.96	1.086	8.65e5	1.15e6	97.7	-2.3	0.754	bd
5	200429R2_5	100	0.42	NO	36.96	1.086	9.81e5	1.26e6	101	1.2	0.781	bb
6	200429R2_6	100	0.44	NO	36.93	1.086	1.37e6	1.48e6	120	20.3	0.928	bb

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

Response Factor: 0.482289

RRF SD: 0.0750769, Relative SD: 15.5668

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	200429R2_1	100	0.41	NO	38.94	1.145	5.96e5	1.10e6	112	12.1	0.541	bb
2	200429R2_2	100	0.44	NO	38.94	1.145	4.92e5	1.19e6	85.7	-14.3	0.413	MM
3	200429R2_3	100	0.45	NO	38.94	1.145	4.72e5	1.15e6	85.0	-15.0	0.410	MM
4	200429R2_4	100	0.44	NO	38.95	1.145	5.12e5	1.15e6	92.5	-7.5	0.446	MM
5	200429R2_5	100	0.43	NO	38.95	1.145	6.09e5	1.26e6	101	0.6	0.485	bb
6	200429R2_6	100	0.43	NO	38.93	1.145	8.85e5	1.48e6	124	24.1	0.598	bb

Compound name: 13C-OCDF

Response Factor: 0.668505

RRF SD: 0.127842, Relative SD: 19.1235

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	200429R2_1	200	0.88	NO	41.51	1.221	1.62e6	1.10e6	220	9.9	0.735	bb
2	200429R2_2	200	0.86	NO	41.51	1.220	1.40e6	1.19e6	176	-12.0	0.588	MM
3	200429R2_3	200	0.89	NO	41.51	1.220	1.27e6	1.15e6	165	-17.4	0.552	bd
4	200429R2_4	200	0.88	NO	41.52	1.221	1.32e6	1.15e6	172	-14.0	0.575	bb
5	200429R2_5	200	0.87	NO	41.52	1.220	1.69e6	1.26e6	201	0.5	0.672	bb
6	200429R2_6	200	0.88	NO	41.51	1.221	2.63e6	1.48e6	266	33.0	0.889	bb

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

Response Factor: 1.09842

RRF SD: 0.0959308, Relative SD: 8.73354

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	200429R2_1	0.250			26.05	1.028	3.33e3	1.32e6	0.230	-7.9	1.01	bb
2	200429R2_2	0.500			26.07	1.028	7.64e3	1.44e6	0.484	-3.2	1.06	bb

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Compound name: 37CI-2,3,7,8-TCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	2.00			26.05	1.027	2.74e4	1.38e6	1.81	-9.5	0.994	bd
4	200429R2_4	10.0			26.05	1.027	1.41e5	1.28e6	10.0	0.4	1.10	bb
5	200429R2_5	40.0			26.07	1.028	6.87e5	1.45e6	43.0	7.5	1.18	bb
6	200429R2_6	200			26.05	1.028	4.11e6	1.66e6	225	12.7	1.24	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	200429R2_1	100	0.80	NO	25.35	1.000	1.32e6	1.32e6	100	0.0	1.00	bb
2	200429R2_2	100	0.80	NO	25.36	1.000	1.44e6	1.44e6	100	0.0	1.00	bb
3	200429R2_3	100	0.81	NO	25.36	1.000	1.38e6	1.38e6	100	0.0	1.00	bb
4	200429R2_4	100	0.80	NO	25.36	1.000	1.28e6	1.28e6	100	0.0	1.00	bb
5	200429R2_5	100	0.81	NO	25.36	1.000	1.45e6	1.45e6	100	0.0	1.00	bb
6	200429R2_6	100	0.80	NO	25.35	1.000	1.66e6	1.66e6	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	200429R2_1	100	0.79	NO	23.57	1.000	2.12e6	2.12e6	100	0.0	1.00	bb
2	200429R2_2	100	0.79	NO	23.58	1.000	2.37e6	2.37e6	100	0.0	1.00	bb
3	200429R2_3	100	0.79	NO	23.58	1.000	2.27e6	2.27e6	100	0.0	1.00	bb
4	200429R2_4	100	0.79	NO	23.59	1.000	2.10e6	2.10e6	100	0.0	1.00	bb
5	200429R2_5	100	0.79	NO	23.59	1.000	2.38e6	2.38e6	100	0.0	1.00	bb
6	200429R2_6	100	0.79	NO	23.57	1.000	2.69e6	2.69e6	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	200429R2_1	100	0.51	NO	34.01	1.000	1.10e6	1.10e6	100	0.0	1.00	bb
2	200429R2_2	100	0.50	NO	34.01	1.000	1.19e6	1.19e6	100	0.0	1.00	bb
3	200429R2_3	100	0.51	NO	34.01	1.000	1.15e6	1.15e6	100	0.0	1.00	bb
4	200429R2_4	100	0.50	NO	34.01	1.000	1.15e6	1.15e6	100	0.0	1.00	bb
5	200429R2_5	100	0.51	NO	34.03	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
6	200429R2_6	100	0.51	NO	34.01	1.000	1.48e6	1.48e6	100	0.0	1.00	bb

Dataset: Untitled

Last Altered: Thursday, April 30, 2020 8:40:02 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 8:40:20 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200429R2_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.90
2	2 1,2,8,9-TCDD (Last)	27.05
3	3 1,2,4,7,9-PeCDD (First)	28.88
4	4 1,2,3,8,9-PeCDD (Last)	31.52
5	5 1,2,4,6,7,9-HxCDD (First)	33.04
6	6 1,2,3,7,8,9-HxCDD (Last)	34.88
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.35
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.38
9	9 1,3,6,8-TCDF (First)	19.85
10	10 1,2,8,9-TCDF (Last)	27.19
11	11 1,3,4,6,8-PeCDF (First)	27.17
12	12 1,2,3,8,9-PeCDF (Last)	31.75
13	13 1,2,3,4,6,8-HxCDF (First)	32.47
14	14 1,2,3,7,8,9-HxCDF (Last)	35.22
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.97
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.96

Dataset: Untitled

Last Altered: Thursday, April 30, 2020 8:40:02 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 8:40:20 AM Pacific Daylight Time

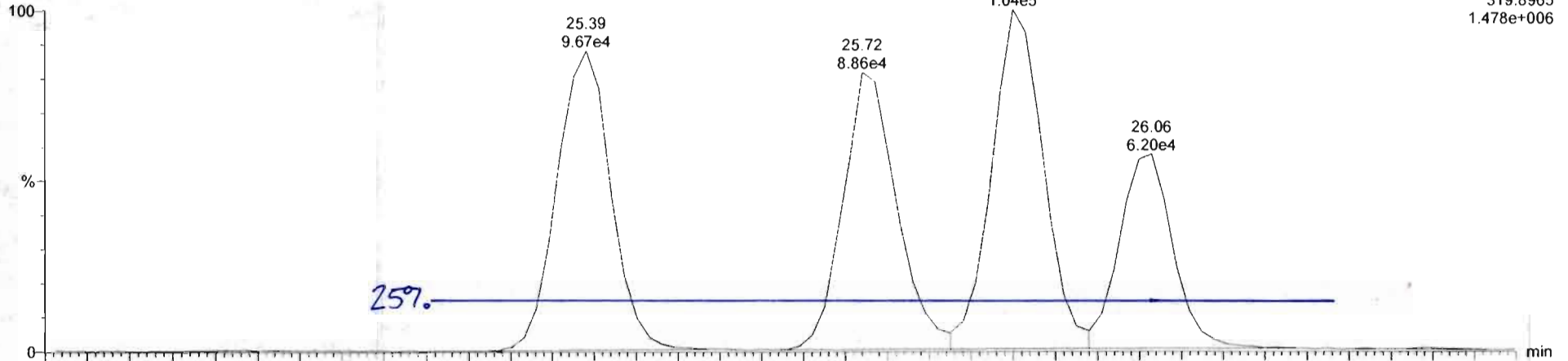
GPB 04/30/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200429R2_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

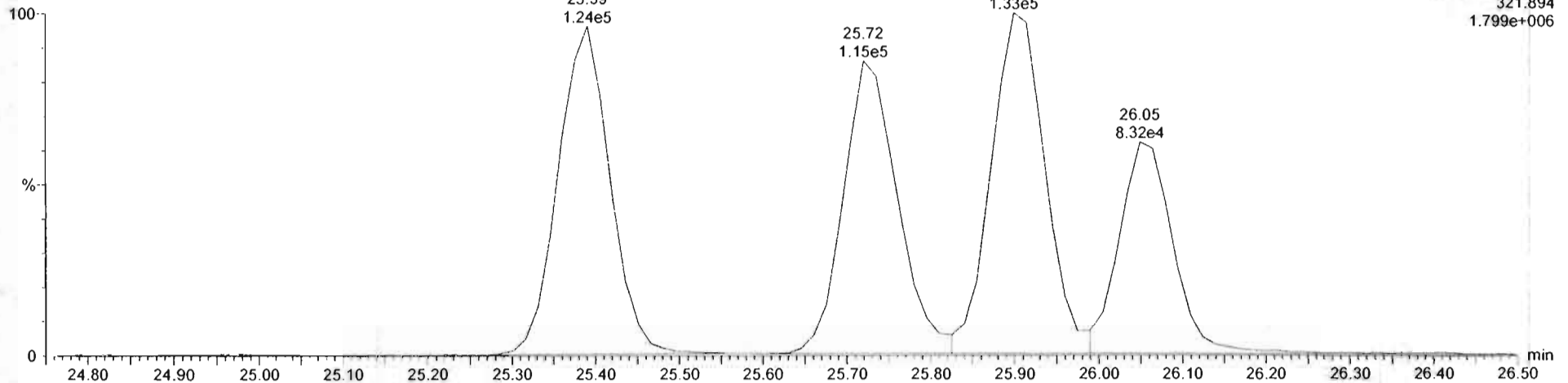
1,3,6,8-TCDD (First)
200429R2_4

F1:Voltage SIR,EI+
319.8965
1.478e+006



200429R2_4

F1:Voltage SIR,EI+
321.894
1.799e+006



Dataset: Untitled

Last Altered: Thursday, April 30, 2020 8:40:43 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 8:41:41 AM Pacific Daylight Time

Method: U:\VG12.PROMethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

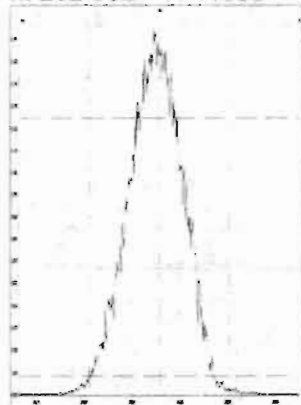
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200429R2_1	ST200429R2_1 1613 CS0 19L2302	29-Apr-20	13:27:25
2	200429R2_2	ST200429R2_2 1613 CS1 19L2303	29-Apr-20	14:15:04
3	200429R2_3	ST200429R2_3 1613 CS2 19L2304	29-Apr-20	15:02:24
4	200429R2_4	ST200429R2_4 1613 CS3 19L2305	29-Apr-20	15:48:39
5	200429R2_5	ST200429R2_5 1613 CS4 19L2306	29-Apr-20	16:35:58
6	200429R2_6	ST200429R2_6 1613 CS5 19L2307	29-Apr-20	17:23:21
7	200429R2_7	SOLVENT BLANK	29-Apr-20	18:10:44
8	200429R2_8	SS200429R2_1 1613 SSS 19L2308	29-Apr-20	18:58:05
9	200429R2_9	B0C0304-BS4 OPR 10	29-Apr-20	19:54:24
10	200429R2_10	B0C0304-BS3 OPR 10	29-Apr-20	20:40:38
11	200429R2_11	B0C0304-BS2 OPR 10	29-Apr-20	21:28:00
12	200429R2_12	B0C0304-BS1 OPR 10	29-Apr-20	22:15:28
13	200429R2_13	B0D0053-BS4 OPR 10	29-Apr-20	23:02:49
14	200429R2_14	B0D0053-BS3 OPR 10	29-Apr-20	23:50:11
15	200429R2_15	B0D0053-BS2 OPR 10	30-Apr-20	00:37:32
16	200429R2_16	B0D0053-BS1 OPR 10	30-Apr-20	01:24:55
17	200429R2_17	SOLVENT BLANK	30-Apr-20	02:12:17
18	200429R2_18	B0D0053-BLK1 Method Blank 10	30-Apr-20	02:59:37
19	200429R2_19	SOLVENT BLANK	30-Apr-20	03:55:52

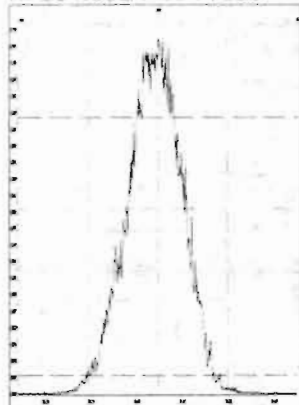
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, April 29, 2020 13:21:30 Pacific Daylight Time

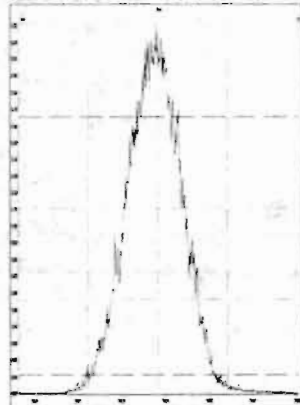
M 292.9824 R 11363



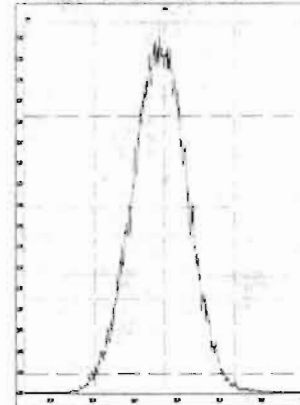
M 304.9824 R 11059



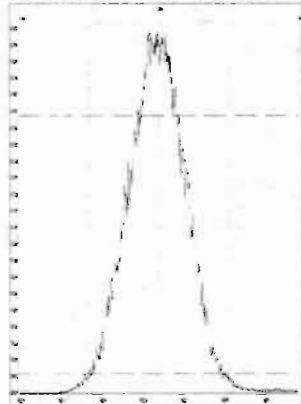
M 318.9792 R 11211



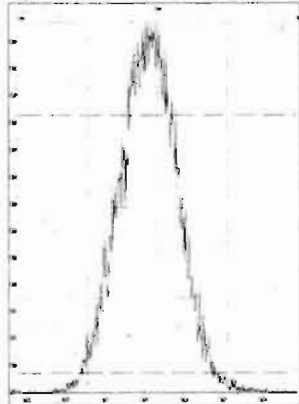
M 330.9792 R 11311



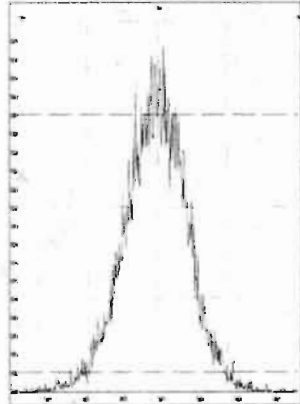
M 342.9792 R 10772



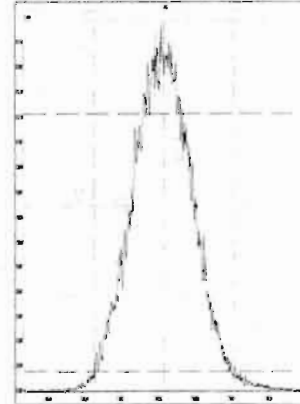
M 354.9792 R 10729



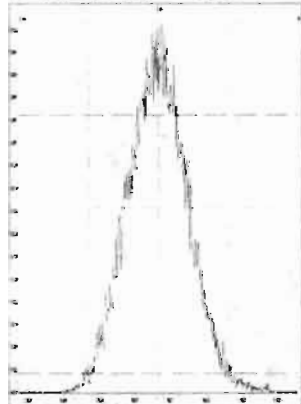
M 366.9792 R 10078



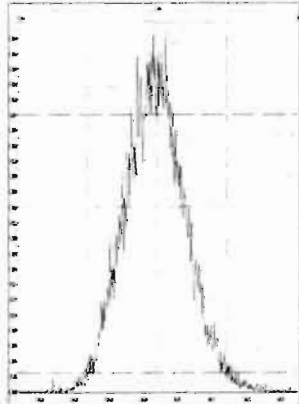
M 380.9760 R 10288



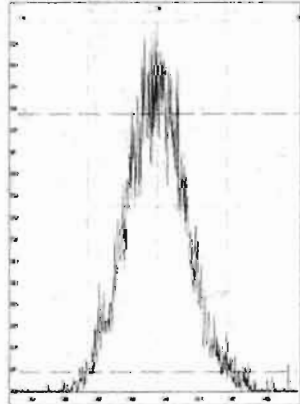
M 392.9760 R 10371



M 404.9760 R 10417



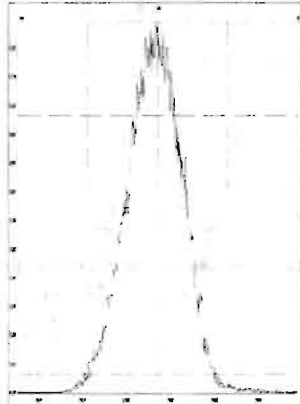
M 416.9760 R 10964



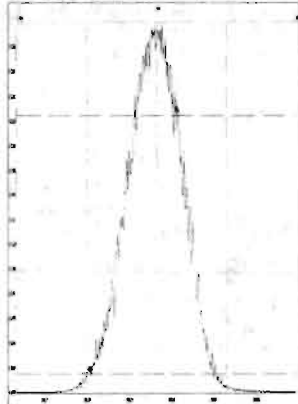
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, April 29, 2020 13:22:18 Pacific Daylight Time

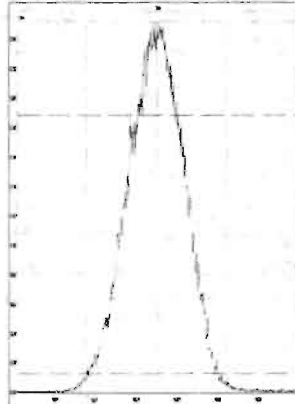
M 318.9792 R 11365



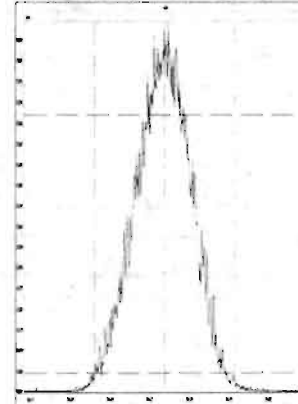
M 330.9792 R 11420



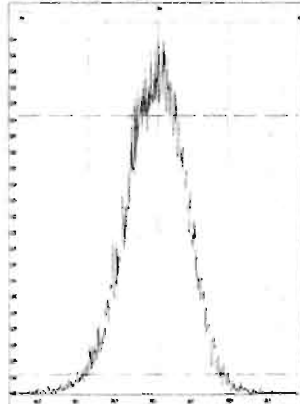
M 342.9792 R 10824



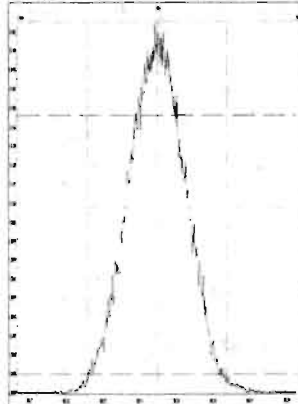
M 354.9792 R 11312



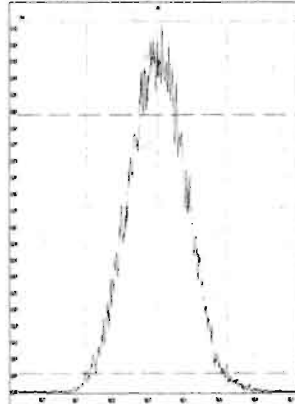
M 366.9792 R 10371



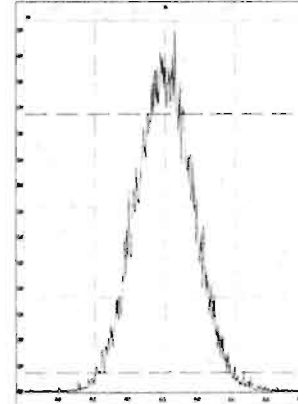
M 380.9760 R 10772



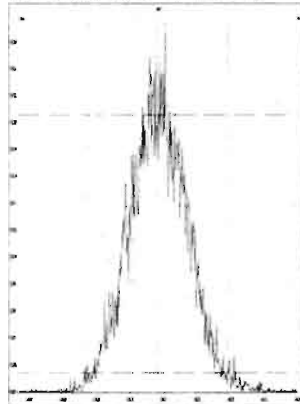
M 392.9760 R 10916



M 404.9760 R 10370



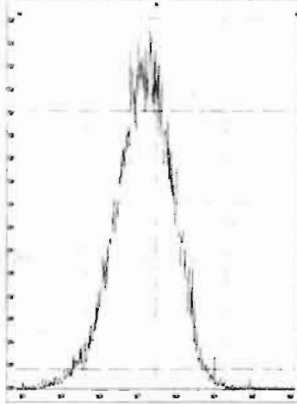
M 416.9760 R 10916



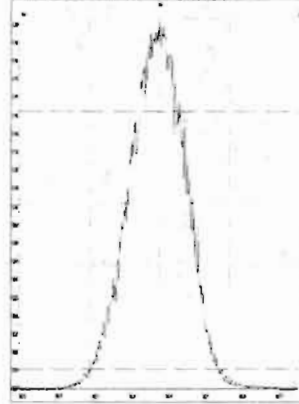
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, April 29, 2020 13:22:48 Pacific Daylight Time

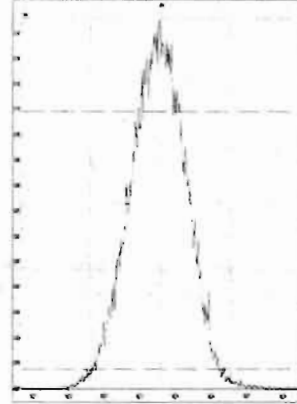
M 366.9792 R 11519



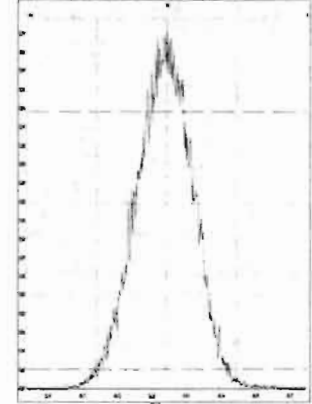
M 380.9760 R 10914



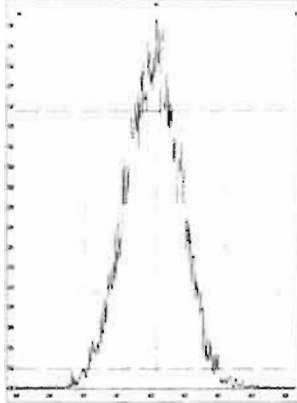
M 392.9760 R 11415



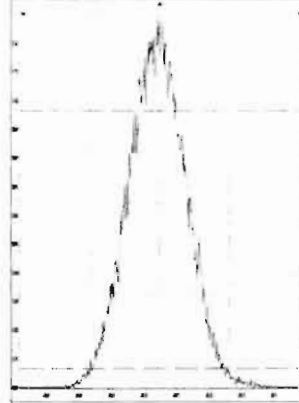
M 404.9760 R 10867



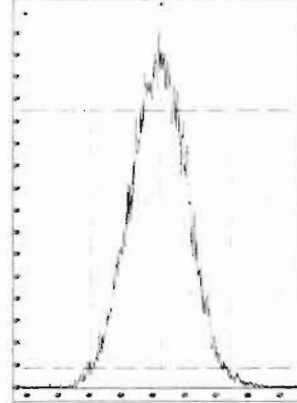
M 416.9760 R 11210



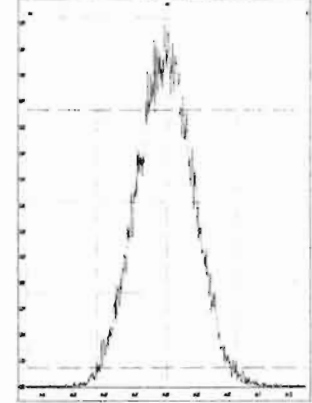
M 430.9728 R 10637



M 442.9728 R 10917



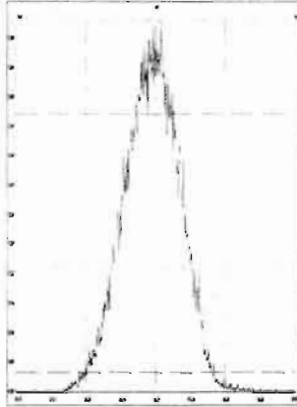
M 454.9728 R 10683



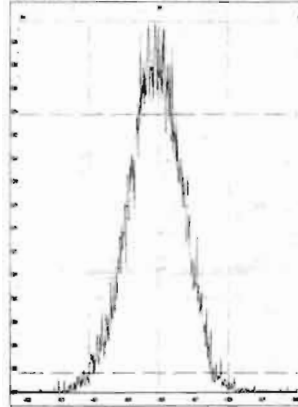
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, April 29, 2020 13:23:14 Pacific Daylight Time

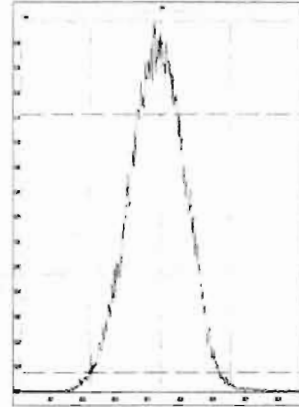
M 404.9760 R 11060



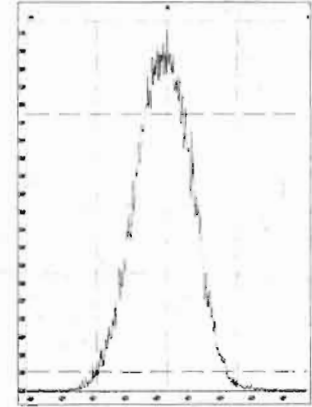
M 416.9760 R 11313



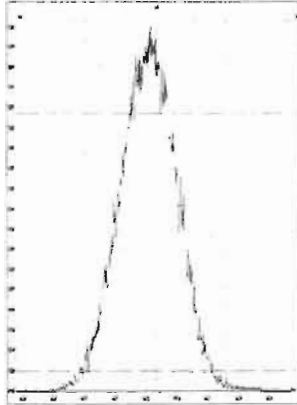
M 430.9728 R 11012



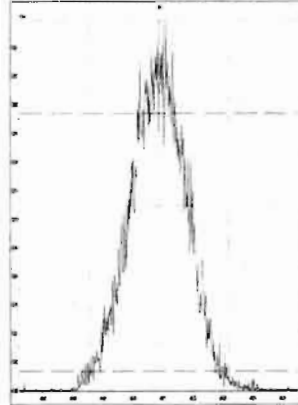
M 442.9728 R 10867



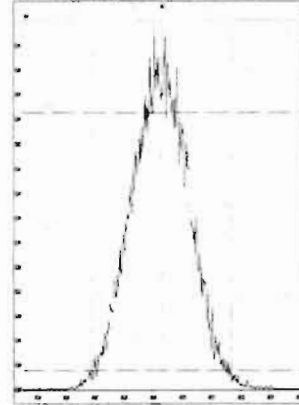
M 454.9728 R 10729



M 466.9728 R 11846



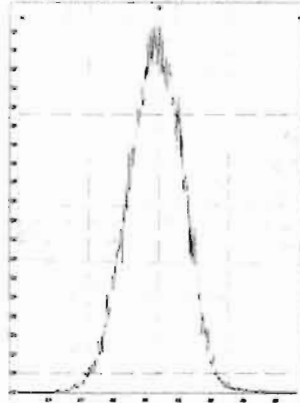
M 480.9696 R 10776



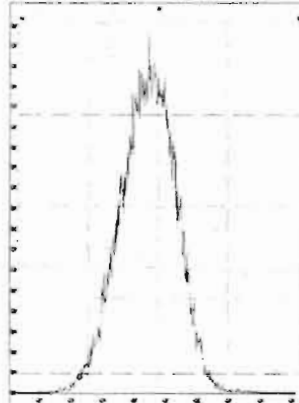
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, April 29, 2020 13:23:43 Pacific Daylight Time

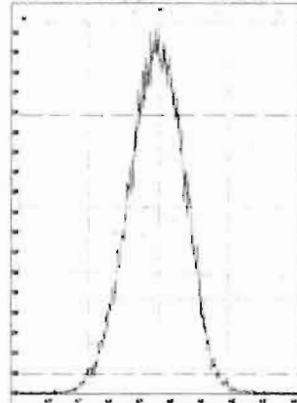
M 430.9728 R 11108



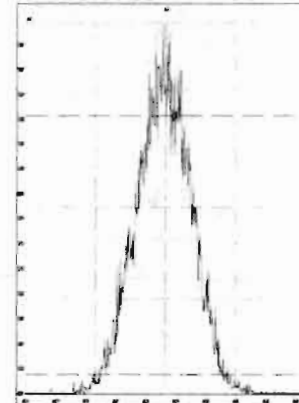
M 442.9728 R 11520



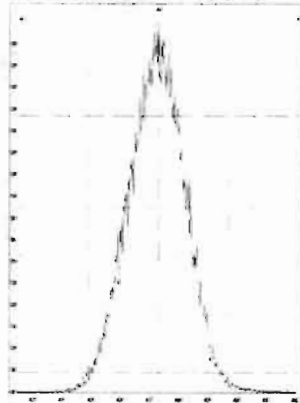
M 454.9728 R 11522



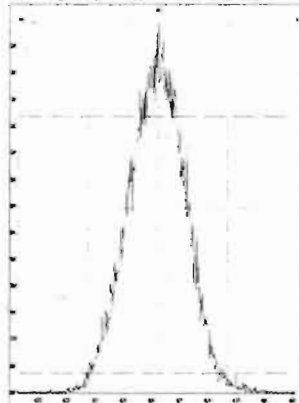
M 466.9728 R 11364



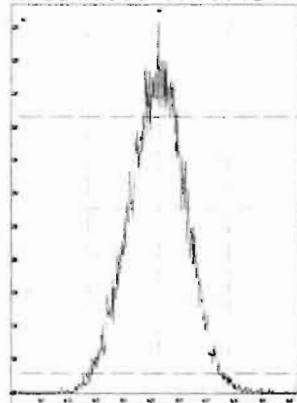
M 480.9696 R 10916



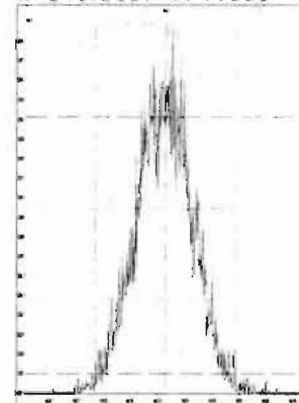
M 492.9696 R 10918



M 504.9696 R 11110



M 516.9697 R 11365



Dataset: Untitled

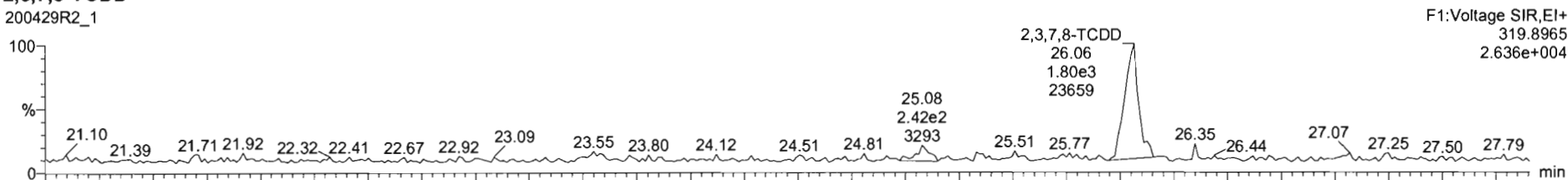
Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

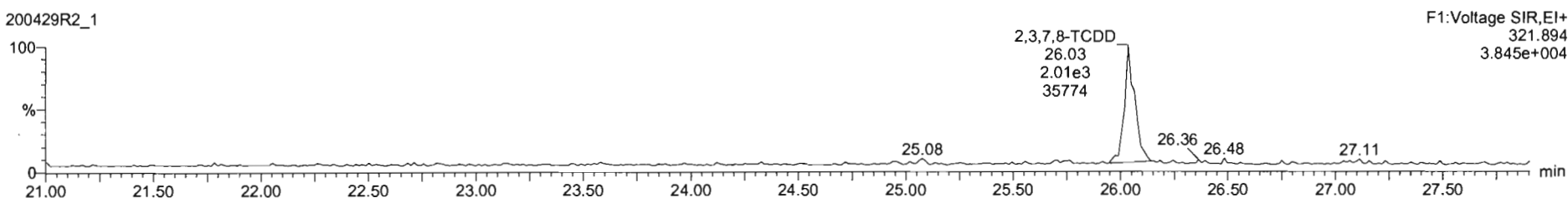
Name: 200429R2_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDD

200429R2_1

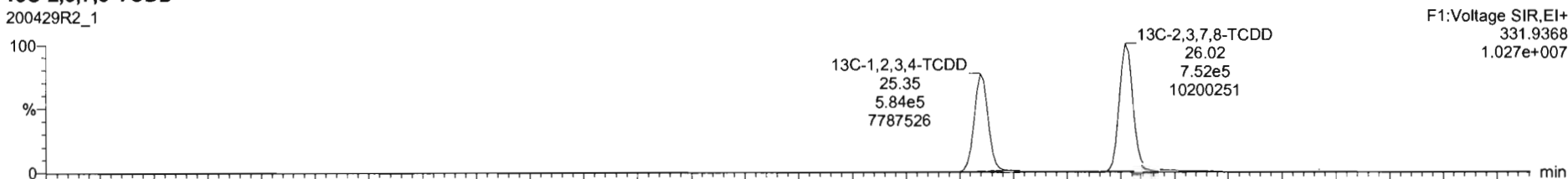


200429R2_1

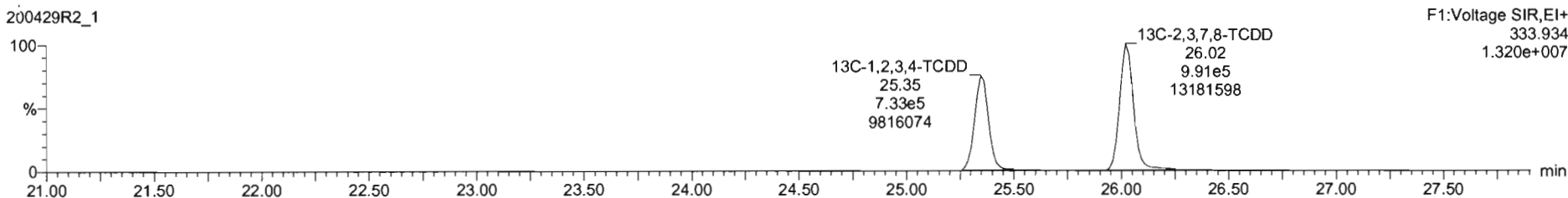


13C-2,3,7,8-TCDD

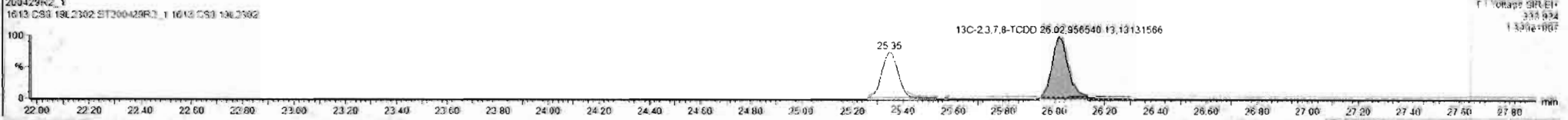
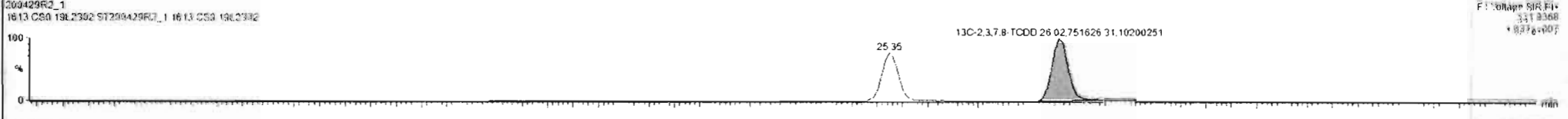
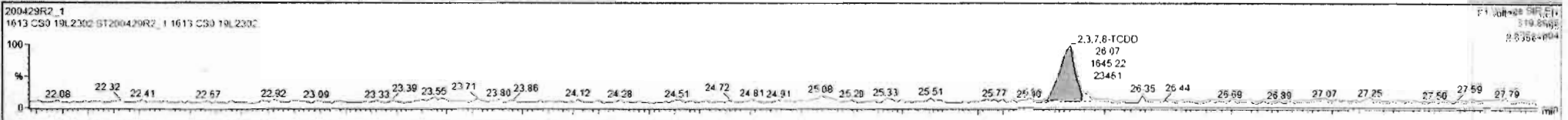
200429R2_1



200429R2_1



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.2	6.35	0.947	0.0587
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	-9.6	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.60	1.181	NO	1.1900e4	1.1804e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	28.38	1.084	NO	7.9301e3	8.1666e5	1.250	-13.5	6.93	0.896	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.6	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.5190e6	0.250	-3.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.3	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0204e4	1.8427e6	1.250	-8.8	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.54	1.134	NO	1.1393e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0568
12	1,2,3,6,7,8-HxCDF	33.76	1.234	NO	1.2594e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2282e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0706
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2366e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	28.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



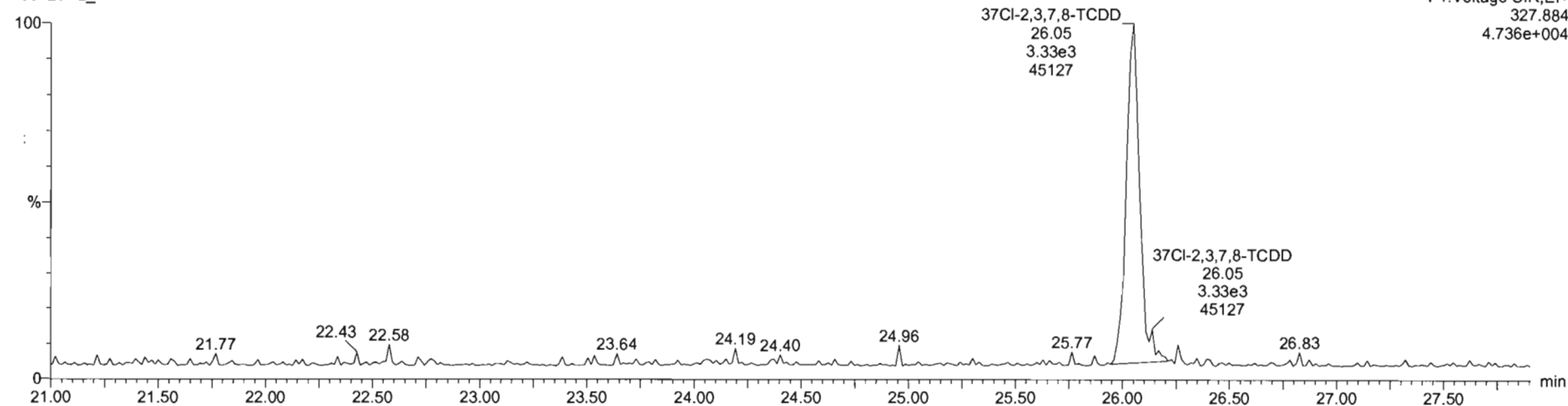
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Name: 200429R2_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200429R2_1

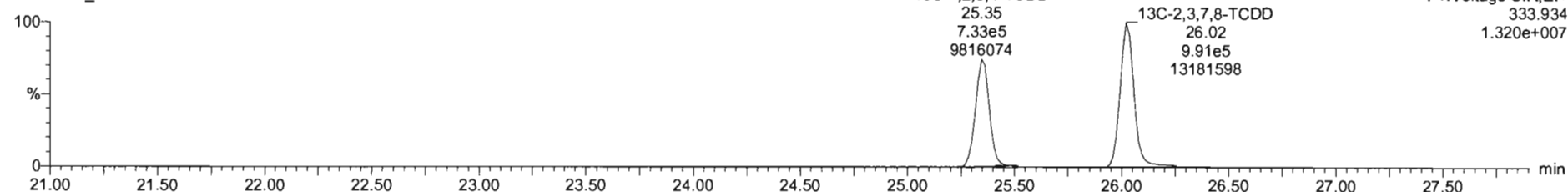


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200429R2_1



200429R2_1



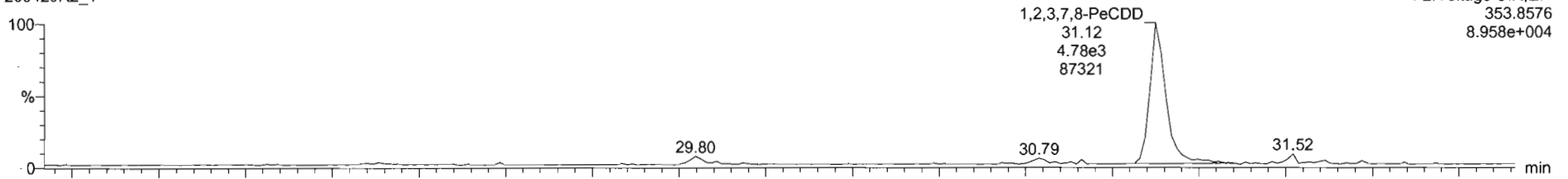
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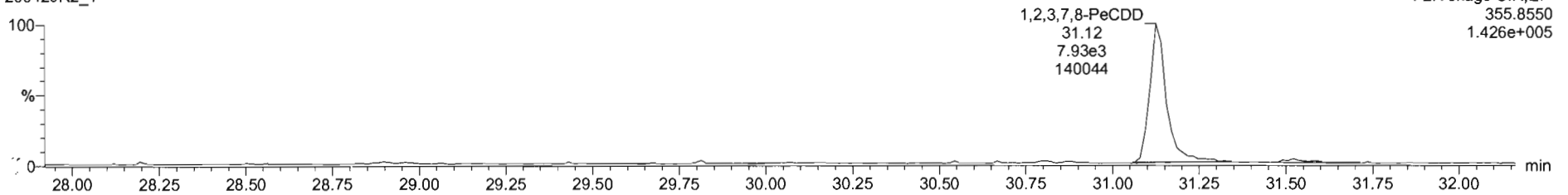
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1,2,3,7,8-PeCDD

200429R2_1

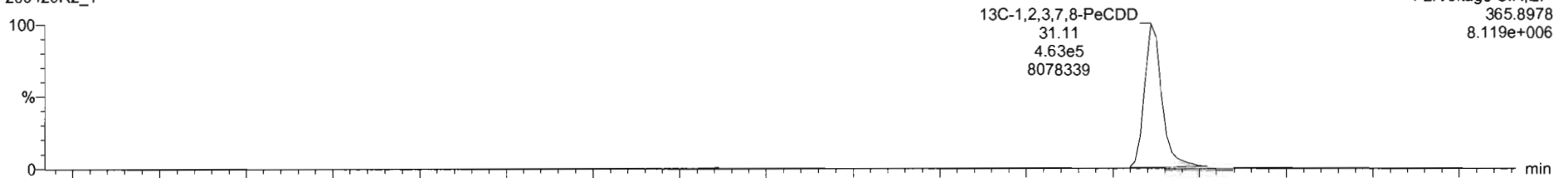


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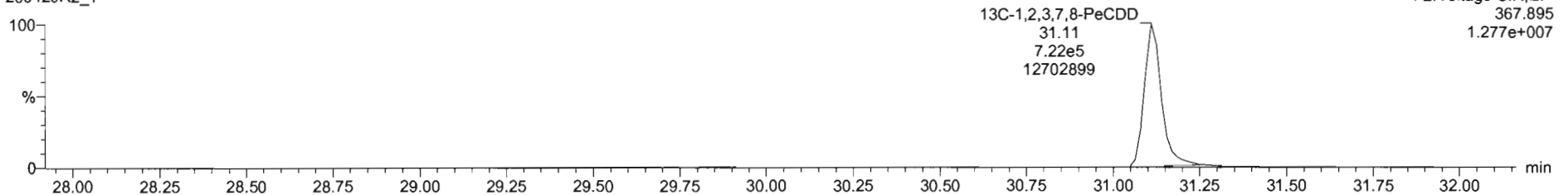


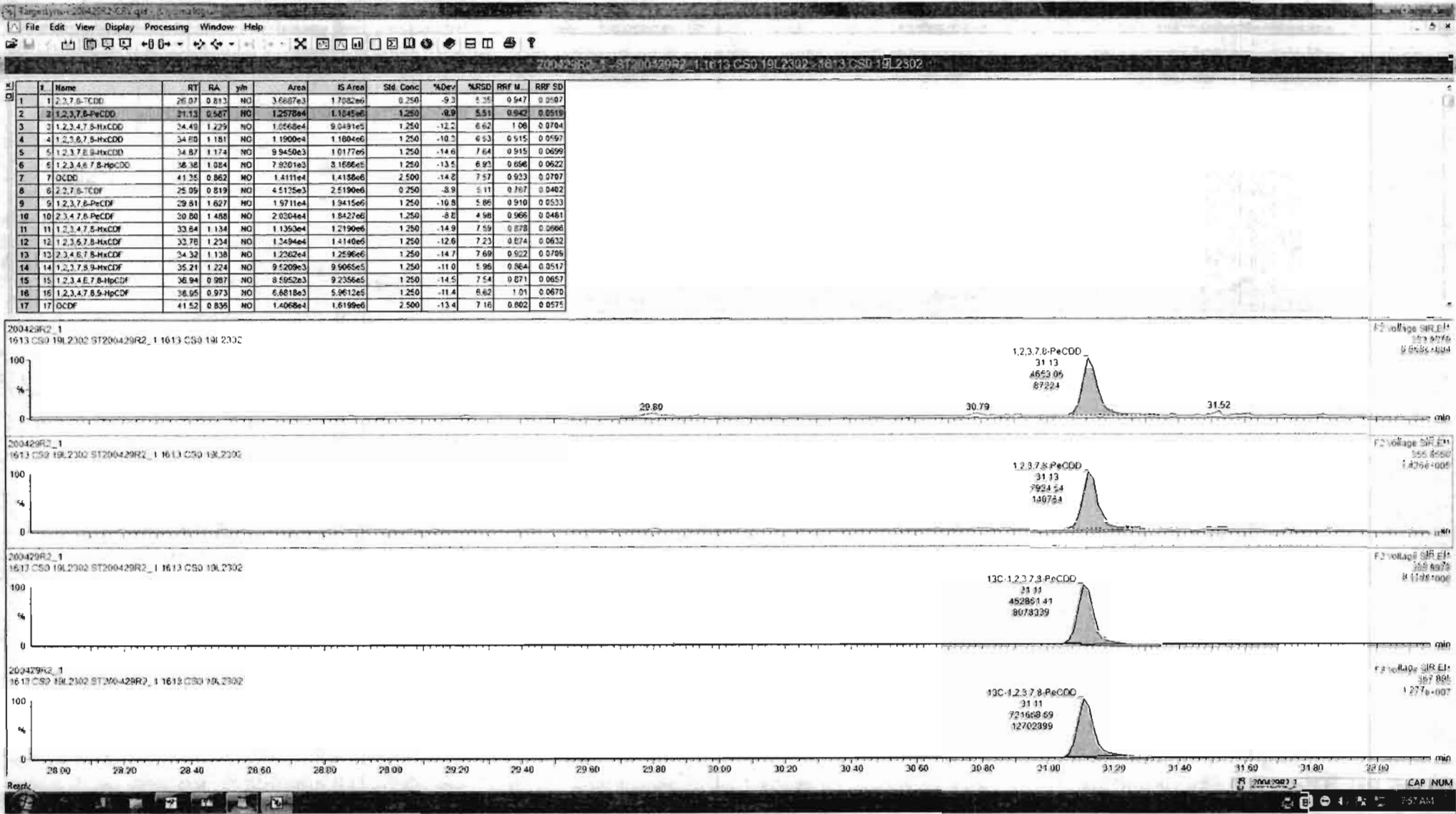
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200429R2_1





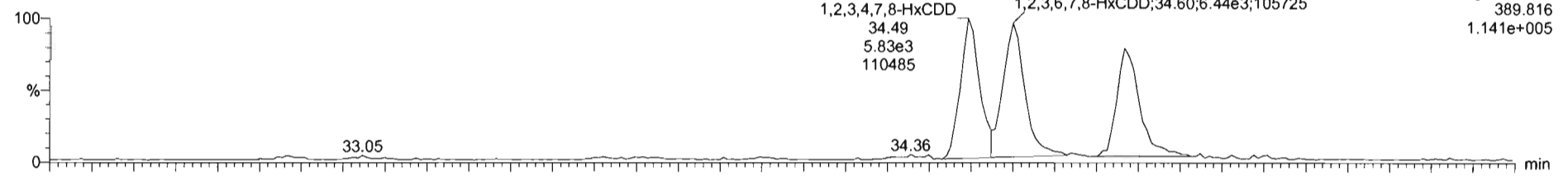
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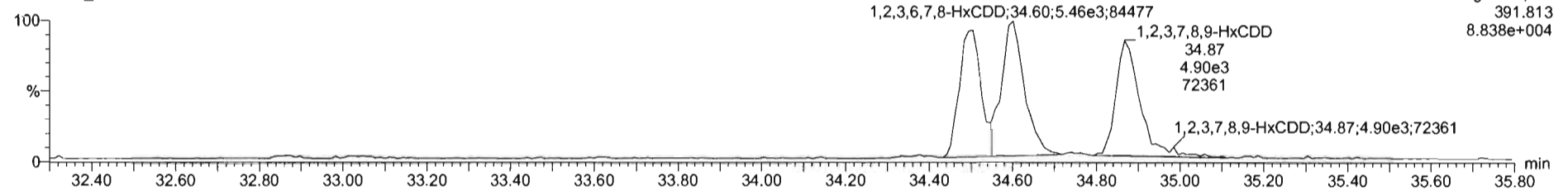
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1,2,3,4,7,8-HxCDD

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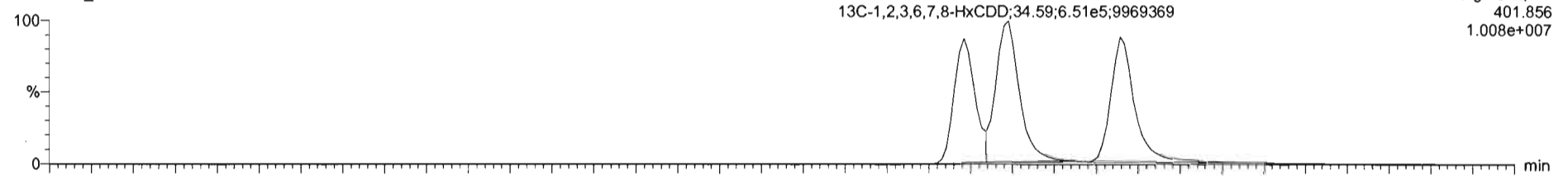


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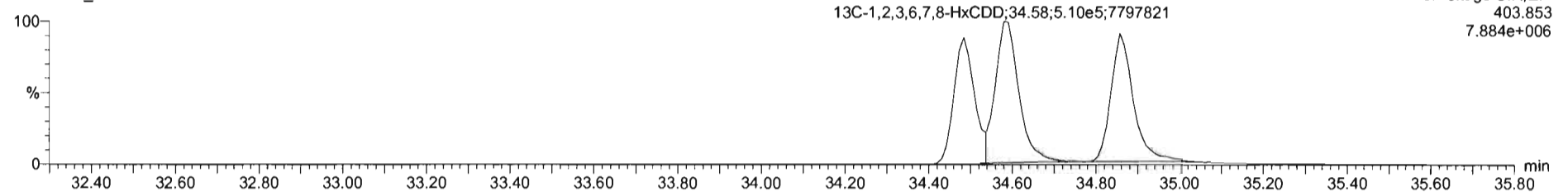


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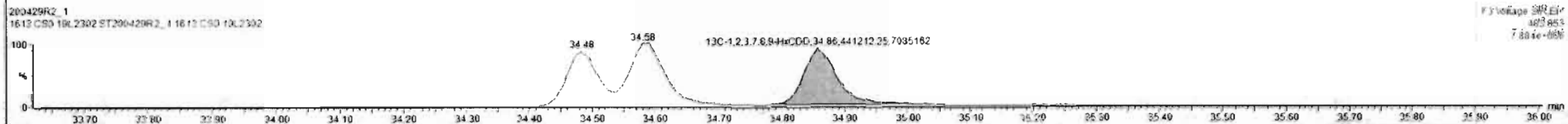
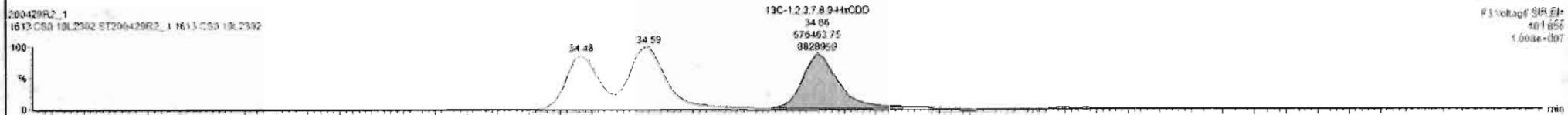
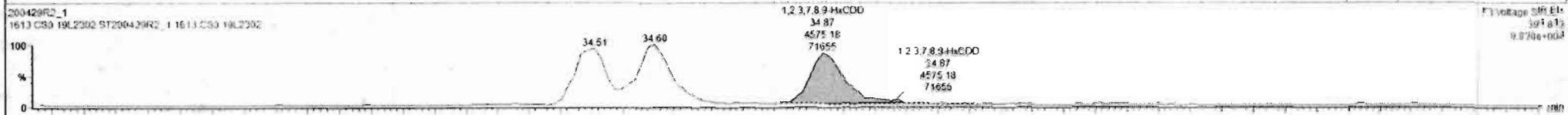
200429R2_1



200429R2_1



#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.913	NO	3.6687e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.67	1.174	NO	9.9450e3	1.0177e6	1.250	-14.4	7.64	0.915	0.0599
6	1,2,3,4,6,7,8-HpCDD	36.38	1.054	NO	7.9201e3	8.1666e5	1.250	-13.5	8.93	0.656	0.0522
7	OCDD	41.35	0.862	NO	1.4111e4	1.4186e6	2.500	-14.8	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.95	0.919	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0462
9	1,2,3,7,8-PeCDF	29.81	1.027	NO	1.9711e4	1.9415e6	1.250	-10.8	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0304e4	1.8427e6	1.250	-8.8	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.134	NO	1.1393e4	1.2190e6	1.250	-14.3	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0789
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.98	0.864	0.0512
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	DCDF	41.52	0.836	NO	1.4066e4	1.6189e6	2.500	-13.4	7.16	0.802	0.0575



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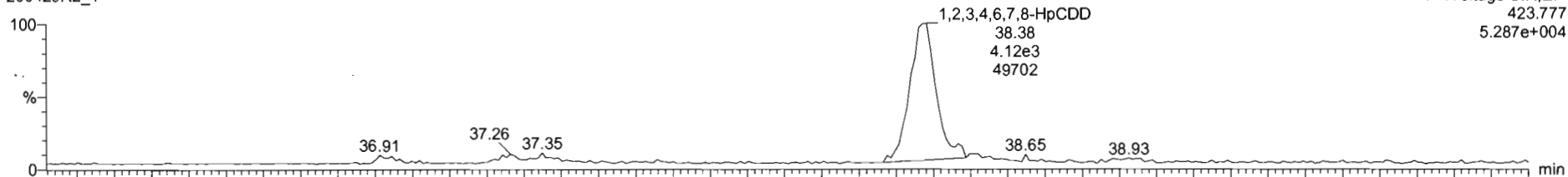
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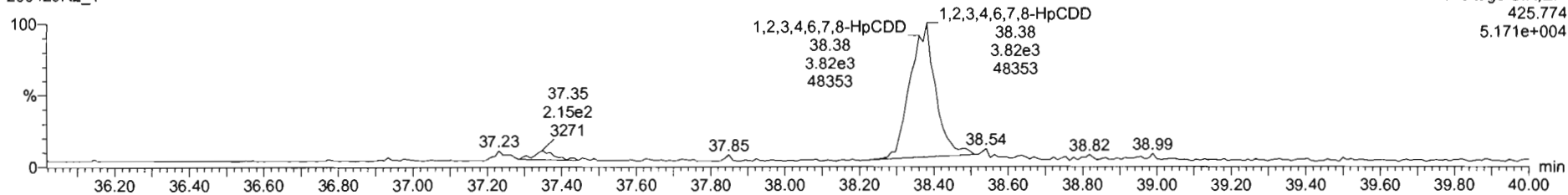
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1,2,3,4,6,7,8-HpCDD

200429R2_1

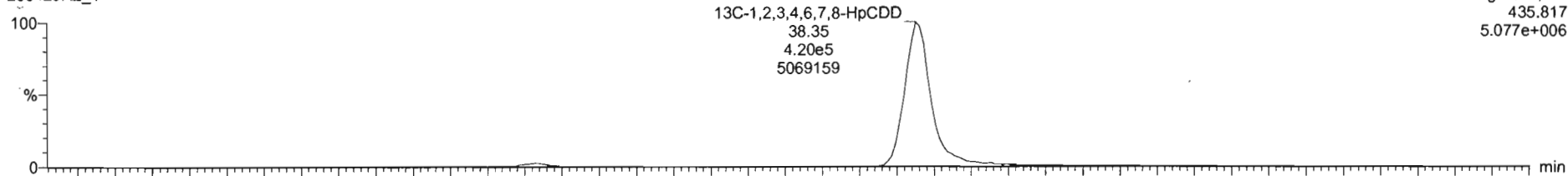


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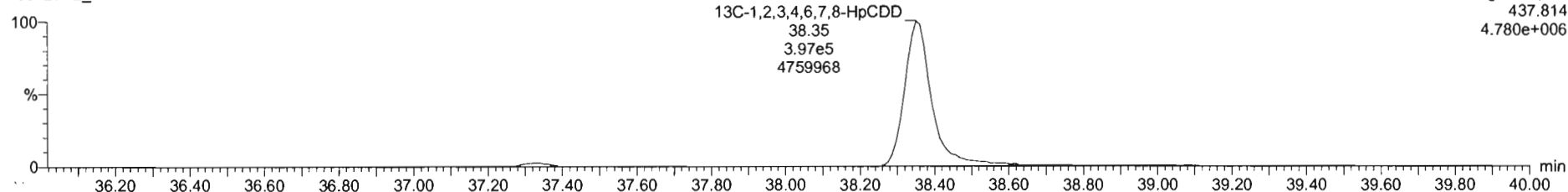


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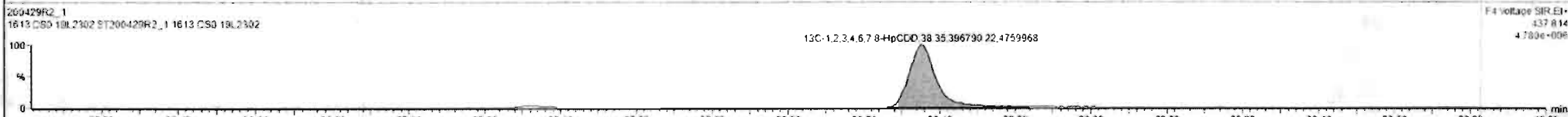
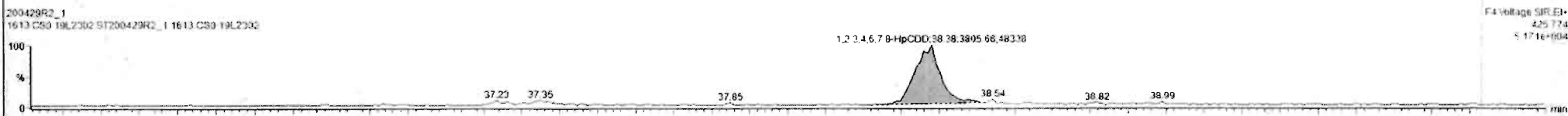
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200429R2_1



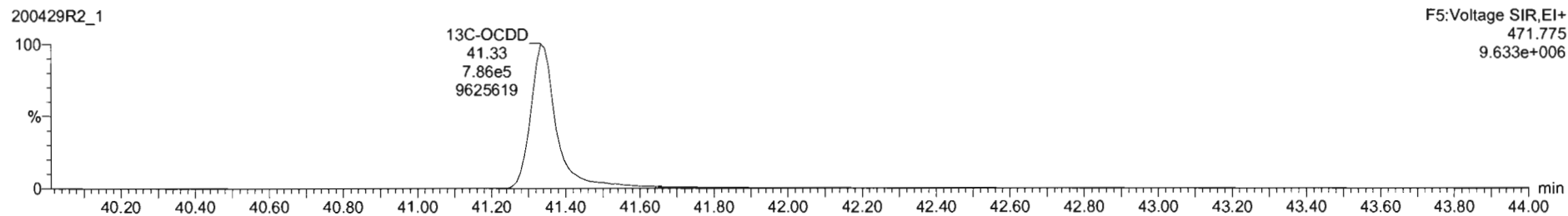
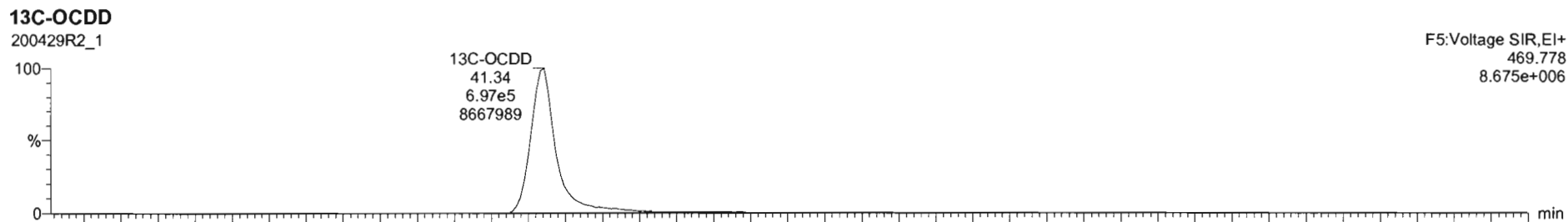
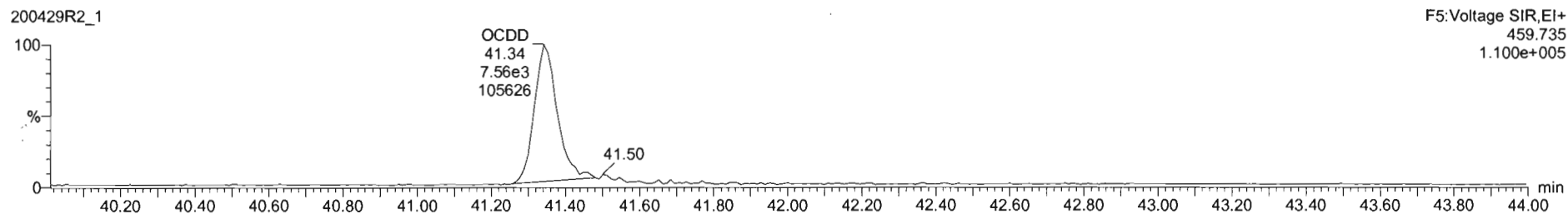
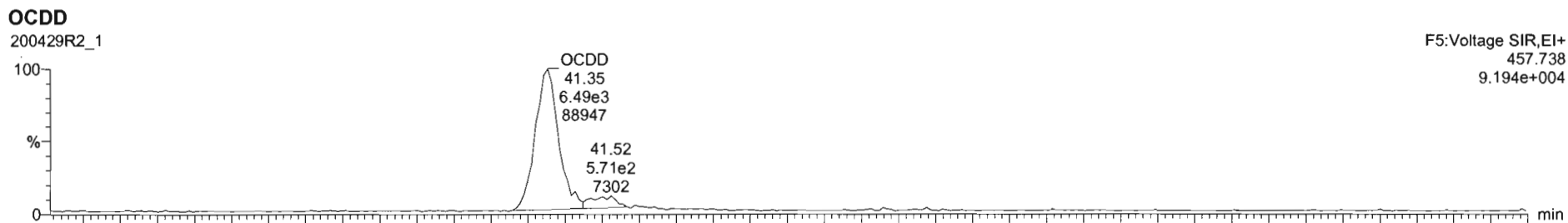
#	Name	RT	RA	y/h	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,6-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	5.25	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.6491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1694e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.554	NO	7.9501e3	2.1666e5	1.250	-13.5	8.93	0.898	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0304e4	1.8427e6	1.250	-8.8	4.98	0.966	0.0481
11	1,2,3,6,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2150e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2362e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0627
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8818e3	5.9812e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



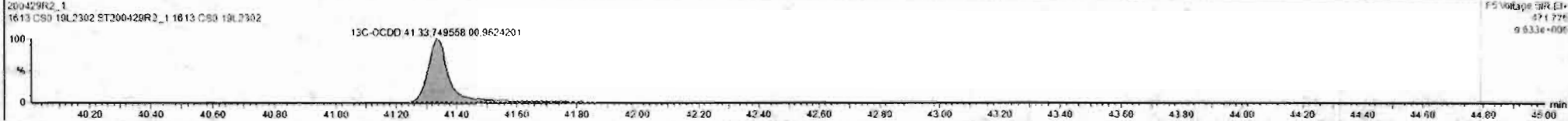
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#	Name	RT	RA	Yn	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.97	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0407
2	1,2,3,7,8-PeCDD	31.12	0.587	NO	1.2678e4	1.1845e6	1.250	-9.6	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.9568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1906e4	1.1604e6	1.250	-10.2	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.38	1.084	NO	7.9201e3	8.1686e5	1.250	-13.5	6.93	0.856	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.3	7.57	0.933	0.0767
8	2,3,7,8-TCDF	26.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.51	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.96	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.80	1.455	NO	2.0204e4	1.9427e6	1.250	-8.8	4.98	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.75	1.234	NO	1.3454e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.927	0.0769
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.967	NO	8.5552e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6218e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.862	0.0575



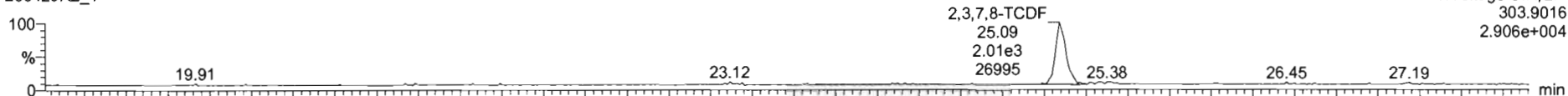
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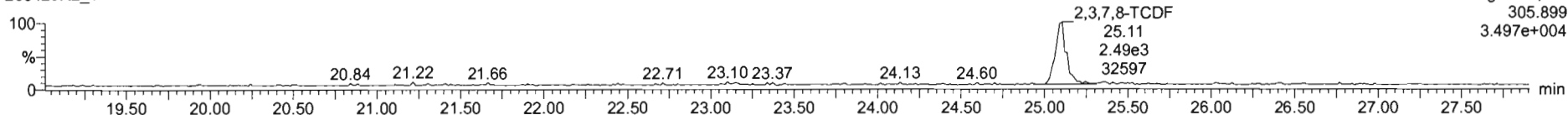
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2,3,7,8-TCDF

200429R2_1

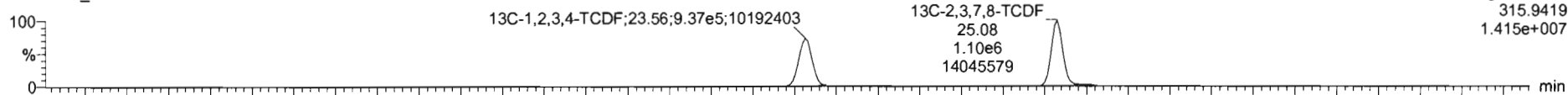


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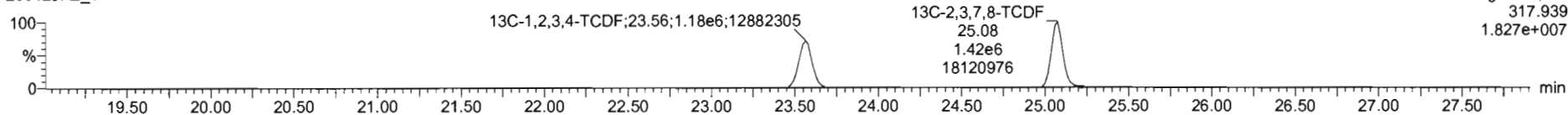


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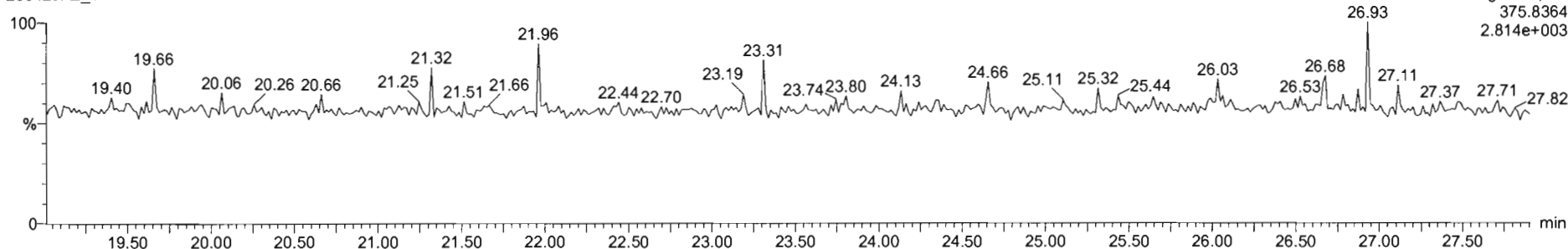


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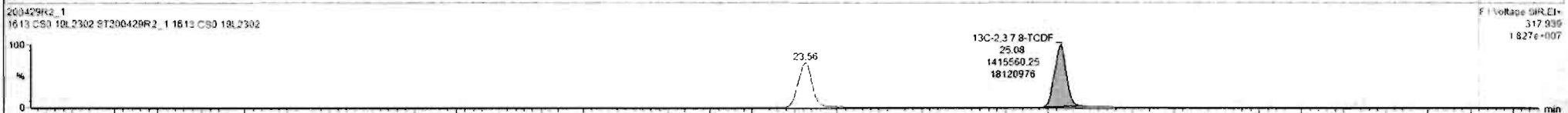
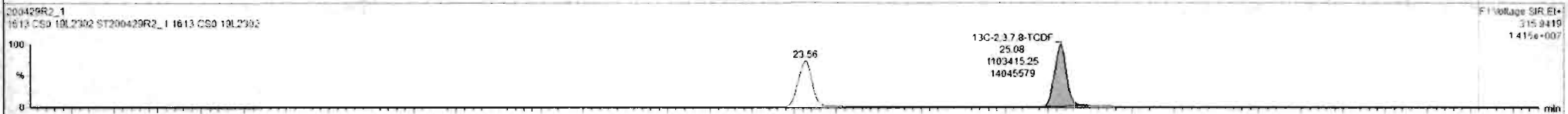
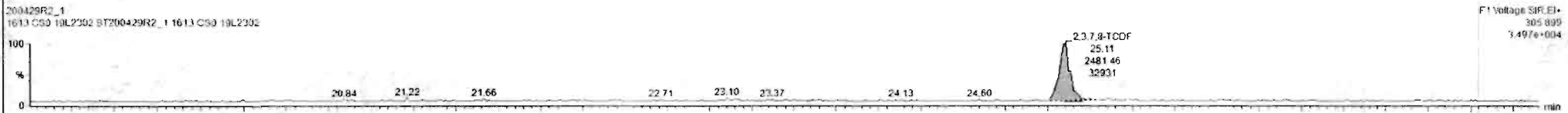
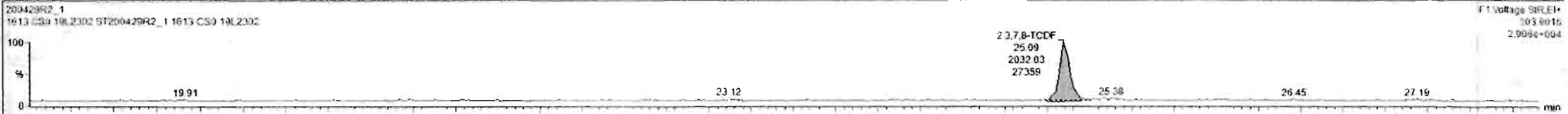


DPE1

200429R2_1



#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDF	26.07	0.813	NO	3.6607e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.13	0.587	NO	1.2578e4	1.1545e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.084	NO	7.001e3	3.1686e5	1.250	-13.5	6.93	0.698	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.0	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5135e3	2.5190e6	0.250	-8.9	5.11	0.787	0.0462
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0204e4	1.8427e6	1.250	-8.0	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2190e6	1.250	-14.3	7.59	0.878	0.0566
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.2494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2362e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	3.5952e3	9.2386e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8018e3	5.9012e5	1.250	-11.4	6.82	1.01	0.0879
17	OCDF	41.52	0.838	NO	1.4068e4	1.6198e6	2.500	-13.4	7.16	0.802	0.0575



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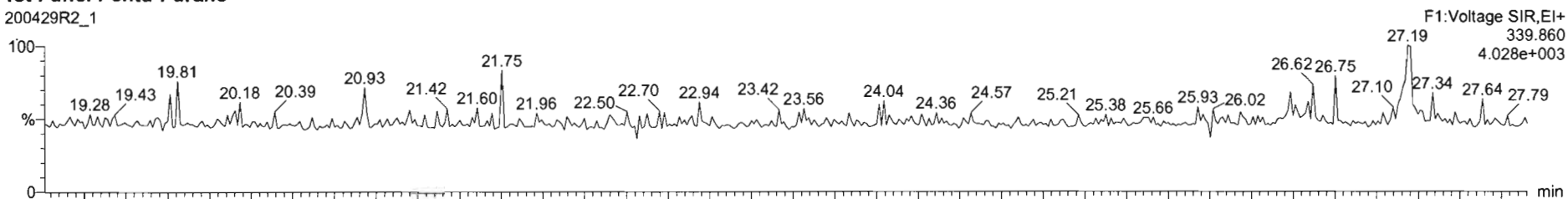
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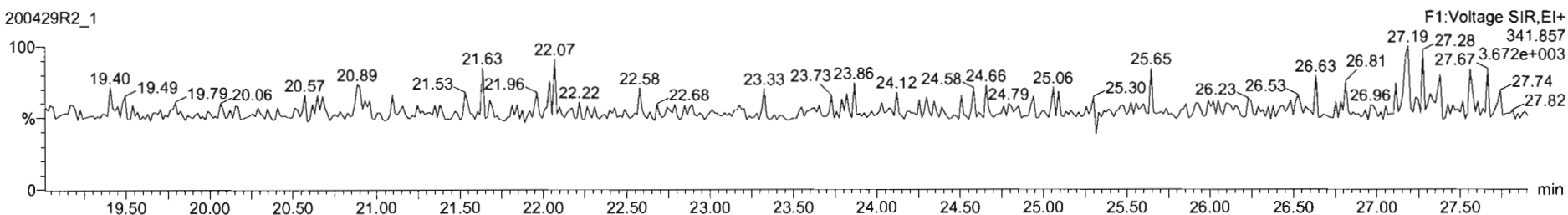
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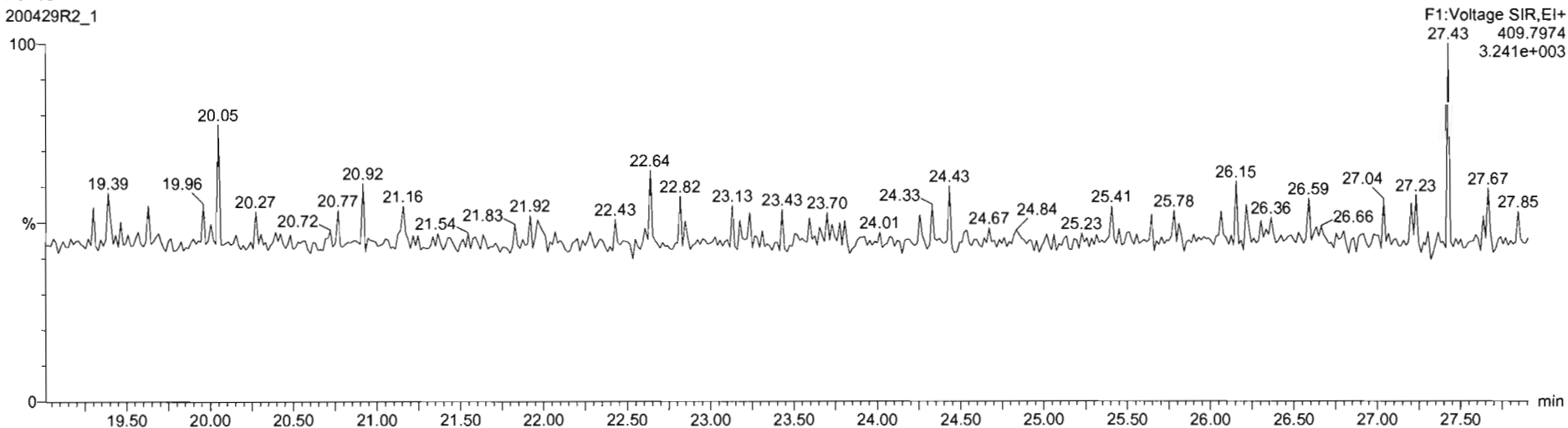


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DPE6

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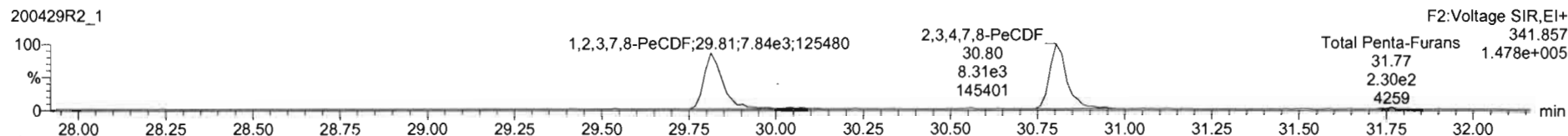
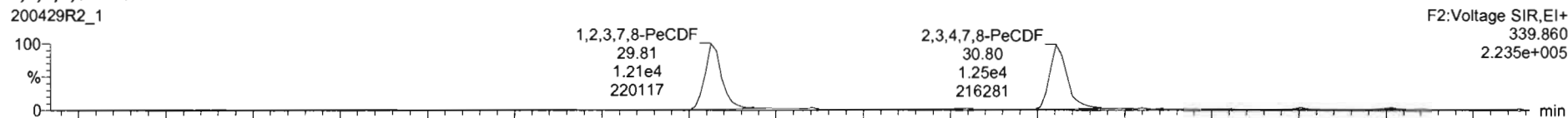


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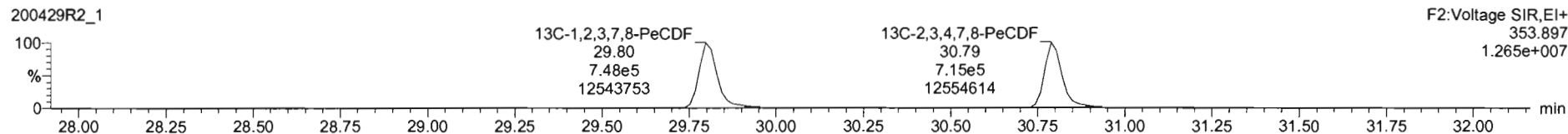
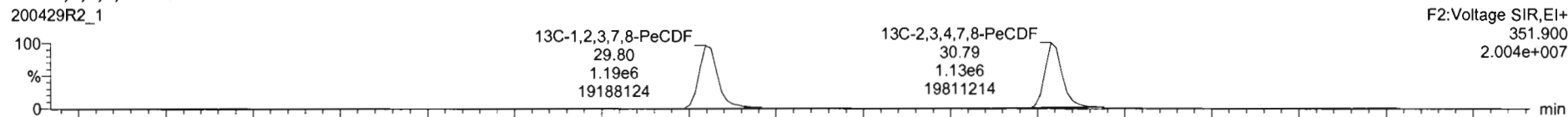
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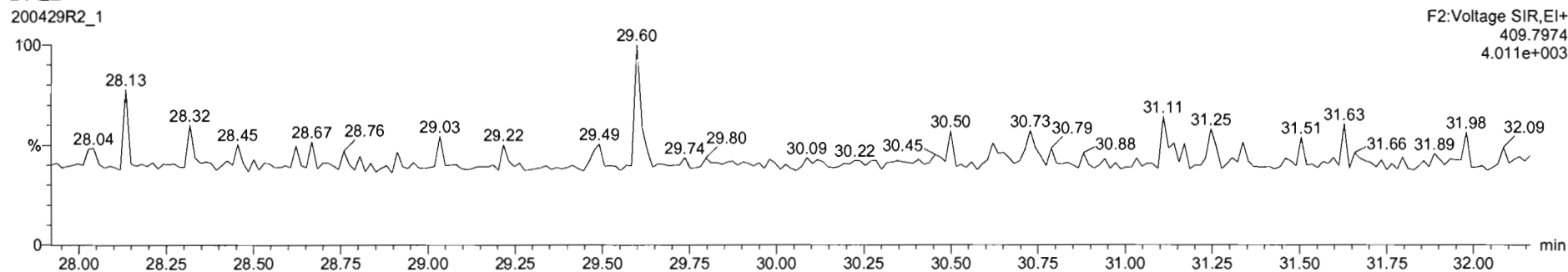
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13C-1,2,3,7,8-PeCDF

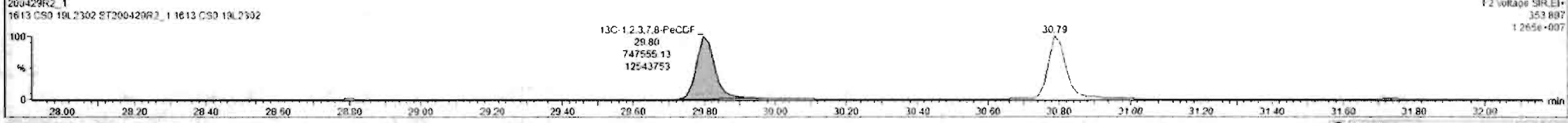
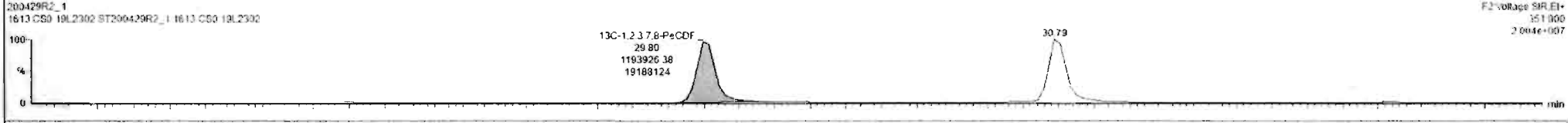
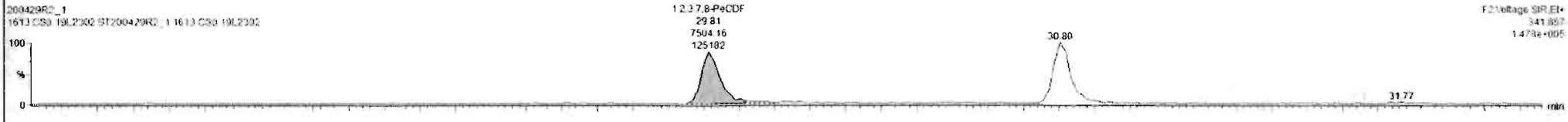
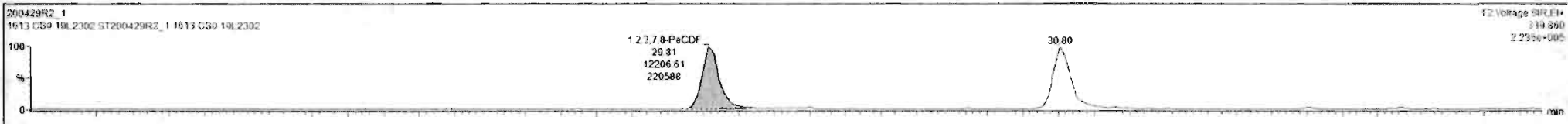


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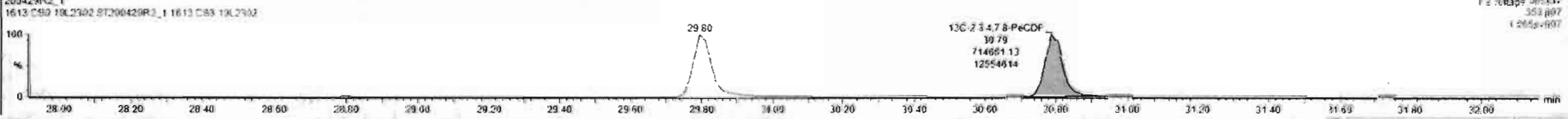
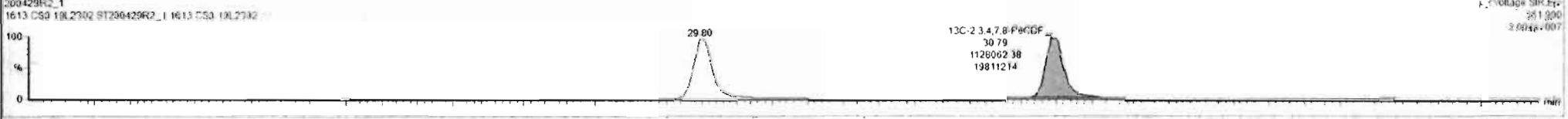
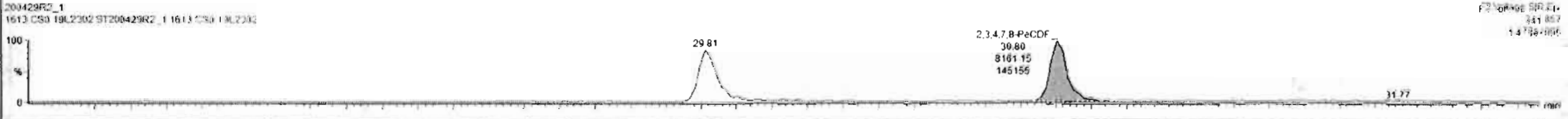
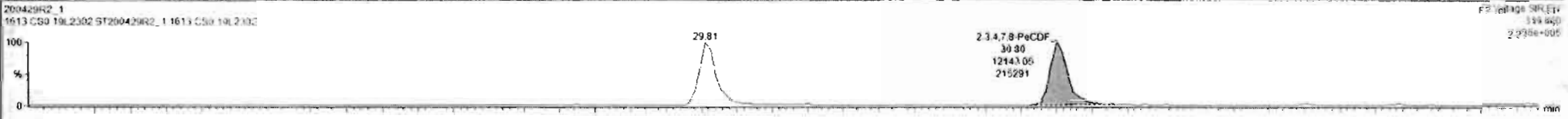
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1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2678e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	24.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1604e6	1.250	-10.2	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.97	1.174	NO	9.9459e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0659
6	1,2,3,4,6,7,8-HpCDD	38.38	1.094	NO	7.8201e3	8.1685e5	1.250	-13.5	6.93	0.858	0.0632
7	OCDD	41.35	0.862	NO	1.4111e4	1.4198e6	2.500	-14.8	7.57	0.933	0.0787
8	2,3,7,8-TCDF	25.05	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.787	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.88	0.918	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0204e4	1.8427e6	1.250	-8.0	4.90	0.956	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.134	NO	1.1350e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.2494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.32	1.138	NO	1.2342e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.4209e3	9.9065e5	1.250	-11.0	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	5.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0679
17	OCDF	41.52	0.836	NO	1.4668e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



200429R2_1 - ST200429R2_1 1613 CS0 19L2302 - 1613 CS0 19L2302

#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.191	NO	1.1909e4	1.1804e6	1.250	-10.3	6.53	0.915	0.0567
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	38.38	1.084	NO	7.9201e3	8.1686e5	1.250	-13.5	6.93	0.856	0.0632
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.933	0.0767
8	2,3,7,8-TCDF	25.09	0.519	NO	4.5135e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.30	1.488	NO	2.0304e4	1.8427e6	1.250	-3.0	4.88	0.968	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.134	NO	1.1363e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0668
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2362e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.94	0.987	NO	8.5652e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



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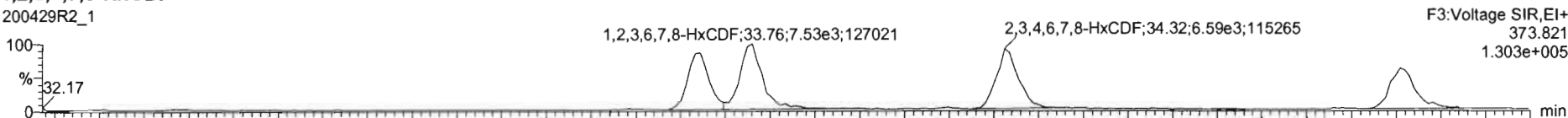
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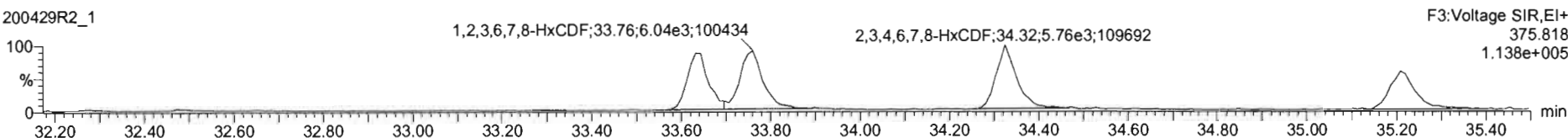
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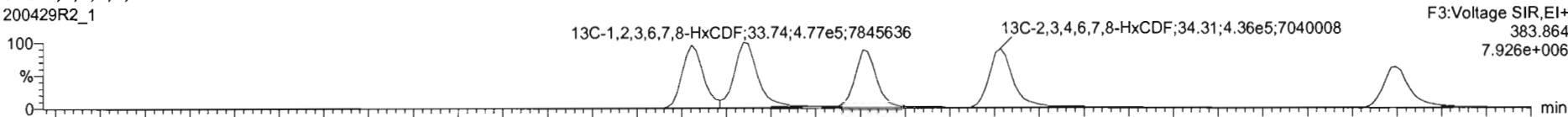


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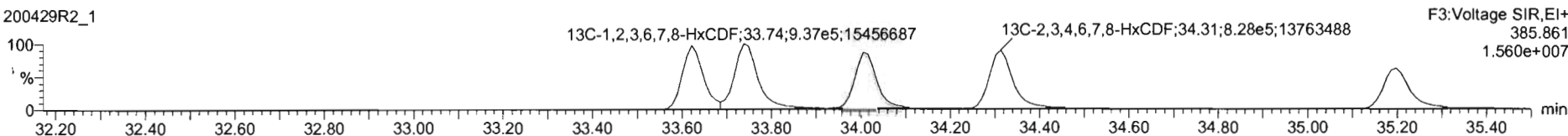


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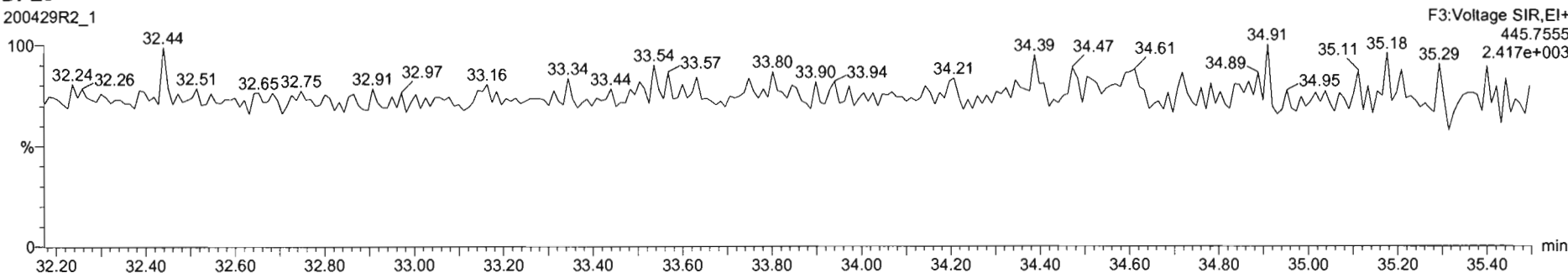


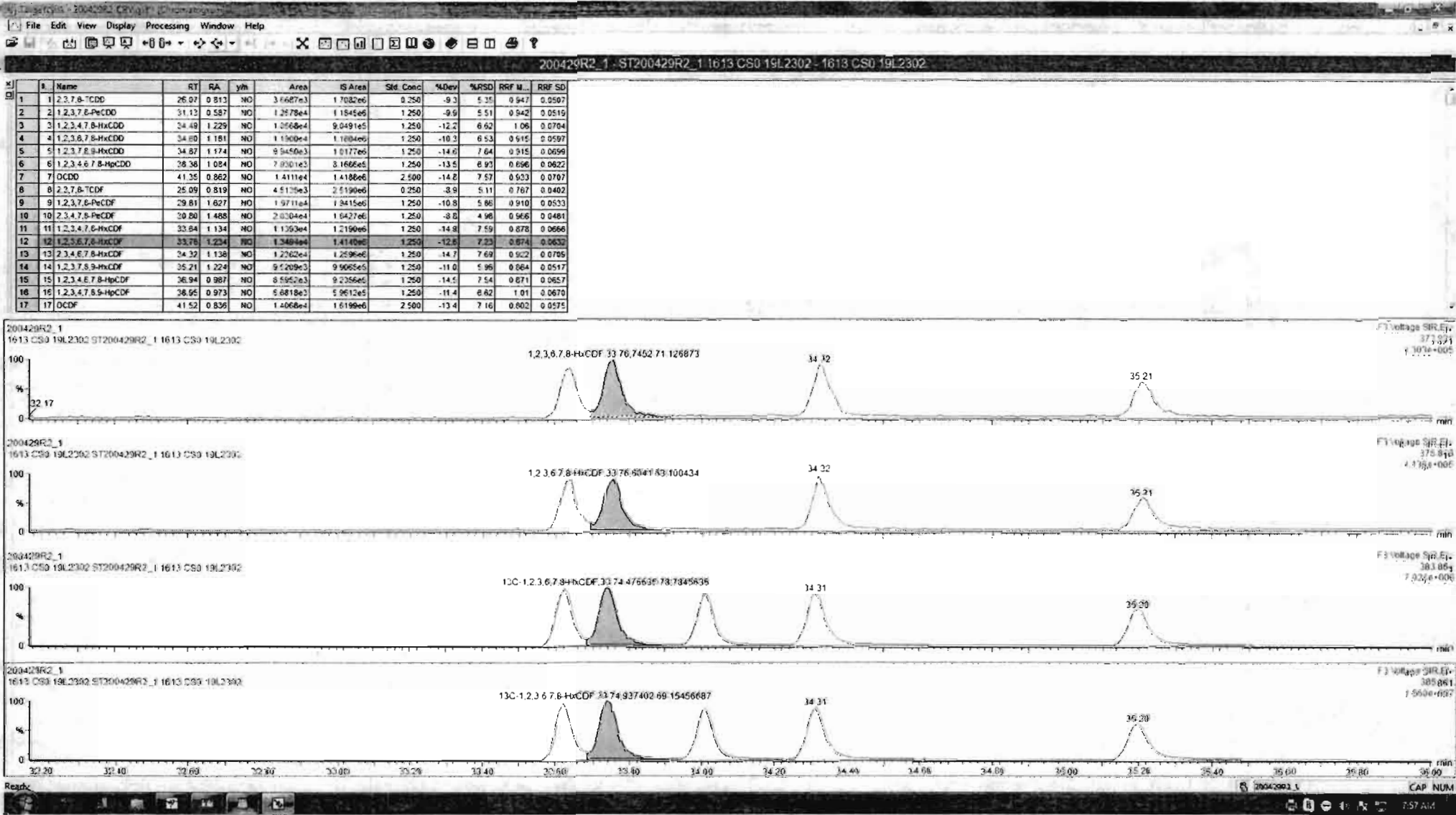
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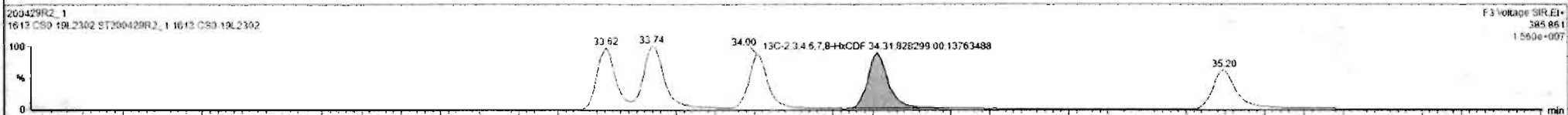
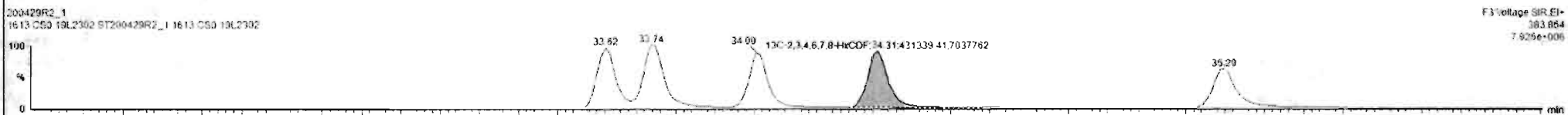
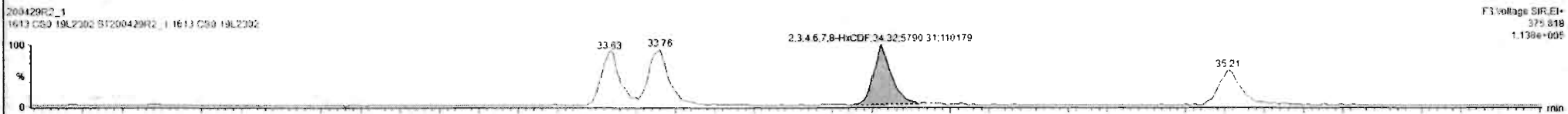
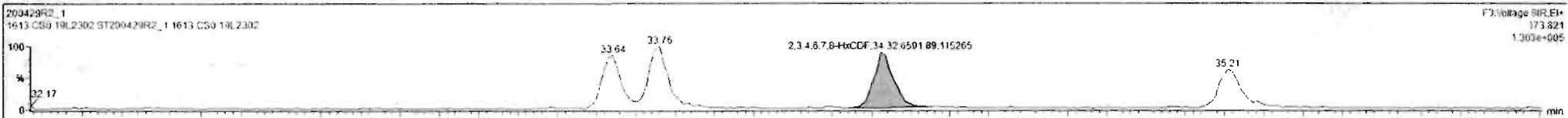
DPE3

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Sl	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	28.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2478e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0515
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.57	1.174	NO	9.5450e3	1.0177e6	1.250	-14.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.084	NO	7.3001e3	8.1686e5	1.250	-13.5	6.93	0.656	0.0632
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.933	0.0787
8	2,2,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.88	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0204e4	1.9427e6	1.250	-8.2	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.134	NO	1.1363e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	32.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.130	NO	1.2232e4	1.2590e6	1.250	-14.7	7.68	0.922	0.0766
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.964	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2386e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	DCDF	41.52	0.836	NO	1.4068e4	1.6189e6	2.500	-13.4	7.16	0.802	0.0575



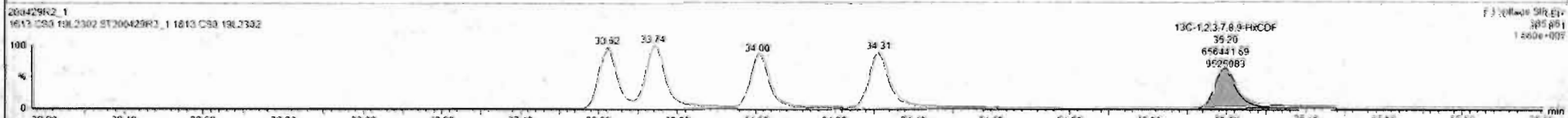
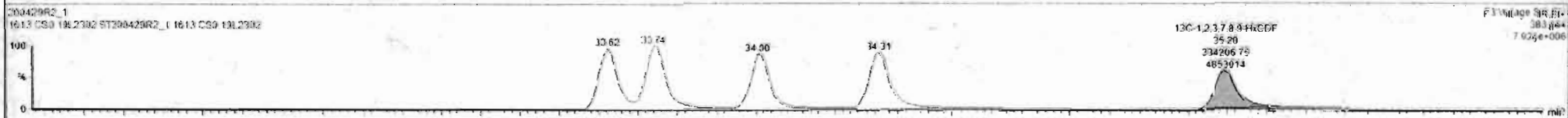
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#	Name	RT	RA	ym	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	6.30	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2178e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.181	NO	1.1900e4	1.1689e6	1.250	-10.3	6.53	0.515	0.0597
5	1,2,3,7,8-HxCDF	34.87	1.174	NO	9.5450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	38.38	1.084	NO	7.9016e3	3.1686e5	1.250	-13.5	6.92	0.696	0.0632
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.623	0.0707
8	1,2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.4196e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,6-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0044e4	1.9427e6	1.250	-8.8	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1363e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.37	1.138	NO	1.2062e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.98	0.704	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.94	0.967	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.82	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4066e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



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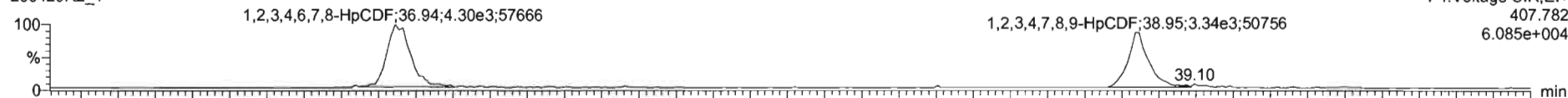
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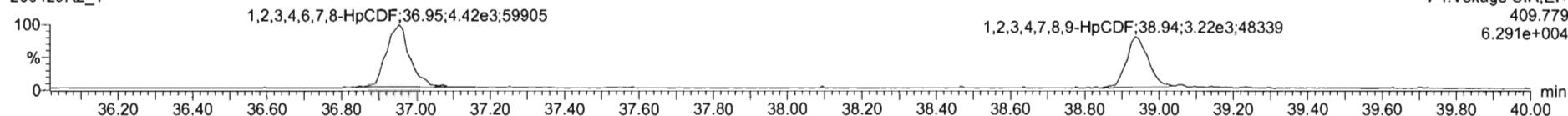
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1,2,3,4,6,7,8-HpCDF

200429R2_1



200429R2_1

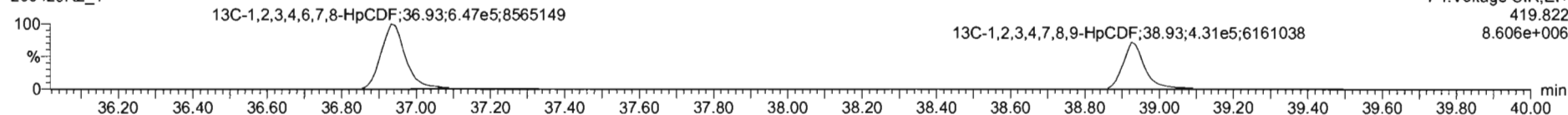


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200429R2_1

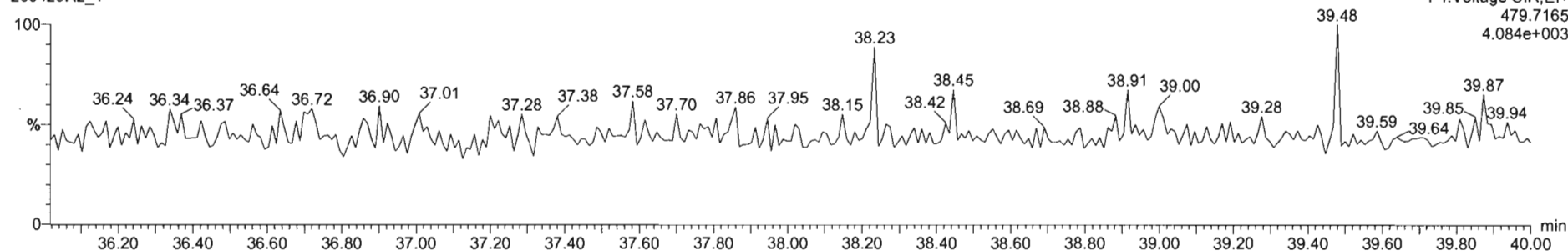


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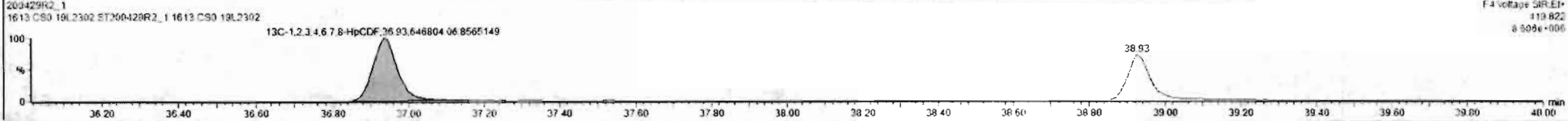
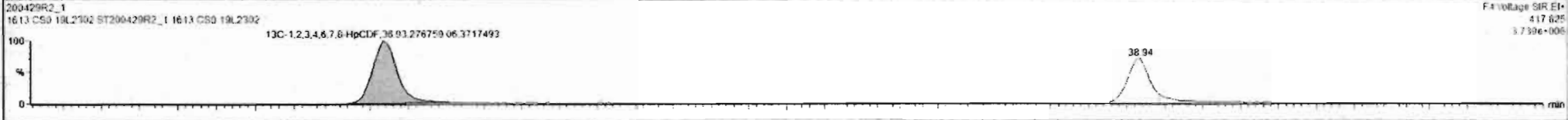
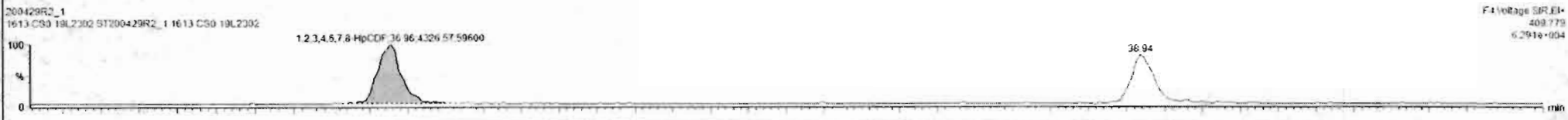
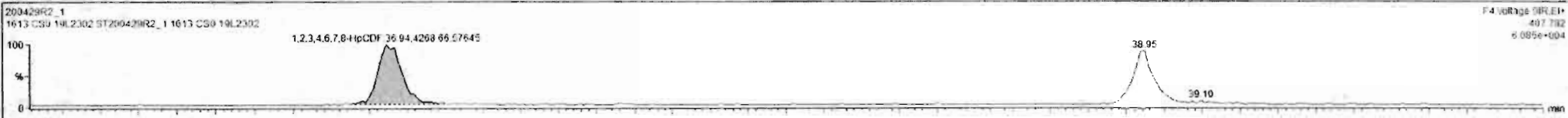


DPE4

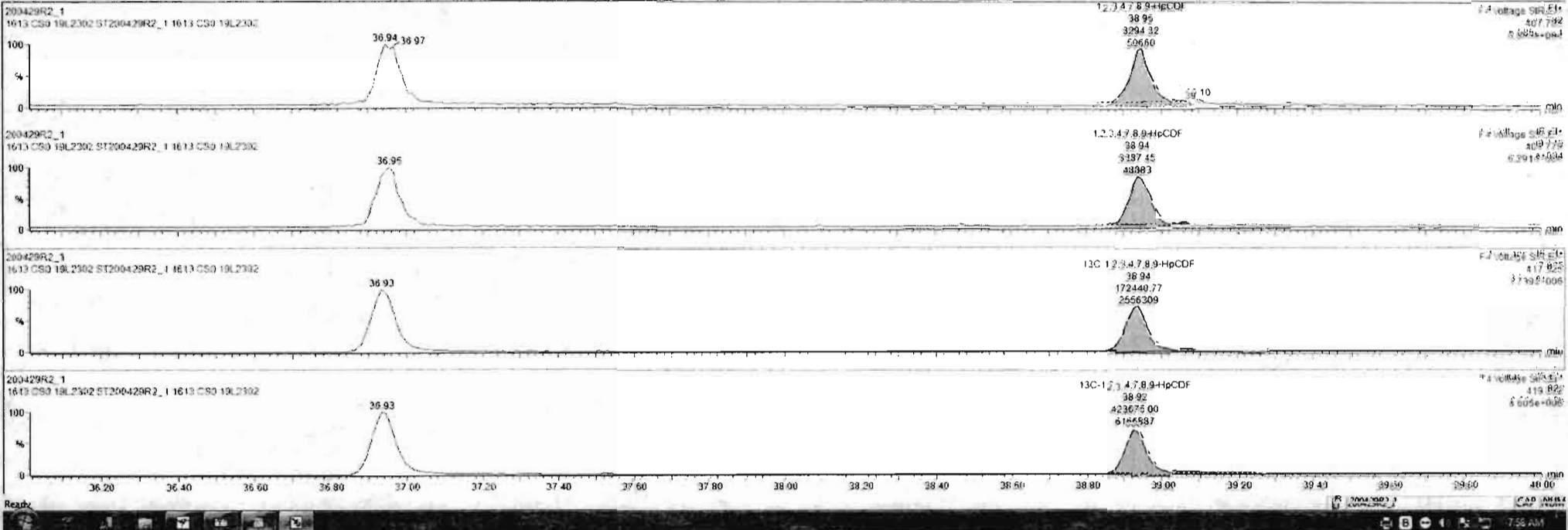
200429R2_1



#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6667e3	1.7087e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2678e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.9491e5	1.250	-12.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0567
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.38	1.084	NO	7.9201e3	8.1696e5	1.250	-13.5	6.93	0.656	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.933	0.0707
8	1,2,3,7,8-TCDF	26.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.51	1.627	NO	1.9711e4	1.9415e6	1.250	-10.3	5.66	0.910	0.0533
10	1,2,3,4,7,8-HxCDF	30.80	1.468	NO	2.9304e4	1.8427e6	1.250	-8.2	4.98	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.84	1.134	NO	1.1363e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.32	1.138	NO	1.2282e4	1.2596e6	1.250	-14.7	7.68	0.922	0.0789
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.984	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5862e3	9.2366e5	1.250	-14.5	7.54	0.871	0.0667
16	1,2,3,4,7,8,9-HpCDF	38.95	0.873	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	9.3	6.35	0.547	0.0567
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	-9.5	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.161	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.515	0.0592
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.054	NO	7.9301e3	8.1686e5	1.250	-13.5	6.93	0.856	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4198e6	2.500	-14.0	7.57	0.923	0.0702
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.458	NO	2.0204e4	1.9427e6	1.250	-8.0	4.98	0.566	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.674	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.6065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.671	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8019e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.826	NO	1.4066e4	1.6199e6	2.500	-13.4	7.10	0.802	0.0575

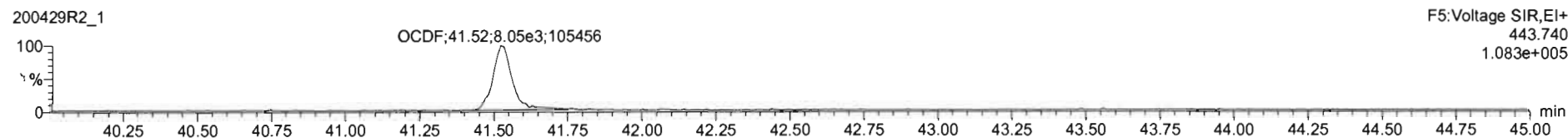


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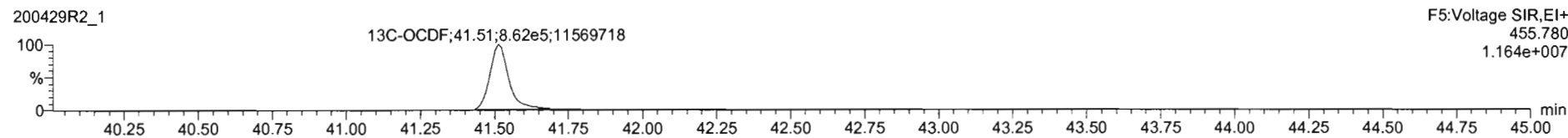
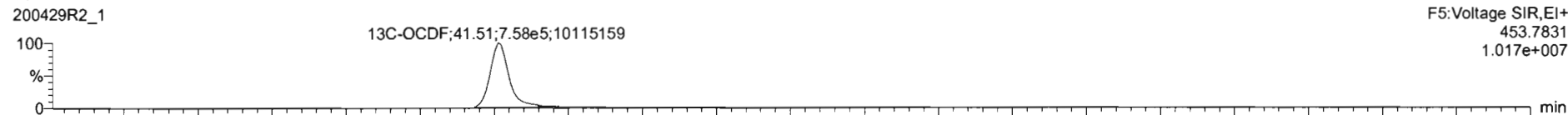
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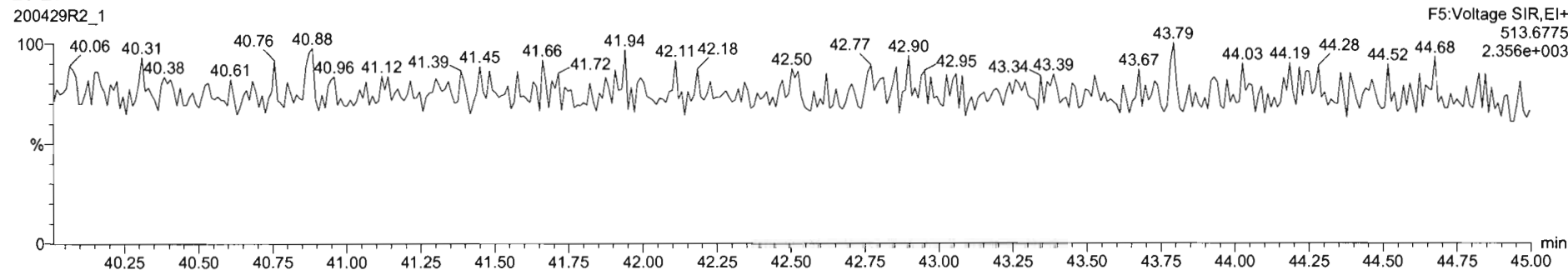
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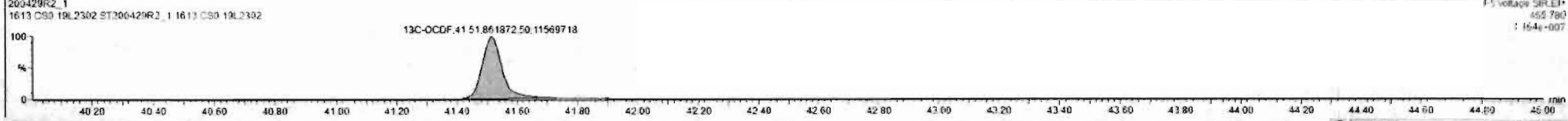
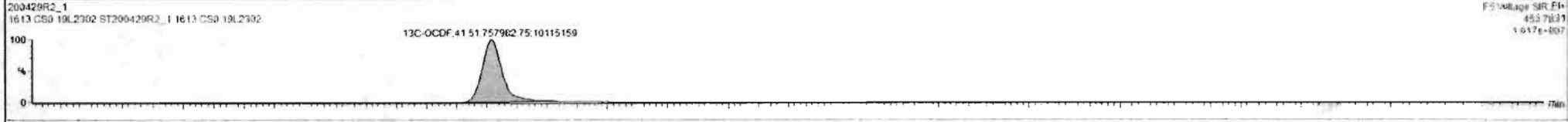
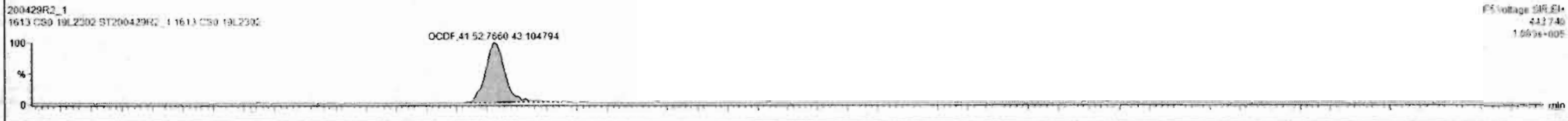
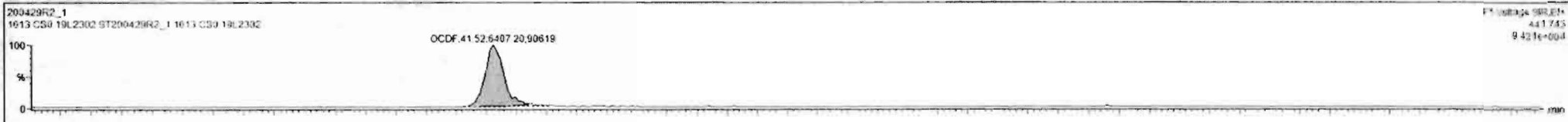
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DPE5



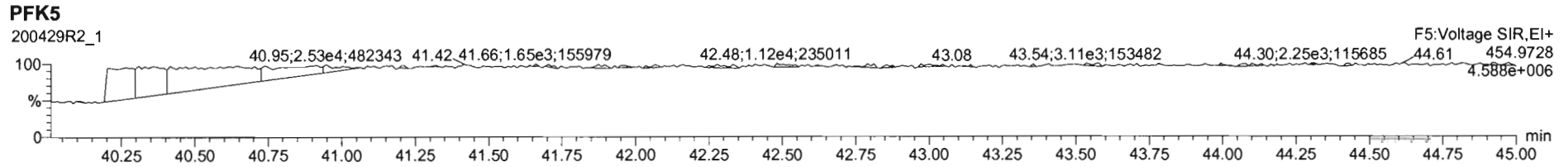
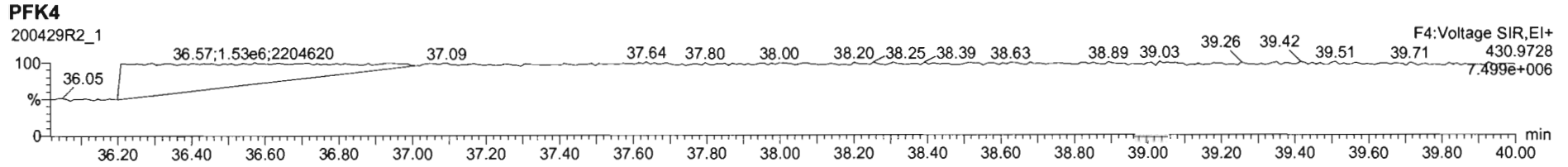
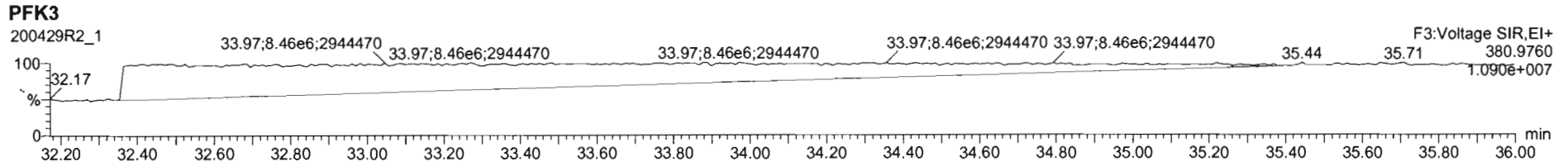
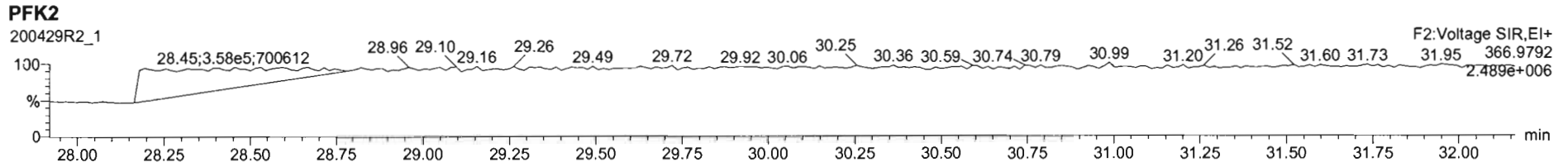
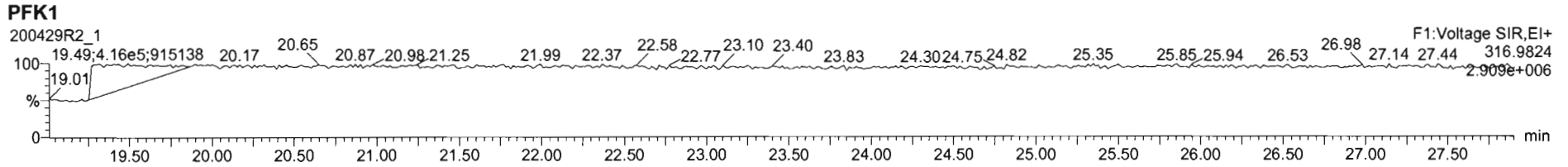
#	Name	RT	RA	Yln	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7032e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	9.9	5.51	0.942	0.0516
3	1,2,3,6,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.40	1.191	NO	1.1900e4	1.1804e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.094	NO	7.9201e3	3.1686e5	1.250	-13.5	6.97	0.856	0.0622
7	OCDD	41.35	0.962	NO	1.4111e4	1.4188e6	2.500	-14.2	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.95	0.919	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.3	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.00	1.488	NO	2.004e4	1.8427e6	1.250	-8.0	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8818e3	5.9612e5	1.250	-11.4	6.67	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4065e4	1.6189e6	2.500	-13.4	7.16	0.802	0.0575



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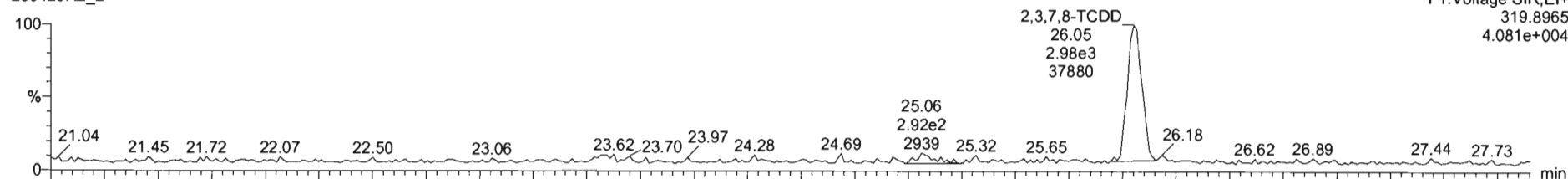
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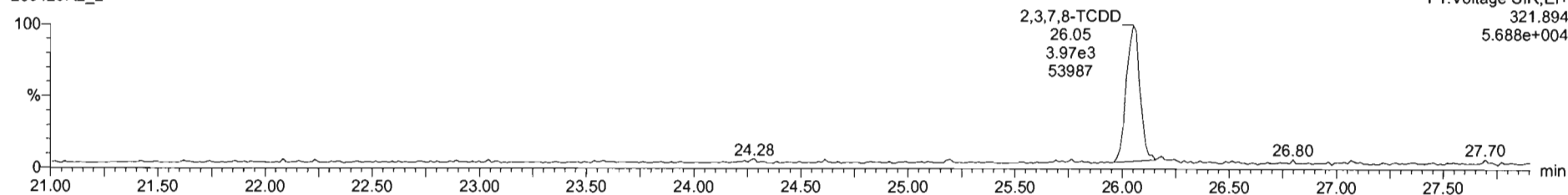
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2,3,7,8-TCDD

200429R2_2

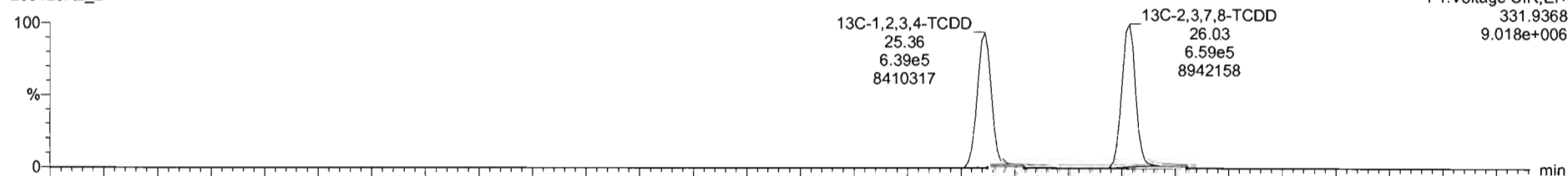


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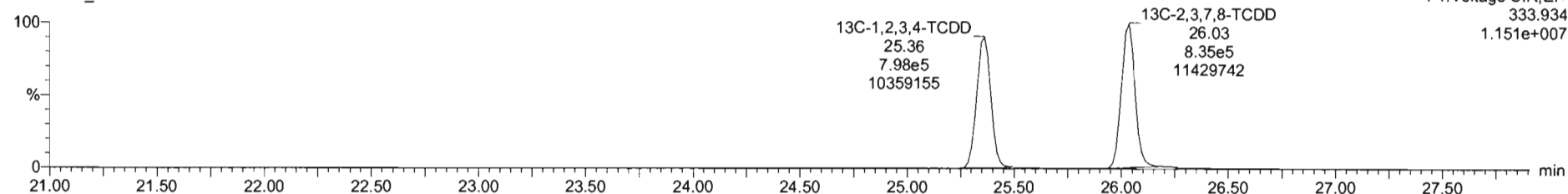


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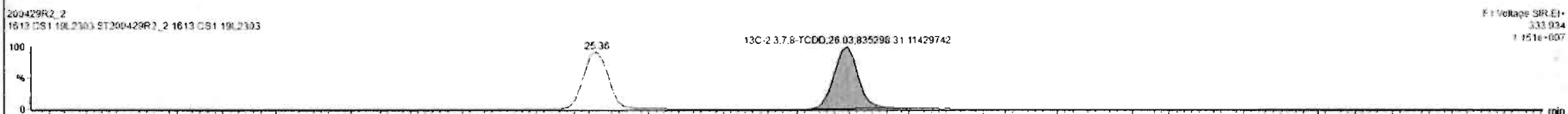
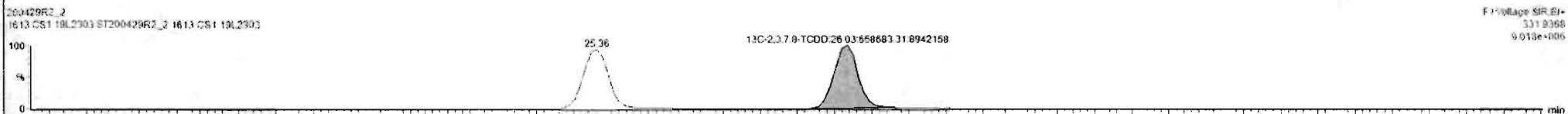
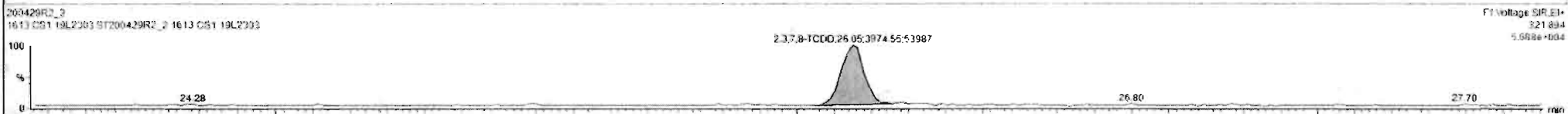
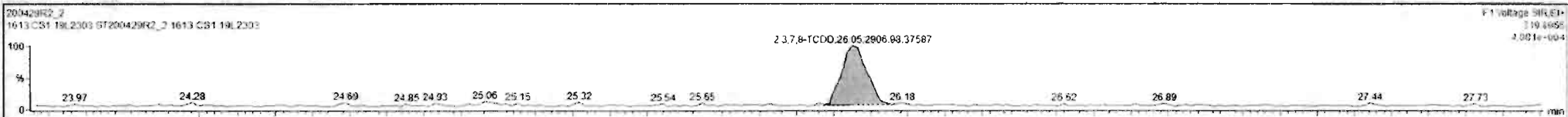
200429R2_2



200429R2_2



#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	1,2,3,7,8-TCDD	26.06	0.731	NO	6.8015e3	1.4946e6	6.500	-2.8	5.35	0.547	0.0567
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0515
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.187	NO	2.1618e4	9.8509e5	2.500	-3.1	6.53	0.515	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.205	NO	1.9608e4	8.4960e5	2.500	1.9	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4785e4	6.9692e5	2.500	-0.2	6.93	0.696	0.0602
7	OCDD	41.25	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.923	0.0767
8	2,3,7,8-TCDF	25.11	0.746	NO	8.7318e3	2.2156e6	0.500	0.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.8524e4	1.6515e6	2.500	0.1	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8966e4	1.6151e6	2.500	-0.1	4.90	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2618e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.187	NO	2.5479e4	1.1632e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.183	NO	2.3827e4	1.0498e6	2.500	-1.5	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8611e4	6.7735e5	2.500	-1.8	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7338e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1991e4	4.9230e5	2.500	3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4610e6	5.000	-2.4	7.16	0.802	0.0575



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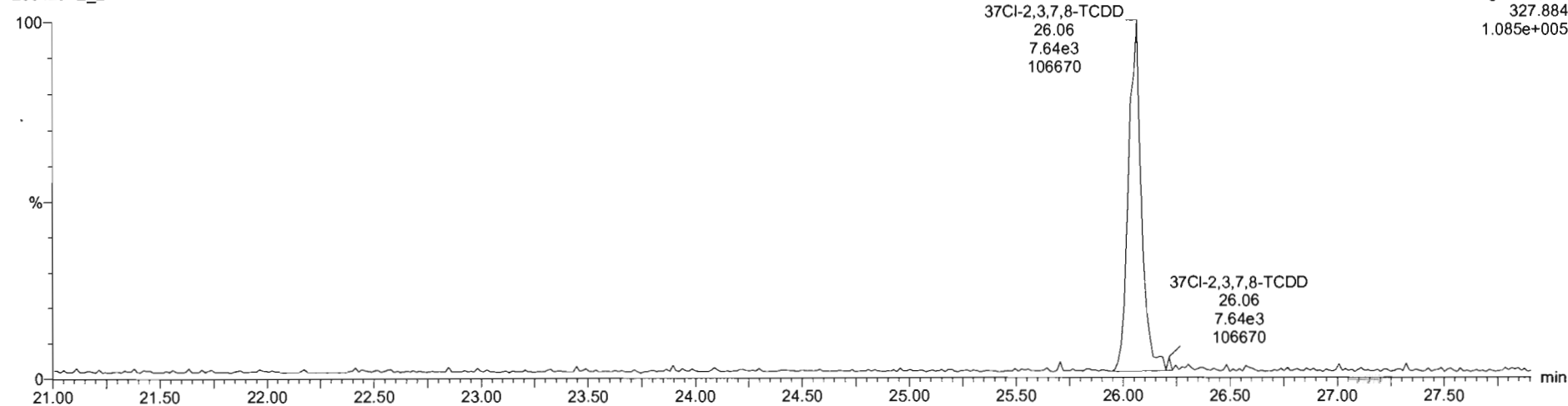
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37Cl-2,3,7,8-TCDD

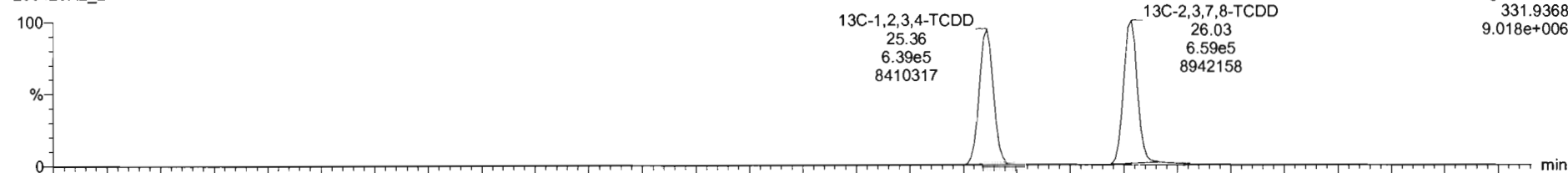
200429R2_2



F1:Voltage SIR,EI+
327.884
1.085e+005

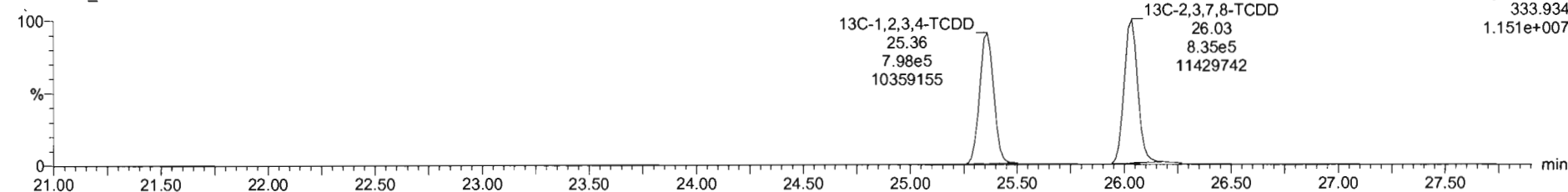
13C-1,2,3,4-TCDD

200429R2_2



F1:Voltage SIR,EI+
331.9368
9.018e+006

200429R2_2



F1:Voltage SIR,EI+
333.934
1.151e+007

Dataset: Untitled

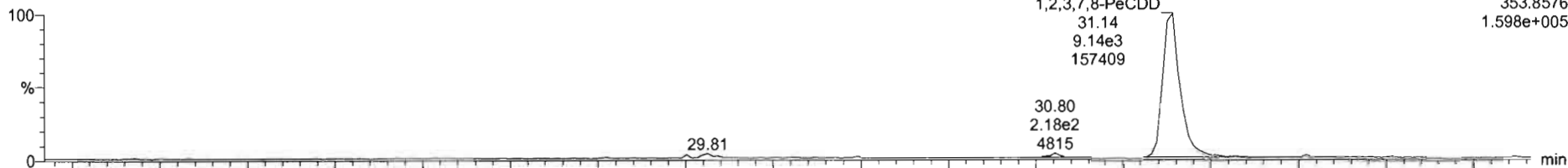
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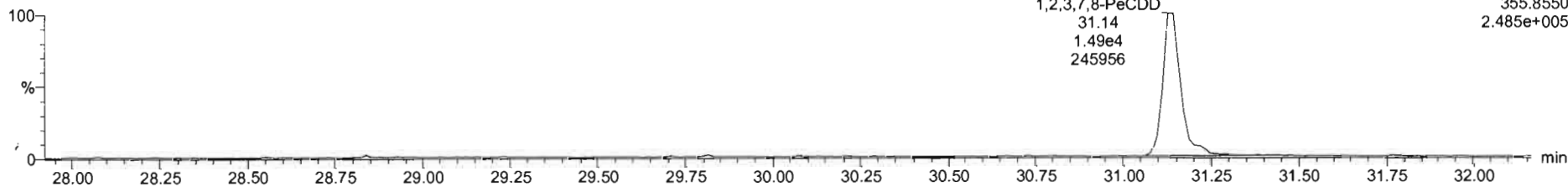
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1,2,3,7,8-PeCDD

200429R2_2

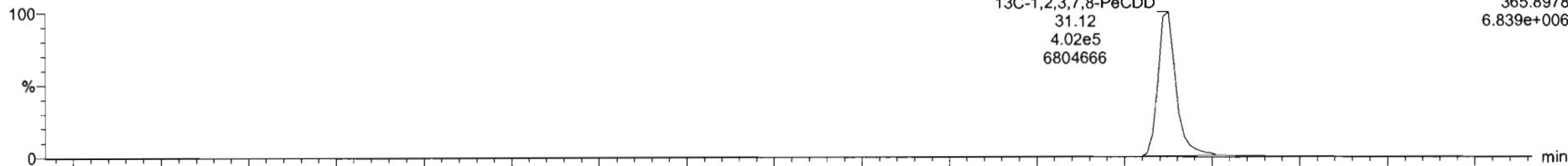


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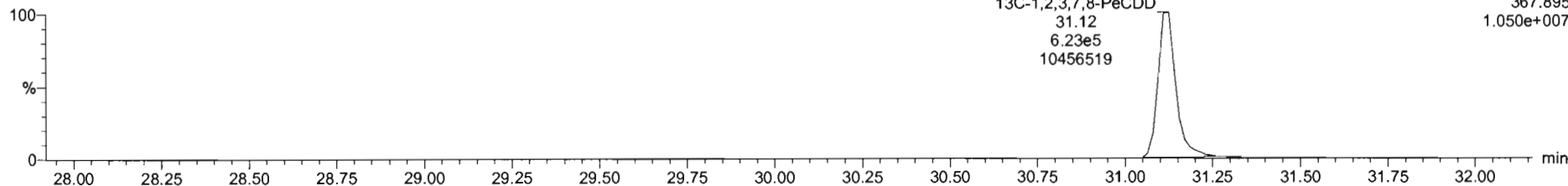


13C-1,2,3,7,8-PeCDD

200429R2_2



200429R2_2



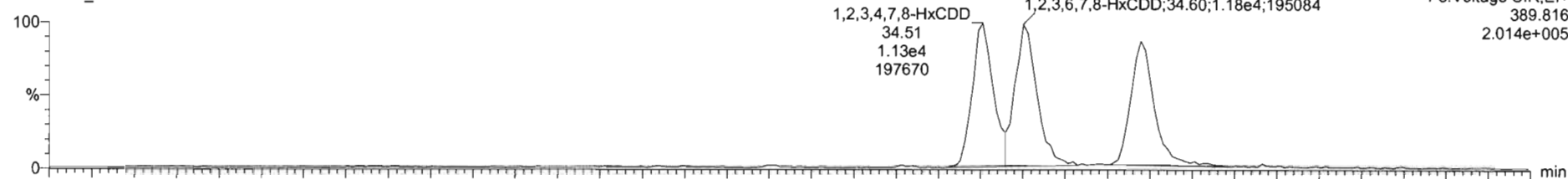
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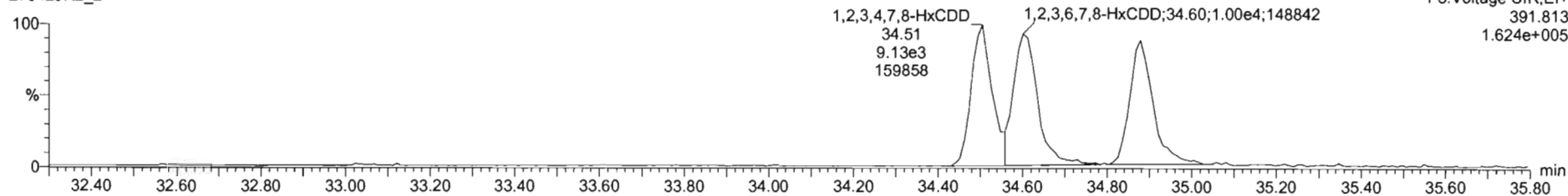
1,2,3,4,7,8-HxCDD

200429R2_2



F3: Voltage SIR, EI+
389.816
2.014e+005

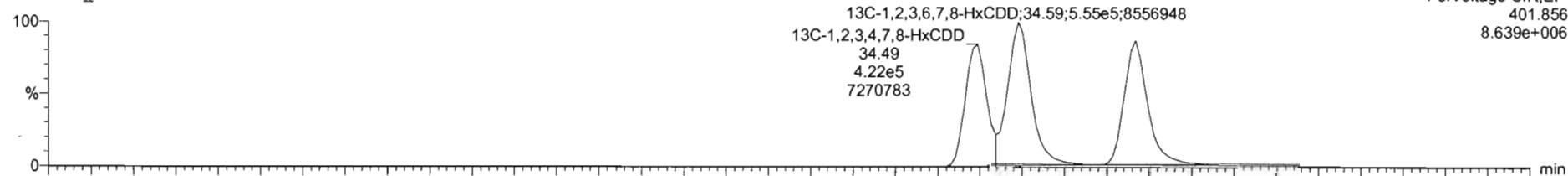
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F3: Voltage SIR, EI+
391.813
1.624e+005

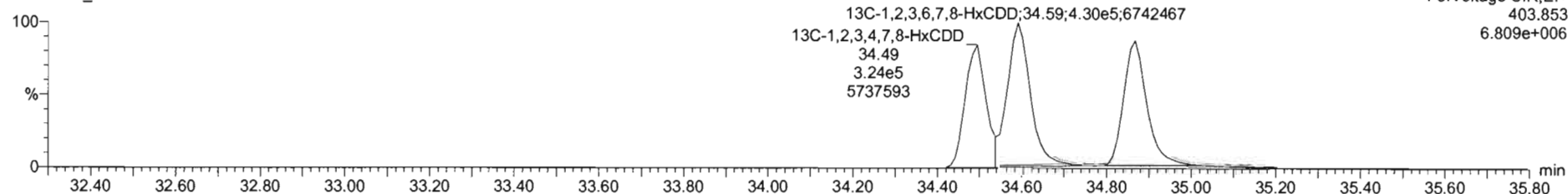
13C-1,2,3,4,7,8-HxCDD

200429R2_2



F3: Voltage SIR, EI+
401.856
8.639e+006

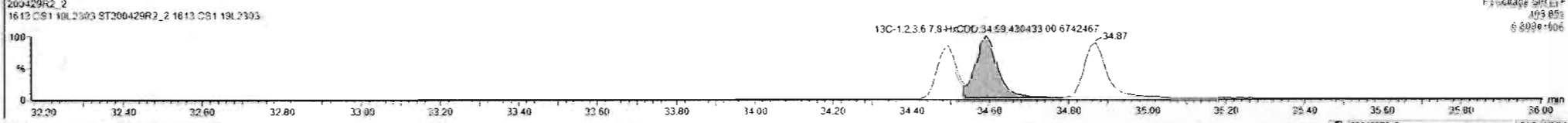
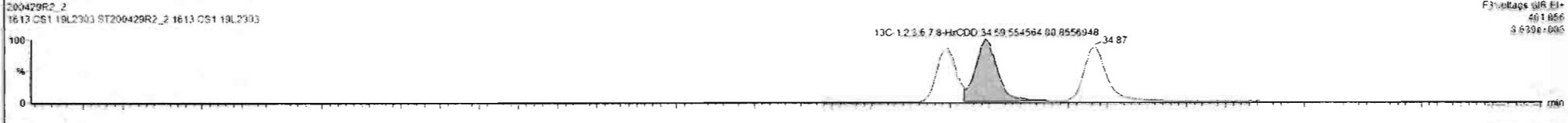
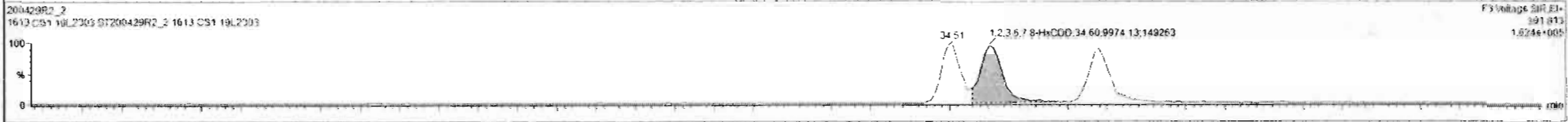
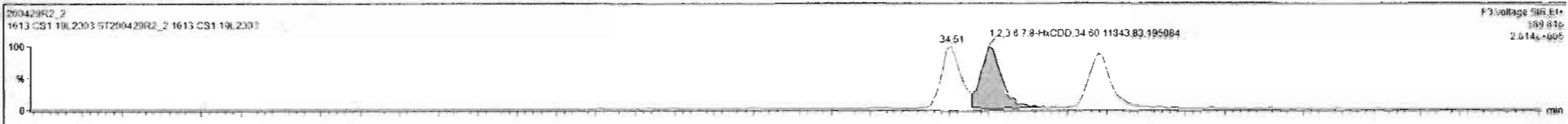
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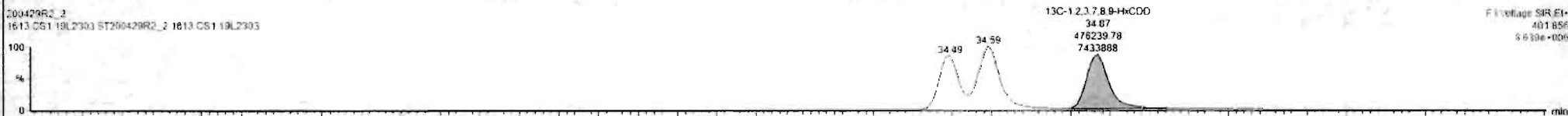
F3: Voltage SIR, EI+
403.853
6.809e+006

200429R2_2 - ST200429R2_2 1613 CS1 19L2303 - 1613 CS1 19L2303

#	Name	RT	RA	Yn	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.731	NO	6.8615e3	1.4940e6	0.500	2.6	6.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.167	NO	2.1618e4	9.8599e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.205	NO	1.9608e4	8.4560e5	2.500	1.9	7.64	0.915	0.0599
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4785e4	6.5992e5	2.500	-0.2	8.93	0.896	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.933	0.0707
8	2,2,7,8-TCDF	25.11	0.746	NO	8.7318e3	2.2158e6	0.500	0.1	5.11	0.787	0.0492
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.6534e4	1.6915e6	2.500	0.1	5.66	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	20.82	1.528	NO	3.8866e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.211	NO	2.2616e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1832e6	2.500	-1.4	7.23	0.674	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8611e4	8.7735e5	2.500	-1.8	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.8418e5	2.500	1.5	7.54	0.671	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1991e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.731	NO	6.8815e3	1.4840e0	0.500	-2.6	5.35	0.547	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e5	2.500	-0.4	5.51	0.942	0.0510
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.187	NO	2.1618e4	9.9500e5	2.500	-3.1	6.53	0.515	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.225	NO	1.9028e4	8.4500e5	2.500	1.9	7.64	0.915	0.0599
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4785e4	6.5982e5	2.500	-0.2	6.93	0.856	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.923	0.0707
8	1,2,3,7,8-TCDF	25.11	0.746	NO	8.7318e3	2.2188e0	0.500	0.1	5.11	0.787	0.0402
9	1,2,3,7,8-PeCDF	29.82	1.542	NO	3.8824e4	1.6915e6	2.500	0.1	5.86	0.910	0.0523
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8866e4	1.6151e6	2.500	-0.1	4.90	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2618e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.187	NO	2.5479e4	1.1832e6	2.500	-1.4	7.23	0.674	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8511e4	8.7735e5	2.500	1.8	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.8418e5	2.500	1.5	7.54	0.671	0.0657
16	1,2,3,4,7,8,9-HpCDF	28.95	0.954	NO	1.1591e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



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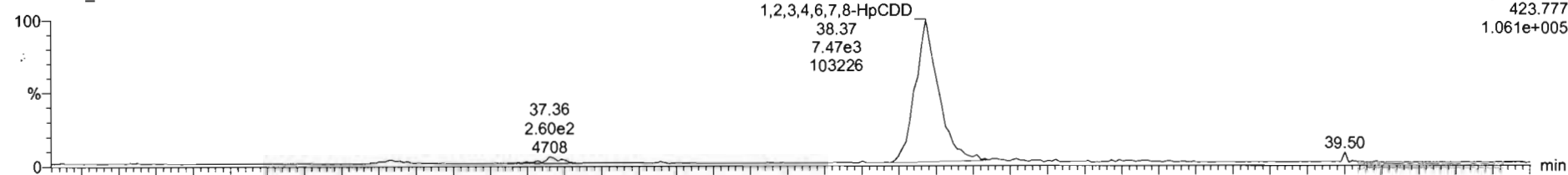
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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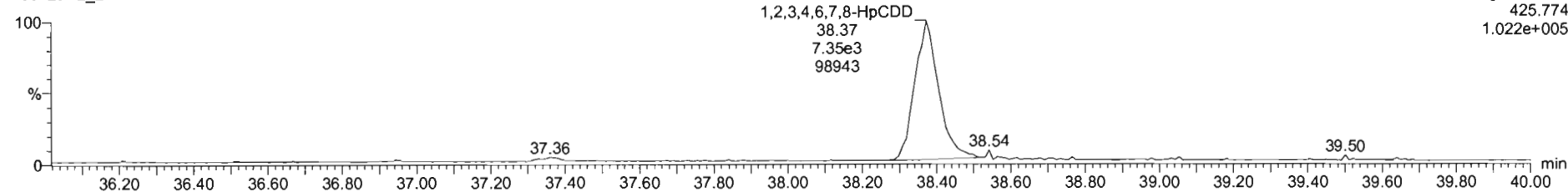
1,2,3,4,6,7,8-HpCDD

200429R2_2



F4:Voltage SIR,EI+
423.777
1.061e+005

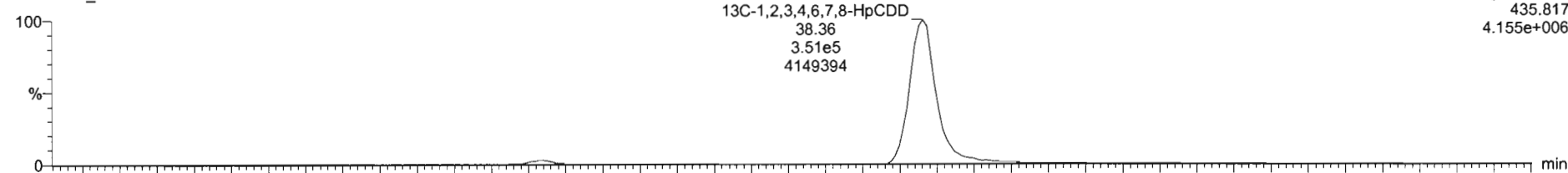
200429R2_2



F4:Voltage SIR,EI+
425.774
1.022e+005

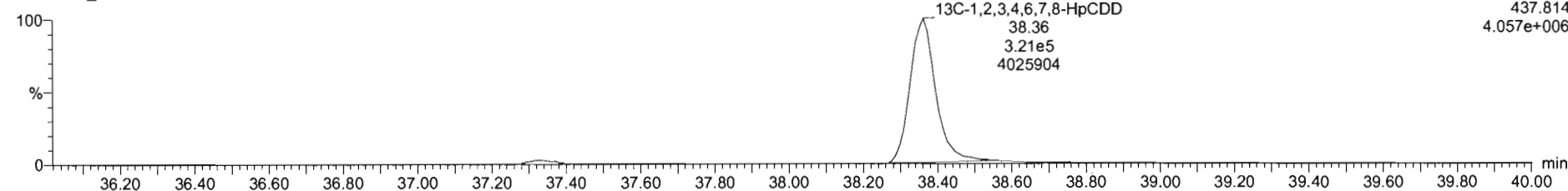
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200429R2_2

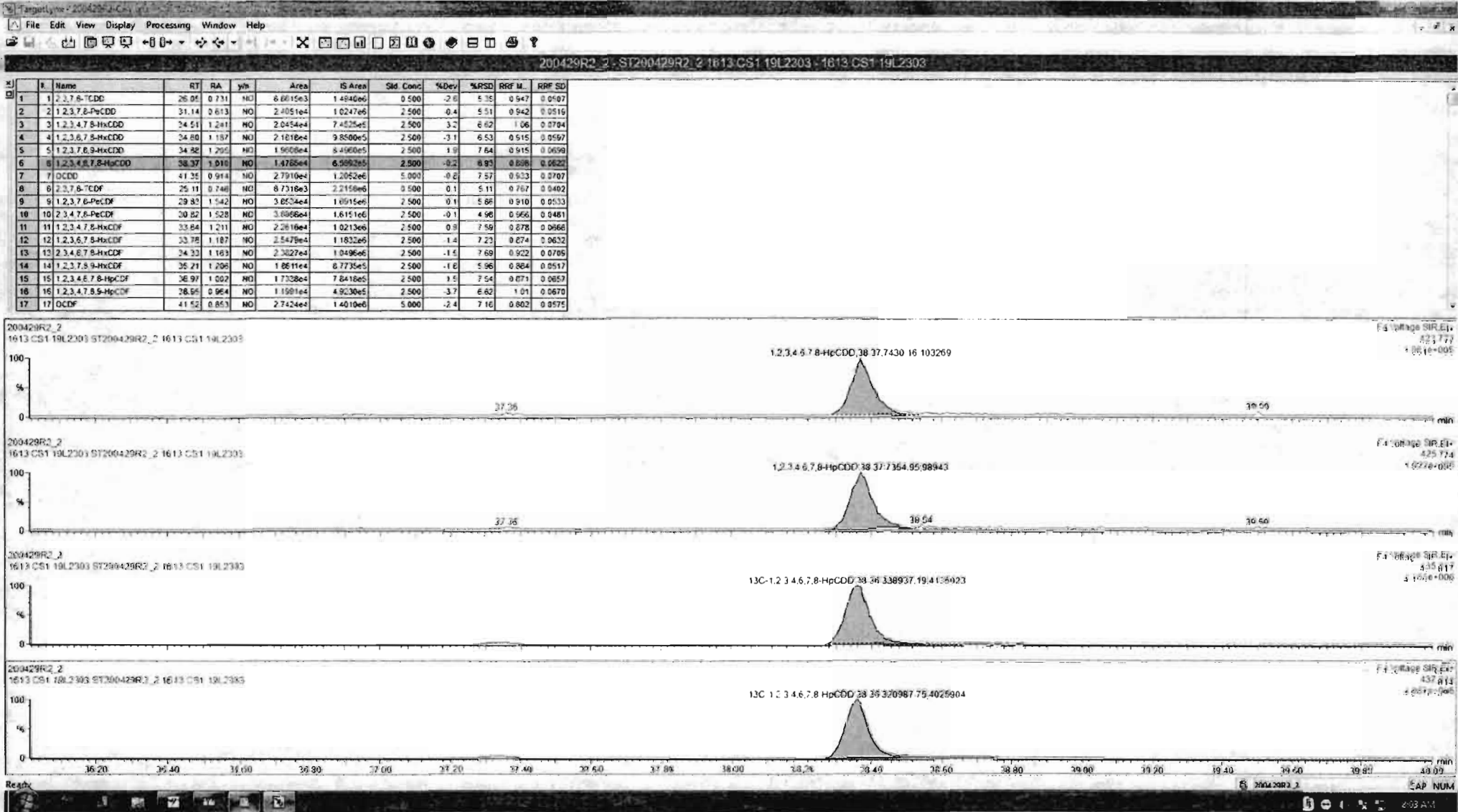


F4:Voltage SIR,EI+
435.817
4.155e+006

200429R2_2



F4:Voltage SIR,EI+
437.814
4.057e+006



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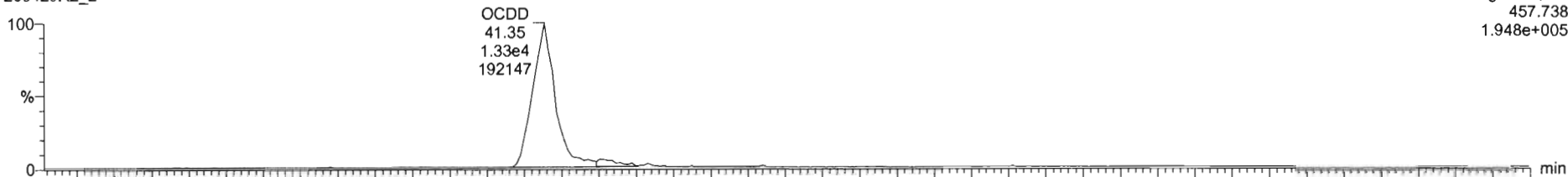
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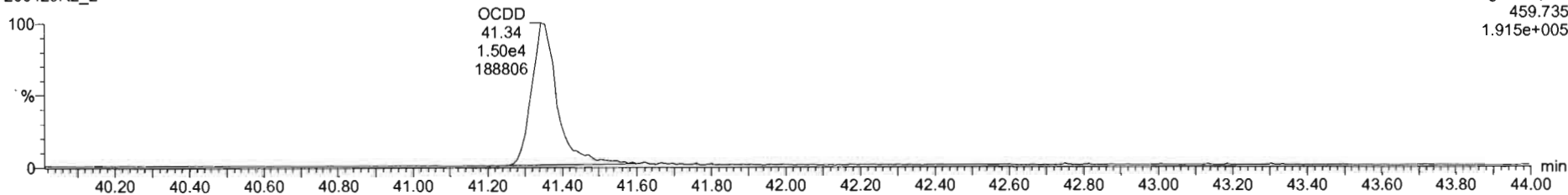
OCDD

200429R2_2



F5: Voltage SIR, EI+
457.738
1.948e+005

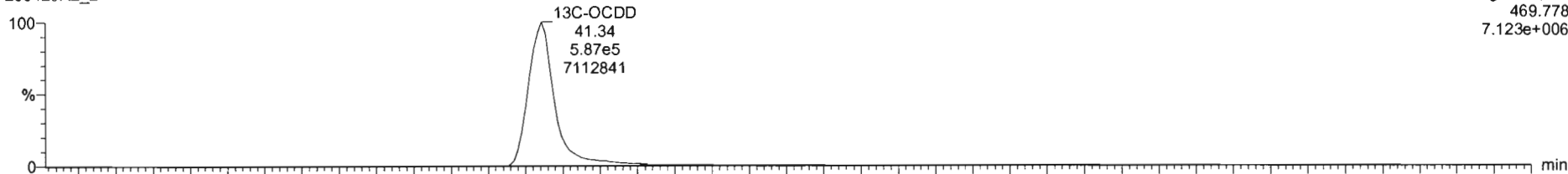
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1.915e+005

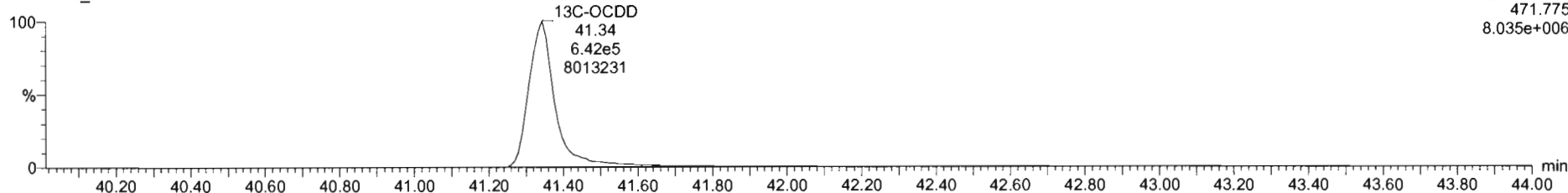
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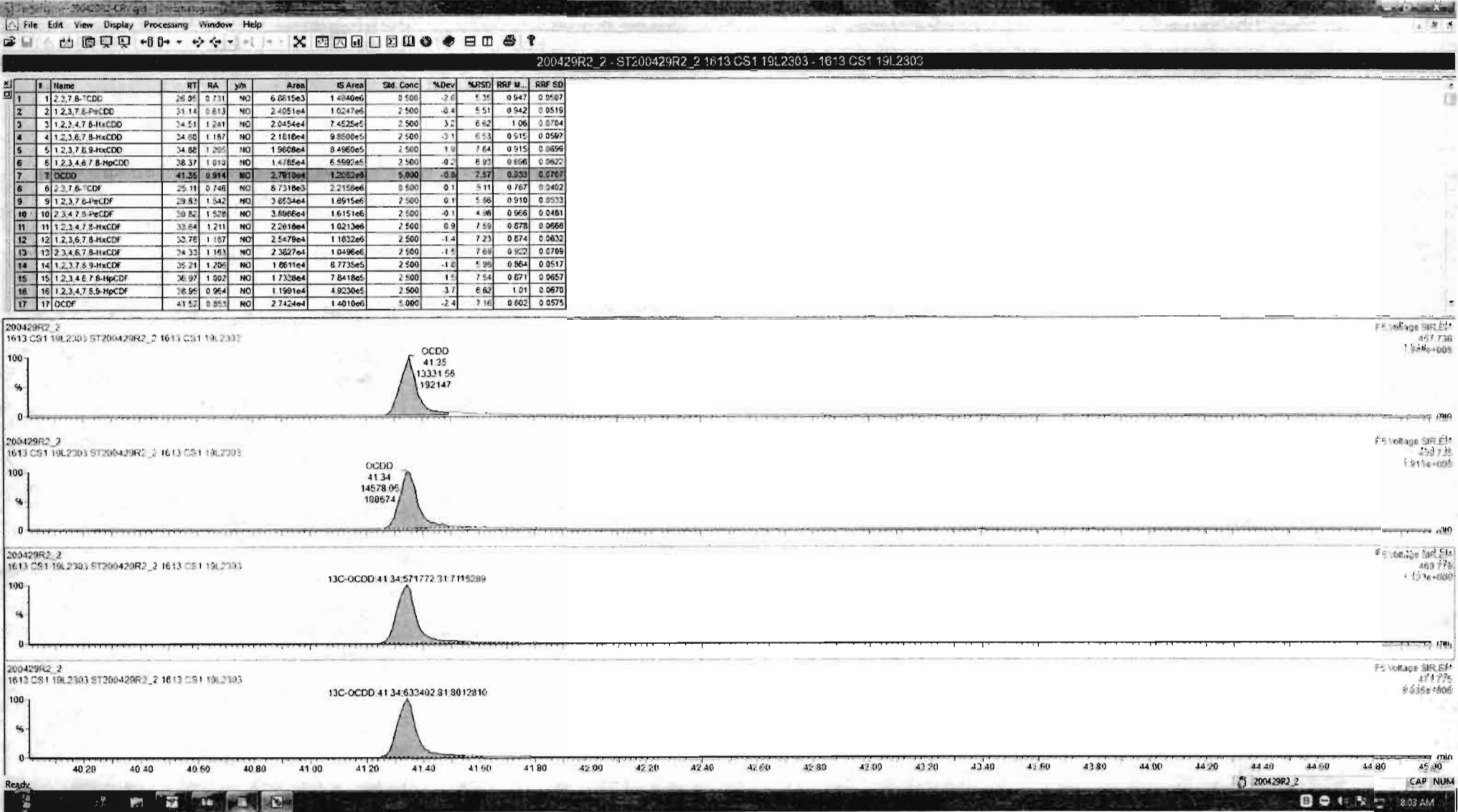


F5: Voltage SIR, EI+
469.778
7.123e+006

200429R2_2



F5: Voltage SIR, EI+
471.775
8.035e+006



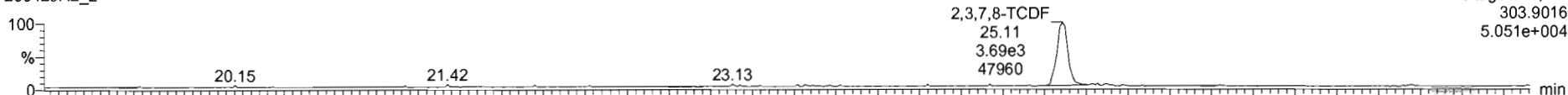
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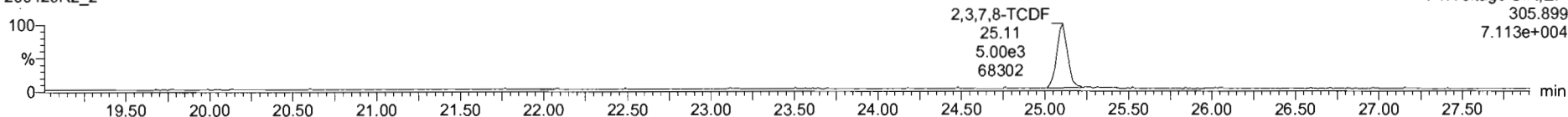
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2,3,7,8-TCDF

200429R2_2

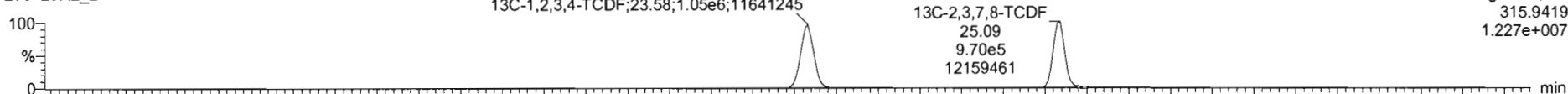


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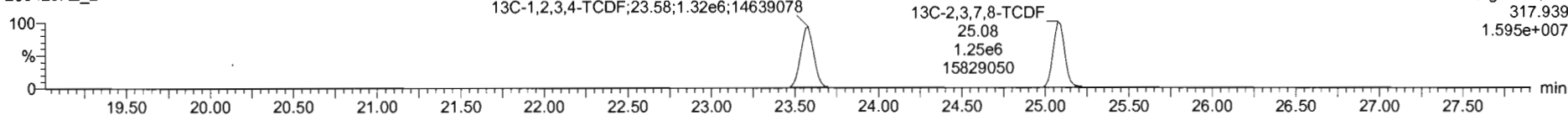


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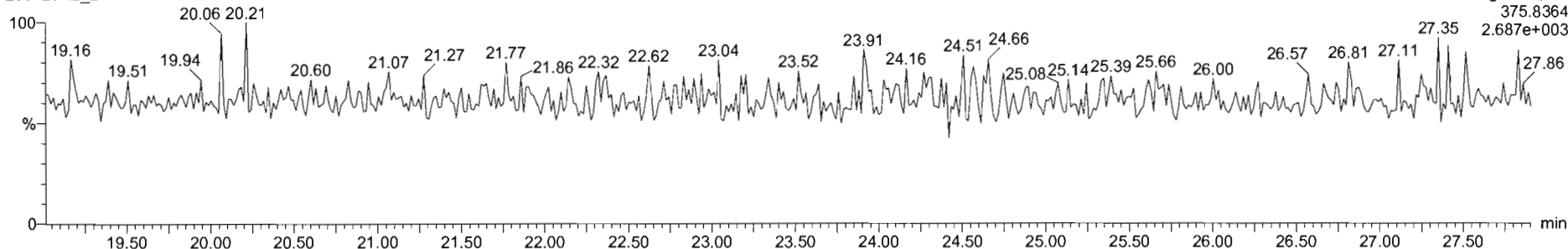


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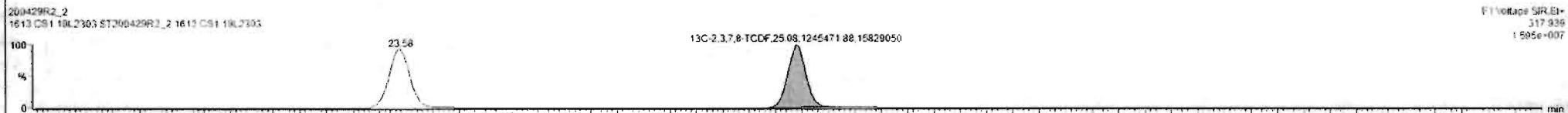
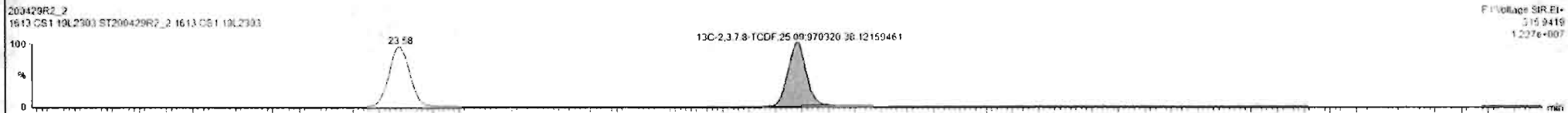
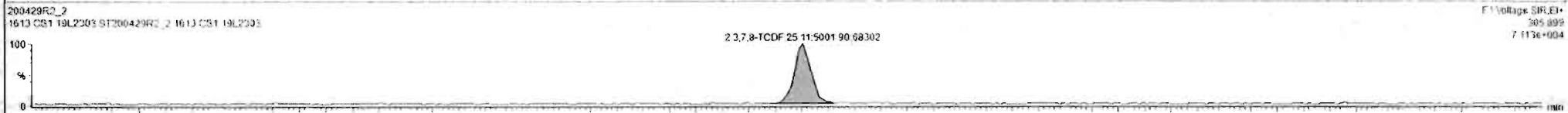
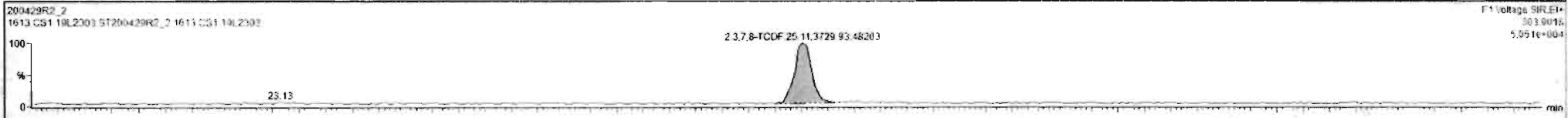


DPE1

200429R2_2



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1 2,3,7,8-TCDD	25.05	0.731	NO	6.6615e3	1.4940e6	0.500	-2.6	5.35	0.947	0.0507
2	2 1,2,3,7,8-PeCDD	31.14	0.813	NO	2.4051e4	1.0247e6	2.500	0.4	5.51	0.942	0.0515
3	3 1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	4 1,2,3,6,7,8-HxCDD	34.80	1.187	NO	2.1618e4	9.5006e5	2.500	-3.1	6.53	0.915	0.0597
5	5 1,2,3,7,8,9-HxCDD	34.98	1.205	NO	1.9808e4	8.4990e5	2.500	1.9	7.64	0.915	0.0699
6	6 1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4785e4	6.5990e5	2.500	-0.2	6.37	0.856	0.0622
7	7 OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.2	7.57	0.523	0.0707
8	8 2,3,7,8-TCDF	25.11	0.746	NO	8.7518e3	2.2158e6	0.500	0.1	5.11	0.787	0.0462
9	9 1,2,3,7,8-PeCDF	29.83	1.542	NO	3.6554e4	1.6915e6	2.500	0.1	5.86	0.910	0.0533
10	10 2,3,4,7,8-PeCDF	30.82	1.628	NO	3.8966e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0481
11	11 1,2,3,4,7,8-HxCDF	33.64	1.211	NO	2.2610e4	1.0213e6	2.500	0.9	7.19	0.878	0.0666
12	12 1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1622e6	2.500	-1.4	7.23	0.874	0.0632
13	13 2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	14 1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8611e4	8.7735e5	2.500	-1.6	5.96	0.864	0.0517
15	15 1,2,3,4,6,7,8-HpCDF	38.97	1.002	NO	1.7328e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	16 1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1991e4	4.9230e5	2.500	3.7	6.62	1.01	0.0670
17	17 OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



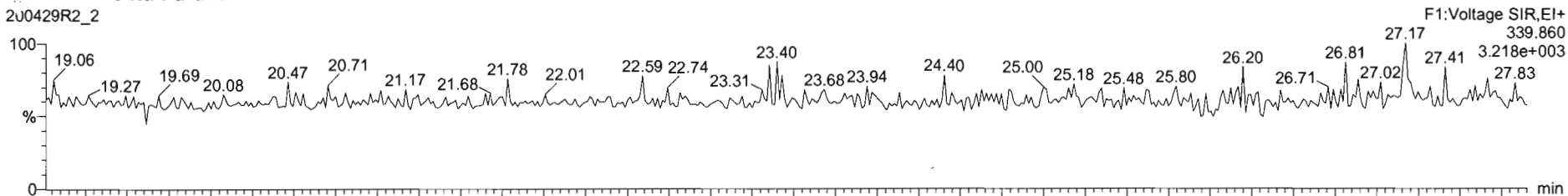
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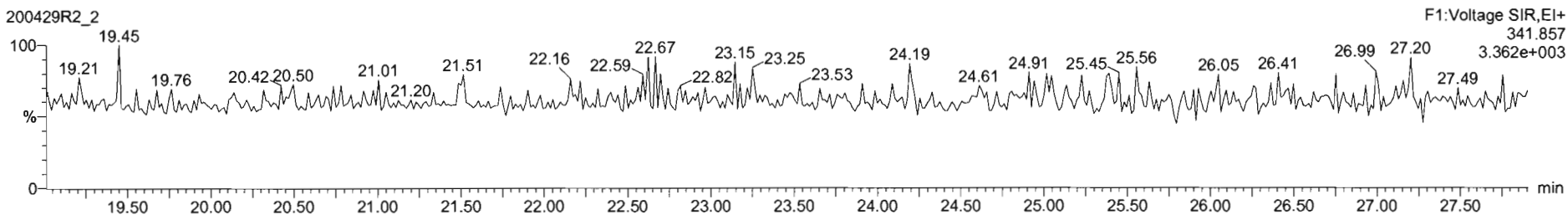
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1st Func. Penta-Furans

2U0429R2_2

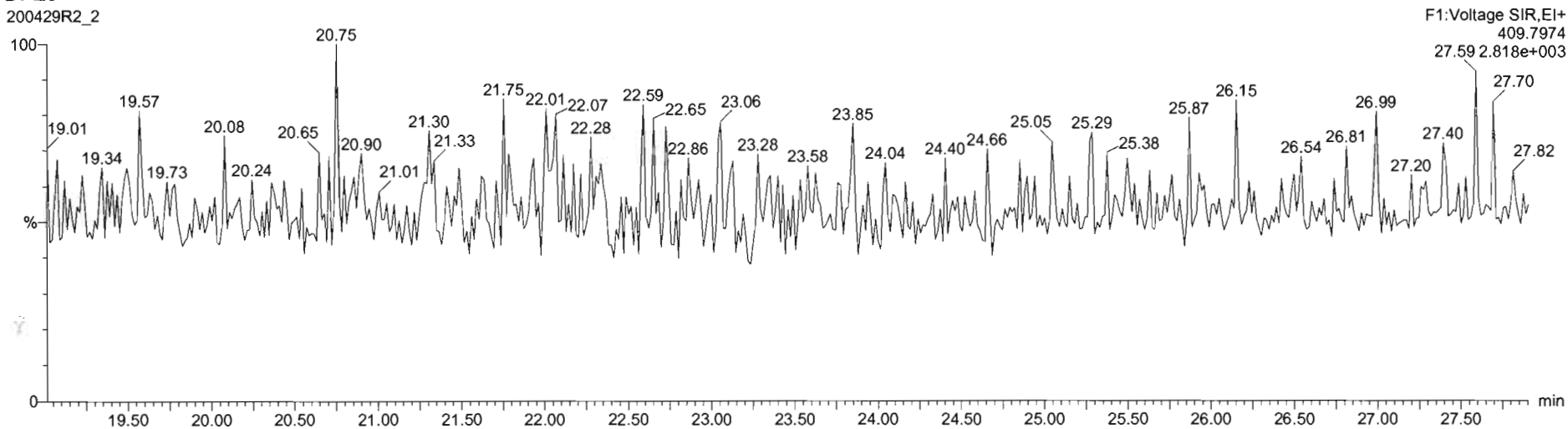


200429R2_2



DPE6

200429R2_2



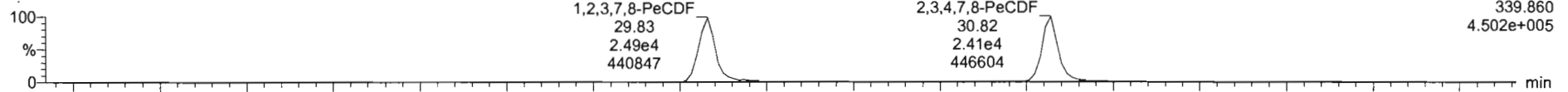
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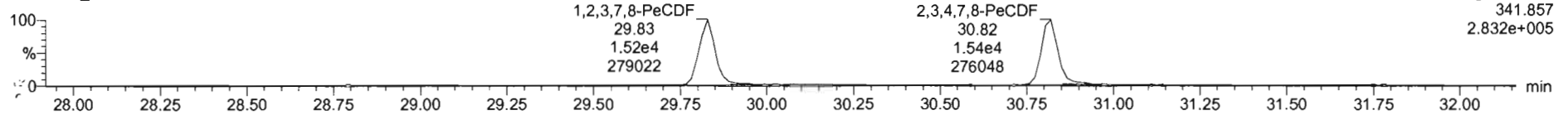
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200429R2_2

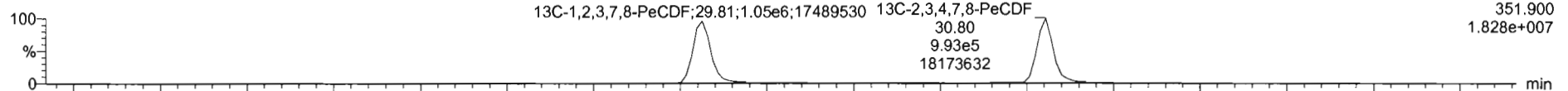


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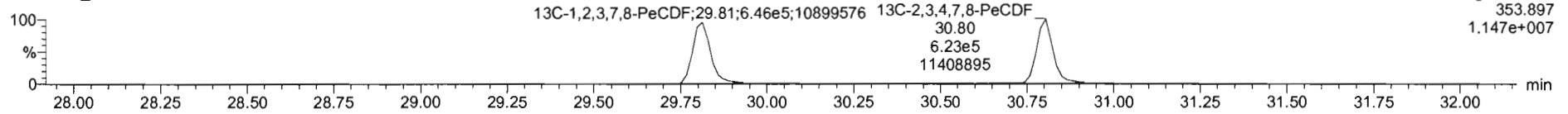


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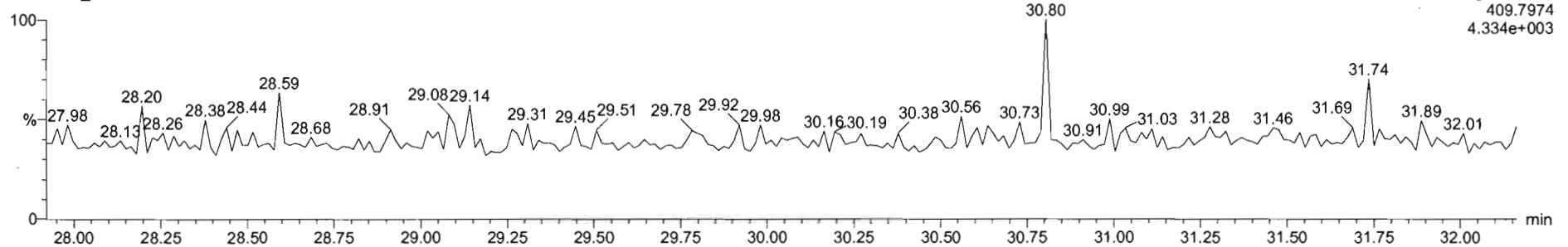


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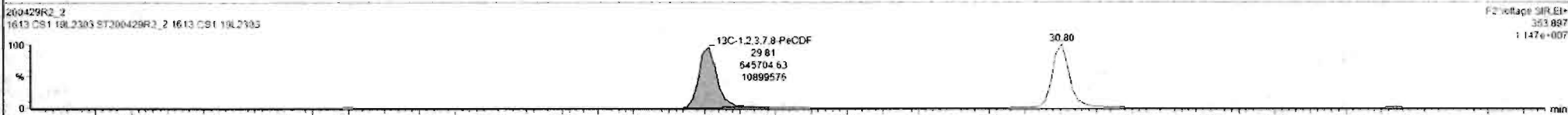
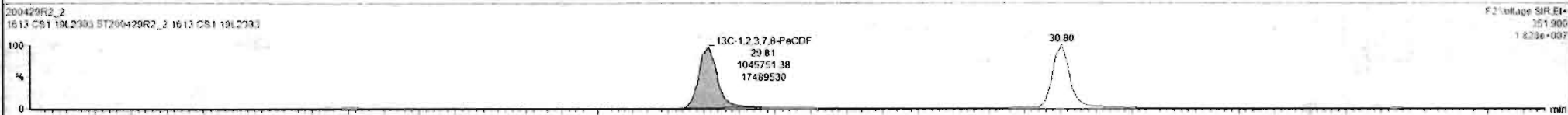
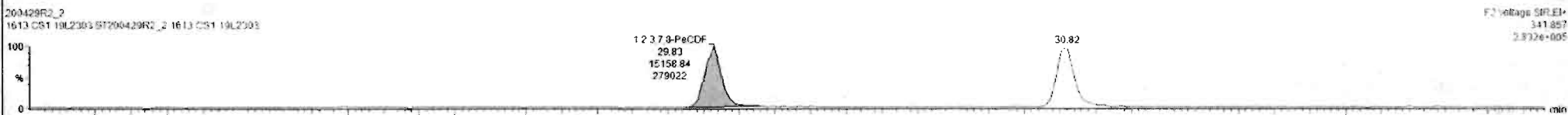
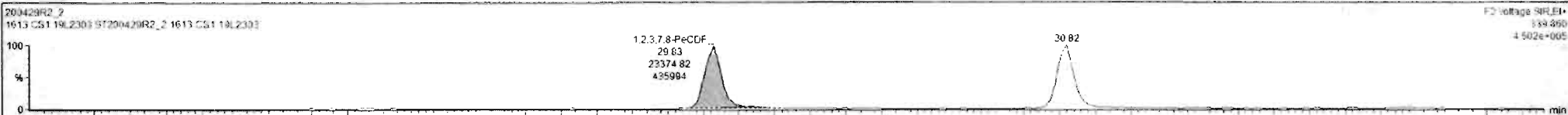


DPE2

200429R2_2



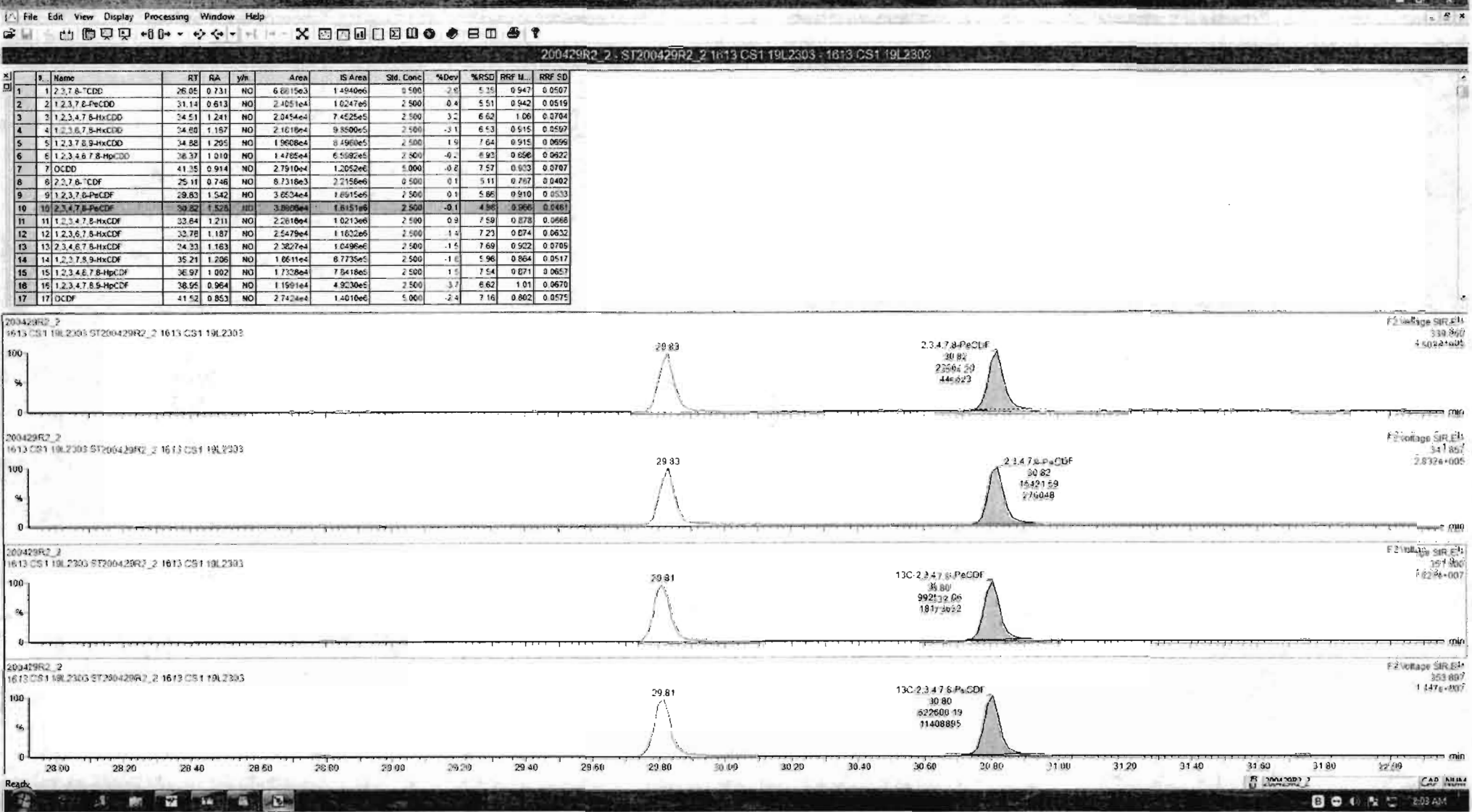
#	Name	RT	RA	ym	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	28.95	0.731	NO	6.2615e3	1.4840e6	0.500	-2.6	5.37	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	0.4	5.51	0.942	0.0515
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4225e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,7,8-HxCDD	34.80	1.187	NO	2.1810e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.295	NO	1.9808e4	8.4960e5	2.500	1.9	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.856	0.0620
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.923	0.0707
8	1,2,3,6,7,8-PeCDF	25.11	0.748	NO	8.7310e3	2.2158e6	0.500	0.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.8534e4	1.6815e6	2.500	0.1	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.028	NO	3.8066e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	32.84	1.211	NO	2.2616e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	32.78	1.187	NO	2.5479e4	1.1632e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.183	NO	2.5827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8511e4	8.7735e5	2.500	-1.0	6.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7338e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.964	NO	1.1591e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.653	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.662	0.0575



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200429R2_2 CAP NUM

8:03 AM



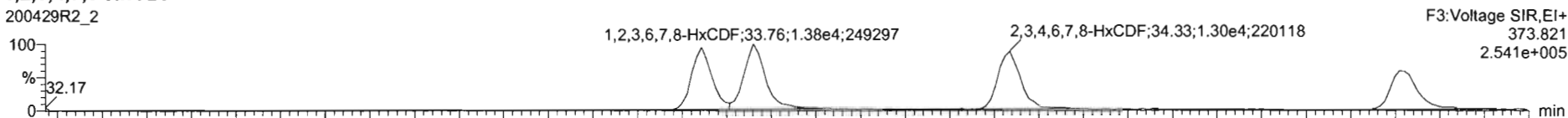
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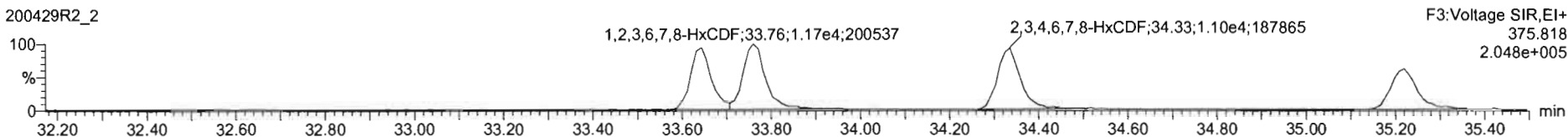
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200429R2_2

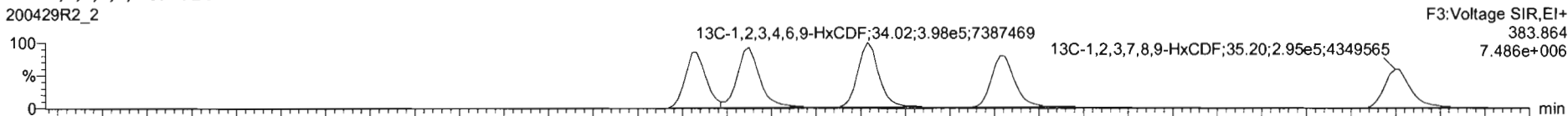


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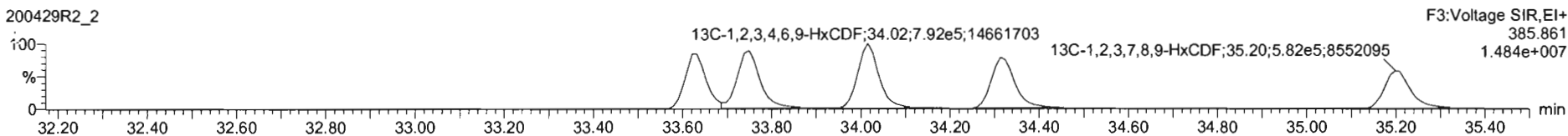


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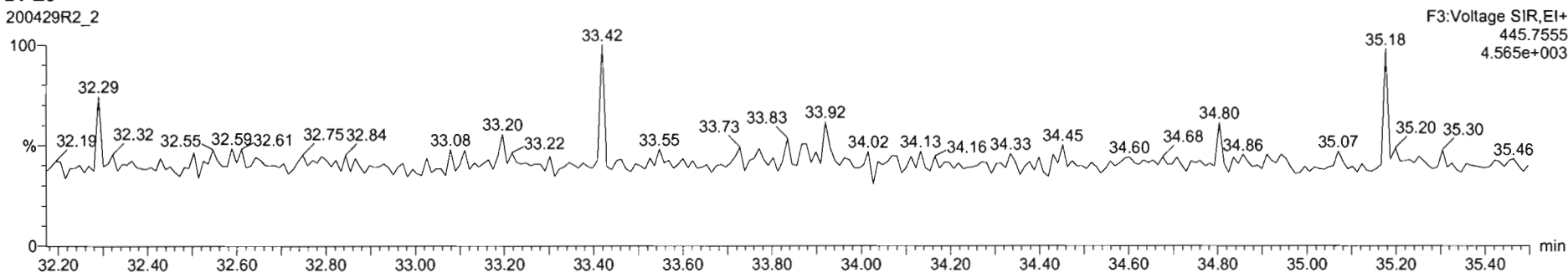


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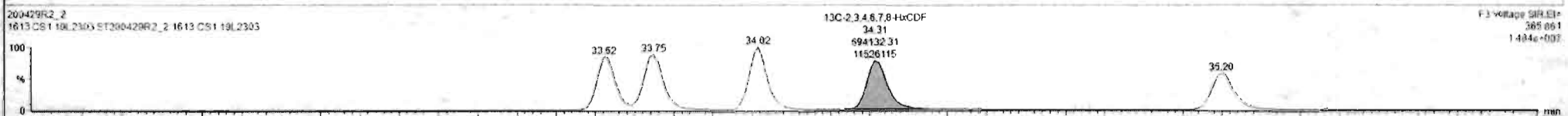
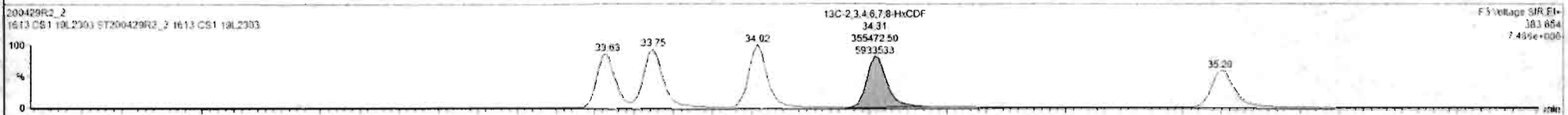


DPE3

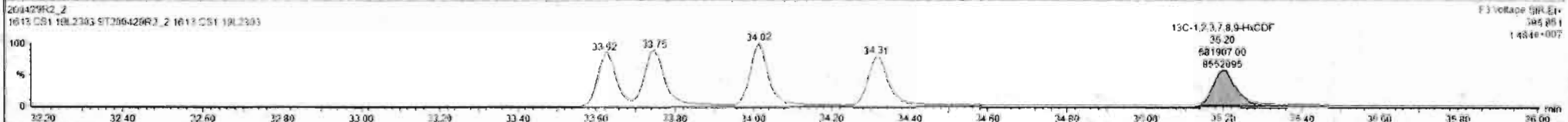
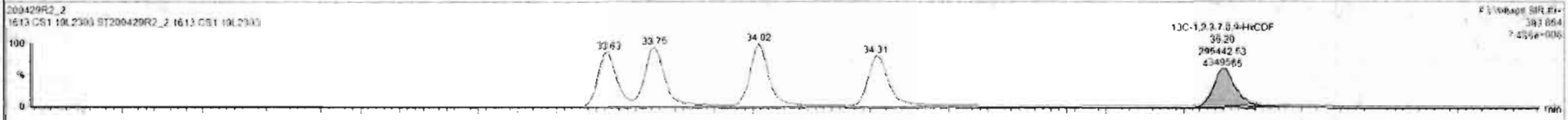
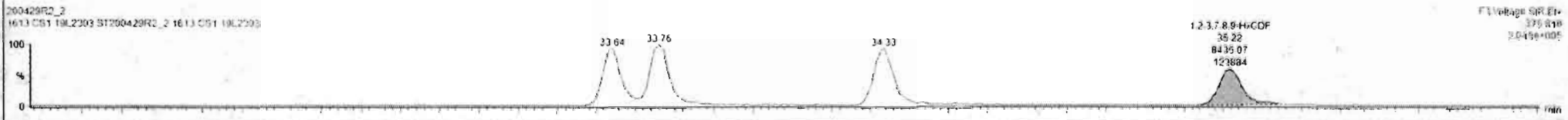
200429R2_2



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDF	26.95	0.731	NO	6.8615e3	1.4840e6	0.500	-2.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.14	0.613	NO	2.4051e4	1.0247e5	2.500	0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.187	NO	2.1618e4	9.8000e5	2.500	-2.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.80	1.205	NO	1.9608e4	8.4960e5	2.500	1.9	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.856	0.0622
7	OCDF	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.923	0.0707
8	2,3,7,8-TCDF	25.11	0.746	NO	6.7316e3	2.2158e6	0.500	0.1	5.11	0.767	0.0403
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.6934e4	1.6915e6	2.500	0.1	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8966e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2810e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.187	NO	2.5479e4	1.1632e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0490e6	2.500	-1.5	7.69	0.822	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.9611e4	8.7735e5	2.500	-1.6	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.6418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1991e4	4.9230e5	2.500	3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



#	Name	RT	RA	ym	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.731	NO	6.8615e3	1.4540e6	0.500	-2.0	6.35	0.547	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.9454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.00	1.157	NO	2.1618e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.205	NO	1.9608e4	3.4560e5	2.500	1.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.37	1.019	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.896	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.0	7.57	0.923	0.0707
8	1,2,3,7,8-TCDF	25.11	0.748	NO	8.7310e3	2.2158e6	0.500	0.1	5.11	0.757	0.0462
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.8534e4	1.6915e6	2.500	0.1	5.06	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	29.82	1.528	NO	3.8666e4	1.6151e6	2.500	-0.1	4.90	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2616e4	1.0213e6	2.500	0.0	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1032e6	2.500	-1.4	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8071e4	8.7735e5	2.500	-1.0	5.96	0.804	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.6418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.964	NO	1.1991e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



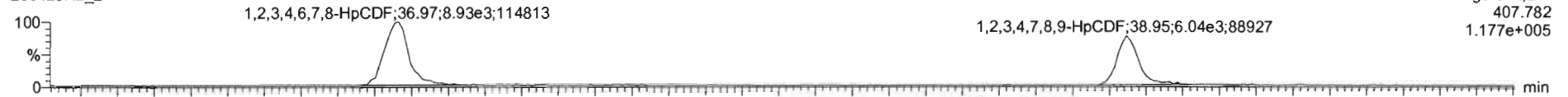
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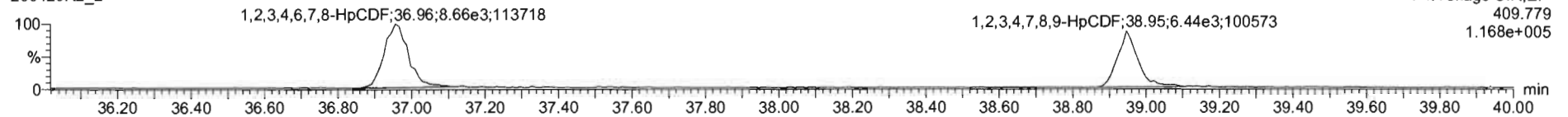
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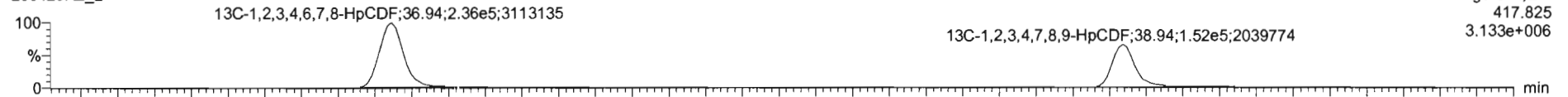


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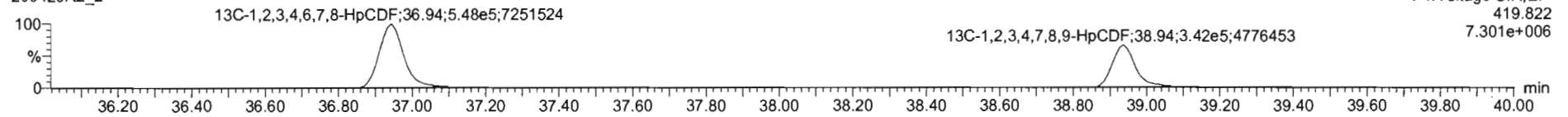


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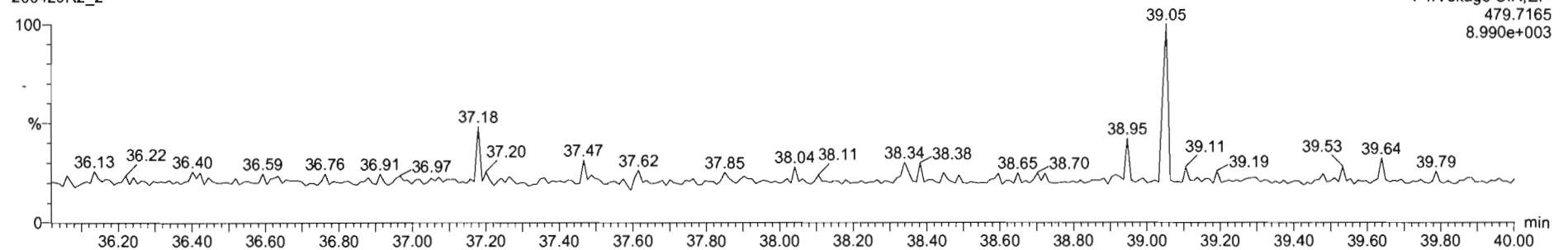


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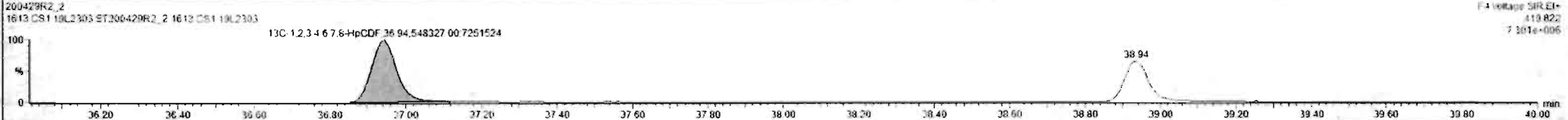
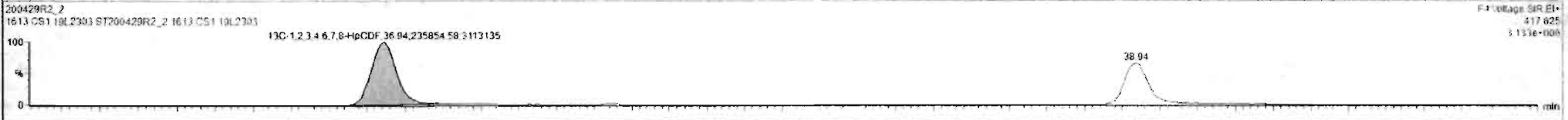
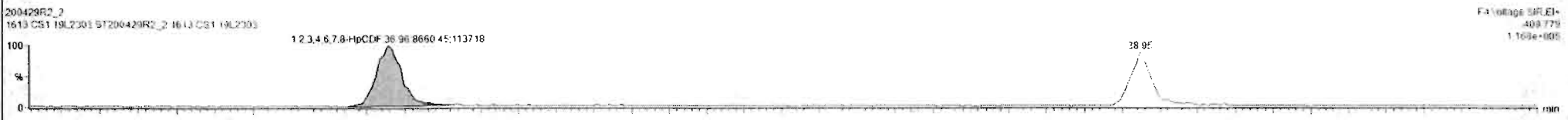


DPE4

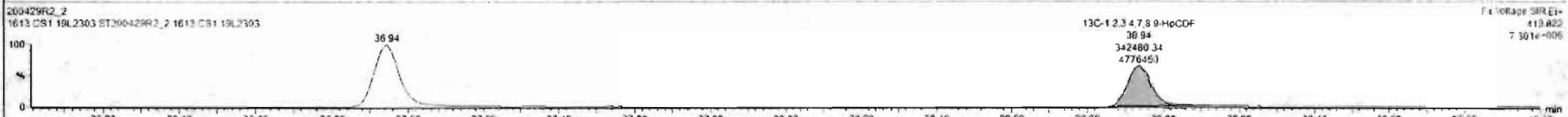
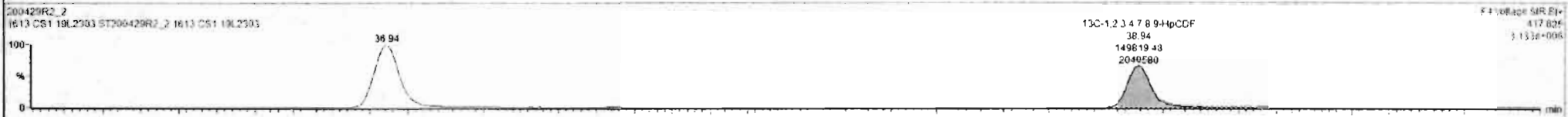
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#	Name	RT	RA	yln	Area	IS Area	Std Conc	%Dev	MRSD	RRF M	RRF SD
1	1,2,3,7,8-TCDF	26.95	0.731	NO	6.2615e3	1.4840e6	0.500	-2.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.8454e4	7.4225e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.157	NO	2.1618e4	9.8600e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.92	1.203	NO	1.5608e4	8.4960e5	2.500	1.6	7.64	0.915	0.0698
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4785e4	6.5992e5	2.500	-0.2	6.93	0.858	0.0622
7	OCDD	41.38	0.954	NO	2.7910e4	1.2052e6	0.000	-0.8	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.746	NO	8.7316e3	2.2158e6	0.500	0.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.0734e4	1.0915e6	2.500	0.1	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.628	NO	3.3686e4	1.6151e6	2.500	-0.1	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2616e4	1.0213e6	2.500	0.9	7.59	0.878	0.0566
12	1,2,3,6,7,8-HxCDF	32.78	1.187	NO	2.5478e4	1.1822e6	2.500	-1.4	7.21	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8511e4	8.7735e5	2.500	-1.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.022	NO	1.7138e4	7.8412e5	2.500	1.5	7.54	0.871	0.0552
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1591e4	4.9230e5	2.500	3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.060	-2.4	7.16	0.862	0.0575



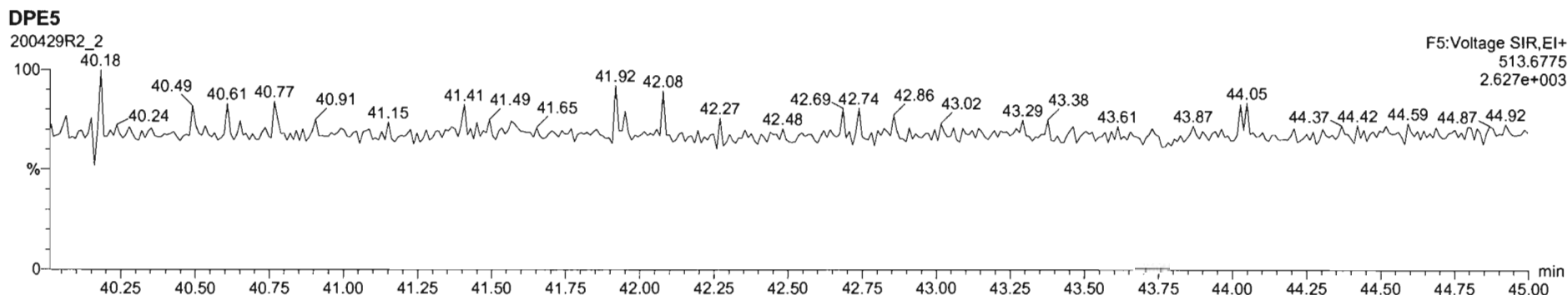
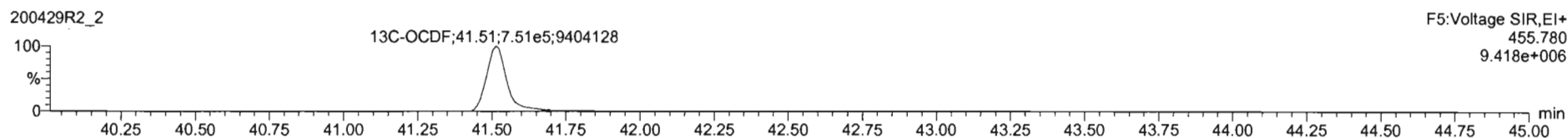
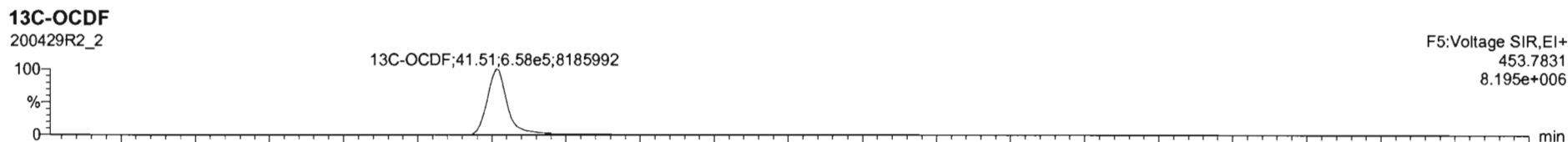
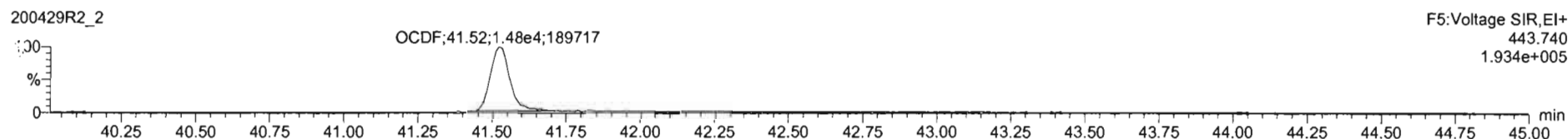
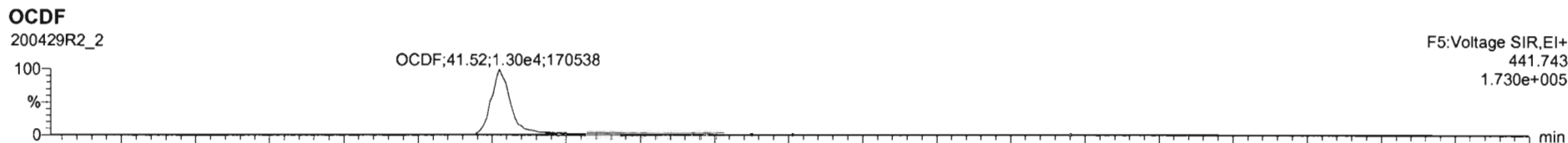
#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.95	0.731	NO	6.8615e3	1.4940e6	0.500	-2.8	5.35	0.947	0.0107
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.42	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.89	1.187	NO	2.1818e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.295	NO	1.9688e4	3.4960e5	2.500	1.6	7.84	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4785e4	6.5990e5	2.500	-0.2	6.93	0.658	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.2	7.57	0.933	0.0707
8	2,3,7,8-TCDF	29.11	0.748	NO	8.7318e3	2.2158e6	0.500	0.1	5.11	0.757	0.0462
9	1,2,3,7,8-PeCDF	29.43	1.542	NO	3.6534e4	1.6915e6	2.500	0.1	5.62	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8986e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.211	NO	2.2818e4	1.0213e6	2.500	0.9	7.59	0.878	0.0668
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1832e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8611e4	8.7735e5	2.500	-1.6	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7338e4	7.8418e5	2.500	1.5	7.54	0.871	0.0617
16	1,2,3,4,7,8,9-HpCDF	38.95	0.984	NO	1.1991e4	4.9238e5	2.500	-3.7	6.82	1.01	0.0679
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.662	0.0575



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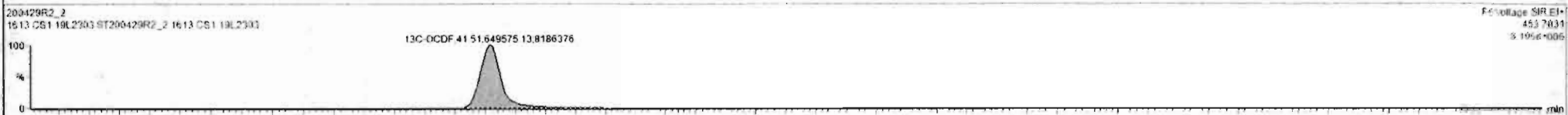
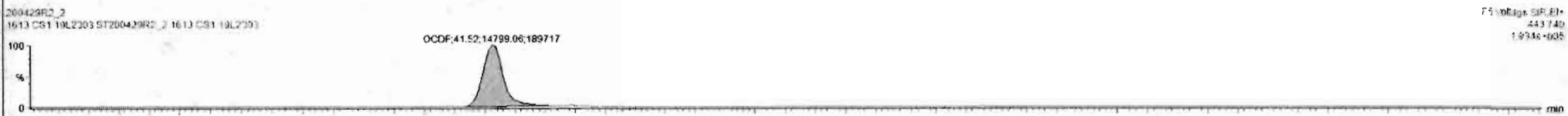
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200429R2_2 - ST200429R2_2 - 1613 CS1 19L2303 - 1613 CS1 19L2303

#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	2,3,7,8-TCDD	26.05	0.731	NO	6.8615e3	1.4840e6	0.500	-2.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.197	NO	2.1618e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.205	NO	1.9808e4	8.4960e5	2.500	1.9	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.696	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.2	7.57	0.633	0.0767
8	2,3,7,8-TCDF	25.11	0.746	NO	8.7310e3	2.2156e6	0.500	0.1	5.11	0.787	0.0462
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.8754e4	1.6915e6	2.500	0.1	5.66	0.910	0.0533
10	1,2,3,4,7,8-HxCDF	30.82	1.528	NO	3.8996e4	1.6151e6	2.500	-0.1	4.95	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2618e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.197	NO	2.5479e4	1.1832e6	2.500	-1.4	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.33	1.163	NO	2.3227e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8611e4	8.7735e5	2.500	-1.6	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.55	0.954	NO	1.1591e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.883	NO	2.7424e4	1.4010e6	5.000	-2.4	7.18	0.802	0.0573

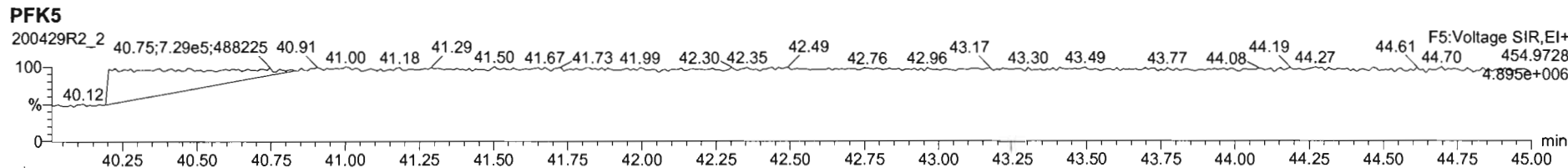
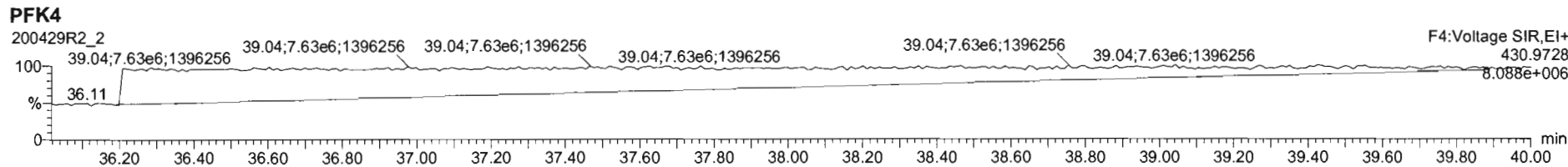
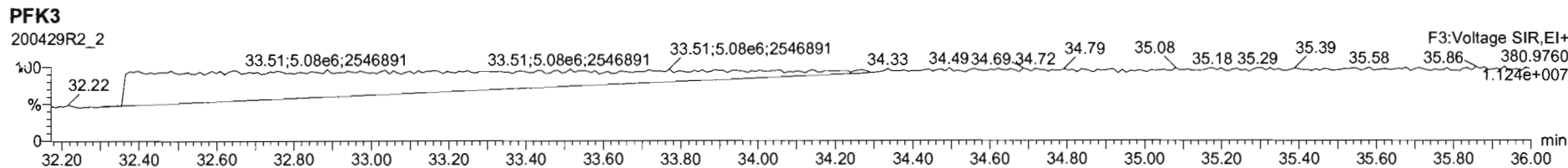
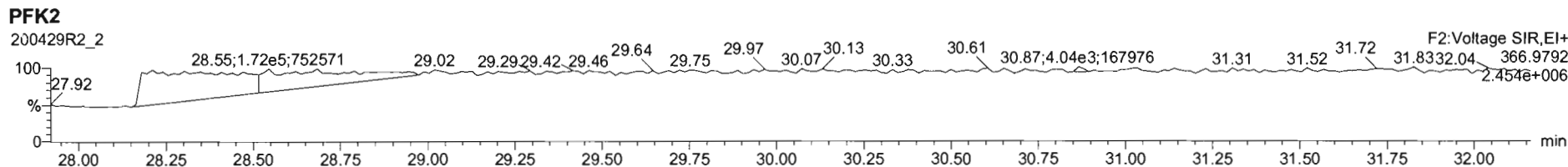
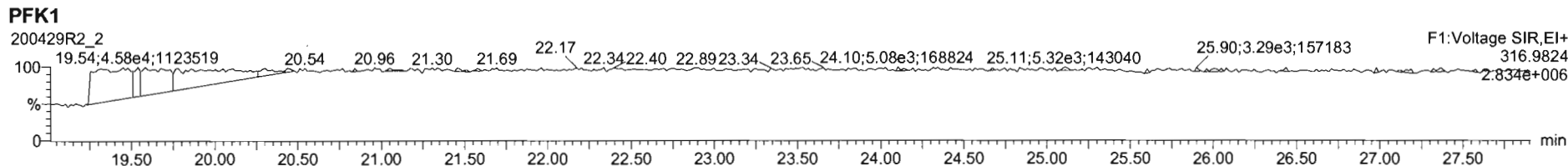


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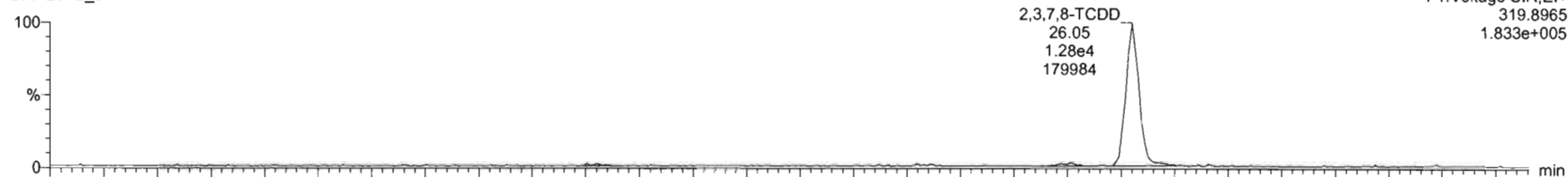
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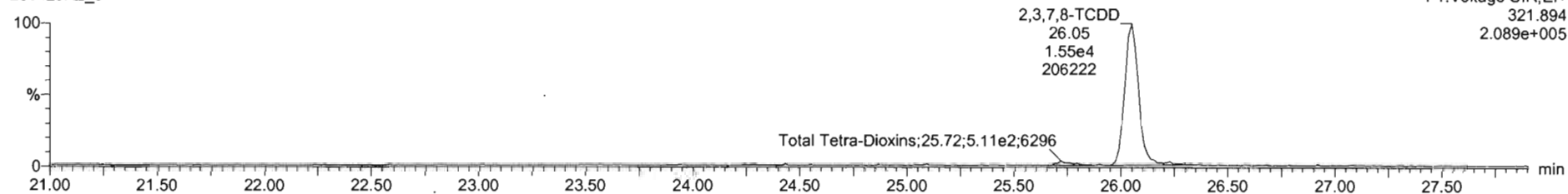
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2,3,7,8-TCDD

200429R2_3

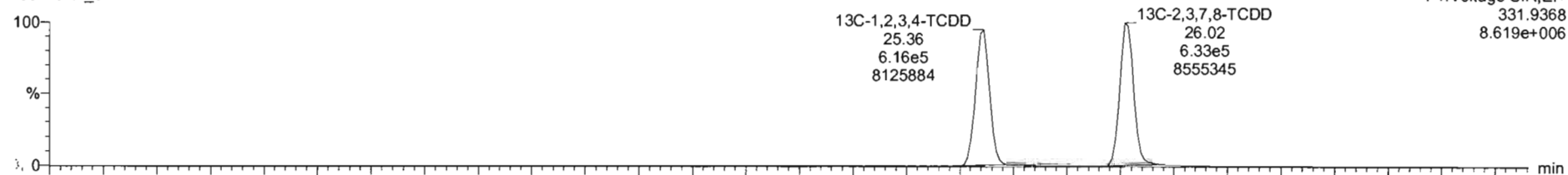


200429R2_3

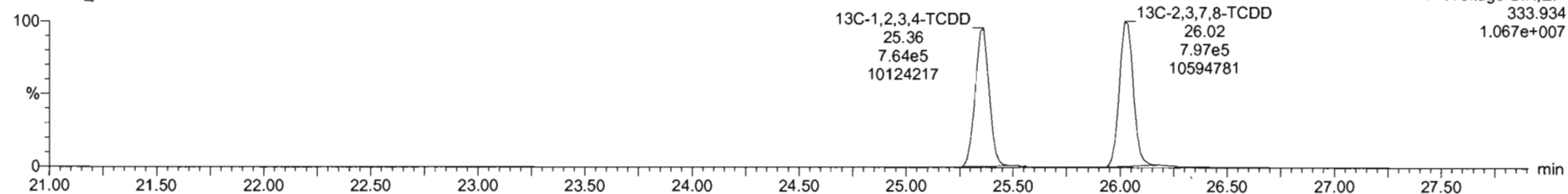


13C-2,3,7,8-TCDD

200429R2_3

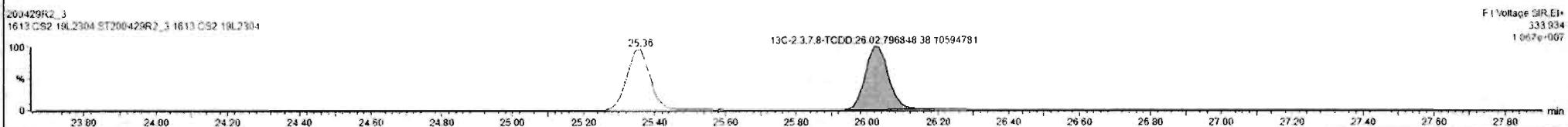
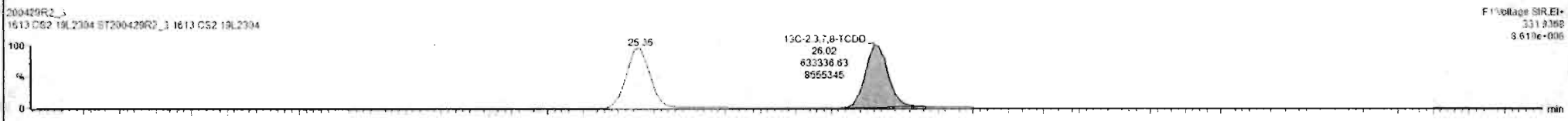
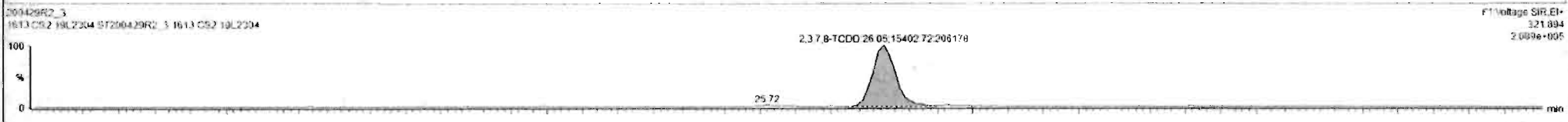
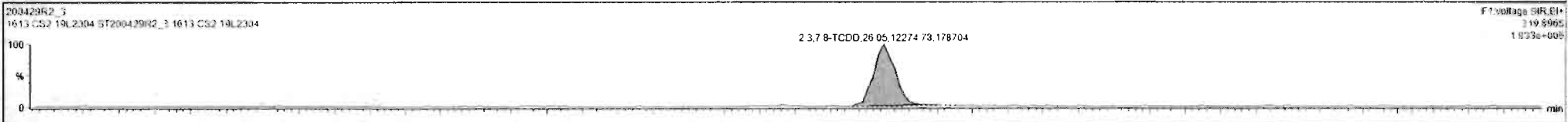


200429R2_3



200429R2_3 - ST200429R2_3 1613 CS2 19L2304 1613 CS2 19L2304

#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	2,3,7,8-TCDD	26.05	0.797	NO	2.7677e4	1.4302e6	2.900	2.1	5.35	0.947	0.0567
2	1,2,3,7,8-PeCDD	24.13	0.621	NO	9.9912e4	9.9250e5	10.000	6.8	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	24.49	1.246	NO	8.2429e4	7.5171e5	10.000	3.1	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	24.80	1.257	NO	9.4154e4	9.4942e5	10.000	8.4	6.53	0.515	0.0597
5	1,2,3,7,8,9-HxCDD	24.80	1.244	NO	8.1064e4	8.0356e5	10.000	6.3	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	26.36	1.081	NO	5.9094e4	6.3852e5	10.000	3.1	6.93	0.656	0.0632
7	OCDD	41.24	0.883	NO	1.0629e5	1.0963e6	20.000	5.8	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.737	NO	3.4210e4	2.8671e6	2.000	4.1	5.11	0.757	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.567	NO	1.5997e5	1.6425e6	10.000	7.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.595	NO	1.6102e5	1.6556e6	10.000	6.4	4.95	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.83	1.217	NO	9.5102e4	1.0175e6	10.000	6.4	7.59	0.878	0.0686
12	1,2,3,6,7,8-HxCDF	33.78	1.209	NO	1.0898e5	1.1386e6	10.000	9.5	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.217	NO	1.0168e5	1.0301e6	10.000	7.1	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.223	NO	7.7026e4	8.5676e5	10.000	4.9	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.95	0.958	NO	6.9491e4	7.6914e5	10.000	3.7	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	1.014	NO	4.9417e4	4.7128e5	10.000	3.5	6.62	1.01	0.0670
17	OCDF	41.52	0.877	NO	1.6707e5	1.2711e6	20.000	5.0	7.16	0.802	0.0575



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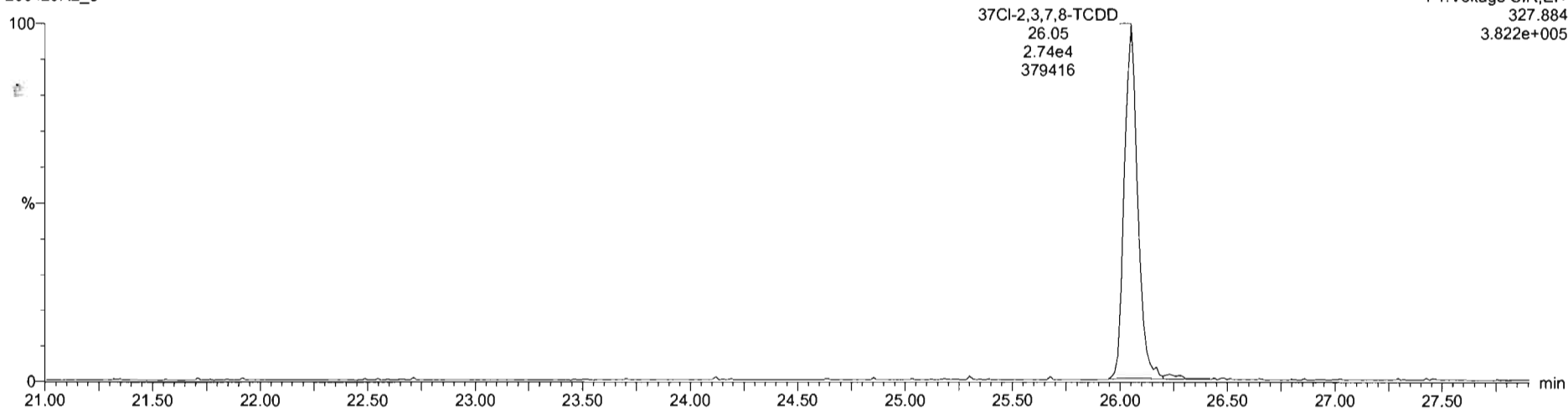
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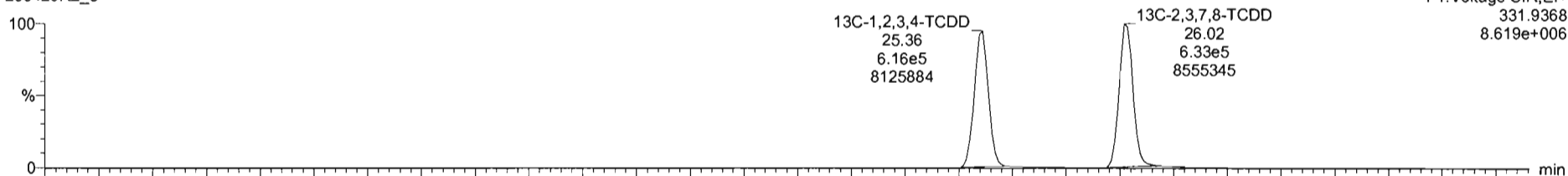
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200429R2_3

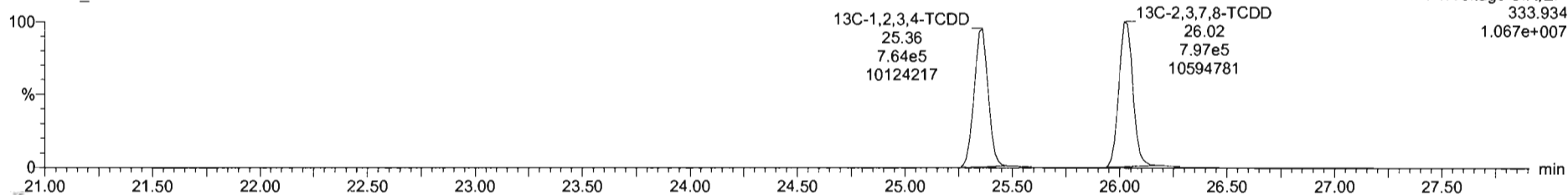


13C-1,2,3,4-TCDD

200429R2_3



200429R2_3



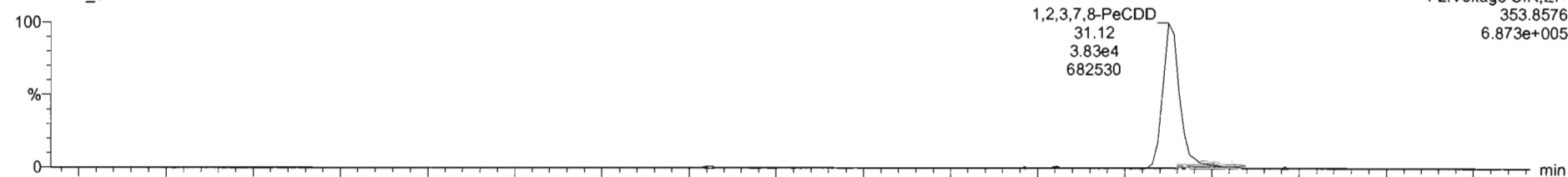
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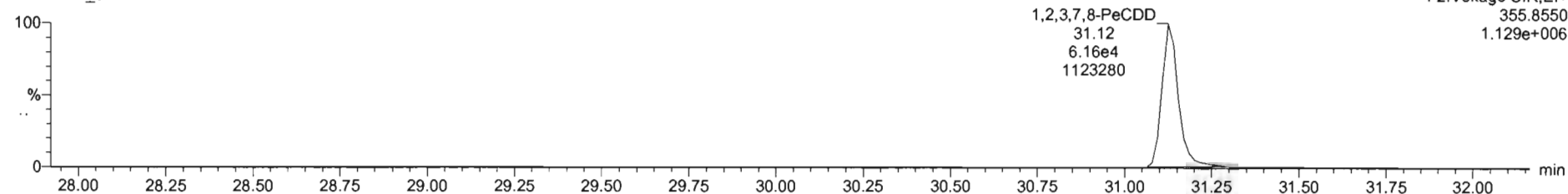
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1,2,3,7,8-PeCDD

200429R2_3

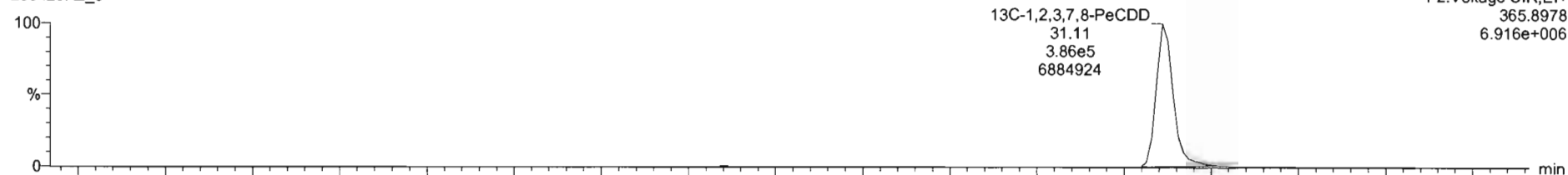


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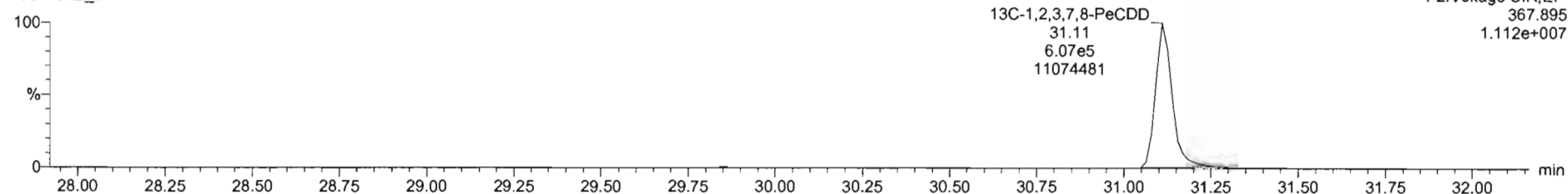


13C-1,2,3,7,8-PeCDD

200429R2_3



200429R2_3



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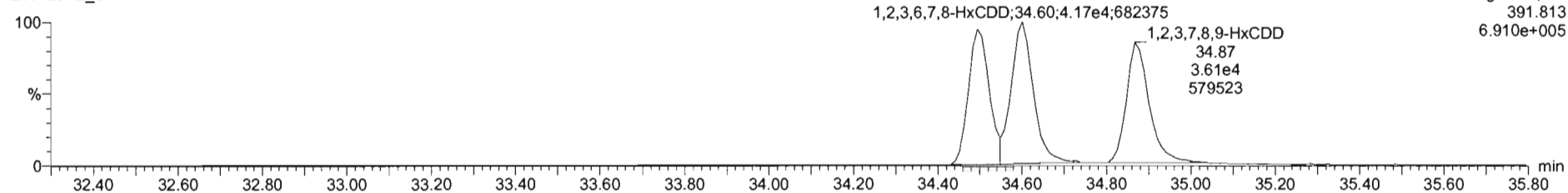
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1,2,3,4,7,8-HxCDD

200429R2_3

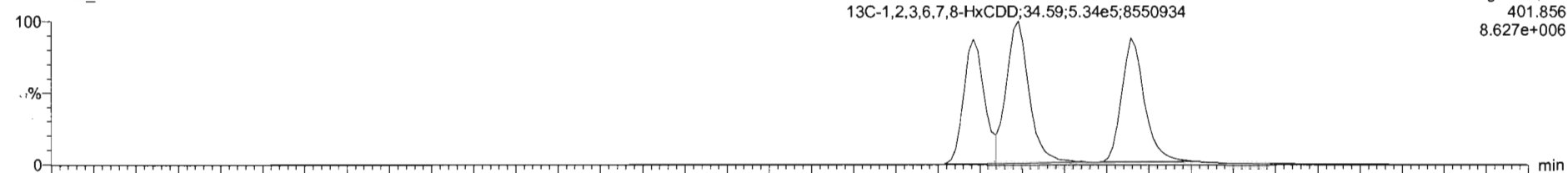


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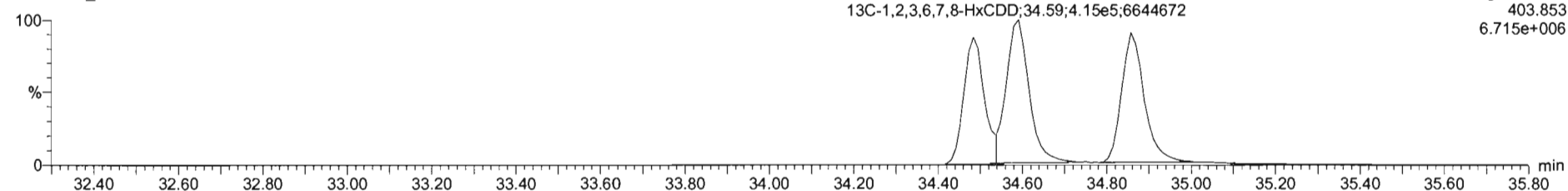


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200429R2_3



200429R2_3



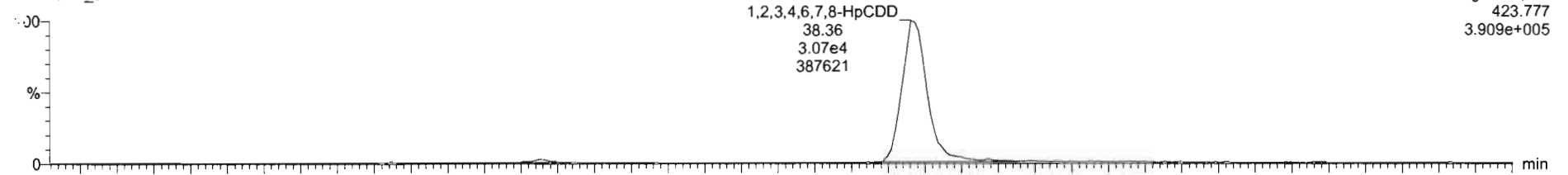
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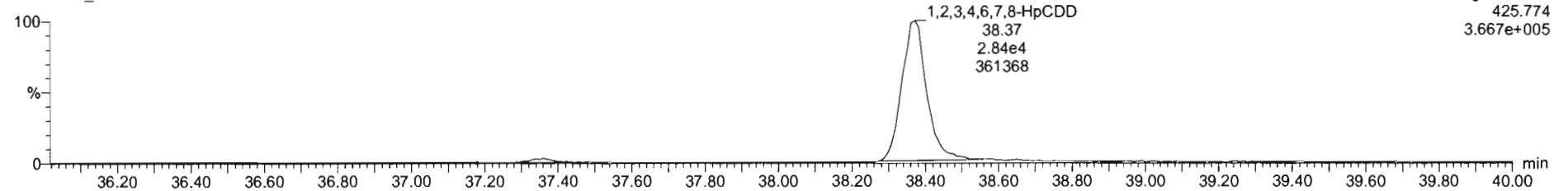
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1,2,3,4,6,7,8-HpCDD

200429R2_3

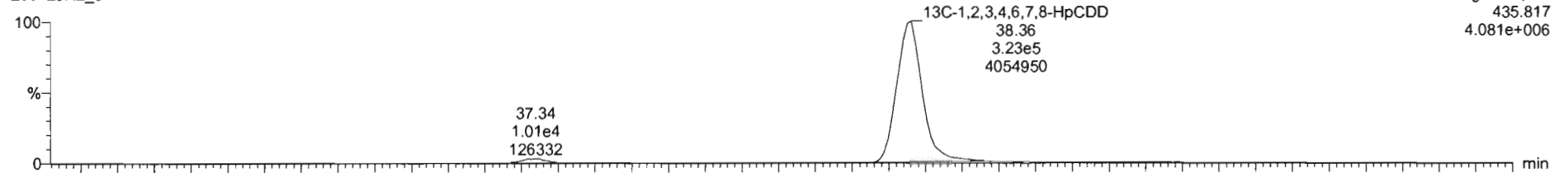


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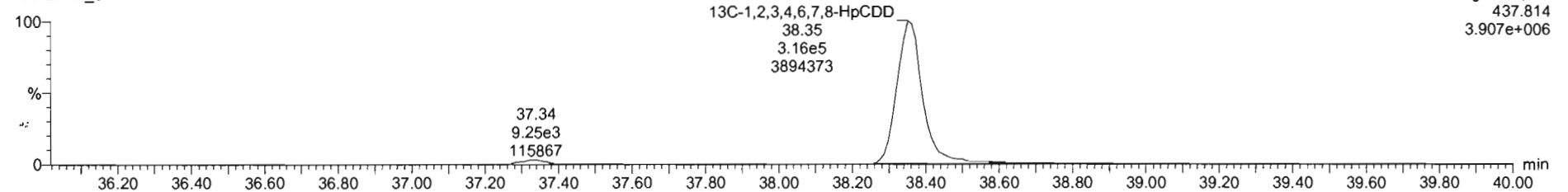


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200429R2_3



200429R2_3

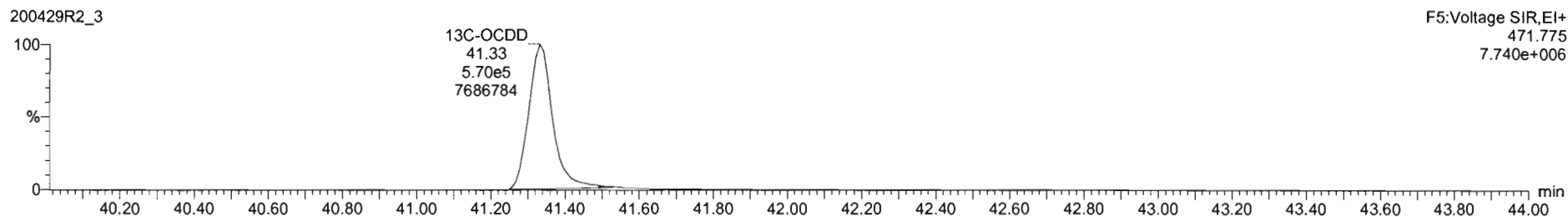
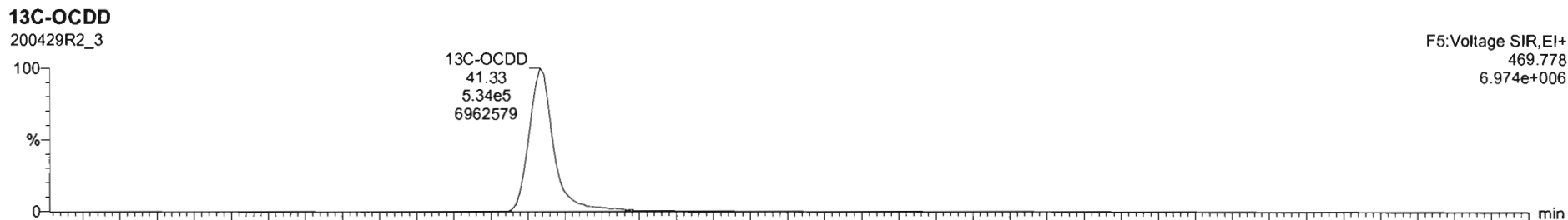
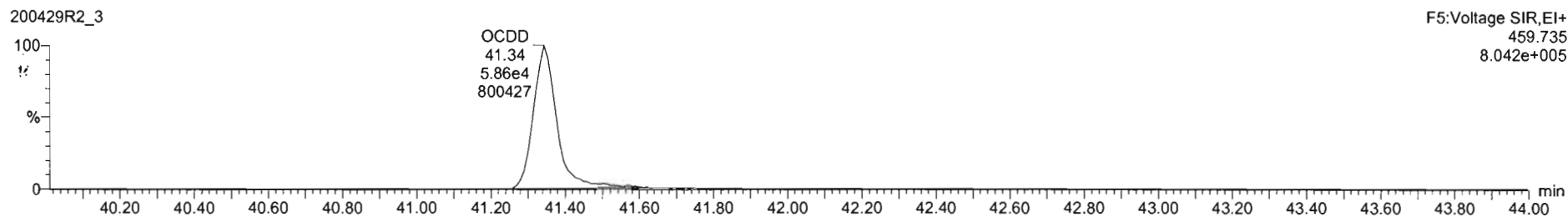
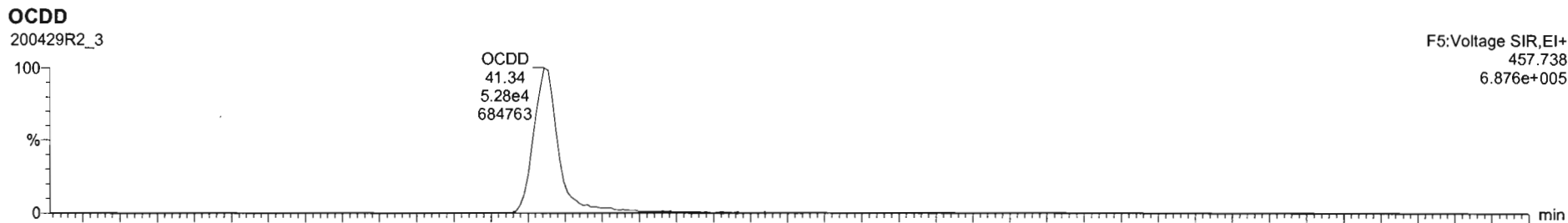


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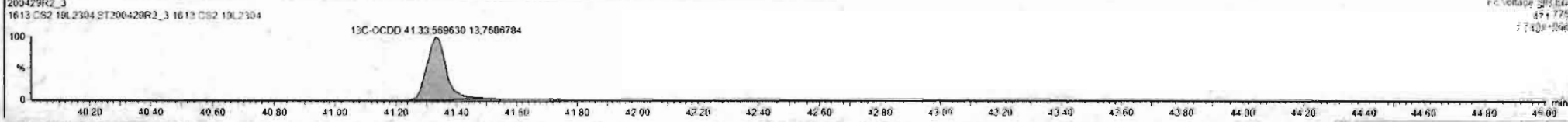
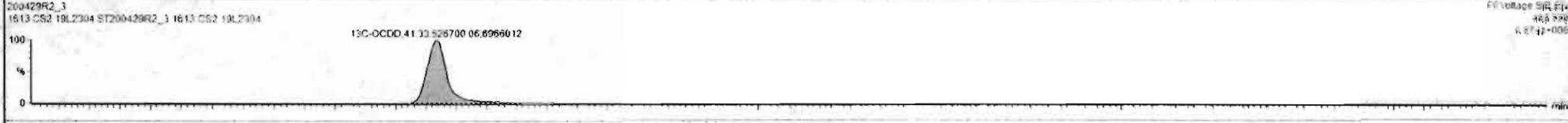
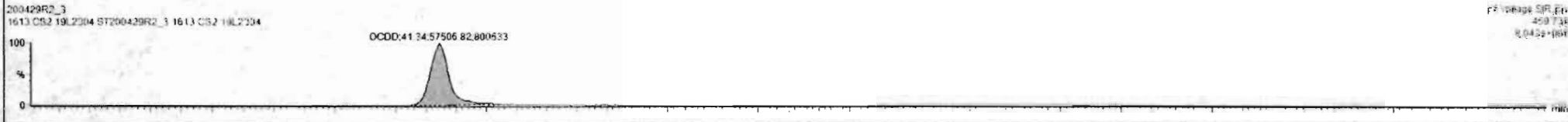
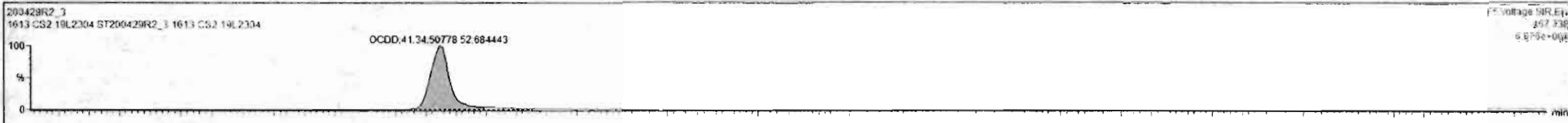
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1	2,3,7,8-TCDD	26.05	0.797	NO	2.7677e4	1.4302e6	2.000	2.1	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.621	NO	9.9912e4	9.9250e5	10.000	6.8	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.246	NO	3.2429e4	7.5171e5	10.000	3.1	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.80	1.257	NO	9.4154e4	9.4942e5	10.000	8.4	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.244	NO	8.1084e4	8.2359e5	10.000	6.3	7.64	0.915	0.0690
6	1,2,3,4,6,7,8-HpCDD	38.36	1.001	NO	5.9094e4	6.5852e5	10.000	3.1	6.93	0.856	0.0622
7	OCDD	41.34	0.863	NO	1.0629e5	1.0603e6	20.000	8.6	7.57	0.830	0.0767
8	2,3,7,8-TCDF	25.11	0.737	NO	3.4210e4	2.0671e6	2.000	4.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.067	NO	1.5997e5	1.6425e6	10.000	7.0	5.06	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.595	NO	1.6102e5	1.5656e6	10.000	6.4	4.98	0.906	0.0481
11	1,2,3,4,7,8-HxCDF	32.83	1.217	NO	9.1102e4	1.0175e6	10.000	6.4	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.200	NO	1.0896e5	1.1366e6	10.000	9.5	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.217	NO	1.0168e5	1.0201e6	10.000	7.1	7.69	0.922	0.0766
14	1,2,3,7,8,9-HxCDF	35.21	1.223	NO	7.7636e4	8.5276e5	10.000	4.9	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.90	0.950	NO	6.9491e4	7.6914e5	10.000	3.7	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	1.014	NO	4.8417e4	4.7188e5	10.000	3.5	6.62	1.01	0.0670
17	OCDF	41.52	0.877	NO	1.6707e5	1.2711e6	20.000	5.0	7.16	0.862	0.0575



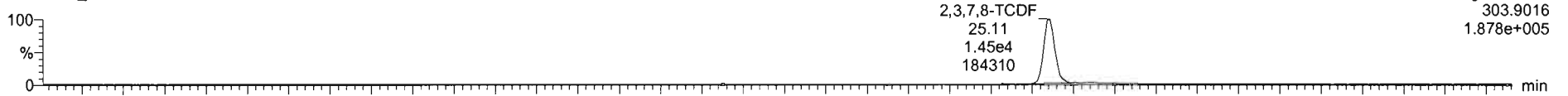
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

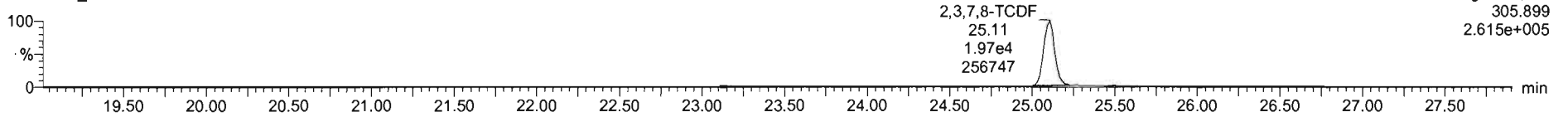
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2,3,7,8-TCDF

200429R2_3

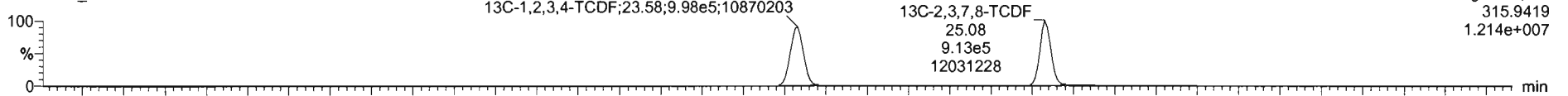


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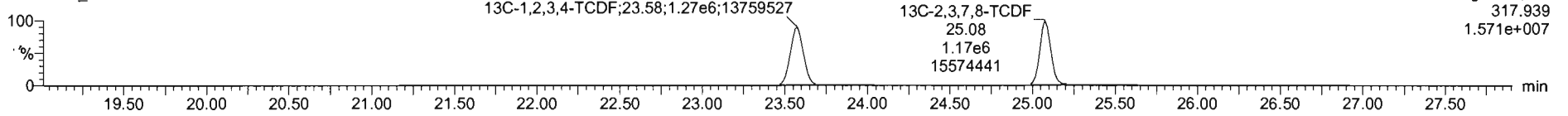


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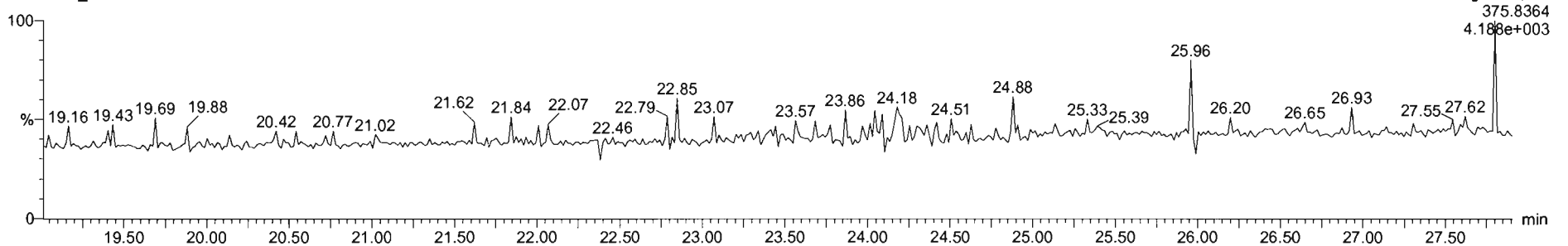


200429R2_3



DPE1

200429R2_3



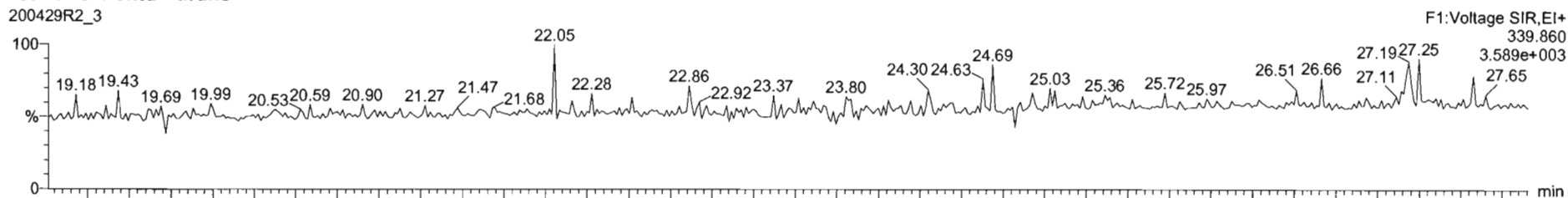
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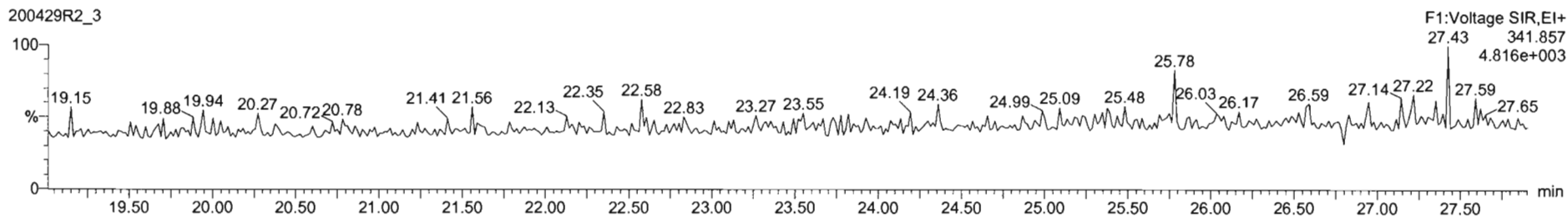
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200429R2_3

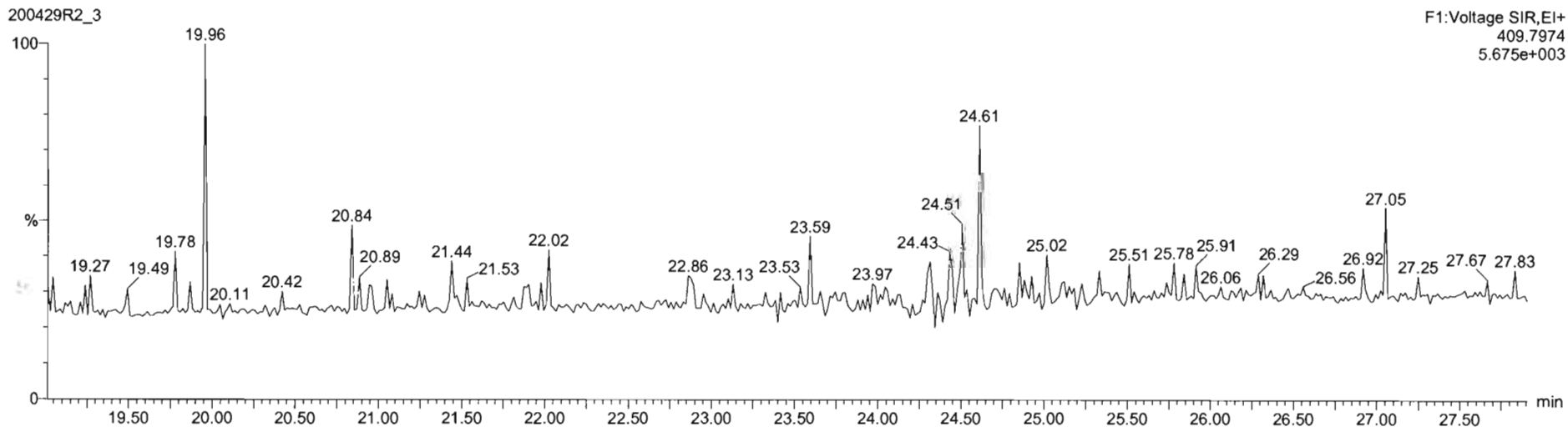


200429R2_3



DPE6

200429R2_3



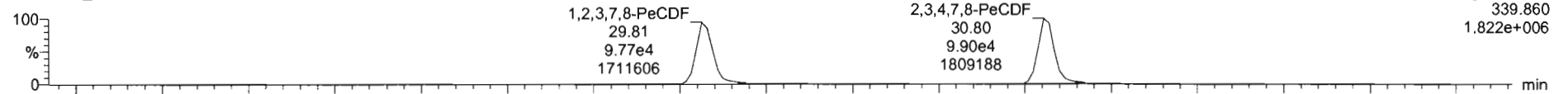
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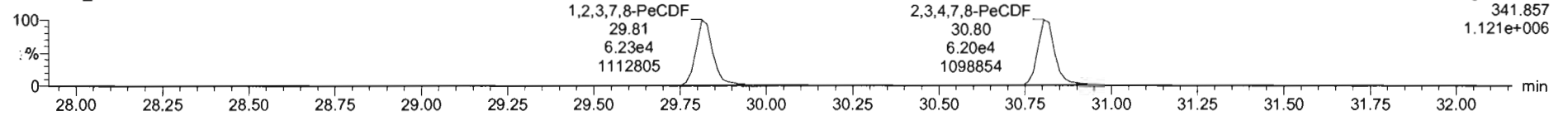
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1,2,3,7,8-PeCDF

200429R2_3



200429R2_3

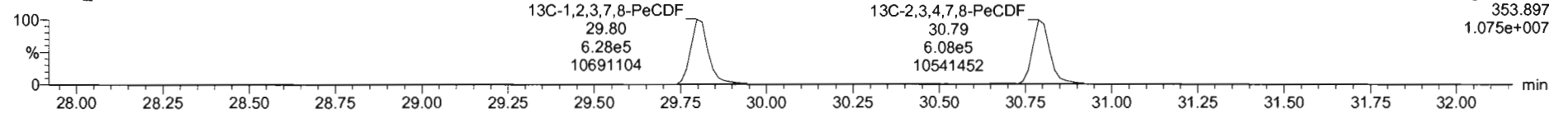


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200429R2_3

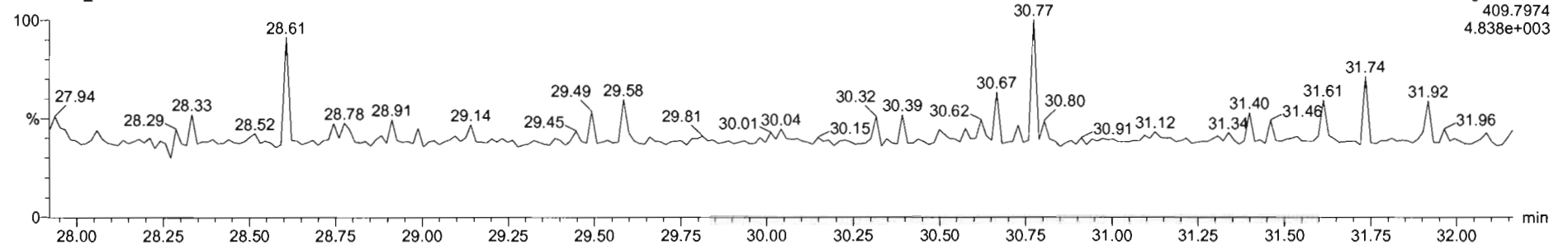


200429R2_3



DPE2

200429R2_3



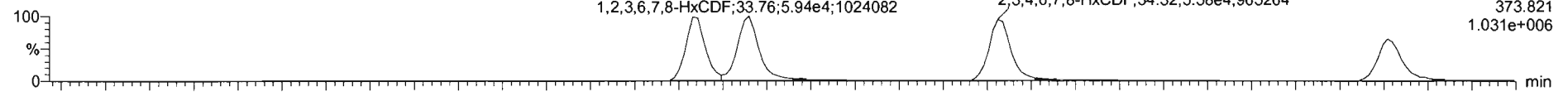
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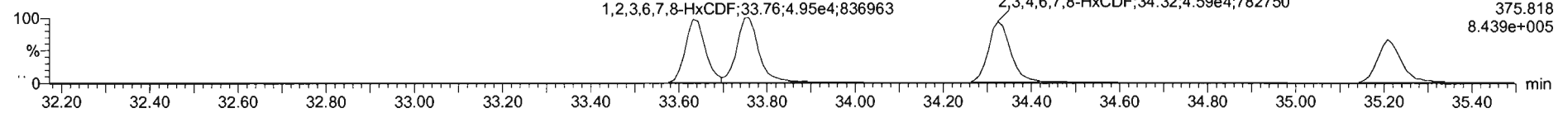
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1,2,3,4,7,8-HxCDF

200429R2_3

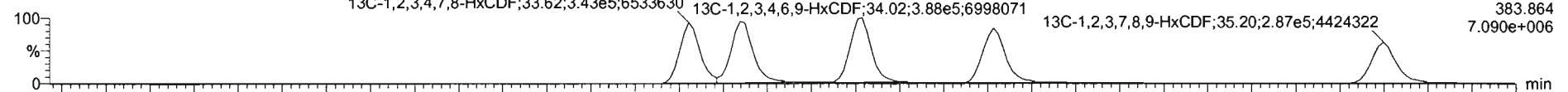


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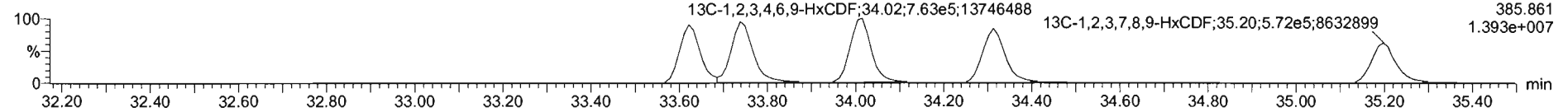


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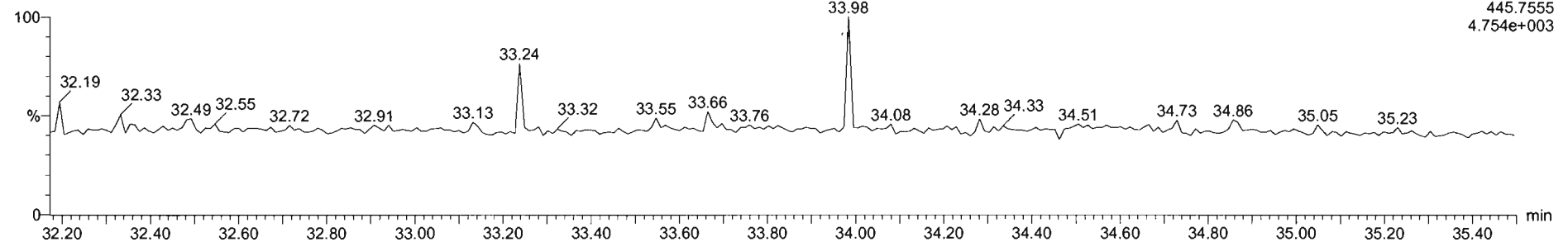


200429R2_3



DPE3

200429R2_3



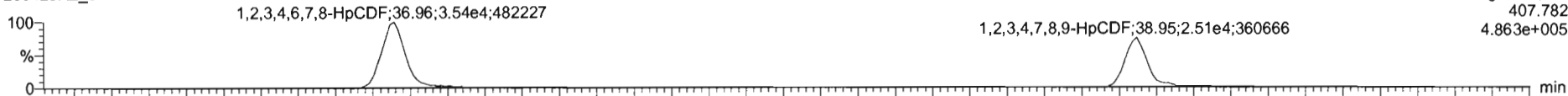
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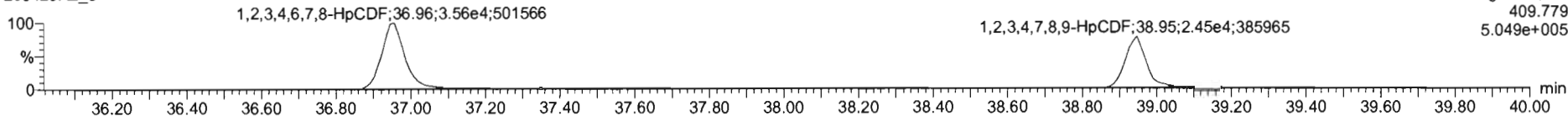
1,2,3,4,6,7,8-HpCDF

200429R2_3



F4:Voltage SIR,EI+
407.782
4.863e+005

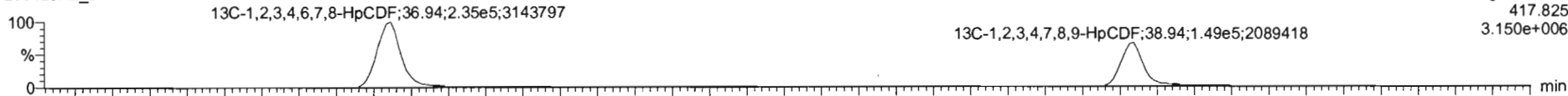
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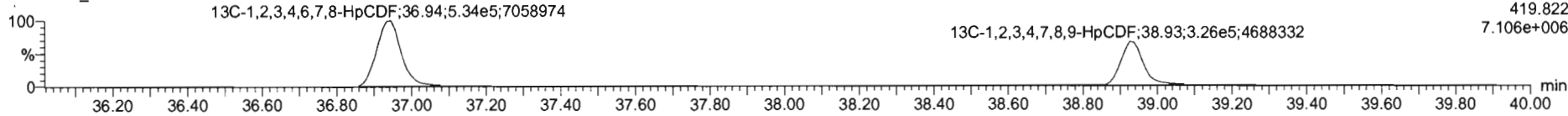
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200429R2_3



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3.150e+006

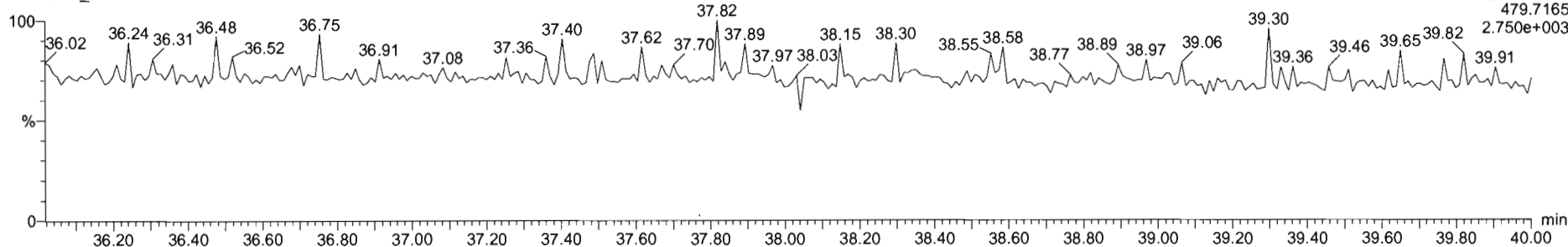
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F4:Voltage SIR,EI+
419.822
7.106e+006

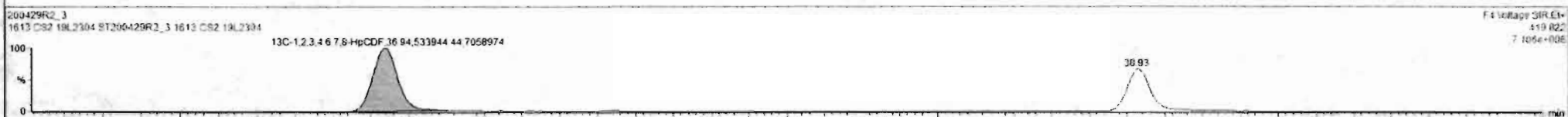
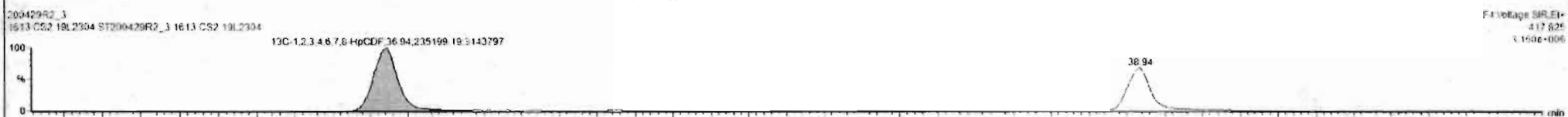
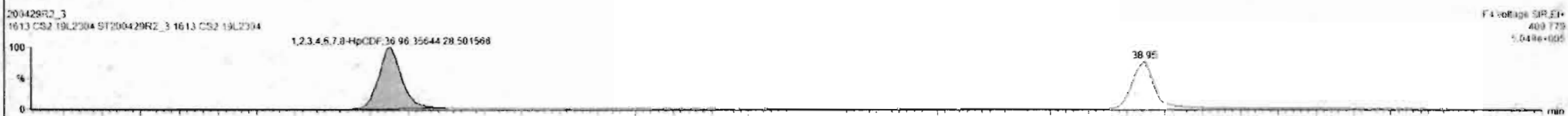
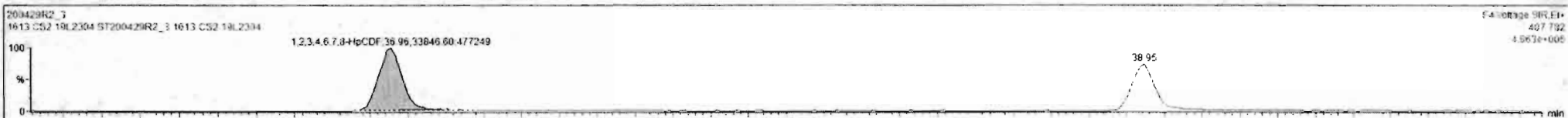
DPE4

200429R2_3



F4:Voltage SIR,EI+
479.7165
2.750e+003

#	1	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF N	RRF SD
1	1	1,2,3,7,8-TCDD	26.95	0.757	NO	2.7677e4	1.4302e6	2.000	2.1	5.35	0.947	0.0507
2	2	1,2,3,7,8-PeCDD	31.13	0.621	NO	9.9612e4	9.9250e5	10.000	6.8	5.51	0.942	0.0519
3	3	1,2,3,4,7,8-HxCDD	34.49	1.248	NO	3.2429e4	7.5171e5	10.000	3.1	6.62	1.06	0.0794
4	4	1,2,3,6,7,8-HxCDD	34.80	1.257	NO	9.4154e4	9.4942e5	10.000	8.4	6.53	0.915	0.0597
5	5	1,2,3,7,8,9-HxCDD	34.82	1.244	NO	8.1084e4	8.3359e5	10.000	6.3	7.64	0.915	0.0699
6	6	1,2,3,4,6,7,8-HpCDD	38.36	1.051	NO	5.9094e4	6.3652e5	10.000	3.1	6.93	0.856	0.0622
7	7	OCDD	41.34	0.853	NO	1.0629e5	1.0963e6	20.000	5.8	7.57	0.933	0.0707
8	8	1,2,3,7,8-TCDF	25.11	0.737	NO	3.4210e4	2.0671e6	2.000	4.1	5.11	0.767	0.0402
9	9	1,2,3,7,8-PeCDF	29.81	1.527	NO	1.5997e5	1.8425e6	10.000	7.0	5.86	0.910	0.0533
10	10	1,2,3,4,7,8-PeCDF	30.80	1.595	NO	1.6103e5	1.5556e6	10.000	6.4	4.98	0.966	0.0481
11	11	1,2,3,4,7,8-HxCDF	33.63	1.217	NO	9.5102e4	1.0175e6	10.000	6.4	7.59	0.878	0.0666
12	12	1,2,3,6,7,8-HxCDF	33.78	1.209	NO	1.0898e5	1.1386e6	10.000	9.5	7.23	0.874	0.0632
13	13	1,2,3,4,6,7,8-HxCDF	34.32	1.217	NO	1.0168e5	1.0301e6	10.000	7.1	7.69	0.922	0.0786
14	14	1,2,3,7,8,9-HxCDF	35.21	1.223	NO	7.7636e4	8.5276e5	10.000	4.9	5.96	0.864	0.0517
15	15	1,2,3,4,6,7,8-HpCDF	38.96	0.850	NO	6.9491e4	7.6914e5	10.000	3.7	7.54	0.871	0.0652
16	16	1,2,3,4,7,8,9-HpCDF	38.95	1.014	NO	4.3417e4	4.7188e5	10.000	3.5	6.62	1.01	0.0670
17	17	OCDF	41.52	0.877	NO	1.0707e5	1.2711e6	20.000	5.0	7.16	0.602	0.0575

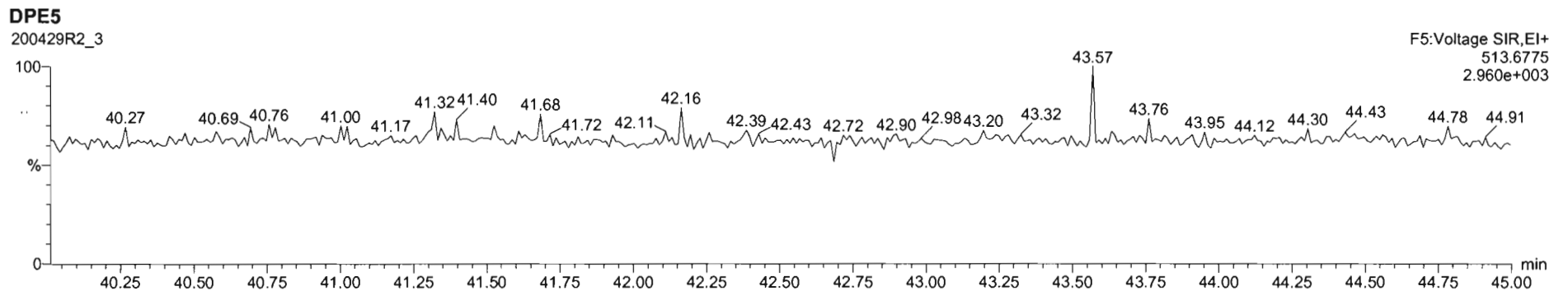
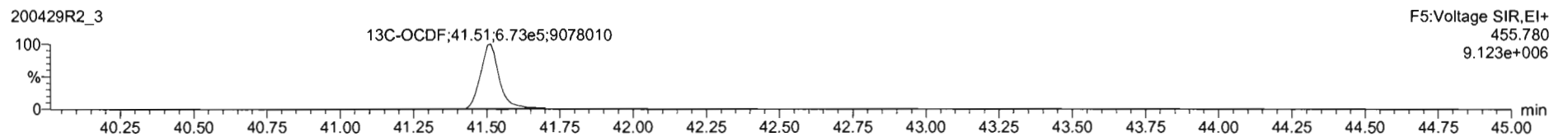
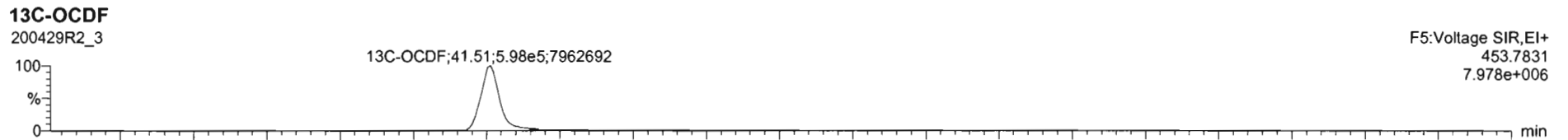
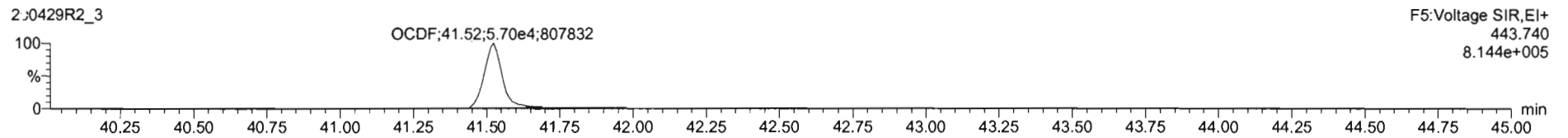
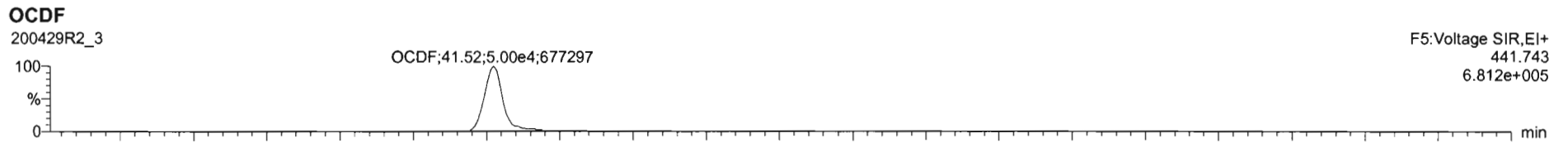


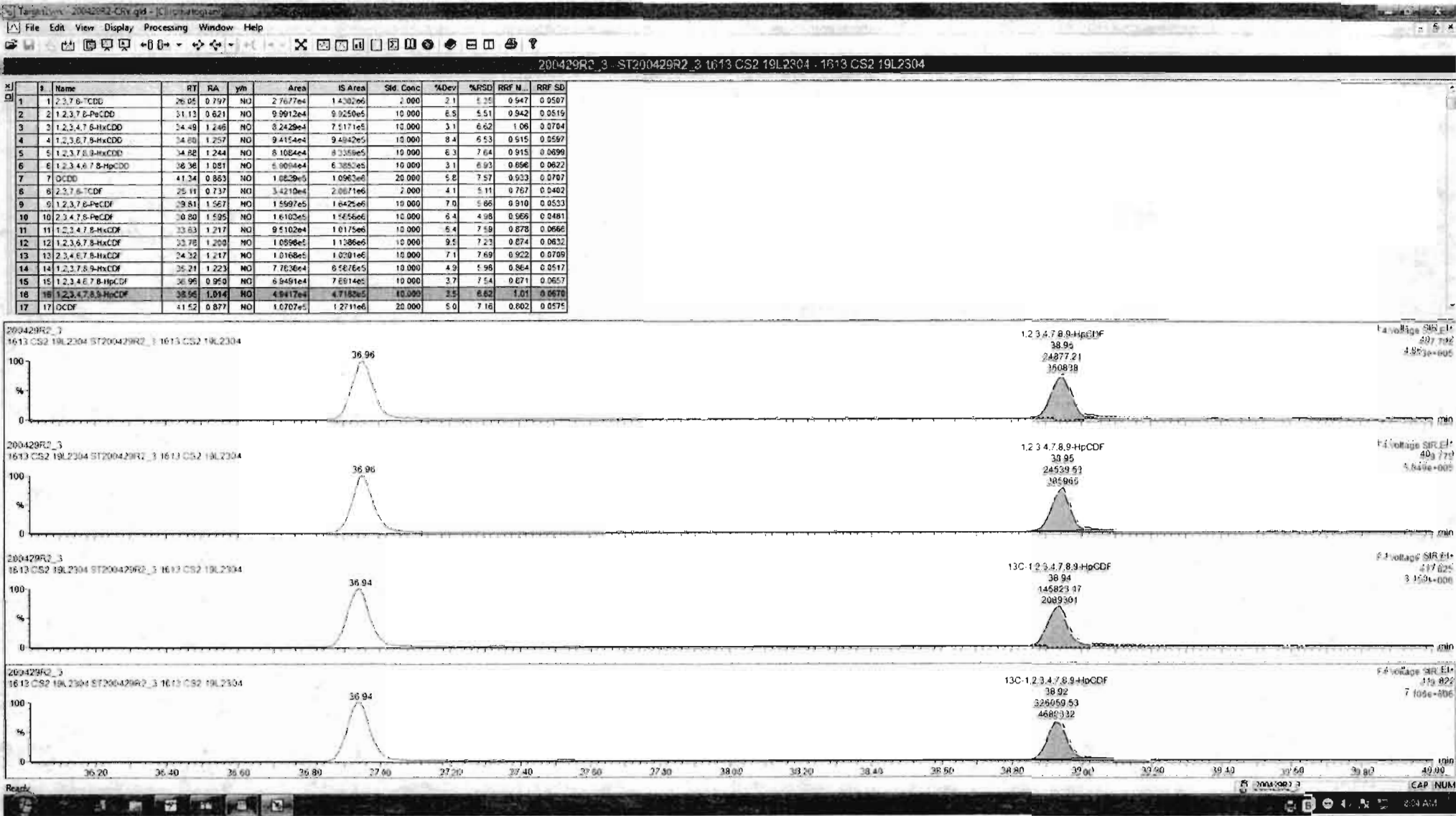
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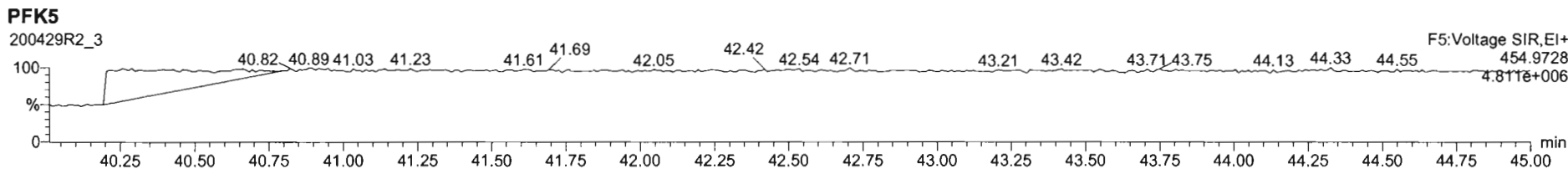
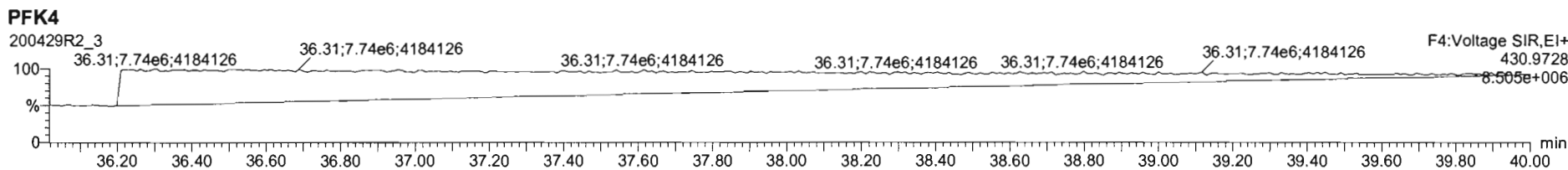
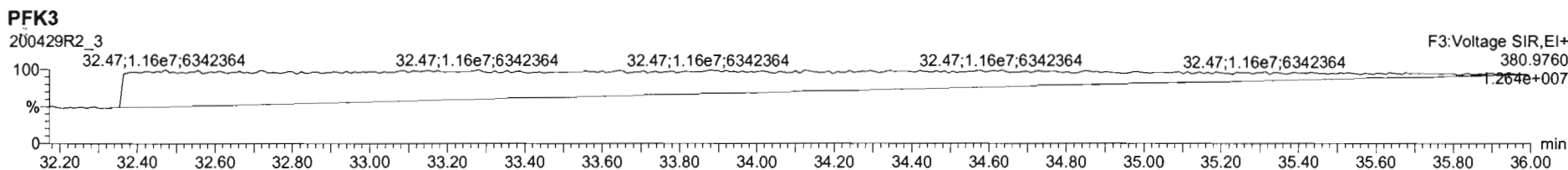
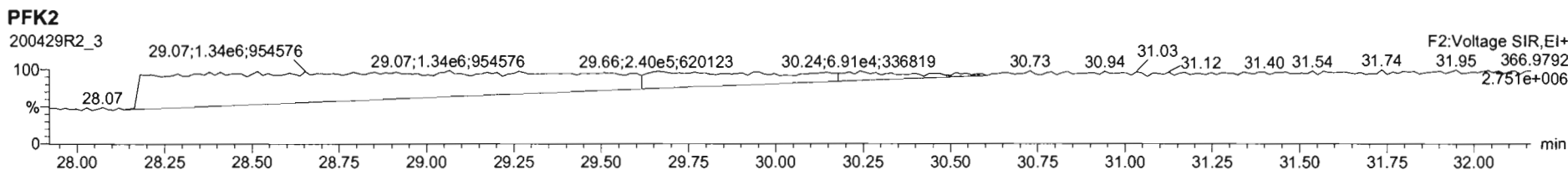
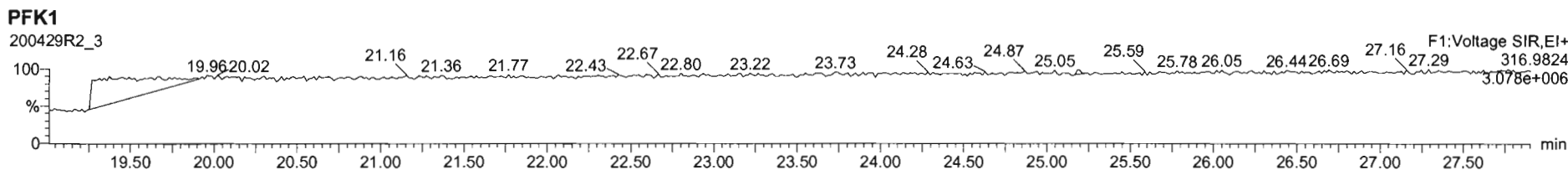




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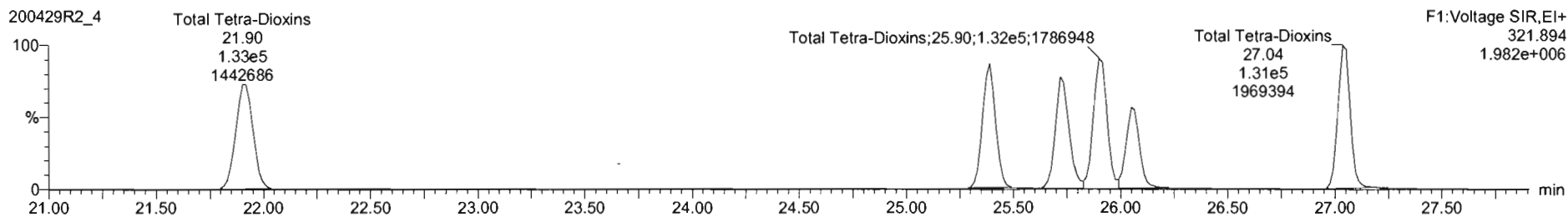
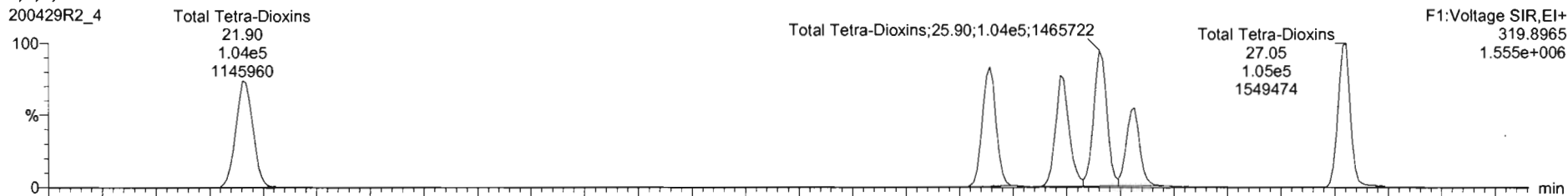


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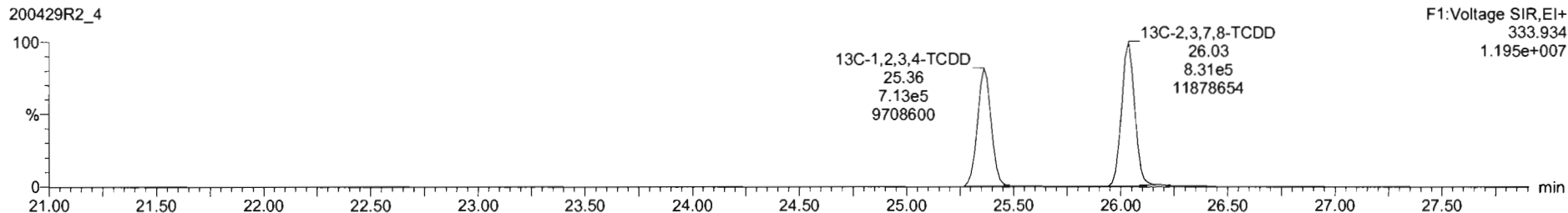
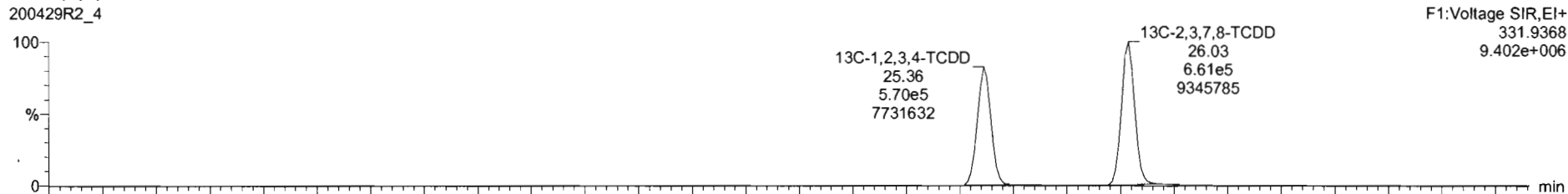
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2,3,7,8-TCDD



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



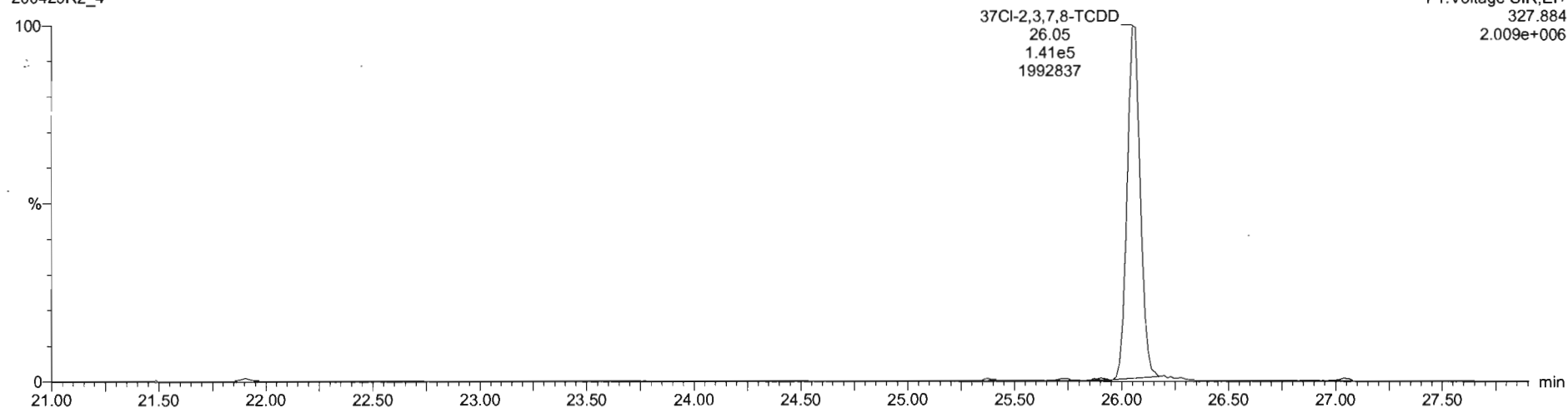
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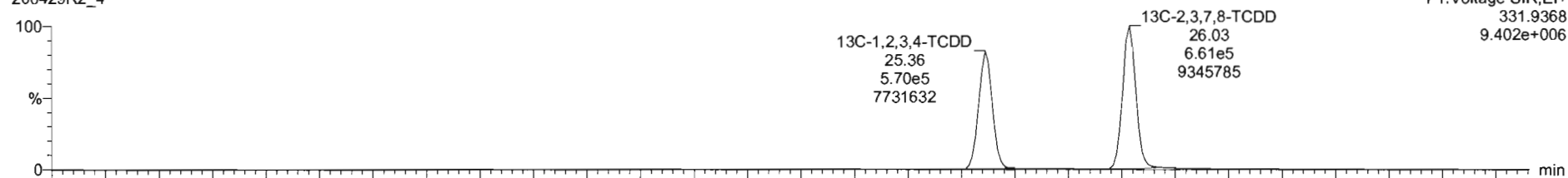
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200429R2_4

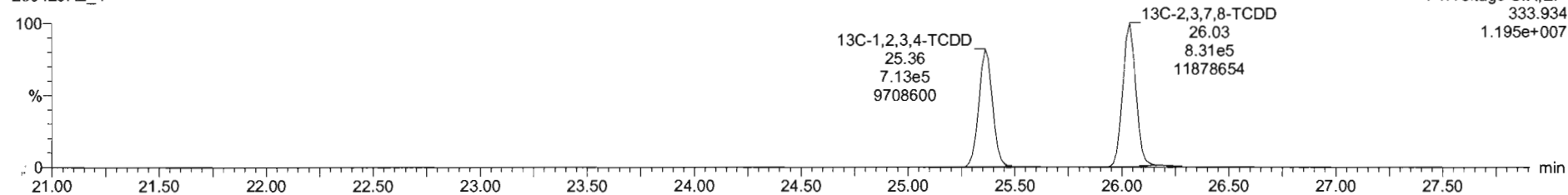


13C-1,2,3,4-TCDD

200429R2_4



200429R2_4



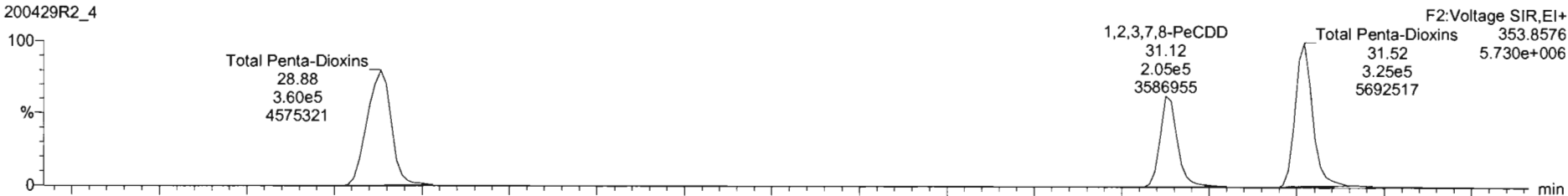
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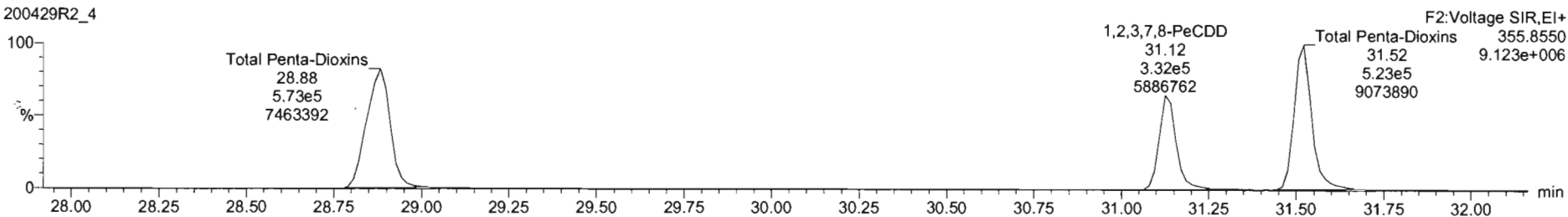
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1,2,3,7,8-PeCDD

200429R2_4

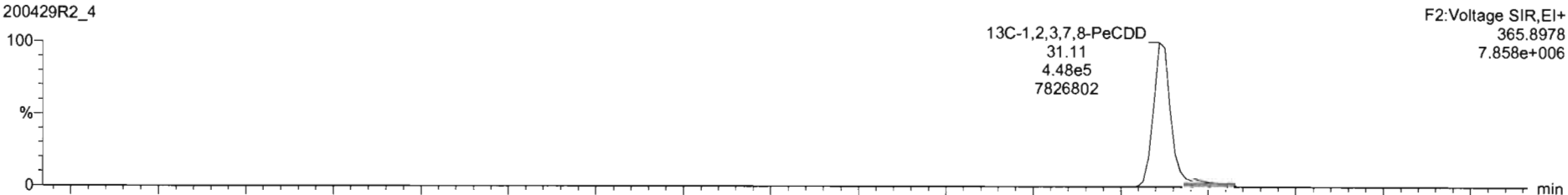


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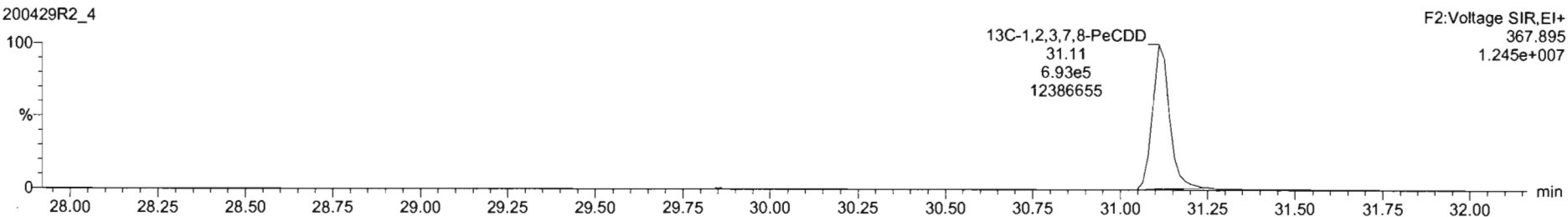


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200429R2_4



200429R2_4



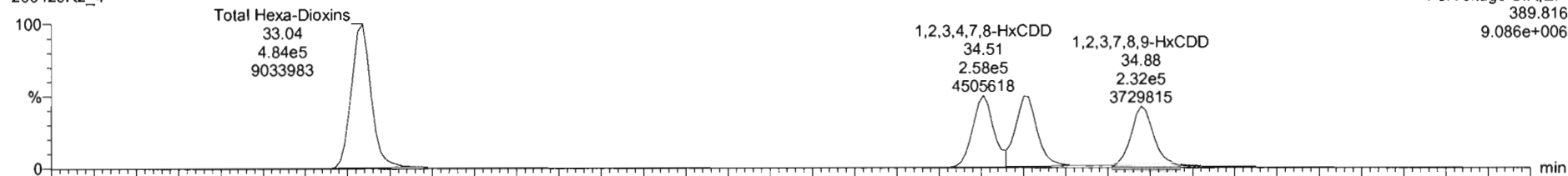
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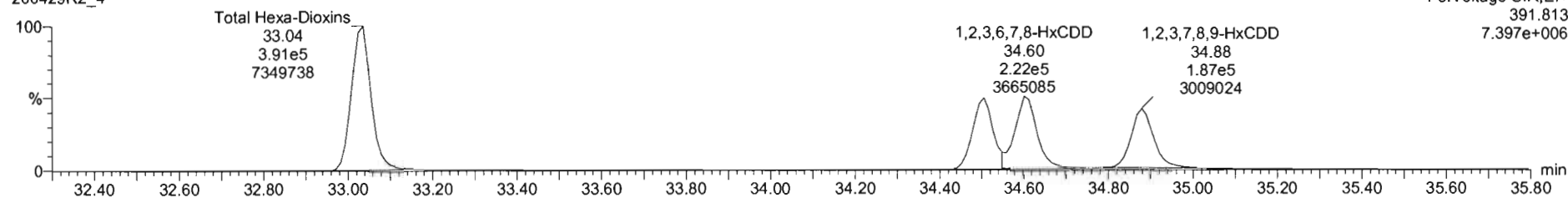
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1,2,3,4,7,8-HxCDD

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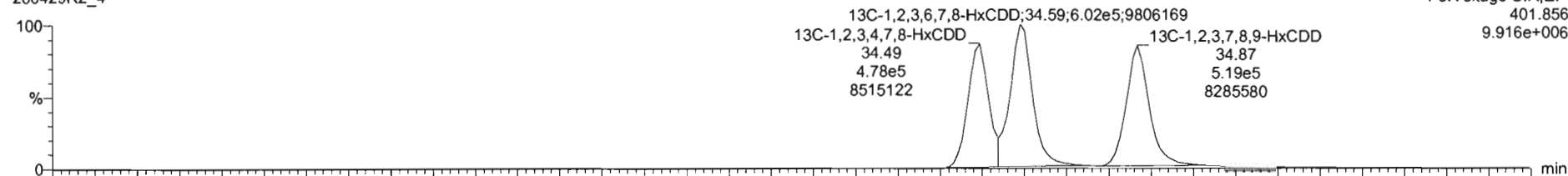


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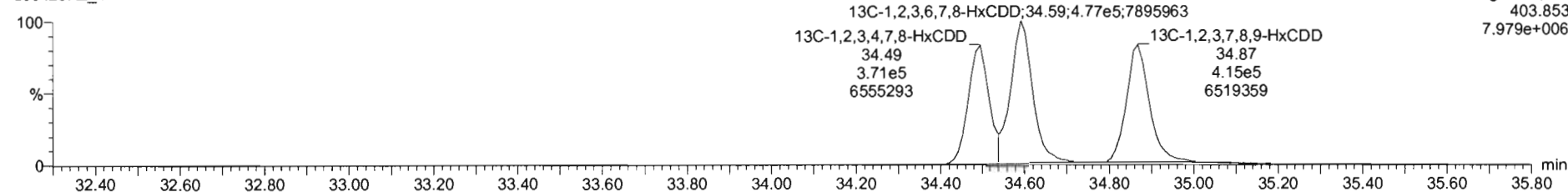


13C-1,2,3,4,7,8-HxCDD

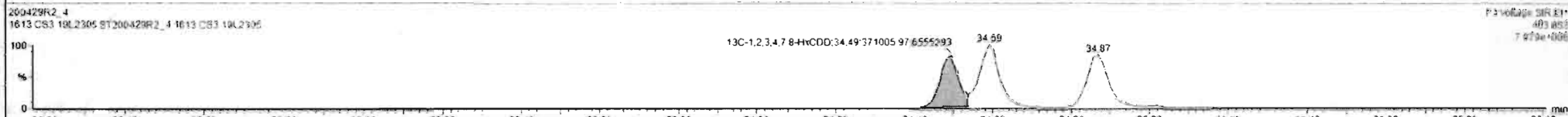
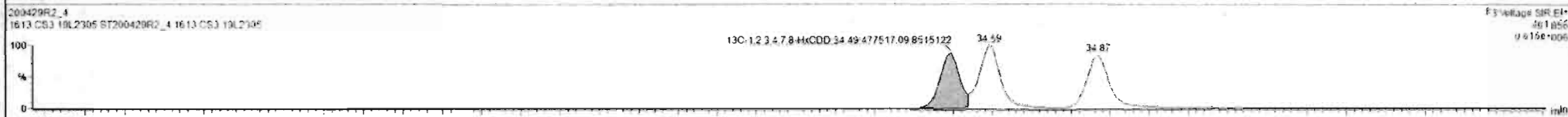
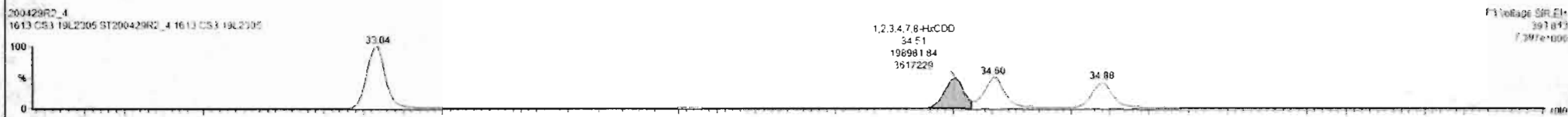
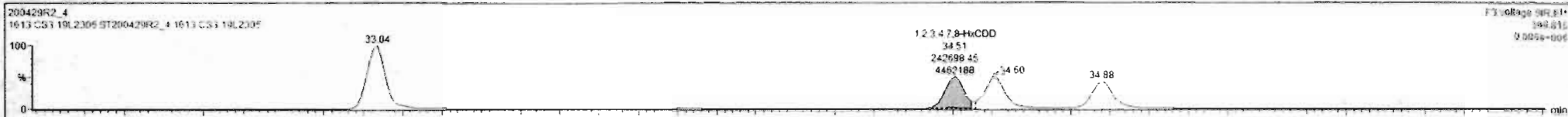
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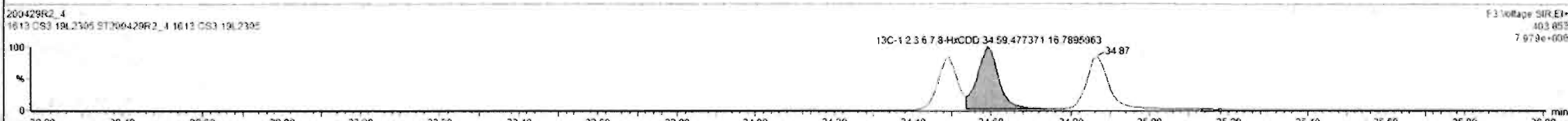
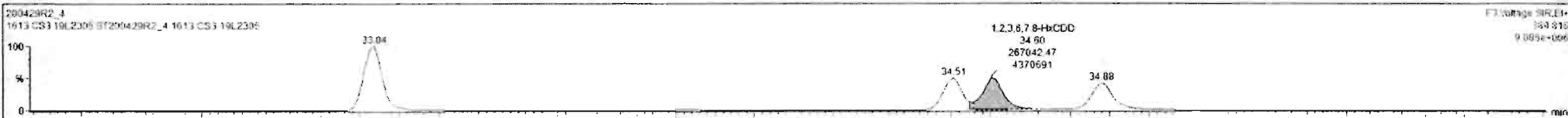
200429R2_4



#	s	Name	RT	RA	Yth	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e6	10.000	0.6	5.35	0.947	0.0407
2	2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.2679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	3	1,2,3,4,7,8-HxCDD	34.51	1.226	NO	4.4168e5	8.4852e5	50.000	-2.2	6.62	1.06	0.0764
4	4	1,2,3,6,7,8-HxCDD	34.82	1.202	NO	4.8827e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0493
5	5	1,2,3,7,8,9-HxCDD	34.82	1.239	NO	4.1946e5	9.2381e5	50.000	-1.8	7.64	0.915	0.0699
6	6	1,2,3,4,6,7,8-HpCDD	38.38	0.988	NO	3.0789e5	6.7896e5	50.000	1.0	6.93	0.696	0.0622
7	7	OCDD	41.35	0.879	NO	5.6237e5	1.1777e6	100.000	2.5	7.57	0.939	0.0763
8	8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0462
9	9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4585e5	1.6862e6	50.000	0.0	5.86	0.910	0.0533
10	10	1,2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.96	0.666	0.0481
11	11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0668
12	12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5766e5	1.2611e6	50.000	1.2	7.23	0.874	0.0633
13	13	2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1399e6	50.000	3.2	7.68	0.902	0.0765
14	14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.98	0.864	0.0517
15	15	1,2,3,4,6,7,8-HpCDF	36.97	0.952	NO	3.7224e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0657
16	16	1,2,3,4,7,8,9-HxCDF	38.96	0.998	NO	2.5972e5	5.1182e5	50.000	0.3	6.62	1.01	0.0679
17	17	OCDF	41.53	0.862	NO	5.3038e5	1.3196e6	100.000	1.3	7.16	0.863	0.0575



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e6	10.000	0.6	5.25	0.947	0.0567
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	3.4852e5	50.000	-2.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8027e5	1.0736e6	50.000	-0.9	6.53	0.915	0.0567
5	1,2,3,7,8,9-HxCDD	34.98	1.239	NO	4.1946e5	9.2381e5	50.000	-1.5	7.64	0.915	0.0659
6	1,2,3,4,6,7,8-HpCDD	38.36	0.908	NO	3.0769e5	6.7896e5	50.000	1.0	6.93	0.856	0.0622
7	OCDD	41.25	0.879	NO	5.6237e5	1.1777e6	100.000	2.3	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1451e6	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	3.4585e5	1.6620e6	50.000	0.0	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.9179e6	50.000	-0.4	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0668
12	1,2,3,6,7,8-HxCDF	33.75	1.173	NO	5.5786e5	1.2611e6	50.000	1.2	7.23	0.674	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1399e6	50.000	3.2	7.69	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2624e5	50.000	0.2	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7224e5	6.6485e5	50.000	-1.2	7.54	0.871	0.0667
16	1,2,3,4,7,8,9-HpCDF	38.96	0.998	NO	2.5973e5	5.1163e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.3639e5	1.3198e6	100.000	1.3	7.16	0.602	0.0575



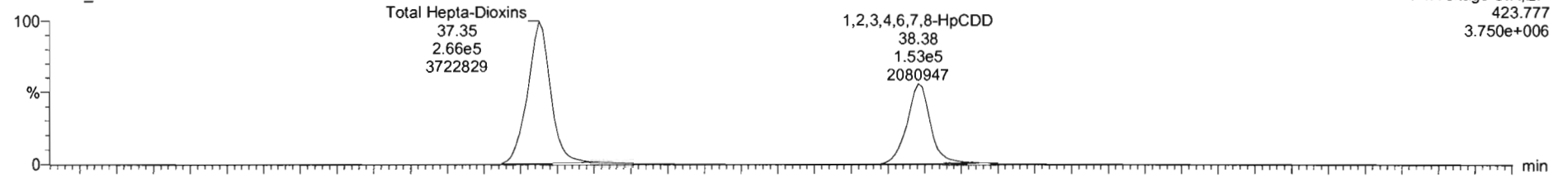
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

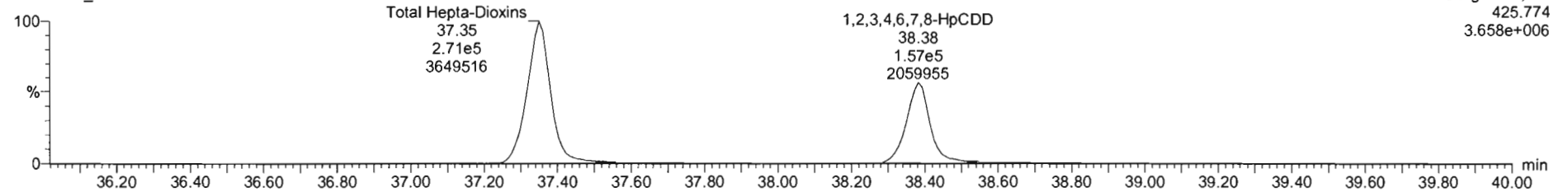
Name: 200429R2_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200429R2_4

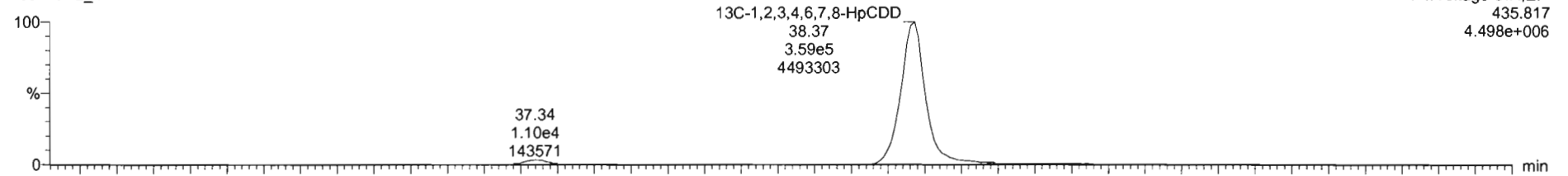


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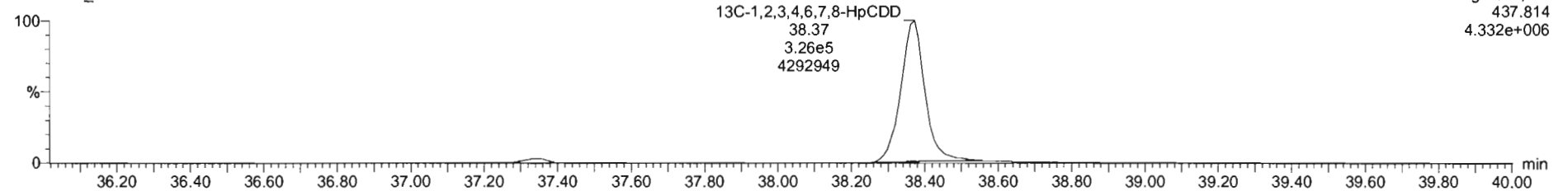


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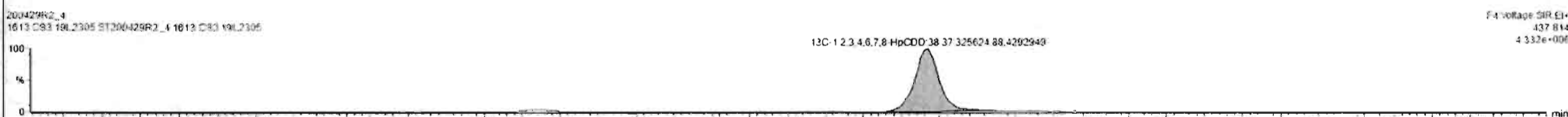
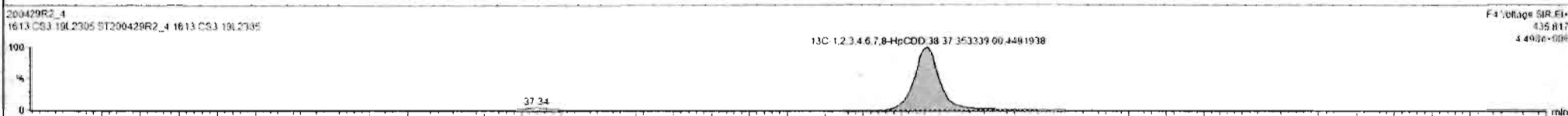
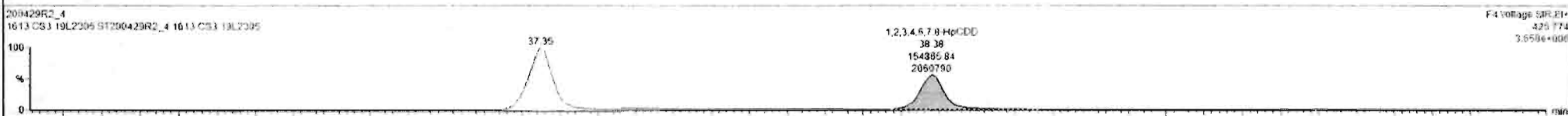
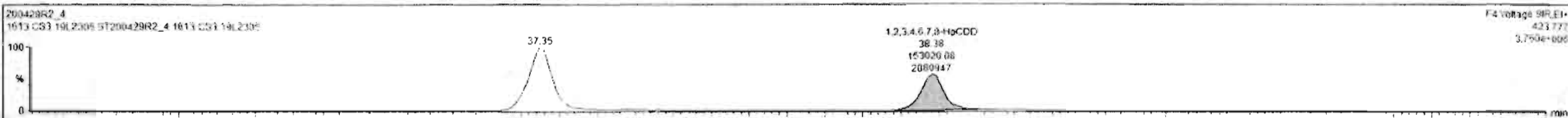
200429R2_4



200429R2_4



#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,6-TCDD	26.07	0.761	NO	1.4250e5	1.4920e6	10.000	0.6	5.25	0.947	0.0507
2	1,2,3,7,8-PeCDD	21.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	24.51	1.229	NO	4.4168e5	8.4852e5	50.000	2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	24.00	1.202	NO	4.8927e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0592
5	1,2,3,7,8,9-HxCDD	34.98	1.219	NO	4.1946e5	9.3381e5	50.000	-1.8	7.64	0.915	0.0599
6	1,2,3,4,6,7,8-HpCDD	38.36	0.968	NO	3.0769e5	6.7096e5	50.000	1.0	6.93	0.898	0.0622
7	OCDD	41.35	0.879	NO	5.6337e5	1.1777e6	100.000	2.5	7.57	0.923	0.0707
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4585e5	1.8662e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	29.00	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0566
12	1,2,3,6,7,8-HxCDF	33.76	1.173	NO	5.5786e5	1.2611e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	24.33	1.170	NO	5.4197e5	1.1399e6	50.000	3.2	7.69	0.922	0.0765
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2634e5	50.000	0.2	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7224e5	8.6486e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	28.06	0.998	NO	2.6973e5	5.1185e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.3639e5	1.3196e6	100.000	1.3	7.16	0.802	0.0575



Custom Reporting: Select reports to generate

200429R2_4

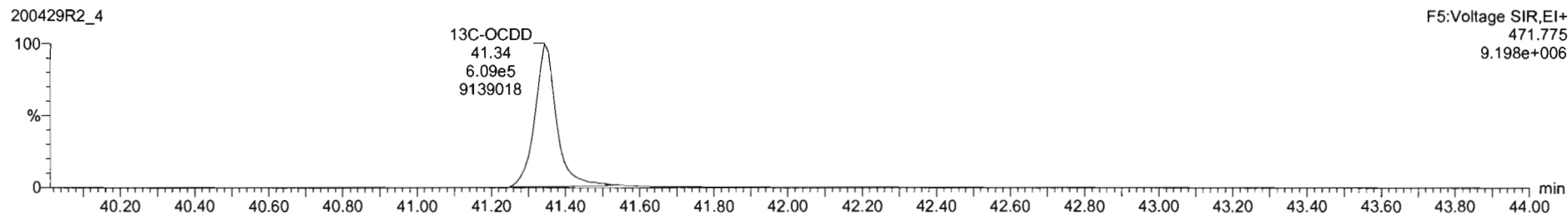
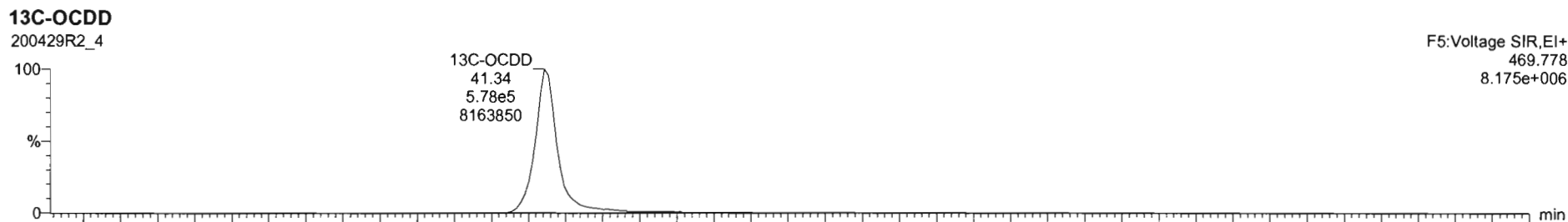
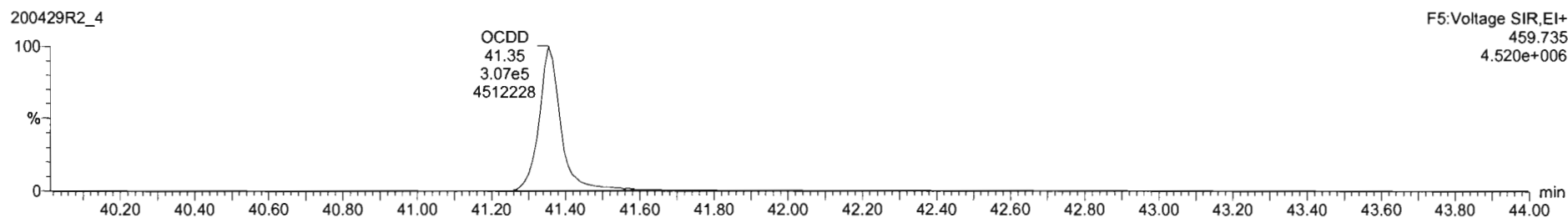
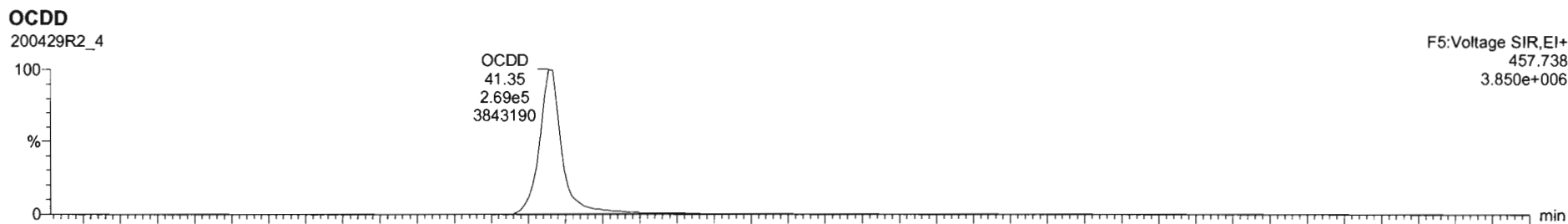
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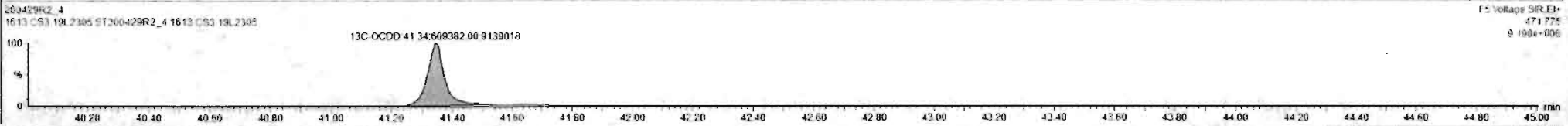
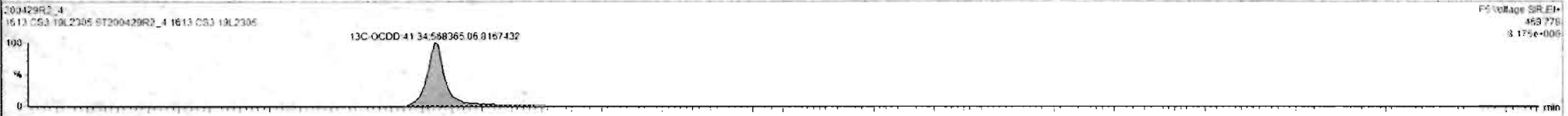
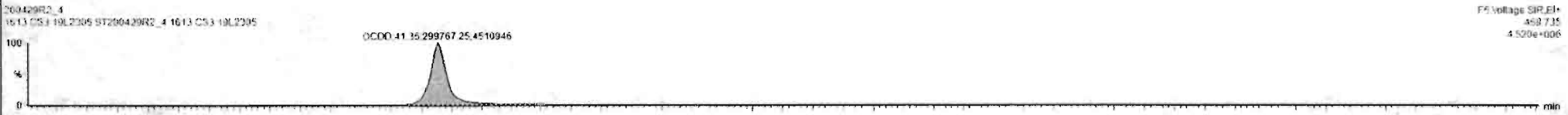
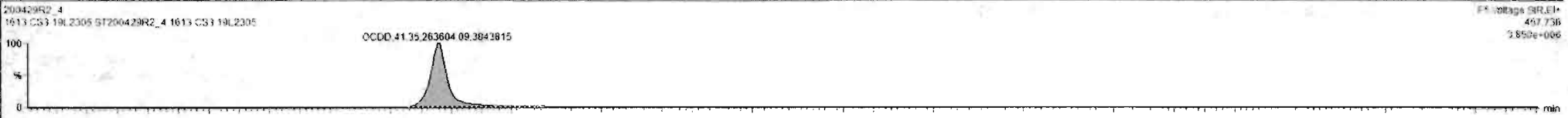
Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	2,3,7,8-TCDD	26.07	0.751	NO	1.4250e5	1.4920e5	10.000	0.8	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	3.4852e5	50.000	-2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.202	NO	4.8927e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.239	NO	4.1546e5	9.3381e5	50.000	-1.8	7.64	0.915	0.0659
6	1,2,3,4,6,7,8-HpCDD	36.36	0.908	NO	3.0769e5	6.7896e5	50.000	1.0	6.93	0.656	0.0622
7	OCDD	41.35	0.879	NO	5.8337e5	1.1777e6	100.000	2.5	7.57	0.833	0.0261
8	2,2,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.757	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	3.4585e5	1.8722e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.96	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.173	NO	5.5706e5	1.2811e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1299e6	50.000	3.2	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.952	NO	3.7224e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	0.998	NO	2.5973e5	5.1183e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.3639e5	1.3196e6	100.000	1.3	7.16	0.802	0.0575



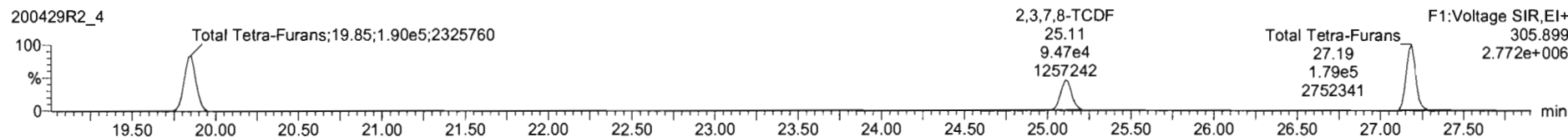
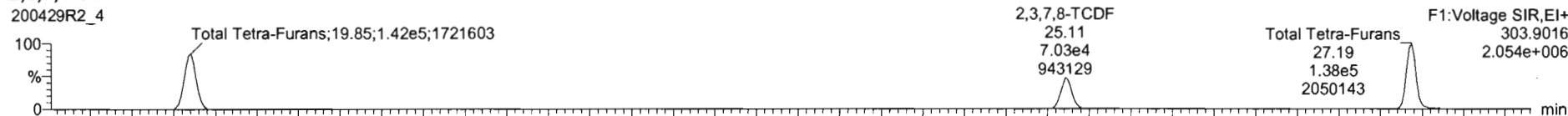
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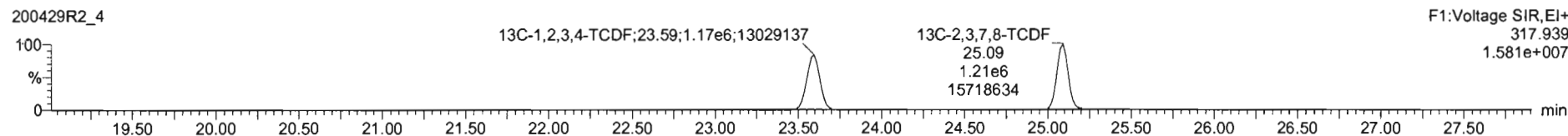
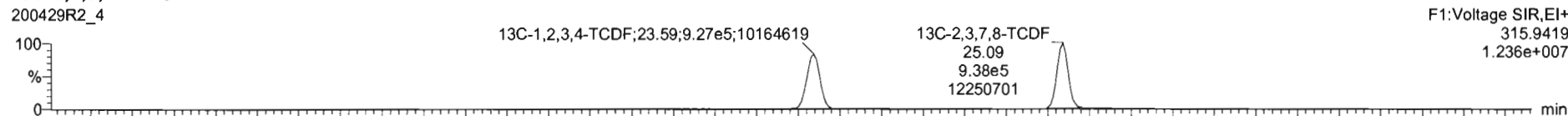
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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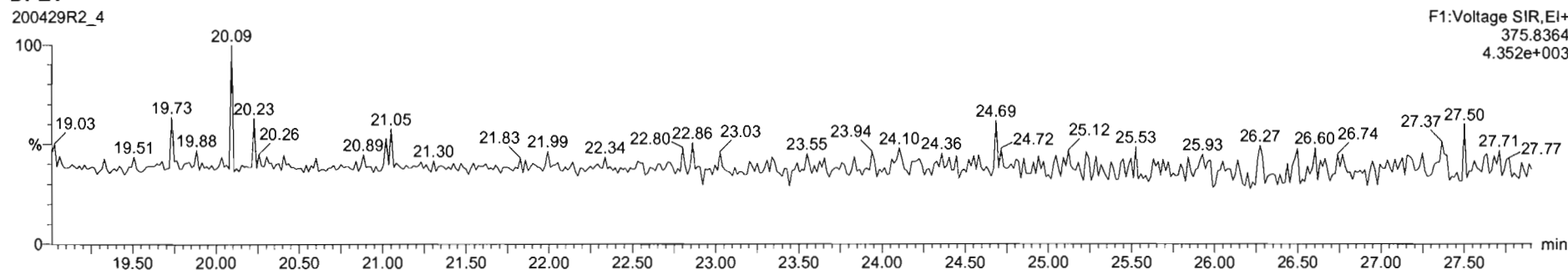
2,3,7,8-TCDF



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



DPE1



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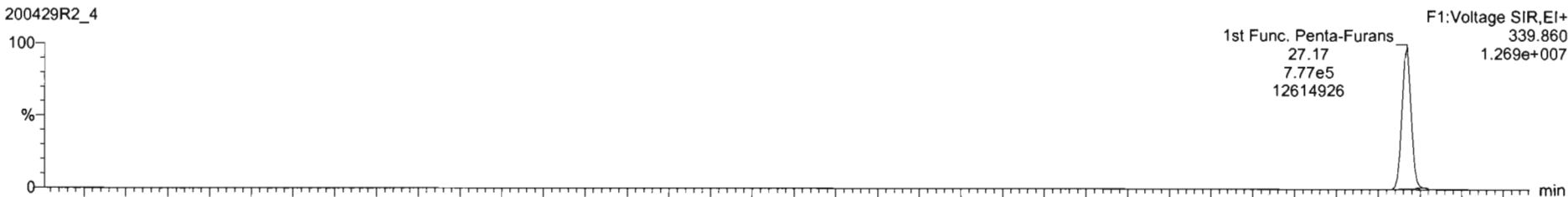
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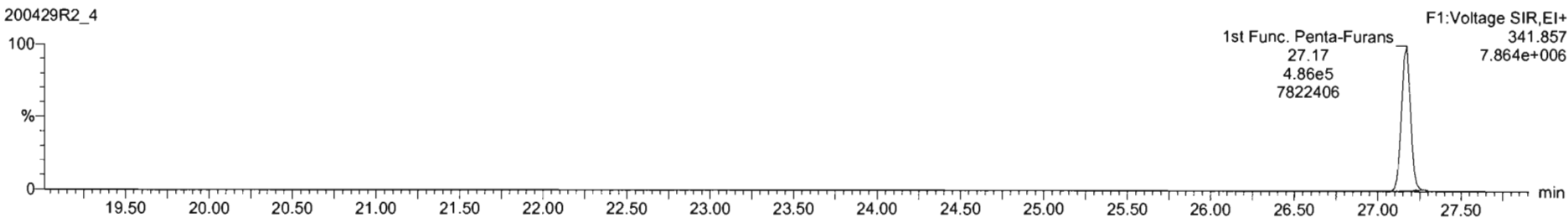
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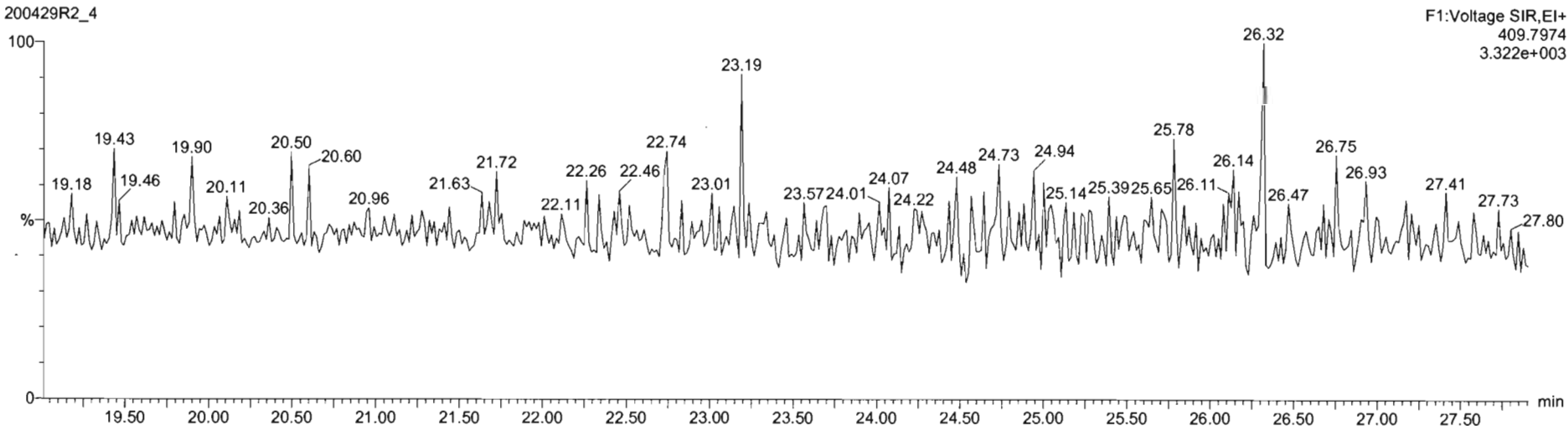


200429R2_4



DPE6

200429R2_4



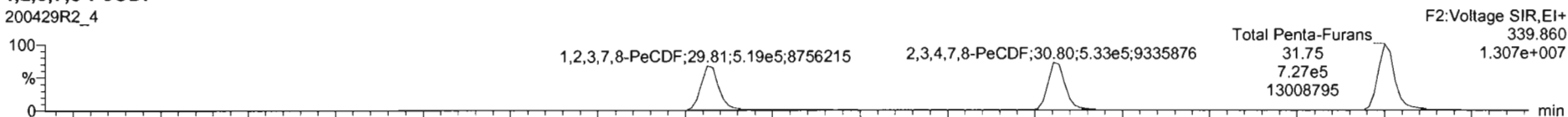
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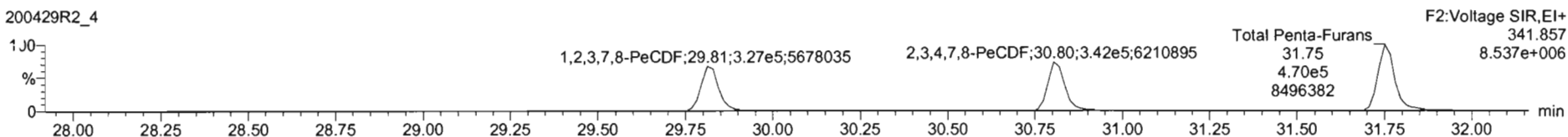
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1,2,3,7,8-PeCDF

200429R2_4

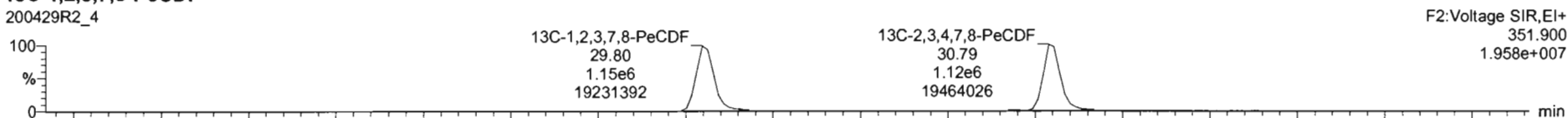


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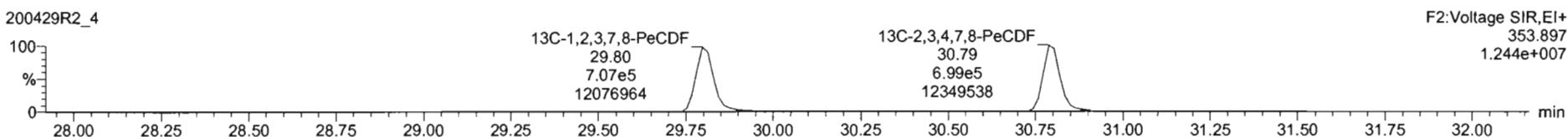


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200429R2_4

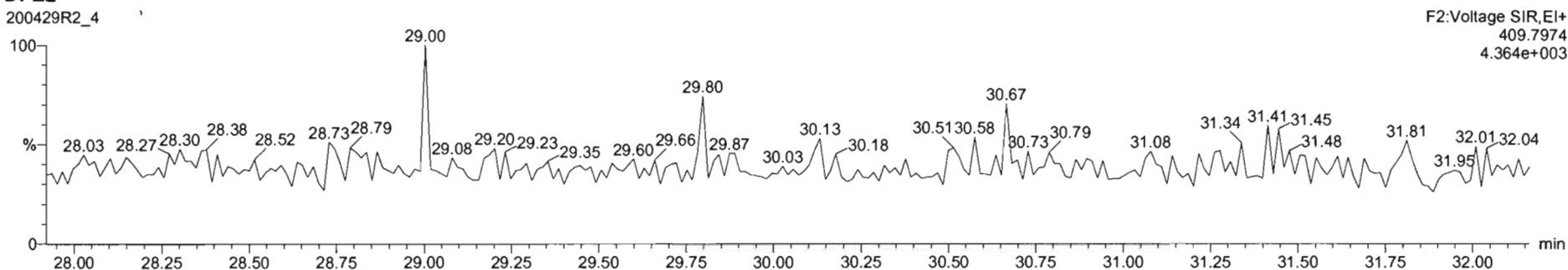


200429R2_4



DPE2

200429R2_4

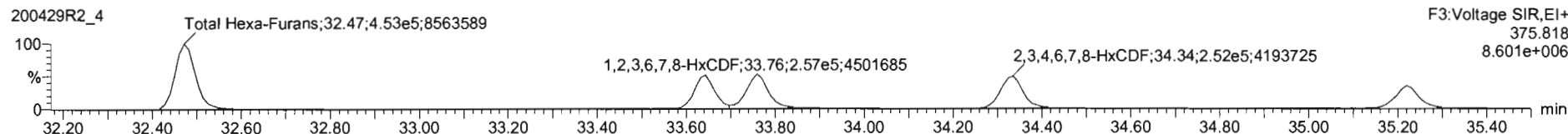
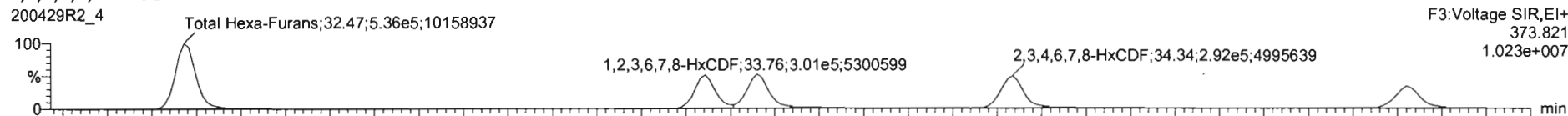


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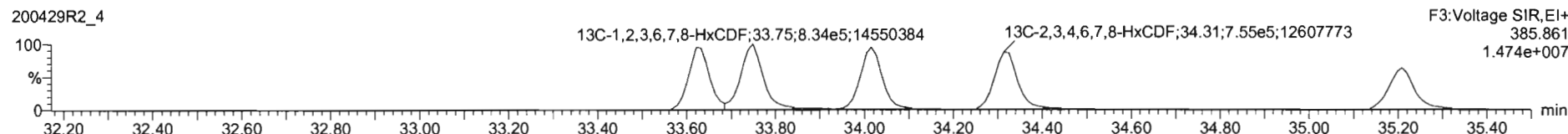
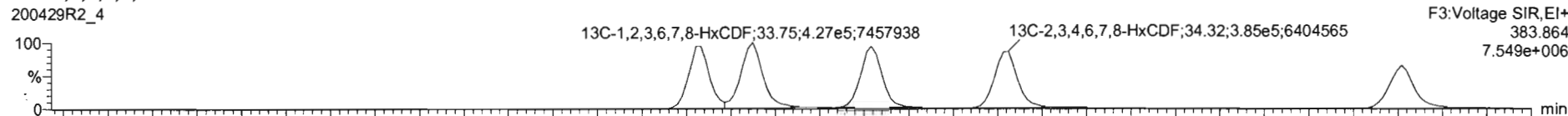
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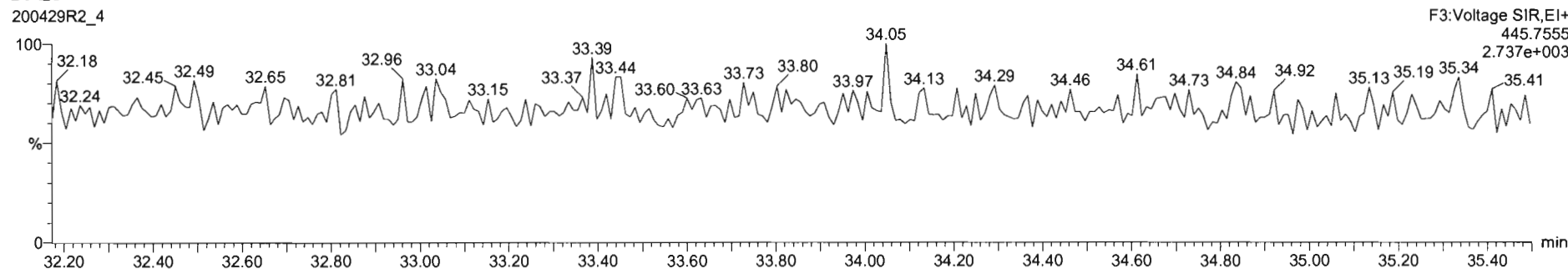
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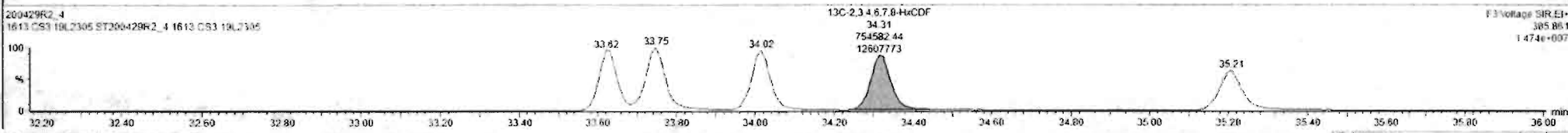
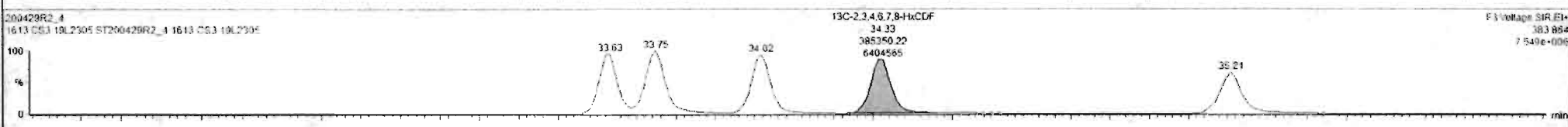
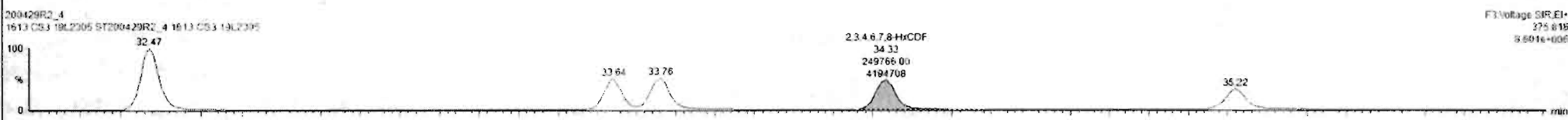
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DPE3

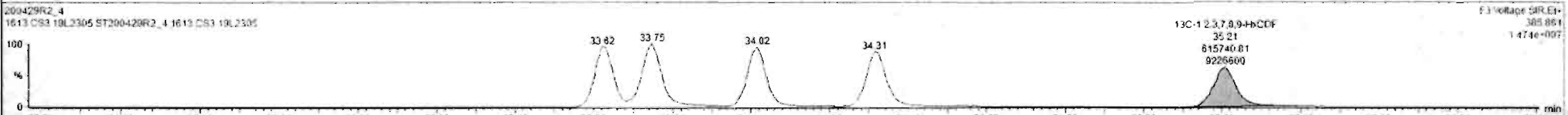
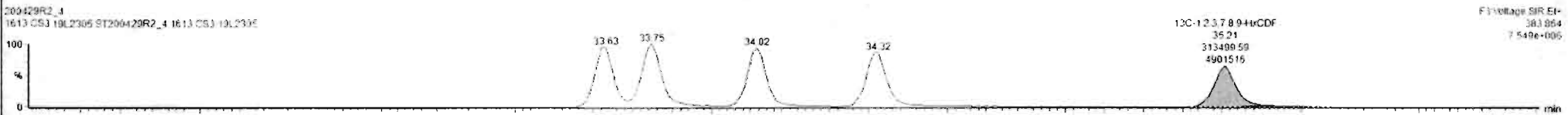
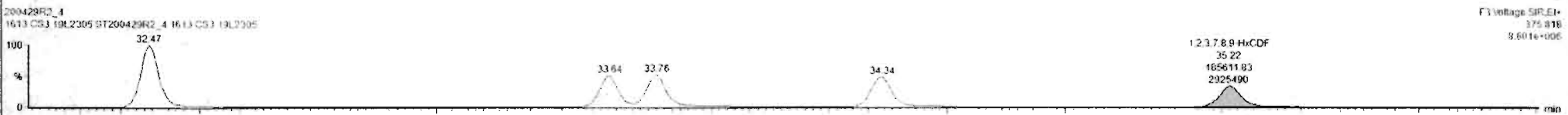


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1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e5	10.000	0.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0516
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	8.4850e5	50.000	-2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8927e5	1.0790e6	50.000	-0.9	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.219	NO	4.1946e5	9.5281e5	50.000	-1.8	7.64	0.915	0.0659
6	1,2,3,4,6,7,8-HpCDD	38.36	0.988	NO	3.0769e5	6.7896e5	50.000	1.0	6.93	0.856	0.0622
7	OCDD	41.35	0.879	NO	5.6337e5	1.1777e6	100.000	2.5	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e5	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.089	NO	8.4785e5	1.6762e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.90	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1232e6	50.000	1.1	7.59	0.878	0.0686
12	1,2,3,6,7,8-HxCDF	33.75	1.173	NO	5.5786e5	1.2611e6	50.000	1.2	7.23	0.874	0.0652
13	2,3,4,6,7,8-HxCDF	34.33	1.171	NO	5.4192e5	1.1399e6	50.000	3.2	7.89	0.922	0.0765
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.7	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.952	NO	3.7224e5	6.6485e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	0.998	NO	2.5973e5	5.1832e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.3639e5	1.3186e6	100.000	1.3	7.16	0.802	0.0575



Custom Reporting: Select reports to generate

#	Name	RT	RA	ym	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e6	10.000	0.8	1.35	0.647	0.0507
2	1,2,3,7,8-PeCDD	21.13	0.616	NO	5.2678e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	24.51	1.220	NO	4.4168e5	8.4852e5	50.000	-2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	24.80	1.202	NO	4.8027e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0567
5	1,2,3,7,8,9-HxCDD	24.98	1.219	NO	4.1546e5	9.3381e5	50.000	-1.5	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	26.38	0.988	NO	2.0769e5	6.7896e5	50.000	1.0	6.92	0.856	0.0622
7	OCDD	41.25	0.879	NO	5.6337e5	1.1777e6	100.000	2.5	7.57	0.613	0.0707
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4165e5	1.6682e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.6312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5706e5	1.2611e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.23	1.170	NO	5.4197e5	1.1394e6	50.000	3.1	7.69	0.902	0.0709
14	1,2,3,7,8,9-HxCDF	35.22	1.164	NO	4.6244e5	9.2024e5	50.000	0.2	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7234e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.98	0.998	NO	2.5973e5	5.1182e5	50.000	0.3	6.82	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.1650e5	1.3198e6	100.000	1.5	7.16	0.802	0.0575



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200429R2_4 CAP NUM

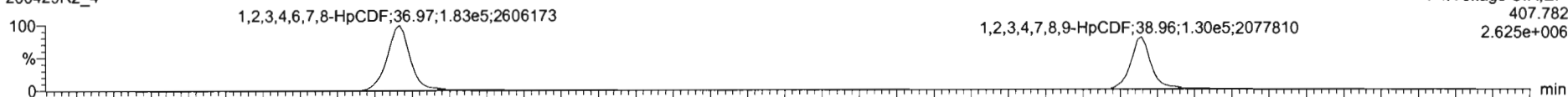
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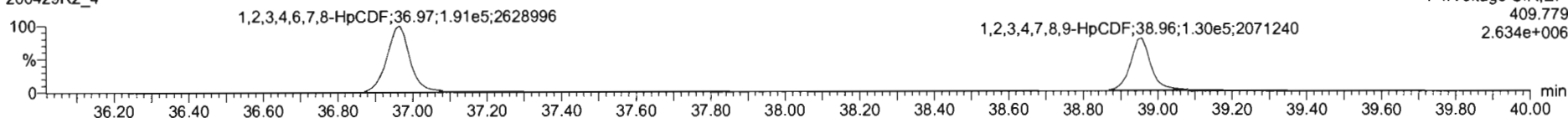
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1,2,3,4,6,7,8-HpCDF

200429R2_4

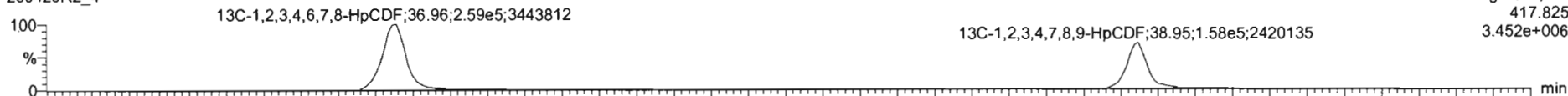


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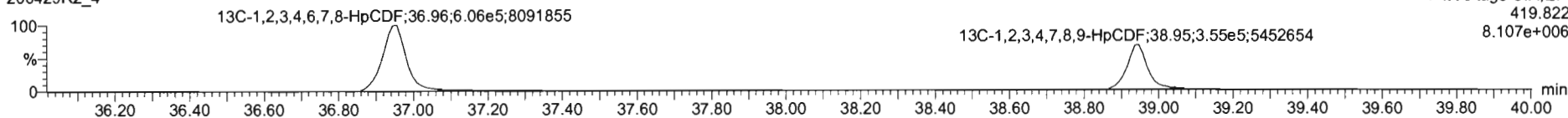


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200429R2_4

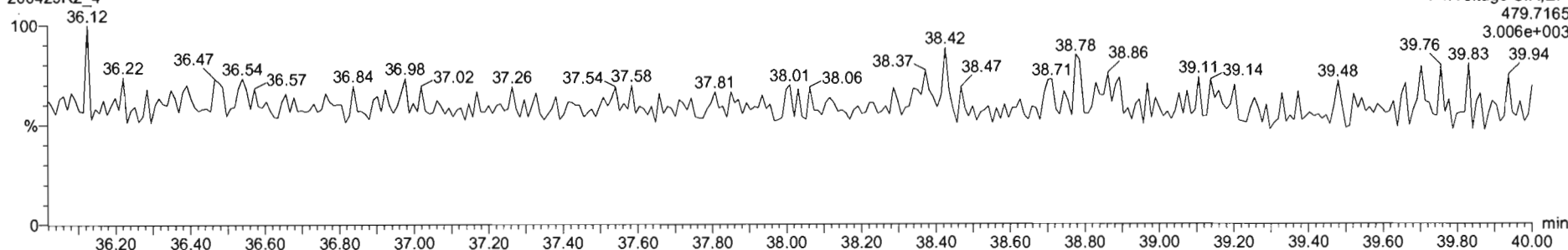


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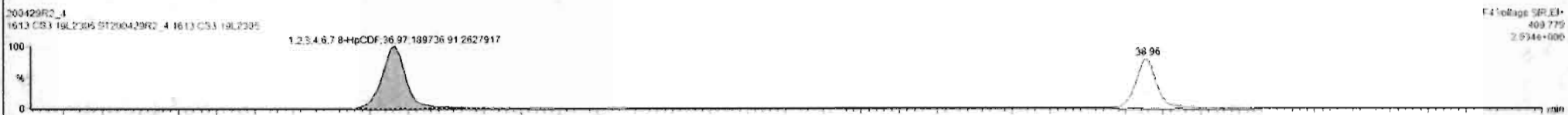


DPE4

200429R2_4



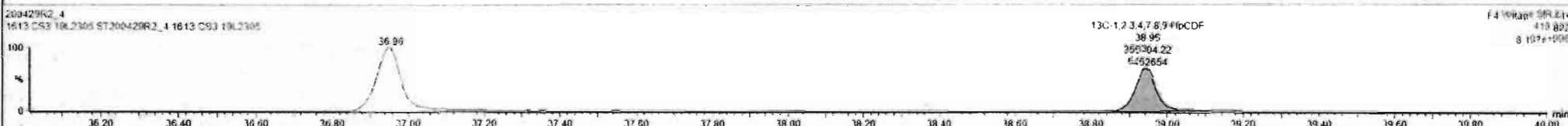
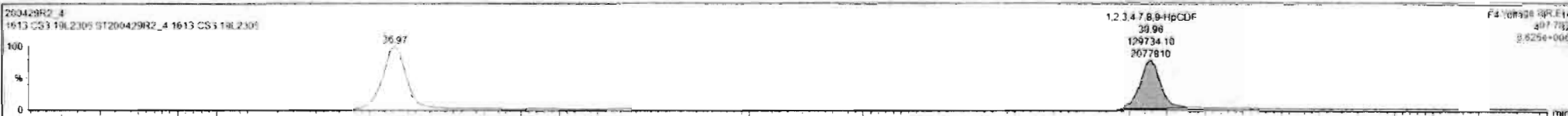
#	s	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1	1,2,3,7,8-TCDD	26.07	0.751	NO	1.4250e5	1.4820e6	10.000	0.8	5.25	0.947	0.0507
2	2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.2679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4160e5	3.4852e5	50.000	-2.2	6.62	1.06	0.0704
4	4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8907e5	1.6796e6	50.000	-0.9	6.53	0.915	0.0597
5	5	1,2,3,7,8,9-HxCDD	34.88	1.238	NO	4.1946e5	9.3381e5	50.000	-1.8	7.64	0.915	0.0699
6	6	1,2,3,4,6,7,8-HpCDD	36.36	0.988	NO	3.0769e5	6.7896e5	50.000	1.0	6.90	0.856	0.0622
7	7	OCDD	41.35	0.879	NO	5.6337e5	1.1777e6	100.000	2.8	7.57	0.933	0.0767
8	8	1,2,3,7,8-TCDF	25.11	0.743	NO	1.8505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0402
9	9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4565e5	1.6562e6	50.000	0.0	5.86	0.910	0.0533
10	10	1,2,3,4,7,8-PeCDF	30.80	1.558	NO	8.7458e5	1.6179e6	50.000	-0.4	4.98	0.966	0.0461
11	11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0668
12	12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5706e5	1.2611e6	50.000	1.2	7.23	0.874	0.0632
13	13	1,2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4191e5	1.1799e6	50.000	3.2	7.69	0.922	0.0709
14	14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.96	0.864	0.0517
15	15	1,2,3,4,6,7,8-HpCDF	36.87	0.862	NO	3.7234e5	6.6465e5	50.000	-1.2	7.54	0.871	0.0657
16	16	1,2,3,4,7,8,9-HpCDF	38.98	0.998	NO	2.5673e5	5.1182e5	50.000	0.3	6.62	1.01	0.0670
17	17	OCDF	41.53	0.862	NO	5.3639e5	1.3198e6	100.000	1.3	7.16	0.802	0.0575



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200429R2_4 CAP NUM

#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e5	10.000	0.0	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	8.4852e5	50.000	-2.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8927e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0562
5	1,2,3,7,8,9-HxCDD	34.68	1.213	NO	4.1946e5	9.381e5	50.000	-1.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.38	0.988	NO	3.0765e5	6.7896e5	50.000	1.0	8.93	0.896	0.0622
7	OCDD	41.35	0.879	NO	5.6237e5	1.1777e6	100.000	2.5	7.57	0.933	0.0707
8	2,2,7,8-TCDF	25.11	0.743	NO	1.8505e5	2.1491e5	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4585e5	1.6581e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7488e5	1.8179e6	50.000	-0.4	4.98	0.968	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5706e5	1.2E11e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1999e6	50.000	3.2	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.96	0.804	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7274e5	8.6485e5	50.000	-1.2	7.54	0.671	0.0657
16	1,2,3,4,7,8,9-HxCDF	38.96	0.998	NO	2.5973e5	5.1163e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.7639e5	1.3198e6	100.000	1.3	7.16	0.802	0.0575

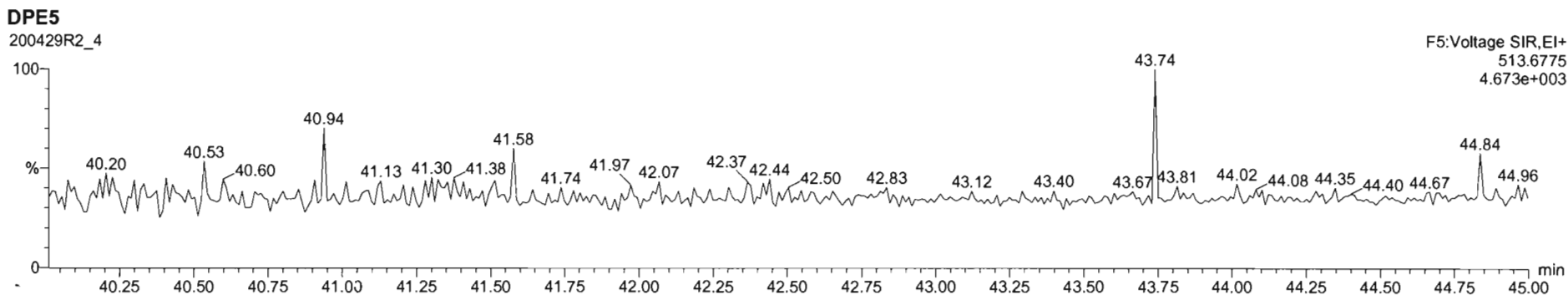
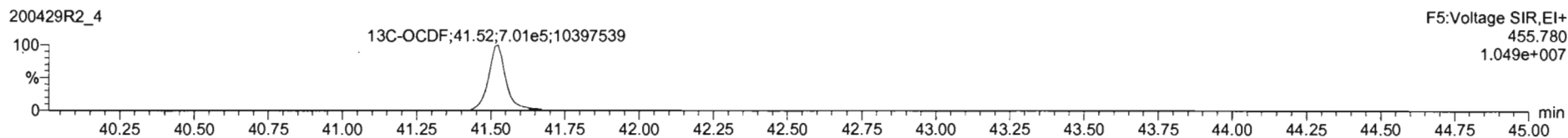
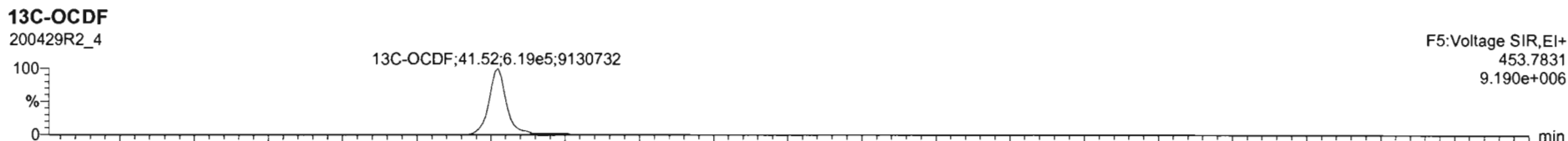
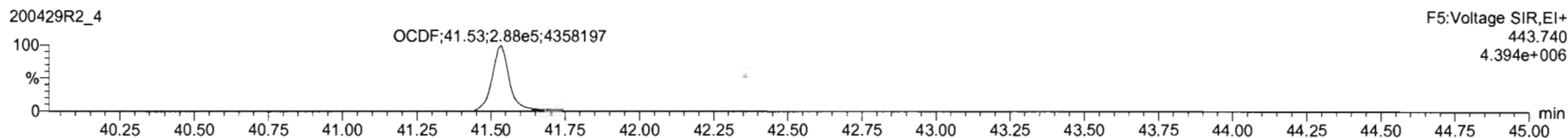
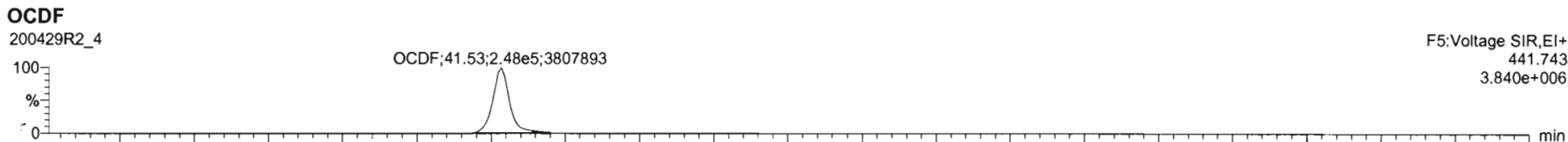


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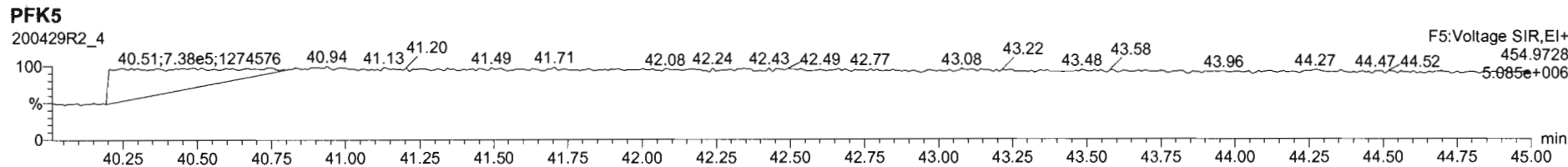
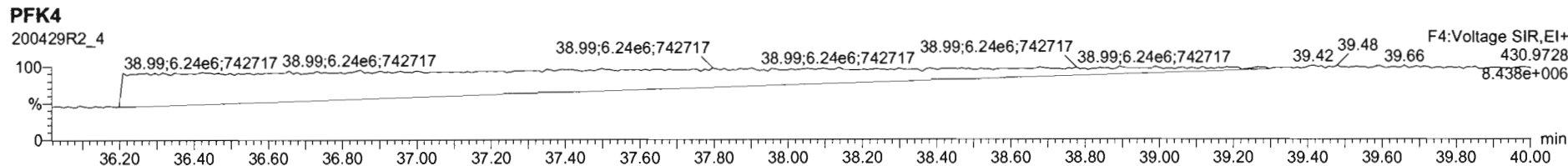
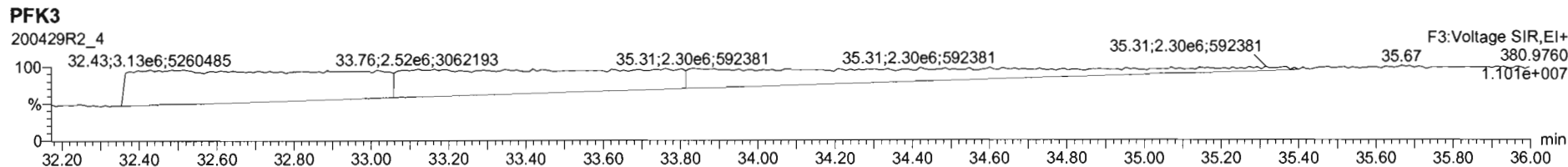
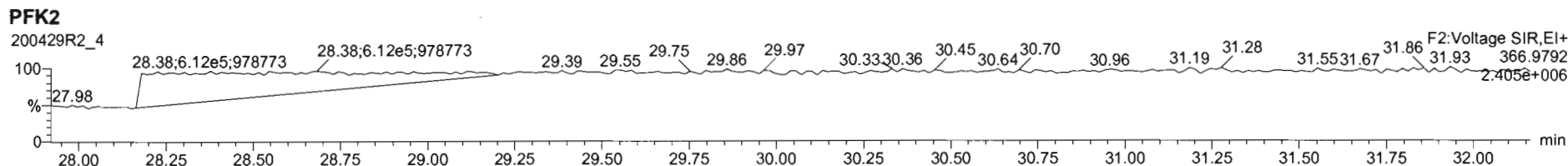
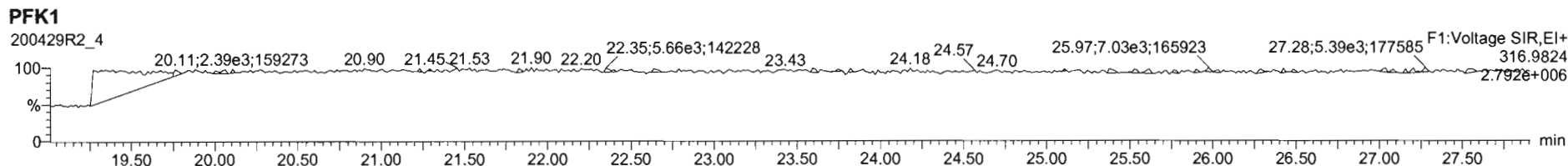
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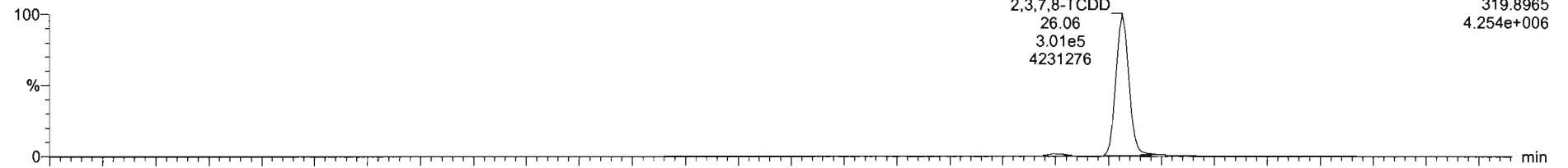
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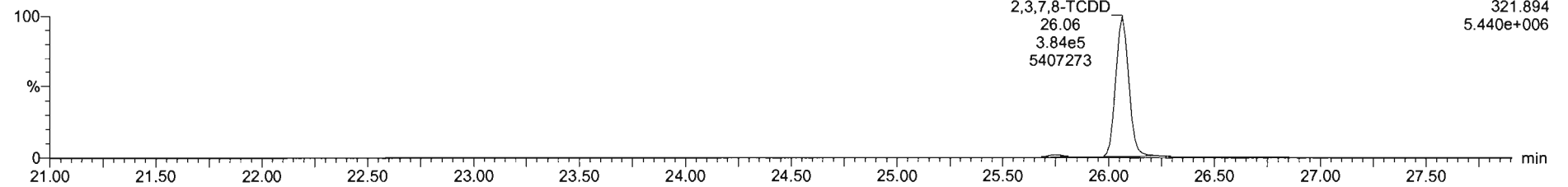
2,3,7,8-TCDD

200429R2_5



F1:Voltage SIR,EI+
319.8965
4.254e+006

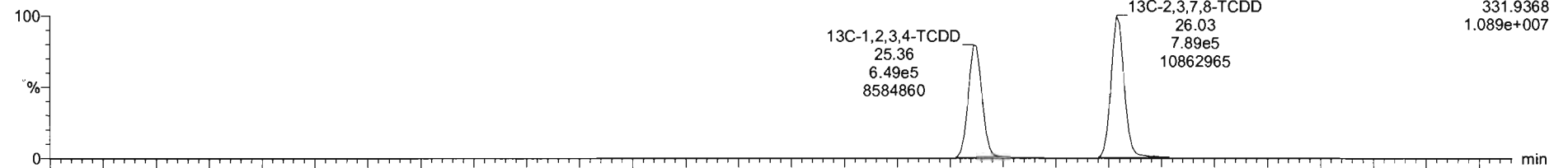
200429R2_5



F1:Voltage SIR,EI+
321.894
5.440e+006

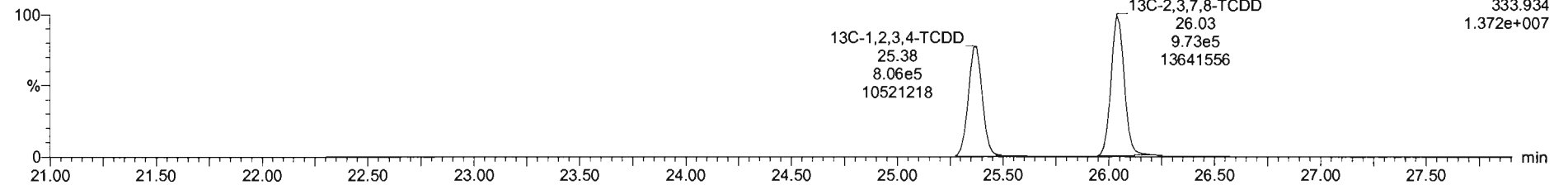
13C-2,3,7,8-TCDD

200429R2_5



F1:Voltage SIR,EI+
331.9368
1.089e+007

200429R2_5



F1:Voltage SIR,EI+
333.934
1.372e+007

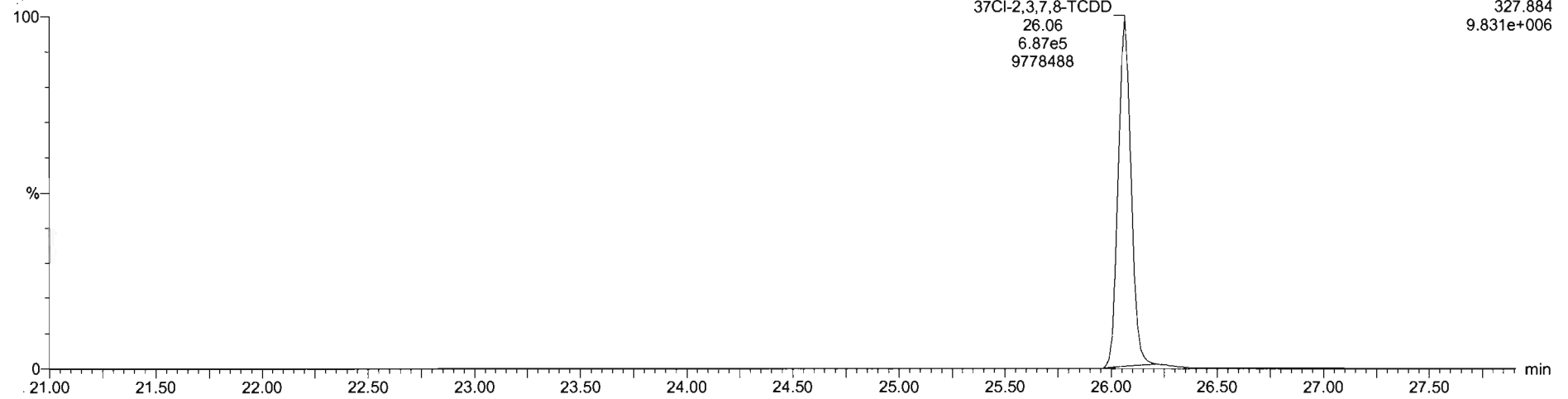
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_5, Date: 29-Apr-2020, Time: 16:35:58, ID: ST200429R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

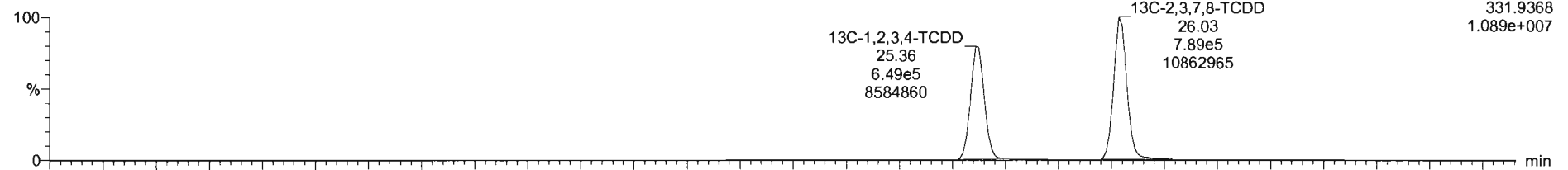
37Cl-2,3,7,8-TCDD

200429R2_5

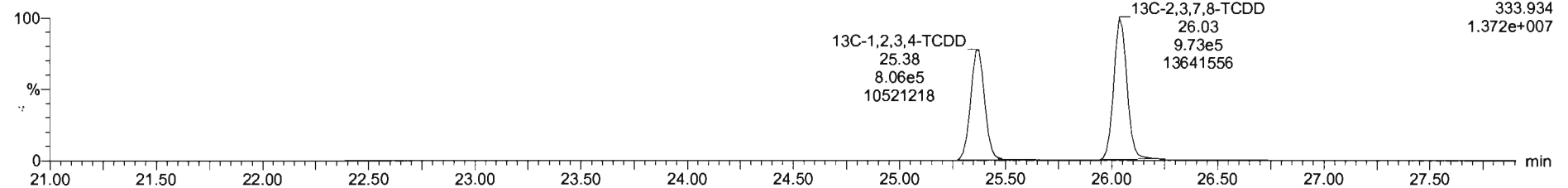


13C-1,2,3,4-TCDD

200429R2_5



200429R2_5



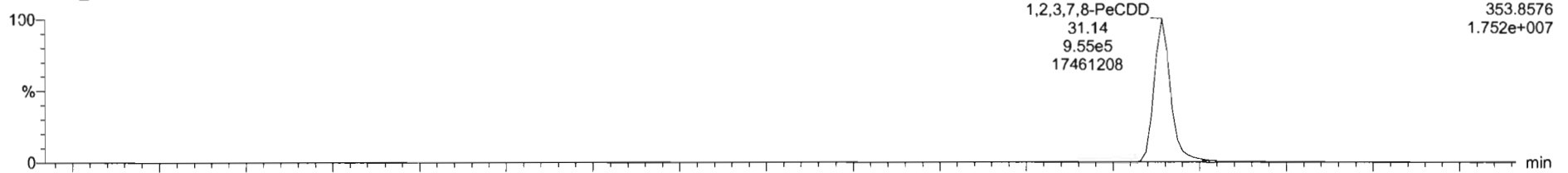
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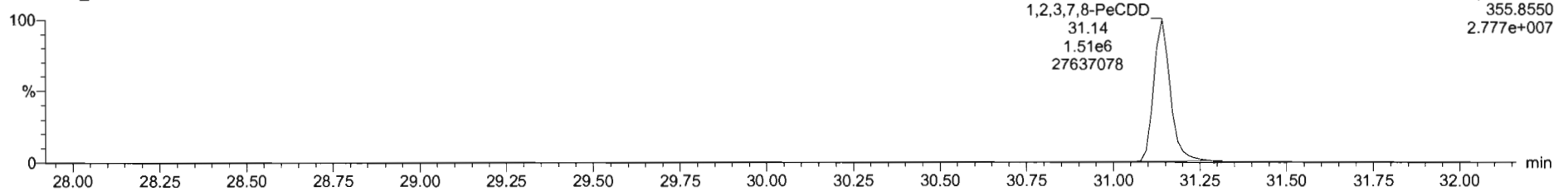
Name: 200429R2_5, Date: 29-Apr-2020, Time: 16:35:58, ID: ST200429R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

1,2,3,7,8-PeCDD

200429R2_5

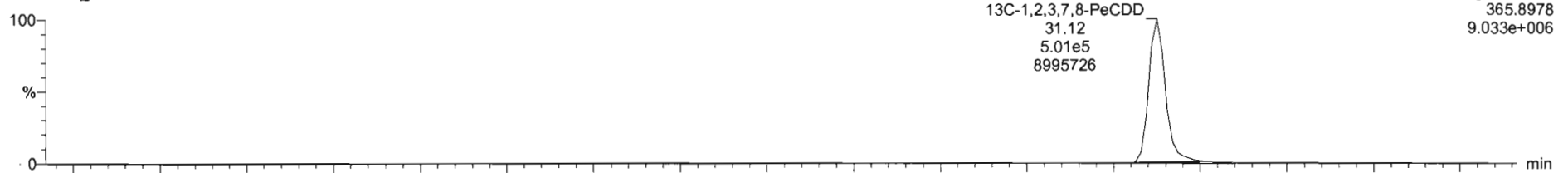


200429R2_5

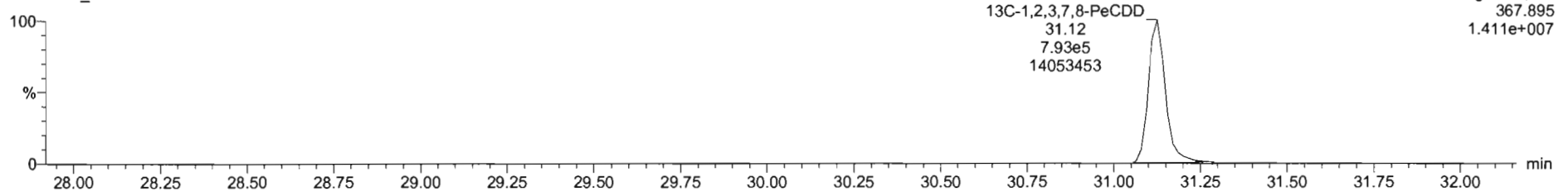


¹³C-1,2,3,7,8-PeCDD

200429R2_5



200429R2_5



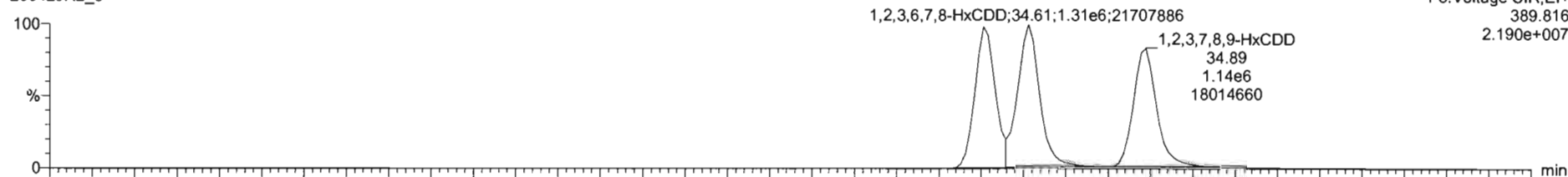
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_5, Date: 29-Apr-2020, Time: 16:35:58, ID: ST200429R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

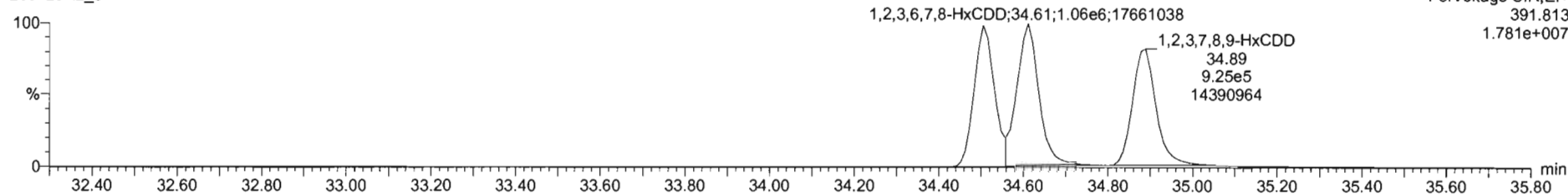
1,2,3,4,7,8-HxCDD

200429R2_5



F3:Voltage SIR,EI+
389.816
2.190e+007

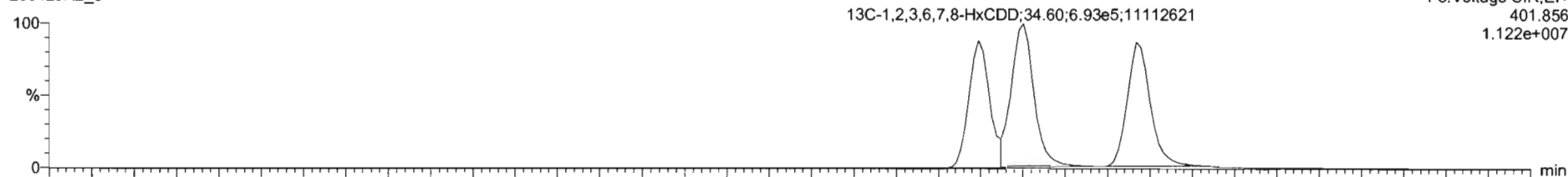
200429R2_5



F3:Voltage SIR,EI+
391.813
1.781e+007

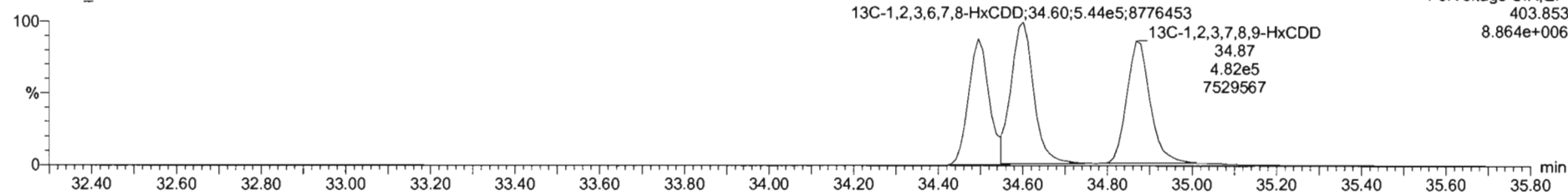
13C-1,2,3,4,7,8-HxCDD

200429R2_5



F3:Voltage SIR,EI+
401.856
1.122e+007

200429R2_5



F3:Voltage SIR,EI+
403.853
8.864e+006

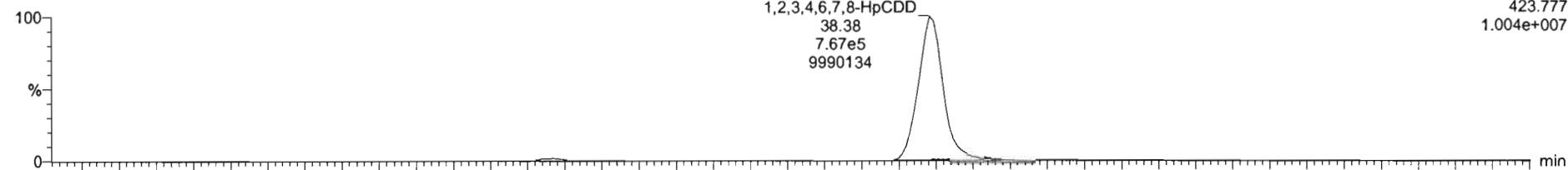
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

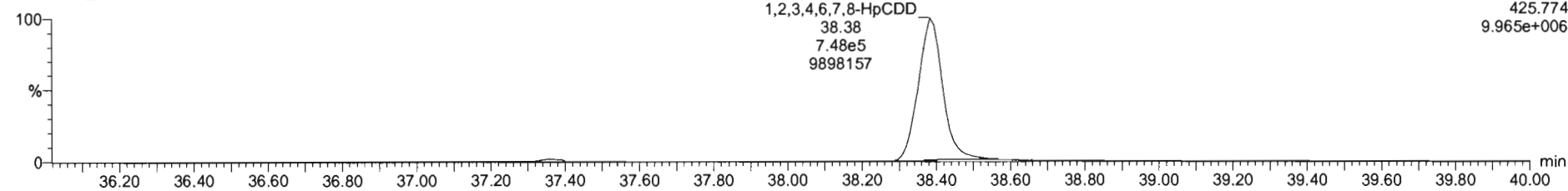
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1,2,3,4,6,7,8-HpCDD

200429R2_5

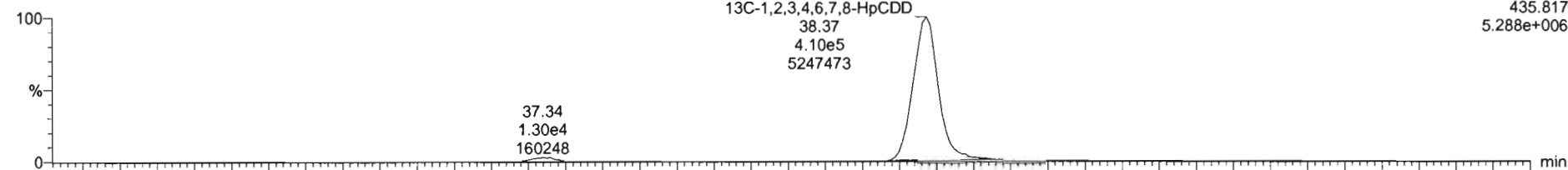


200429R2_5

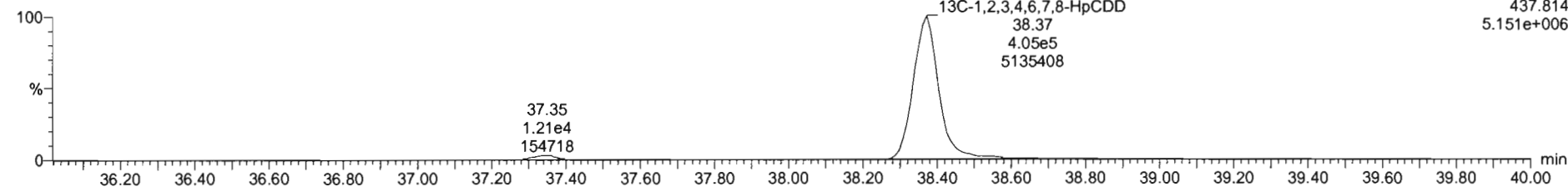


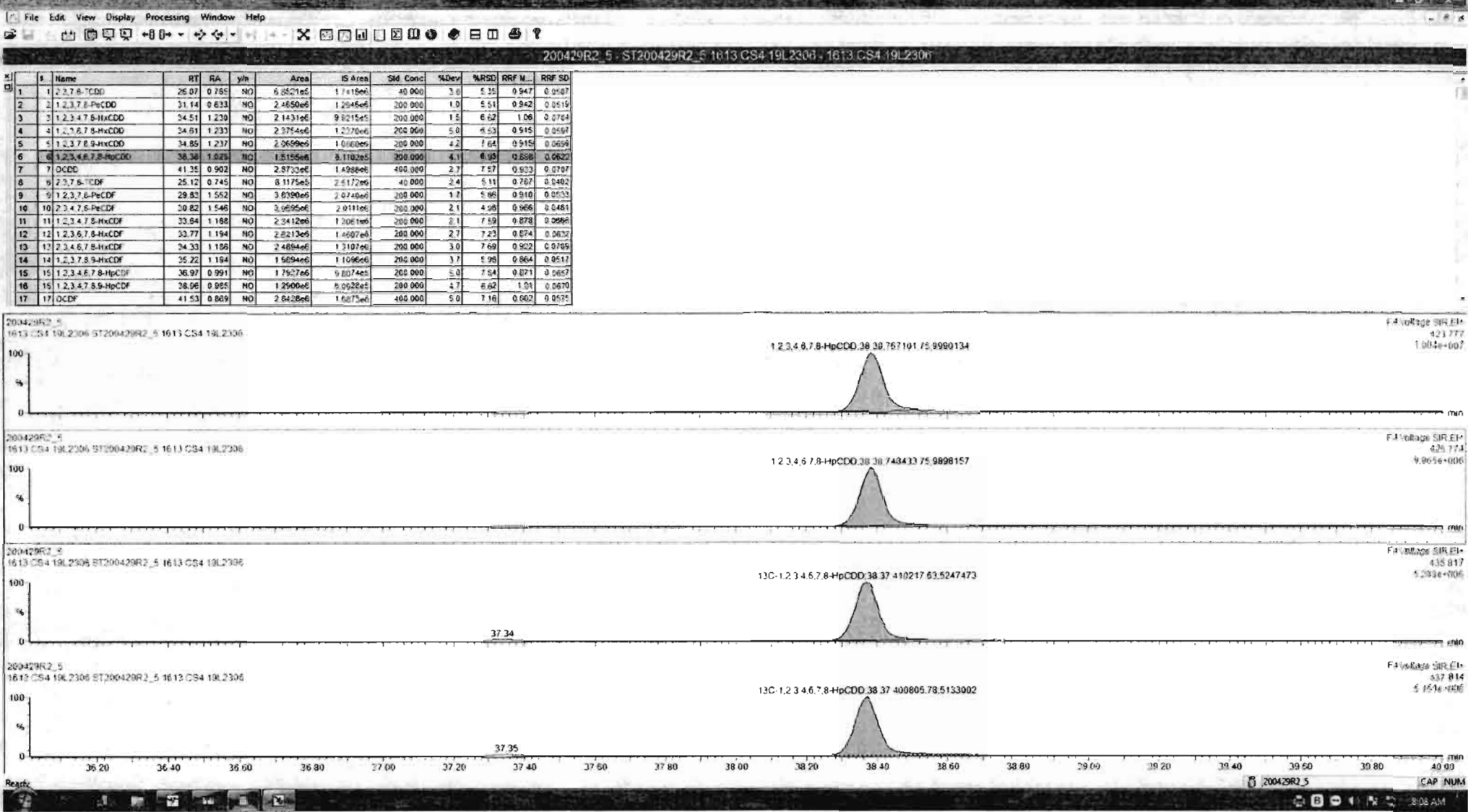
13C-1,2,3,4,6,7,8-HpCDD

200429R2_5



200429R2_5

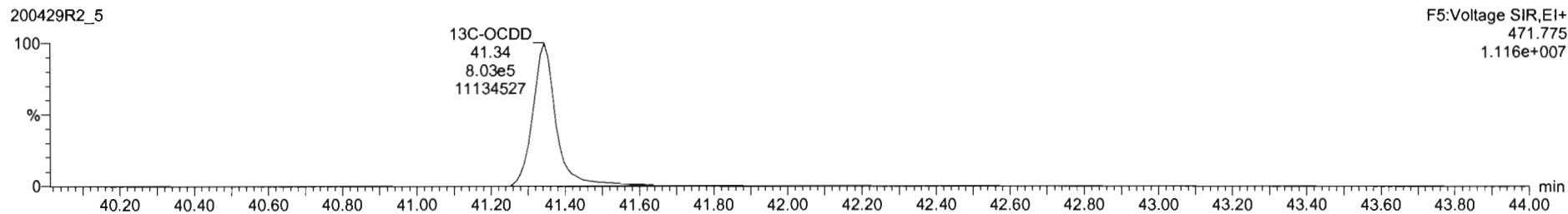
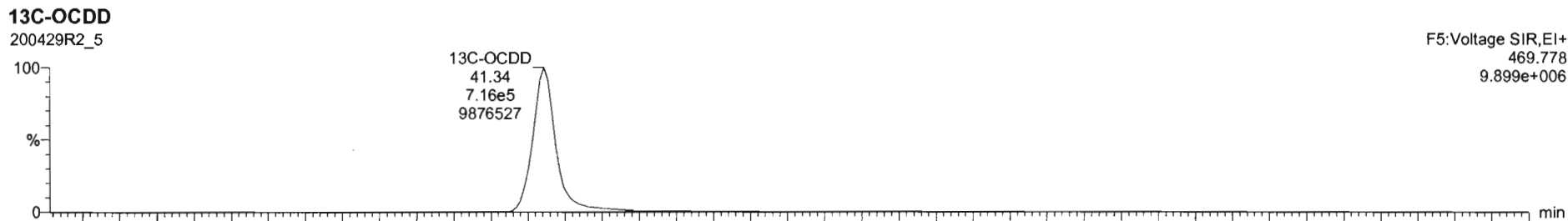
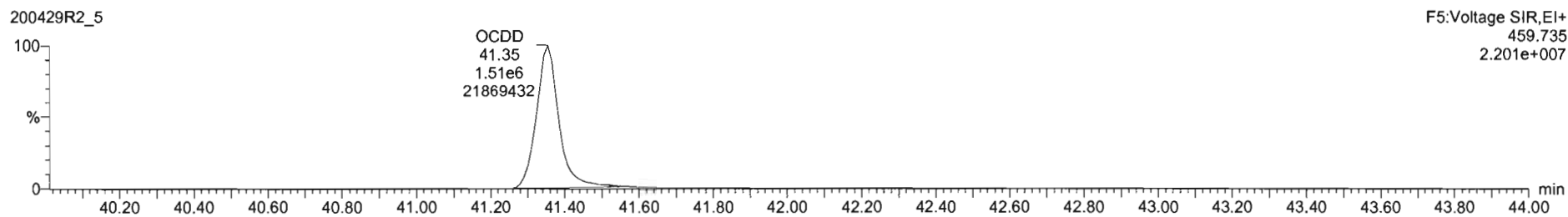
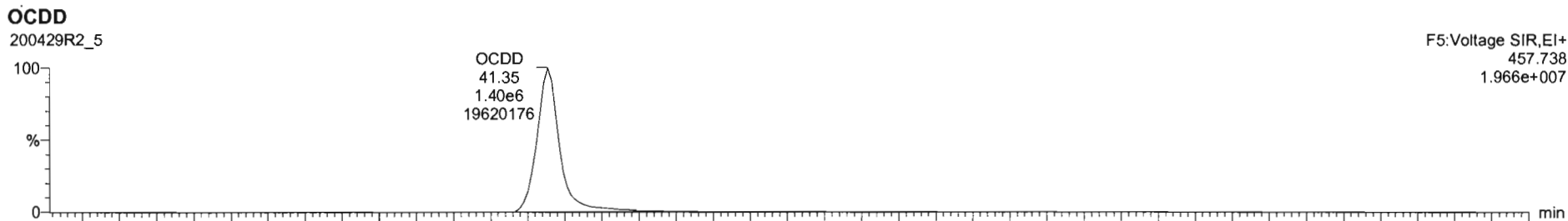




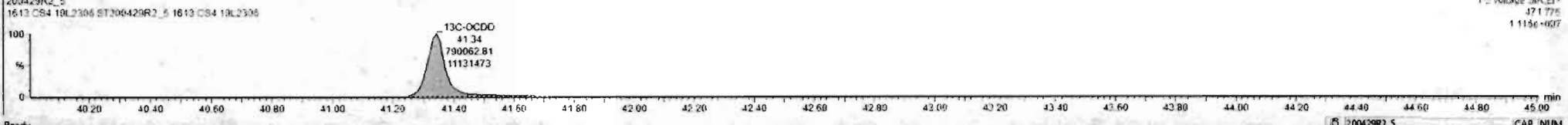
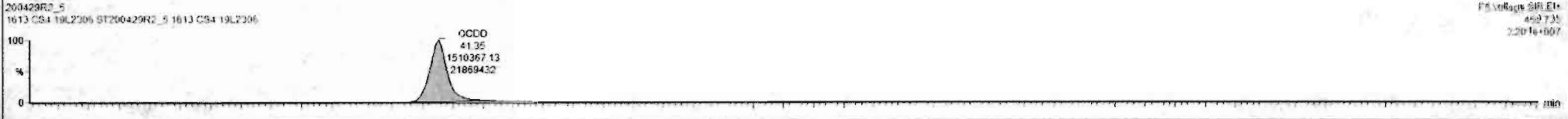
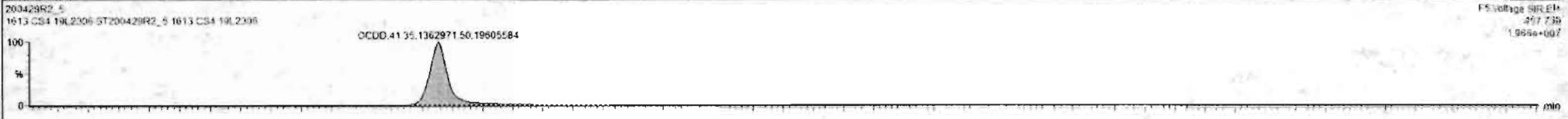
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_5, Date: 29-Apr-2020, Time: 16:35:58, ID: ST200429R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	2,3,7,8-TCDD	28.07	0.785	NO	6.6521e5	1.7418e6	40.000	2.0	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.633	NO	2.4650e5	1.2946e6	200.000	1.0	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.230	NO	2.1431e6	9.5215e5	200.000	1.5	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.81	1.233	NO	2.3754e6	1.2270e6	200.000	5.0	6.53	0.915	0.0592
5	1,2,3,7,8,9-HxCDD	34.85	1.237	NO	2.0659e5	1.0860e5	200.000	4.2	7.64	0.915	0.0656
6	1,2,3,4,6,7,8-HpCDD	36.38	1.025	NO	1.5155e6	5.1102e5	200.000	4.1	6.92	0.856	0.0520
7	OCDD	41.35	0.962	ND	2.8733e6	1.4889e6	400.000	2.7	7.57	0.833	0.0767
8	2,3,7,8-TCDF	25.12	0.745	NO	8.1175e5	2.5172e6	40.000	2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.83	1.552	NO	3.6390e6	2.0740e6	200.000	1.7	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.546	NO	3.9655e6	2.0111e6	200.000	2.1	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.158	NO	2.3412e6	1.3061e6	200.000	2.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.77	1.194	NO	2.6213e6	1.4607e6	200.000	2.7	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.186	NO	2.4894e6	1.3107e6	200.000	3.0	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.22	1.194	NO	1.9654e6	1.1056e6	200.000	3.7	5.98	0.864	0.0512
15	1,2,3,4,6,7,8-HpCDF	36.97	0.991	NO	1.7927e6	9.8074e5	200.000	5.0	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	0.865	NO	1.2500e6	6.9528e5	200.000	4.7	6.62	1.01	0.0670
17	OCDF	41.53	0.869	NO	2.8428e6	1.6673e6	400.000	5.0	7.16	0.802	0.0575



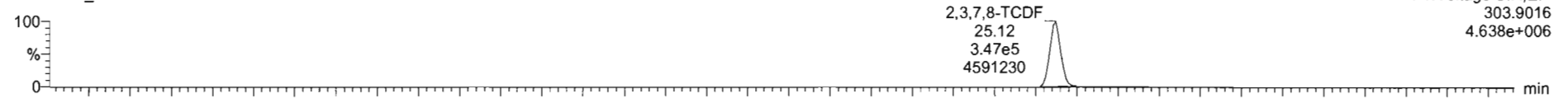
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

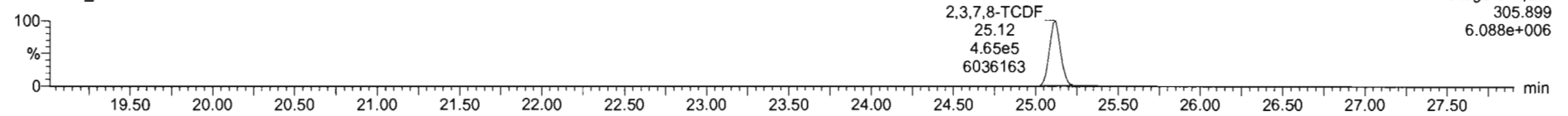
Name: 200429R2_5, Date: 29-Apr-2020, Time: 16:35:58, ID: ST200429R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

2,3,7,8-TCDF

200429R2_5

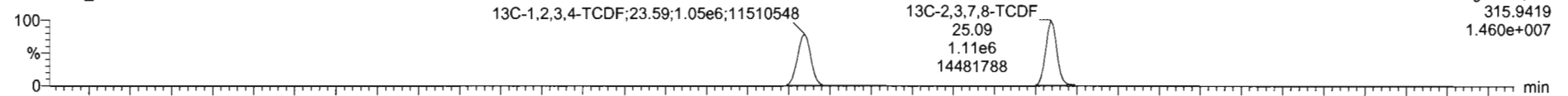


200429R2_5

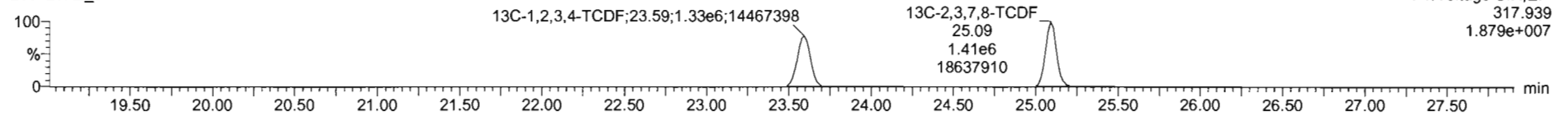


13C-2,3,7,8-TCDF

200429R2_5

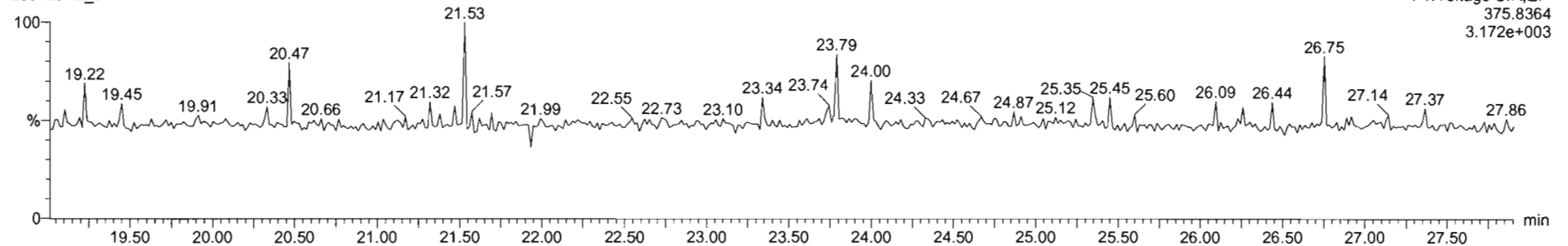


200429R2_5



DPE1

200429R2_5



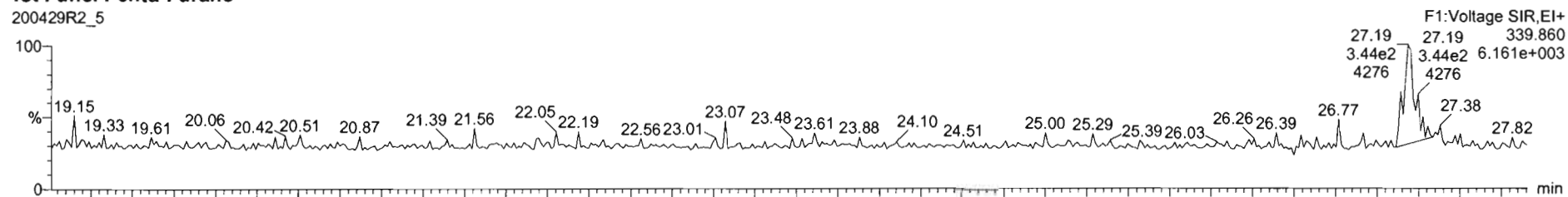
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

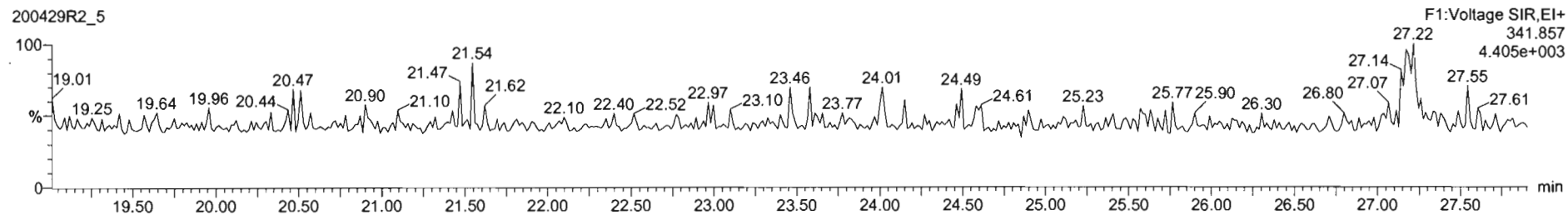
Name: 200429R2_5, Date: 29-Apr-2020, Time: 16:35:58, ID: ST200429R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

1st Func. Penta-Furans

200429R2_5

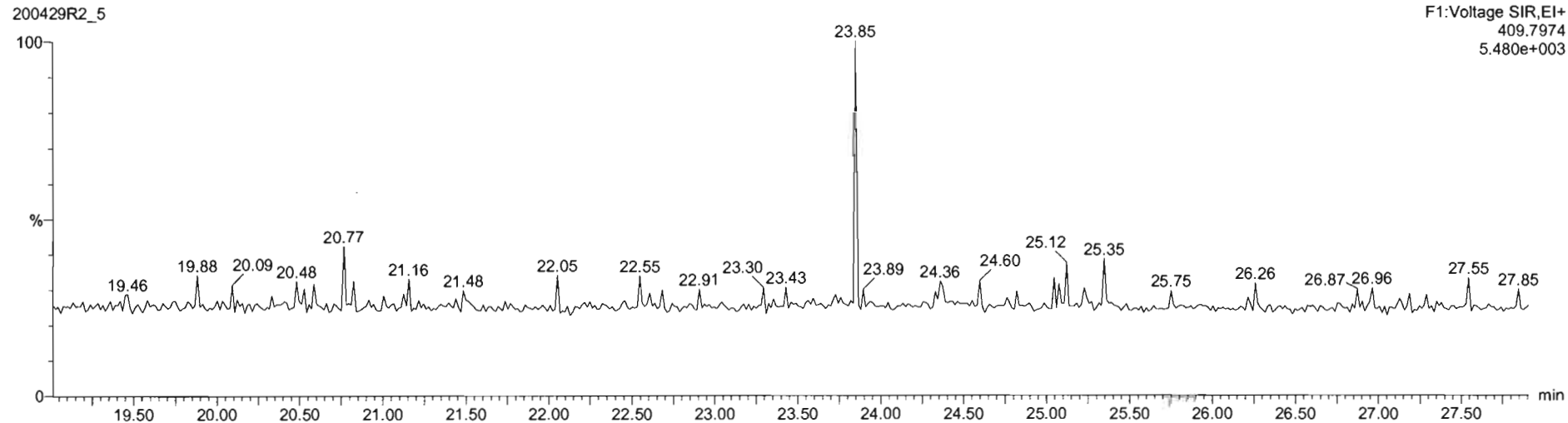


200429R2_5



DPE6

200429R2_5



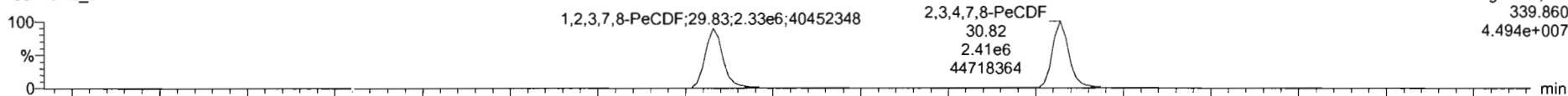
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

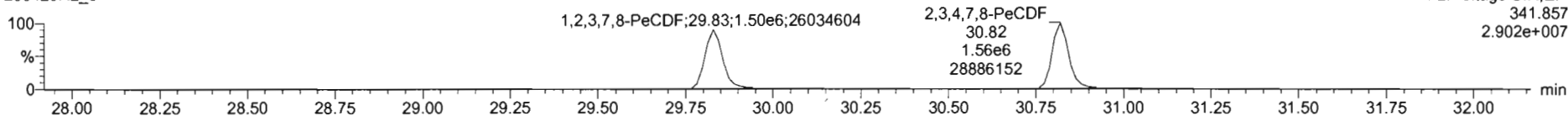
Name: 200429R2_5, Date: 29-Apr-2020, Time: 16:35:58, ID: ST200429R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

1,2,3,7,8-PeCDF

200429R2_5

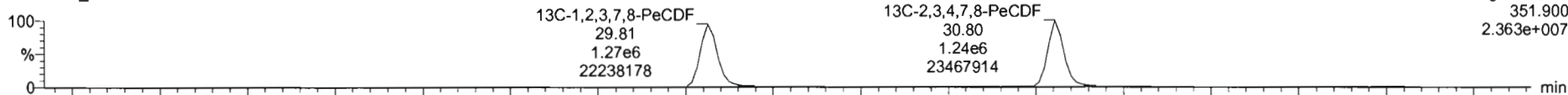


200429R2_5

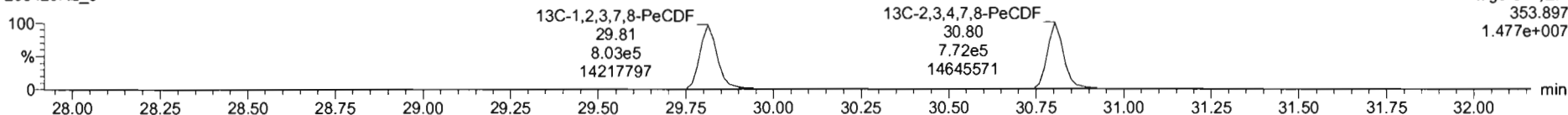


13C-1,2,3,7,8-PeCDF

200429R2_5

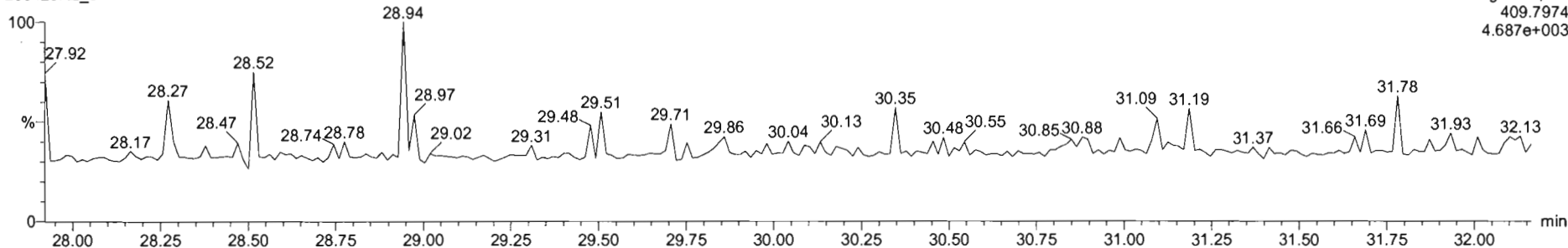


200429R2_5



DPE2

200429R2_5



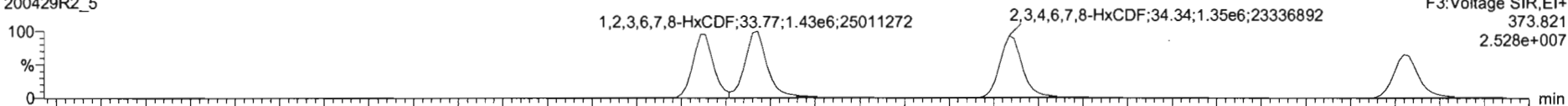
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

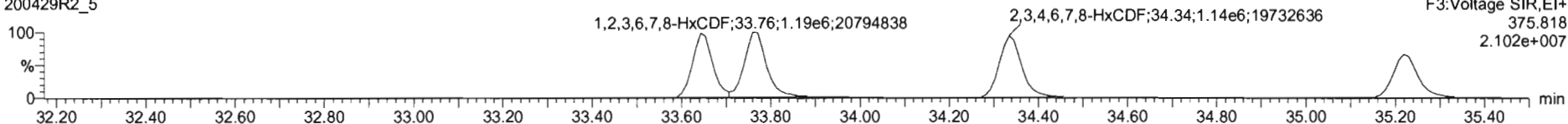
Name: 200429R2_5, Date: 29-Apr-2020, Time: 16:35:58, ID: ST200429R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200429R2_5

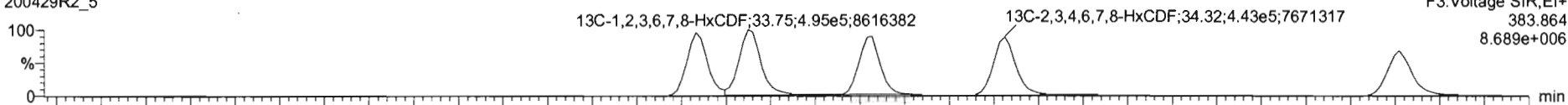


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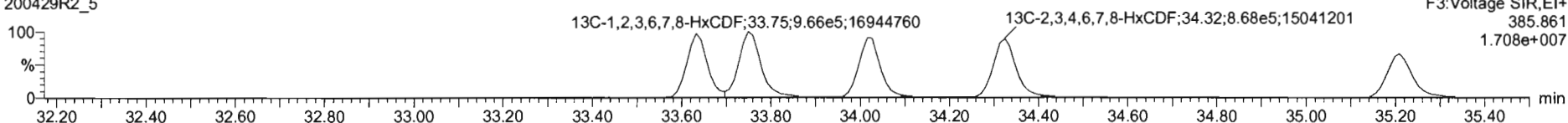


13C-1,2,3,4,7,8-HxCDF

200429R2_5

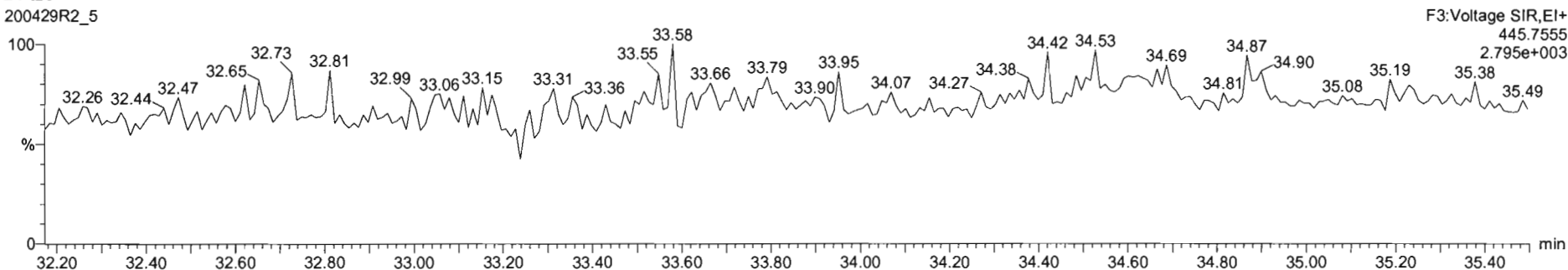


200429R2_5

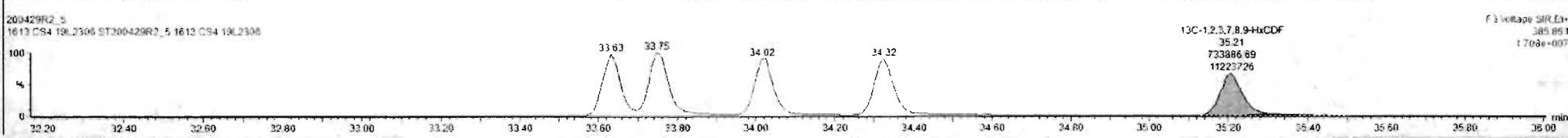
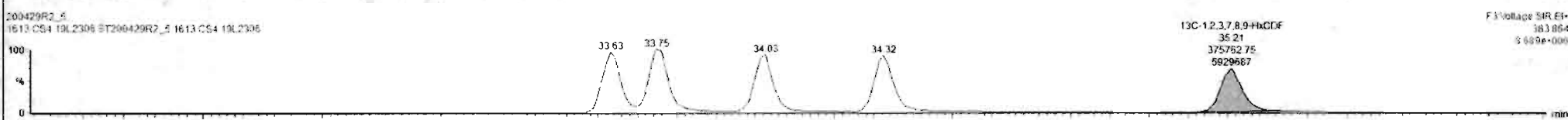
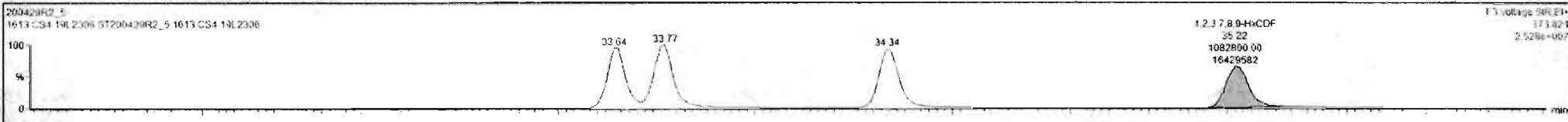


DPE3

200429R2_5



#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.97	0.785	NO	6.6521e5	1.7418e6	40.000	2.6	5.25	0.947	0.0597
2	1,2,3,7,8-PeCDD	31.14	0.633	NO	2.4650e6	1.2646e6	200.000	1.0	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.230	NO	2.1431e6	9.9215e5	200.000	1.5	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.81	1.233	NO	2.3754e6	1.2270e6	200.000	5.0	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.89	1.237	NO	2.0699e6	1.0860e6	200.000	4.2	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.025	NO	1.5155e6	5.1102e5	200.000	4.1	8.93	0.896	0.0622
7	OCDD	41.35	0.902	NO	2.8733e6	1.4988e6	400.000	2.7	7.57	0.933	0.0767
8	2,3,7,8-TCDF	25.12	0.745	NO	3.1175e5	2.5172e5	40.000	2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.82	1.552	NO	3.6390e6	2.0740e6	200.000	1.7	5.86	0.910	0.0523
10	2,3,4,7,8-PeCDF	30.82	1.548	NO	3.9695e6	2.0111e6	200.000	2.1	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.188	NO	2.2412e6	1.2061e6	200.000	2.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.77	1.194	NO	2.6213e6	1.4607e6	200.000	2.7	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.189	NO	2.4894e6	1.3107e6	200.000	3.0	7.69	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.22	1.194	NO	4.9084e6	1.1096e6	200.000	3.7	5.28	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.991	NO	1.7937e6	9.8074e5	200.000	5.0	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.885	NO	1.2900e6	5.6628e5	200.000	4.7	6.62	1.01	0.0670
17	OCDF	41.53	0.869	NO	2.8428e6	1.6675e6	400.000	5.0	7.16	0.802	0.0575



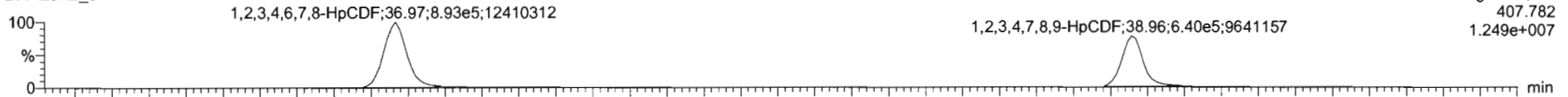
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

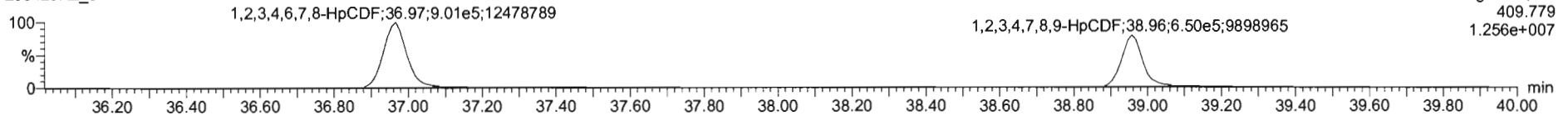
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1,2,3,4,6,7,8-HpCDF

200429R2_5

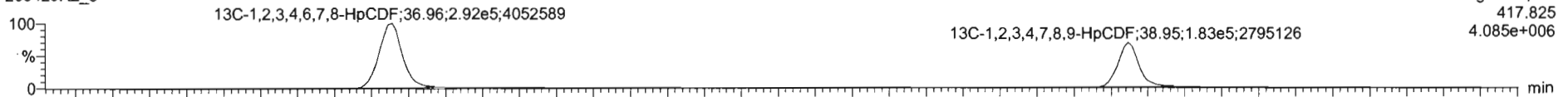


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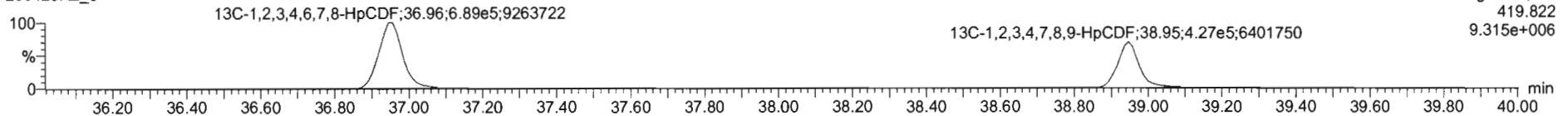


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200429R2_5

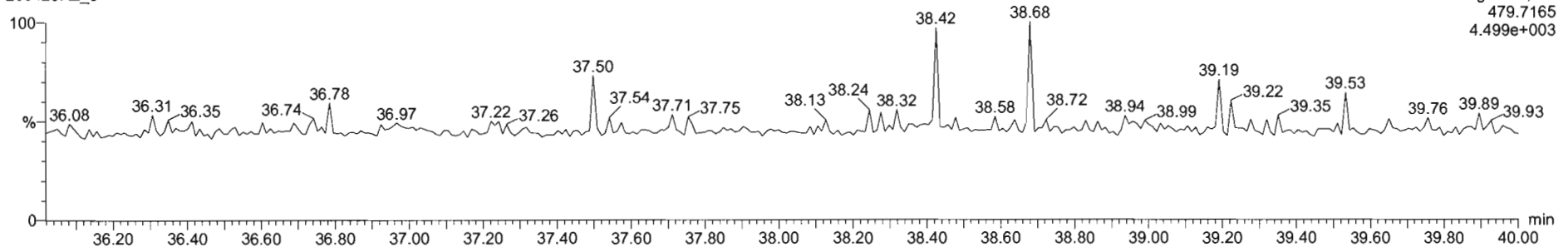


200429R2_5



DPE4

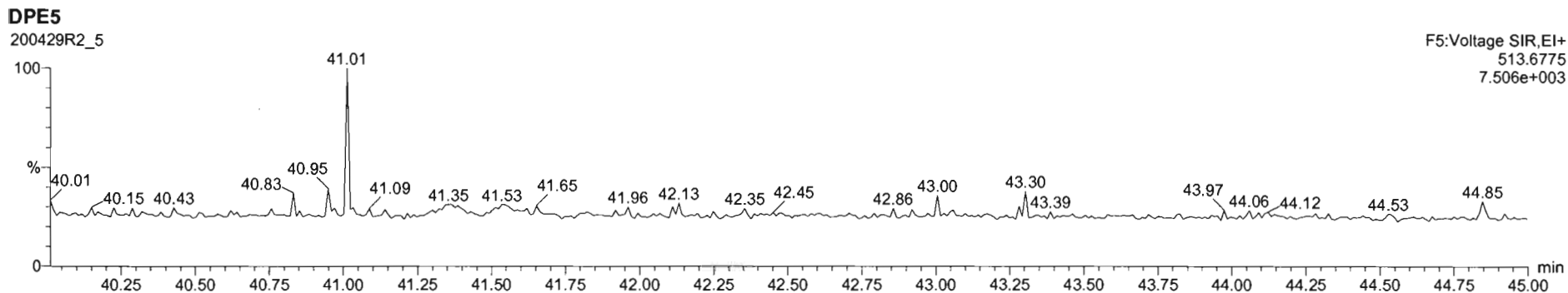
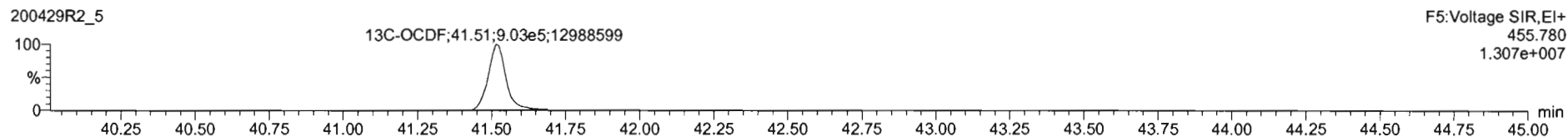
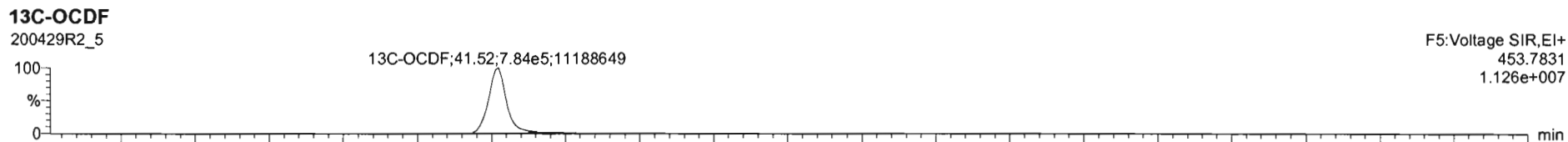
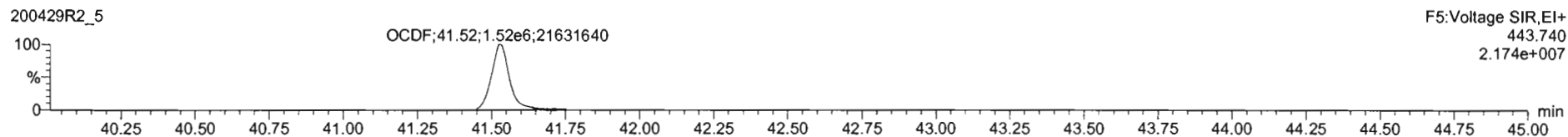
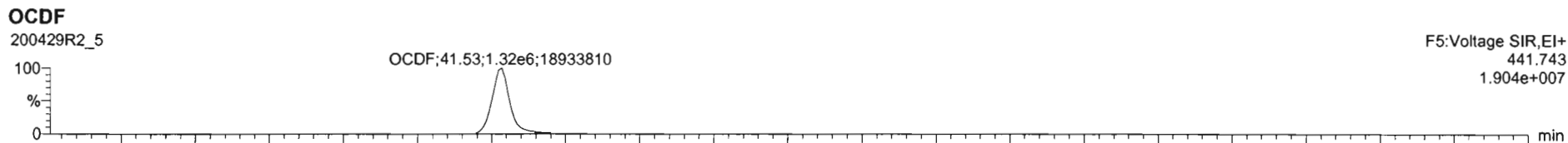
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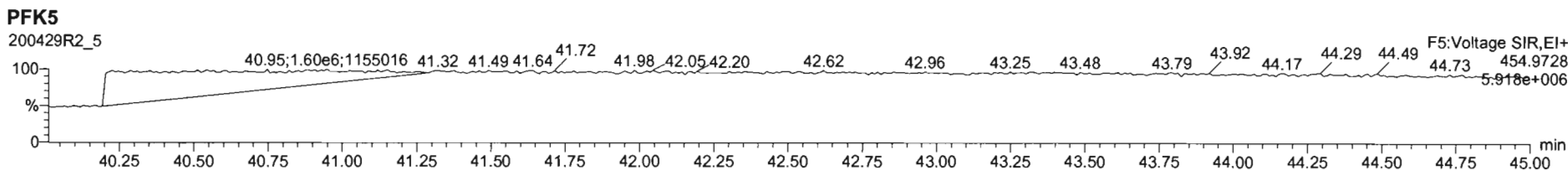
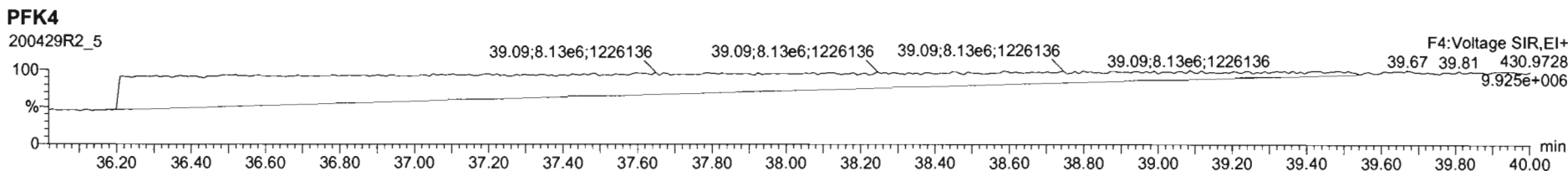
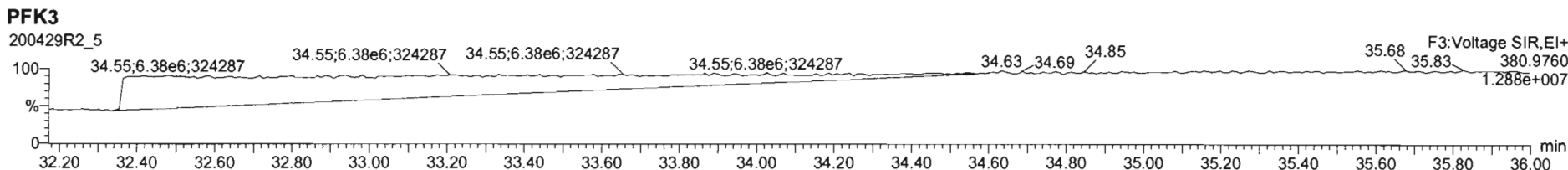
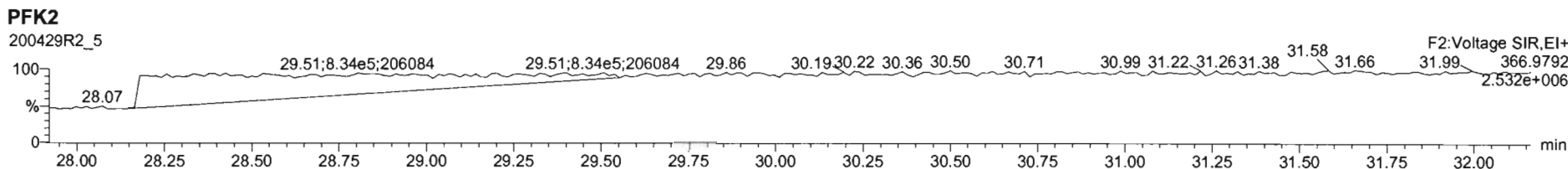
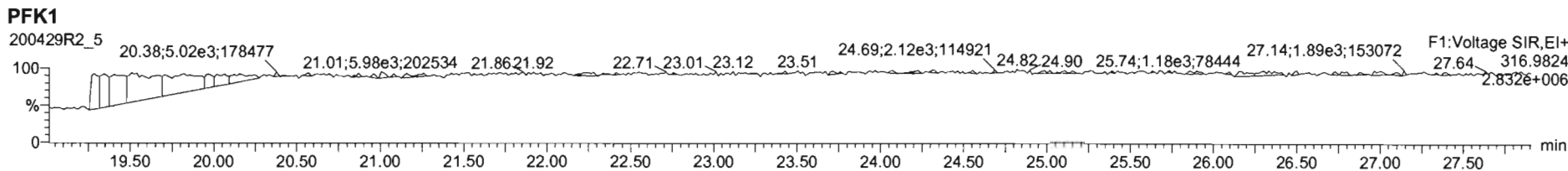


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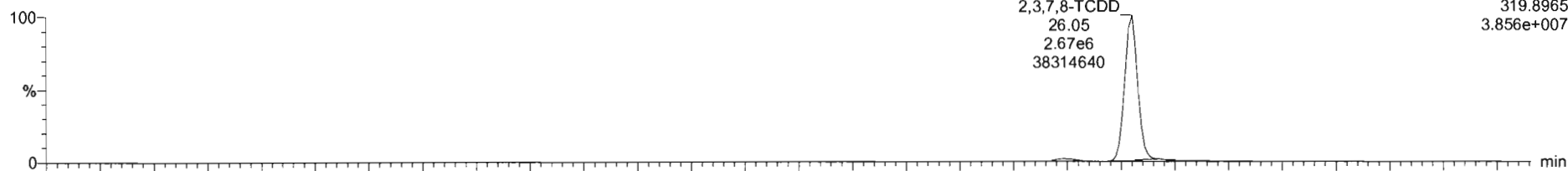
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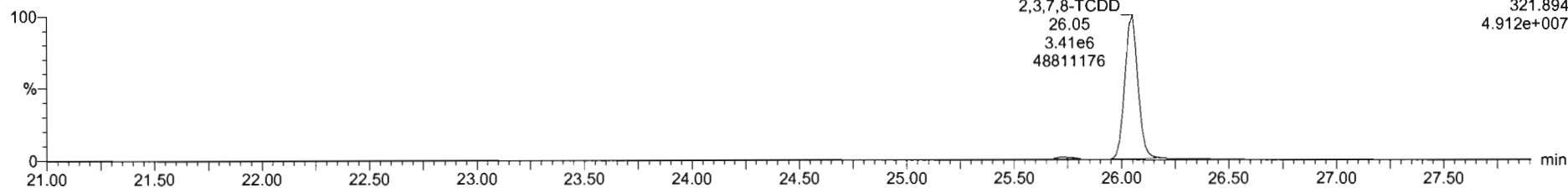
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2,3,7,8-TCDD

200429R2_6

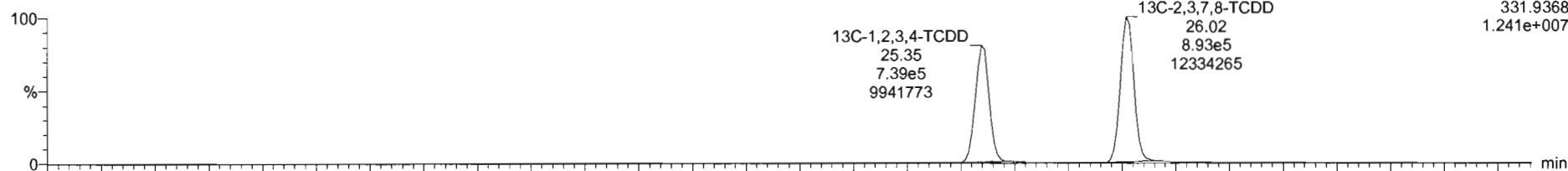


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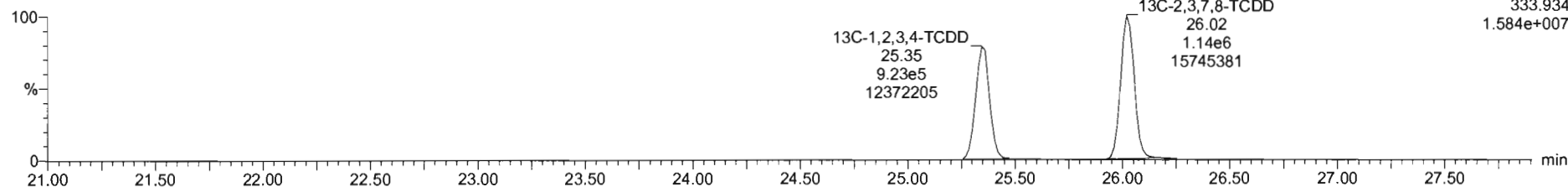


13C-2,3,7,8-TCDD

200429R2_6



200429R2_6



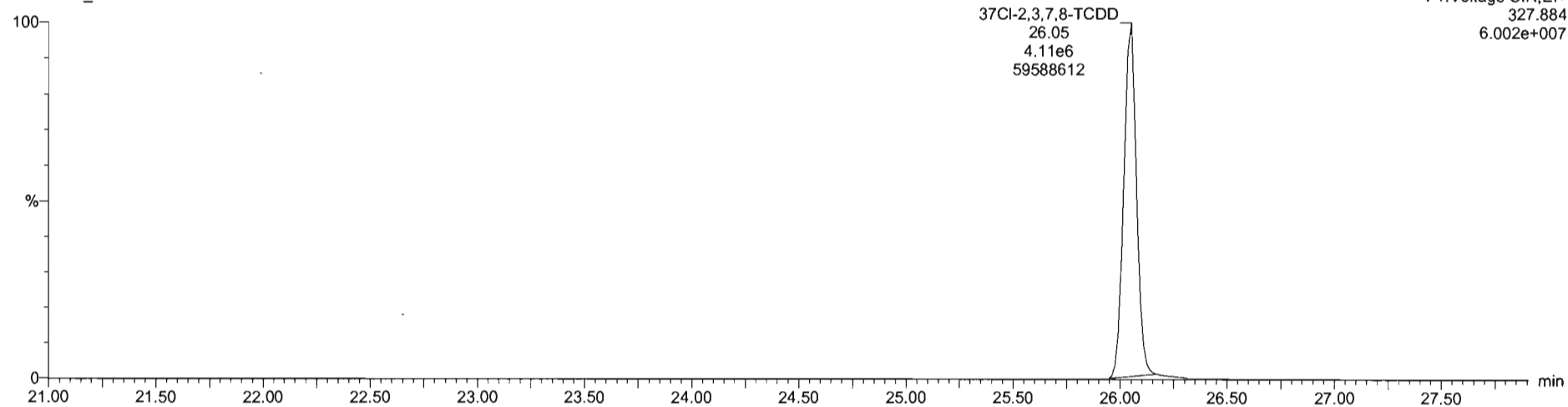
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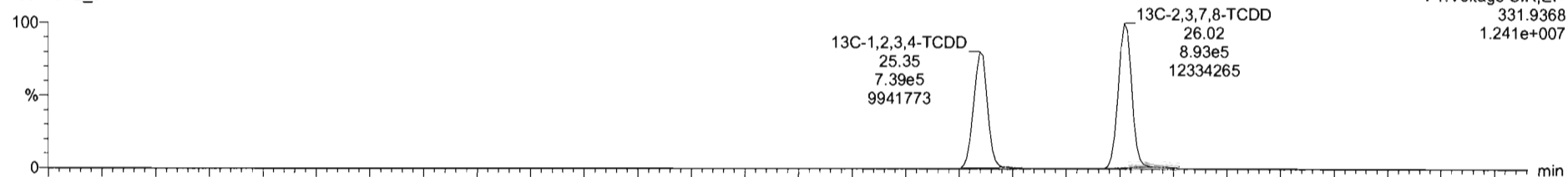
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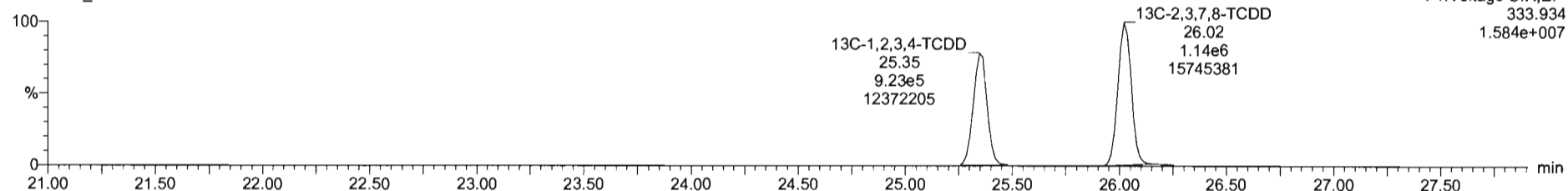


13C-1,2,3,4-TCDD

200429R2_6



200429R2_6



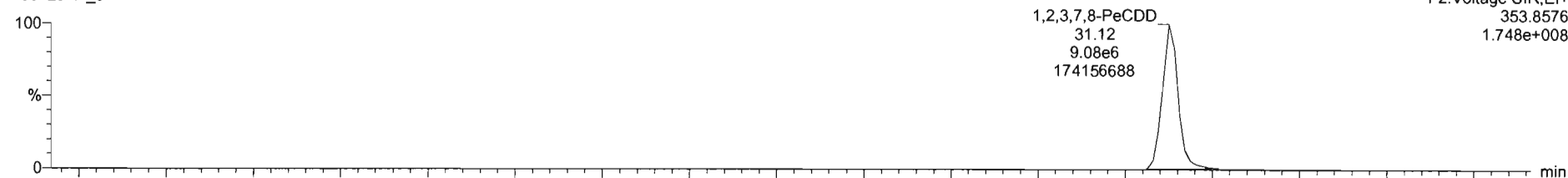
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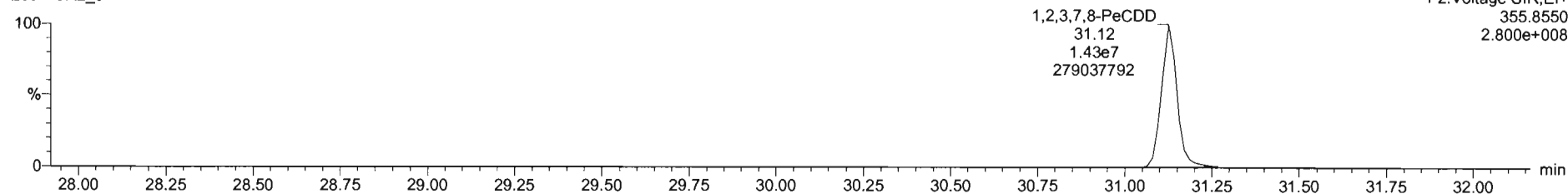
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1,2,3,7,8-PeCDD

200429R2_6

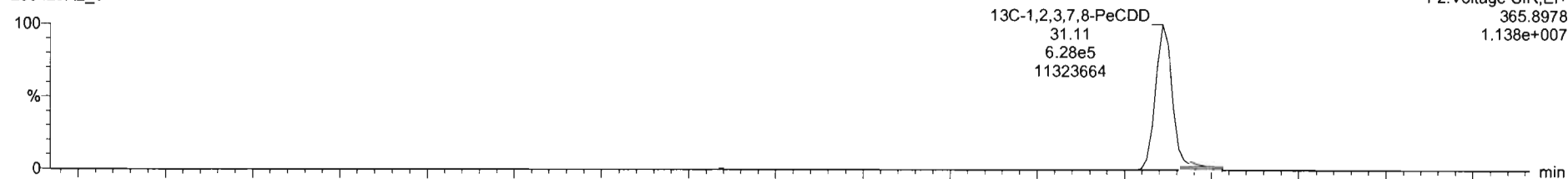


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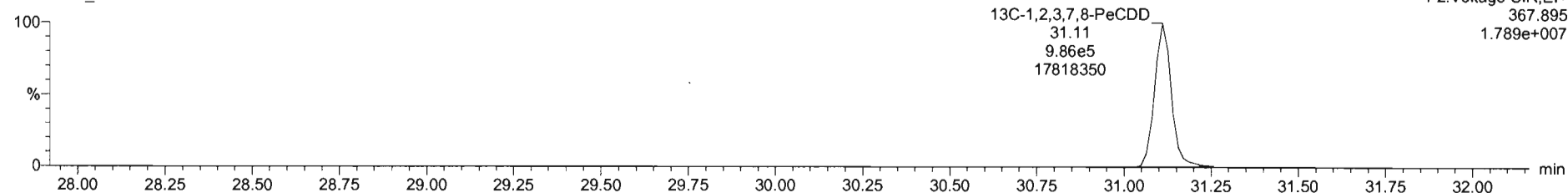


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200429R2_6



200429R2_6



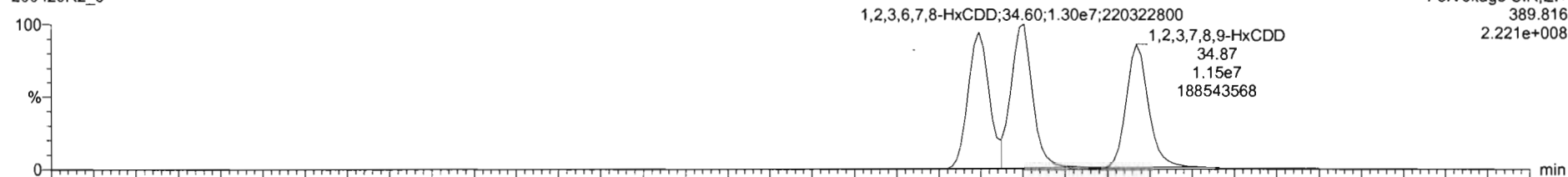
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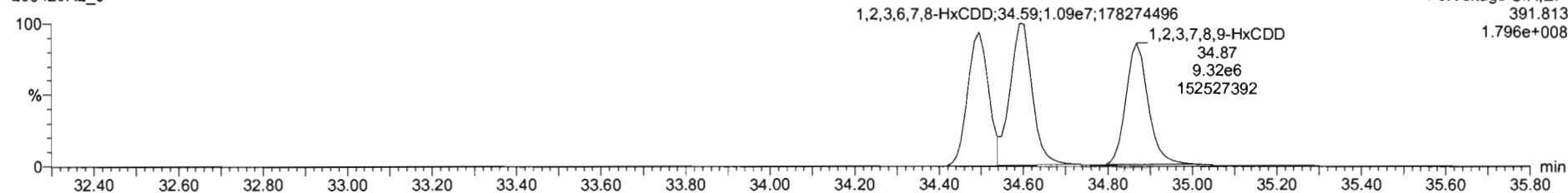
1,2,3,4,7,8-HxCDD

200429R2_6



F3:Voltage SIR,EI+
389.816
2.221e+008

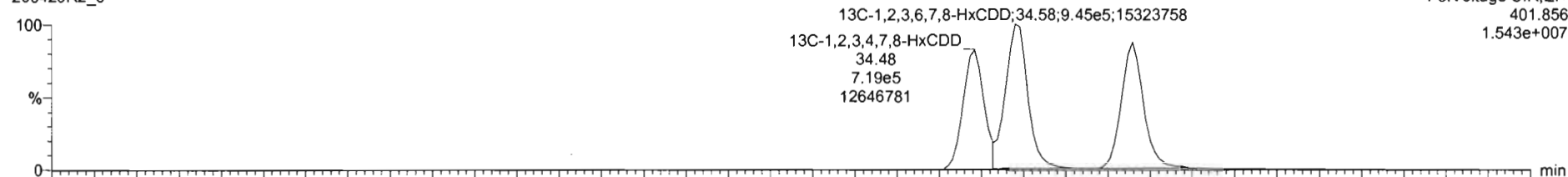
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F3:Voltage SIR,EI+
391.813
1.796e+008

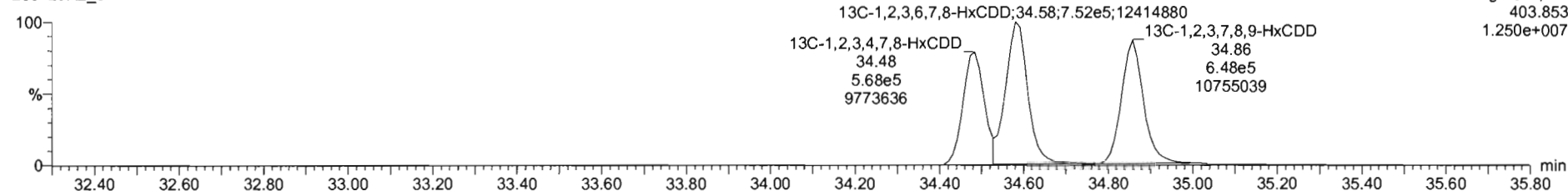
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200429R2_6



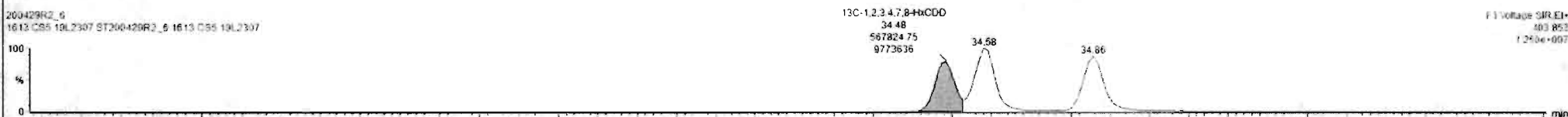
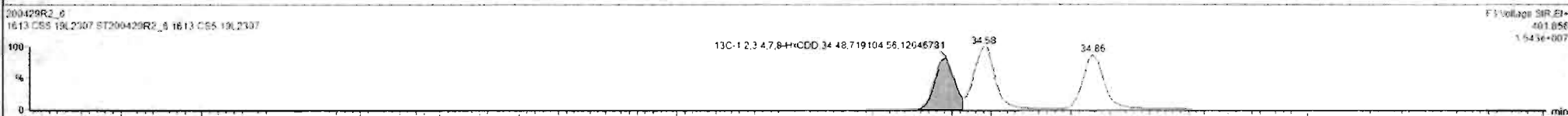
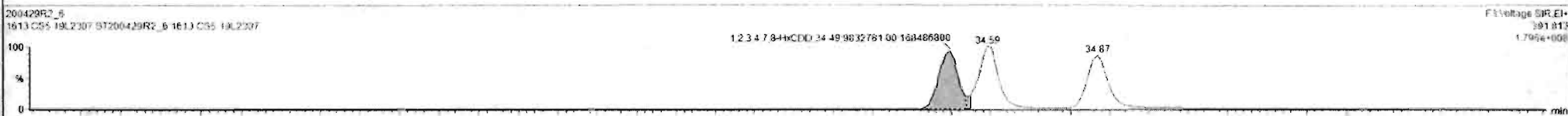
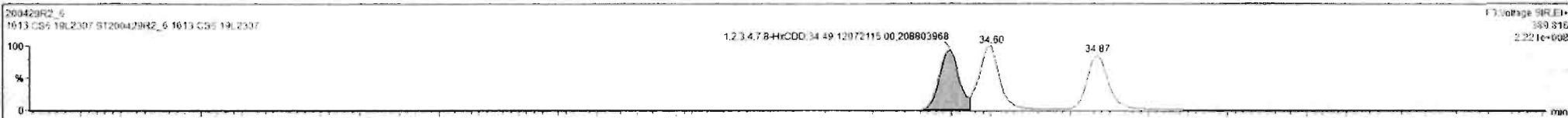
F3:Voltage SIR,EI+
401.856
1.543e+007

200429R2_6



F3:Voltage SIR,EI+
403.853
1.250e+007

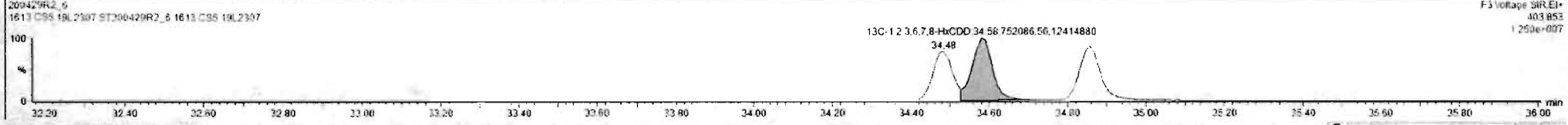
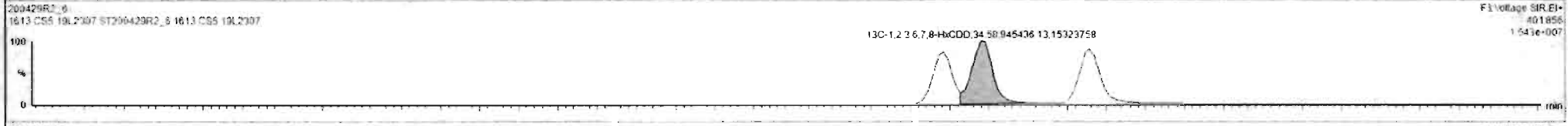
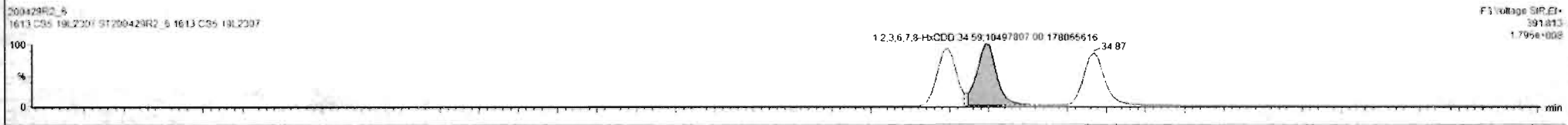
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2	1,2,3,7,8-PeCDD	31.13	0.634	NO	2.3414e7	1.6142e6	1500.000	2.6	5.51	0.942	0.0516
3	1,2,3,4,7,8-HxCDD	34.48	1.228	NO	2.1905e7	1.2269e6	1000.000	6.6	6.62	1.08	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.237	NO	2.3486e7	1.6975e6	1500.000	0.9	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.213	NO	2.0602e7	1.4580e6	1500.000	4.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.37	1.019	NO	1.6010e7	1.1280e6	1500.000	5.6	8.92	0.956	0.0622
7	OCDD	41.34	0.887	NO	3.3871e7	2.3135e6	2000.000	4.8	7.57	0.633	0.0707
8	2,3,7,8-TCDF	25.05	0.753	NO	7.1946e6	2.9106e6	300.000	4.7	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.51	1.560	NO	3.5628e7	2.5822e6	1500.000	1.5	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.81	1.542	NO	3.6618e7	2.5077e6	1500.000	0.7	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.83	1.189	NO	2.3482e7	1.7670e6	1500.000	4.4	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.75	1.189	NO	2.5241e7	1.9123e6	1500.000	0.7	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.33	1.190	NO	2.4775e7	1.7418e6	1500.000	2.9	7.60	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.196	NO	1.9813e7	1.4696e6	1500.000	4.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.96	0.992	NO	1.8927e7	1.3725e6	1500.000	5.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.94	0.991	NO	1.4705e7	8.6492e5	1500.000	6.5	6.62	1.01	0.0670
17	OCDF	41.52	0.867	NO	2.1636e7	2.6296e6	3000.000	4.4	7.16	0.802	0.0575



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200429R2_6 CAP NUM

#	Name	RT	RA	yht	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
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2	1,2,3,7,8-PeCDD	31.13	0.634	NO	2.3414e7	1.6142e6	1500.000	2.6	5.51	0.942	0.9519
3	1,2,3,4,7,8-HxCDD	34.49	1.228	NO	2.1905e7	1.2669e6	1500.000	6.6	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.237	NO	2.3489e7	1.6075e6	1500.000	0.8	6.53	0.915	0.9592
5	1,2,3,7,8,9-HxCDD	34.67	1.233	NO	2.0602e7	1.4580e6	1500.000	4.0	7.64	0.915	0.9690
6	1,2,3,4,6,7,8-HpCDD	38.37	1.019	NO	1.6010e7	1.1360e6	1500.000	5.6	6.93	0.896	0.9622
7	OCDD	41.34	0.887	NO	3.3271e7	2.3135e6	3000.000	4.8	7.57	0.933	0.9707
8	1,2,7,8-TCDF	25.05	0.753	NO	7.1949e6	2.9106e6	300.000	4.7	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.560	NO	3.5938e7	2.5822e6	1500.000	1.9	5.86	0.910	0.9533
10	1,2,3,4,7,8-HxCDF	30.81	1.542	NO	3.6618e7	3.5077e6	1500.000	0.7	4.96	0.966	0.9481
11	1,2,3,4,7,8-HxCDF	33.63	1.190	NO	2.3482e7	1.7070e6	1500.000	4.4	7.59	0.878	0.9666
12	1,2,3,6,7,8-HxCDF	33.75	1.189	NO	2.5241e7	1.9123e6	1500.000	0.7	7.23	0.874	0.9632
13	1,2,3,4,6,7,8-HpCDF	34.33	1.190	NO	2.4775e7	1.7418e6	1500.000	2.9	7.69	0.932	0.9709
14	1,2,3,7,8,9-HxCDF	35.21	1.196	NO	1.9613e7	1.4696e6	1500.000	4.0	5.96	0.864	0.9517
15	1,2,3,4,6,7,8-HpCDF	36.96	0.992	NO	1.6927e7	1.2725e6	1500.000	5.5	7.54	0.871	0.9657
16	1,2,3,4,7,8,9-HpCDF	38.94	0.993	NO	1.4205e7	8.6492e5	1500.000	6.5	6.62	1.01	0.0670
17	OCDF	41.52	0.887	NO	2.3036e7	2.6295e6	3000.000	4.4	7.16	0.802	0.9575



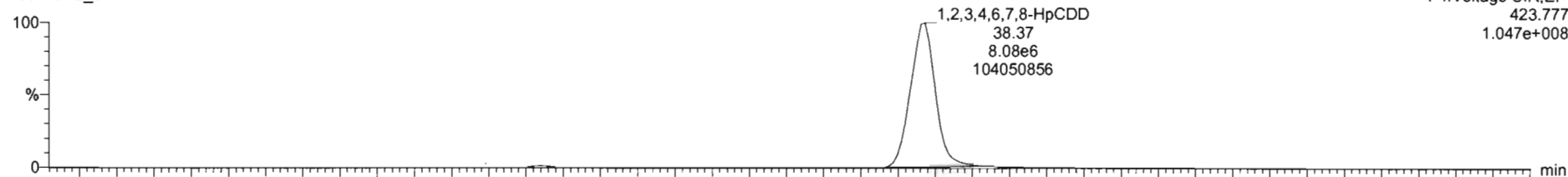
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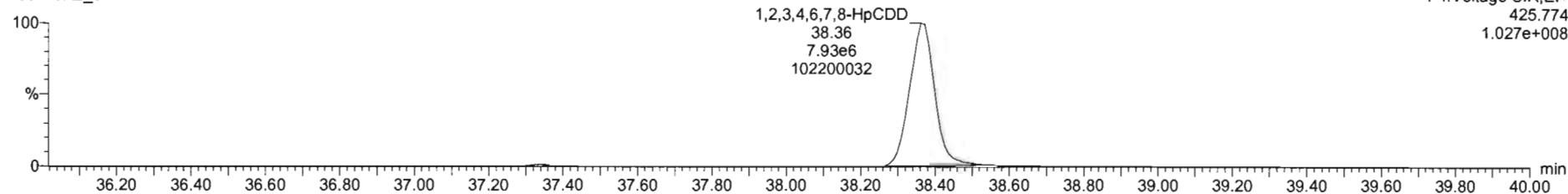
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1,2,3,4,6,7,8-HpCDD

200429R2_6

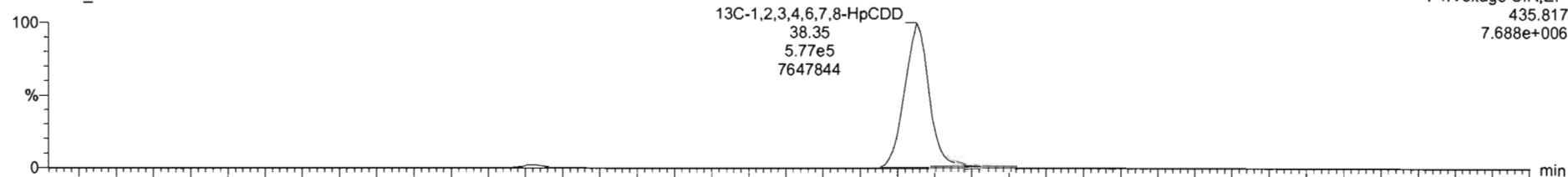


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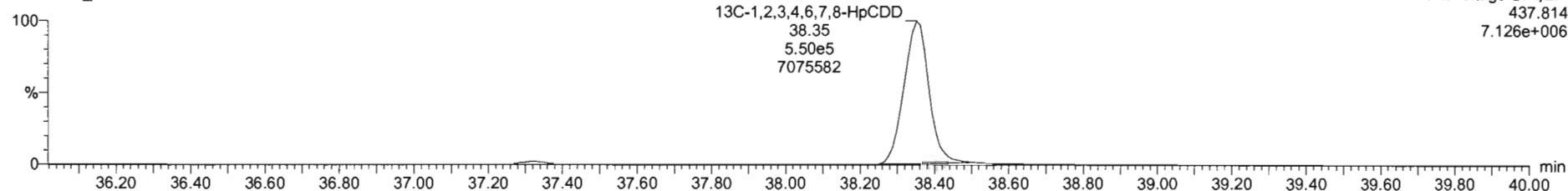


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200429R2_6



200429R2_6



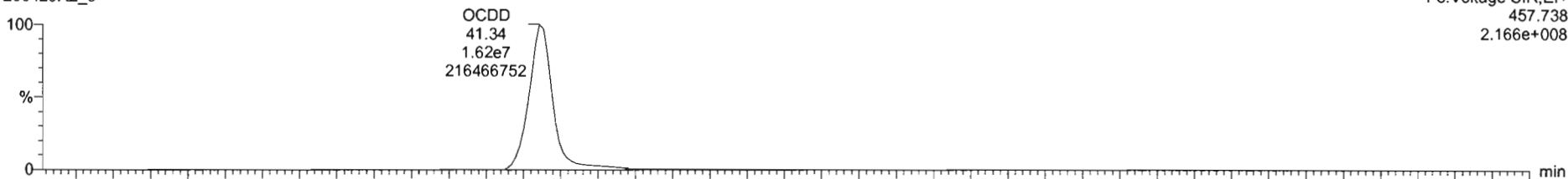
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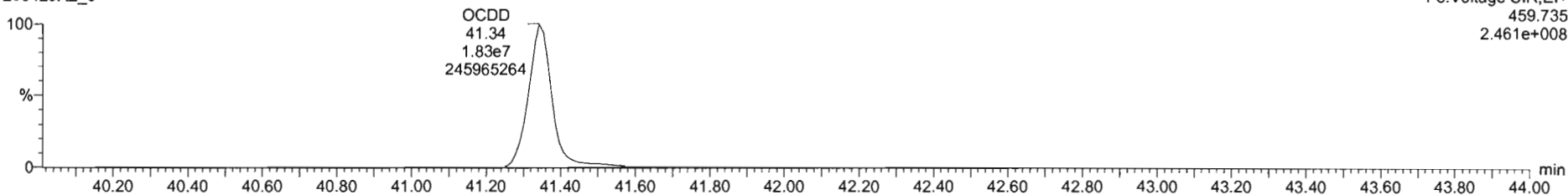
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OCDD

200429R2_6

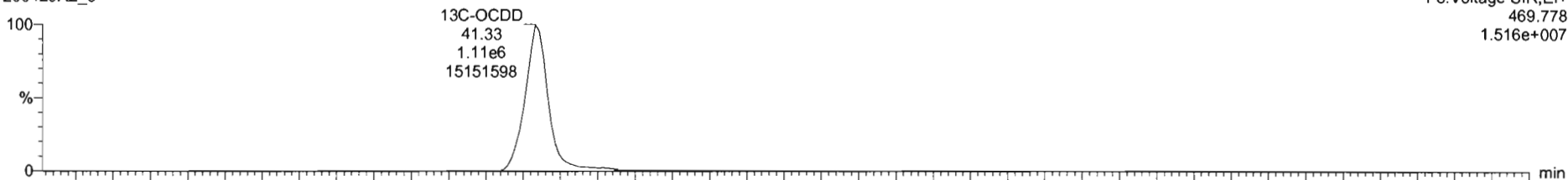


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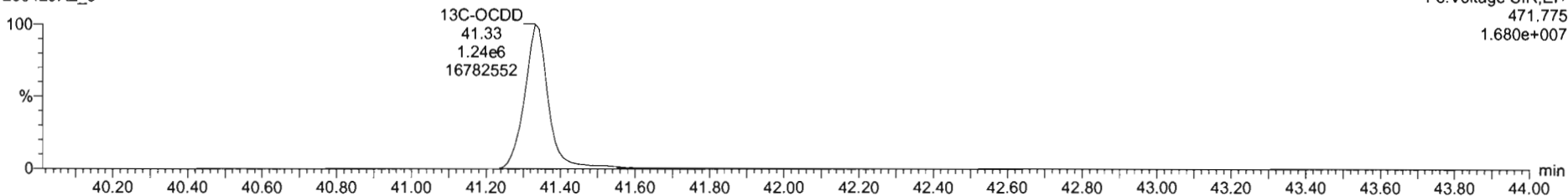


13C-OCDD

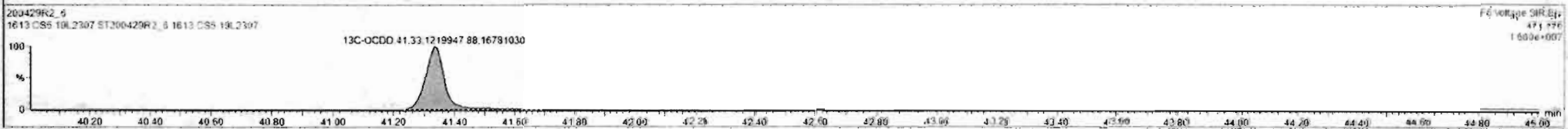
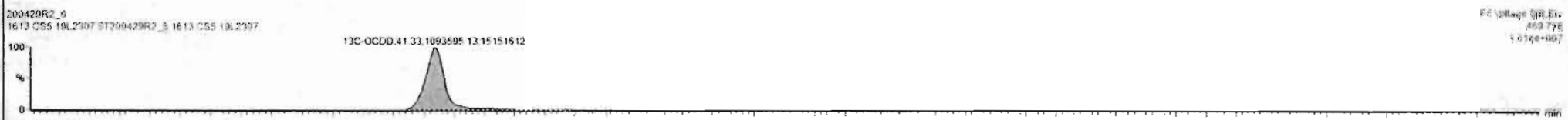
200429R2_6



200429R2_6



#	Name	RT	RA	Y/N	Area	IS Area	Std. Conc	%Dev	%RSD	RRF U...	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.754	NO	6.0624e6	2.0210e6	300.000	5.4	5.15	0.547	0.0567
2	1,2,3,7,8-PeCDD	31.13	0.634	NO	2.3414e7	1.6142e6	1500.000	2.6	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.43	1.220	NO	2.1905e7	1.2869e6	1500.000	6.6	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.237	NO	2.3486e7	1.6975e6	1500.000	0.9	6.53	0.916	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.233	NO	2.0602e7	1.4580e6	1500.000	4.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.37	1.019	NO	1.6010e7	1.1260e6	1500.000	5.6	6.93	0.656	0.0422
7	OCDD	41.34	0.697	NO	3.3671e7	2.3135e6	3000.000	4.6	7.57	0.933	0.0707
8	2,2,7,8-TCDF	25.09	0.753	NO	7.1646e6	2.9106e6	300.000	4.7	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.560	NO	3.5528e7	2.5822e6	1500.000	1.9	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.81	1.542	NO	3.6618e7	2.5077e6	1500.000	0.7	4.85	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.83	1.190	NO	2.3482e7	1.7070e6	1500.000	4.4	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.75	1.189	NO	2.5241e7	1.9123e6	1500.000	0.7	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.190	NO	2.4775e7	1.7418e6	1500.000	2.9	7.60	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.195	NO	1.9613e7	1.4696e6	1500.000	4.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.96	0.992	NO	1.8627e7	1.3725e6	1500.000	5.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.54	0.993	NO	1.4305e7	8.6492e5	1500.000	6.5	6.62	1.01	0.0670
17	OCDF	41.52	0.667	NO	3.3036e7	2.6295e6	3000.000	4.4	7.16	0.802	0.0575



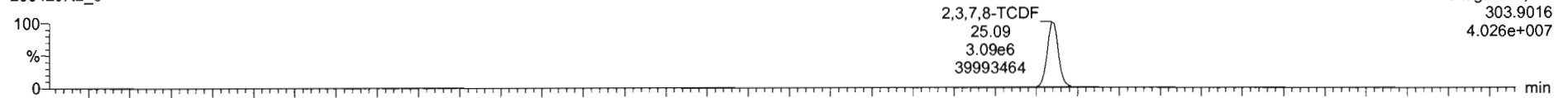
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

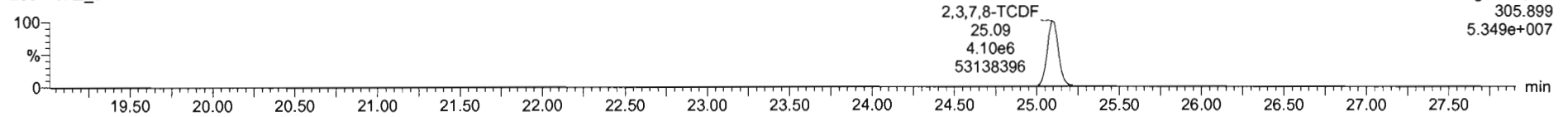
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2,3,7,8-TCDF

200429R2_6

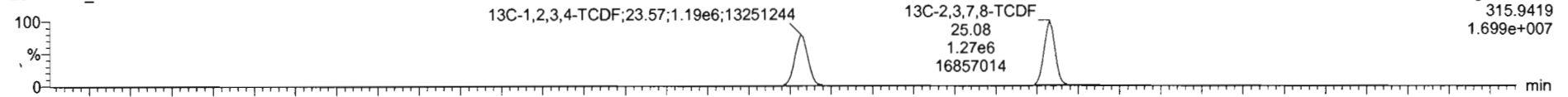


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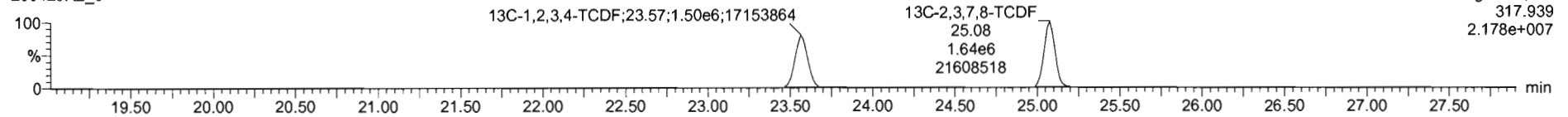


13C-2,3,7,8-TCDF

200429R2_6

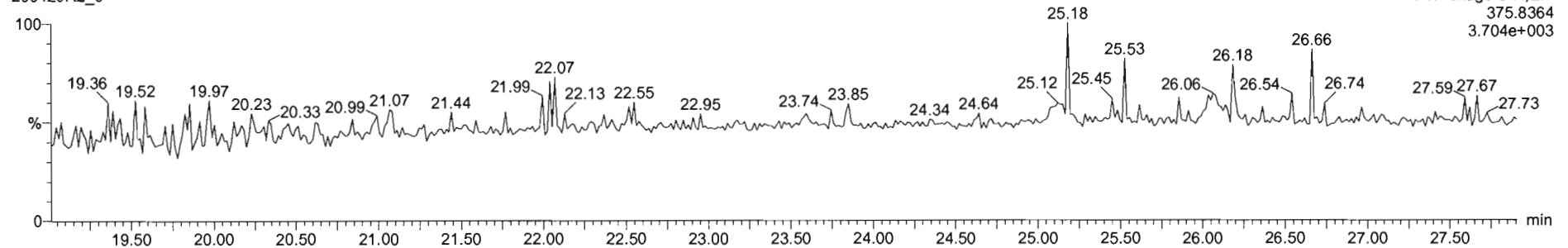


200429R2_6



DPE1

200429R2_6



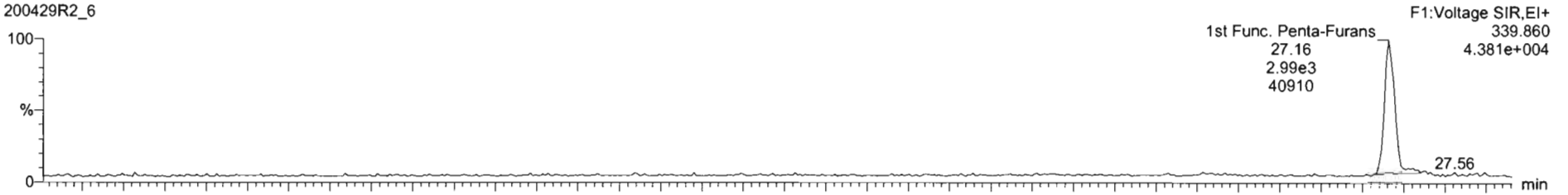
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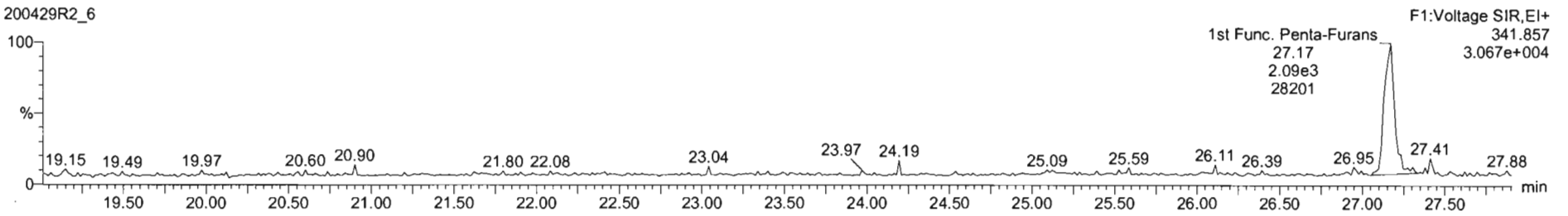
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1st Func. Penta-Furans

200429R2_6

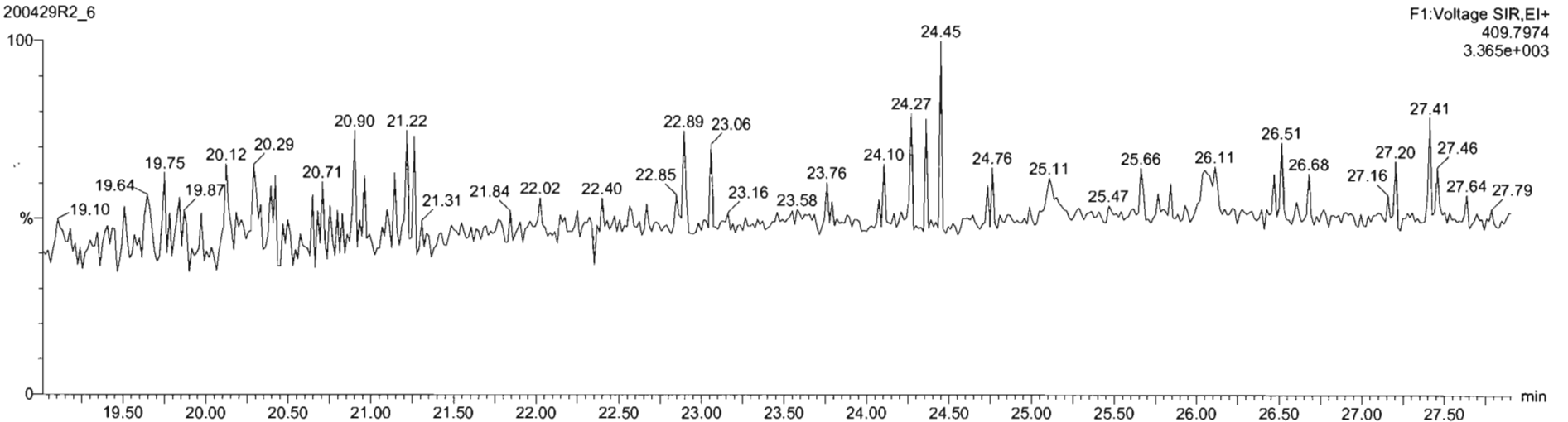


200429R2_6



DPE6

200429R2_6



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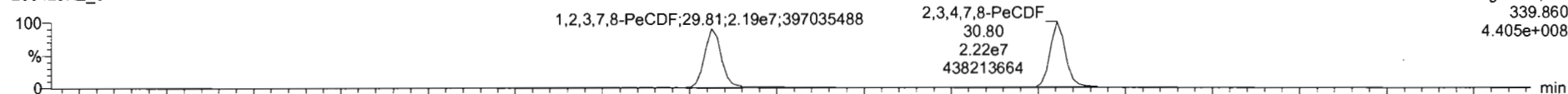
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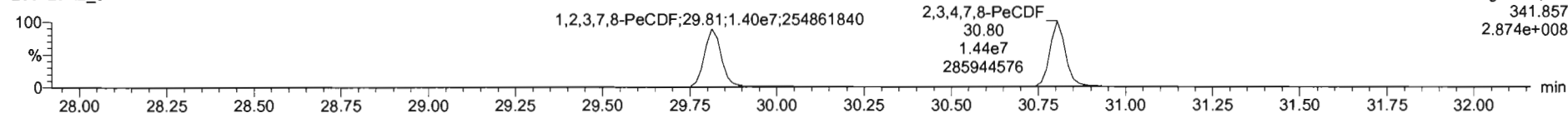
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1,2,3,7,8-PeCDF

200429R2_6

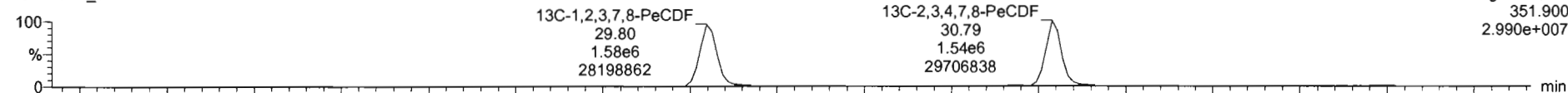


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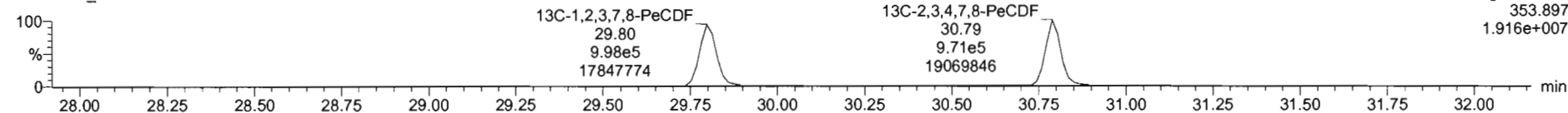


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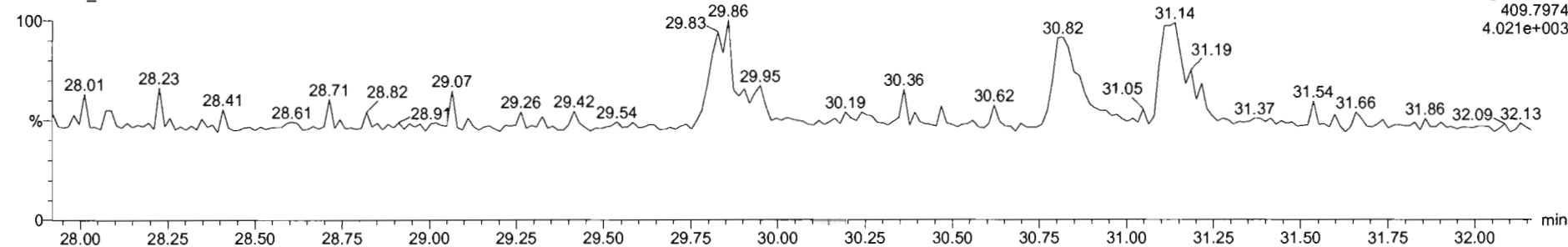


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DPE2

200429R2_6



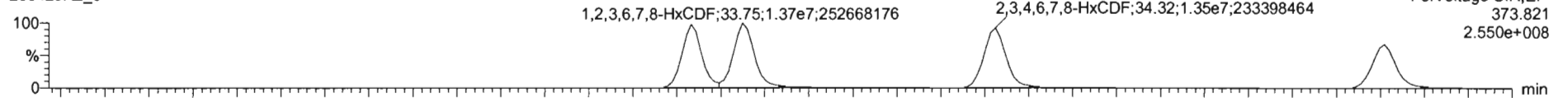
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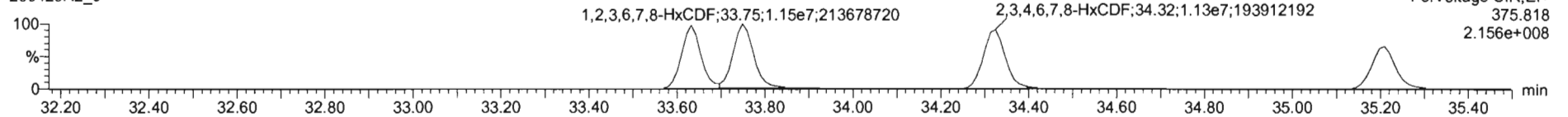
1,2,3,4,7,8-HxCDF

200429R2_6



F3: Voltage SIR, EI+
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2.550e+008

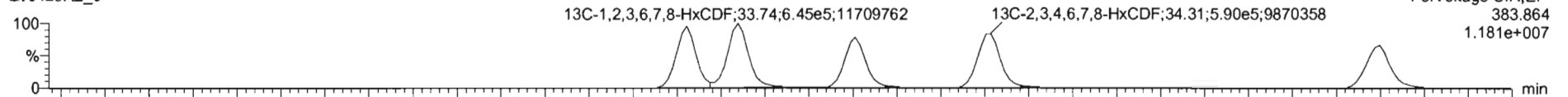
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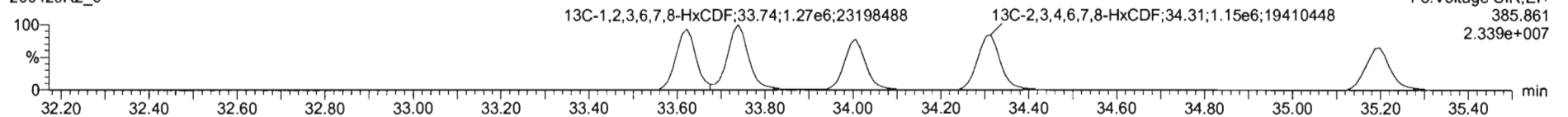
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200429R2_6



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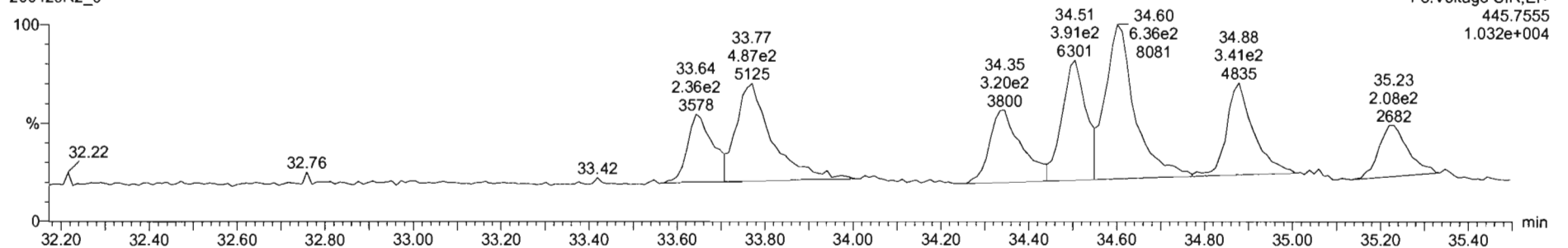
200429R2_6



F3: Voltage SIR, EI+
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DPE3

200429R2_6



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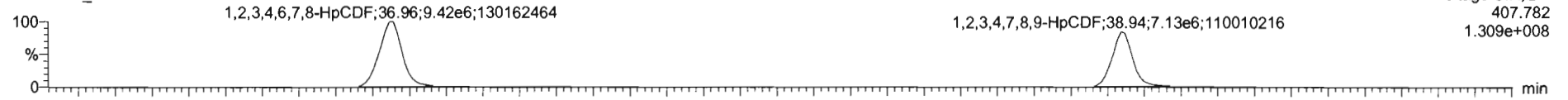
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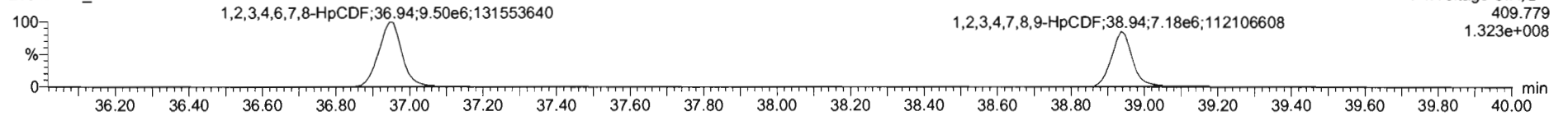
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1,2,3,4,6,7,8-HpCDF

200429R2_6

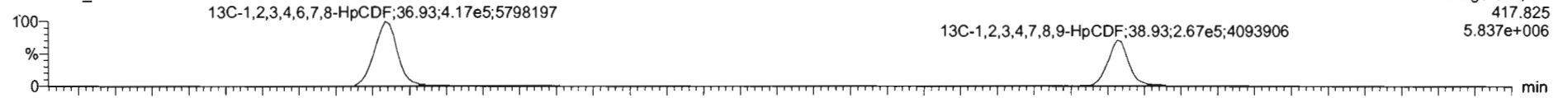


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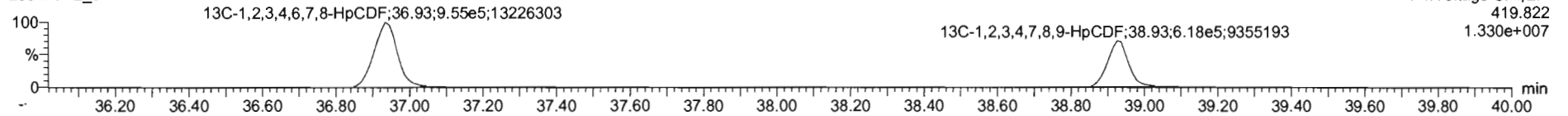


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200429R2_6

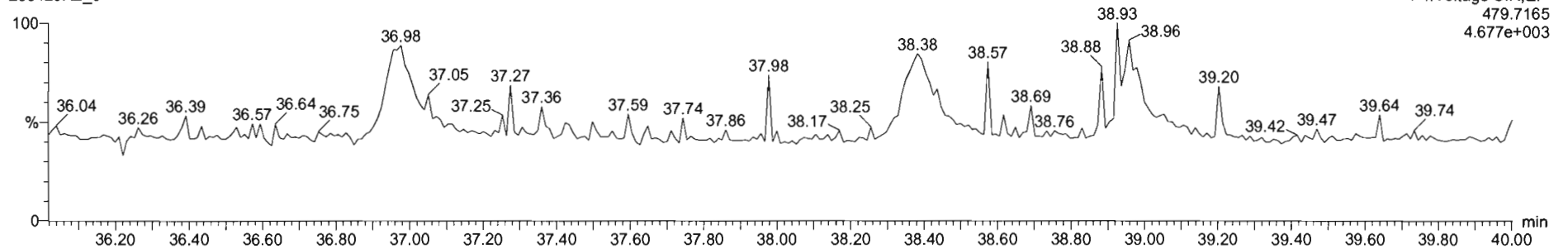


200429R2_6



DPE4

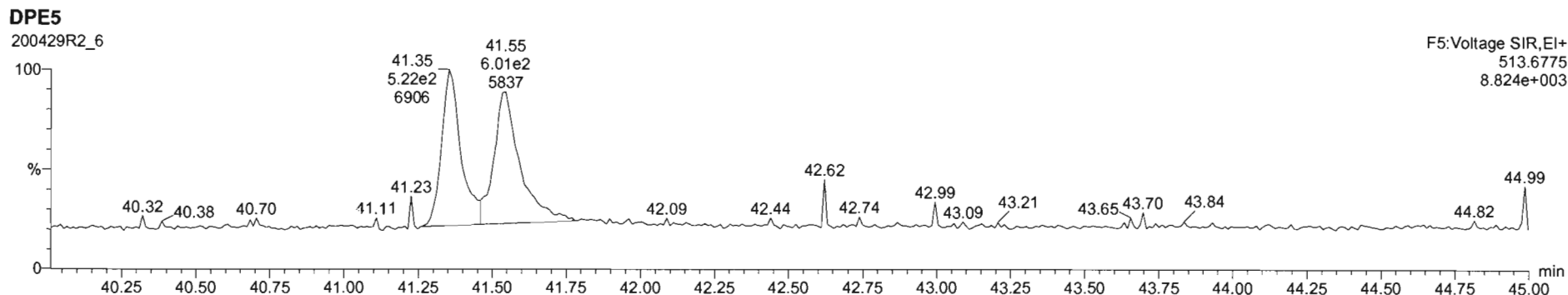
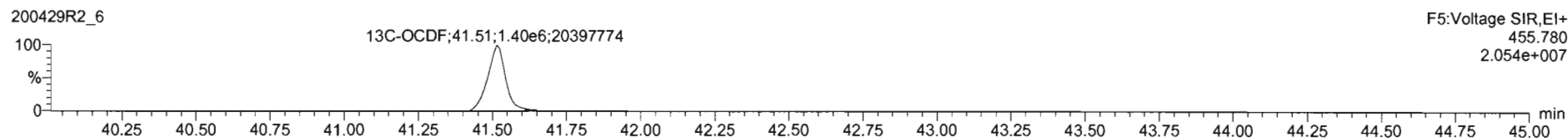
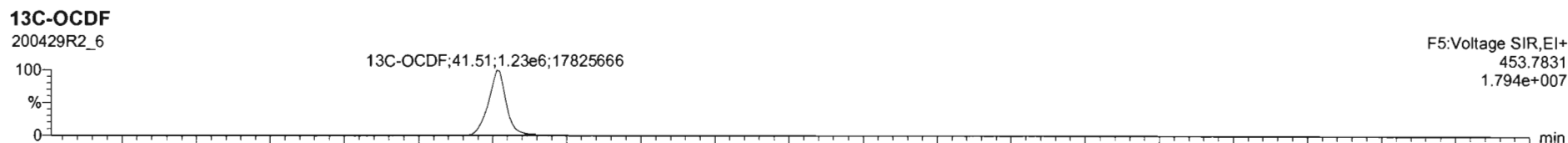
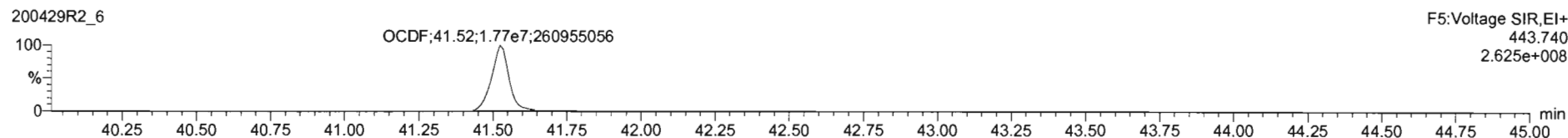
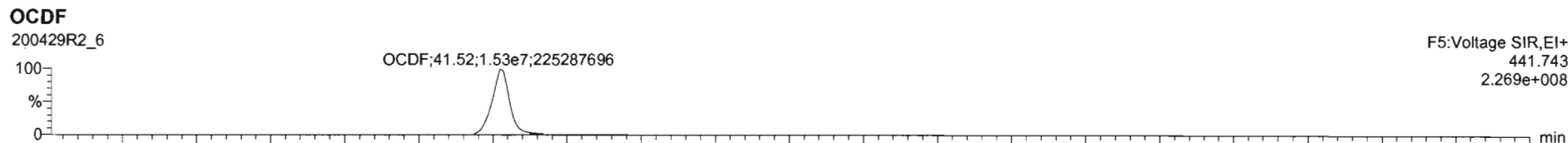
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

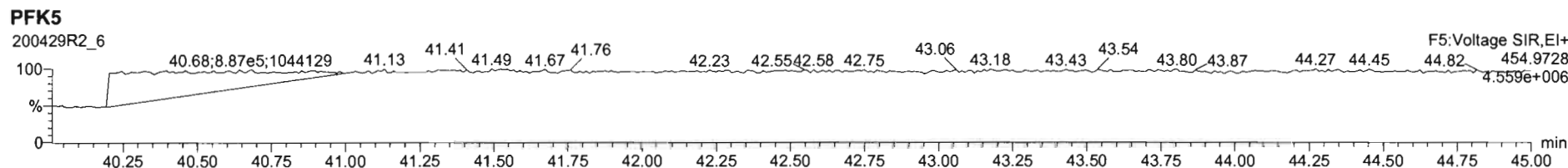
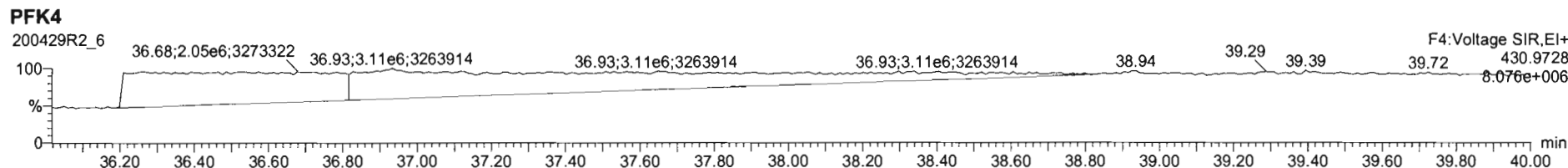
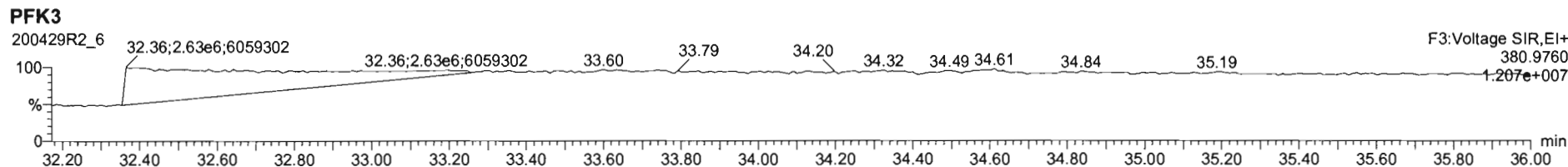
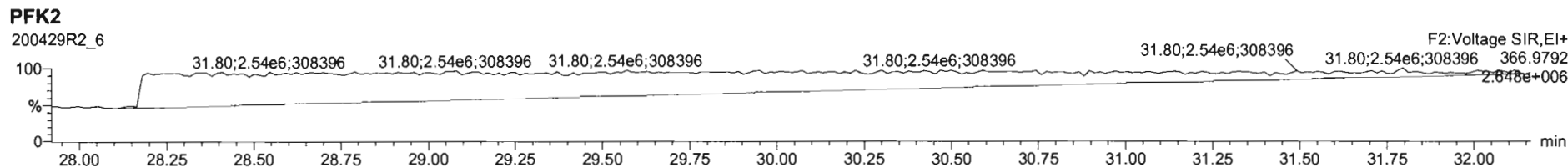
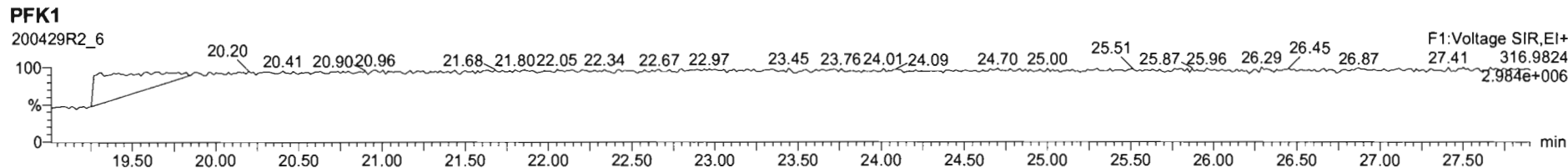


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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307



Dataset: U:\VG12.PRO\Results\200429R2\200429R2-8.qld

Last Altered: Thursday, April 30, 2020 8:35:25 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 8:36:35 AM Pacific Daylight Time

GRB 04/30/2020

CT 04/30/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200429R2_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2_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	1.63e5	0.76	NO	0.947	1.000	26.081	26.07	1.001	1.001	11.205	112	0.0427	11.2
2	2 1,2,3,7,8-PeCDD	5.70e5	0.63	NO	0.942	1.000	31.147	31.14	1.001	1.000	56.141	112	0.0577	56.1
3	3 1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.06	1.000	34.505	34.51	1.000	1.000	58.046	116	0.102	58.0
4	4 1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.915	1.000	34.591	34.61	1.000	1.001	57.430	115	0.105	57.4
5	5 1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.915	1.000	34.878	34.88	1.000	1.000	58.193	116	0.120	58.2
6	6 1,2,3,4,6,7,8-HpCDD	3.49e5	1.04	NO	0.898	1.000	38.373	38.38	1.000	1.001	56.727	113	0.145	56.7
7	7 OCDD	6.53e5	0.88	NO	0.933	1.000	41.343	41.35	1.000	1.000	116.94	117	0.107	117
8	8 2,3,7,8-TCDF	1.99e5	0.73	NO	0.787	1.000	25.117	25.12	1.001	1.001	11.247	112	0.0306	11.2
9	9 1,2,3,7,8-PeCDF	9.00e5	1.54	NO	0.910	1.000	29.834	29.83	1.001	1.001	55.836	112	0.0810	55.8
10	10 2,3,4,7,8-PeCDF	1.00e6	1.53	NO	0.966	1.000	30.836	30.82	1.001	1.000	60.816	122	0.0765	60.8
11	11 1,2,3,4,7,8-HxCDF	5.51e5	1.21	NO	0.878	1.000	33.632	33.64	1.000	1.000	55.918	112	0.109	55.9
12	12 1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.874	1.000	33.760	33.76	1.000	1.000	56.451	113	0.107	56.5
13	13 2,3,4,6,7,8-HxCDF	5.78e5	1.19	NO	0.922	1.000	34.359	34.33	1.001	1.000	56.186	112	0.118	56.2
14	14 1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.864	1.000	35.209	35.22	1.000	1.000	55.290	111	0.162	55.3
15	15 1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.871	1.000	36.982	36.97	1.001	1.001	54.863	110	0.153	54.9
16	16 1,2,3,4,7,8,9-HpCDF	2.99e5	0.98	NO	1.01	1.000	38.947	38.95	1.000	1.000	57.162	114	0.204	57.2
17	17 OCDF	6.13e5	0.86	NO	0.802	1.000	41.525	41.53	1.000	1.000	115.17	115	0.126	115
18	18 13C-2,3,7,8-TCDD	1.53e6	0.79	NO	1.16	1.000	26.046	26.05	1.026	1.027	91.114	91.1	0.0954	
19	19 13C-1,2,3,7,8-PeCDD	1.08e6	0.64	NO	0.847	1.000	31.141	31.13	1.227	1.227	87.564	87.6	0.0958	
20	20 13C-1,2,3,4,7,8-HxCDD	7.95e5	1.29	NO	0.750	1.000	34.496	34.49	1.014	1.014	88.379	88.4	0.183	
21	21 13C-1,2,3,6,7,8-HxCDD	1.03e6	1.29	NO	0.963	1.000	34.608	34.59	1.017	1.017	89.585	89.6	0.142	
22	22 13C-1,2,3,7,8,9-HxCDD	8.98e5	1.26	NO	0.838	1.000	34.877	34.87	1.025	1.025	89.402	89.4	0.164	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.86e5	1.10	NO	0.641	1.000	38.367	38.36	1.128	1.128	89.184	89.2	0.183	
24	24 13C-OCDD	1.20e6	0.86	NO	0.586	1.000	41.360	41.34	1.216	1.215	170.31	85.2	0.144	
25	25 13C-2,3,7,8-TCDF	2.25e6	0.78	NO	1.03	1.000	25.104	25.09	0.989	0.989	92.189	92.2	0.134	
26	26 13C-1,2,3,7,8-PeCDF	1.77e6	1.60	NO	0.845	1.000	29.829	29.81	1.176	1.175	88.893	88.9	0.195	
27	27 13C-2,3,4,7,8-PeCDF	1.71e6	1.60	NO	0.814	1.000	30.822	30.81	1.215	1.214	88.919	88.9	0.203	
28	28 13C-1,2,3,4,7,8-HxCDF	1.12e6	0.51	NO	1.00	1.000	33.635	33.63	0.989	0.989	93.115	93.1	0.212	
29	29 13C-1,2,3,6,7,8-HxCDF	1.26e6	0.51	NO	1.14	1.000	33.757	33.75	0.992	0.992	92.434	92.4	0.187	
30	30 13C-2,3,4,6,7,8-HxCDF	1.12e6	0.51	NO	1.02	1.000	34.326	34.33	1.009	1.009	91.031	91.0	0.208	
31	31 13C-1,2,3,7,8,9-HxCDF	9.97e5	0.51	NO	0.845	1.000	35.217	35.21	1.035	1.035	98.412	98.4	0.252	

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-8.qld

Last Altered: Thursday, April 30, 2020 8:35:25 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 8:36:35 AM Pacific Daylight Time

Name: 200429R2_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2_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	8.59e5	0.43	NO	0.771	1.000	36.948	36.94	1.086	1.086	92.960	93.0	0.284	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.17e5	0.43	NO	0.482	1.000	38.959	38.95	1.145	1.145	89.503	89.5	0.455	
34	34 13C-OCDF	1.33e6	0.88	NO	0.669	1.000	41.530	41.53	1.221	1.221	165.58	82.8	0.146	
35	35 37Cl-2,3,7,8-TCDD	1.58e5			1.10	1.000	26.076	26.07	1.028	1.027	9.8763	98.8	0.0151	
36	36 13C-1,2,3,4-TCDD	1.45e6	0.81	NO	1.00	1.000	25.350	25.38	1.000	1.000	100.00	100	0.111	
37	37 13C-1,2,3,4-TCDF	2.36e6	0.79	NO	1.00	1.000	23.560	23.59	1.000	1.000	100.00	100	0.139	
38	38 13C-1,2,3,4,6,9-HxCDF	1.20e6	0.51	NO	1.00	1.000	34.000	34.02	1.000	1.000	100.00	100	0.213	

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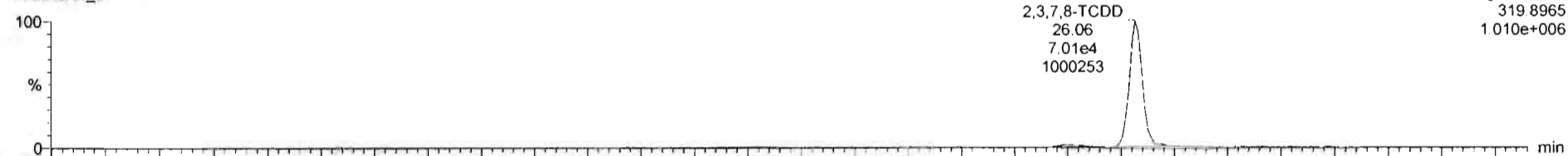
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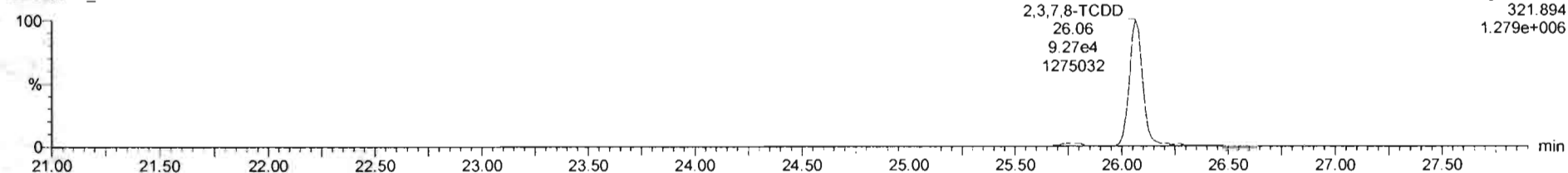
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2,3,7,8-TCDD

200429R2_8

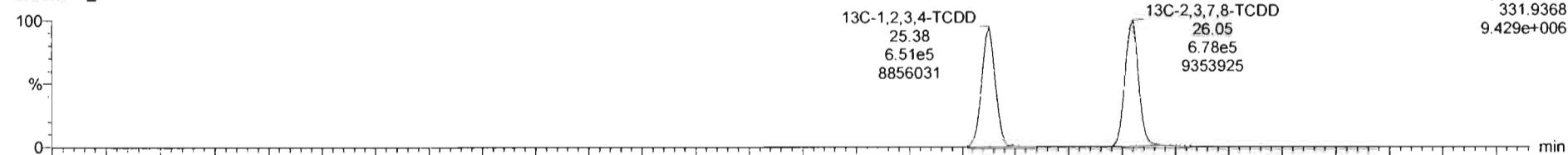


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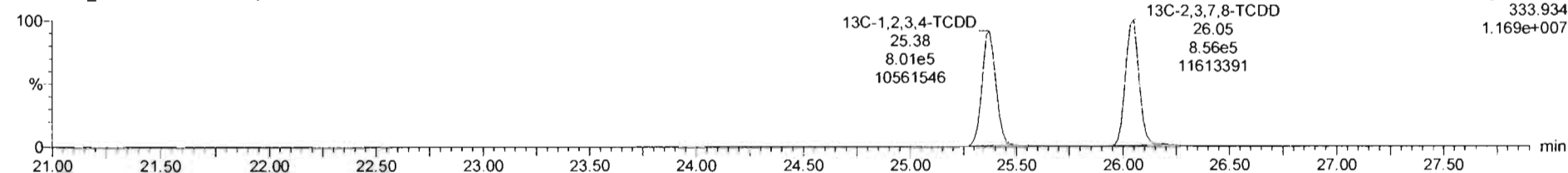


13C-2,3,7,8-TCDD

200429R2_8



200429R2_8



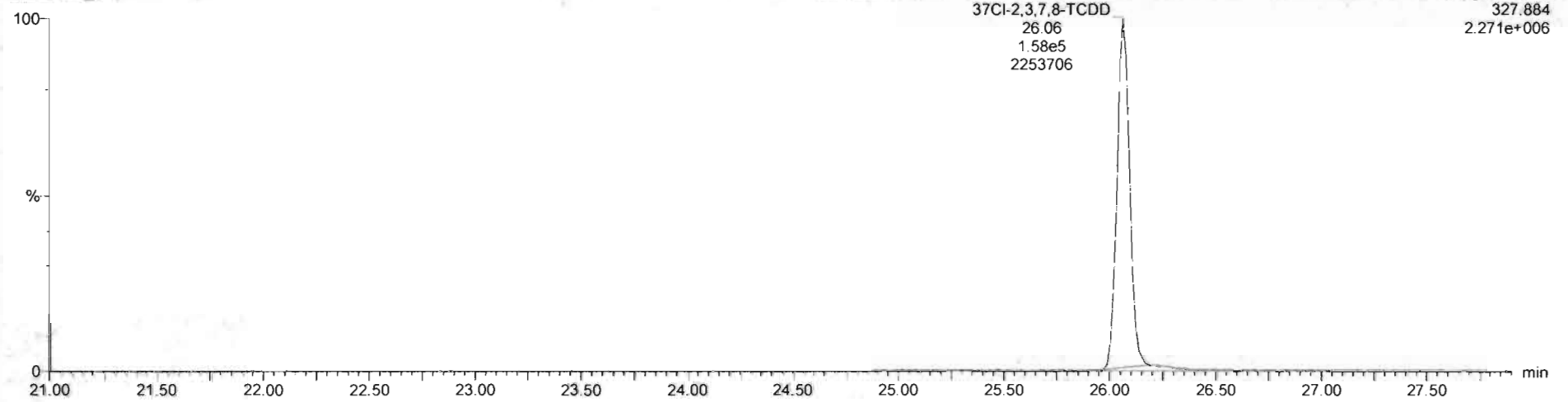
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Printed: Thursday, April 30, 2020 8:38:30 AM Pacific Daylight Time

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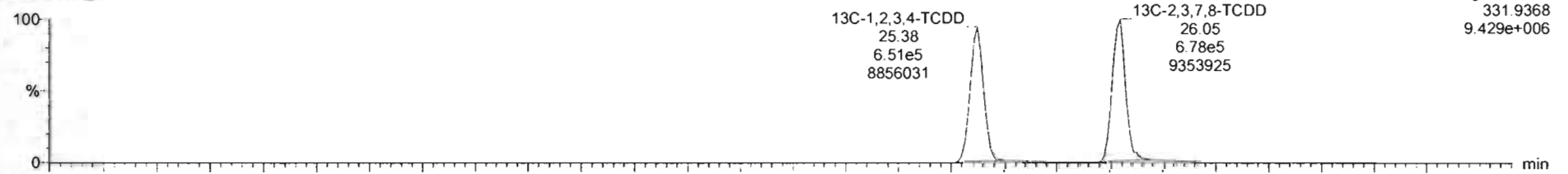
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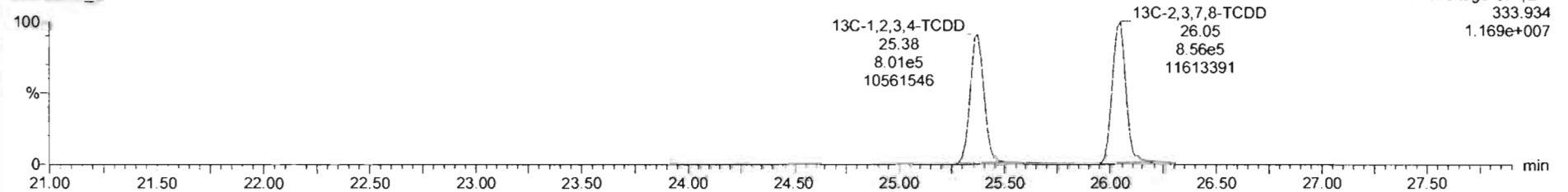


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200429R2_8



200429R2_8



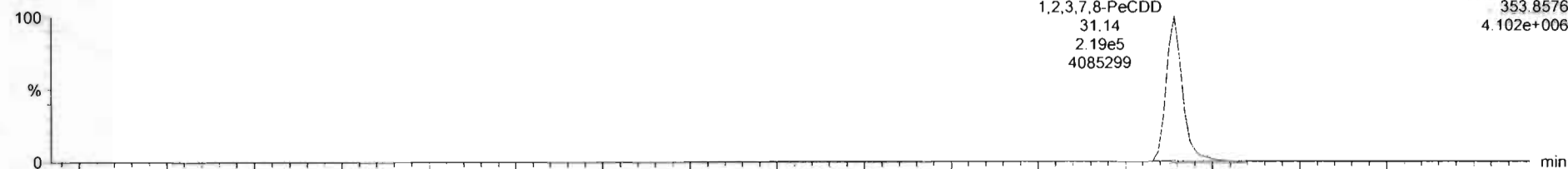
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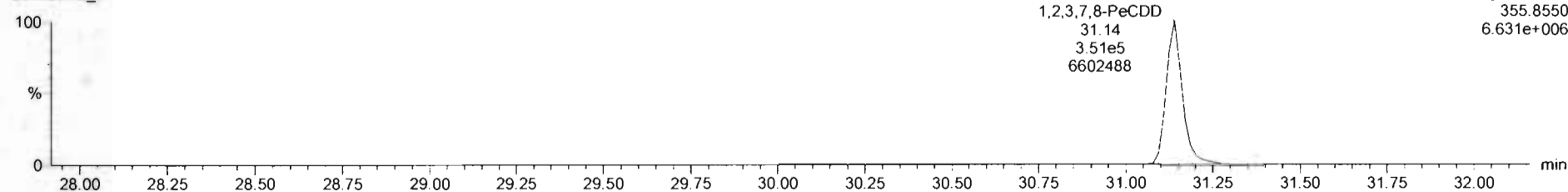
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1,2,3,7,8-PeCDD

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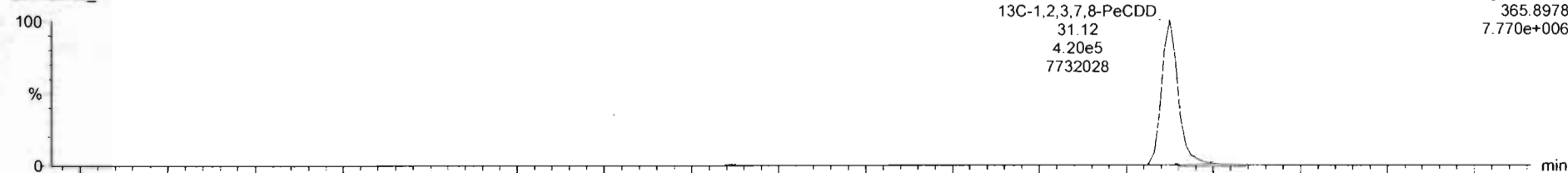


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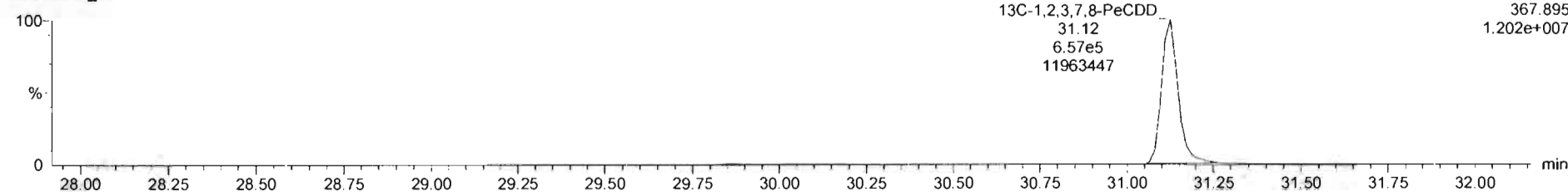


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200429R2_8



200429R2_8



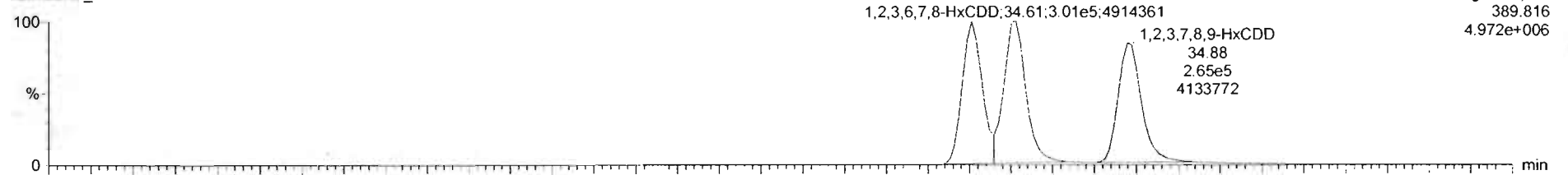
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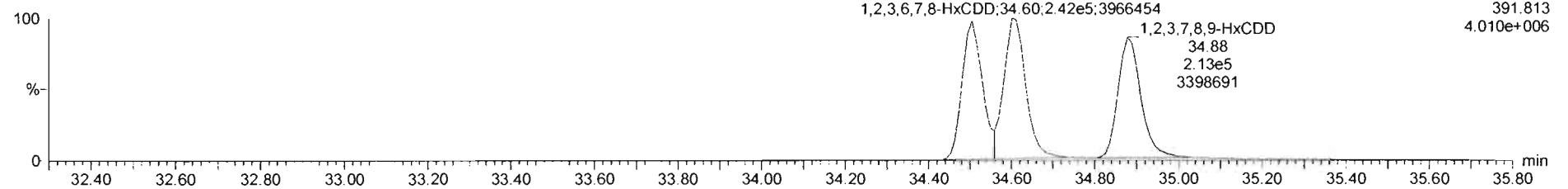
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1,2,3,4,7,8-HxCDD

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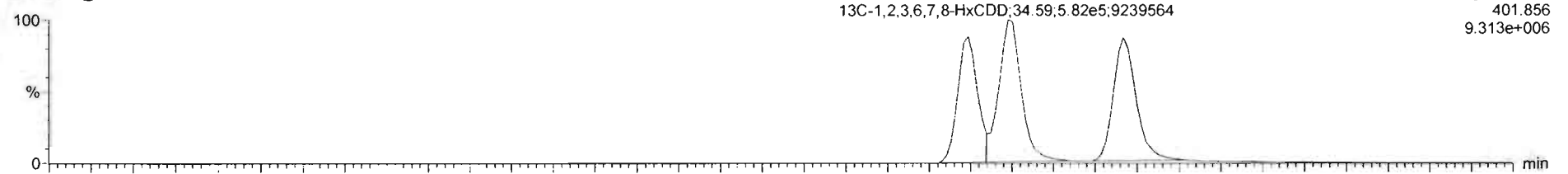


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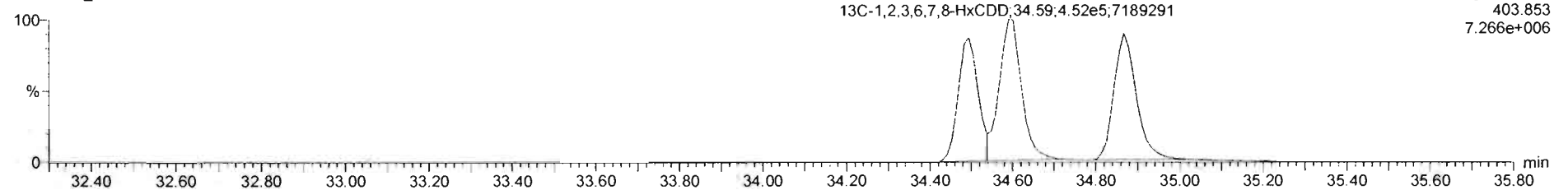


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200429R2_8



200429R2_8



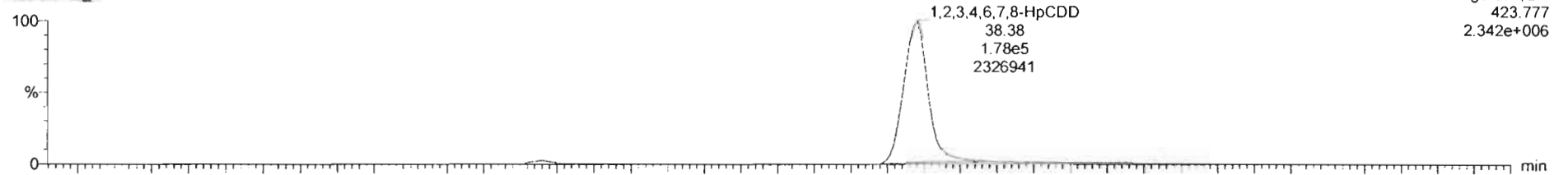
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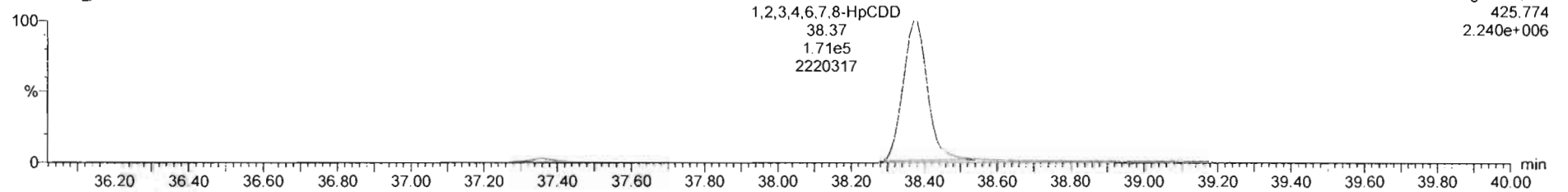
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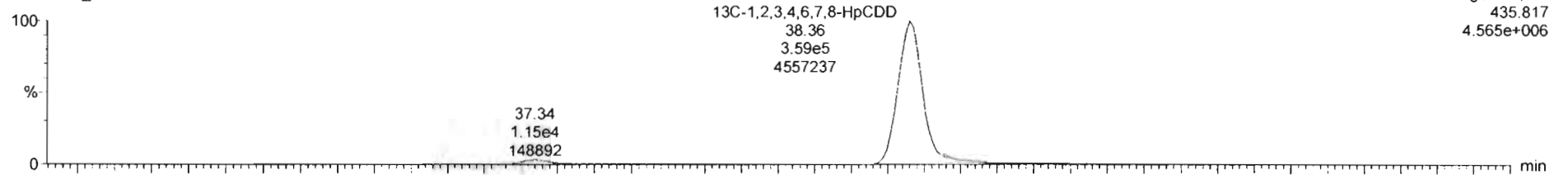


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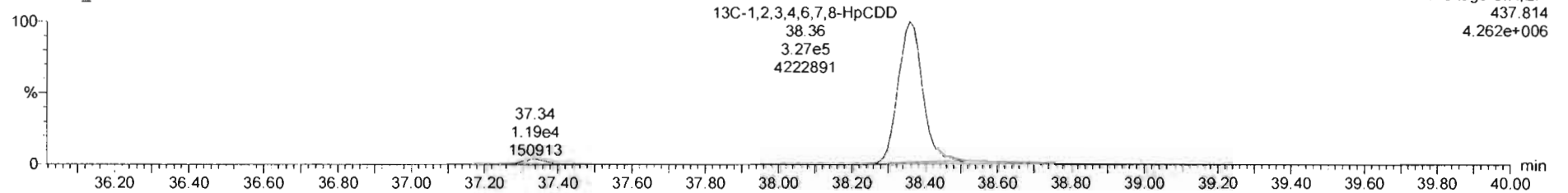


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200429R2_8



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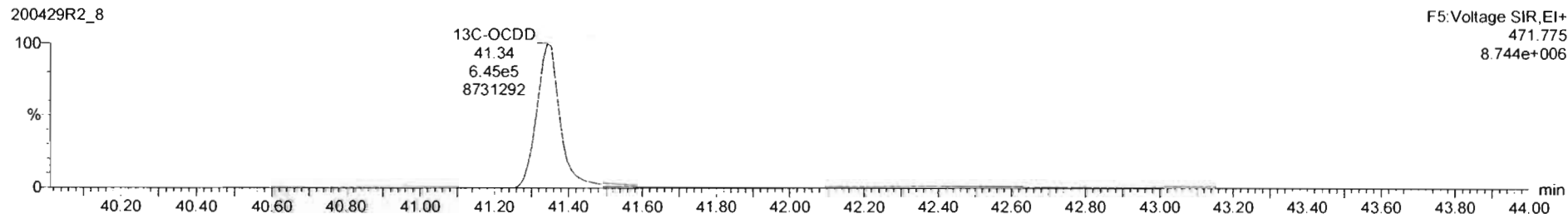
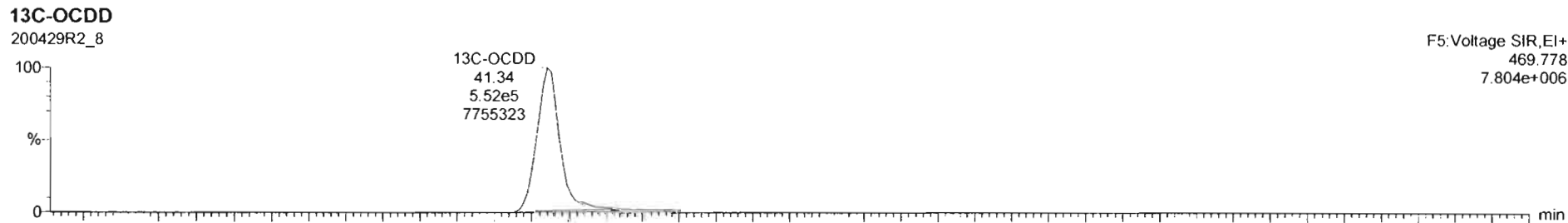
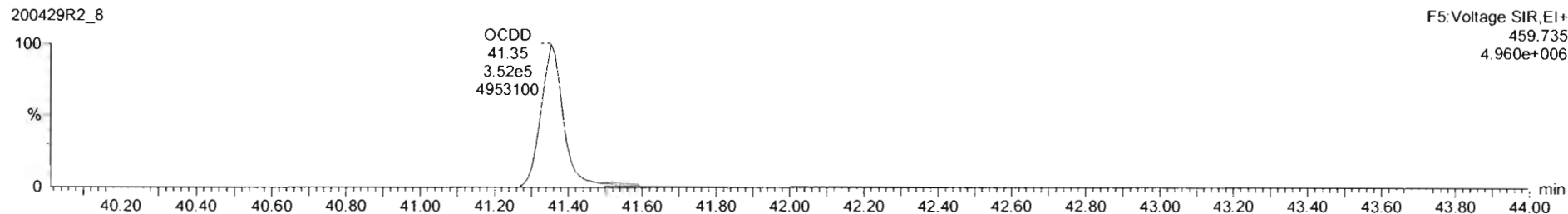
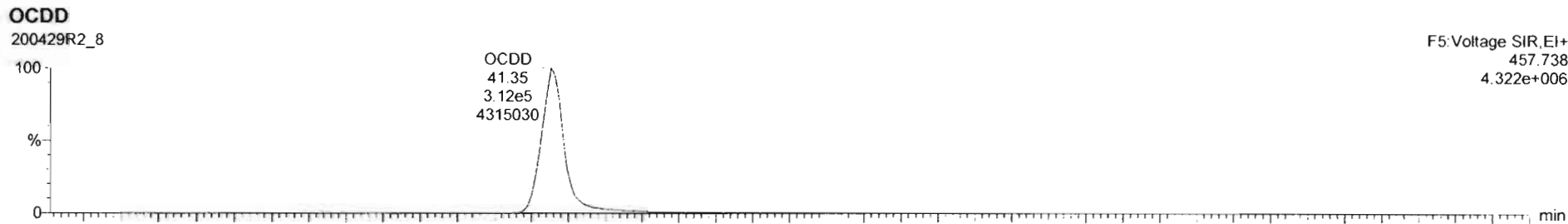


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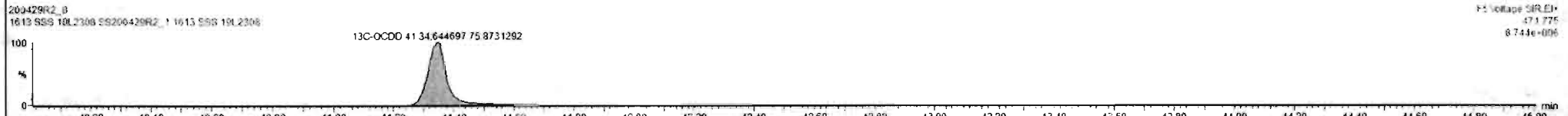
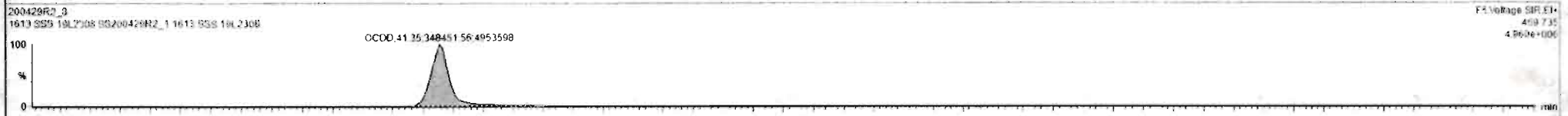
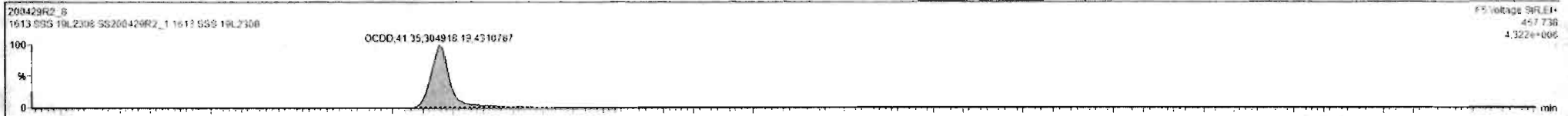
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Name: 200429R2_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308



Name	Resp	RA	inj	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	112	0.0427	11.2
2 1,2,3,7,8-PeCDD	5.70e5	0.83	NO	0.9425	1.000	31.14	1.000	56.1	112	0.0577	56.1
3 1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	56.0	116	0.102	56.0
4 1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.61	1.001	57.4	115	0.105	57.4
5 1,2,3,7,8,9-HxCDD	4.75e5	1.25	NO	0.9149	1.000	34.88	1.000	58.2	116	0.120	58.2
6 1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8919	1.000	36.38	1.001	56.7	113	0.145	56.7
7 OCDD	6.53e5	0.55	NO	0.9325	1.000	41.35	1.000	117	117	0.107	117
8 2,3,7,8-TCDF	1.99e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	112	0.0306	11.2
9 1,2,3,7,8-PeCDF	5.00e5	1.54	NO	0.9102	1.000	29.83	1.001	55.8	112	0.0810	55.8
10 2,3,4,7,8-PeCDF	1.00e6	1.53	NO	0.9664	1.000	30.82	1.000	60.8	122	0.0765	60.8
11 1,2,3,4,7,8-HxCDF	5.51e5	1.22	NO	0.8782	1.000	33.64	1.000	55.9	112	0.109	55.9
12 1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.78	1.000	56.5	113	0.107	56.5
13 2,3,4,6,7,8-HxCDF	5.78e5	1.19	NO	0.9217	1.000	34.33	1.000	56.2	112	0.118	56.2
14 1,2,3,7,8,9-HxCDF	4.75e5	1.19	NO	0.8542	1.000	35.22	1.000	55.3	111	0.152	55.3
15 1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.8712	1.000	36.97	1.001	54.9	110	0.153	54.9
16 1,2,3,4,7,8,9-HpCDF	2.95e5	0.98	NO	1.0116	1.000	36.95	1.000	57.2	114	0.204	57.2
17 OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	115	0.158	115



Custom Reporting: Select reports to generate

200429R2_8

CAP NUM

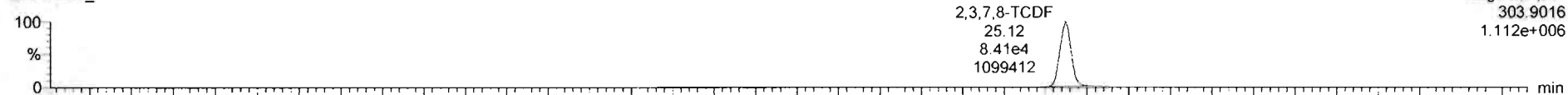
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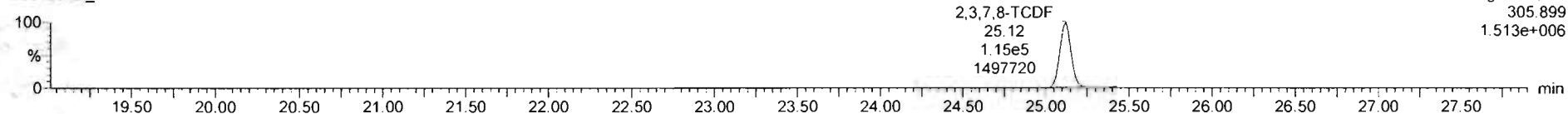
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2,3,7,8-TCDF

200429R2_8

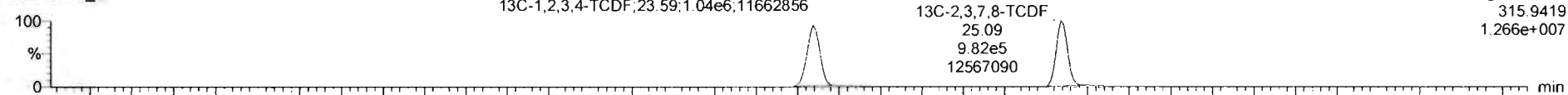


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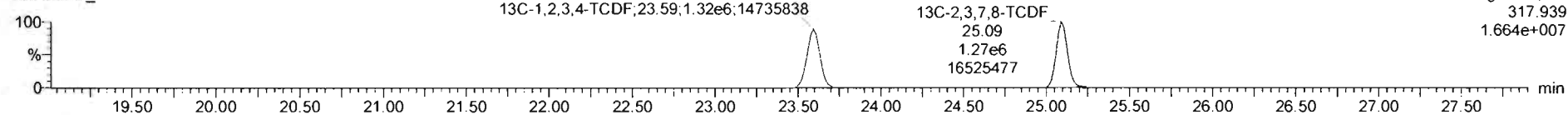


13C-2,3,7,8-TCDF

200429R2_8

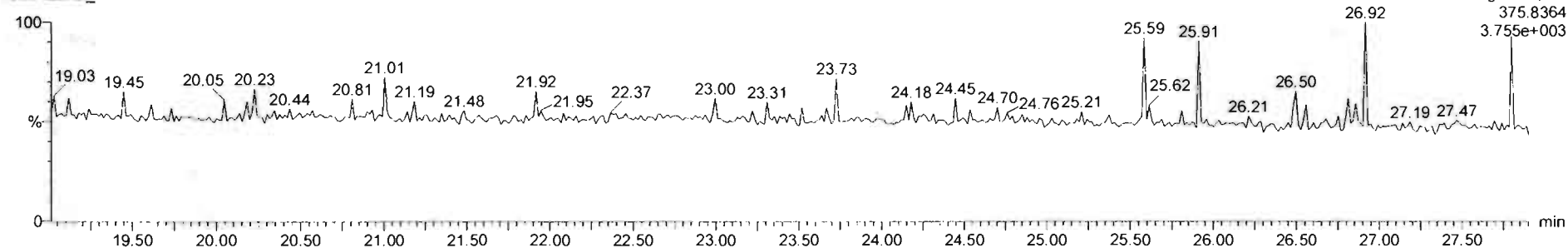


200429R2_8



DPE1

200429R2_8



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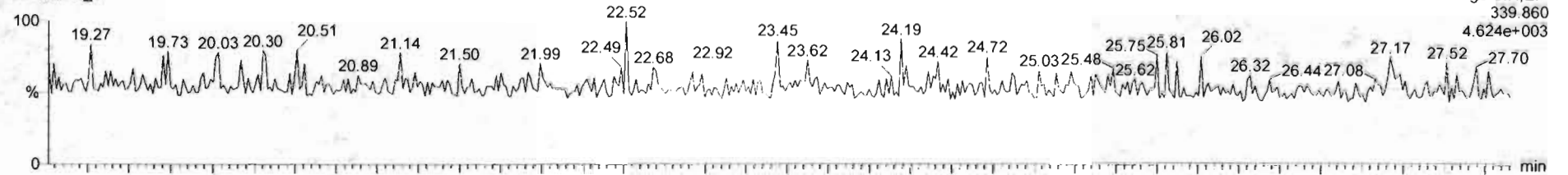
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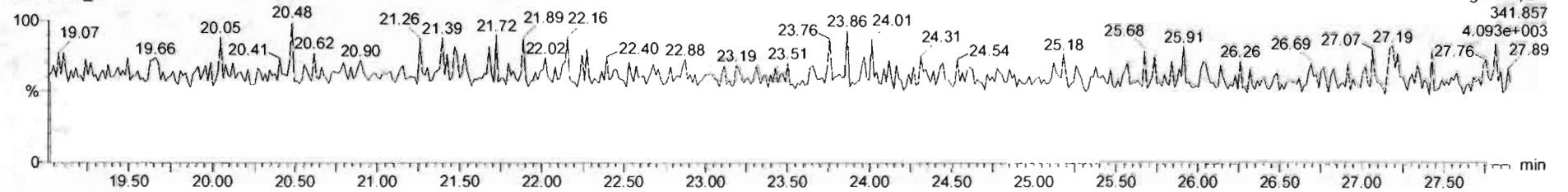
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200429R2_8

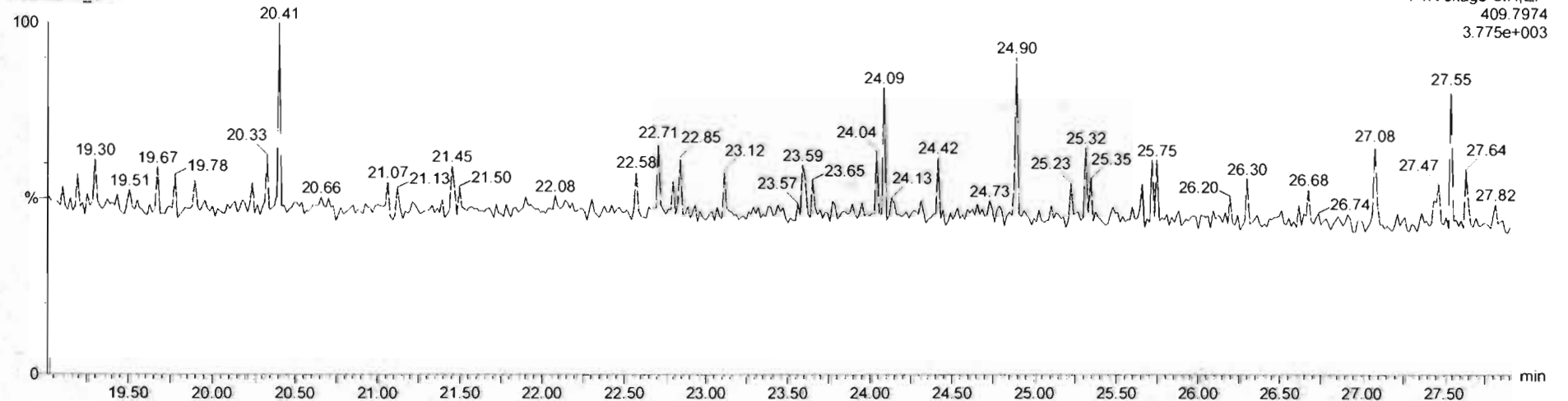


200429R2_8



DPE6

200429R2_8



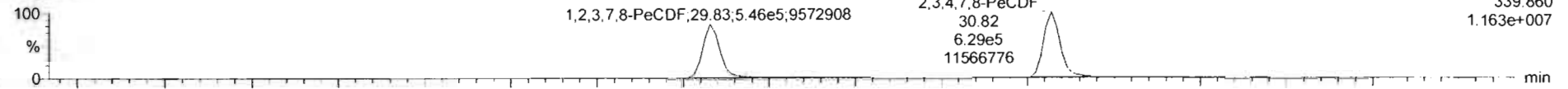
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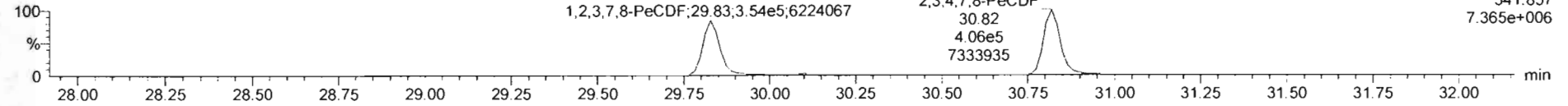
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1,2,3,7,8-PeCDF

200429R2_8

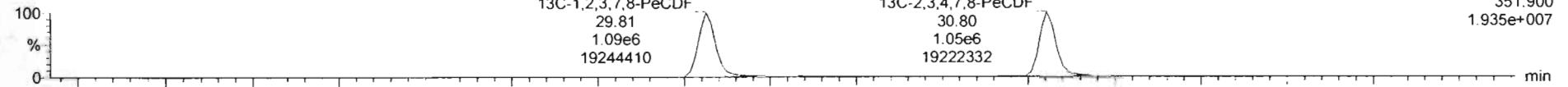


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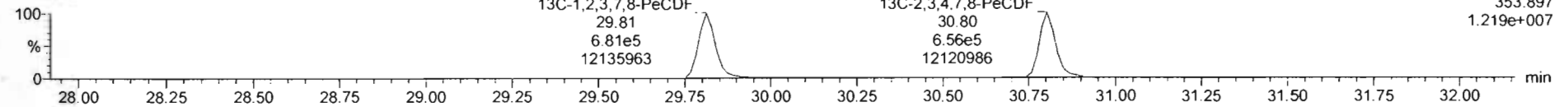


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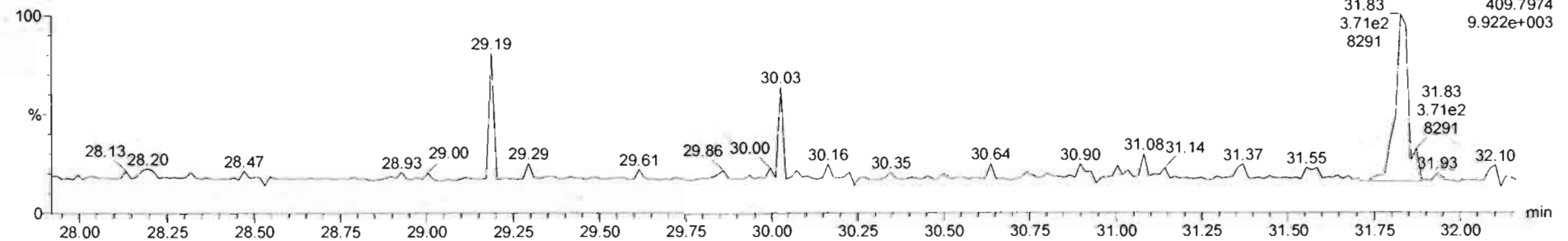


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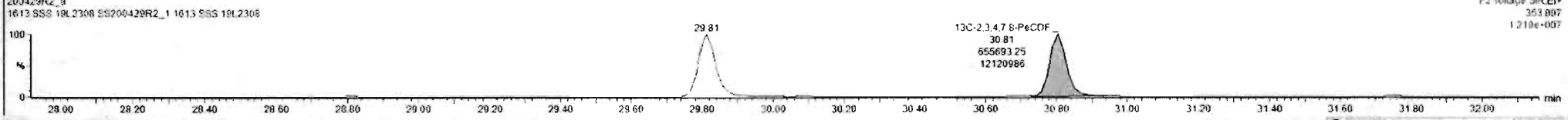
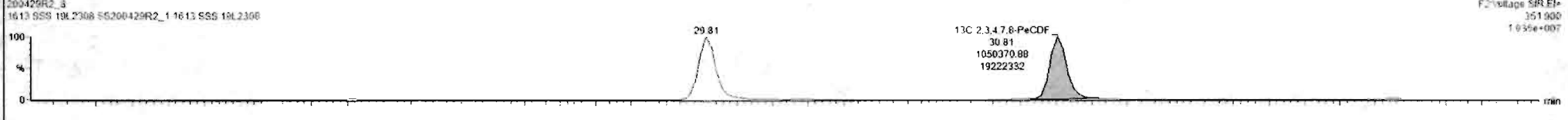
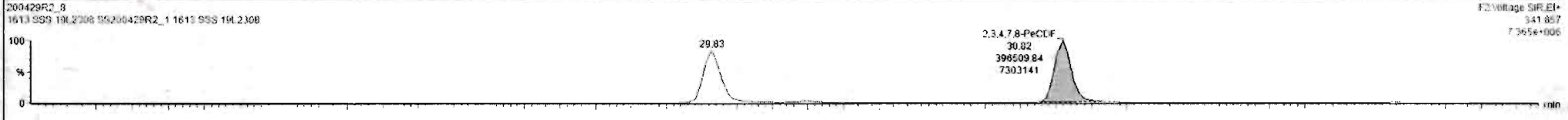
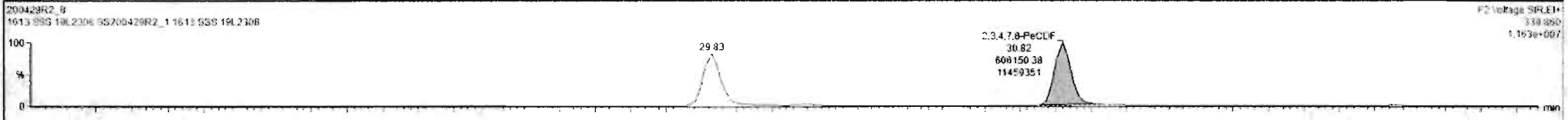


DPE2

200429R2_8



Name	Resp	RA	inj	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	112	0.0427	11.2
2 1,2,3,4,7,8-PeCDD	5.70e5	0.63	NO	0.9425	1.000	31.14	1.000	56.1	112	0.0577	56.1
3 1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	56.0	116	0.102	58.0
4 1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.61	1.001	57.4	115	0.105	57.4
5 1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.9145	1.000	34.83	1.000	58.2	116	0.120	58.2
6 1,2,3,4,6,7,8-HpCDD	3.46e5	1.04	NO	0.8979	1.000	36.85	1.001	56.7	113	0.145	56.7
7 OCDD	6.53e5	0.88	NO	0.9335	1.000	41.35	1.000	117	117	0.107	117
8 2,3,7,8-TCDF	1.99e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	112	0.0306	11.2
9 1,2,3,7,8-PeCDF	9.00e5	1.54	NO	0.9102	1.000	29.81	1.001	55.6	112	0.0810	55.6
10 2,3,4,7,8-PeCDF	1.00e6	1.53	ND	0.9664	1.000	30.82	1.000	66.3	122	0.0765	66.8
11 1,2,3,4,7,8-HxCDF	5.51e5	1.22	NO	0.8782	1.000	33.64	1.000	55.9	112	0.109	55.5
12 1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	32.76	1.000	56.5	113	0.107	56.5
13 2,3,4,6,7,8-HxCDF	5.78e5	1.19	NO	0.9217	1.000	34.33	1.000	56.2	112	0.118	56.2
14 1,2,3,7,8,9-HxCDF	4.78e5	1.19	NO	0.8642	1.000	35.22	1.000	55.3	111	0.162	55.3
15 1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.8712	1.000	36.97	1.001	54.9	110	0.153	54.9
16 1,2,3,4,7,8,9-HpCDF	2.99e5	0.98	NO	1.0116	1.000	38.95	1.000	57.2	114	0.204	57.2
17 OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	115	0.126	115



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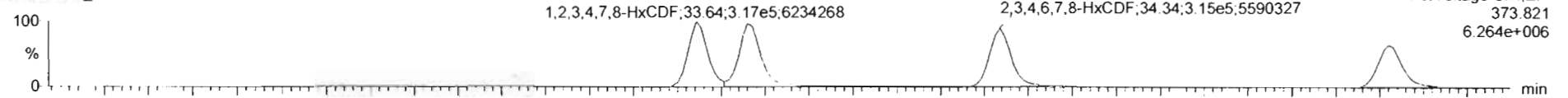
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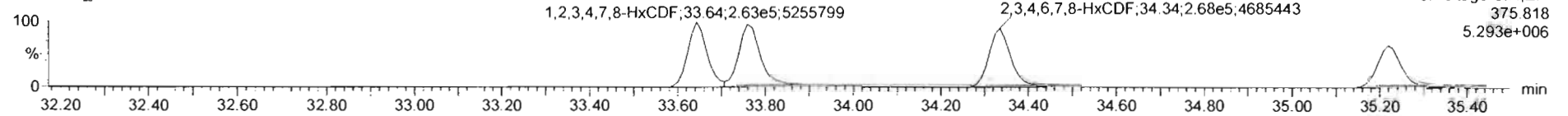
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1,2,3,4,7,8-HxCDF

200429R2_8

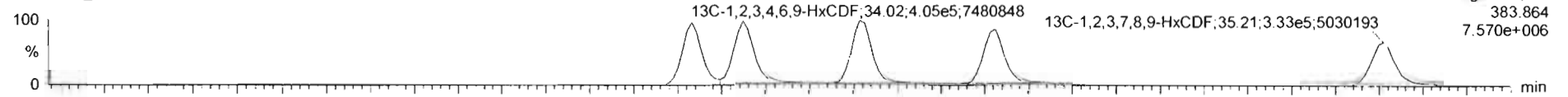


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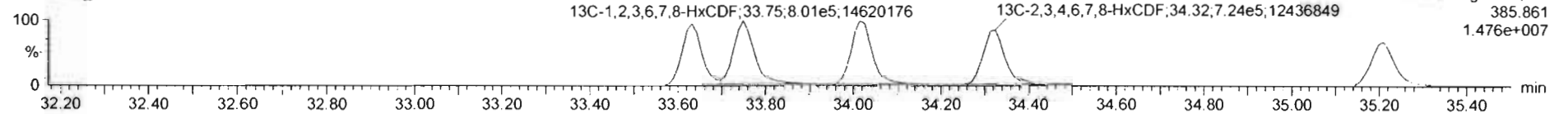


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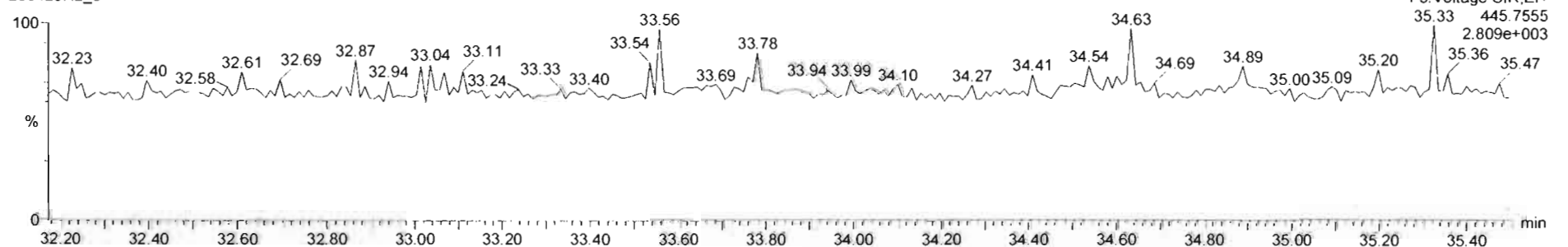


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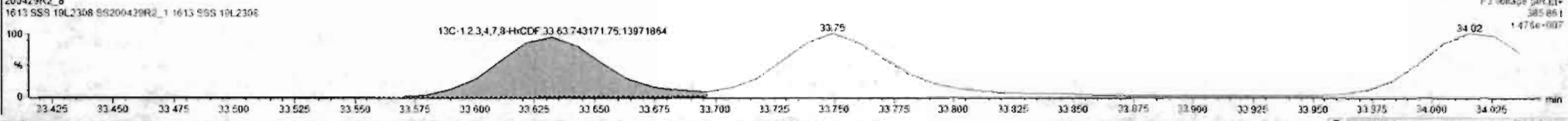
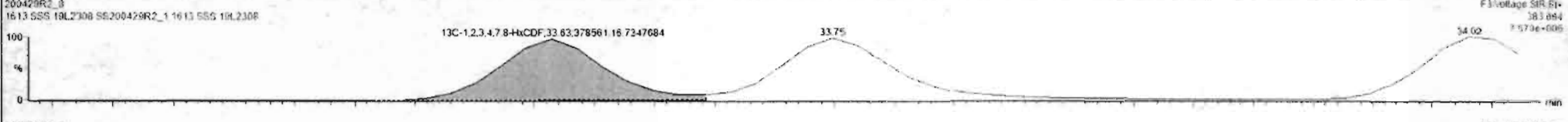
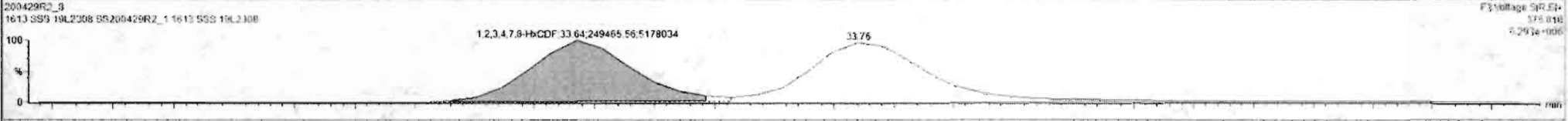
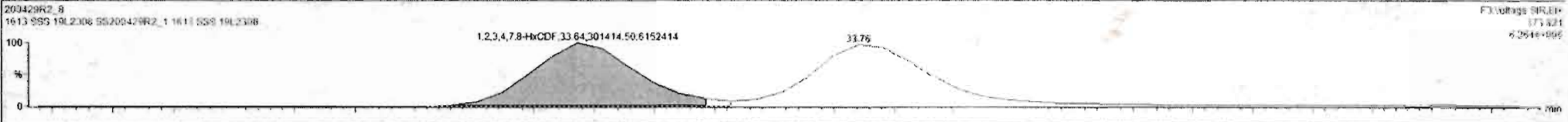
DPE3

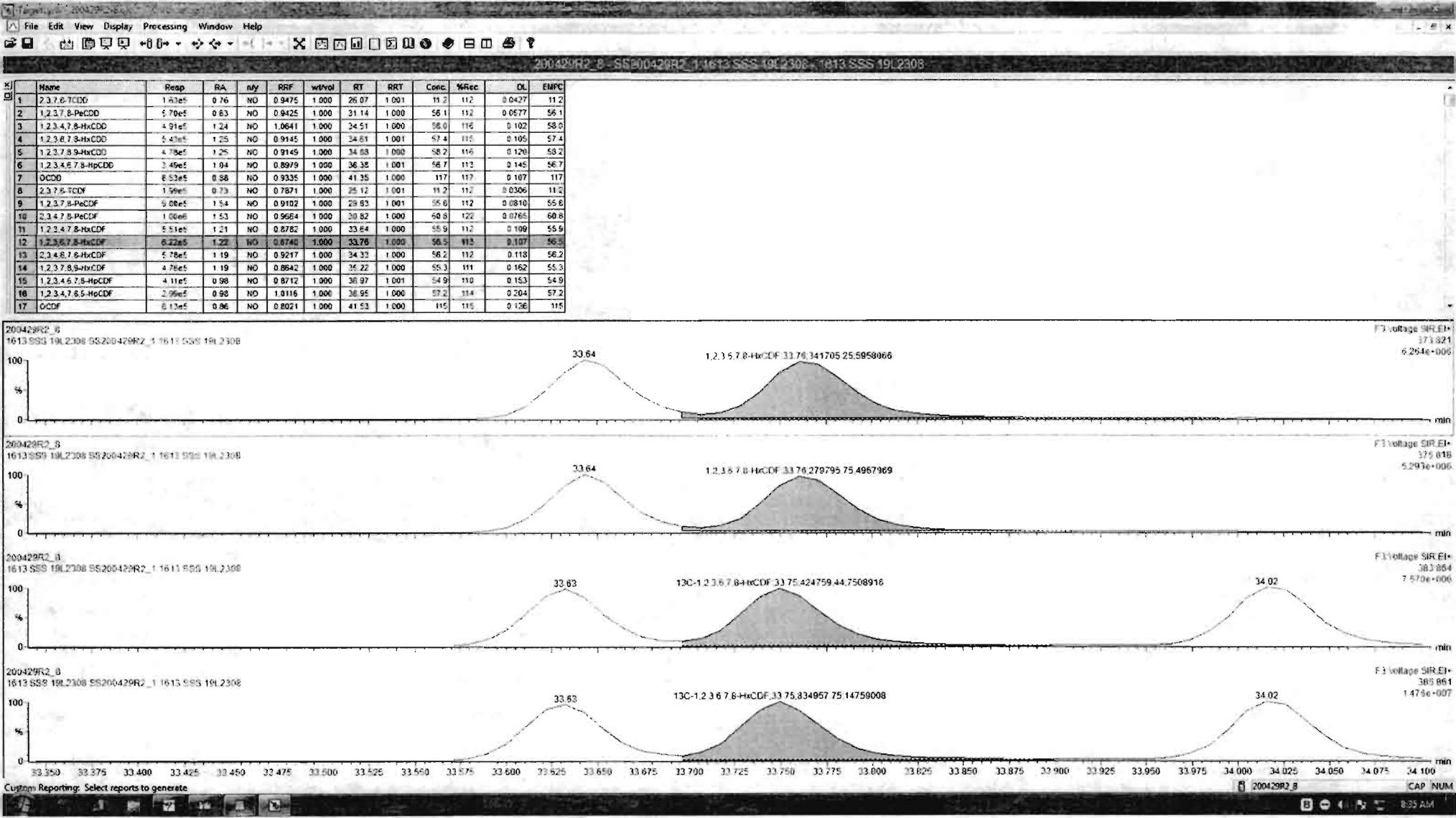
200429R2_8



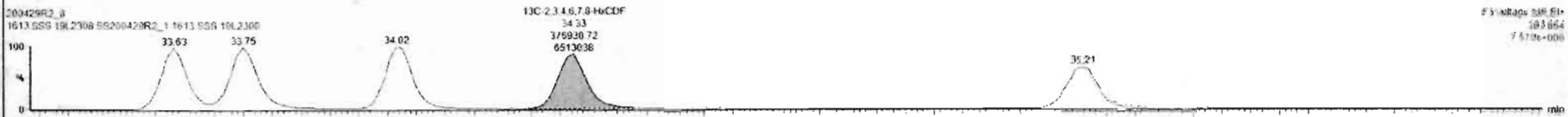
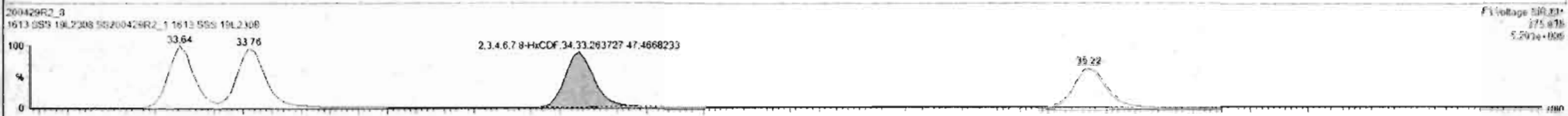
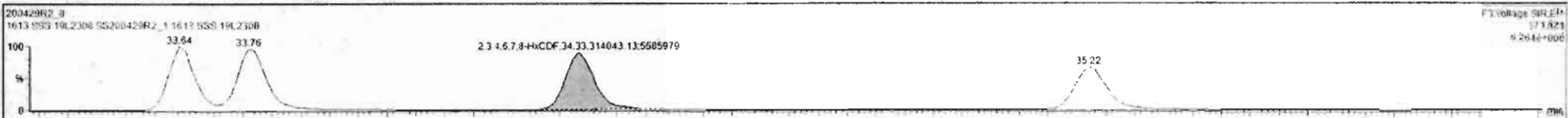
200429R2_8 - SS200429R2_1 1613 SSS 19L2308 - 1613 SSS 19L2308

#	Name	Resp	RA	dy	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDF	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	112	0.0427	11.2
2	1,2,3,7,8-PeCDF	5.79e5	0.83	NO	0.9425	1.000	31.14	1.000	56.1	112	0.0577	56.1
3	1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	58.0	116	0.102	58.0
4	1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.01	1.001	57.4	115	0.105	57.4
5	1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.9149	1.000	34.08	1.000	58.2	116	0.120	58.2
6	1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8979	1.000	36.36	1.001	56.7	113	0.145	56.7
7	OCDD	6.53e5	0.88	NO	0.9335	1.000	41.35	1.000	117	117	0.107	117
8	2,3,7,8-TCDF	1.99e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	112	0.0306	11.2
9	1,2,3,7,8-PeCDF	9.08e5	1.54	NO	0.9192	1.000	29.93	1.001	55.6	112	0.0810	55.6
10	2,3,4,7,8-PeCDF	1.00e5	1.53	NO	0.9664	1.000	30.82	1.000	60.8	122	0.0765	60.8
11	1,2,3,4,7,8-HxCDF	5.51e5	1.31	NO	0.6782	1.000	33.64	1.000	55.9	112	0.109	55.9
12	1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.76	1.000	56.5	113	0.107	56.5
13	2,3,4,6,7,8-HxCDF	5.78e5	1.19	NO	0.9217	1.000	34.33	1.000	56.2	112	0.118	56.2
14	1,2,3,7,8,9-HxCDF	4.78e5	1.19	NO	0.8642	1.000	35.22	1.000	55.3	111	0.162	55.3
15	1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.8712	1.000	36.97	1.001	54.9	110	0.153	54.9
16	1,2,3,4,7,8,9-HpCDF	2.96e5	0.98	NO	1.0116	1.000	36.95	1.000	57.2	114	0.204	57.2
17	OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	115	0.126	115

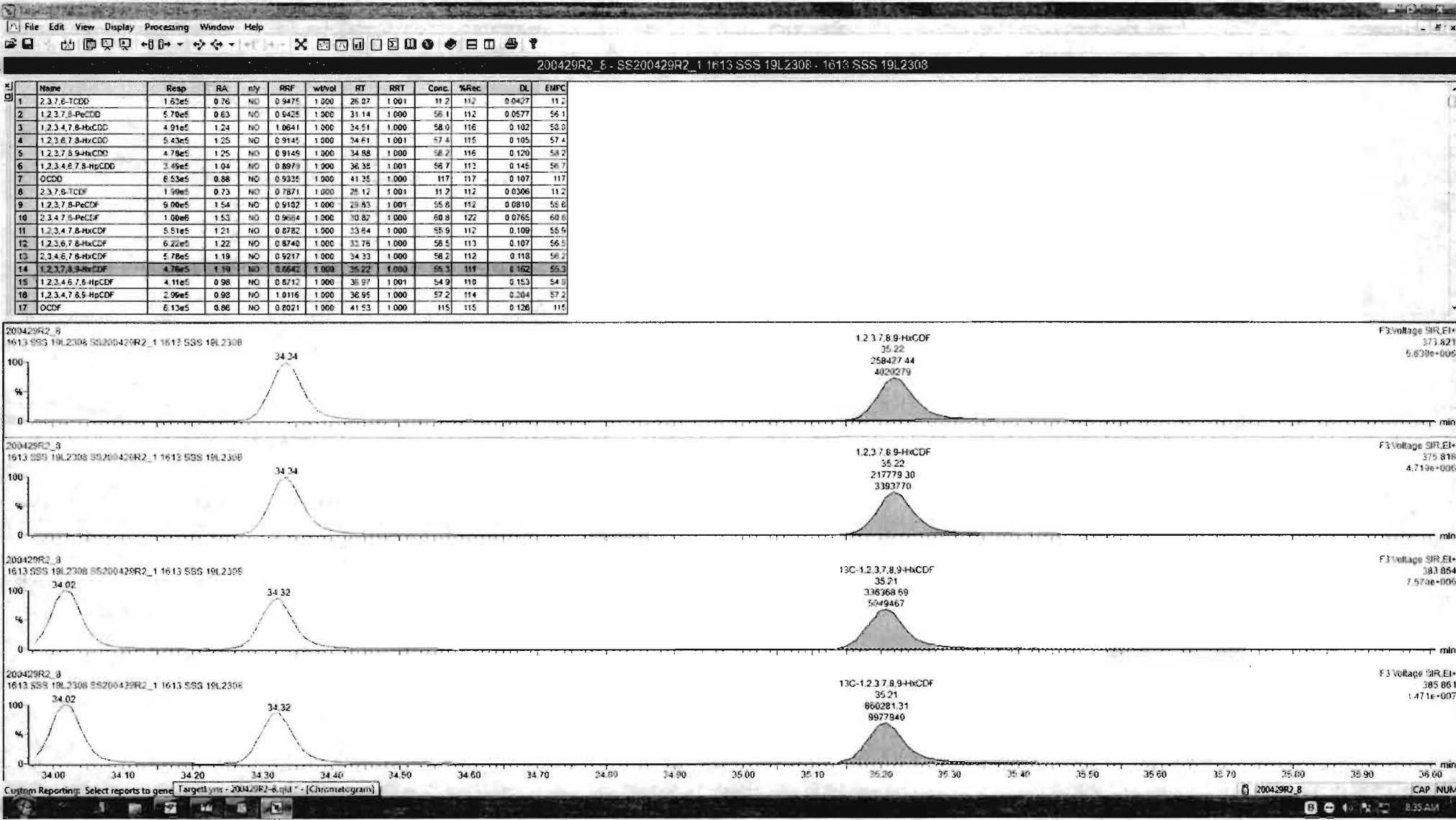




#	Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.7	11.2	0.0427	11.2
2	1,2,3,7,8-PeCDD	5.70e5	0.83	NO	0.9425	1.000	31.14	1.000	56.1	11.2	0.0577	56.1
3	1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	58.0	11.6	0.102	58.0
4	1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.61	1.001	57.4	11.5	0.105	57.4
5	1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.9145	1.000	34.88	1.000	58.2	11.6	0.120	58.2
6	1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8979	1.000	36.38	1.001	58.7	11.3	0.145	56.7
7	OCDD	6.53e5	0.88	NO	0.9335	1.000	41.35	1.000	117	11.7	0.107	117
8	2,3,7,8-TCDF	1.59e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	11.2	0.0306	11.2
9	1,2,3,7,8-PeCDF	9.00e5	1.54	NO	0.9102	1.000	29.83	1.001	55.8	11.2	0.0810	55.6
10	2,3,4,7,8-PeCDF	1.00e6	1.52	NO	0.9654	1.000	29.82	1.000	60.8	12.2	0.0765	60.8
11	1,2,3,4,7,8-HxCDF	5.51e5	1.21	NO	0.8782	1.000	33.64	1.000	55.9	11.2	0.109	55.9
12	1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.76	1.000	56.5	11.3	0.107	56.5
13	2,3,4,6,7,8-HxCDF	5.79e5	1.18	NO	0.9217	1.000	34.33	1.000	56.2	11.2	0.118	56.2
14	1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.8642	1.000	35.22	1.000	55.3	11.1	0.162	55.3
15	1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.8712	1.000	36.97	1.001	54.9	11.0	0.153	54.9
16	1,2,3,4,7,8,9-HoCDF	2.96e5	0.98	NO	1.0116	1.000	36.95	1.000	57.2	11.4	0.204	57.2
17	OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	11.5	0.126	115



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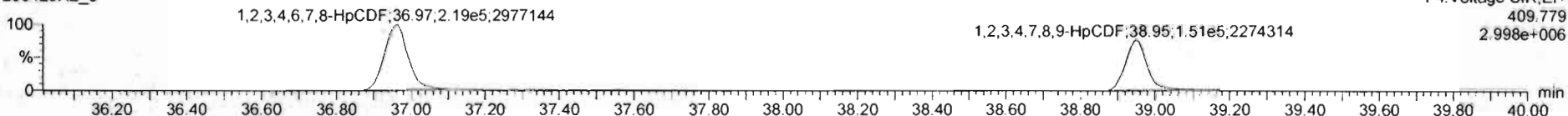
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200429R2_8

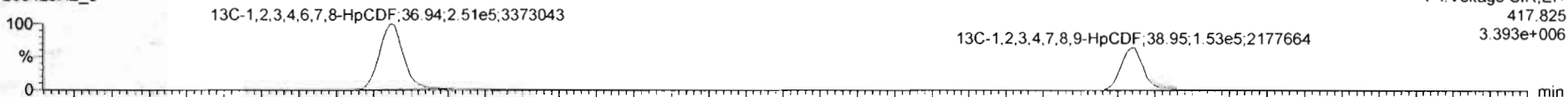


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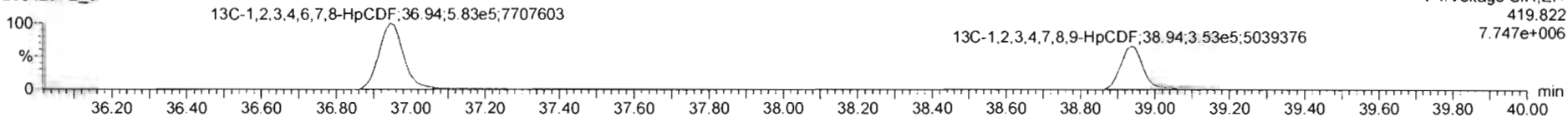


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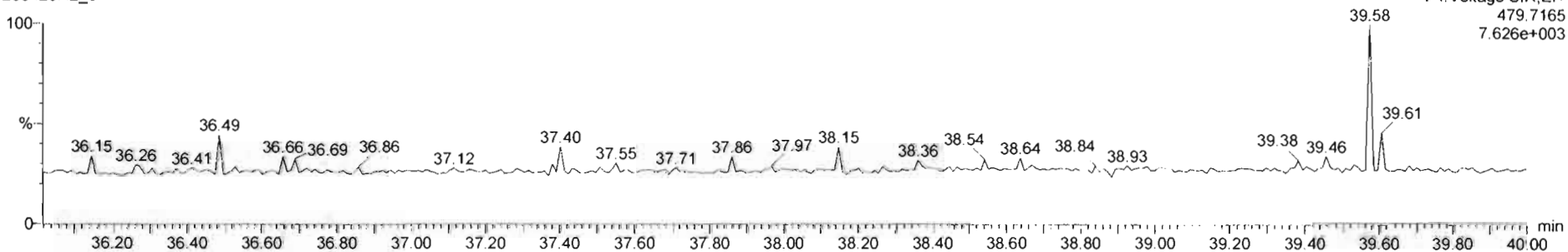


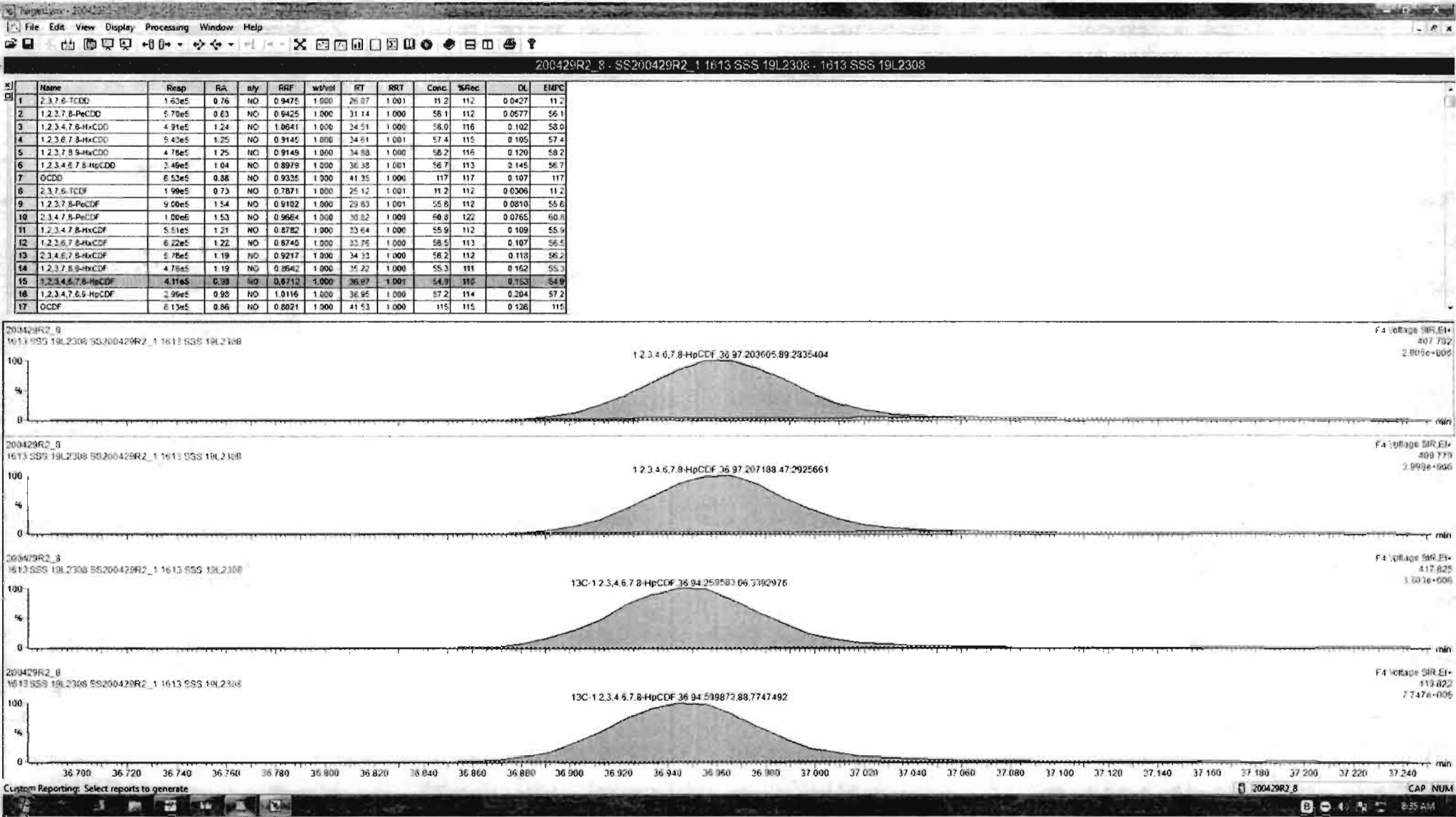
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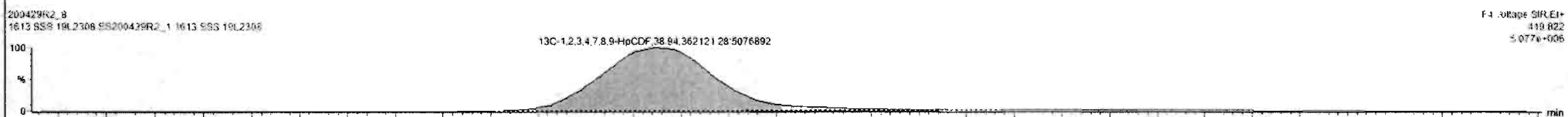
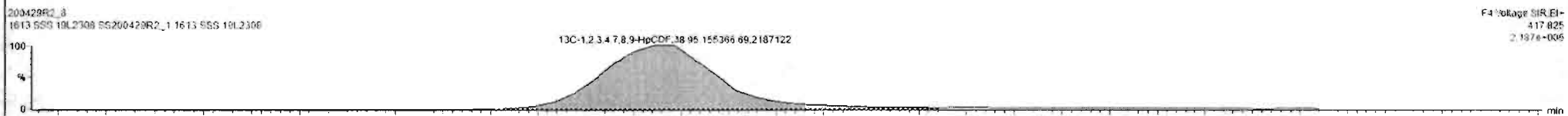
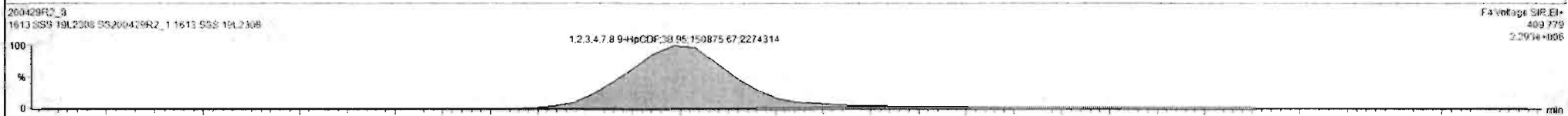
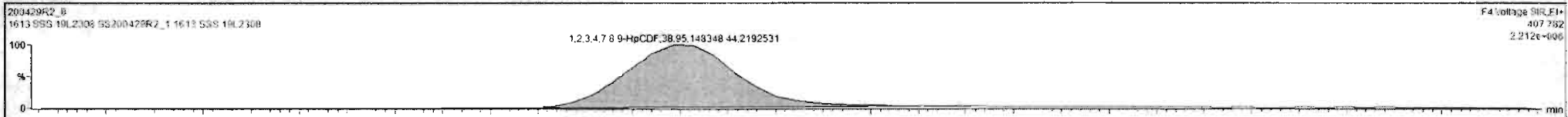
DPE4

200429R2_8





Name	Resp	RA	dy	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	11.2	0.0427	11.2
2 1,2,3,7,8-PeCDD	4.70e5	0.83	NO	0.9425	1.000	31.14	1.000	58.1	11.2	0.0577	56.1
3 1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	58.0	11.6	0.102	58.0
4 1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.61	1.001	57.4	11.5	0.105	57.4
5 1,2,3,7,8,9-HxCDD	4.76e5	1.25	NO	0.9145	1.000	34.68	1.000	58.2	11.6	0.120	58.2
6 1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8979	1.000	36.35	1.001	56.7	11.2	0.145	56.7
7 OCDD	6.53e5	0.88	NO	0.9335	1.000	41.35	1.000	117	11.7	0.107	117
8 2,3,7,8-TCDF	1.99e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	11.2	0.0306	11.2
9 1,2,3,7,8-PeCDF	9.00e5	1.54	NO	0.9102	1.000	29.63	1.001	55.6	11.2	0.0810	55.6
10 2,3,4,7,8-PeCDF	1.00e5	1.53	NO	0.9664	1.000	30.82	1.000	60.8	12.2	0.0765	60.8
11 1,2,3,4,7,8-HxCDF	5.51e5	1.21	NO	0.8782	1.000	33.84	1.000	55.9	11.2	0.109	55.9
12 1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.76	1.000	58.5	11.3	0.107	56.5
13 2,3,4,6,7,8-HxCDF	4.78e5	1.19	NO	0.9217	1.000	34.33	1.000	56.2	11.2	0.118	56.2
14 1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.8642	1.000	34.22	1.000	55.3	11.1	0.162	55.3
15 1,2,3,4,6,7,8-HpCDF	4.11e5	0.86	NO	0.8712	1.000	35.97	1.001	54.9	11.0	0.153	54.9
16 1,2,3,4,7,8,9-HpCDF	2.95e5	0.96	NO	1.0115	1.000	35.95	1.000	57.2	11.4	0.204	57.2
17 OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	11.5	0.126	115

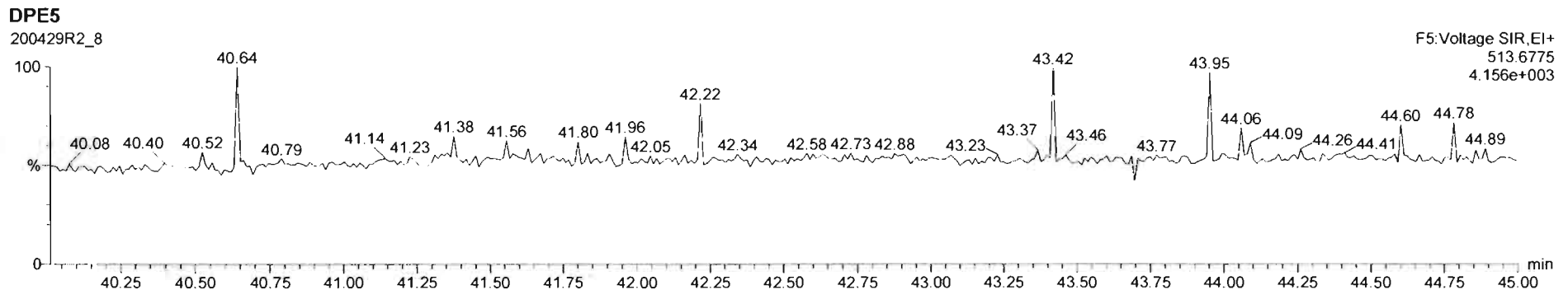
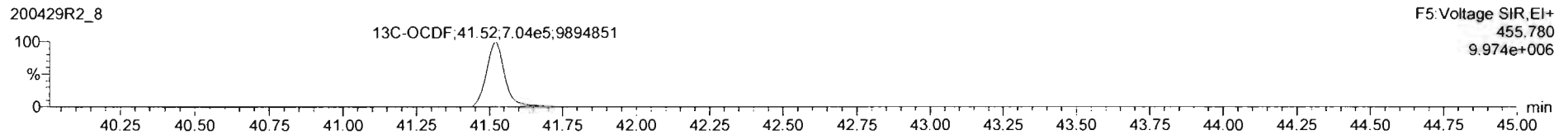
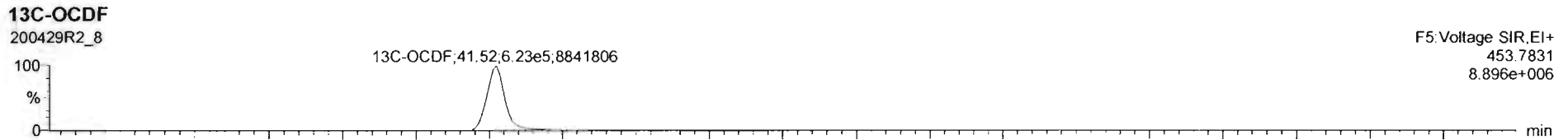
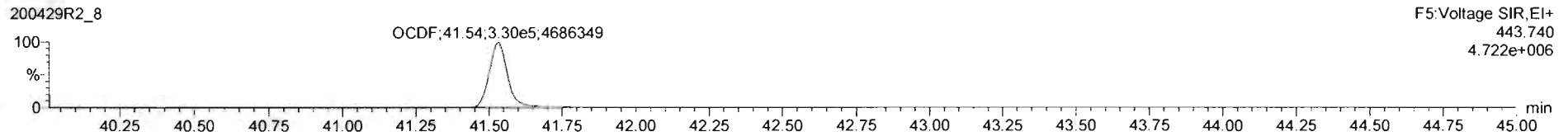
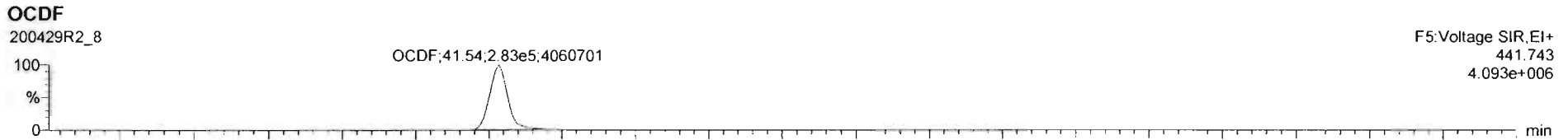


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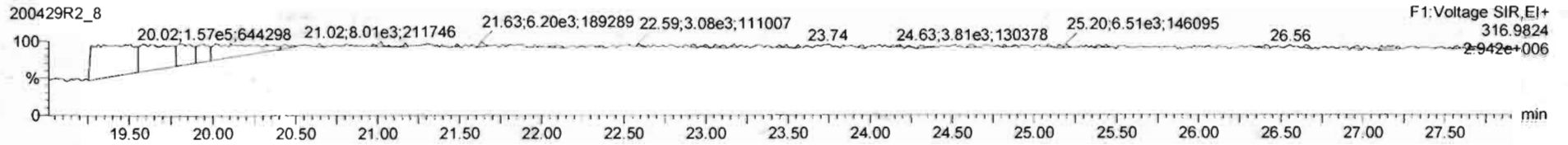
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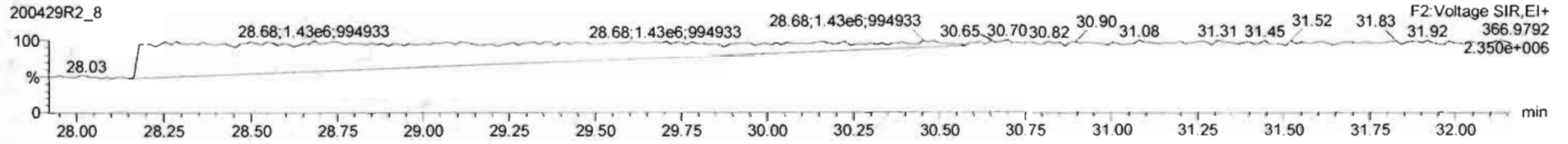
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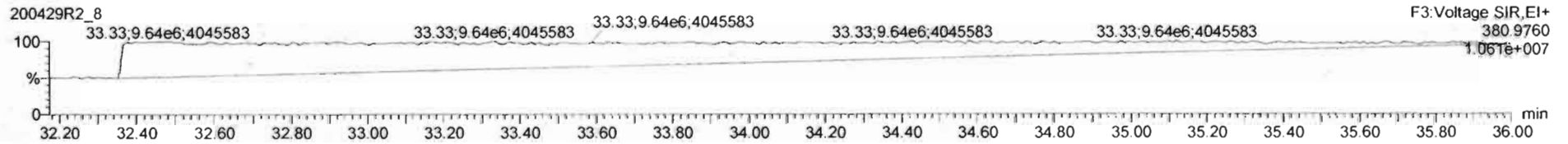
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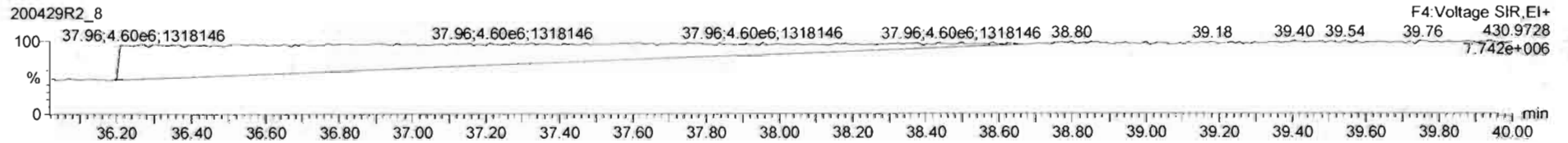
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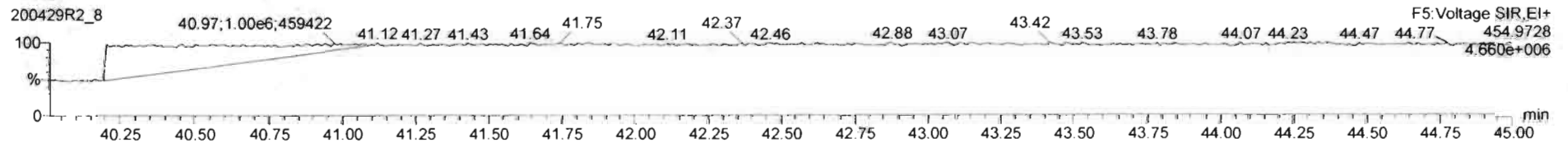
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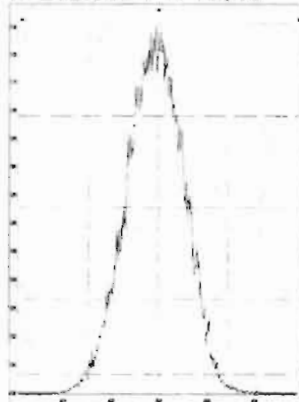
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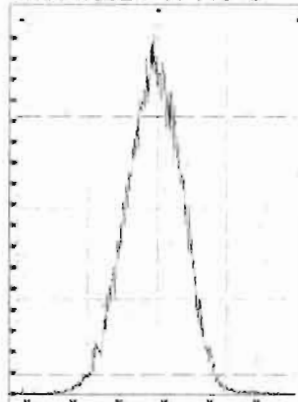
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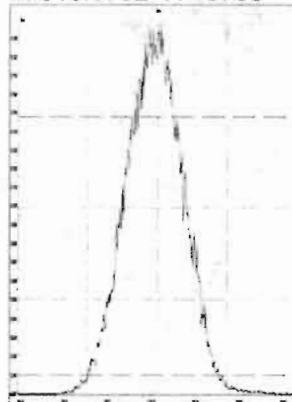
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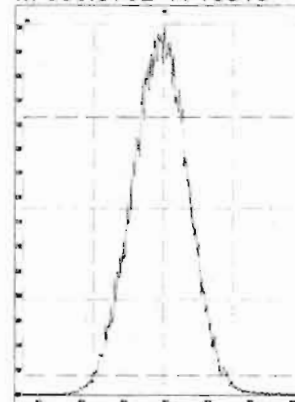
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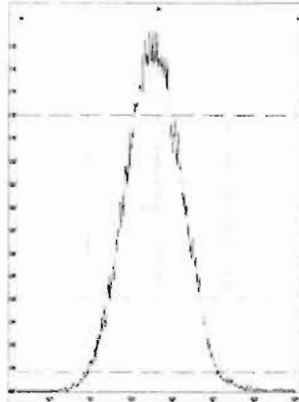
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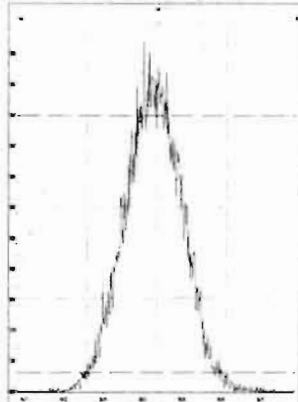
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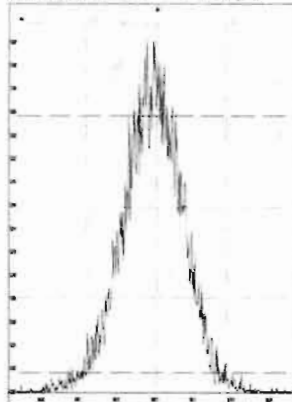
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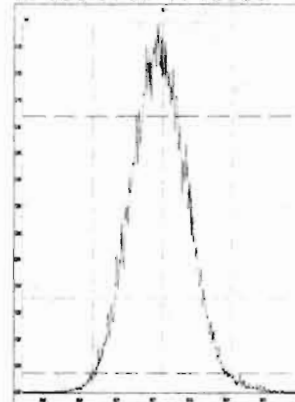
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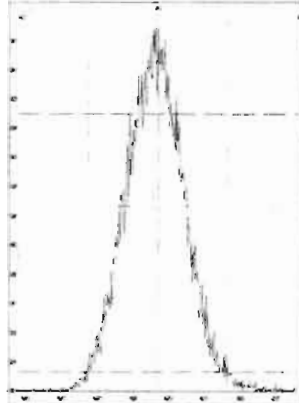
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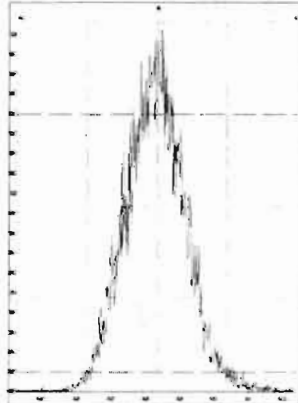
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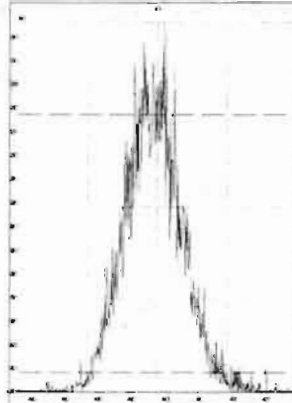
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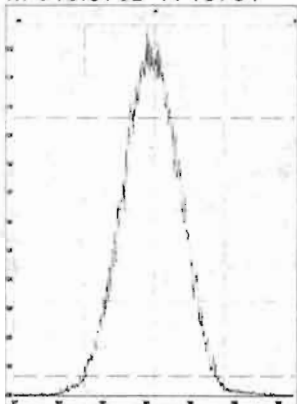
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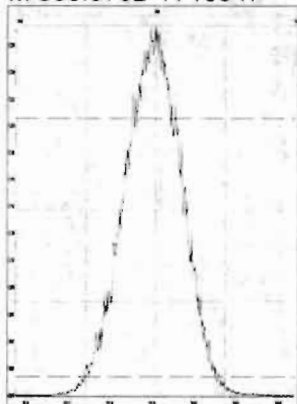
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Printed: Thursday, April 30, 2020 07:17:40 Pacific Daylight Time

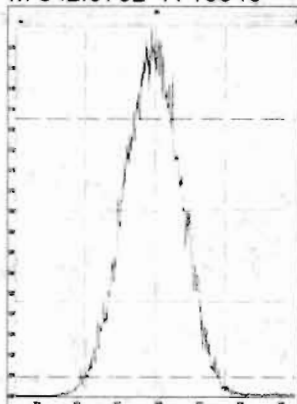
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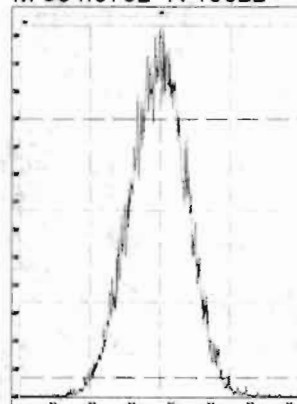
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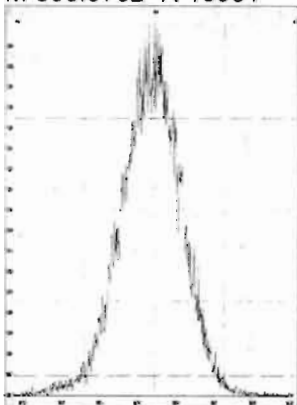
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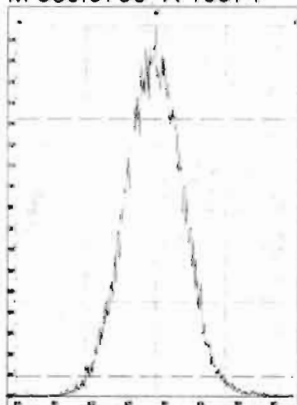
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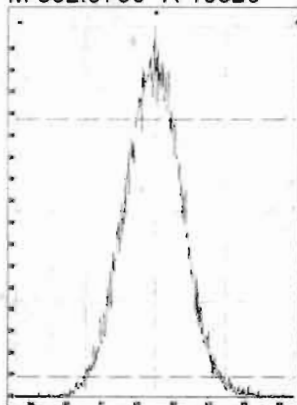
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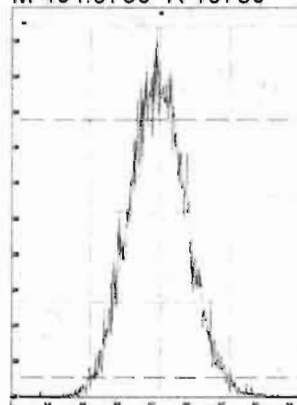
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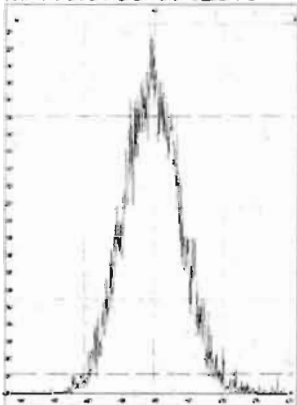
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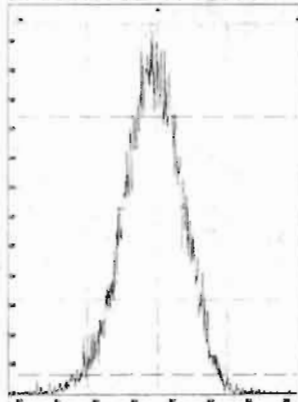
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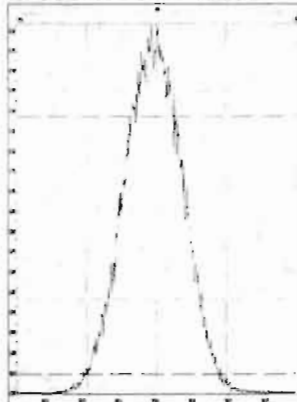
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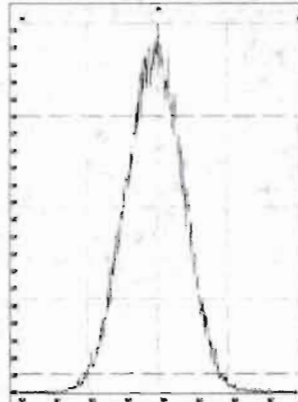
M 366.9792 R 10079



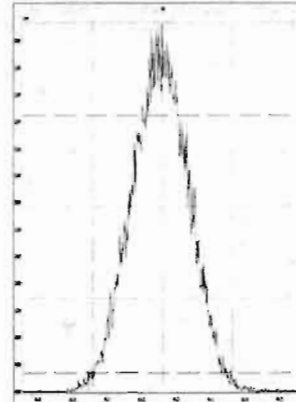
M 380.9760 R 10590



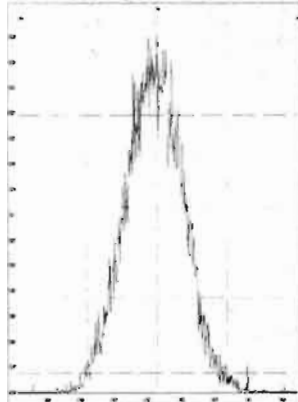
M 392.9760 R 10592



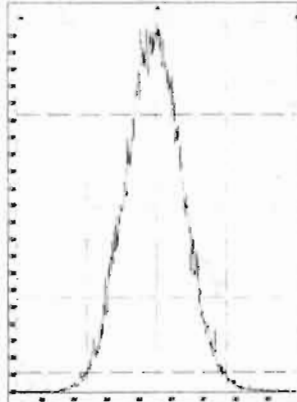
M 404.9760 R 11010



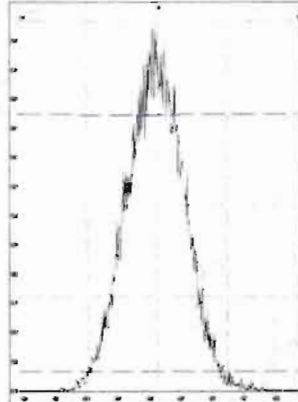
M 416.9760 R 10964



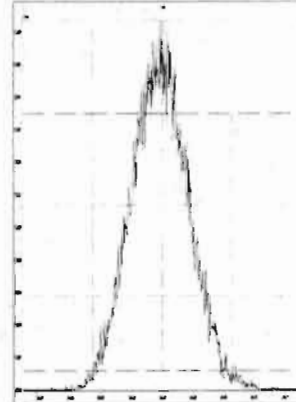
M 430.9728 R 10415



M 442.9728 R 10730



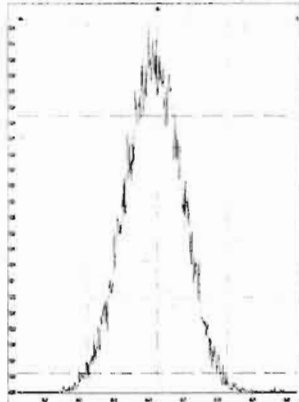
M 454.9728 R 11260



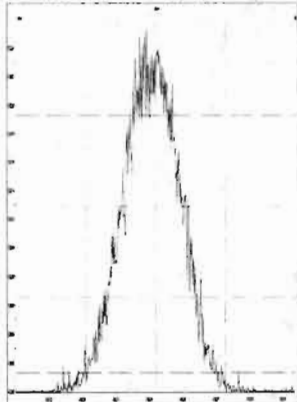
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, April 30, 2020 07:18:12 Pacific Daylight Time

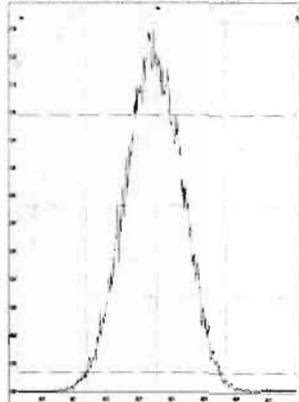
M 404.9760 R 10682



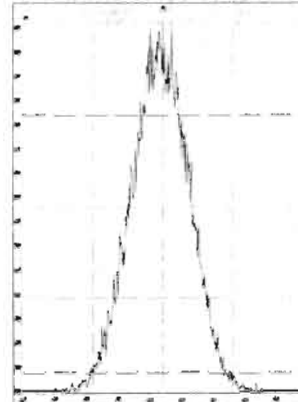
M 416.9760 R 10776



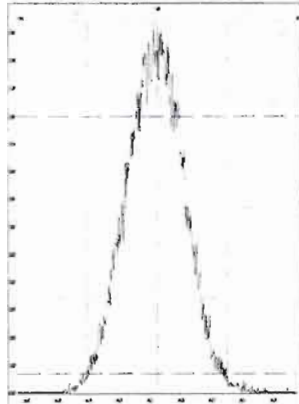
M 430.9728 R 10503



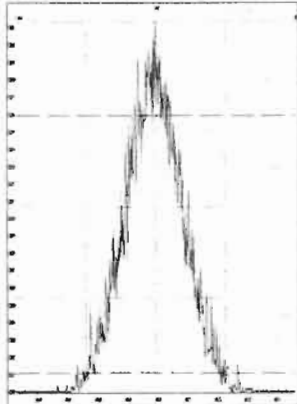
M 442.9728 R 10505



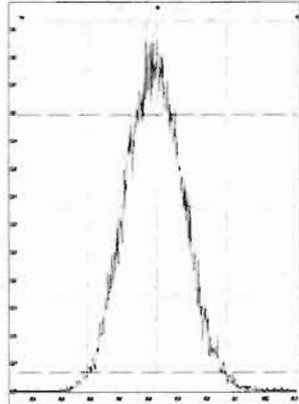
M 454.9728 R 10460



M 466.9728 R 10591



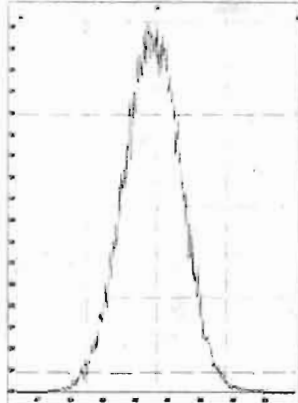
M 480.9696 R 10040



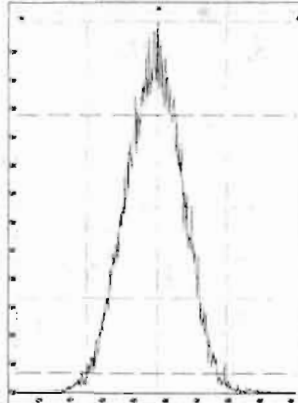
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, April 30, 2020 07:18:29 Pacific Daylight Time

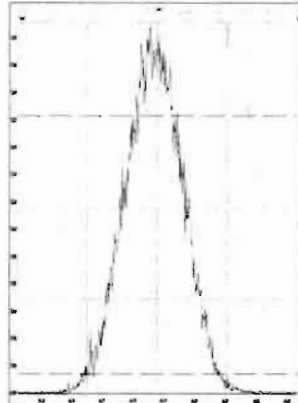
M 430.9728 R 10684



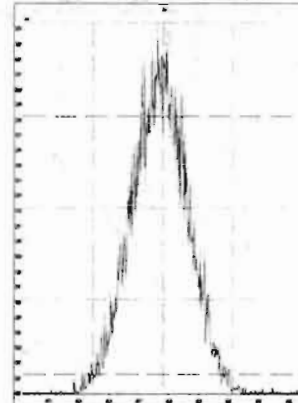
M 442.9728 R 10637



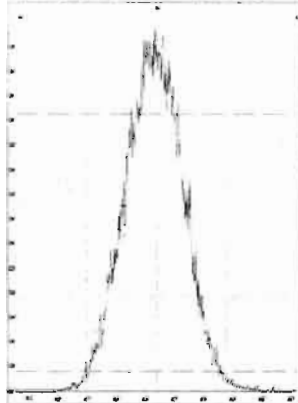
M 454.9728 R 11259



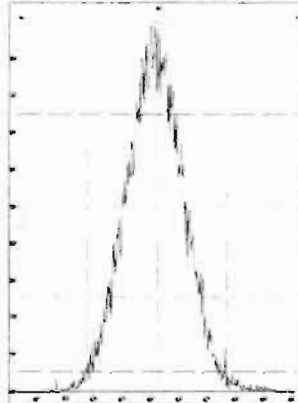
M 466.9728 R 11261



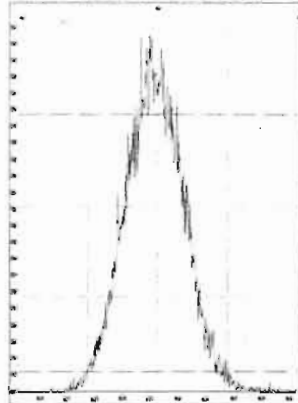
M 480.9696 R 10728



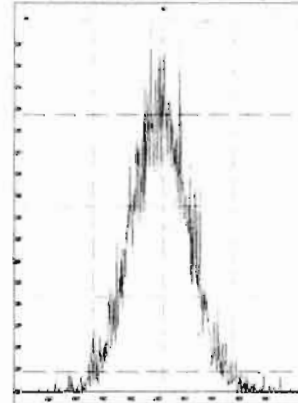
M 492.9696 R 10867



M 504.9696 R 10869



M 516.9697 R 11738



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 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

Vista Analytical Laboratory VG-9

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 7.02167e-017, Relative SD: 7.02167e-015

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.70	NO	15.17	1.13e5	1.13e5	100	1.00
2	2 200211D2_4	100	0.71	NO	15.18	1.14e5	1.14e5	100	1.00
3	3 200211D2_5	100	0.74	NO	15.17	1.34e5	1.34e5	100	1.00
4	4 200211D2_6	100	0.72	NO	15.17	1.15e5	1.15e5	100	1.00
5	5 200211D2_7	100	0.73	NO	15.17	1.35e5	1.35e5	100	1.00
6	6 200211D2_8	100	0.73	NO	15.17	1.38e5	1.38e5	100	1.00

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

Response Factor: 1026.38

RRF SD: 123.841, Relative SD: 12.0658

Response type: External Std, Area

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.79	NO	15.78	1.04e5		102	1040
2	2 200211D2_4	100	0.77	NO	15.78	8.57e4		83.5	857
3	3 200211D2_5	100	0.79	NO	15.78	9.44e4		92.0	944
4	4 200211D2_6	100	0.79	NO	15.78	9.87e4		96.1	987
5	5 200211D2_7	100	0.78	NO	15.78	1.13e5		110	1130
6	6 200211D2_8	100	0.78	NO	15.78	1.20e5		116	1200

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

	# Name	Resp	RA	n/y	RRF M...	w/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.982	1.000	17.23	0.22305	89.2	0.0931
2	2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	113.42	113	0.342
3	3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	100.00	100	0.371
4	4 13C-1,2,3,4-TCDD	1.04e5	0.79	NO	1030	1.000	15.78	101.65	102	0.291

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	6.08e2	0.66	NO	0.982	1.000	17.22	0.54947	110	0.147
2	2 13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	91.711	91.7	0.381
3	3 13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	100.00	100	0.412
4	4 13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1030	1.000	15.78	83.528	83.5	0.324

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.63e3	0.73	NO	0.982	1.000	17.23	2.0631	103	0.121
2	2 13C-2,3,7,8-TCDF	1.30e5	0.71	NO	1.08	1.000	17.20	89.279	89.3	0.292
3	3 13C-1,2,3,4-TCDF	1.34e5	0.74	NO	1.00	1.000	15.17	100.00	100	0.316
4	4 13C-1,2,3,4-TCDD	9.44e4	0.79	NO	1030	1.000	15.78	92.007	92.0	0.336

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.15e4	0.75	NO	0.982	1.000	17.23	9.3257	93.3	0.185
2	2 13C-2,3,7,8-TCDF	1.25e5	0.75	NO	1.08	1.000	17.20	100.76	101	0.364
3	3 13C-1,2,3,4-TCDF	1.15e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.394
4	4 13C-1,2,3,4-TCDD	9.87e4	0.79	NO	1030	1.000	15.78	96.149	96.1	0.331

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	5.76e4	0.74	NO	0.982	1.000	17.23	38.981	97.5	0.158
2	2 13C-2,3,7,8-TCDF	1.51e5	0.71	NO	1.08	1.000	17.20	102.61	103	0.300
3	3 13C-1,2,3,4-TCDF	1.35e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.325
4	4 13C-1,2,3,4-TCDD	1.13e5	0.78	NO	1030	1.000	15.78	110.19	110	0.311

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	4.81e5	0.73	NO	0.982	1.000	17.23	321.06	107	0.243
2	2 13C-2,3,7,8-TCDF	1.52e5	0.72	NO	1.08	1.000	17.20	102.22	102	0.295
3	3 13C-1,2,3,4-TCDF	1.38e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.319
4	4 13C-1,2,3,4-TCDD	1.20e5	0.78	NO	1030	1.000	15.78	116.47	116	0.322

Dataset: Untitled

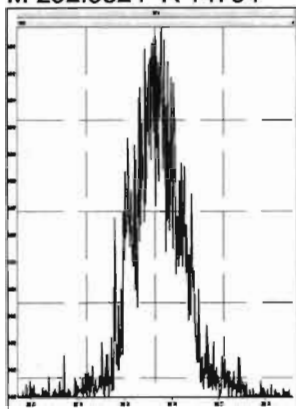
Last Altered: Wednesday, February 12, 2020 10:45:15 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:45:35 Pacific Standard Time

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

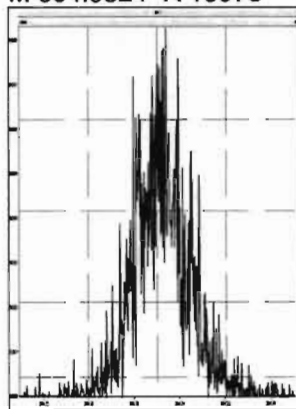
Compound name: 2,3,7,8-TCDF

	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

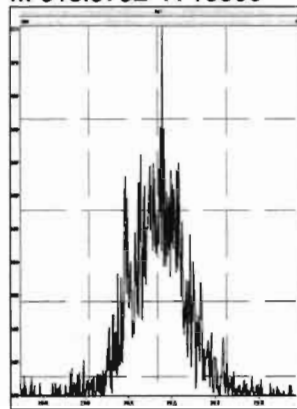
M 292.9824 R 14754



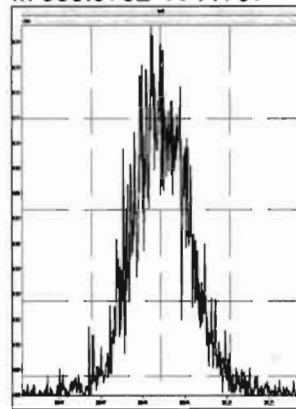
M 304.9824 R 15978



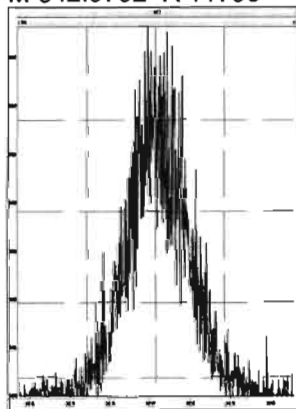
M 318.9792 R 15503



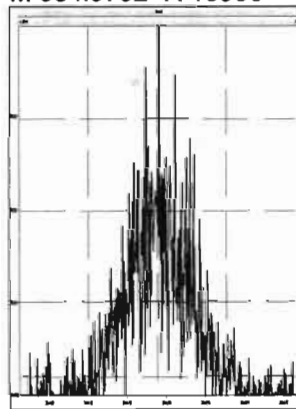
M 330.9792 R 11737



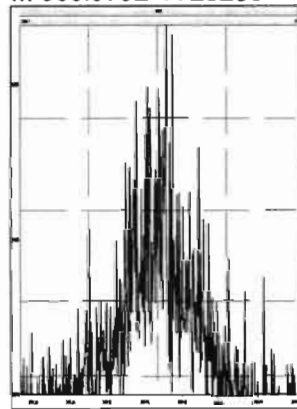
M 342.9792 R 11796



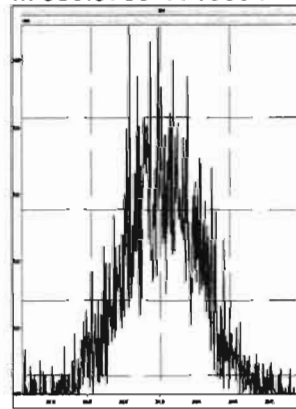
M 354.9792 R 15966

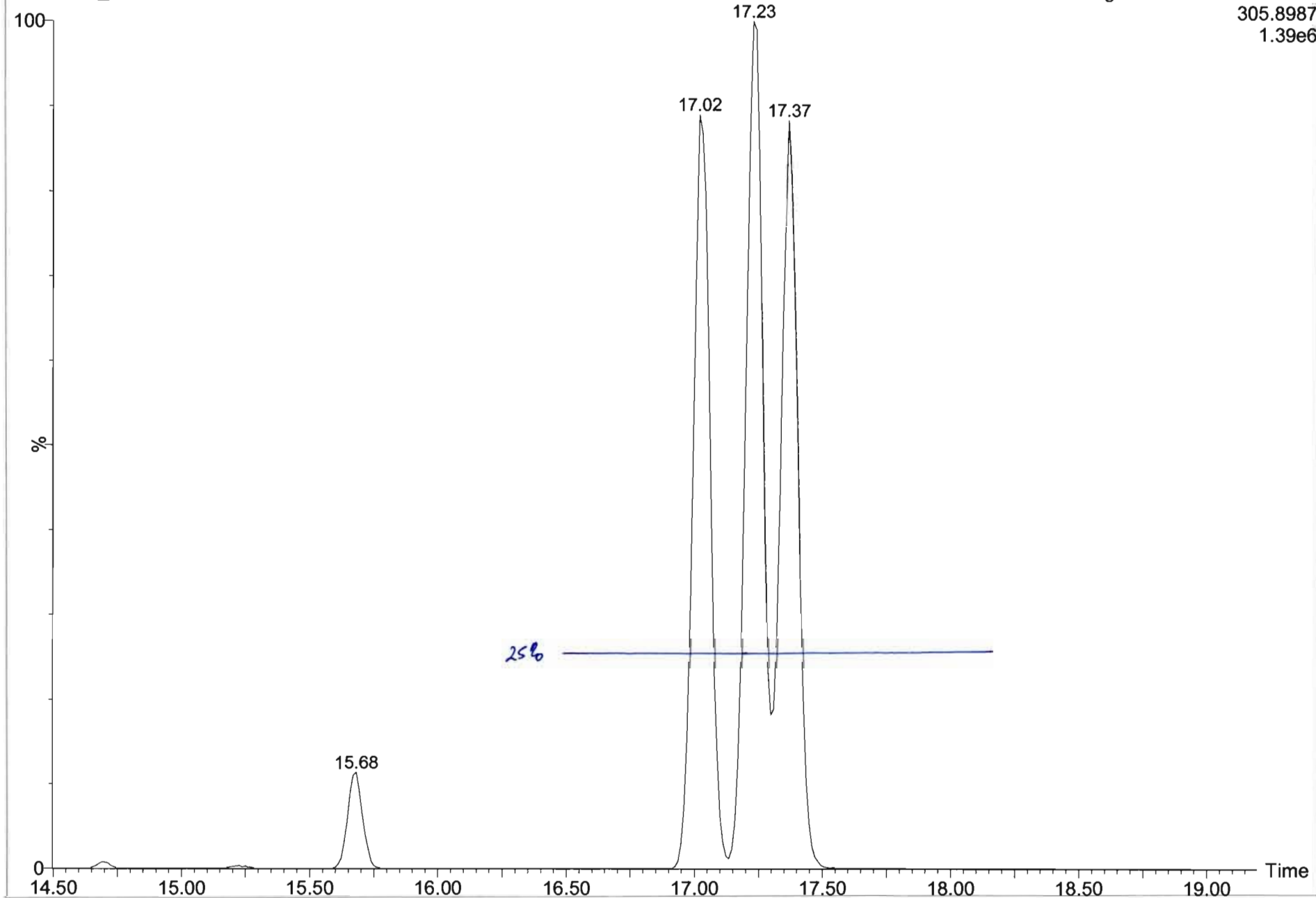


M 366.9792 R 28256



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

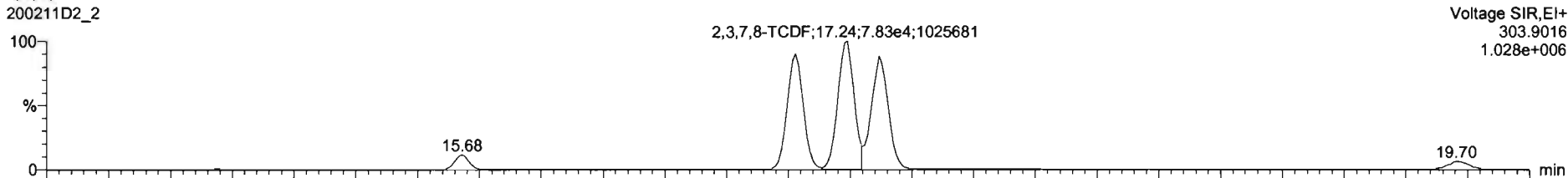
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

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

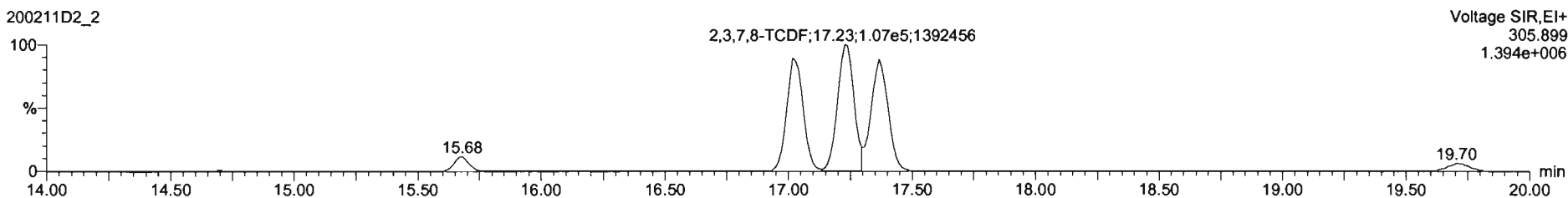
2,3,7,8-TCDF

200211D2_2



Voltage SIR,EI+
303.9016
1.028e+006

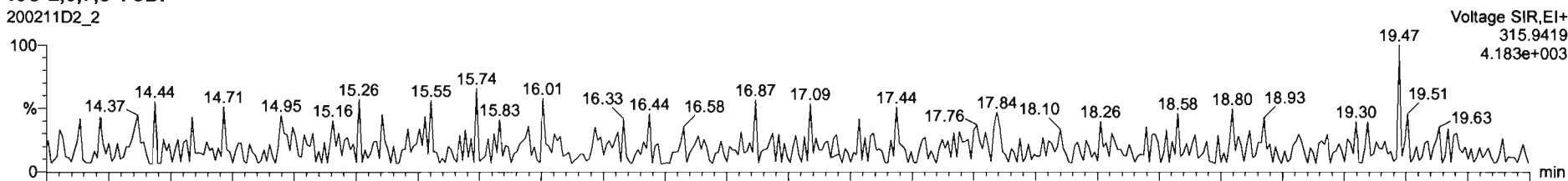
200211D2_2



Voltage SIR,EI+
305.899
1.394e+006

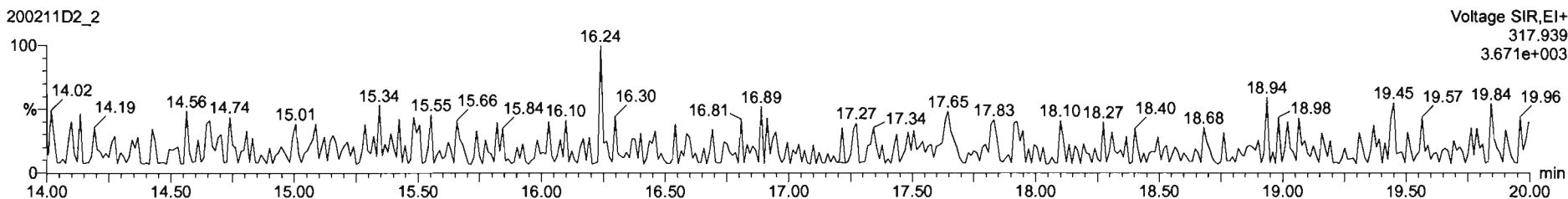
13C-2,3,7,8-TCDF

200211D2_2



Voltage SIR,EI+
315.9419
4.183e+003

200211D2_2



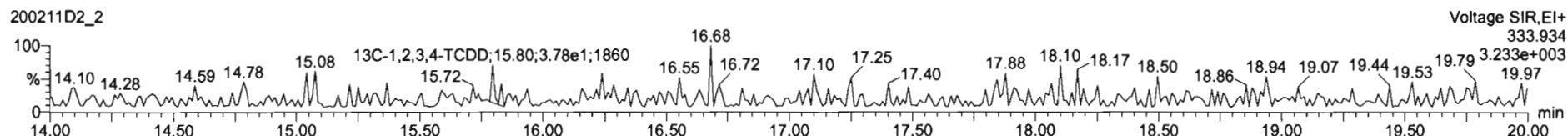
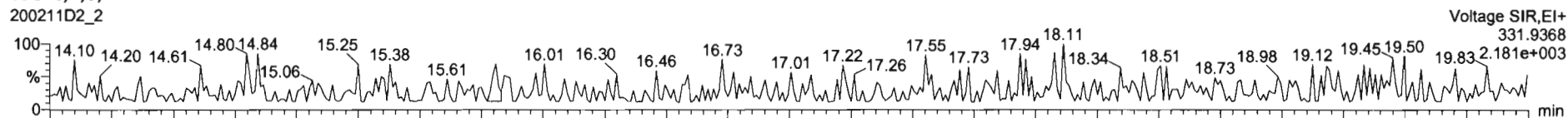
Voltage SIR,EI+
317.939
3.671e+003

Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

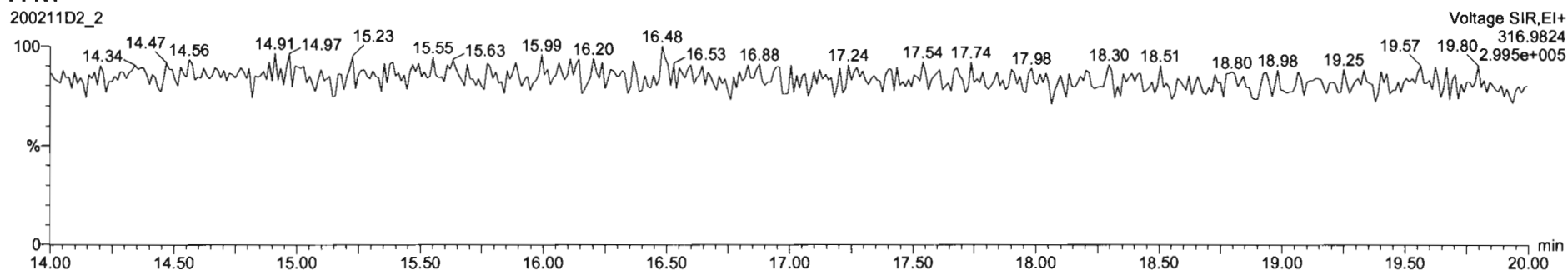
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Printed: Wednesday, February 12, 2020 10:15:34 Pacific Standard Time

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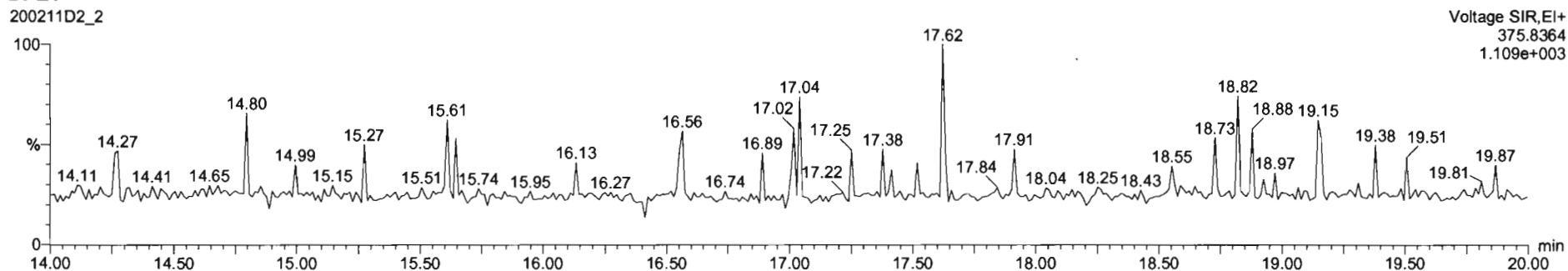
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

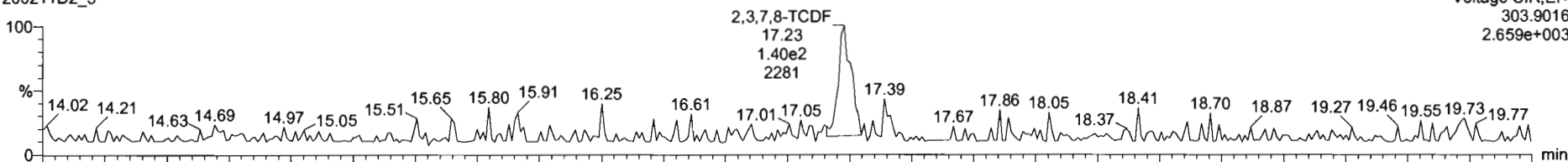
Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvfg7-2-11-20.cdb 12 Feb 2020 10:17:56

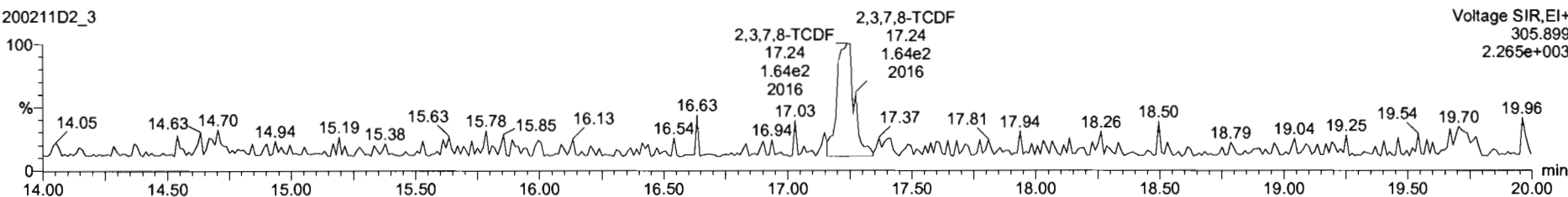
Name: 200211D2_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDF

200211D2_3

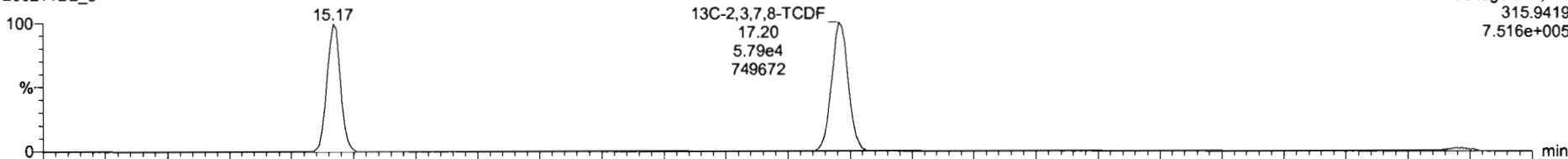


200211D2_3

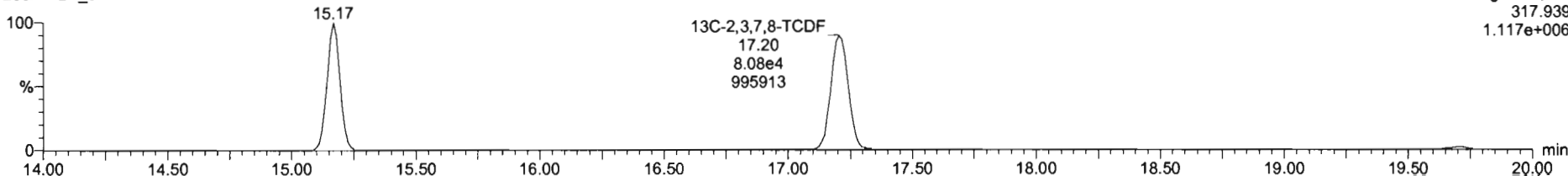


13C-2,3,7,8-TCDF

200211D2_3



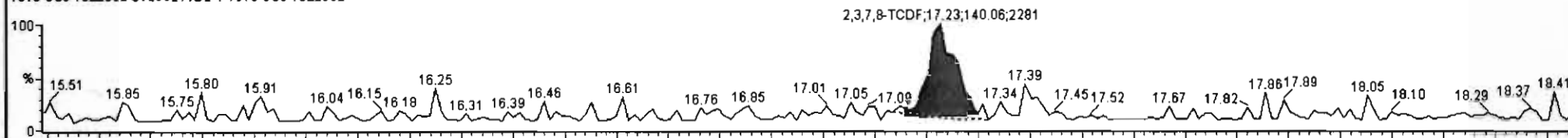
200211D2_3



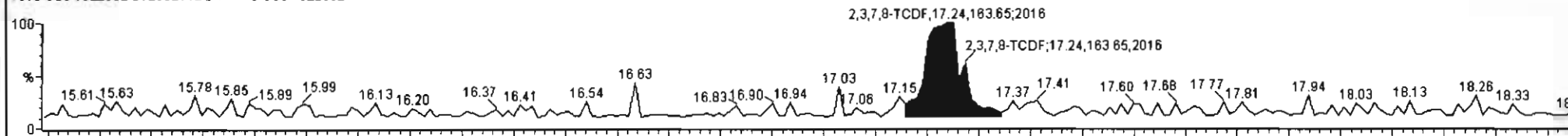
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.98	1.000	17.23	1.001	0.223	89.2	0.0831	0.223
2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	1.134	113	113	0.342	
3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	1.000	100	100	0.371	
4 13C-1,2,3,4-TCDF	1.04e5	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							

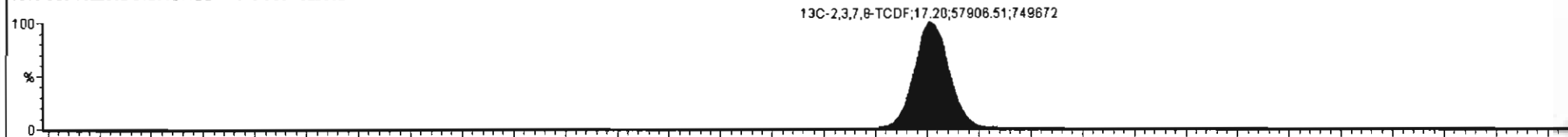
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



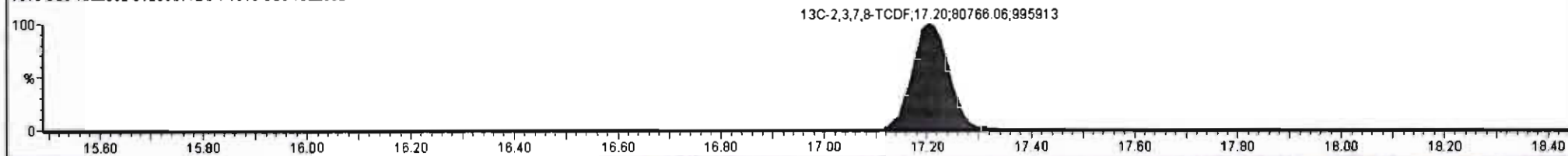
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



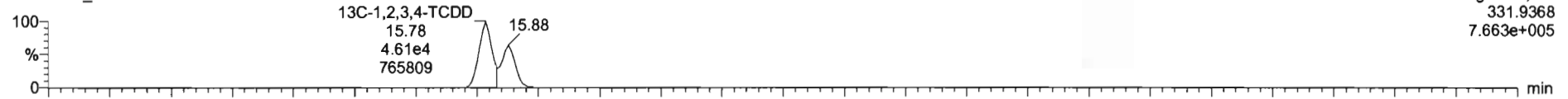
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

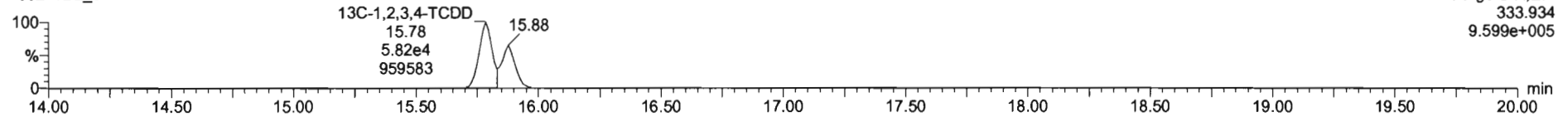
Name: 200211D2_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200211D2_3

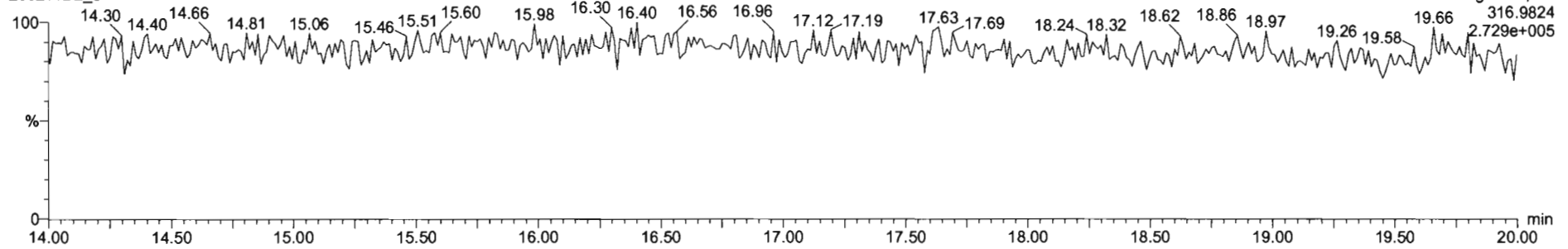


200211D2_3



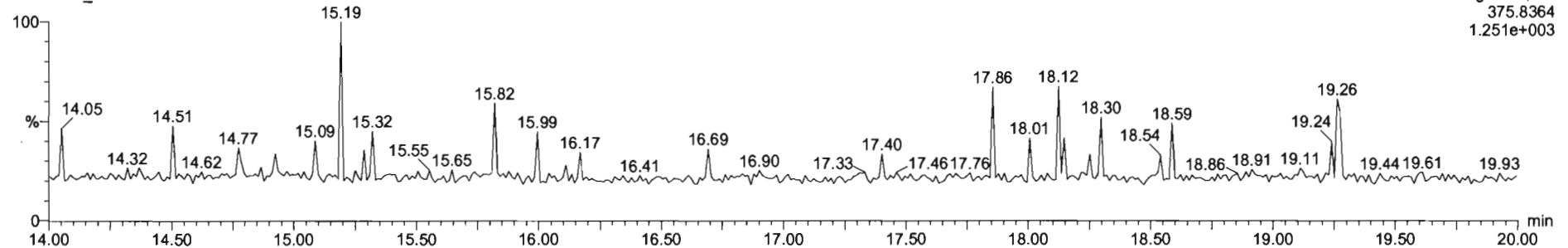
PFK1

200211D2_3



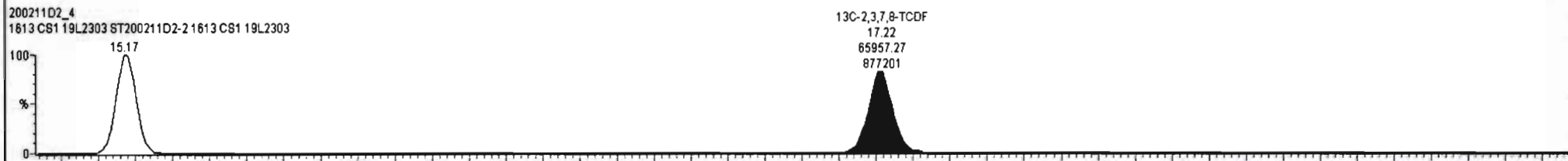
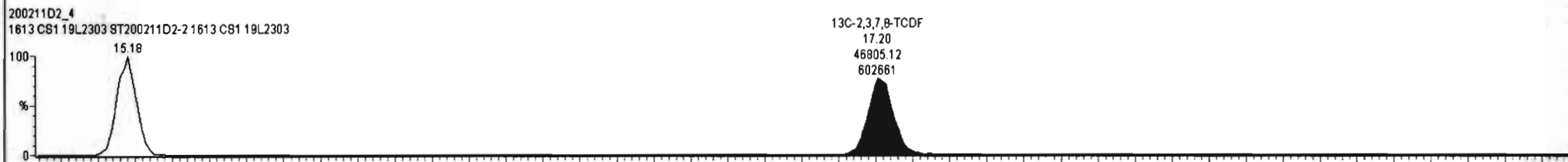
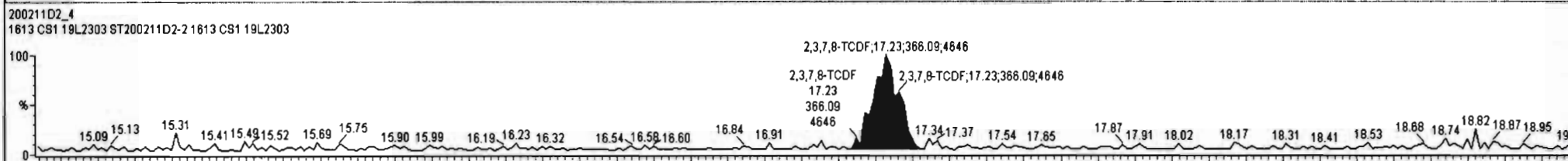
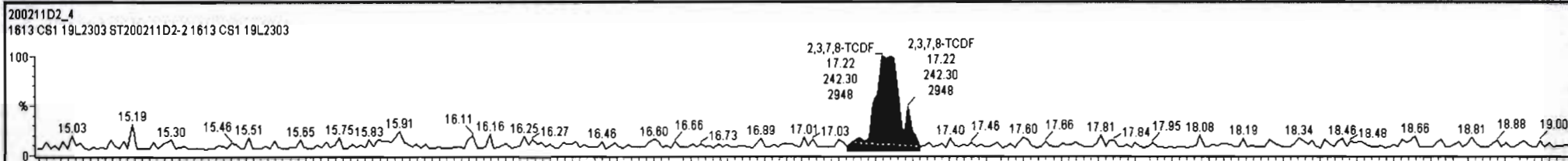
DPE1

200211D2_3



#	Name	Resp	RA	ruy	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EWPC
1	2,3,7,8-TCDF	8.09e2	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								



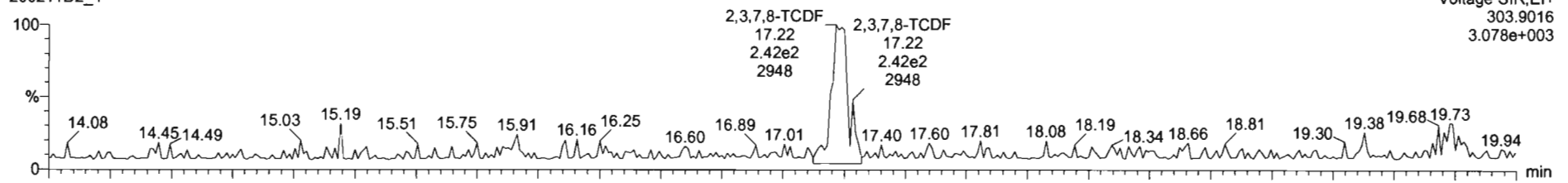
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

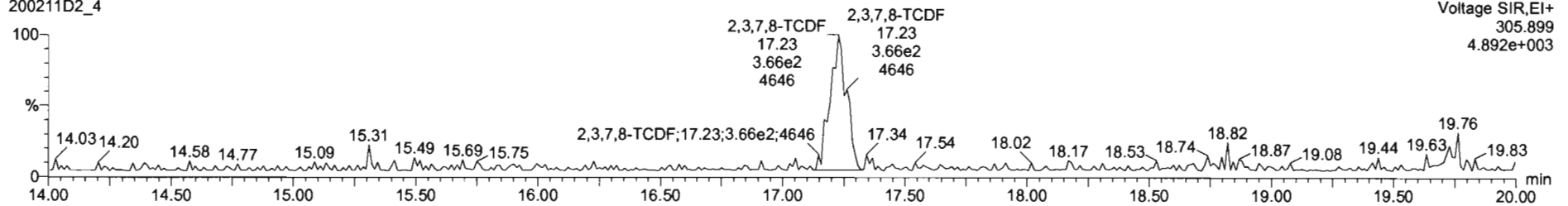
Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

2,3,7,8-TCDF

200211D2_4

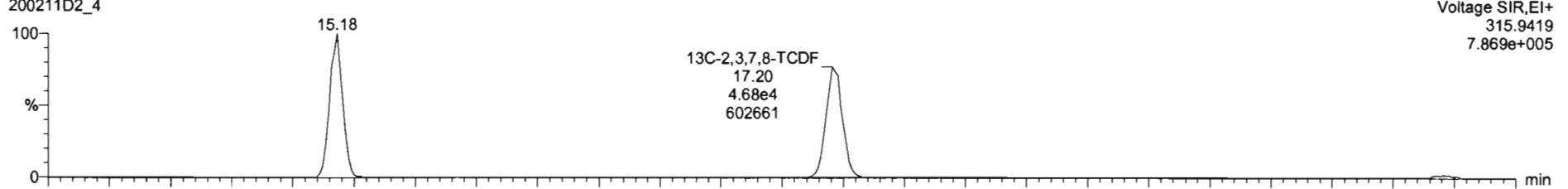


200211D2_4

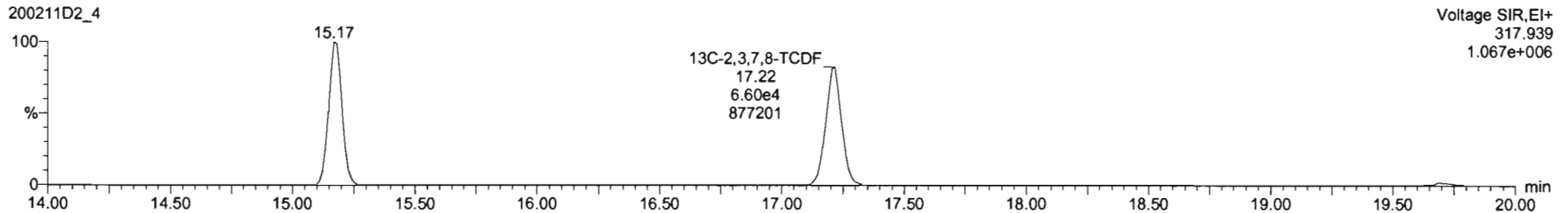


13C-2,3,7,8-TCDF

200211D2_4



200211D2_4



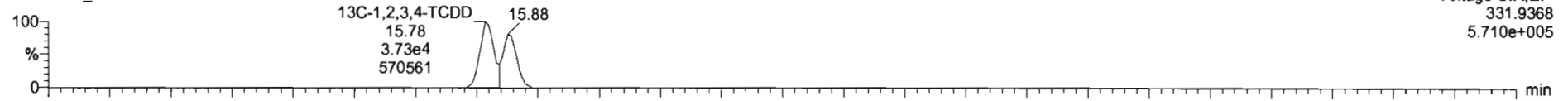
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

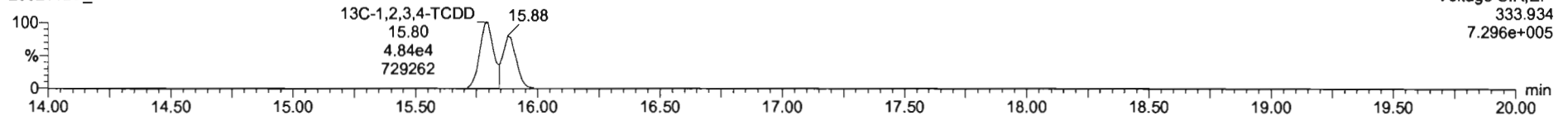
Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200211D2_4

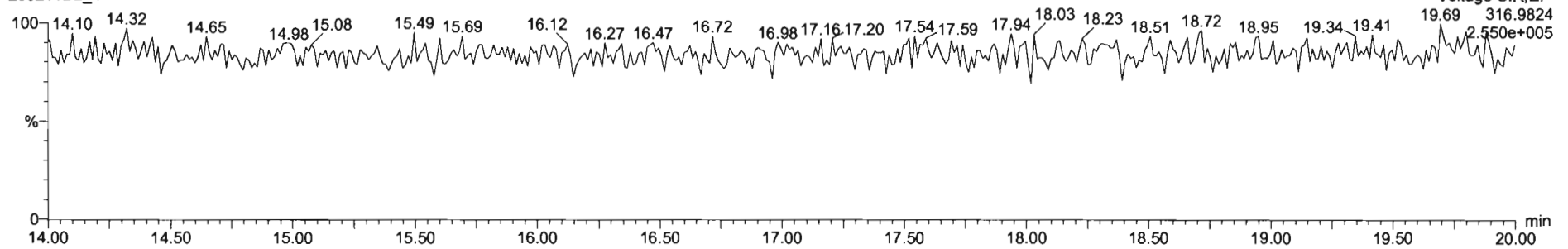


200211D2_4



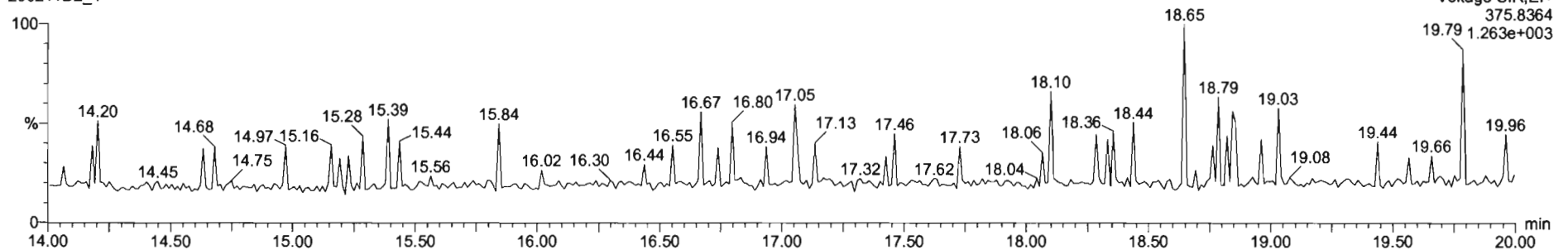
PFK1

200211D2_4



DPE1

200211D2_4



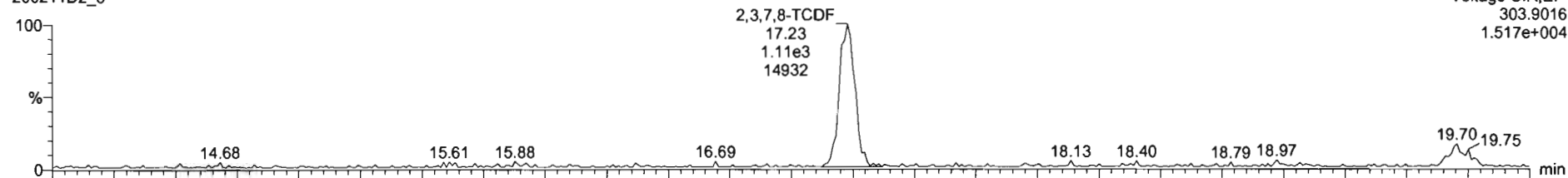
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

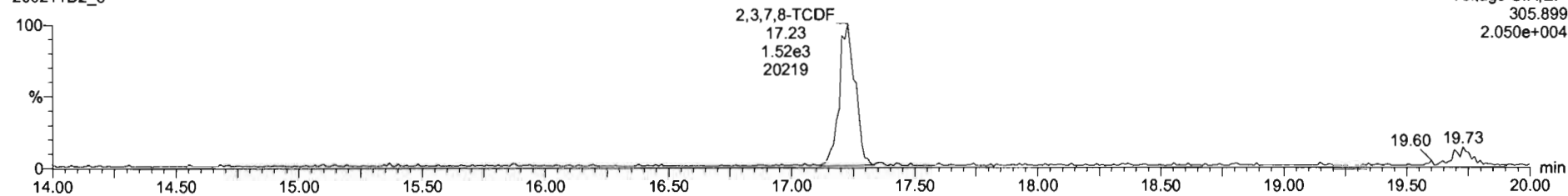
Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

2,3,7,8-TCDF

200211D2_5

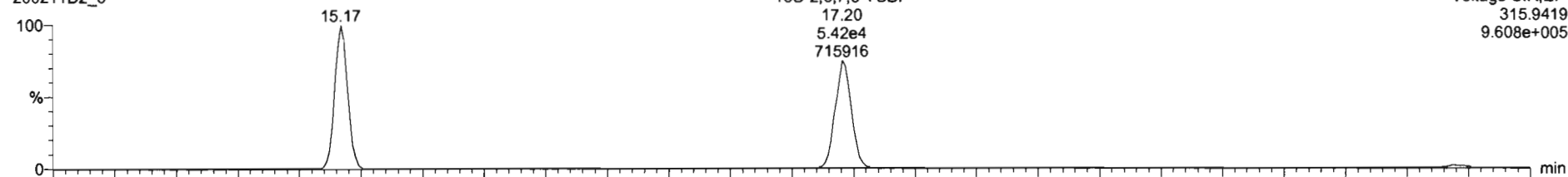


200211D2_5

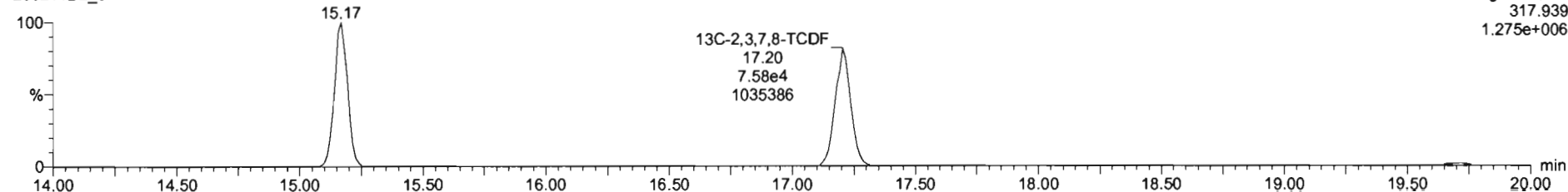


13C-2,3,7,8-TCDF

200211D2_5



200211D2_5

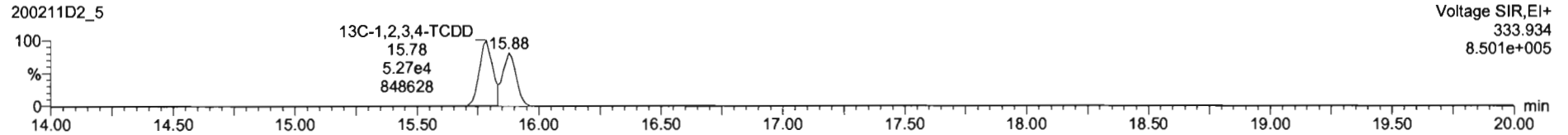
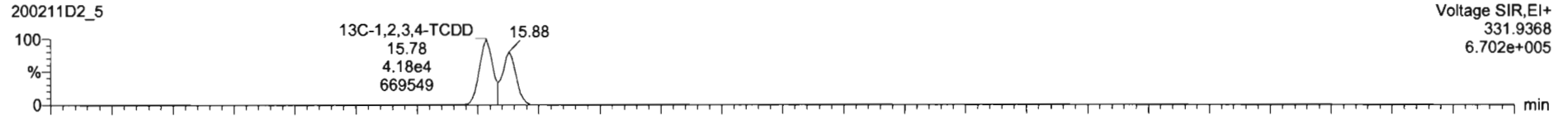


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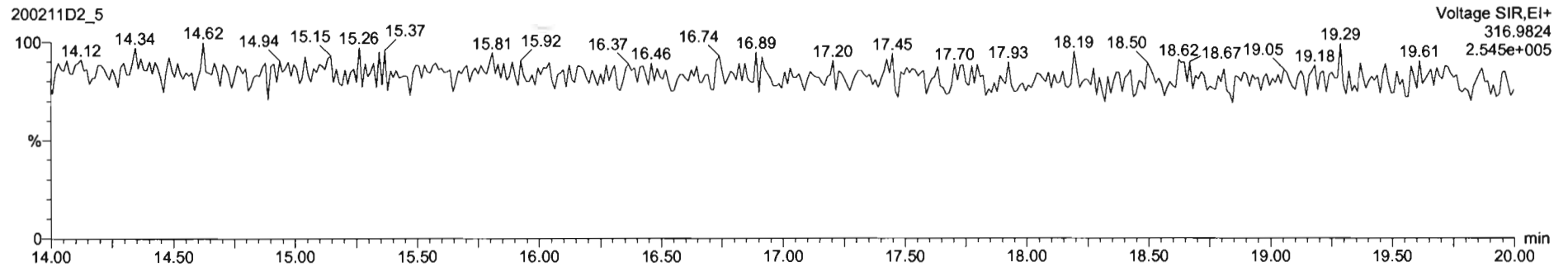
Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

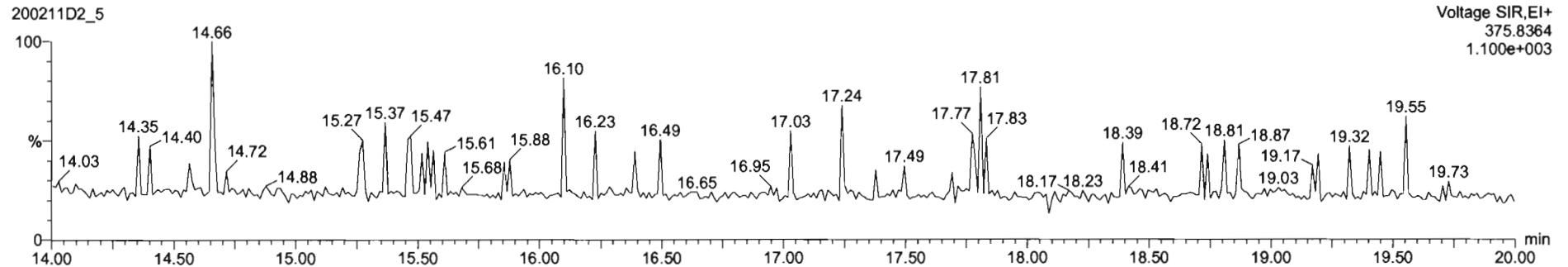
13C-1,2,3,4-TCDD



PFK1



DPE1



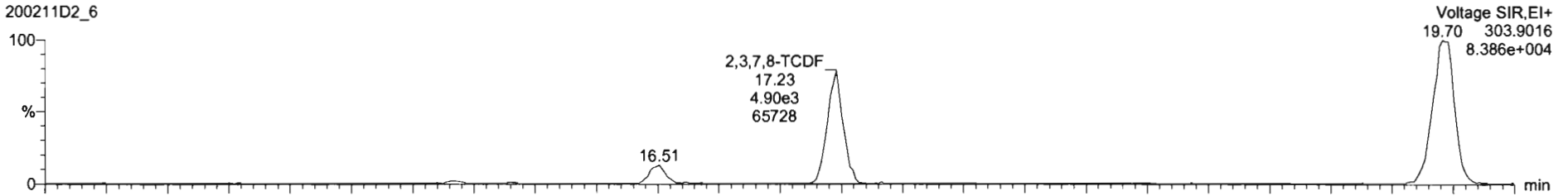
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

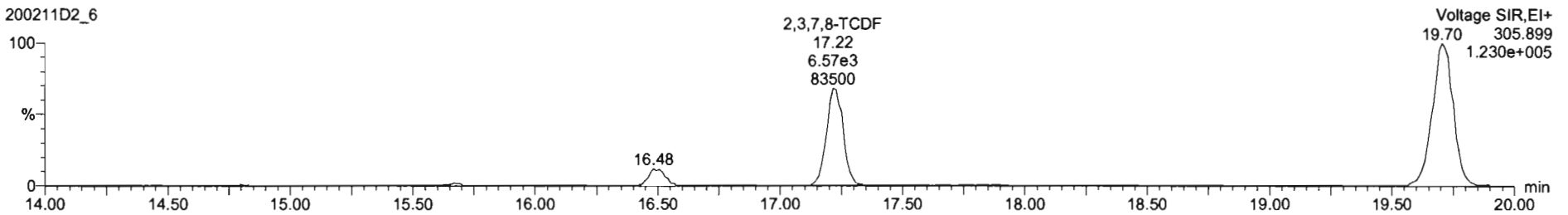
Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200211D2_6

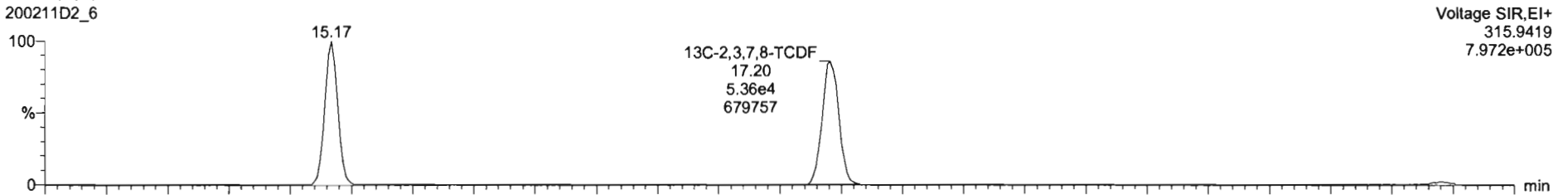


200211D2_6

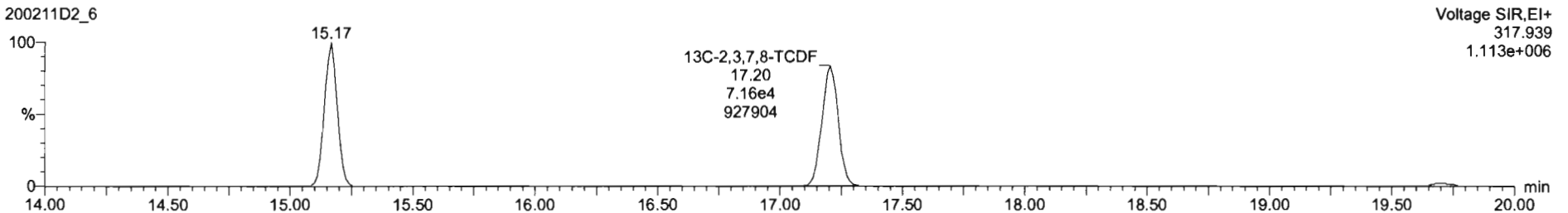


13C-2,3,7,8-TCDF

200211D2_6



200211D2_6



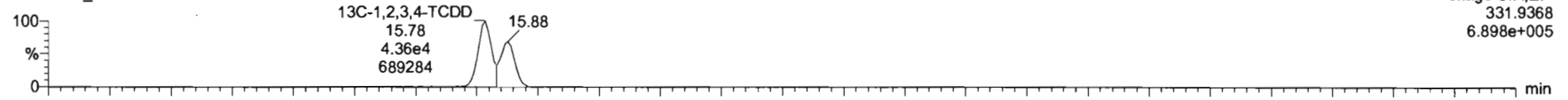
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

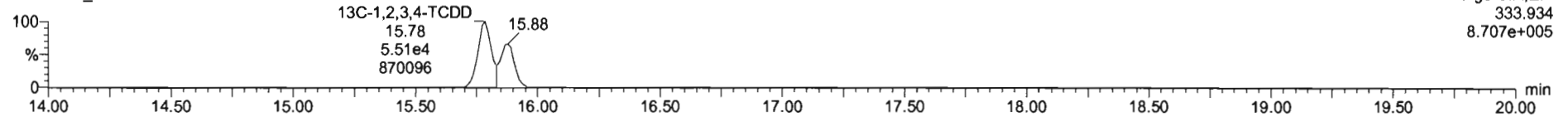
Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200211D2_6

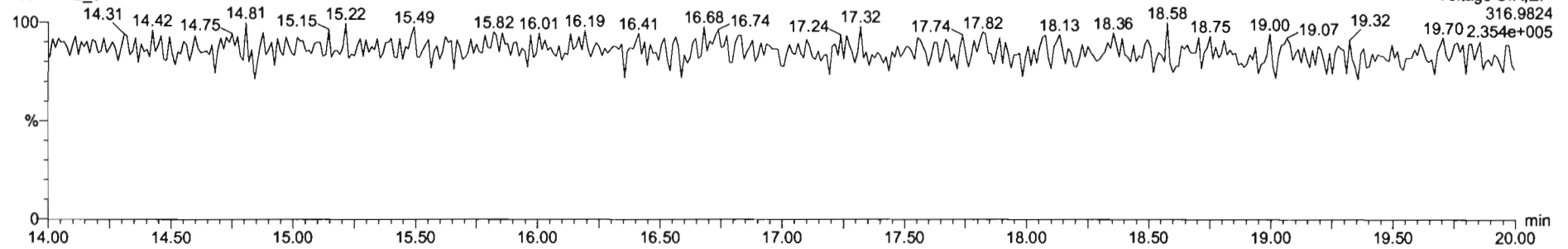


200211D2_6



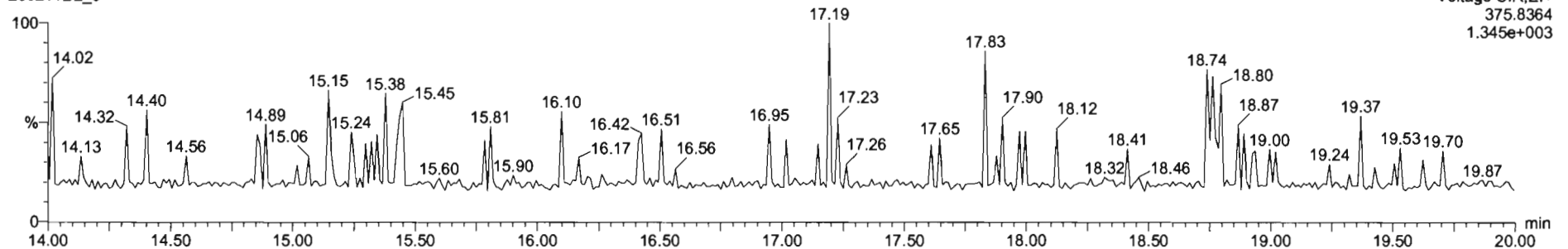
PFK1

200211D2_6



DPE1

200211D2_6



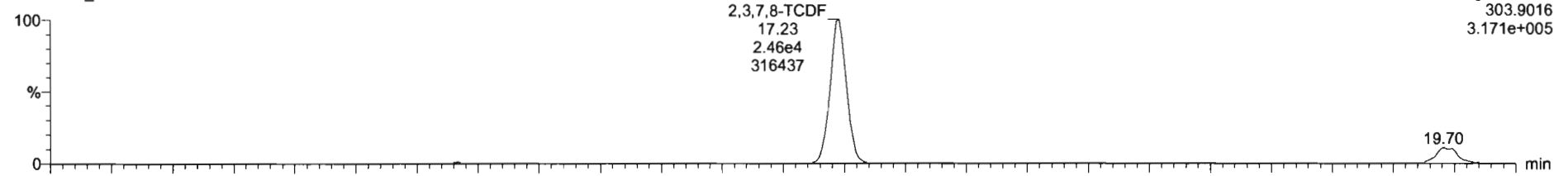
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

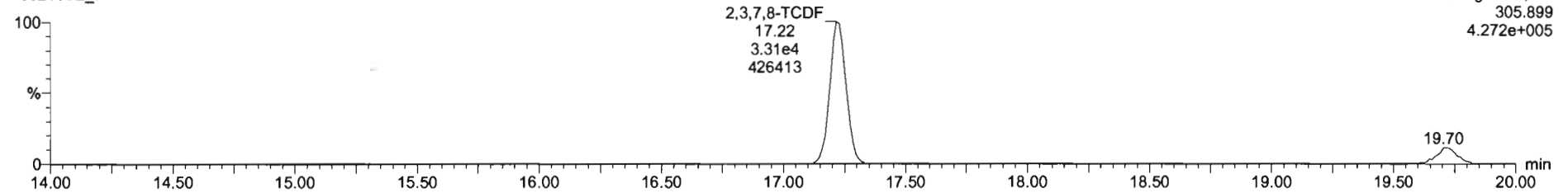
Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

2,3,7,8-TCDF

200211D2_7

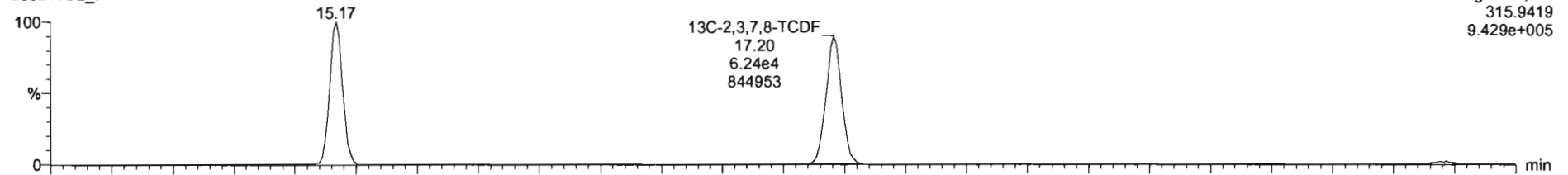


200211D2_7

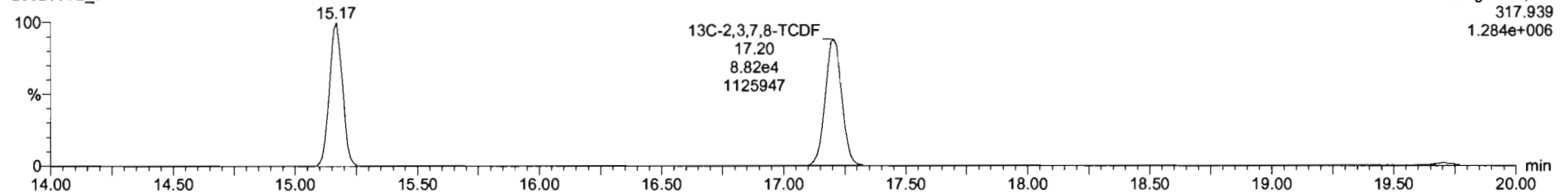


13C-2,3,7,8-TCDF

200211D2_7



200211D2_7



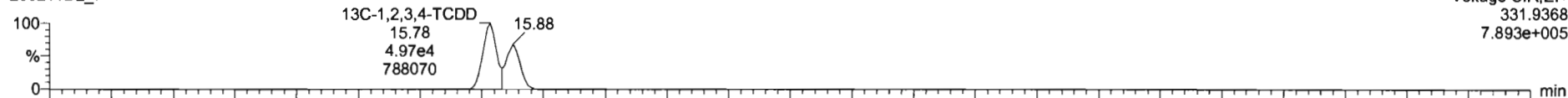
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

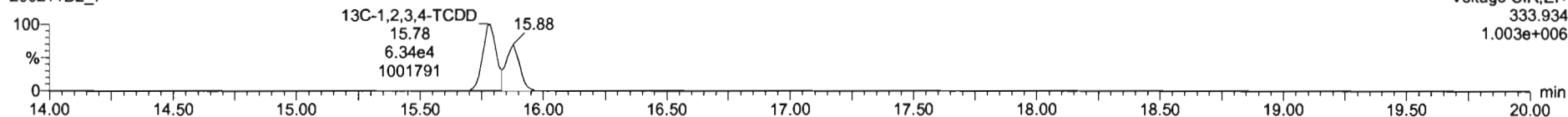
Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200211D2_7

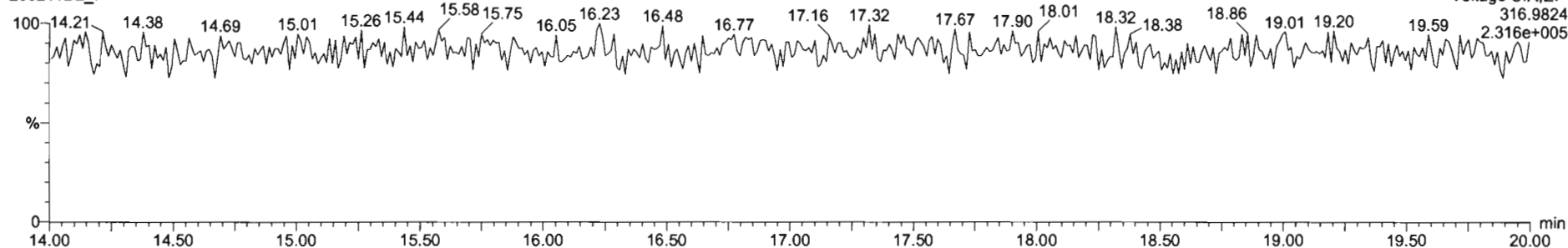


200211D2_7



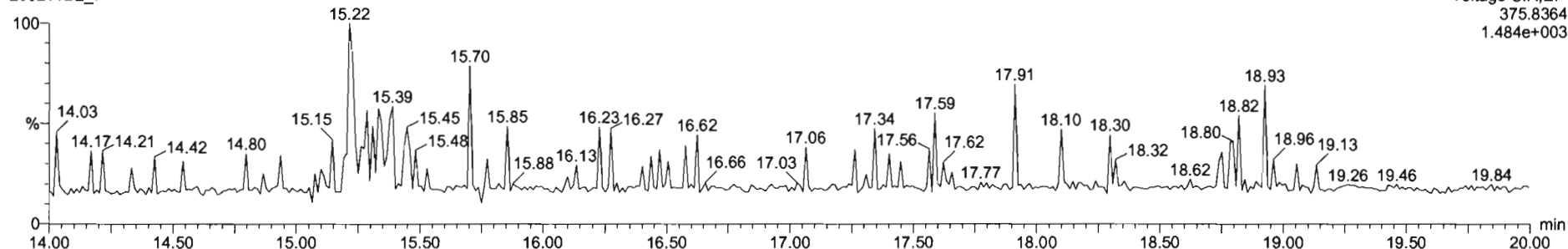
PFK1

200211D2_7



DPE1

200211D2_7



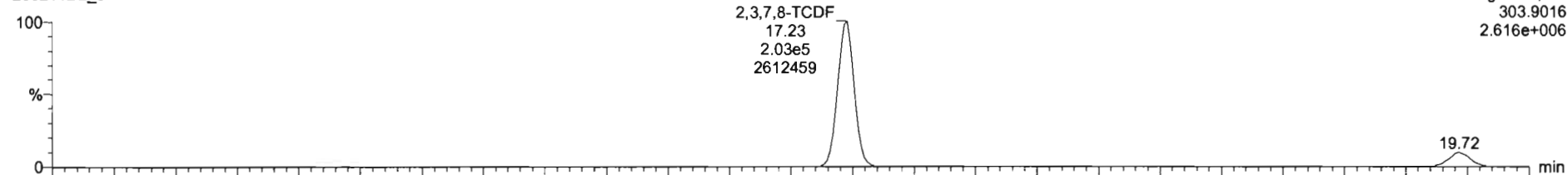
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

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

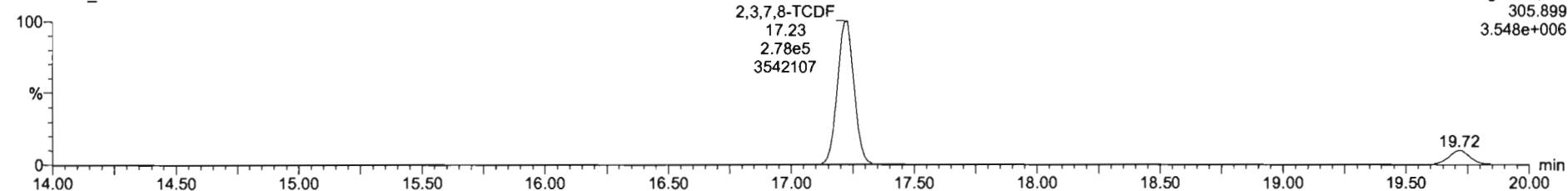
2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
303.9016
2.616e+006

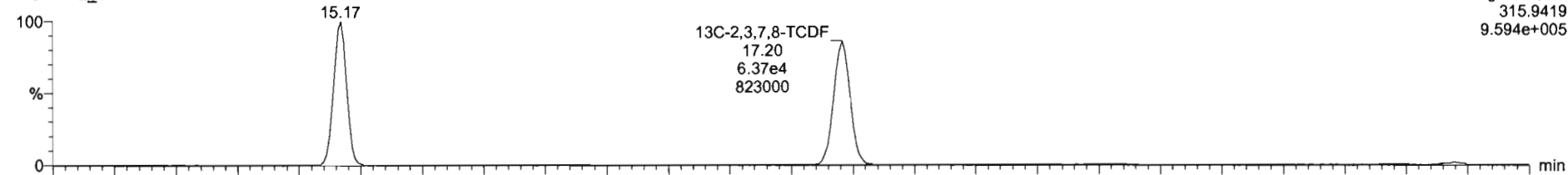
200211D2_8



Voltage SIR,EI+
305.899
3.548e+006

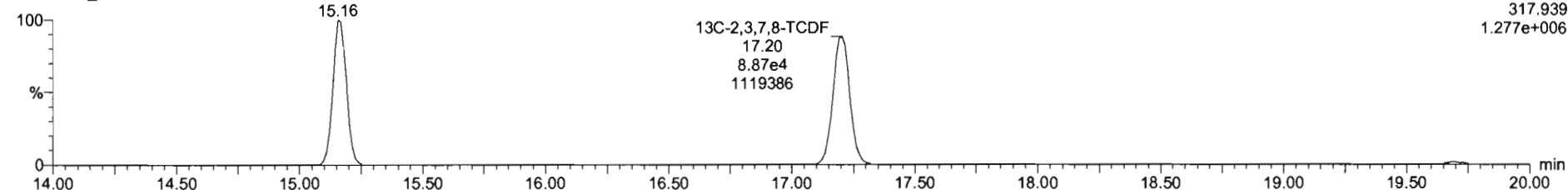
13C-2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
315.9419
9.594e+005

200211D2_8



Voltage SIR,EI+
317.939
1.277e+006

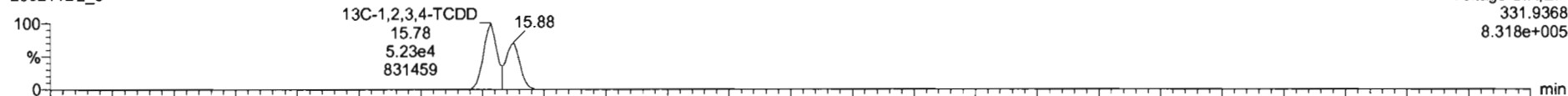
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

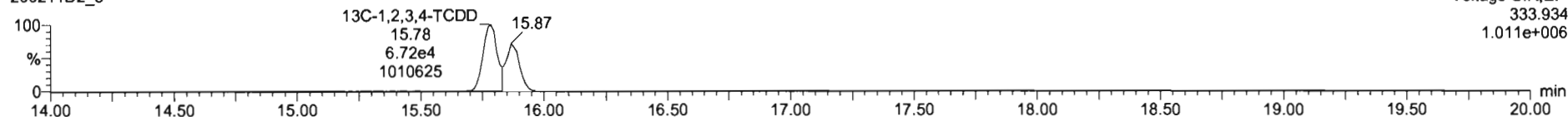
Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200211D2_8

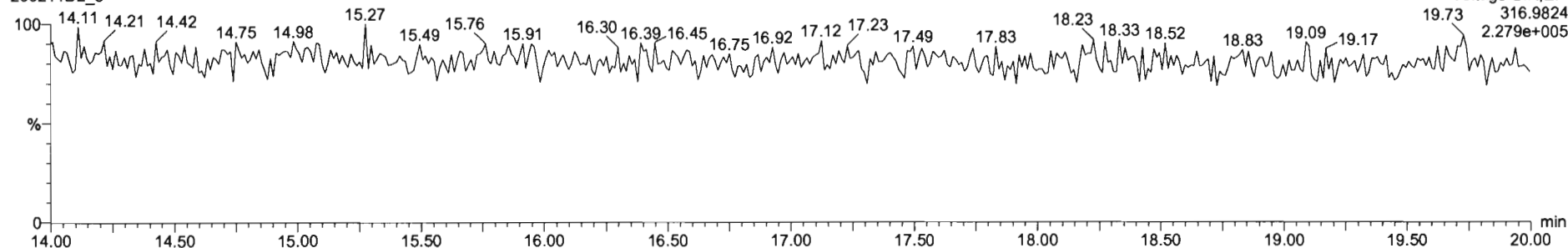


200211D2_8



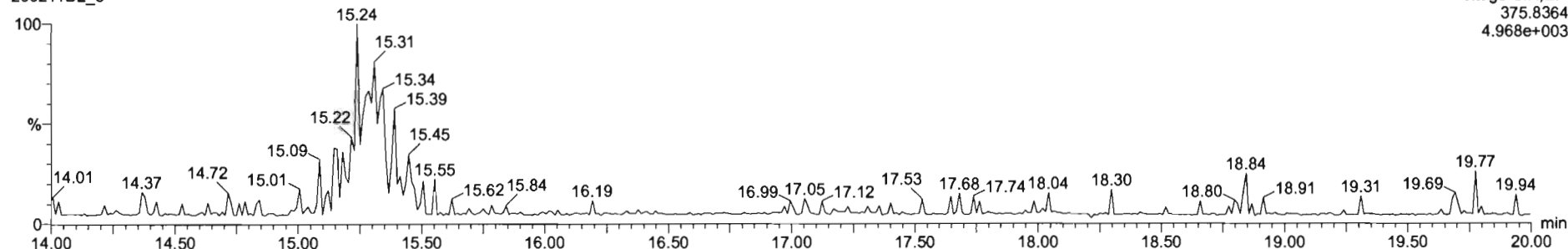
PFK1

200211D2_8

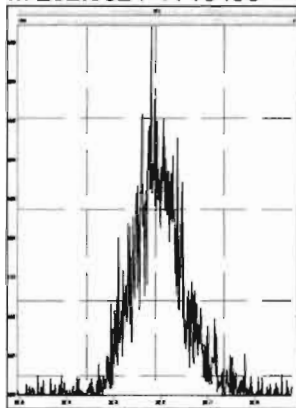


DPE1

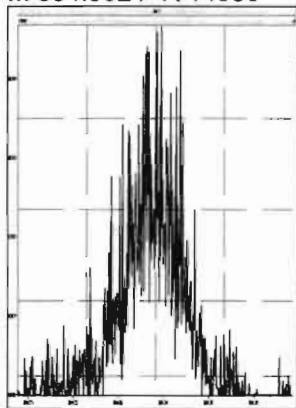
200211D2_8



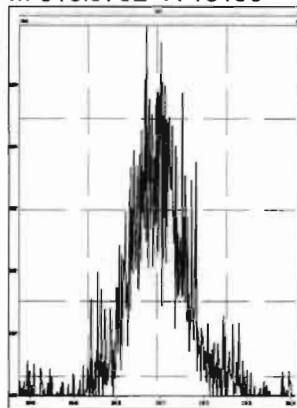
M 292.9824 R 13493



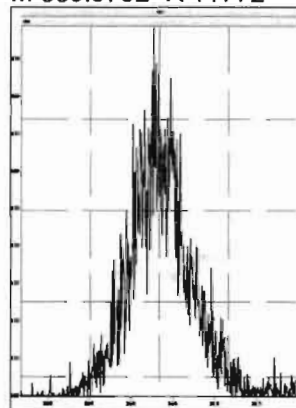
M 304.9824 R 14983



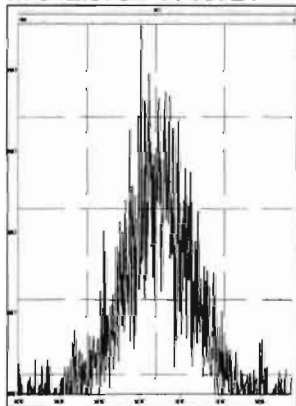
M 318.9792 R 15196



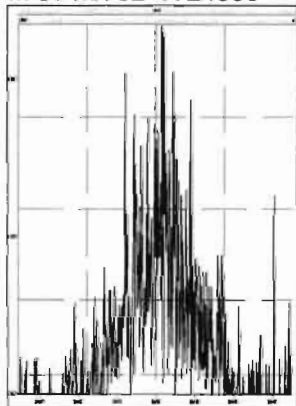
M 330.9792 R 11772



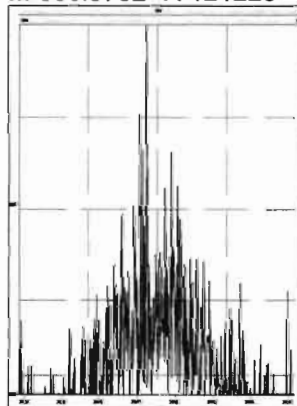
M 342.9792 R 13721



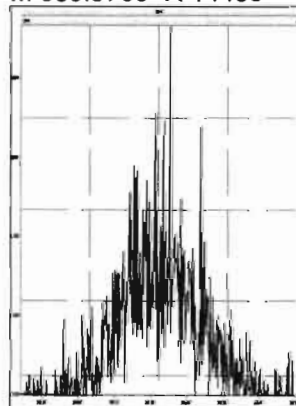
M 354.9792 R 24553



M 366.9792 R 121228



M 380.9760 R 14409



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:52:52 Pacific Standard Time

DB 2/12/20 07:52/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	1.29e4	0.77	NO	0.982	1.000	17.22	10.800	108	0.183
2	13C-2,3,7,8-TCDF	1.22e5	0.73	NO	1.08	1.000	17.20	92.025	92.0	0.305
3	13C-1,2,3,4-TCDF	1.22e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.330
4	13C-1,2,3,4-TCDD	8.99e4	0.76	NO	1030	1.000	15.78	87.563	87.6	0.304

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

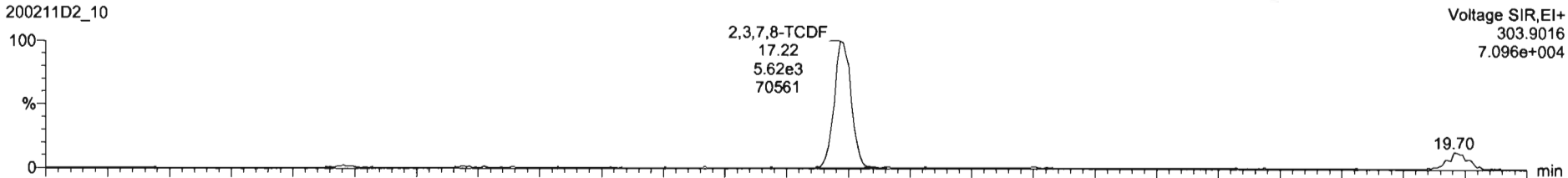
Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

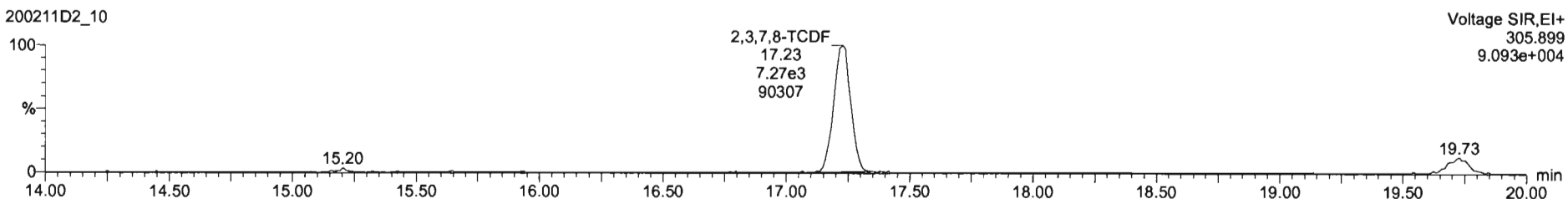
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDF

200211D2_10

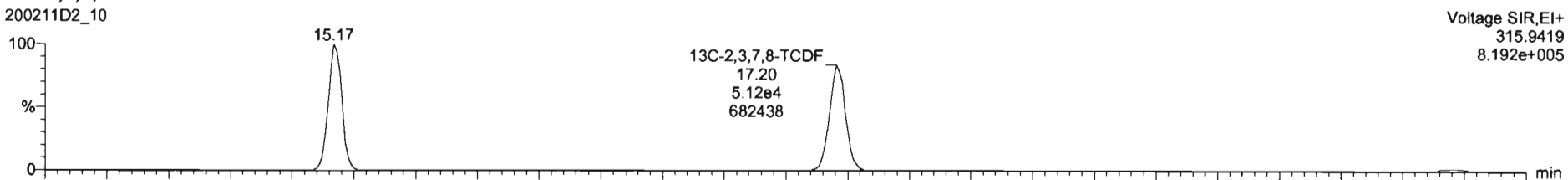


200211D2_10

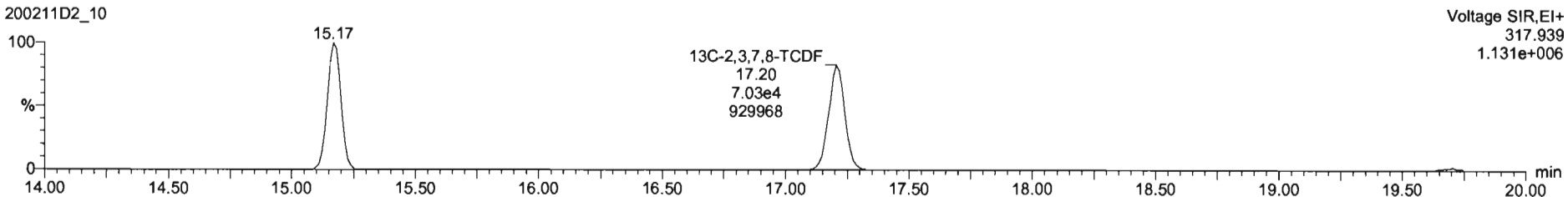


13C-2,3,7,8-TCDF

200211D2_10



200211D2_10



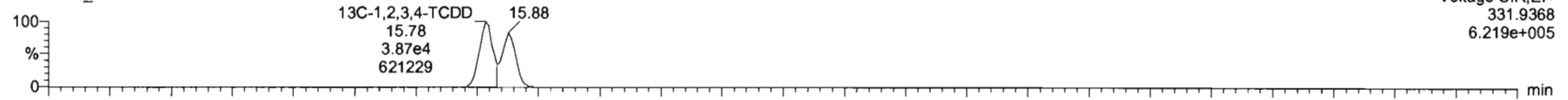
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Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

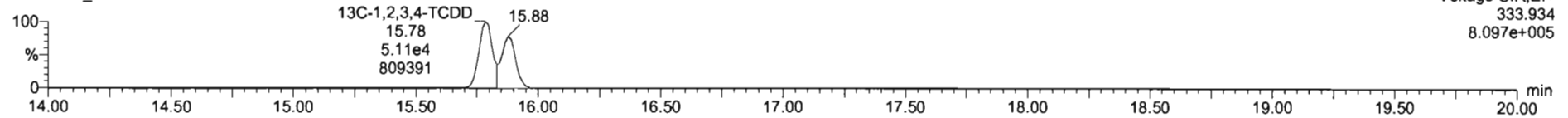
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200211D2_10

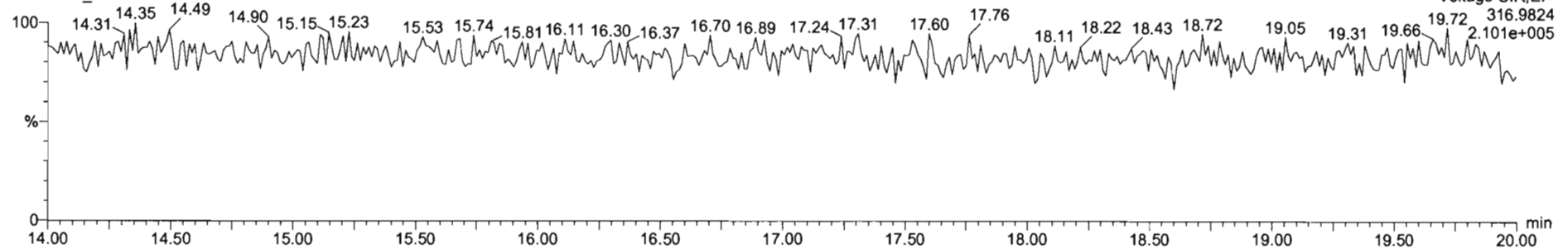


200211D2_10



PFK1

200211D2_10



DPE1

200211D2_10

