



May 22, 2020

Vista Work Order No. 2000946

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. 2000946

Case Narrative

Sample Condition on Receipt:

Eight sediment samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The results for the analyses of "PDI-162SC-A-00-01-200424" by EPA method 1668 was assigned to Vista Work Order No. 2000959.

Analytical Notes:

EPA Method 1613B

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

Holding Times

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

Quality Control

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

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

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

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2000946-01	PDI-162SC-A-00-01-200424	24-Apr-20 14:57	28-Apr-20 09:04	Amber Glass, 120 mL
2000946-02	PDI-162SC-A-02-03-200424	24-Apr-20 14:57	28-Apr-20 09:04	Amber Glass, 120 mL
2000946-03	PDI-162SC-A-03-04-200424	24-Apr-20 14:57	28-Apr-20 09:04	Amber Glass, 120 mL
2000946-04	PDI-162SC-A-04-05-200424	24-Apr-20 14:57	28-Apr-20 09:04	Amber Glass, 120 mL
2000946-05	PDI-162SC-A-05-06-200424	24-Apr-20 14:57	28-Apr-20 09:04	Amber Glass, 120 mL
2000946-06	PDI-162SC-A-06-07-200424	24-Apr-20 14:57	28-Apr-20 09:04	Amber Glass, 120 mL
2000946-07	PDI-162SC-A-07-08-200424	24-Apr-20 14:57	28-Apr-20 09:04	Amber Glass, 120 mL
2000946-08	PDI-162SC-A-08-09-200424	24-Apr-20 14:57	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: B0D0306 Date Extracted: 28-Apr-2020 14:00		Lab Sample: B0D0306-BLK1 Date Analyzed: 15-May-20 10:34 Column: ZB-5MS				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0604			IS 13C-2,3,7,8-TCDD	89.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0469			13C-1,2,3,7,8-PeCDD	112	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0678			13C-1,2,3,4,7,8-HxCDD	104	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0720			13C-1,2,3,6,7,8-HxCDD	94.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0756			13C-1,2,3,7,8,9-HxCDD	106	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.0610			13C-1,2,3,4,6,7,8-HpCDD	110	23 - 140	
OCDD	0.423			J	13C-OCDD	103	17 - 157	
2,3,7,8-TCDF	ND	0.0425			13C-2,3,7,8-TCDF	84.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0376			13C-1,2,3,7,8-PeCDF	108	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0344			13C-2,3,4,7,8-PeCDF	108	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0436			13C-1,2,3,4,7,8-HxCDF	98.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0424			13C-1,2,3,6,7,8-HxCDF	92.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0441			13C-2,3,4,6,7,8-HxCDF	99.4	28 - 136	
1,2,3,7,8,9-HxCDF	0.0633			J	13C-1,2,3,7,8,9-HxCDF	102	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0704			13C-1,2,3,4,6,7,8-HpCDF	100	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0727			13C-1,2,3,4,7,8,9-HpCDF	114	26 - 138	
OCDF	ND	0.0642			13C-OCDF	106	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	87.8	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin 0.00646			
TOTALS								
Total TCDD	ND	0.0604						
Total PeCDD	ND	0.0469						
Total HxCDD	ND	0.0756						
Total HpCDD	ND	0.0610						
Total TCDF	ND	0.0425						
Total PeCDF	ND	0.0376						
Total HxCDF	0.0633		0.0900					
Total HpCDF	ND	0.0727						

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

The results are reported in dry weight. The sample size is reported in wet weight.

Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid	QC Batch: B0D0306	Lab Sample: B0D0306-BS1					
Sample Size: 10.0 g	Date Extracted: 28-Apr-2020 14:00	Date Analyzed: 15-May-20 09:01	Column: ZB-5MS				
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	17.5	20.0	87.3	67 - 158	IS 13C-2,3,7,8-TCDD	80.6	20 - 175
1,2,3,7,8-PeCDD	89.7	100	89.7	70 - 142	13C-1,2,3,7,8-PeCDD	96.6	21 - 227
1,2,3,4,7,8-HxCDD	96.5	100	96.5	70 - 164	13C-1,2,3,4,7,8-HxCDD	93.3	21 - 193
1,2,3,6,7,8-HxCDD	99.3	100	99.3	76 - 134	13C-1,2,3,6,7,8-HxCDD	83.6	25 - 163
1,2,3,7,8,9-HxCDD	98.3	100	98.3	64 - 162	13C-1,2,3,7,8,9-HxCDD	94.7	21 - 193
1,2,3,4,6,7,8-HpCDD	100	100	100	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	98.5	26 - 166
OCDD	198	200	99.2	78 - 144	13C-OCDD	93.8	13 - 199
2,3,7,8-TCDF	19.6	20.0	98.1	75 - 158	13C-2,3,7,8-TCDF	77.7	22 - 152
1,2,3,7,8-PeCDF	96.2	100	96.2	80 - 134	13C-1,2,3,7,8-PeCDF	95.5	21 - 192
2,3,4,7,8-PeCDF	95.8	100	95.8	68 - 160	13C-2,3,4,7,8-PeCDF	95.4	13 - 328
1,2,3,4,7,8-HxCDF	106	100	106	72 - 134	13C-1,2,3,4,7,8-HxCDF	87.4	19 - 202
1,2,3,6,7,8-HxCDF	104	100	104	84 - 130	13C-1,2,3,6,7,8-HxCDF	83.6	21 - 159
2,3,4,6,7,8-HxCDF	105	100	105	70 - 156	13C-2,3,4,6,7,8-HxCDF	88.2	22 - 176
1,2,3,7,8,9-HxCDF	105	100	105	78 - 130	13C-1,2,3,7,8,9-HxCDF	92.8	17 - 205
1,2,3,4,6,7,8-HpCDF	109	100	109	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	89.1	21 - 158
1,2,3,4,7,8,9-HpCDF	108	100	108	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	105	20 - 186
OCDF	212	200	106	63 - 170	13C-OCDF	94.8	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	94.9	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-162SC-A-00-01-200424 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000946-01 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 19.5 g	QC Batch: B0D0306 Date Extracted: 28-Apr-2020 14:00
Date Collected: 24-Apr-2020 14:57	% Solids: 52.0	Date Analyzed : 16-May-20 10:44 Column: ZB-5MS 20-May-20 15:43 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.09				IS 13C-2,3,7,8-TCDD	68.0	25 - 164	
1,2,3,7,8-PeCDD	0.948			J	13C-1,2,3,7,8-PeCDD	85.9	25 - 181	
1,2,3,4,7,8-HxCDD	0.687			J	13C-1,2,3,4,7,8-HxCDD	81.2	32 - 141	
1,2,3,6,7,8-HxCDD	5.03				13C-1,2,3,6,7,8-HxCDD	80.8	28 - 130	
1,2,3,7,8,9-HxCDD	2.00			J	13C-1,2,3,7,8,9-HxCDD	90.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	120				13C-1,2,3,4,6,7,8-HpCDD	102	23 - 140	
OCDD	1430			B	13C-OCDD	104	17 - 157	
2,3,7,8-TCDF	78.7				13C-2,3,7,8-TCDF	62.9	24 - 169	
1,2,3,7,8-PeCDF	96.2				13C-1,2,3,7,8-PeCDF	81.5	24 - 185	
2,3,4,7,8-PeCDF	49.8				13C-2,3,4,7,8-PeCDF	81.0	21 - 178	
1,2,3,4,7,8-HxCDF	116				13C-1,2,3,4,7,8-HxCDF	77.7	26 - 152	
1,2,3,6,7,8-HxCDF	32.5				13C-1,2,3,6,7,8-HxCDF	77.9	26 - 123	
2,3,4,6,7,8-HxCDF	9.42				13C-2,3,4,6,7,8-HxCDF	84.3	28 - 136	
1,2,3,7,8,9-HxCDF	13.3			B	13C-1,2,3,7,8,9-HxCDF	86.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	64.9				13C-1,2,3,4,6,7,8-HpCDF	87.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	17.5				13C-1,2,3,4,7,8,9-HpCDF	102	26 - 138	
OCDF	124				13C-OCDF	99.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	68.4	35 - 197	

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

TEQMinWHO2005Dioxin	48.1
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TOTALS								
Total TCDD	11.5		11.7					
Total PeCDD	10.7		12.7					
Total HxCDD	56.5							
Total HpCDD	309							
Total TCDF	278							
Total PeCDF	314		323					
Total HxCDF	263			B				
Total HpCDF	218							

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-162SC-A-02-03-200424 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000946-02 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 19.1 g	QC Batch: B0D0306 Date Extracted: 28-Apr-2020 14:00
Date Collected: 24-Apr-2020 14:57	% Solids: 53.8	Date Analyzed : 16-May-20 11:30 Column: ZB-5MS 20-May-20 16:15 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	2.04				IS 13C-2,3,7,8-TCDD	60.2	25 - 164	
1,2,3,7,8-PeCDD	1.79			J	13C-1,2,3,7,8-PeCDD	85.0	25 - 181	
1,2,3,4,7,8-HxCDD	1.33			J	13C-1,2,3,4,7,8-HxCDD	82.5	32 - 141	
1,2,3,6,7,8-HxCDD	11.0				13C-1,2,3,6,7,8-HxCDD	81.7	28 - 130	
1,2,3,7,8,9-HxCDD	4.27				13C-1,2,3,7,8,9-HxCDD	93.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	458				13C-1,2,3,4,6,7,8-HpCDD	102	23 - 140	
OCDD	4620			B	13C-OCDD	109	17 - 157	
2,3,7,8-TCDF	76.6				13C-2,3,7,8-TCDF	53.1	24 - 169	
1,2,3,7,8-PeCDF	93.0				13C-1,2,3,7,8-PeCDF	80.4	24 - 185	
2,3,4,7,8-PeCDF	53.4				13C-2,3,4,7,8-PeCDF	77.3	21 - 178	
1,2,3,4,7,8-HxCDF	223				13C-1,2,3,4,7,8-HxCDF	79.6	26 - 152	
1,2,3,6,7,8-HxCDF	60.5				13C-1,2,3,6,7,8-HxCDF	78.0	26 - 123	
2,3,4,6,7,8-HxCDF	16.3				13C-2,3,4,6,7,8-HxCDF	85.1	28 - 136	
1,2,3,7,8,9-HxCDF	16.0			B	13C-1,2,3,7,8,9-HxCDF	86.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	198				13C-1,2,3,4,6,7,8-HpCDF	93.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	42.4				13C-1,2,3,4,7,8,9-HpCDF	106	26 - 138	
OCDF	395				13C-OCDF	102	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	63.2	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 72.0

TOTALS								
Total TCDD	18.7		19.0					
Total PeCDD	21.5		24.0					
Total HxCDD	118							
Total HpCDD	1040							
Total TCDF	320							
Total PeCDF	382		405					
Total HxCDF	493			B				
Total HpCDF	515							

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-162SC-A-03-04-200424 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000946-03 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 13.5 g	QC Batch: B0D0306 Date Extracted: 28-Apr-2020 14:00
Date Collected: 24-Apr-2020 14:57	% Solids: 81.0	Date Analyzed : 16-May-20 12:16 Column: ZB-5MS 20-May-20 16:46 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.178		IS 13C-2,3,7,8-TCDD	89.0	25 - 164	
1,2,3,7,8-PeCDD	0.234			J	13C-1,2,3,7,8-PeCDD	110	25 - 181	
1,2,3,4,7,8-HxCDD	0.176			J	13C-1,2,3,4,7,8-HxCDD	98.7	32 - 141	
1,2,3,6,7,8-HxCDD	1.01			J	13C-1,2,3,6,7,8-HxCDD	94.3	28 - 130	
1,2,3,7,8,9-HxCDD	0.485			J	13C-1,2,3,7,8,9-HxCDD	102	32 - 141	
1,2,3,4,6,7,8-HpCDD	23.4				13C-1,2,3,4,6,7,8-HpCDD	103	23 - 140	
OCDD	312			B	13C-OCDD	94.9	17 - 157	
2,3,7,8-TCDF	4.41				13C-2,3,7,8-TCDF	83.0	24 - 169	
1,2,3,7,8-PeCDF	5.44				13C-1,2,3,7,8-PeCDF	107	24 - 185	
2,3,4,7,8-PeCDF	2.96				13C-2,3,4,7,8-PeCDF	106	21 - 178	
1,2,3,4,7,8-HxCDF	13.0				13C-1,2,3,4,7,8-HxCDF	95.2	26 - 152	
1,2,3,6,7,8-HxCDF	7.49				13C-1,2,3,6,7,8-HxCDF	90.8	26 - 123	
2,3,4,6,7,8-HxCDF	1.82			J	13C-2,3,4,6,7,8-HxCDF	95.9	28 - 136	
1,2,3,7,8,9-HxCDF	1.08			J, B	13C-1,2,3,7,8,9-HxCDF	97.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	28.1				13C-1,2,3,4,6,7,8-HpCDF	97.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	2.70				13C-1,2,3,4,7,8,9-HpCDF	108	26 - 138	
OCDF	24.6				13C-OCDF	94.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	92.0	35 - 197	

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

TEQMinWHO2005Dioxin 4.88

TOTALS			
Total TCDD	0.778		1.09
Total PeCDD	2.00		2.29
Total HxCDD	9.99		
Total HpCDD	57.7		
Total TCDF	18.5		
Total PeCDF	26.1		26.2
Total HxCDF	43.5		B
Total HpCDF	58.2		

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-162SC-A-04-05-200424 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000946-04 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.8 g	QC Batch: B0D0306 Date Extracted: 28-Apr-2020 14:00
Date Collected: 24-Apr-2020 14:57	% Solids: 85.5	Date Analyzed : 16-May-20 13:03 Column: ZB-5MS 20-May-20 17:18 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0677			IS 13C-2,3,7,8-TCDD	85.3	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0781			13C-1,2,3,7,8-PeCDD	106	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0759			13C-1,2,3,4,7,8-HxCDD	93.1	32 - 141	
1,2,3,6,7,8-HxCDD	0.253			J	13C-1,2,3,6,7,8-HxCDD	89.1	28 - 130	
1,2,3,7,8,9-HxCDD	0.195			J	13C-1,2,3,7,8,9-HxCDD	96.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	5.35				13C-1,2,3,4,6,7,8-HpCDD	96.9	23 - 140	
OCDD	68.6			B	13C-OCDD	89.4	17 - 157	
2,3,7,8-TCDF	1.89				13C-2,3,7,8-TCDF	78.0	24 - 169	
1,2,3,7,8-PeCDF	1.47			J	13C-1,2,3,7,8-PeCDF	99.7	24 - 185	
2,3,4,7,8-PeCDF	0.914			J	13C-2,3,4,7,8-PeCDF	101	21 - 178	
1,2,3,4,7,8-HxCDF	2.38			J	13C-1,2,3,4,7,8-HxCDF	92.3	26 - 152	
1,2,3,6,7,8-HxCDF	0.790			J	13C-1,2,3,6,7,8-HxCDF	88.6	26 - 123	
2,3,4,6,7,8-HxCDF	0.255			J	13C-2,3,4,6,7,8-HxCDF	87.0	28 - 136	
1,2,3,7,8,9-HxCDF	0.359			J, B	13C-1,2,3,7,8,9-HxCDF	97.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	3.23				13C-1,2,3,4,6,7,8-HpCDF	91.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.465			J	13C-1,2,3,4,7,8,9-HpCDF	107	26 - 138	
OCDF	4.94			J	13C-OCDF	91.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	88.4	35 - 197	

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

TEQMinWHO2005Dioxin 1.04

TOTALS			
Total TCDD	0.200		0.335
Total PeCDD	0.315		0.536
Total HxCDD	2.58		
Total HpCDD	12.8		
Total TCDF	5.27		5.88
Total PeCDF	6.04		
Total HxCDF	6.36		B
Total HpCDF	7.83		

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-162SC-A-05-06-200424 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000946-05 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.5 g	QC Batch: B0D0306 Date Extracted: 28-Apr-2020 14:00
Date Collected: 24-Apr-2020 14:57	% Solids: 90.1	Date Analyzed: 16-May-20 13:49 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0390			IS 13C-2,3,7,8-TCDD	98.1	25 - 164	
1,2,3,7,8-PeCDD	0.0512			J	13C-1,2,3,7,8-PeCDD	120	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0525			13C-1,2,3,4,7,8-HxCDD	104	32 - 141	
1,2,3,6,7,8-HxCDD	0.0893			J	13C-1,2,3,6,7,8-HxCDD	99.5	28 - 130	
1,2,3,7,8,9-HxCDD	0.105			J	13C-1,2,3,7,8,9-HxCDD	105	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.35			J	13C-1,2,3,4,6,7,8-HpCDD	108	23 - 140	
OCDD	12.7			B	13C-OCDD	102	17 - 157	
2,3,7,8-TCDF	0.116			J	13C-2,3,7,8-TCDF	95.9	24 - 169	
1,2,3,7,8-PeCDF	0.110			J	13C-1,2,3,7,8-PeCDF	118	24 - 185	
2,3,4,7,8-PeCDF	ND		0.0822		13C-2,3,4,7,8-PeCDF	119	21 - 178	
1,2,3,4,7,8-HxCDF	0.203			J	13C-1,2,3,4,7,8-HxCDF	102	26 - 152	
1,2,3,6,7,8-HxCDF	ND		0.0785		13C-1,2,3,6,7,8-HxCDF	96.0	26 - 123	
2,3,4,6,7,8-HxCDF	0.0383			J	13C-2,3,4,6,7,8-HxCDF	101	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0251		13C-1,2,3,7,8,9-HxCDF	106	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND		0.445		13C-1,2,3,4,6,7,8-HpCDF	97.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0628			13C-1,2,3,4,7,8,9-HpCDF	117	26 - 138	
OCDF	0.697			J	13C-OCDF	99.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	97.4	35 - 197	

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

TEQMinWHO2005Dioxin 0.127

TOTALS				
Total TCDD	0.0837			
Total PeCDD	0.111	0.195		
Total HxCDD	1.17			
Total HpCDD	3.59			
Total TCDF	0.285			
Total PeCDF	0.255	0.474		
Total HxCDF	0.509	0.682	B	
Total HpCDF	0.561	1.01		

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

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

Sample ID: PDI-162SC-A-06-07-200424 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000946-06 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.9 g	QC Batch: B0D0306 Date Extracted: 28-Apr-2020 14:00
Date Collected: 24-Apr-2020 14:57	% Solids: 91.1	Date Analyzed: 16-May-20 14:35 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0506			IS 13C-2,3,7,8-TCDD	74.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0426			13C-1,2,3,7,8-PeCDD	106	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0444			13C-1,2,3,4,7,8-HxCDD	96.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0457			13C-1,2,3,6,7,8-HxCDD	93.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0479			13C-1,2,3,7,8,9-HxCDD	101	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.653			J	13C-1,2,3,4,6,7,8-HpCDD	105	23 - 140	
OCDD	6.55			B	13C-OCDD	92.7	17 - 157	
2,3,7,8-TCDF	ND	0.0400			13C-2,3,7,8-TCDF	64.2	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0345			13C-1,2,3,7,8-PeCDF	99.0	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0329			13C-2,3,4,7,8-PeCDF	96.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0246			13C-1,2,3,4,7,8-HxCDF	93.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0234			13C-1,2,3,6,7,8-HxCDF	89.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0230			13C-2,3,4,6,7,8-HxCDF	95.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0285		13C-1,2,3,7,8,9-HxCDF	97.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0535			13C-1,2,3,4,6,7,8-HpCDF	97.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0538			13C-1,2,3,4,7,8,9-HpCDF	111	26 - 138	
OCDF	0.142			J	13C-OCDF	96.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	76.5	35 - 197	

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

TEQMinWHO2005Dioxin 0.00854

TOTALS				
Total TCDD	0.0948			
Total PeCDD	ND	0.0426		
Total HxCDD	0.664			
Total HpCDD	1.79			
Total TCDF	ND	0.0400		
Total PeCDF	ND	0.0345		
Total HxCDF	ND		0.0465	
Total HpCDF	ND	0.0538		

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-162SC-A-07-08-200424 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000946-07 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.1 g	QC Batch: B0D0306 Date Extracted: 28-Apr-2020 14:00
Date Collected: 24-Apr-2020 14:57	% Solids: 83.6	Date Analyzed: 16-May-20 15:21 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.128		IS 13C-2,3,7,8-TCDD	69.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0813			13C-1,2,3,7,8-PeCDD	81.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0689			13C-1,2,3,4,7,8-HxCDD	70.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0735			13C-1,2,3,6,7,8-HxCDD	66.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0762			13C-1,2,3,7,8,9-HxCDD	71.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.20			J	13C-1,2,3,4,6,7,8-HpCDD	74.4	23 - 140	
OCDD	10.4			B	13C-OCDD	68.2	17 - 157	
2,3,7,8-TCDF	ND	0.0446			13C-2,3,7,8-TCDF	64.2	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0485			13C-1,2,3,7,8-PeCDF	76.3	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0431			13C-2,3,4,7,8-PeCDF	77.6	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0450			13C-1,2,3,4,7,8-HxCDF	69.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0455			13C-1,2,3,6,7,8-HxCDF	65.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0489			13C-2,3,4,6,7,8-HxCDF	61.1	28 - 136	
1,2,3,7,8,9-HxCDF	0.0602			J, B	13C-1,2,3,7,8,9-HxCDF	71.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0636			13C-1,2,3,4,6,7,8-HpCDF	67.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0584			13C-1,2,3,4,7,8,9-HpCDF	83.9	26 - 138	
OCDF	ND	0.0914			13C-OCDF	64.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	102	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0211

TOTALS								
Total TCDD	0.403		0.971					
Total PeCDD	0.244		0.598					
Total HxCDD	1.69							
Total HpCDD	3.49							
Total TCDF	ND	0.0446						
Total PeCDF	ND		0.0665					
Total HxCDF	0.0602			B				
Total HpCDF	ND	0.0636						

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-162SC-A-08-09-200424 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000946-08 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 13.1 g	QC Batch: B0D0306 Date Extracted: 28-Apr-2020 14:00
Date Collected: 24-Apr-2020 14:57	% Solids: 78.6	Date Analyzed: 16-May-20 16:07 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0367			IS 13C-2,3,7,8-TCDD	101	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0388			13C-1,2,3,7,8-PeCDD	113	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0465			13C-1,2,3,4,7,8-HxCDD	101	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0473			13C-1,2,3,6,7,8-HxCDD	92.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0525			13C-1,2,3,7,8,9-HxCDD	101	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.472			J	13C-1,2,3,4,6,7,8-HpCDD	102	23 - 140	
OCDD	3.99			J, B	13C-OCDD	94.7	17 - 157	
2,3,7,8-TCDF	ND	0.0253			13C-2,3,7,8-TCDF	97.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0282			13C-1,2,3,7,8-PeCDF	112	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0253			13C-2,3,4,7,8-PeCDF	111	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0249			13C-1,2,3,4,7,8-HxCDF	96.6	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0221			13C-1,2,3,6,7,8-HxCDF	91.2	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0225			13C-2,3,4,6,7,8-HxCDF	96.5	28 - 136	
1,2,3,7,8,9-HxCDF	0.0424			J, B	13C-1,2,3,7,8,9-HxCDF	98.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0441			13C-1,2,3,4,6,7,8-HpCDF	97.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0464			13C-1,2,3,4,7,8,9-HpCDF	110	26 - 138	
OCDF	0.0757			J	13C-OCDF	97.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	109	35 - 197	

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

TEQMinWHO2005Dioxin 0.0102

TOTALS								
Total TCDD	0.103							
Total PeCDD	ND	0.0388						
Total HxCDD	0.573							
Total HpCDD	1.33							
Total TCDF	ND	0.0253						
Total PeCDF	ND	0.0282						
Total HxCDF	0.0662			B				
Total HpCDF	ND	0.0464						

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

2000946
 3.4°C 4.1°C
 WWS 04/29/20
 COC ID:

VISTA-20200424-154334

POC: # Delaney Peterson (360-715-2707)

Project: Gasco PDI

Sample Custodian: CO

1605 Cornwall Avenue, Bellingham, WA 98225

Client: NW Natural

Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-162SC-A-00-01-200424	N	SE	04/24/2020	14:57	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								PCB Congeners (A)	E1668A	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
002	PDI-162SC-A-02-03-200424	N	SE	04/24/2020	14:57	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
003	PDI-162SC-A-03-04-200424	N	SE	04/24/2020	14:57	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
004	PDI-162SC-A-04-05-200424	N	SE	04/24/2020	14:57	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
005	PDI-162SC-A-05-06-200424	N	SE	04/24/2020	14:57	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
006	PDI-162SC-A-06-07-200424	N	SE	04/24/2020	14:57	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
007	PDI-162SC-A-07-08-200424	N	SE	04/24/2020	14:57	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C

Comment: (A) WO 2000959

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: Sashy Norwood	Print Name: William Wright	Print Name:	Print Name:	Print Name:	Print Name:
Company: Anchor QEA	Company: DAL	Company:	Company:	Company:	Company:
Date/Time: 4/27/20 12:30	Date/Time: 04/28/20 09:04	Date/Time:	Date/Time:	Date/Time:	Date/Time:

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

2000946
 3.4°C
 4.1°C
 250412912 COC ID:

VISTA-20200424-154334

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

Project: Gasco PDI
Client: NW Natural

Sample Custodian: CO
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
007	PDI-162SC-A-07-08-200424	N	SE	04/24/2020	14:57	1	<input type="checkbox"/>				
								Total solids (VISTA)	SM2540G	7	4°C
008	PDI-162SC-A-08-09-200424	N	SE	04/24/2020	14:57	1	<input type="checkbox"/>				
								Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C

Comment:					
Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

* 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 #: 2000946

 TAT 7

Samples Arrival:	Date/Time <u>4/28/20 09:04</u>		Initials: <u>WRW</u>		Location: <u>WR-2</u>		
					Shelf/Rack: <u>NA</u>		
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GLS	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice		<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Dry Ice		<input type="checkbox"/> None
Temp °C: <u>4.1</u>	(uncorrected)		Probe used: Y <input checked="" type="checkbox"/> N		Thermometer ID: <u>IR-3</u>		
Temp °C: <u>4.1</u>	(corrected)						

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u>2 of 3</u> Trk # <u>7703 3190 0660</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose	
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logged In:	Date/Time <u>04/28/20 1011</u>		Initials: <u>KS</u>
	Location: <u>WR-2</u>		Shelf/Rack: <u>G-4</u>
COC Anomaly/Sample Acceptance Form completed?			<input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

 Comments: COC in cooler 3 of 3

CoC/Label Reconciliation Report WO# 2000946

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2000946-01	A PDI-162SC-A-00-01-200424	<input checked="" type="checkbox"/>	24-Apr-20 14:57	Amber Glass, 120 mL	Solid	
2000946-02	A PDI-162SC-A-02-03-200424	<input checked="" type="checkbox"/>	24-Apr-20 14:57	Amber Glass, 120 mL	Solid	
2000946-03	A PDI-162SC-A-03-04-200424	<input checked="" type="checkbox"/>	24-Apr-20 14:57	Amber Glass, 120 mL	Solid	
2000946-04	A PDI-162SC-A-04-05-200424	<input checked="" type="checkbox"/>	24-Apr-20 14:57	Amber Glass, 120 mL	Solid	
2000946-05	A PDI-162SC-A-05-06-200424	<input checked="" type="checkbox"/>	24-Apr-20 14:57	Amber Glass, 120 mL	Solid	
2000946-06	A PDI-162SC-A-06-07-200424	<input checked="" type="checkbox"/>	24-Apr-20 14:57	Amber Glass, 120 mL	Solid	
2000946-07	A PDI-162SC-A-07-08-200424	<input checked="" type="checkbox"/>	24-Apr-20 14:57	Amber Glass, 120 mL	Solid	
2000946-08	A PDI-162SC-A-08-09-200424	<input checked="" type="checkbox"/>	24-Apr-20 14:57	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: 2000946

Prep Expiration: 2021-04-24
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: BODD 306

Prep Data Entered: DFOS/08/20
Date and Initials

Initial Sequence: SOE0027

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2000946-01	<input checked="" type="checkbox"/>	PDI-162SC-A-00-01-200424	28-Apr-20 09:04	WR-2 G-4	
2000946-02	<input checked="" type="checkbox"/>	PDI-162SC-A-02-03-200424	28-Apr-20 09:04	WR-2 G-4	
2000946-03	<input checked="" type="checkbox"/>	PDI-162SC-A-03-04-200424	28-Apr-20 09:04	WR-2 G-4	
2000946-04	<input checked="" type="checkbox"/>	PDI-162SC-A-04-05-200424	28-Apr-20 09:04	WR-2 G-4	
2000946-05	<input checked="" type="checkbox"/>	PDI-162SC-A-05-06-200424	28-Apr-20 09:04	WR-2 G-4	
2000946-06	<input checked="" type="checkbox"/>	PDI-162SC-A-06-07-200424	28-Apr-20 09:04	WR-2 G-4	
2000946-07	<input checked="" type="checkbox"/>	PDI-162SC-A-07-08-200424	28-Apr-20 09:04	WR-2 G-4	
2000946-08	<input checked="" type="checkbox"/>	PDI-162SC-A-08-09-200424	28-Apr-20 09:04	WR-2 G-4	

WO Comments: Pest - 1g extraction (dry weight). DDX, Aldrin, 5-Chlordane, Dieldrin, Lindane
 Dioxin - 10g (dry weight)
 PCB - 5g extraction (dry weight)

AZ 04/28/20

Pre-Prep Check Out: CHT 04/28/20
Pre-Prep Check In: NA

Prep Check Out: AO 04/28/20
Prep Check In: AO 04/28/20

Prep Reconciled Initials/Date: CHT 04/28/20
Spike Reconciled Initials/Date: AZ 04/28/20
VialBoxID: F-35C

PREPARATION BENCH SHEET

Matrix: Solid

B0D0306

Chemist: AO

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 28-Apr-20 14:00

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"/>	B0D0306-BLK1	(10.00)	(10.00)	AO AZ 04/28/20	AO AZ 04/29/20	NA	AO 04/29/20	AO 04/29/20	AO 04/29/20	AO 04/28/20
<input type="checkbox"/>	B0D0306-BS1	(10.00)	(10.00)							
<input type="checkbox"/>	B0D0306-DUP1 2000945-02	11.31	11.39							
<input type="checkbox"/>	2000945-01	13.97	14.29							
<input type="checkbox"/>	2000945-02	11.31	12.02							
<input type="checkbox"/>	2000945-03	11.82	12.11							
<input type="checkbox"/>	2000945-04	12.93	12.98							
<input type="checkbox"/>	2000945-05	11.56	11.68							
<input type="checkbox"/>	2000945-06	12.74	12.84							
<input type="checkbox"/>	2000945-07	13.12	14.13							
<input type="checkbox"/>	2000945-08	13.02	13.17							
<input type="checkbox"/>	2000946-01	19.23	19.45							
<input type="checkbox"/>	2000946-02	18.57	19.14							
<input type="checkbox"/>	2000946-03	12.35	13.48							
<input type="checkbox"/>	2000946-04	11.65	11.77							

IS Name <u>19L</u> PCDD/F <u>2501, 10μL</u>	NS Name <u>V2</u> PCDD/F <u>18F1913, 10μL</u>	CRS Name <u>U2</u> PCDD/F <u>19I1602, 10μL</u>	RS Name <u>V2</u> PCDD/F <u>17I1603, 10μL</u>	Cycle Time Start Date/Time <u>1455</u> 04/28/20	APP: SEFUN SOX <u>SDS</u> SOLV: <u>TO1</u> Other <u>NA</u>	Check Out: Chemist/Date: <u>AO 04/28/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>0655</u> 04/29/20	Final Volume(s) <u>20μL</u> <u>C14</u>	Check In: Chemist/Date: <u>AO 04/28/20</u>
PAH _____	PAH _____	PAH _____	PAH _____			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

(3) AZ 04/29/20

* AO 04/28/20

(A) Soxhlet stuck on RB, transferred to new RB AO 04/29/20

PREPARATION BENCH SHEET

Matrix: Solid

B0D0306

Chemist: AO

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 28-Apr-20 14:00

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"/>	2000946-05	11.10	11.48	NO AZ 04/28/20	AO AZ 04/29/20	NA	AO 04/29/20	AO 04/29/20	AO 04/29/20	AO 04/29/20
<input type="checkbox"/>	2000946-06	10.97	11.93	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000946-07	11.96	12.09	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000946-08	12.72	13.13	↓	↓	↓	↓	↓	↓	↓

IS Name <u>V2</u>	NS Name <u>V2</u>	CRS Name <u>V2</u>	RS Name <u>V2</u>	Cycle Time	APP: SEFUN SOX <u>(SDS)</u>	Check Out: Chemist/Date: <u>AO 04/28/20</u>
PCDD/F <u>19C2301, 10ML</u>	PCDD/F <u>18F1913, 10ML</u>	PCDD/F <u>19I1602, 10ML</u>	PCDD/F <u>19I1603, 10ML</u>	Start Date/Time <u>1455 04/28/20</u>	SOLV: <u>Tol</u>	Check In: Chemist/Date: <u>AO 04/28/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>0455 04/29/20</u>	Other <u>NA</u>	Balance ID: <u>HRMS 9</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>19</u>	<u>20ML</u>	

Comments:

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

Batch: B0D0306

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000945-01	14.29	70.38008	10.0573	20	28-Apr-20 14:00	ACO			Sediment	1613 Full List
2000945-02	12.02	88.02281	10.5803	20	28-Apr-20 14:00	ACO			Sediment	1613 Full List
2000945-03	12.11	82.77512	10.0241	20	28-Apr-20 14:00	ACO			Sediment	1613 Full List
2000945-04	12.98	76.52174	9.9325	20	28-Apr-20 14:00	ACO			Sediment	1613 Full List
2000945-05	11.68	86.85567	10.1447	20	28-Apr-20 14:00	ACO			Sediment	1613 Full List
2000945-06	12.84	87.55868	11.2425	20	28-Apr-20 14:00	ACO			Sediment	1613 Full List
2000945-07	14.13	76.51006	10.8109	20	28-Apr-20 14:00	ACO			Sediment	1613 Full List
2000945-08	13.17	75.70281	9.9701	20	28-Apr-20 14:00	ACO			Sediment	1613 Full List
2000946-01	19.45	52	10.1140	20	28-Apr-20 14:00	ACO			Sediment	1613 Full List
2000946-02	19.14	53.84615	10.3062	20	28-Apr-20 14:00	ACO			Sediment	1613 Full List
2000946-03	13.48	80.95238	10.9124	20	28-Apr-20 14:00	ACO			Sediment	1613 Full List
2000946-04	11.77	85.53719	10.0677	20	28-Apr-20 14:00	ACO			Sediment	1613 Full List
2000946-05	11.48	90.07264	10.3403	20	28-Apr-20 14:00	ACO			Sediment	1613 Full List
2000946-06	11.93	91.14833	10.8740	20	28-Apr-20 14:00	ACO			Sediment	1613 Full List
2000946-07	12.09	83.58208	10.1051	20	28-Apr-20 14:00	ACO			Sediment	1613 Full List
2000946-08	13.13	78.63437	10.3247	20	28-Apr-20 14:00	ACO			Sediment	1613 Full List
B0D0306-BLK1	10			20	28-Apr-20 14:00	ACO				QC
B0D0306-BS1	10			20	28-Apr-20 14:00	ACO	18F1913	10		QC
B0D0306-DUP1	11.39	88.02281	10.0257981	20	28-Apr-20 14:00	ACO				QC

All bolded data on report verified against written benchsheet by (initial/date) DFOS/08/20

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0D0304

Analyst: CHT	Test Code: %Moist/%Solids	Data Entry Verified by: (Initial and Date) <i>AO 05/03/20</i>
Analyte: Dried at 110°C±5°C	Units: %	
Oven ID: 01 02		

Inst hms-9
Date/Time IN: 04/28/20 1234 Date/Time OUT: 4/29/2020 0704

Particle Size	SampID	SampType	Initial and Date:		Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection		pH Before	pH After	Acid Added	Sample Homogenized*
			Pan Tare Wt. (gms)	CHT 04/28/20					EM 04/29/20	CHT 04/28/20				
	2000946-01	Sample	1.3000		5.3000	3.4100	2.1100	52.75	DIRT	NA	NA	NA	NA	X
	2000946-02	Sample	1.3000		6.1100	3.9200	2.6200	54.47	DIRT	NA	NA	NA	NA	X
	2000946-03	Sample	1.3100		5.7200	4.9200	3.6100	81.86	DIRT	NA	NA	NA	NA	X
	2000946-04	Sample	1.3000		6.1400	5.4700	4.1700	86.16	DIRT	NA	NA	NA	NA	X
	2000946-05	Sample	1.3100		5.4400	5.0200	3.7100	89.83	DIRT	NA	NA	NA	NA	X
	2000946-06	Sample	1.3100		5.4900	4.7800	3.4700	83.01	DIRT	NA	NA	NA	NA	X
	2000946-07	Sample	1.3000		5.3200	4.7000	3.4000	84.58	DIRT	NA	NA	NA	NA	X
	2000946-08	Sample	1.3100		5.8500	4.9200	3.6100	79.52	DIRT	NA	NA	NA	NA	X

*Sample homogenized in sample container unless otherwise noted.

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0D0304

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

Inst **HRMS-09**

Date/Time IN: 04/28/20 Date/Time OUT: 04/29/20
1234 0704

Particle Size	SampleID	Sample Type	Initial and Date:	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
			CHT 04/28/20		EM 04/29/20			05/08/20					
	2000946-01	Sample	1.30	3.98 (A)	3.41			Dirt					✓
	2000946-02	Sample	1.30	3.89 (B)	3.92								✓
	2000946-03	Sample	1.31	4.88 (C)	4.92								✓
	2000946-04	Sample	1.30	5.44 (D)	5.47								✓
	2000946-05	Sample	1.31	5.03 (E)	5.05								✓
	2000946-06	Sample	1.31	5.12 (F)	4.78								✓
	2000946-07	Sample	1.30	4.66 (G)	4.70								✓
	2000946-08	Sample	1.31	4.88 (H)	4.92								✓
				(A) 5.30									
				(B) 6.11									
				(C) 5.72									
				(D) 6.14									
				(E) 5.44	10 05/03/20								
				(F) 5.49									
				(G) 5.32									
				(H) 5.85									

*Sample homogenized in sample container unless otherwise noted.

*transferred from original copy EM 04/29/20

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200515R1\200515R1-4.qld

Last Altered: Friday, May 15, 2020 11:29:09 AM Pacific Daylight Time

Printed: Friday, May 15, 2020 11:29:56 AM Pacific Daylight Time

GRB 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

CT 05/27/2020

Name: 200515R1_4, Date: 15-May-2020, Time: 10:34:04, ID: B0D0306-BLK1 Method Blank 10, Description: Method Blank

1	2,3,7,8-TCDD			NO	0.947	10.000	26.066		1.001				0.0604	
2	1,2,3,7,8-PeCDD			NO	0.942	10.000	31.146		1.001				0.0469	
3	1,2,3,4,7,8-HxCDD			NO	1.06	10.000	34.516		1.000				0.0678	
4	1,2,3,6,7,8-HxCDD			NO	0.915	10.000	34.601		1.000				0.0720	
5	1,2,3,7,8,9-HxCDD			NO	0.915	10.000	34.889		1.000				0.0756	
6	1,2,3,4,6,7,8-HpCDD			NO	0.898	10.000	38.404		1.000				0.0610	
7	OCDD	1.58e3	1.02	NO	0.933	10.000	41.364	41.38	1.000	1.000	0.42264		0.0576	0.423
8	2,3,7,8-TCDF			NO	0.787	10.000	25.132		1.001				0.0425	
9	1,2,3,7,8-PeCDF			NO	0.910	10.000	29.834		1.001				0.0376	
10	2,3,4,7,8-PeCDF			NO	0.966	10.000	30.835		1.001				0.0344	
11	1,2,3,4,7,8-HxCDF			NO	0.878	10.000	33.632		1.000				0.0436	
12	1,2,3,6,7,8-HxCDF			NO	0.874	10.000	33.770		1.000				0.0424	
13	2,3,4,6,7,8-HxCDF			NO	0.922	10.000	34.369		1.001				0.0441	
14	1,2,3,7,8,9-HxCDF	3.11e2	1.23	NO	0.864	10.000	35.219	35.23	1.000	1.000	0.063281		0.0367	0.0633
15	1,2,3,4,6,7,8-HpCDF			NO	0.871	10.000	37.003		1.001				0.0704	
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.000	38.979		1.000				0.0727	
17	OCDF			NO	0.802	10.000	41.556		1.000				0.0642	
18	13C-2,3,7,8-TCDD	1.47e6	0.78	NO	1.16	10.000	26.031	26.03	1.026	1.027	178.44	89.2	0.196	
19	13C-1,2,3,7,8-PeCDD	1.35e6	0.62	NO	0.847	10.000	31.123	31.12	1.227	1.227	223.62	112	0.233	
20	13C-1,2,3,4,7,8-HxCDD	1.03e6	1.26	NO	0.750	10.000	34.506	34.51	1.014	1.014	207.96	104	0.263	
21	13C-1,2,3,6,7,8-HxCDD	1.20e6	1.27	NO	0.963	10.000	34.618	34.60	1.017	1.017	188.64	94.3	0.205	
22	13C-1,2,3,7,8,9-HxCDD	1.18e6	1.24	NO	0.838	10.000	34.887	34.88	1.025	1.025	211.91	106	0.236	
23	13C-1,2,3,4,6,7,8-HpCDD	9.39e5	1.04	NO	0.641	10.000	38.378	38.39	1.128	1.128	220.76	110	0.312	
24	13C-OCDD	1.60e6	0.90	NO	0.586	10.000	41.372	41.36	1.216	1.216	411.32	103	0.288	
25	13C-2,3,7,8-TCDF	1.74e6	0.77	NO	1.03	10.000	25.090	25.11	0.989	0.990	169.40	84.7	0.338	
26	13C-1,2,3,7,8-PeCDF	1.81e6	1.55	NO	0.845	10.000	29.812	29.81	1.176	1.176	216.73	108	0.262	
27	13C-2,3,4,7,8-PeCDF	1.74e6	1.59	NO	0.814	10.000	30.803	30.80	1.215	1.215	215.58	108	0.272	
28	13C-1,2,3,4,7,8-HxCDF	1.31e6	0.51	NO	1.00	10.000	33.645	33.63	0.989	0.988	196.67	98.3	0.262	
29	13C-1,2,3,6,7,8-HxCDF	1.40e6	0.51	NO	1.14	10.000	33.767	33.76	0.992	0.992	185.25	92.6	0.232	
30	13C-2,3,4,6,7,8-HxCDF	1.35e6	0.51	NO	1.02	10.000	34.336	34.33	1.009	1.009	198.86	99.4	0.257	
31	13C-1,2,3,7,8,9-HxCDF	1.14e6	0.51	NO	0.845	10.000	35.227	35.22	1.035	1.035	203.29	102	0.312	

Dataset: U:\VG12.PRO\Results\200515R1\200515R1-4.qld

Last Altered: Friday, May 15, 2020 11:29:09 AM Pacific Daylight Time

Printed: Friday, May 15, 2020 11:29:56 AM Pacific Daylight Time

Name: 200515R1_4, Date: 15-May-2020, Time: 10:34:04, ID: B0D0306-BLK1 Method Blank 10, Description: Method Blank

32	13C-1,2,3,4,6,7,8-HpCDF	1.02e6	0.44	NO	0.771	10.000	36.959	36.97	1.086	1.086	200.08	100	0.313
33	13C-1,2,3,4,7,8,9-HpCDF	7.28e5	0.43	NO	0.482	10.000	38.970	38.98	1.145	1.146	227.65	114	0.501
34	13C-OCDF	1.87e6	0.88	NO	0.669	10.000	41.542	41.56	1.221	1.221	421.96	105	0.310
35	37Cl-2,3,7,8-TCDD	5.49e5			1.10	10.000	26.061	26.06	1.028	1.028	70.279	87.8	0.0495
36	13C-1,2,3,4-TCDD	1.42e6	0.79	NO	1.00	10.000	25.350	25.36	1.000	1.000	200.00	100	0.227
37	13C-1,2,3,4-TCDF	1.98e6	0.78	NO	1.00	10.000	23.560	23.59	1.000	1.000	200.00	100	0.350
38	13C-1,2,3,4,6,9-HxCDF	1.33e6	0.51	NO	1.00	10.000	34.000	34.03	1.000	1.000	200.00	100	0.263
39	Total Tetra-Dioxins				0.947	10.000	24.620		0.000				0.0372
40	Total Penta-Dioxins				0.942	10.000	29.960		0.000				0.0169
41	Total Hexa-Dioxins				0.915	10.000	33.635		0.000				0.0456
42	Total Hepta-Dioxins				0.898	10.000	37.640		0.000				0.0285
43	Total Tetra-Furans				0.787	10.000	23.610		0.000				0.0183
44	1st Func. Penta-Furans				0.910	10.000	27.090		0.000				0.00790
45	Total Penta-Furans				0.910	10.000	29.275		0.000				0.0176
46	Total Hexa-Furans				0.922	10.000	33.555		0.000		0.063281		0.0275
47	Total Hepta-Furans				0.871	10.000	37.835		0.000				0.0488

Dataset: U:\VG12.PRO\Results\200515R1\200515R1-4.qld
Last Altered: Friday, May 15, 2020 11:29:09 AM Pacific Daylight Time
Printed: Friday, May 15, 2020 11:29:56 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: 200515R1_4, Date: 15-May-2020, Time: 10:34:04, ID: B0D0306-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins



Penta-Dioxins



Hexa-Dioxins



Hepta-Dioxins



Tetra-Furans



Penta-Furans function 1



Dataset: U:\VG12.PRO\Results\200515R1\200515R1-4.qld
Last Altered: Friday, May 15, 2020 11:29:09 AM Pacific Daylight Time
Printed: Friday, May 15, 2020 11:29:56 AM Pacific Daylight Time

Name: 200515R1_4, Date: 15-May-2020, Time: 10:34:04, ID: B0D0306-BLK1 Method Blank 10, Description: Method Blank

Penta-Furans



Hexa-Furans

1,2,3,7,8,9-HxCDF	35.23	4.869e3	3.760e3	1.717e2	1.396e2	1.23	NO	3.113e2	0.063281	0.063281	0.0367
Total Hexa-Furans	35.26	4.431e3	3.253e3	1.194e2	7.131e1	1.67	YES	0.000e0	0.00000	0.026701	0.0275

Hepta-Furans



Dataset: Untitled

Last Altered: Friday, May 15, 2020 11:20:31 AM Pacific Daylight Time

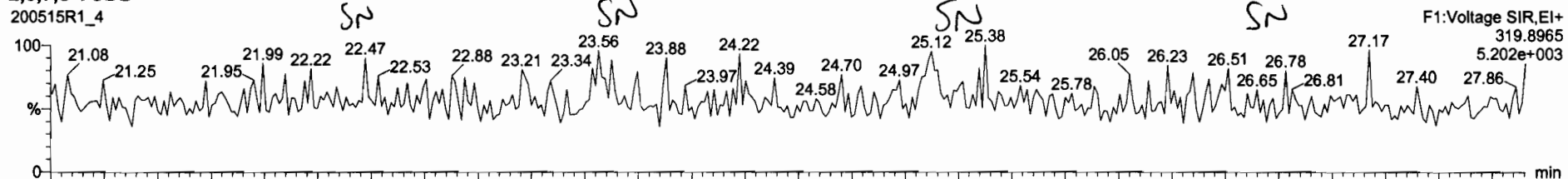
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Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

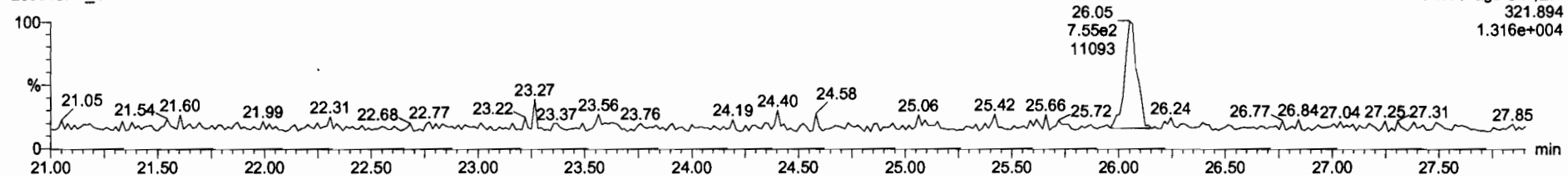
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200515R1_4, Date: 15-May-2020, Time: 10:34:04, ID: B0D0306-BLK1 Method Blank 10, Description: Method Blank

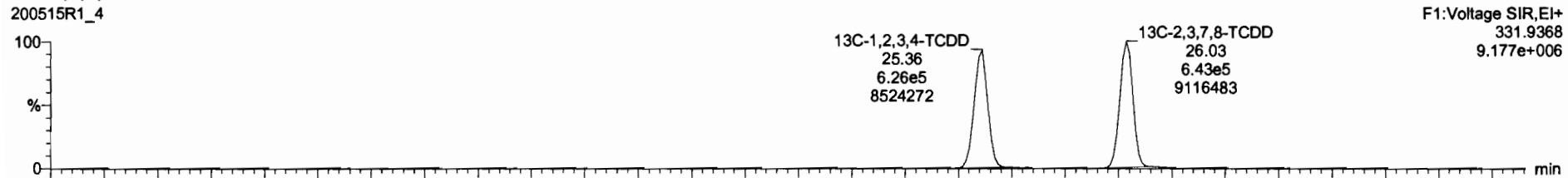
2,3,7,8-TCDD



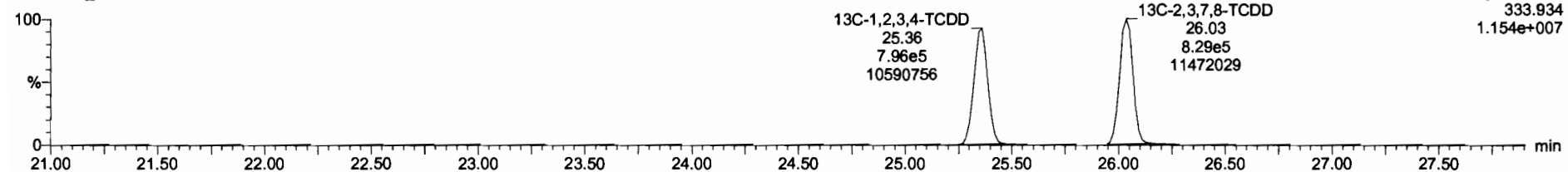
200515R1_4



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



200515R1_4



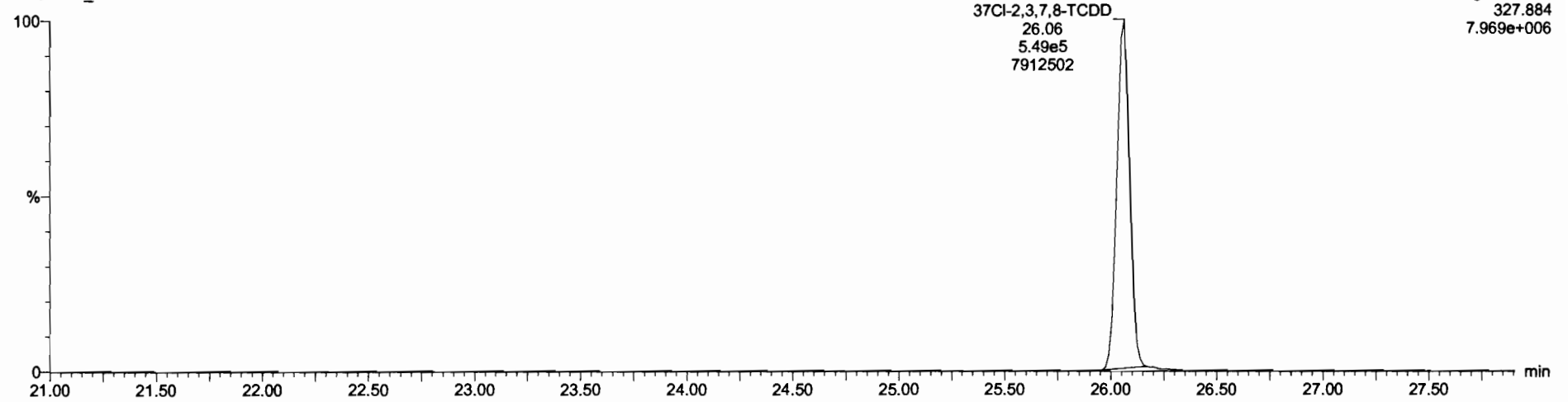
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Printed: Friday, May 15, 2020 11:22:35 AM Pacific Daylight Time

Name: 200515R1_4, Date: 15-May-2020, Time: 10:34:04, ID: B0D0306-BLK1 Method Blank 10, Description: Method Blank

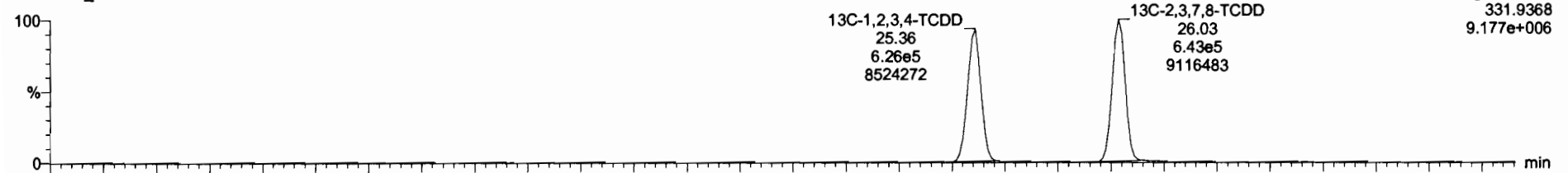
37Cl-2,3,7,8-TCDD

200515R1_4

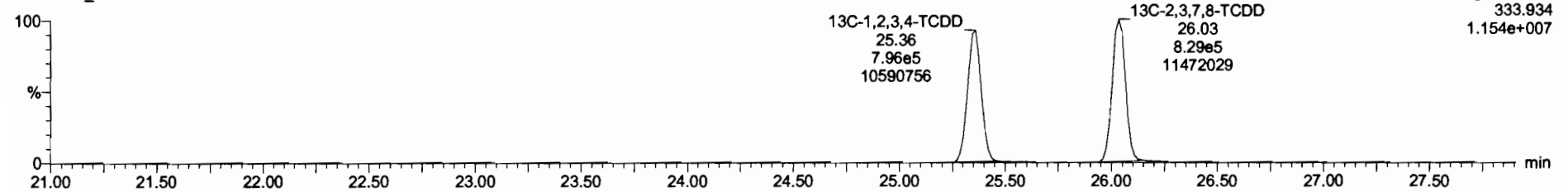


13C-1,2,3,4-TCDD

200515R1_4



200515R1_4



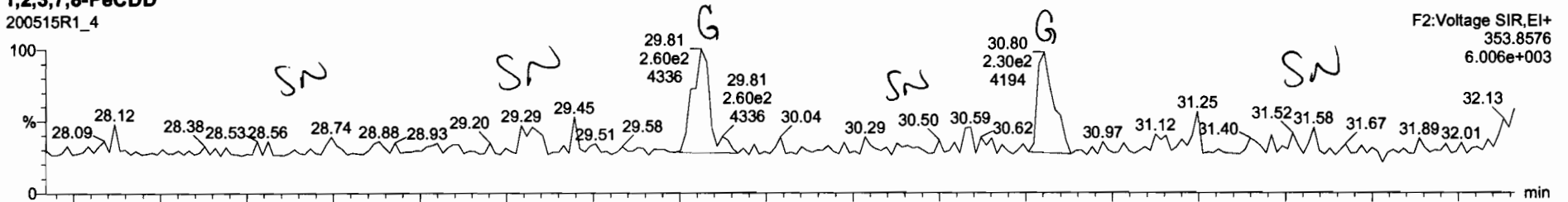
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Printed: Friday, May 15, 2020 11:22:35 AM Pacific Daylight Time

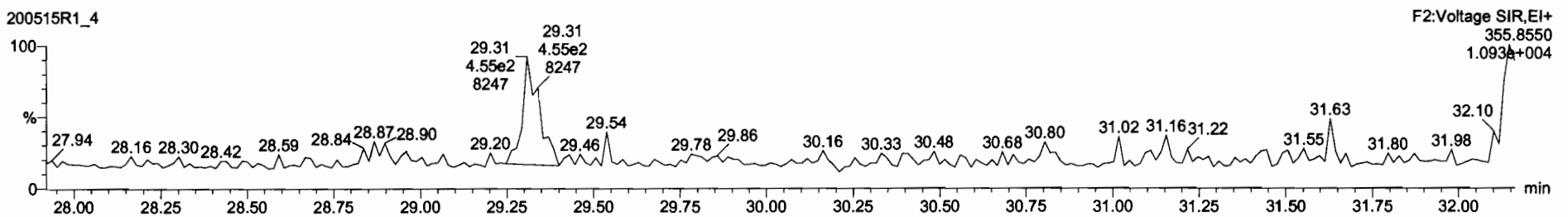
Name: 200515R1_4, Date: 15-May-2020, Time: 10:34:04, ID: B0D0306-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDD

200515R1_4

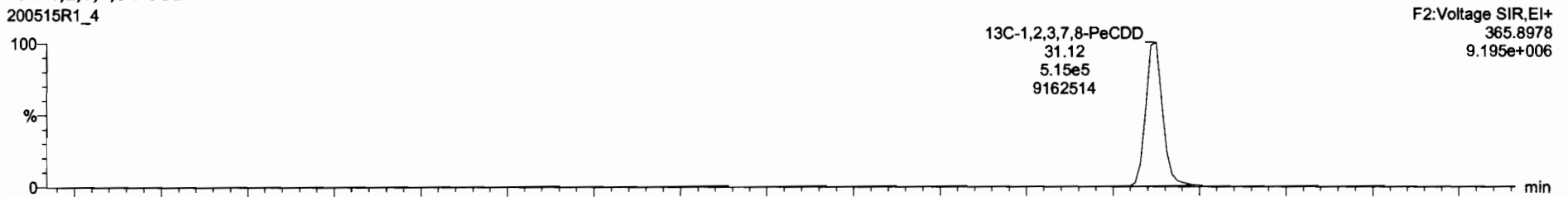


200515R1_4

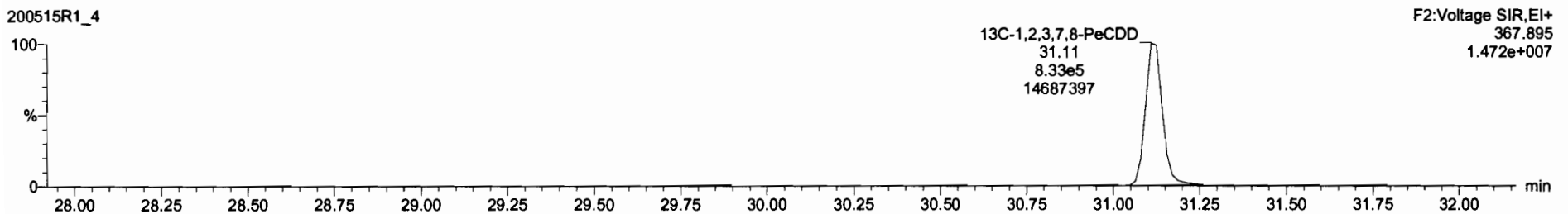


13C-1,2,3,7,8-PeCDD

200515R1_4



200515R1_4



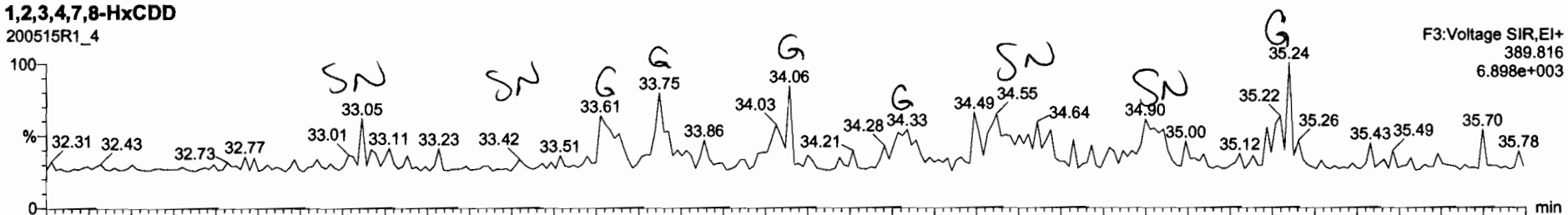
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Printed: Friday, May 15, 2020 11:22:35 AM Pacific Daylight Time

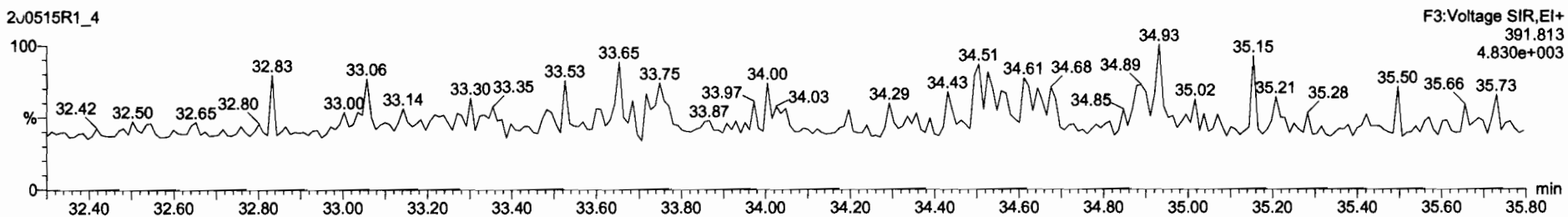
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1,2,3,4,7,8-HxCDD

200515R1_4

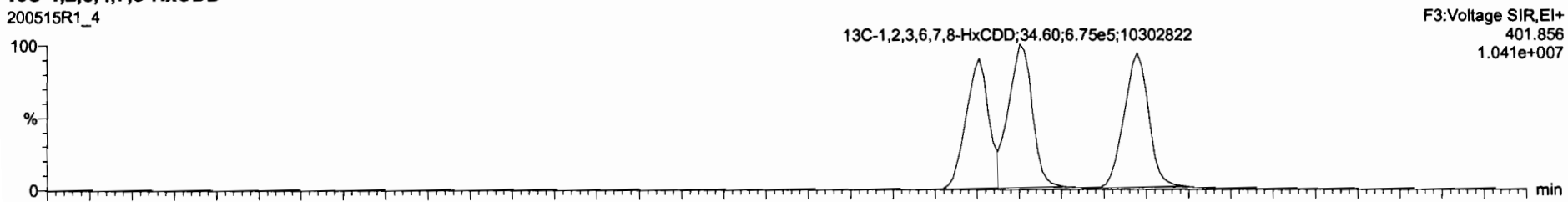


200515R1_4

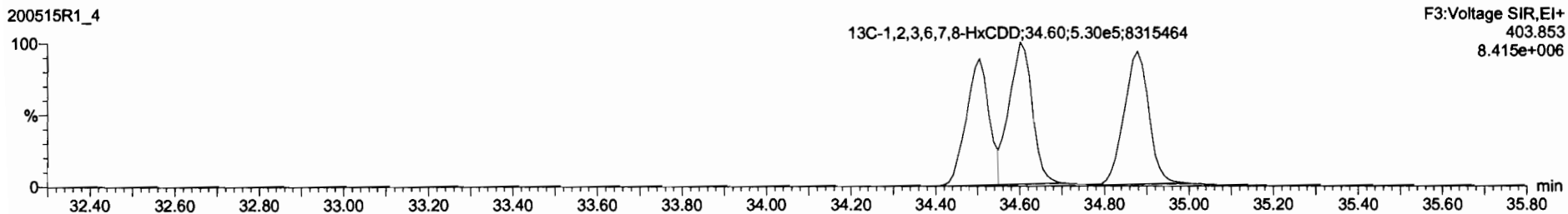


13C-1,2,3,4,7,8-HxCDD

200515R1_4



200515R1_4



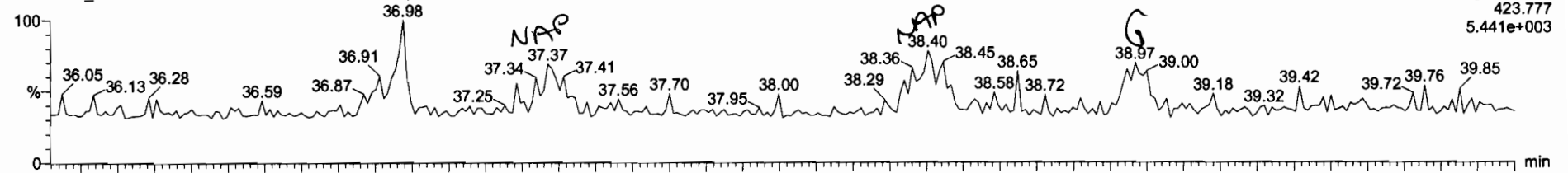
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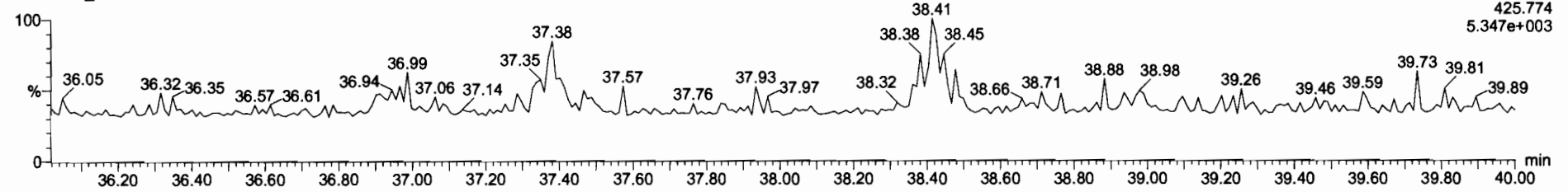
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1,2,3,4,6,7,8-HpCDD

200515R1_4

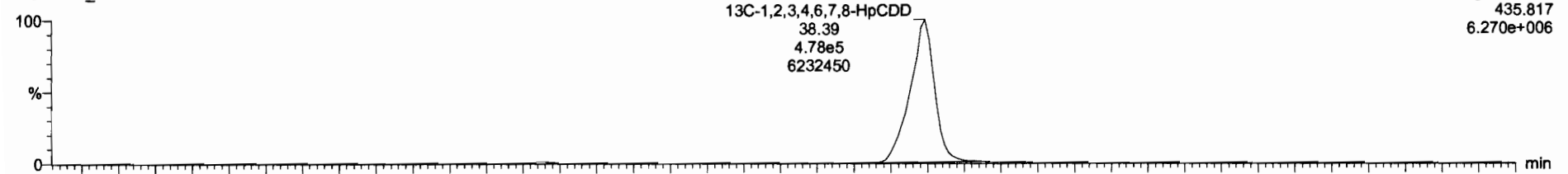


200515R1_4

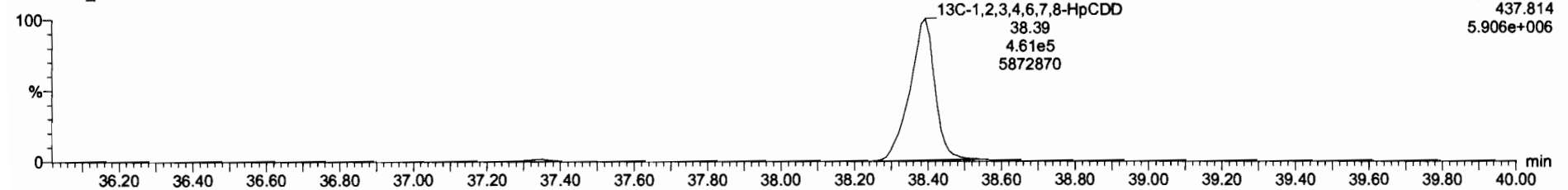


¹³C-1,2,3,4,6,7,8-HpCDD

200515R1_4



200515R1_4

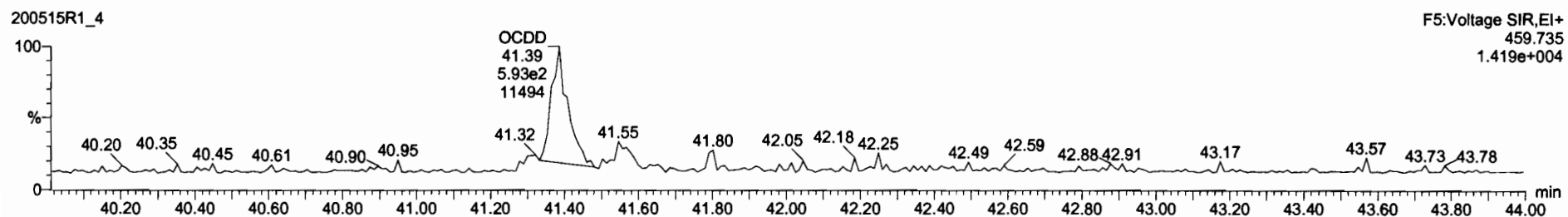
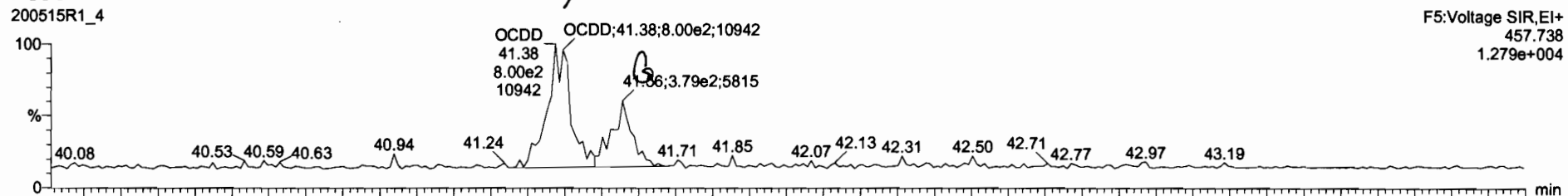


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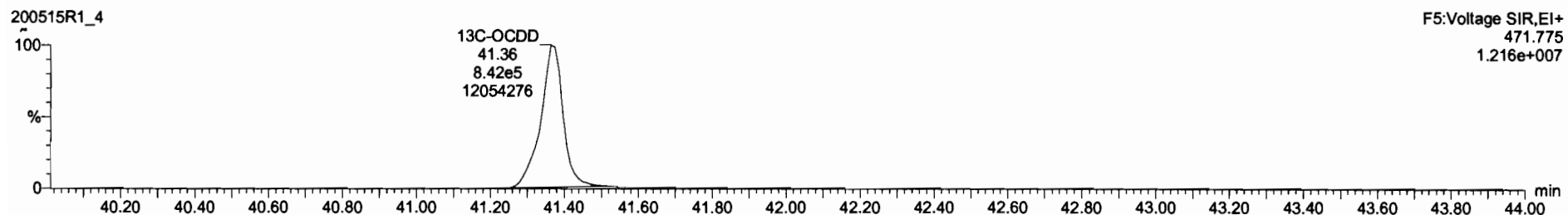
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Name: 200515R1_4, Date: 15-May-2020, Time: 10:34:04, ID: B0D0306-BLK1 Method Blank 10, Description: Method Blank

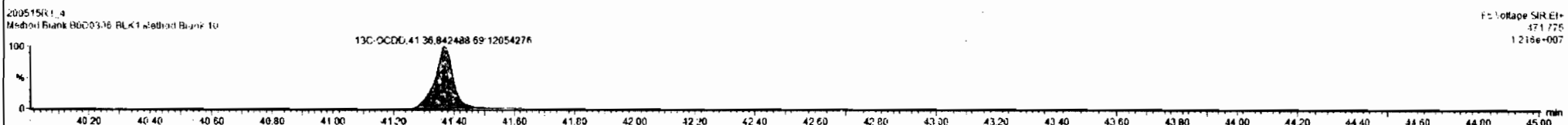
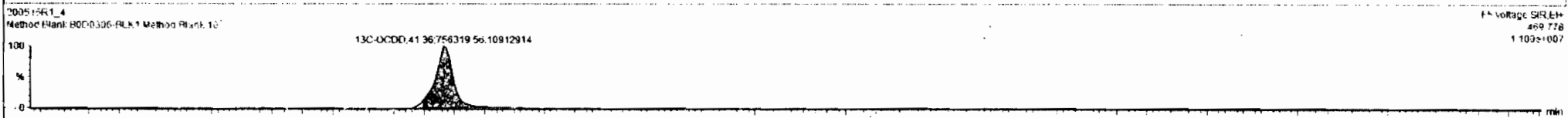
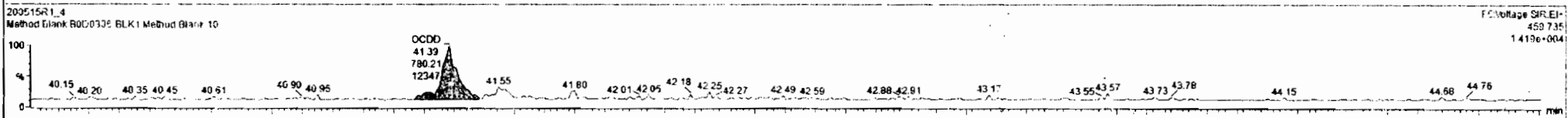
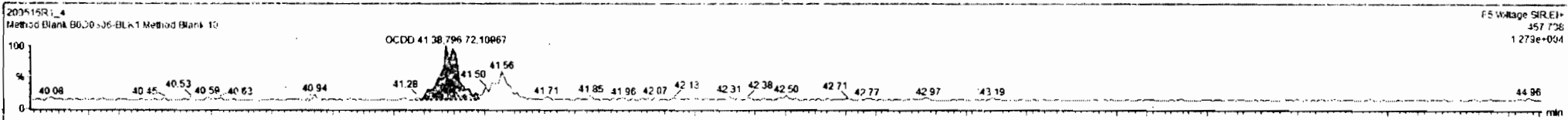
OCDD



13C-OCDD



SI	Name	Resp	RA	dy	RUF	width	RT	RTT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.9475	10.000					0.0604	
2	1,2,3,7,8-PeCDD			NO	0.9425	10.000					0.0469	
3	1,2,3,4,7,8-HxCDD			NO	1.0641	10.000					0.0778	
4	1,2,3,6,7,8-HxCDD			NO	0.9145	10.000					0.0720	
5	1,2,3,7,8,9-HxCDD			NO	0.9145	10.000					0.0756	
6	1,2,3,4,6,7,8-HpCDD			NO	0.8979	10.000					0.0610	
7	OCDD	1.5843	1.02	NO	0.9335	10.000	41.38	1.060	0.423		0.0576	0.423
8	2,3,7,8-TCDF			NO	0.7871	10.000					0.0425	
9	1,2,3,7,8-PeCDF			NO	0.9102	10.000					0.0376	
10	2,3,4,7,8-PeCDF			NO	0.9664	10.000					0.0344	
11	1,2,3,4,7,8-HxCDF			NO	0.8782	10.000					0.0436	
12	1,2,3,6,7,8-HxCDF			NO	0.6740	10.000					0.0424	
13	2,3,4,6,7,8-HxCDF			NO	0.9217	10.000					0.0441	
14	1,2,3,7,8,9-HxCDF			NO	0.8642	10.000					0.0602	
15	1,2,3,4,6,7,8-HpCDF			NO	0.8712	10.000					0.0704	
16	1,2,3,4,7,8,9-HpCDF			NO	1.0116	10.000					0.0727	
17	OCDF			NO	0.8021	10.000					0.0542	



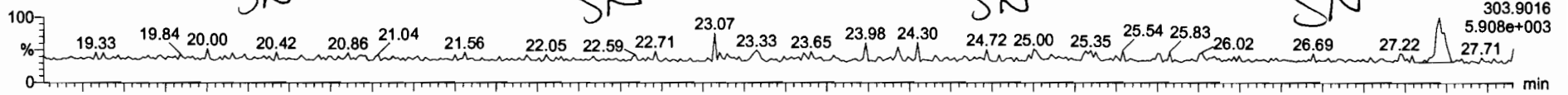
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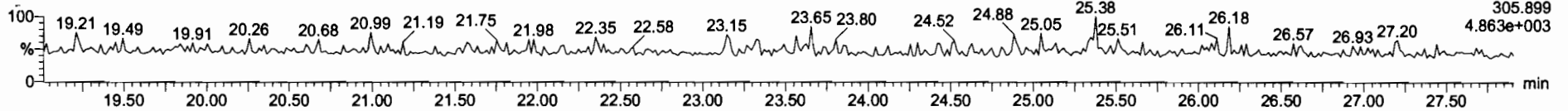
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2,3,7,8-TCDF

200515R1_4

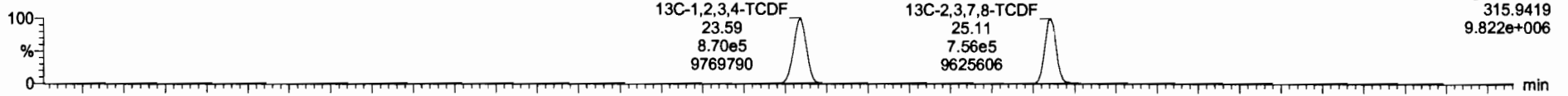


200515R1_4

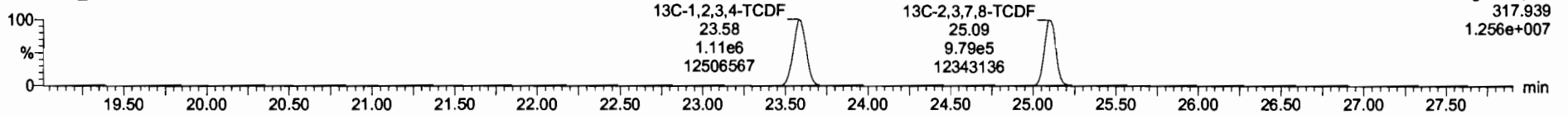


13C-2,3,7,8-TCDF

200515R1_4

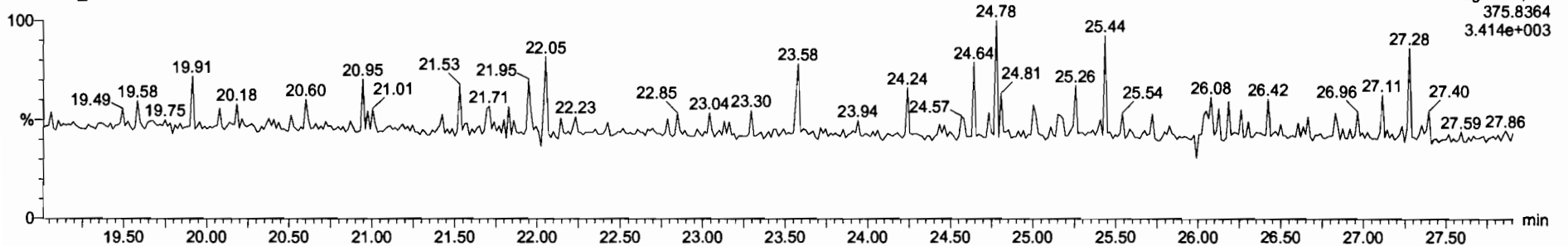


200515R1_4



DPE1

200515R1_4



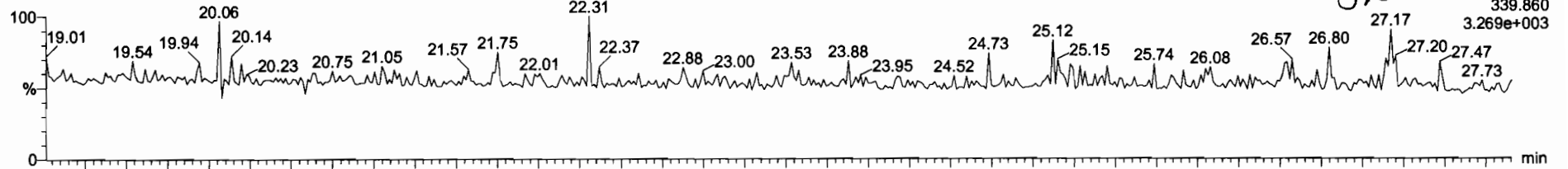
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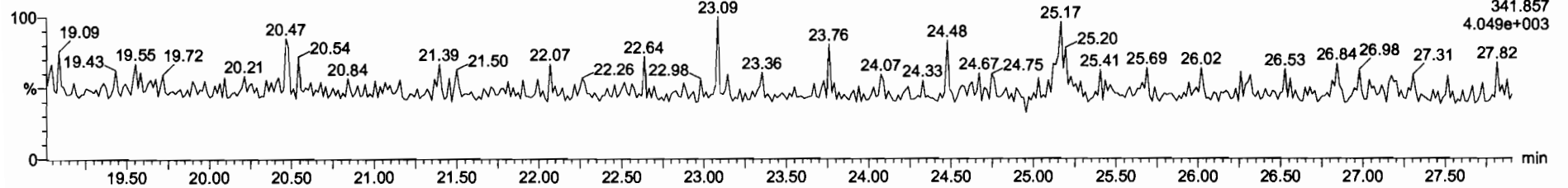
Name: 200515R1_4, Date: 15-May-2020, Time: 10:34:04, ID: B0D0306-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

200515R1_4

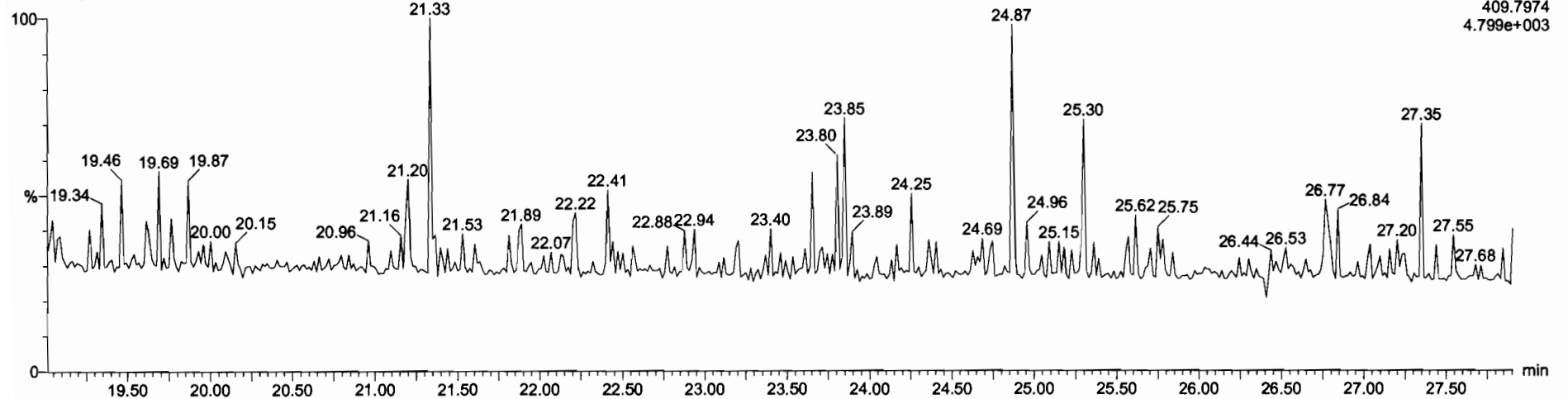


200515R1_4



DPE6

200515R1_4

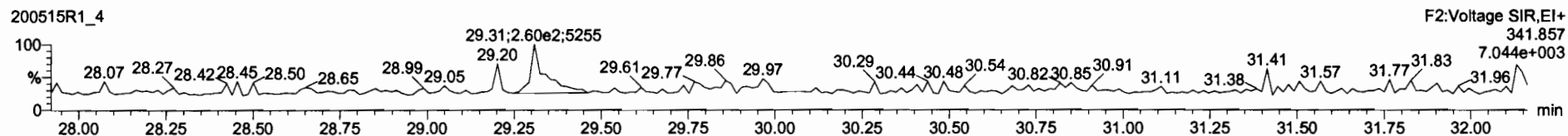
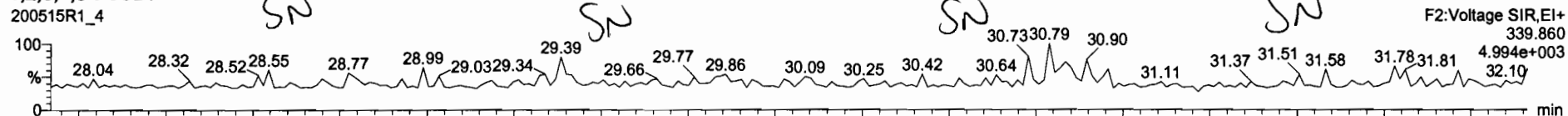


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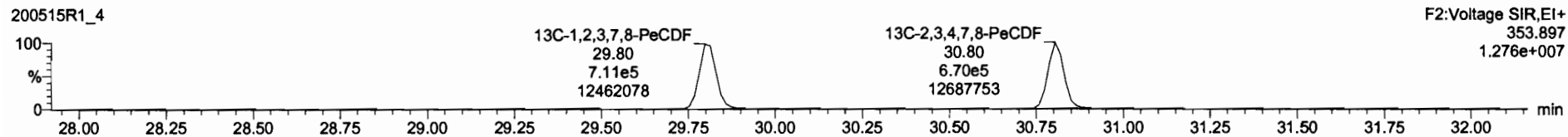
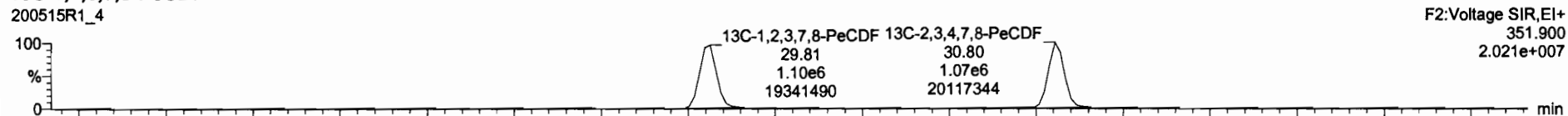
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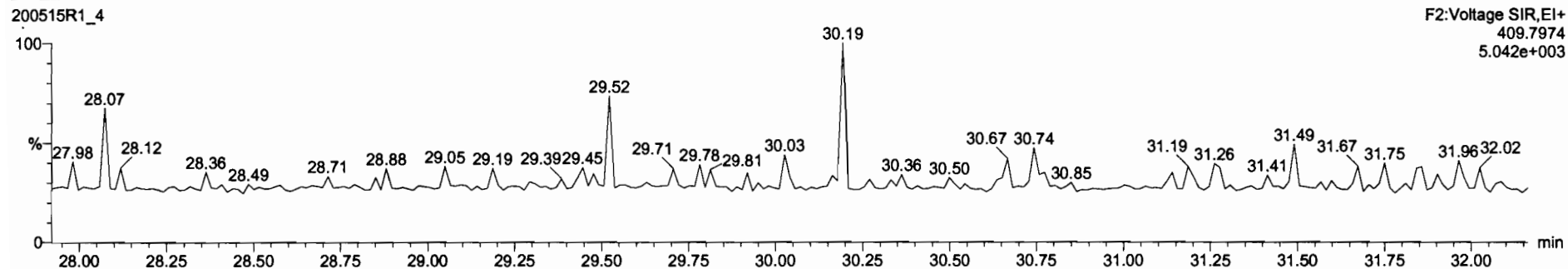
1,2,3,7,8-PeCDF



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



DPE2

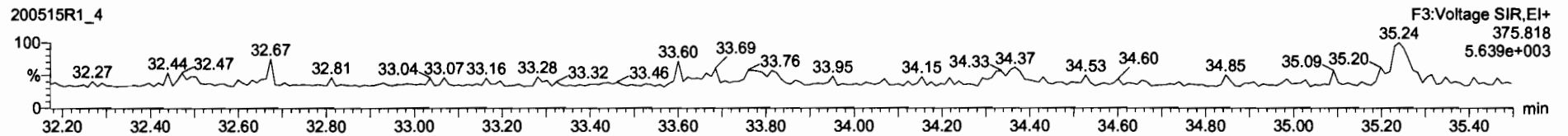
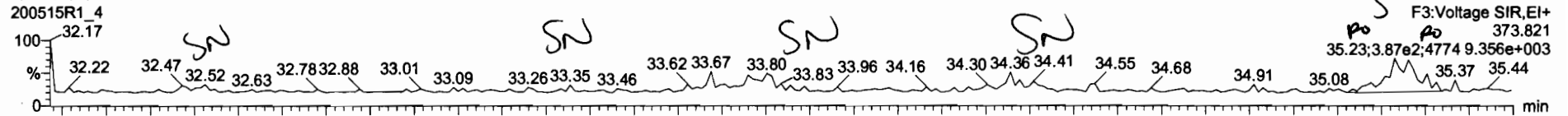


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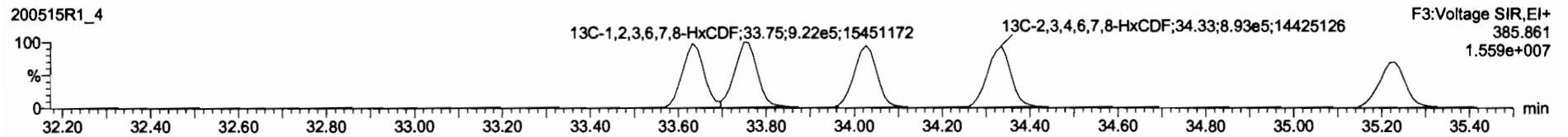
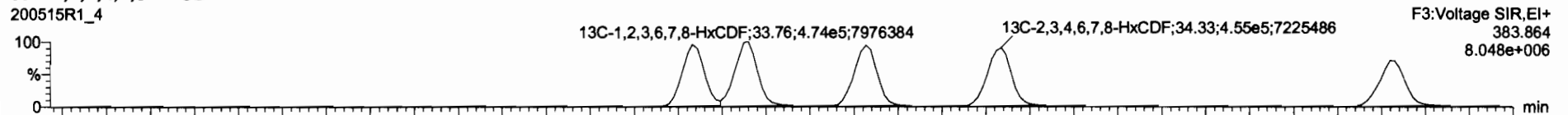
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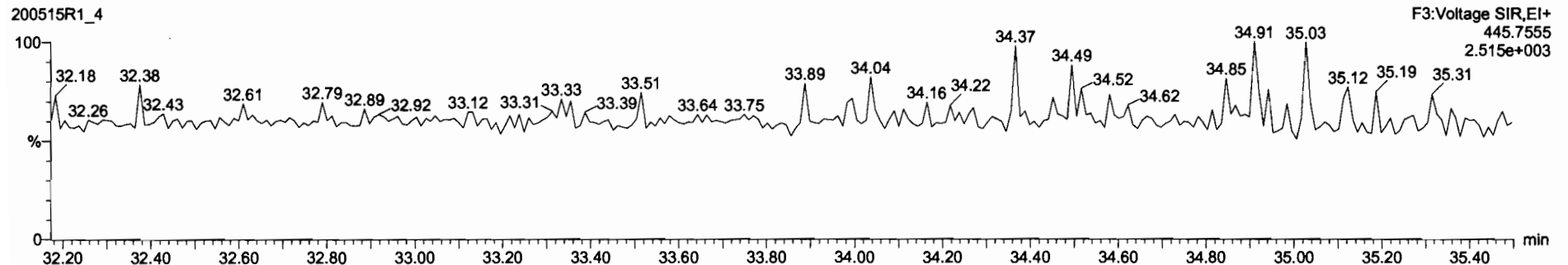
1,2,3,4,7,8-HxCDF

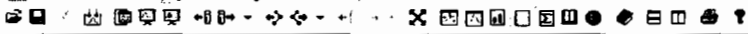


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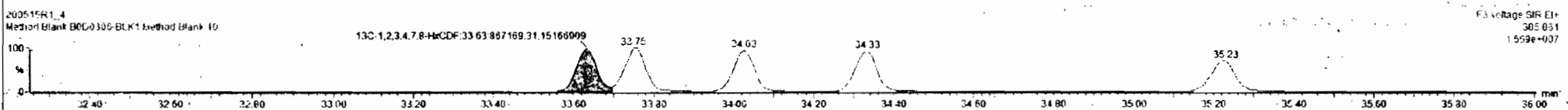
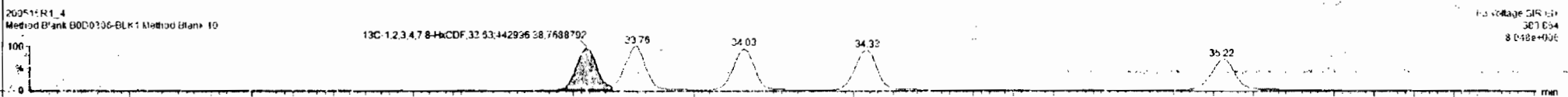
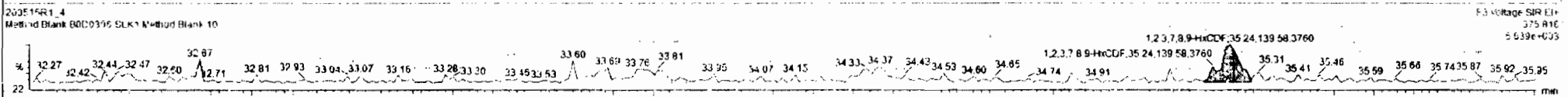
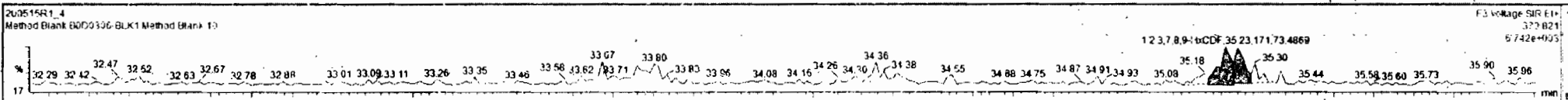
DPE3





Name	Resp	RA	aly	RFI	w/wot	RT	NCF	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxins				0.8576	10.000					0.0285	
43 Total Tetra-Furans				0.7871	10.000					0.0183	
44 1st Func. Penta-Furans				0.9102	10.000					0.00790	
45 Total Penta-Furans				0.9102	10.000					0.0176	

Name	RT	Int Resp	Ext Resp	RA	aly	EMPC	Conc
1 1,2,3,7,8-HxCDF	35.23	1.717e2	1.396e2	1.23	MO	0.063281	0.063281
2 Total Hexa-Furans	35.28	1.194e2	7.131e1	1.67	YS	0.026701	0.00000



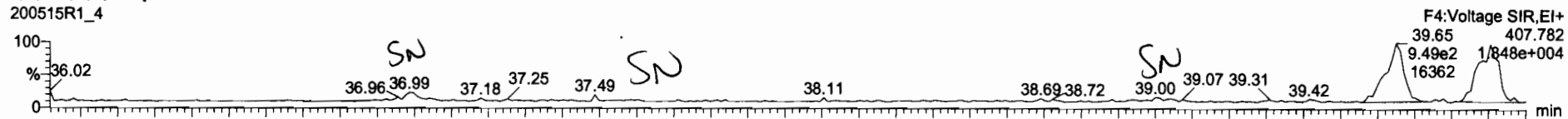
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Last Altered: Friday, May 15, 2020 11:20:31 AM Pacific Daylight Time
Printed: Friday, May 15, 2020 11:22:35 AM Pacific Daylight Time

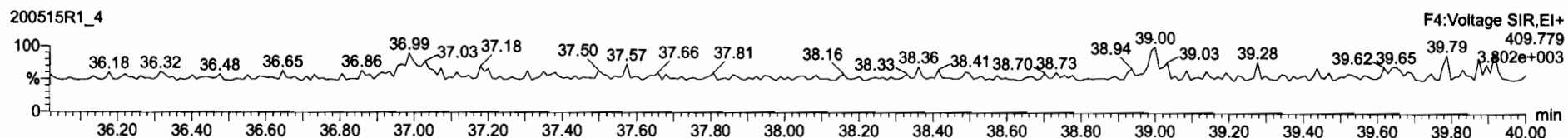
Name: 200515R1_4, Date: 15-May-2020, Time: 10:34:04, ID: B0D0306-BLK1 Method Blank 10, Description: Method Blank

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

200515R1_4



200515R1_4

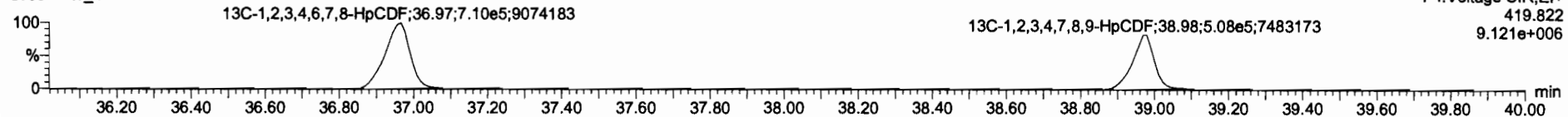


13C-1,2,3,4,6,7,8-HpCDF

200515R1_4

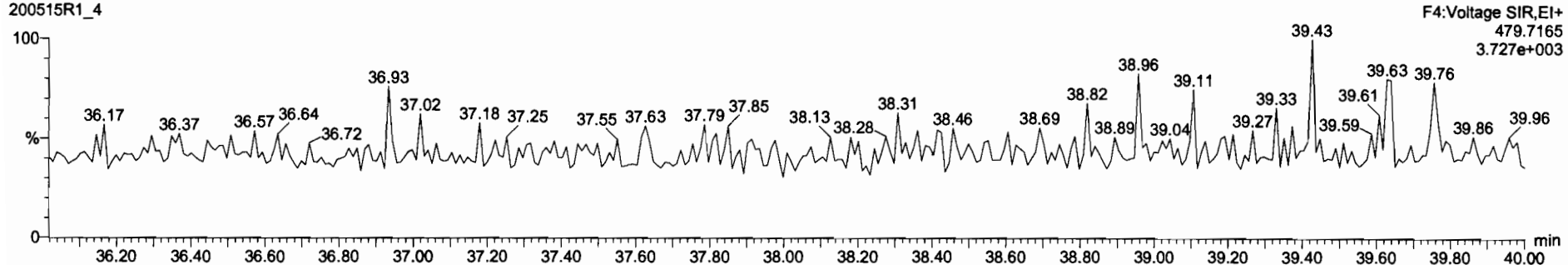


200515R1_4



DPE4

200515R1_4

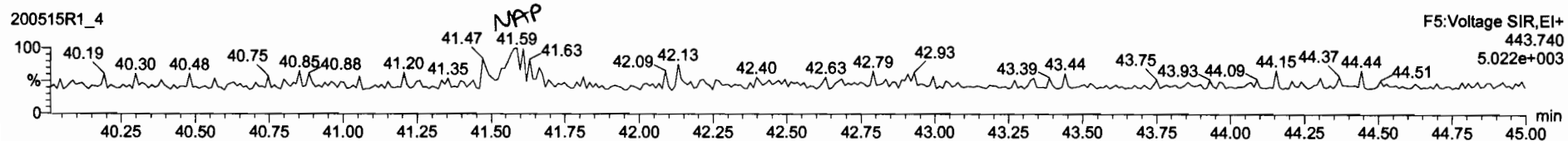
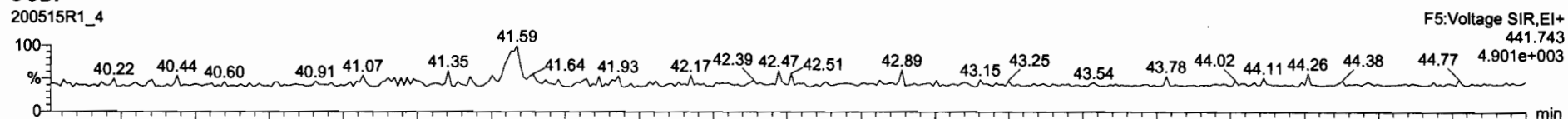


Dataset: Untitled

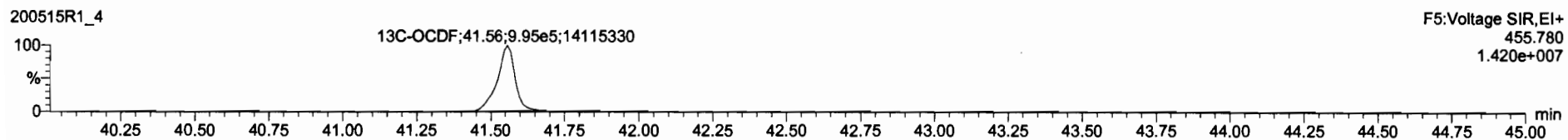
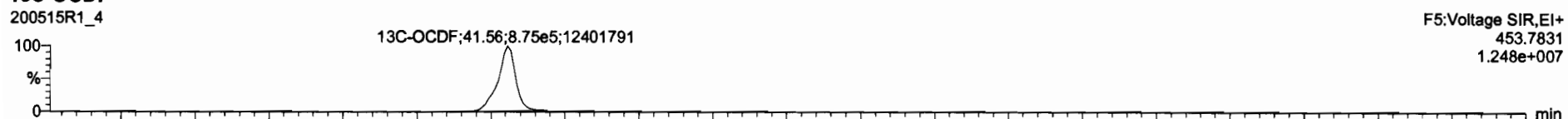
Last Altered: Friday, May 15, 2020 11:20:31 AM Pacific Daylight Time
Printed: Friday, May 15, 2020 11:22:35 AM Pacific Daylight Time

Name: 200515R1_4, Date: 15-May-2020, Time: 10:34:04, ID: B0D0306-BLK1 Method Blank 10, Description: Method Blank

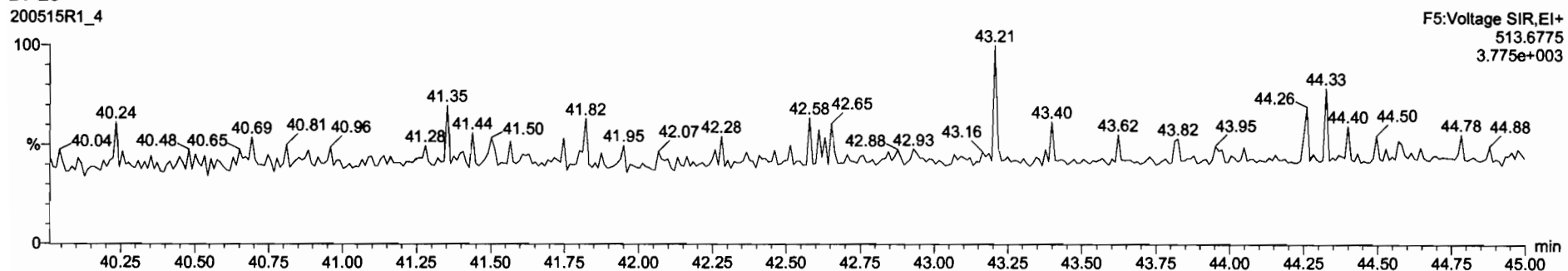
OCDF



13C-OCDF



DPE5

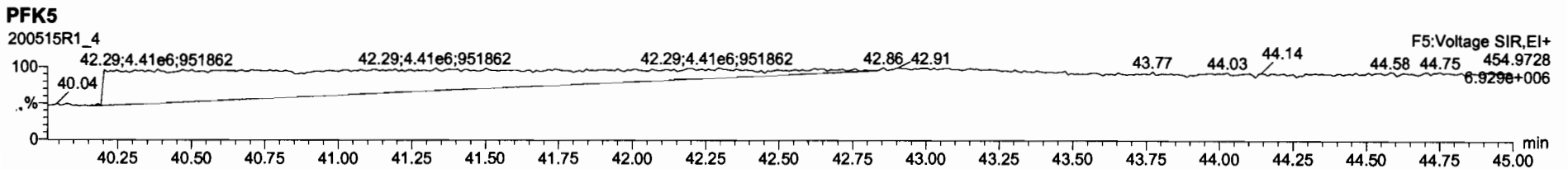
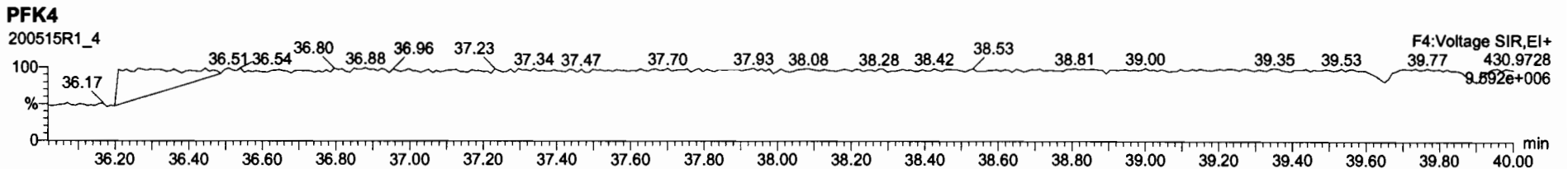
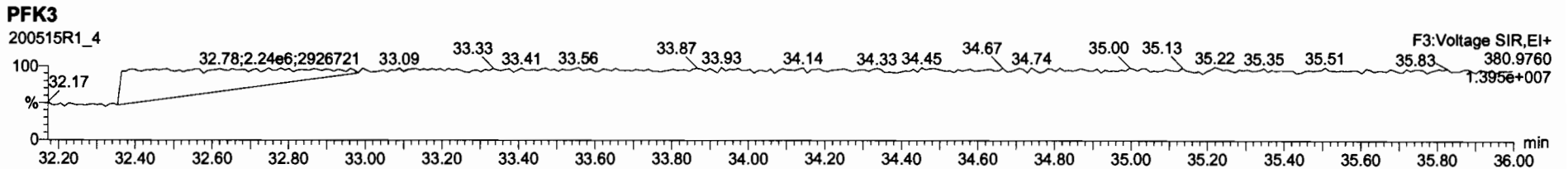
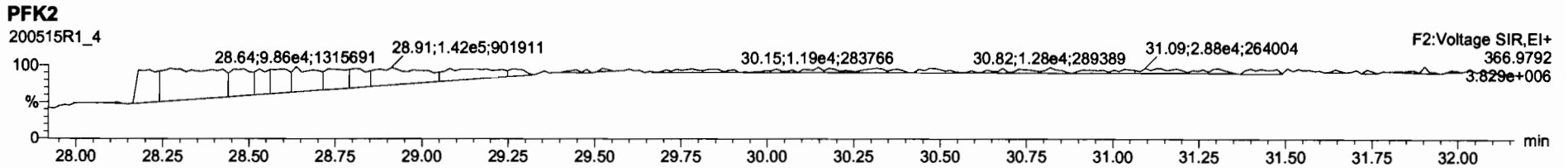
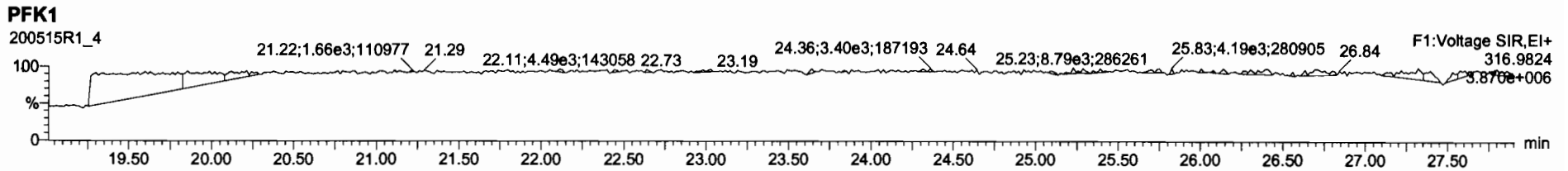


Dataset: Untitled

Last Altered: Friday, May 15, 2020 11:20:31 AM Pacific Daylight Time

Printed: Friday, May 15, 2020 11:22:35 AM Pacific Daylight Time

Name: 200515R1_4, Date: 15-May-2020, Time: 10:34:04, ID: B0D0306-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200515R1\200515R1-2.qld

Last Altered: Friday, May 15, 2020 9:50:28 AM Pacific Daylight Time
Printed: Friday, May 15, 2020 10:33:54 AM Pacific Daylight Time

GRB 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

CT 05/22/2020

Name: 200515R1_2, Date: 15-May-2020, Time: 09:01:39, ID: B0D0306-BS1 OPR 10, Description: OPR

1	2,3,7,8-TCDD	1.02e5	0.75	NO	0.947	10.000	26.066	26.06	1.001	1.001	17.458	0.112	17.5
2	1,2,3,7,8-PeCDD	4.58e5	0.62	NO	0.942	10.000	31.146	31.14	1.001	1.000	89.746	0.122	89.7
3	1,2,3,4,7,8-HxCDD	4.35e5	1.24	NO	1.06	10.000	34.516	34.52	1.000	1.000	96.524	0.128	96.5
4	1,2,3,6,7,8-HxCDD	4.42e5	1.23	NO	0.915	10.000	34.612	34.62	1.000	1.000	99.350	0.134	99.3
5	1,2,3,7,8,9-HxCDD	4.32e5	1.23	NO	0.915	10.000	34.889	34.89	1.000	1.000	98.277	0.137	98.3
6	1,2,3,4,6,7,8-HpCDD	3.43e5	1.02	NO	0.898	10.000	38.405	38.40	1.000	1.000	100.11	0.154	100
7	OCDD	6.16e5	0.87	NO	0.933	10.000	41.364	41.38	1.000	1.000	198.41	0.150	198
8	2,3,7,8-TCDF	1.12e5	0.75	NO	0.787	10.000	25.117	25.12	1.001	1.001	19.614	0.127	19.6
9	1,2,3,7,8-PeCDF	6.39e5	1.54	NO	0.910	10.000	29.834	29.83	1.001	1.001	96.246	0.130	96.2
10	2,3,4,7,8-PeCDF	6.50e5	1.57	NO	0.966	10.000	30.850	30.83	1.001	1.000	95.830	0.115	95.8
11	1,2,3,4,7,8-HxCDF	4.94e5	1.21	NO	0.878	10.000	33.643	33.65	1.000	1.000	105.94	0.161	106
12	1,2,3,6,7,8-HxCDF	5.24e5	1.21	NO	0.874	10.000	33.770	33.77	1.000	1.000	104.36	0.160	104
13	2,3,4,6,7,8-HxCDF	5.29e5	1.20	NO	0.922	10.000	34.369	34.35	1.001	1.000	105.16	0.164	105
14	1,2,3,7,8,9-HxCDF	4.31e5	1.22	NO	0.864	10.000	35.230	35.24	1.000	1.000	105.26	0.229	105
15	1,2,3,4,6,7,8-HpCDF	3.96e5	0.99	NO	0.871	10.000	37.003	36.98	1.001	1.000	109.45	0.189	109
16	1,2,3,4,7,8,9-HpCDF	3.34e5	1.00	NO	1.01	10.000	38.968	38.98	1.000	1.000	108.18	0.197	108
17	OCDF	6.50e5	0.88	NO	0.802	10.000	41.546	41.56	1.000	1.000	211.51	0.148	212
18	13C-2,3,7,8-TCDD	1.24e6	0.78	NO	1.16	10.000	26.015	26.03	1.026	1.027	161.26	80.6	0.218
19	13C-1,2,3,7,8-PeCDD	1.08e6	0.63	NO	0.847	10.000	31.105	31.12	1.227	1.228	193.23	96.6	0.220
20	13C-1,2,3,4,7,8-HxCDD	8.47e5	1.28	NO	0.750	10.000	34.517	34.51	1.014	1.014	186.70	93.3	0.256
21	13C-1,2,3,6,7,8-HxCDD	9.74e5	1.27	NO	0.963	10.000	34.629	34.61	1.017	1.017	167.15	83.6	0.199
22	13C-1,2,3,7,8,9-HxCDD	9.60e5	1.25	NO	0.838	10.000	34.898	34.88	1.025	1.025	189.49	94.7	0.229
23	13C-1,2,3,4,6,7,8-HpCDD	7.64e5	1.04	NO	0.641	10.000	38.390	38.39	1.128	1.128	196.92	98.5	0.295
24	13C-OCDD	1.33e6	0.89	NO	0.586	10.000	41.385	41.36	1.216	1.215	375.26	93.8	0.282
25	13C-2,3,7,8-TCDF	1.45e6	0.77	NO	1.03	10.000	25.075	25.09	0.989	0.990	155.37	77.7	0.411
26	13C-1,2,3,7,8-PeCDF	1.46e6	1.58	NO	0.845	10.000	29.794	29.81	1.176	1.176	190.94	95.5	0.394
27	13C-2,3,4,7,8-PeCDF	1.40e6	1.58	NO	0.814	10.000	30.785	30.82	1.215	1.216	190.71	95.4	0.409
28	13C-1,2,3,4,7,8-HxCDF	1.06e6	0.51	NO	1.00	10.000	33.656	33.64	0.989	0.988	174.76	87.4	0.321
29	13C-1,2,3,6,7,8-HxCDF	1.15e6	0.51	NO	1.14	10.000	33.778	33.76	0.992	0.992	167.18	83.6	0.284
30	13C-2,3,4,6,7,8-HxCDF	1.09e6	0.51	NO	1.02	10.000	34.347	34.33	1.009	1.009	176.39	88.2	0.316
31	13C-1,2,3,7,8,9-HxCDF	9.49e5	0.51	NO	0.845	10.000	35.238	35.23	1.035	1.035	185.61	92.8	0.382

Dataset: U:\VG12.PRO\Results\200515R1\200515R1-2.qld

Last Altered: Friday, May 15, 2020 9:50:28 AM Pacific Daylight Time

Printed: Friday, May 15, 2020 10:33:54 AM Pacific Daylight Time

Name: 200515R1_2, Date: 15-May-2020, Time: 09:01:39, ID: B0D0306-BS1 OPR 10, Description: OPR

32	13C-1,2,3,4,6,7,8-HpCDF	8.32e5	0.43	NO	0.771	10.000	36.971	36.97	1.086	1.086	178.22	89.1	0.323	
33	13C-1,2,3,4,7,8,9-HpCDF	6.11e5	0.43	NO	0.482	10.000	38.982	38.97	1.145	1.145	209.38	105	0.517	
34	13C-OCDF	1.53e6	0.88	NO	0.669	10.000	41.556	41.55	1.221	1.221	379.11	94.8	0.280	
35	37Cl-2,3,7,8-TCDD	5.51e5			1.10	10.000	26.046	26.06	1.028	1.028	75.899	94.9	0.0406	
36	13C-1,2,3,4-TCDD	1.32e6	0.79	NO	1.00	10.000	25.350	25.35	1.000	1.000	200.00	100	0.253	
37	13C-1,2,3,4-TCDF	1.81e6	0.79	NO	1.00	10.000	23.560	23.57	1.000	1.000	200.00	100	0.425	
38	13C-1,2,3,4,6,9-HxCDF	1.21e6	0.51	NO	1.00	10.000	34.000	34.04	1.000	1.000	200.00	100	0.323	
39	Total Tetra-Dioxins				0.947	10.000	24.620		0.000		18.059		0.112	18.5
40	Total Penta-Dioxins				0.942	10.000	29.960		0.000		90.108		0.122	90.5
41	Total Hexa-Dioxins				0.915	10.000	33.635		0.000		294.15		0.140	294
42	Total Hepta-Dioxins				0.898	10.000	37.640		0.000		100.73		0.154	101
43	Total Tetra-Furans				0.787	10.000	23.610		0.000		21.030		0.127	23.1
44	1st Func. Penta-Furans				0.910	10.000	27.090		0.000		0.29598		0.0270	0.296
45	Total Penta-Furans				0.910	10.000	29.275		0.000		192.59		0.126	195
46	Total Hexa-Furans				0.922	10.000	33.555		0.000		421.33		0.170	421
47	Total Hepta-Furans				0.871	10.000	37.835		0.000		217.62		0.206	218

Dataset: U:\VG12.PRO\Results\200515R1\200515R1-2.qld
Last Altered: Friday, May 15, 2020 9:50:28 AM Pacific Daylight Time
Printed: Friday, May 15, 2020 10:33:54 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: 200515R1_2, Date: 15-May-2020, Time: 09:01:39, ID: B0D0306-BS1 OPR 10, Description: OPR

Tetra-Dioxins

Total Tetra-Dioxins	21.87	1.303e4	1.534e4	8.971e2	1.314e3	0.68	NO	2.211e3	0.37773	0.37773	0.112
Total Tetra-Dioxins	24.28	7.293e3	1.085e4	5.913e2	7.145e2	0.83	NO	1.306e3	0.22307	0.22307	0.112
Total Tetra-Dioxins	25.75	1.411e4	1.992e4	1.037e3	2.095e3	0.49	YES	0.000e0	0.00000	0.40715	0.112
2,3,7,8-TCDD	26.06	6.245e5	8.253e5	4.374e4	5.846e4	0.75	NO	1.022e5	17.458	17.458	0.112

Penta-Dioxins

Total Penta-Dioxins	28.87	5.824e3	9.052e3	3.341e2	5.980e2	0.56	NO	9.321e2	0.18282	0.18282	0.122
Total Penta-Dioxins	29.87	7.454e3	1.399e4	5.468e2	6.885e2	0.79	YES	0.000e0	0.00000	0.22013	0.122
Total Penta-Dioxins	30.13	3.362e3	6.390e3	2.284e2	2.689e2	0.85	YES	0.000e0	0.00000	0.085978	0.122
Total Penta-Dioxins	30.71	6.895e3	9.589e3	3.509e2	5.607e2	0.63	NO	9.116e2	0.17880	0.17880	0.122
1,2,3,7,8-PeCDD	31.14	3.474e6	5.557e6	1.753e5	2.823e5	0.62	NO	4.576e5	89.746	89.746	0.122
Total Penta-Dioxins	31.54	4.873e3	3.870e3	2.705e2	3.139e2	0.86	YES	0.000e0	0.00000	0.10036	0.122

Hexa-Dioxins

1,2,3,4,7,8-HxCDD	34.52	4.554e6	3.629e6	2.406e5	1.944e5	1.24	NO	4.350e5	96.524	96.524	0.128
1,2,3,6,7,8-HxCDD	34.62	4.465e6	3.677e6	2.441e5	1.983e5	1.23	NO	4.424e5	99.350	99.350	0.134
1,2,3,7,8,9-HxCDD	34.89	4.187e6	3.416e6	2.382e5	1.935e5	1.23	NO	4.317e5	98.277	98.277	0.137

Hepta-Dioxins

Total Hepta-Dioxins	37.37	1.420e4	1.454e4	1.053e3	1.093e3	0.96	NO	2.146e3	0.62554	0.62554	0.154
1,2,3,4,6,7,8-HpCDD	38.40	2.585e6	2.520e6	1.738e5	1.697e5	1.02	NO	3.435e5	100.11	100.11	0.154

Dataset: U:\VG12.PRO\Results\200515R1\200515R1-2.qld

Last Altered: Friday, May 15, 2020 9:50:28 AM Pacific Daylight Time
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Name: 200515R1_2, Date: 15-May-2020, Time: 09:01:39, ID: B0D0306-BS1 OPR 10, Description: OPR

Tetra-Furans

Total Tetra-Furans	19.76	4.036e3	5.354e3	3.208e2	4.473e2	0.72	NO	7.680e2	0.13435	0.13435	0.127
Total Tetra-Furans	20.30	4.252e3	5.970e3	3.370e2	4.656e2	0.72	NO	8.025e2	0.14039	0.14039	0.127
Total Tetra-Furans	20.90	9.524e3	1.029e4	7.614e2	9.031e2	0.84	NO	1.664e3	0.29117	0.29117	0.127
Total Tetra-Furans	21.29	3.762e3	6.426e3	2.214e2	5.035e2	0.44	YES	0.000e0	0.00000	0.089043	0.127
Total Tetra-Furans	21.42	7.671e3	9.641e3	1.119e3	1.137e3	0.98	YES	0.000e0	0.00000	0.35215	0.127
Total Tetra-Furans	21.74	4.209e3	4.043e3	2.378e2	2.535e2	0.94	YES	0.000e0	0.00000	0.078493	0.127
Total Tetra-Furans	21.81	6.250e3	8.110e3	6.627e2	7.229e2	0.92	YES	0.000e0	0.00000	0.22383	0.127
Total Tetra-Furans	22.31	7.659e3	9.230e3	6.504e2	6.476e2	1.00	YES	0.000e0	0.00000	0.20052	0.127
Total Tetra-Furans	23.30	1.057e4	1.384e4	9.135e2	1.367e3	0.67	NO	2.281e3	0.39898	0.39898	0.127
Total Tetra-Furans	23.59	1.451e4	2.005e4	1.738e3	1.934e3	0.90	YES	0.000e0	0.00000	0.59869	0.127
Total Tetra-Furans	24.13	8.010e3	9.766e3	5.629e2	7.289e2	0.77	NO	1.292e3	0.22597	0.22597	0.127
Total Tetra-Furans	24.45	4.000e3	6.574e3	2.934e2	4.556e2	0.64	YES	0.000e0	0.00000	0.11799	0.127
Total Tetra-Furans	24.61	7.622e3	8.292e3	5.923e2	6.969e2	0.85	NO	1.289e3	0.22553	0.22553	0.127
Total Tetra-Furans	24.91	6.867e3	1.001e4	4.861e2	5.235e2	0.93	YES	0.000e0	0.00000	0.16211	0.127
2,3,7,8-TCDF	25.12	6.306e5	8.779e5	4.804e4	6.408e4	0.75	NO	1.121e5	19.614	19.614	0.127
Total Tetra-Furans	25.50	8.750e3	1.189e4	5.159e2	8.219e2	0.63	YES	0.000e0	0.00000	0.20744	0.127

Penta-Furans function 1

1st Func. Penta-Furans	27.17	1.837e4	7.960e3	1.203e3	7.238e2	1.66	NO	1.927e3	0.29598	0.29598	0.0270
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Dataset: U:\VG12.PRO\Results\200515R1\200515R1-2.qld

Last Altered: Friday, May 15, 2020 9:50:28 AM Pacific Daylight Time
 Printed: Friday, May 15, 2020 10:33:54 AM Pacific Daylight Time

Name: 200515R1_2, Date: 15-May-2020, Time: 09:01:39, ID: B0D0306-BS1 OPR 10, Description: OPR

Penta-Furans

Total Penta-Furans	28.67	1.320e4	8.400e3	9.647e2	6.184e2	1.56	NO	1.583e3	0.24314	0.24314	0.126
Total Penta-Furans	28.82	2.474e4	1.209e4	2.304e3	6.004e2	3.84	YES	0.000e0	0.00000	0.23515	0.126
Total Penta-Furans	29.43	2.042e4	1.549e4	1.703e3	1.344e3	1.27	YES	0.000e0	0.00000	0.43033	0.126
Total Penta-Furans	29.64	1.945e4	1.199e4	1.042e3	7.408e2	1.41	NO	1.783e3	0.27378	0.27378	0.126
1,2,3,7,8-PeCDF	29.83	7.395e6	4.841e6	3.876e5	2.512e5	1.54	NO	6.388e5	96.246	96.246	0.130
Total Penta-Furans	30.10	7.121e4	3.482e4	5.061e3	2.793e3	1.81	YES	0.000e0	0.00000	1.0940	0.126
2,3,4,7,8-PeCDF	30.83	7.825e6	4.915e6	3.967e5	2.530e5	1.57	NO	6.497e5	95.830	95.830	0.115
Total Penta-Furans	31.78	2.781e4	1.994e4	1.843e3	9.724e2	1.90	YES	0.000e0	0.00000	0.38081	0.126

Hexa-Furans

Total Hexa-Furans	32.48	1.225e4	8.940e3	7.331e2	5.538e2	1.32	NO	1.287e3	0.26270	0.26270	0.170
Total Hexa-Furans	32.65	2.113e4	1.409e4	9.005e2	7.760e2	1.16	NO	1.677e3	0.34224	0.34224	0.170
1,2,3,4,7,8-HxCDF	33.65	5.597e6	4.647e6	2.702e5	2.241e5	1.21	NO	4.943e5	105.94	105.94	0.161
1,2,3,6,7,8-HxCDF	33.77	5.667e6	4.744e6	2.876e5	2.368e5	1.21	NO	5.243e5	104.36	104.36	0.160
2,3,4,6,7,8-HxCDF	34.35	5.288e6	4.467e6	2.884e5	2.403e5	1.20	NO	5.287e5	105.16	105.16	0.164
1,2,3,7,8,9-HxCDF	35.24	3.990e6	3.311e6	2.371e5	1.943e5	1.22	NO	4.315e5	105.26	105.26	0.229

Hepta-Furans

1,2,3,4,6,7,8-HpCDF	36.98	3.070e6	3.040e6	1.971e5	1.994e5	0.99	NO	3.964e5	109.45	109.45	0.189
1,2,3,4,7,8,9-HpCDF	38.98	2.839e6	2.923e6	1.672e5	1.671e5	1.00	NO	3.343e5	108.18	108.18	0.197

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Printed: Friday, May 15, 2020 10:33:21 AM Pacific Daylight Time

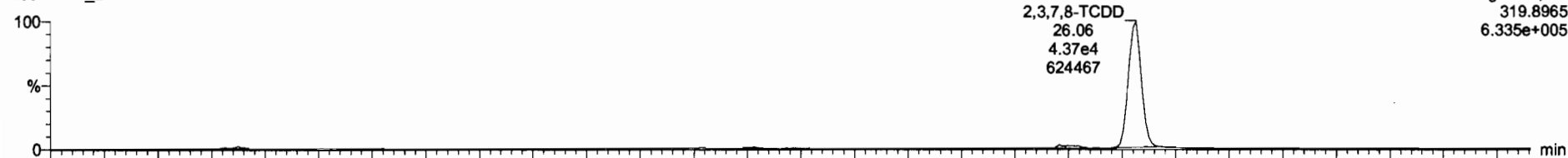
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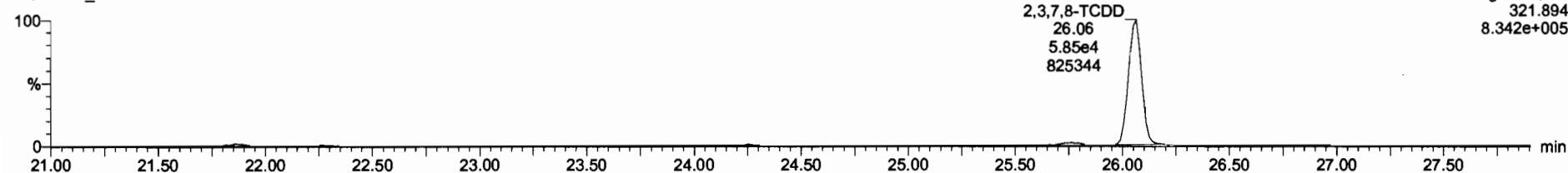
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2,3,7,8-TCDD

200515R1_2

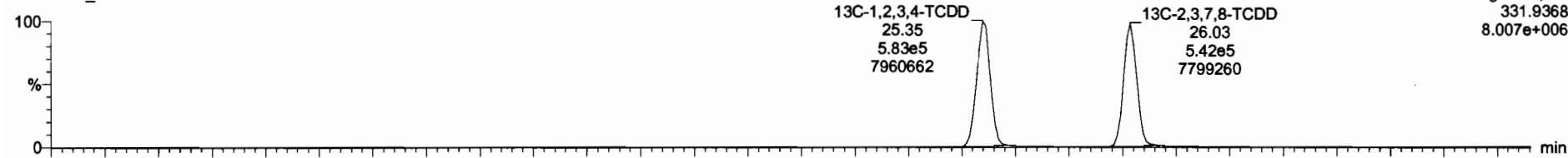


200515R1_2

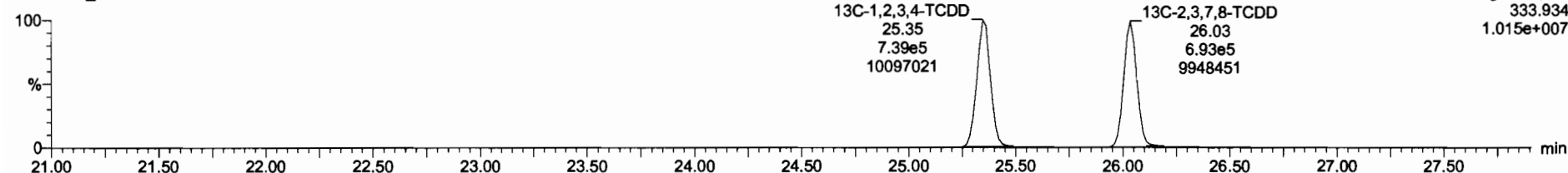


13C-2,3,7,8-TCDD

200515R1_2



200515R1_2



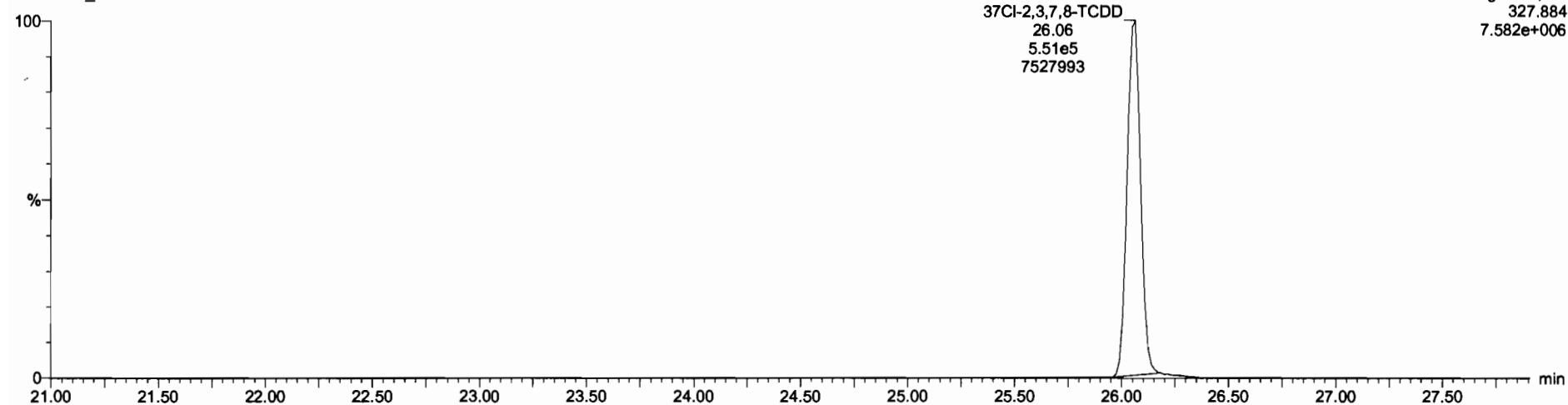
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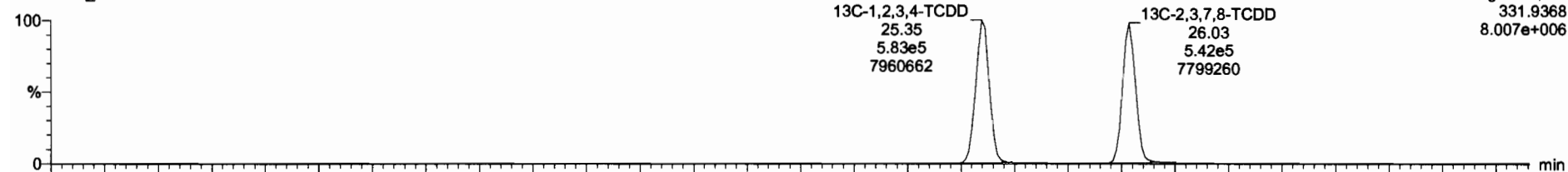
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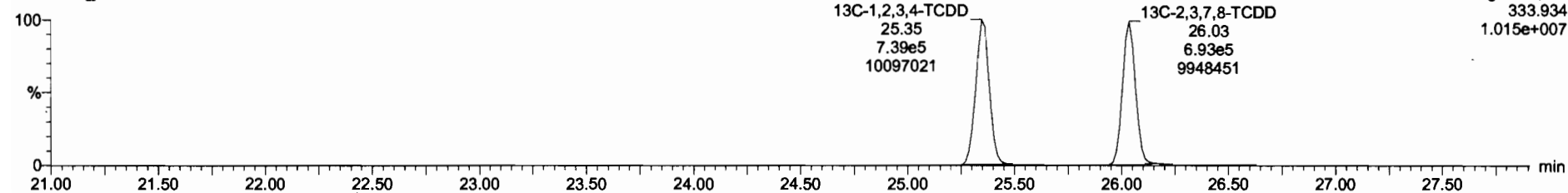


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200515R1_2



200515R1_2



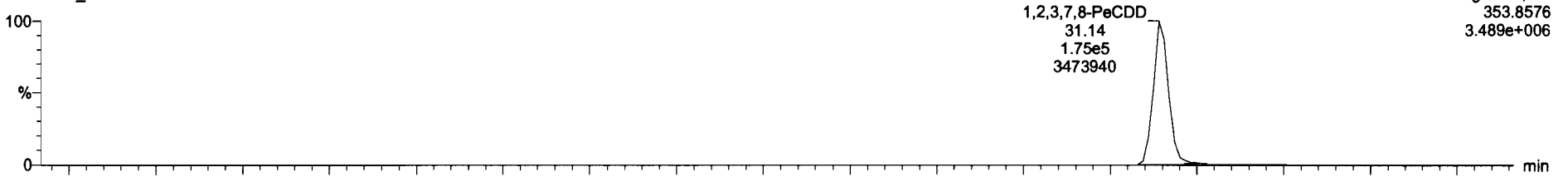
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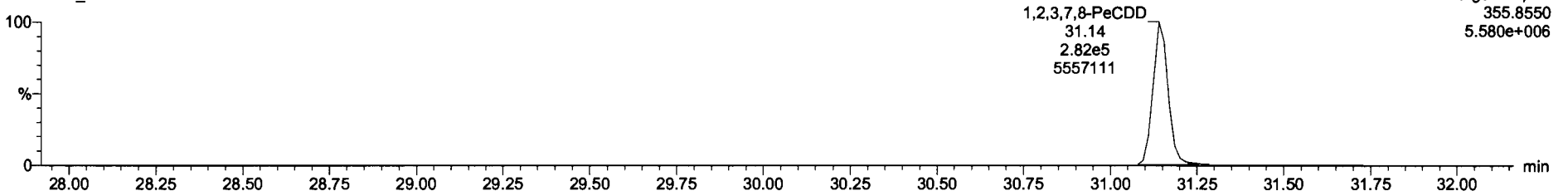
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1,2,3,7,8-PeCDD

200515R1_2

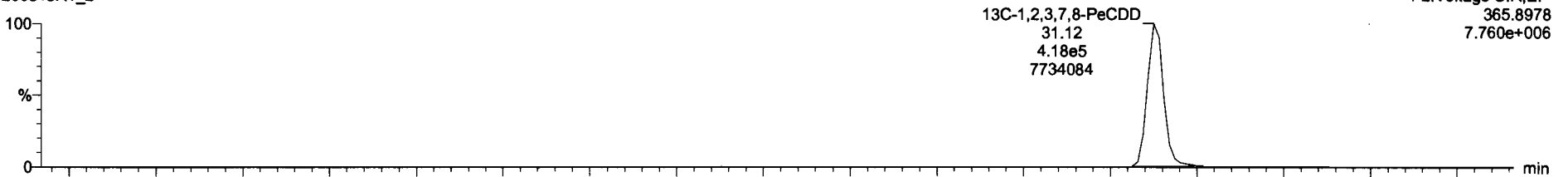


200515R1_2

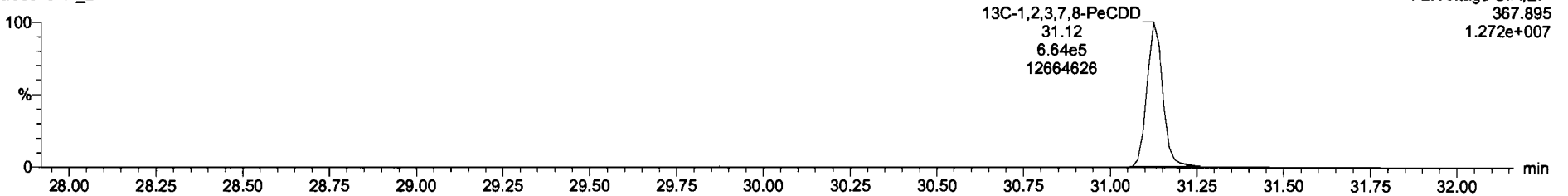


13C-1,2,3,7,8-PeCDD

200515R1_2



200515R1_2



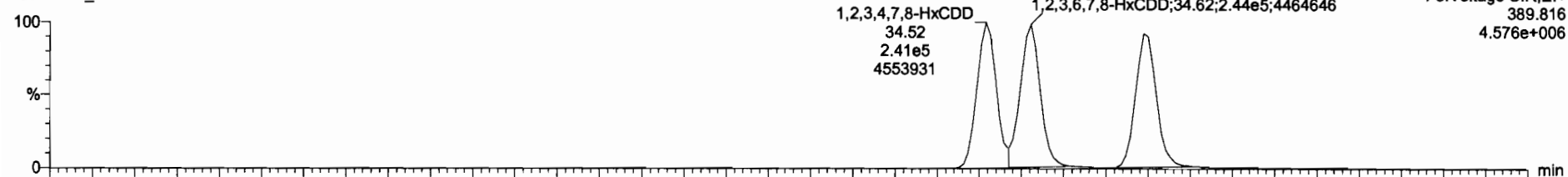
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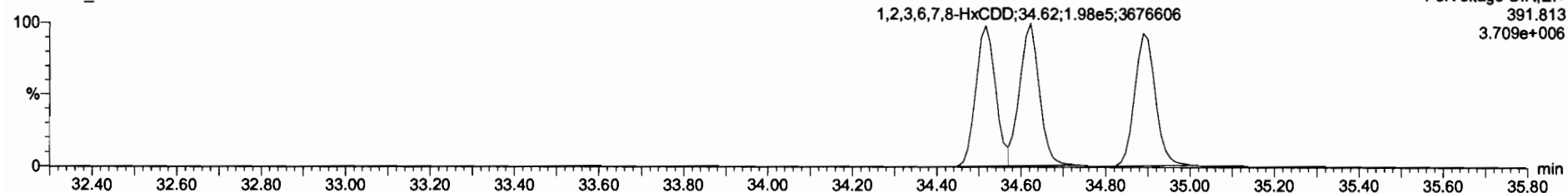
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1,2,3,4,7,8-HxCDD

200515R1_2

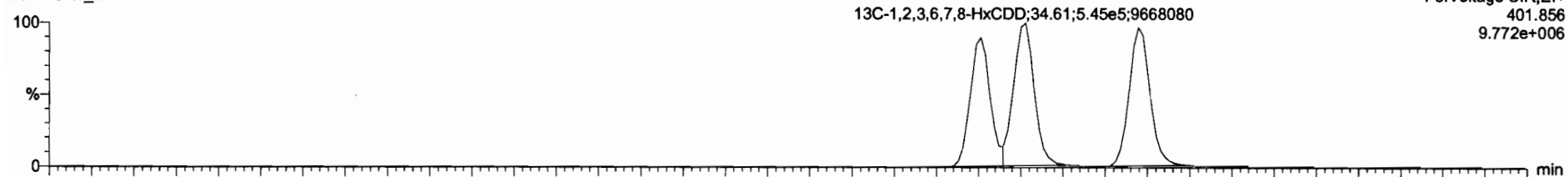


200515R1_2

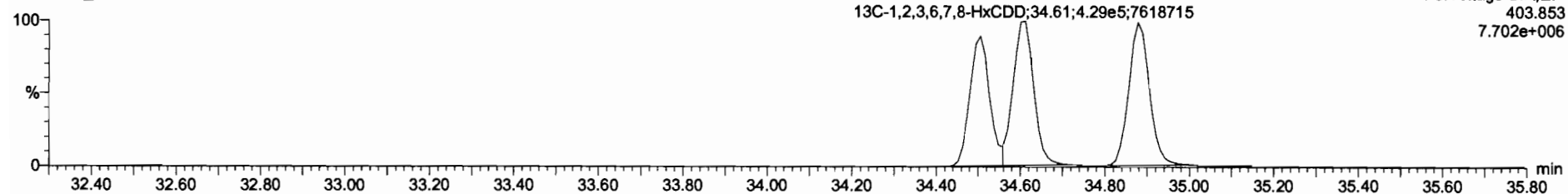


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200515R1_2



200515R1_2



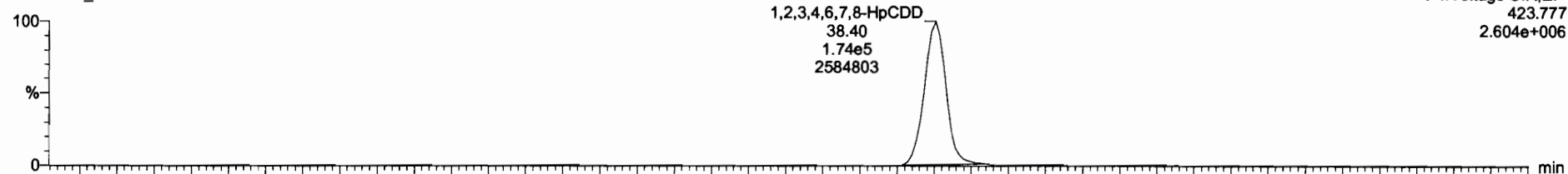
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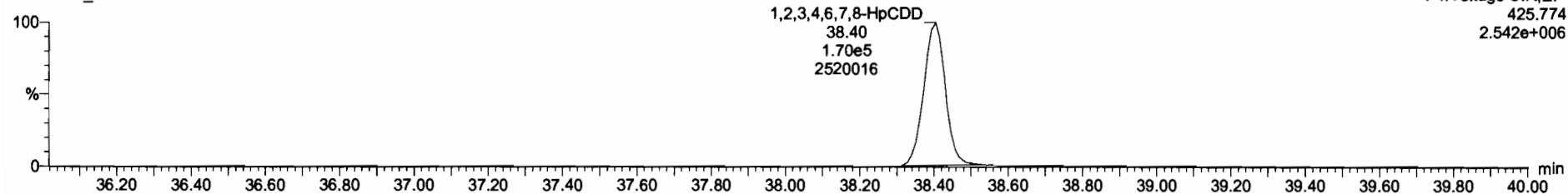
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1,2,3,4,6,7,8-HpCDD

200515R1_2

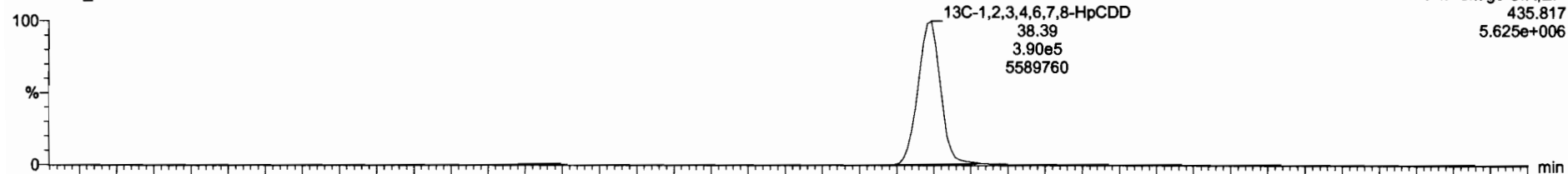


200515R1_2

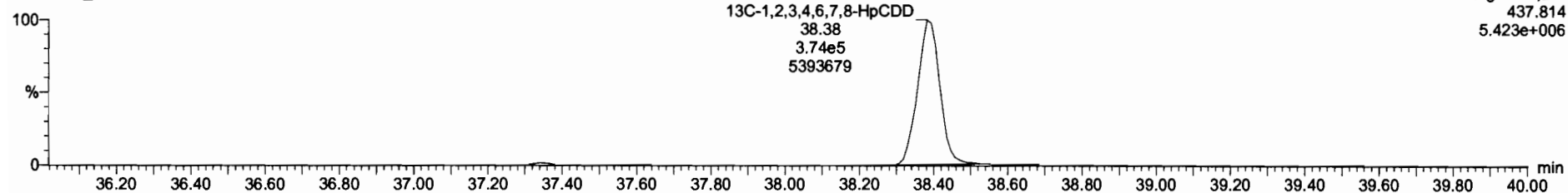


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200515R1_2



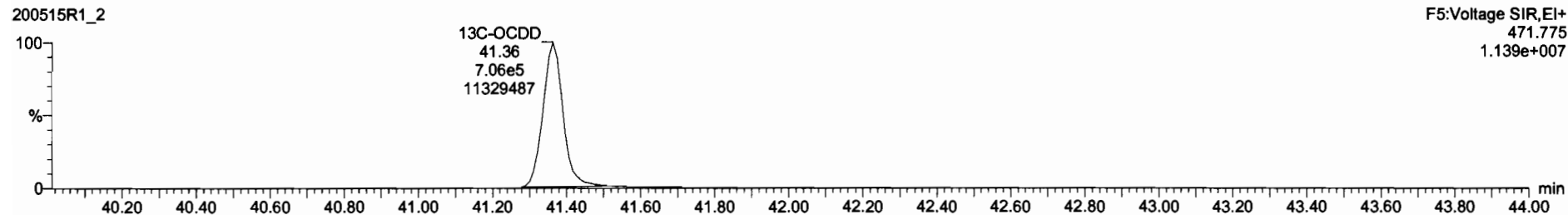
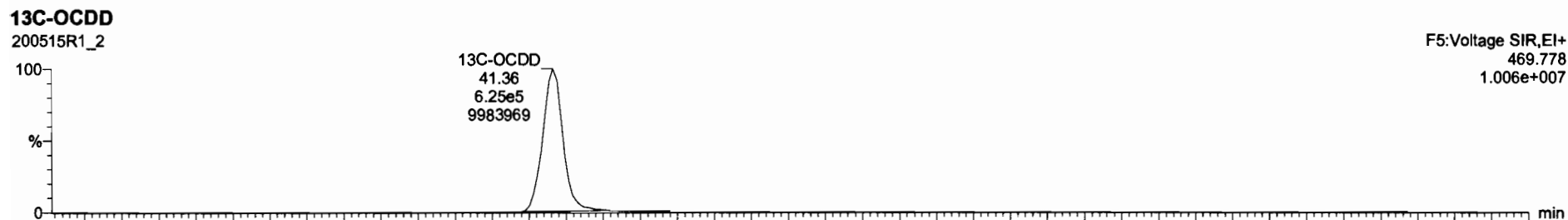
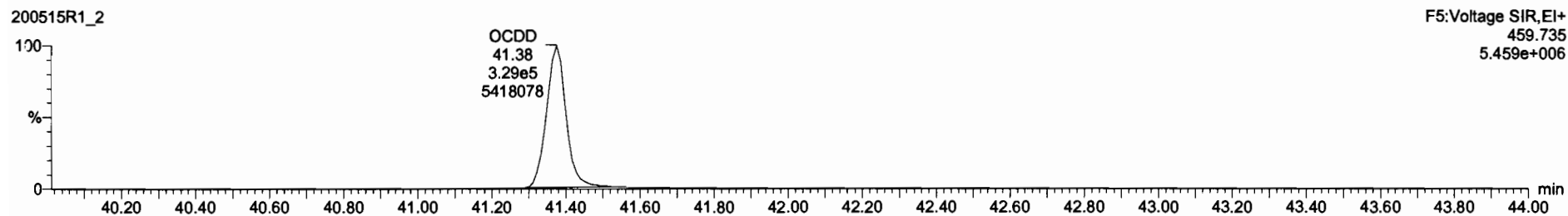
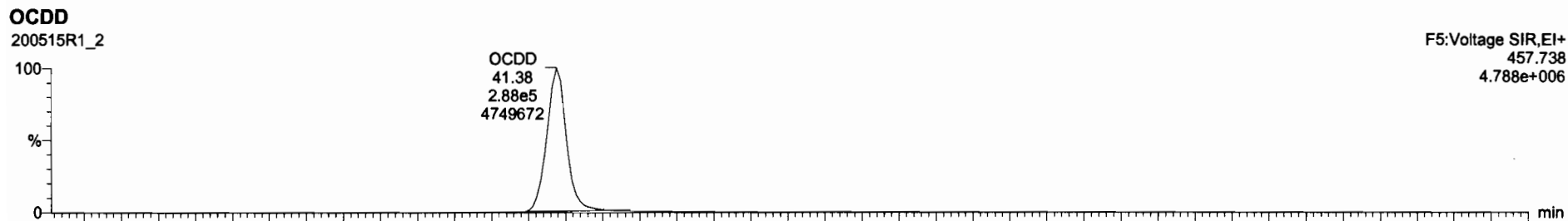
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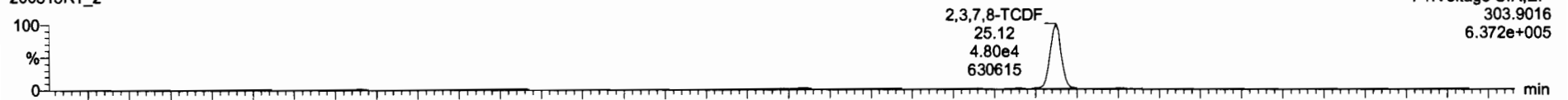
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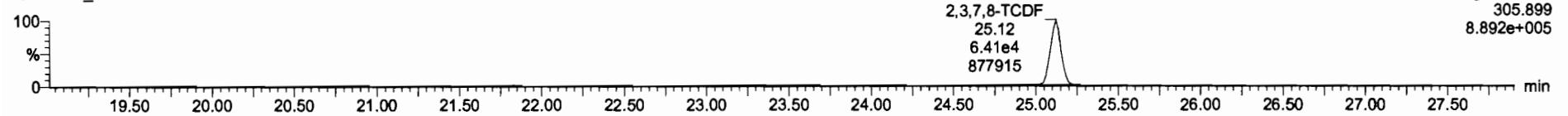
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2,3,7,8-TCDF

200515R1_2

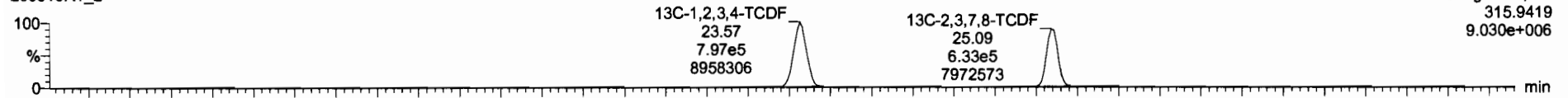


200515R1_2

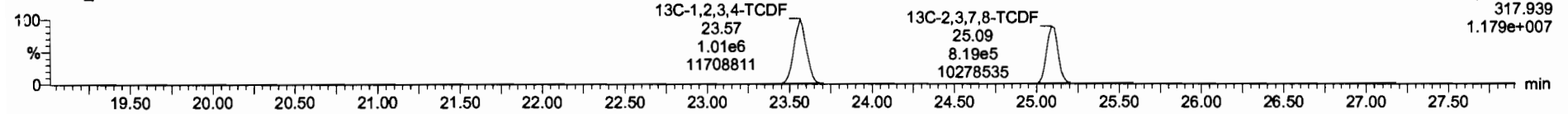


13C-2,3,7,8-TCDF

200515R1_2

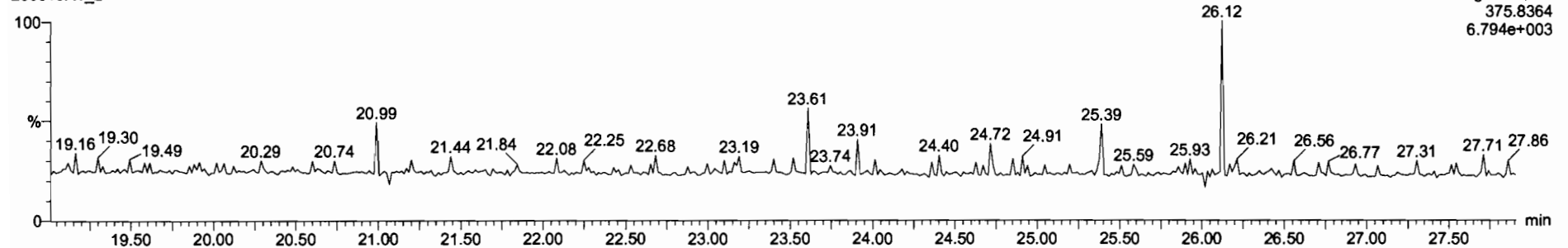


200515R1_2



DPE1

200515R1_2



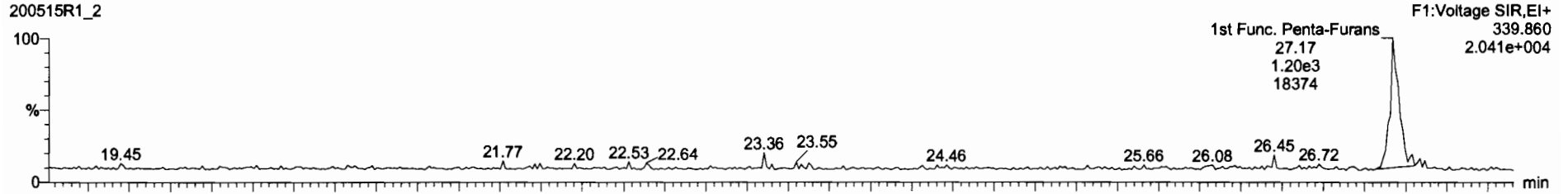
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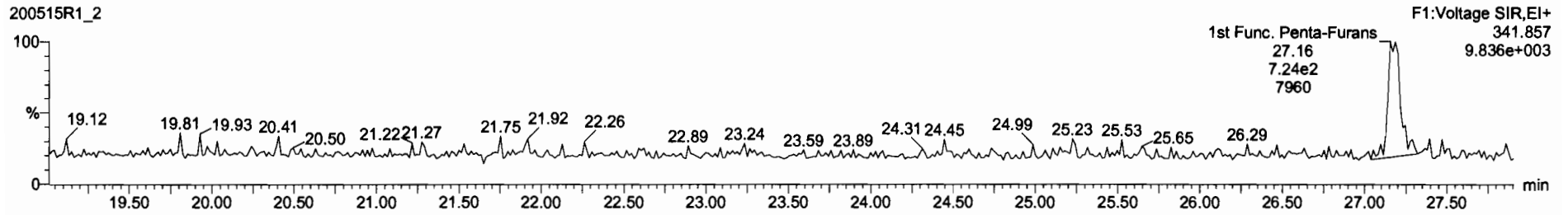
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1st Func. Penta-Furans

200515R1_2

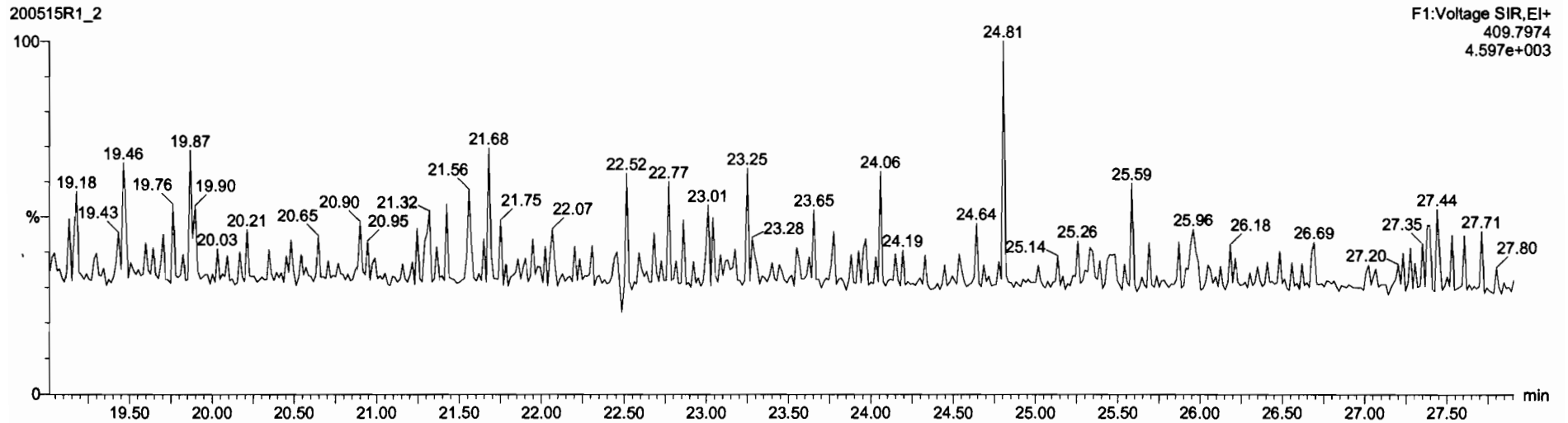


200515R1_2



DPE6

200515R1_2



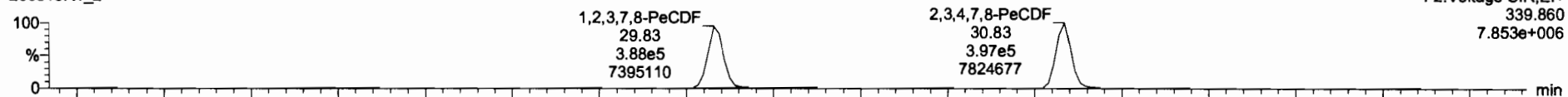
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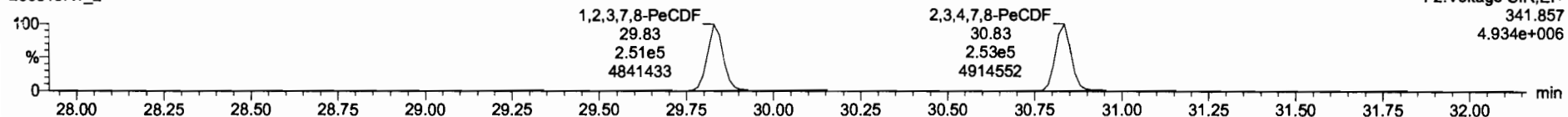
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1,2,3,7,8-PeCDF

200515R1_2

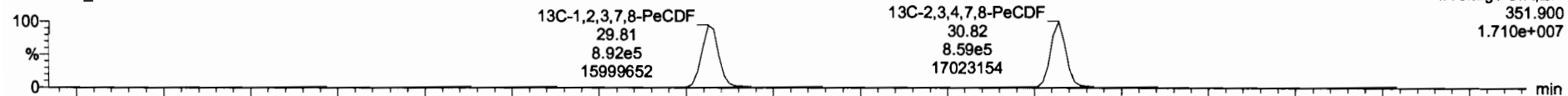


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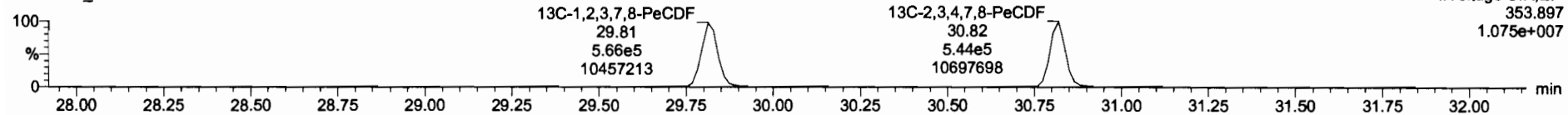


13C-1,2,3,7,8-PeCDF

200515R1_2

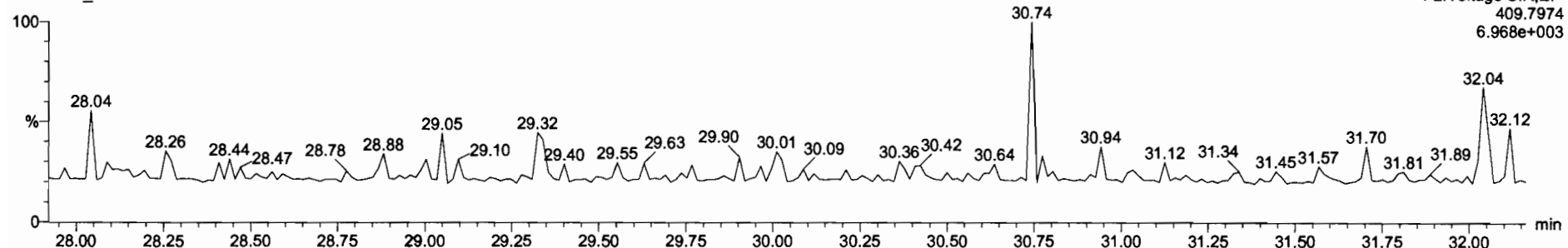


200515R1_2



DPE2

200515R1_2



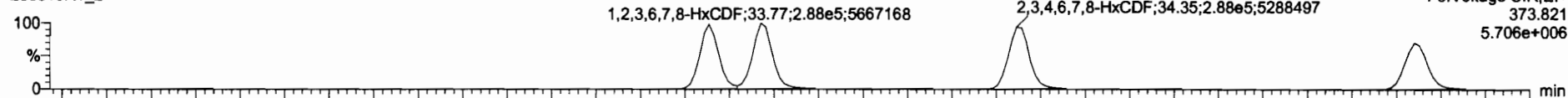
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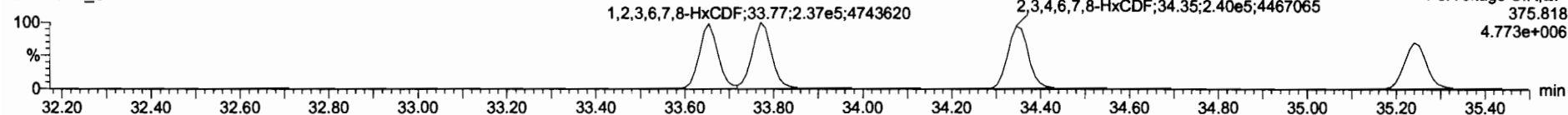
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1,2,3,4,7,8-HxCDF

200515R1_2

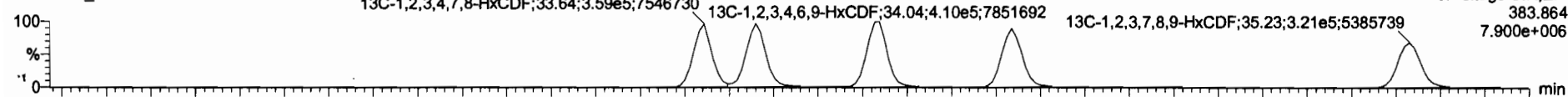


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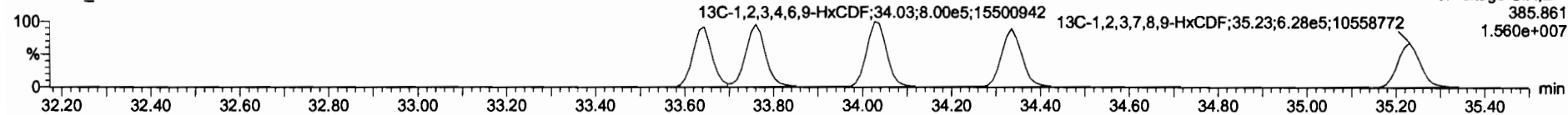


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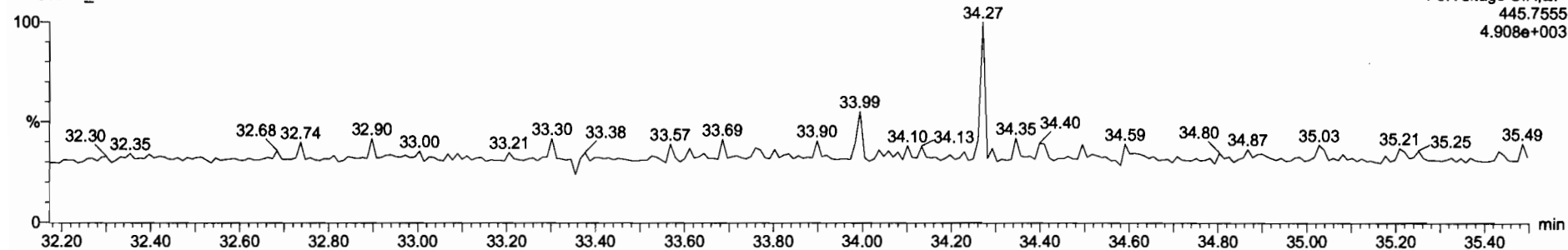


200515R1_2



DPE3

200515R1_2



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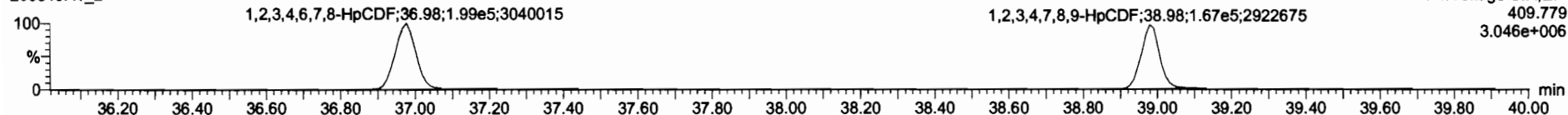
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1,2,3,4,6,7,8-HpCDF

200515R1_2

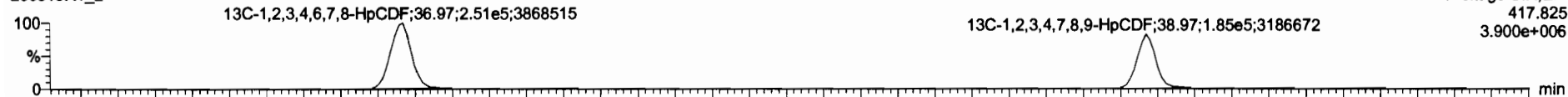


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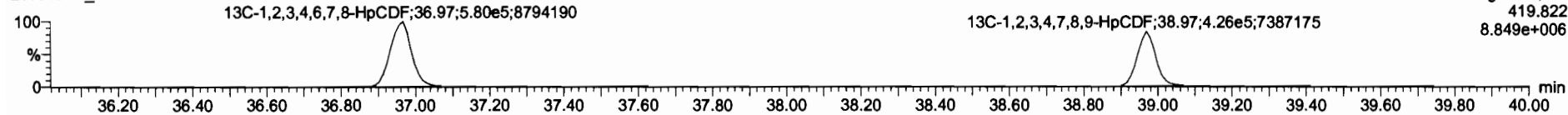


13C-1,2,3,4,6,7,8-HpCDF

200515R1_2

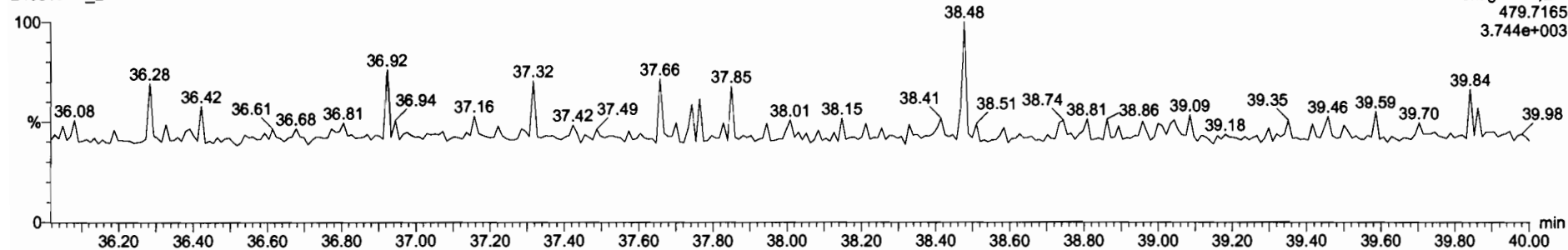


200515R1_2



DPE4

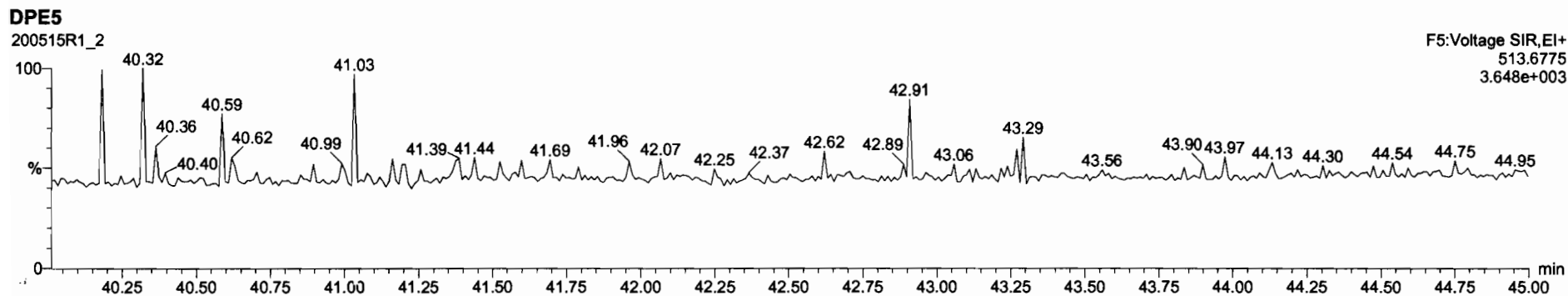
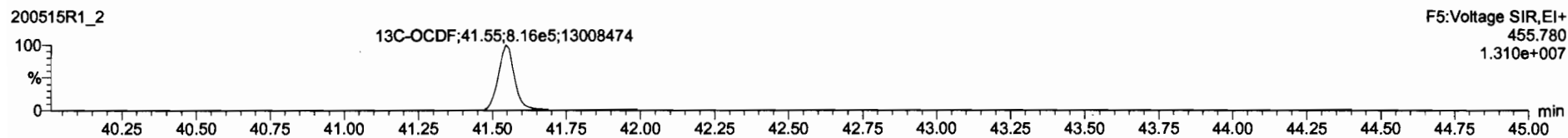
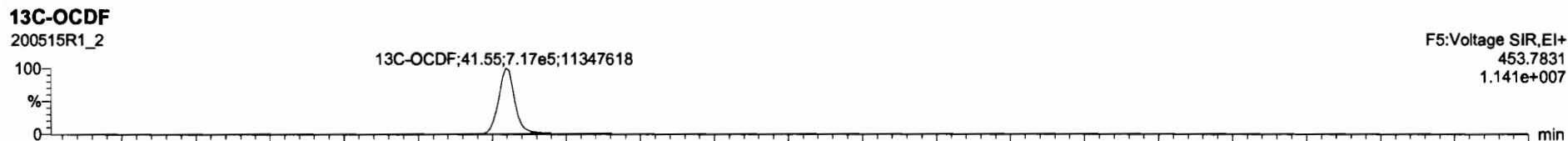
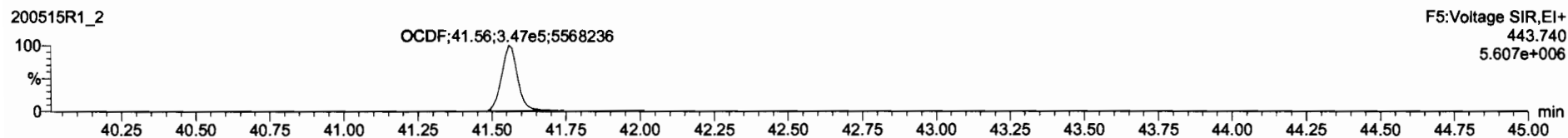
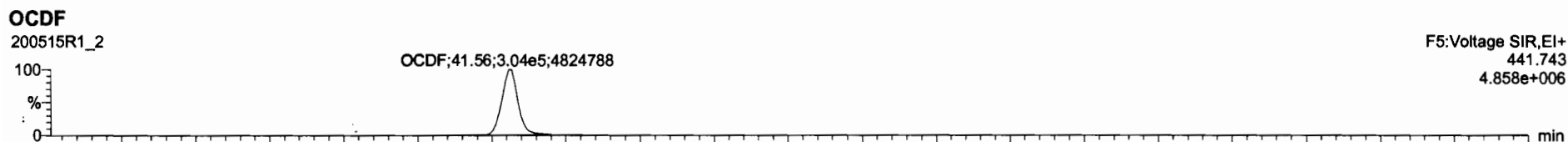
200515R1_2



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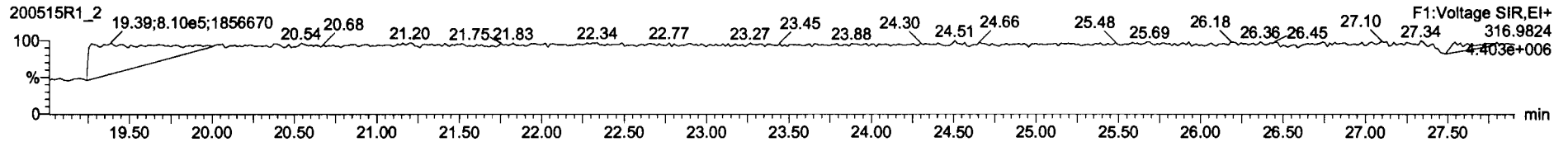


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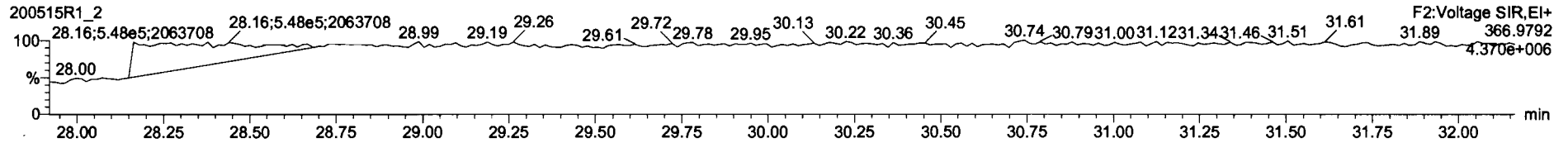
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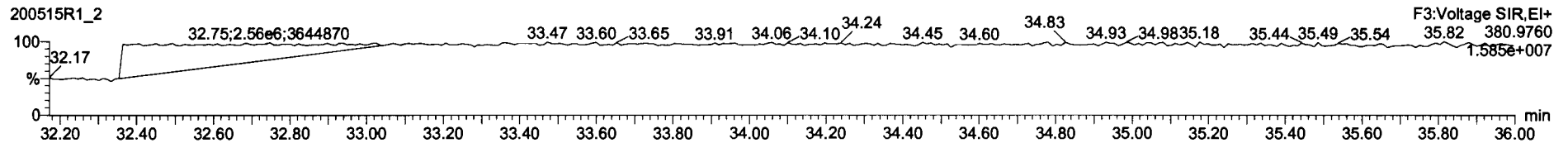
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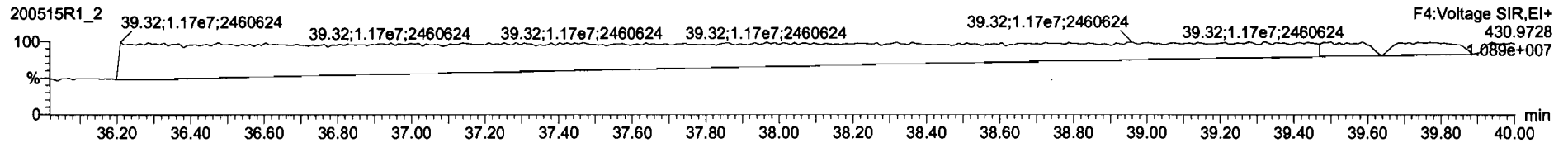
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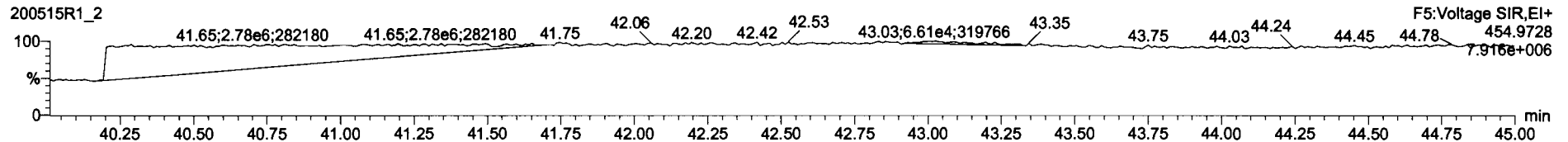
PFK3



PFK4



PFK5



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GFB 05/22/2020

C7 05/22/2020

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

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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	6.90e3	0.69	NO	0.947	10.114	26.096	26.08	1.001	1.001	1.0890		0.202	1.09
2	2 1,2,3,7,8-PeCDD	5.51e3	0.55	NO	0.942	10.114	31.162	31.16	1.001	1.000	0.94770		0.0962	0.948
3	3 1,2,3,4,7,8-HxCDD	3.67e3	1.27	NO	1.06	10.114	34.537	34.54	1.000	1.000	0.68698		0.217	0.687
4	4 1,2,3,6,7,8-HxCDD	2.95e4	1.31	NO	0.915	10.114	34.623	34.64	1.000	1.001	5.0327		0.210	5.03
5	5 1,2,3,7,8,9-HxCDD	1.14e4	1.13	NO	0.915	10.114	34.910	34.92	1.000	1.001	1.9971		0.227	2.00
6	6 1,2,3,4,6,7,8-HpCDD	5.77e5	1.02	NO	0.898	10.114	38.426	38.42	1.000	1.000	119.60		0.430	120
7	7 OCDD	6.66e6	0.89	NO	0.933	10.114	41.396	41.41	1.000	1.000	1425.0		0.485	1430
8	8 2,3,7,8-TCDF	5.51e5	0.75	NO	0.787	10.114	25.161	25.17	1.001	1.001	87.255	(18.7)	0.277	87.3
9	9 1,2,3,7,8-PeCDF	7.44e5	1.56	NO	0.910	10.114	29.849	29.84	1.001	1.001	96.212		0.191	96.2
10	10 2,3,4,7,8-PeCDF	3.91e5	1.53	NO	0.966	10.114	30.854	30.85	1.001	1.000	49.841		0.193	49.8
11	11 1,2,3,4,7,8-HxCDF	6.55e5	1.21	NO	0.878	10.114	33.653	33.67	1.000	1.001	115.91		0.315	116
12	12 1,2,3,6,7,8-HxCDF	2.07e5	1.23	NO	0.874	10.114	33.791	33.79	1.000	1.000	32.485		0.304	32.5
13	13 2,3,4,6,7,8-HxCDF	6.17e4	1.21	NO	0.922	10.114	34.390	34.37	1.001	1.000	9.4160		0.296	9.42
14	14 1,2,3,7,8,9-HxCDF	6.94e4	1.19	NO	0.864	10.114	35.251	35.30	1.000	1.002	13.298		0.449	13.3
15	15 1,2,3,4,6,7,8-HpCDF	3.14e5	1.01	NO	0.871	10.114	37.024	37.00	1.001	1.000	64.949		0.343	64.9
16	16 1,2,3,4,7,8,9-HpCDF	7.13e4	1.00	NO	1.01	10.114	38.989	39.00	1.000	1.000	17.464		0.356	17.5
17	17 OCDF	5.46e5	0.86	NO	0.802	10.114	41.577	41.59	1.000	1.000	124.16		0.174	124
18	18 13C-2,3,7,8-TCDD	1.32e6	0.78	NO	1.16	10.114	26.061	26.07	1.026	1.027	134.52	68.0	0.166	
19	19 13C-1,2,3,7,8-PeCDD	1.22e6	0.63	NO	0.847	10.114	31.160	31.14	1.227	1.226	169.95	85.9	0.153	
20	20 13C-1,2,3,4,7,8-HxCDD	9.92e5	1.27	NO	0.750	10.114	34.527	34.53	1.014	1.014	160.55	81.2	0.415	
21	21 13C-1,2,3,6,7,8-HxCDD	1.27e6	1.27	NO	0.963	10.114	34.639	34.62	1.017	1.017	159.84	80.8	0.323	
22	22 13C-1,2,3,7,8,9-HxCDD	1.23e6	1.24	NO	0.838	10.114	34.908	34.90	1.025	1.025	178.04	90.0	0.372	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.06e6	1.08	NO	0.641	10.114	38.402	38.41	1.128	1.128	200.93	102	0.389	
24	24 13C-OCDD	1.98e6	0.93	NO	0.586	10.114	41.398	41.40	1.216	1.216	410.12	104	0.400	
25	25 13C-2,3,7,8-TCDF	1.59e6	0.79	NO	1.03	10.114	25.119	25.14	0.989	0.990	124.46	62.9	0.272	
26	26 13C-1,2,3,7,8-PeCDF	1.68e6	1.61	NO	0.845	10.114	29.847	29.83	1.176	1.175	161.25	81.5	0.241	
27	27 13C-2,3,4,7,8-PeCDF	1.61e6	1.57	NO	0.814	10.114	30.840	30.83	1.215	1.214	160.12	81.0	0.250	
28	28 13C-1,2,3,4,7,8-HxCDF	1.27e6	0.51	NO	1.00	10.114	33.666	33.65	0.989	0.988	153.73	77.7	0.305	
29	29 13C-1,2,3,6,7,8-HxCDF	1.44e6	0.51	NO	1.14	10.114	33.788	33.78	0.992	0.992	154.03	77.9	0.270	
30	30 13C-2,3,4,6,7,8-HxCDF	1.40e6	0.51	NO	1.02	10.114	34.357	34.36	1.009	1.009	166.78	84.3	0.300	
31	31 13C-1,2,3,7,8,9-HxCDF	1.19e6	0.51	NO	0.845	10.114	35.249	35.25	1.035	1.035	171.47	86.7	0.363	

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Name: 200516R1_3, Date: 16-May-2020, Time: 10:44:33, ID: 2000946-01 PDI-162SC-A-00-01-200424 19.45, Description: PDI-162SC-A-00-01-200424

#	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	1.10e6	0.43	NO	0.771	10.114	36.982	36.99	1.086	1.086	172.72	87.3	0.375	
33	33 13C-1,2,3,4,7,8,9-HpCDF	7.98e5	0.41	NO	0.482	10.114	38.994	38.99	1.145	1.145	200.72	102	0.600	
34	34 13C-OCDF	2.17e6	0.88	NO	0.659	10.114	41.568	41.58	1.221	1.221	393.79	99.6	0.276	
35	35 37Cl-2,3,7,8-TCDD	5.04e5			1.10	10.114	26.092	26.09	1.028	1.028	54.135	68.4	0.0784	
36	36 13C-1,2,3,4-TCDD	1.68e6	0.79	NO	1.00	10.114	25.350	25.39	1.000	1.000	197.75	100	0.193	
37	37 13C-1,2,3,4-TCDF	2.44e6	0.79	NO	1.00	10.114	23.560	23.63	1.000	1.000	197.75	100	0.282	
38	38 13C-1,2,3,4,6,9-HxCDF	1.63e6	0.51	NO	1.00	10.114	34.000	34.05	1.000	1.000	197.75	100	0.307	
39	39 Total Tetra-Dioxins				0.947	10.114	24.620		0.000		11.496		0.202	11.7
40	40 Total Penta-Dioxins				0.942	10.114	29.960		0.000		10.689		0.0962	12.7
41	41 Total Hexa-Dioxins				0.915	10.114	33.635		0.000		56.534		0.228	56.5
42	42 Total Hepta-Dioxins				0.898	10.114	37.640		0.000		308.52		0.430	309
43	43 Total Tetra-Furans				0.787	10.114	23.610		0.000		278.29		0.277	278
44	44 1st Func. Penta-Furans				0.910	10.114	27.090		0.000		34.378		0.0836	34.4
45	45 Total Penta-Furans				0.910	10.114	29.275		0.000		280.04		0.198	289
46	46 Total Hexa-Furans				0.922	10.114	33.555		0.000		262.64		0.323	263
47	47 Total Hepta-Furans				0.871	10.114	37.835		0.000		218.30		0.373	218

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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

Name: 200516R1_3, Date: 16-May-2020, Time: 10:44:33, ID: 2000946-01 PDI-162SC-A-00-01-200424 19.45, Description: PDI-162SC-A-00-01-200424

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.93	1.553e5	2.025e5	1.418e4	1.789e4	0.79	NO	3.207e4	5.0626	5.0626	0.202
2	Total Tetra-Dioxins	22.35	3.572e4	4.215e4	3.548e3	4.041e3	0.88	NO	7.589e3	1.1980	1.1980	0.202
3	Total Tetra-Dioxins	22.86	1.715e4	1.975e4	1.639e3	1.967e3	0.83	NO	3.607e3	0.56937	0.56937	0.202
4	Total Tetra-Dioxins	23.74	3.476e4	1.714e4	7.116e2	4.648e2	1.53	YES	0.000e0	0.00000	0.12988	0.202
5	Total Tetra-Dioxins	23.81	1.143e4	1.182e4	8.503e2	1.010e3	0.84	NO	1.860e3	0.29363	0.29363	0.202
6	Total Tetra-Dioxins	24.00	9.003e3	2.726e4	2.811e2	5.437e2	0.52	YES	0.000e0	0.00000	0.10203	0.202
7	Total Tetra-Dioxins	24.09	1.319e4	2.001e4	1.192e3	1.709e3	0.70	NO	2.902e3	0.45811	0.45811	0.202
8	Total Tetra-Dioxins	24.33	2.241e4	3.144e4	1.915e3	2.507e3	0.76	NO	4.422e3	0.69807	0.69807	0.202
9	Total Tetra-Dioxins	24.54	7.332e3	7.928e3	5.692e2	6.762e2	0.84	NO	1.245e3	0.19661	0.19661	0.202
10	Total Tetra-Dioxins	24.84	1.056e4	1.294e4	7.050e2	9.751e2	0.72	NO	1.680e3	0.26522	0.26522	0.202
11	Total Tetra-Dioxins	25.00	8.516e3	1.296e4	5.581e2	8.327e2	0.67	NO	1.391e3	0.21956	0.21956	0.202
12	Total Tetra-Dioxins	25.36	7.727e3	9.001e3	5.842e2	8.221e2	0.71	NO	1.406e3	0.22201	0.22201	0.202
13	Total Tetra-Dioxins	25.81	3.175e4	4.276e4	2.485e3	3.069e3	0.81	NO	5.554e3	0.87680	0.87680	0.202
14	2,3,7,8-TCDD	26.08	4.505e4	6.001e4	2.826e3	4.073e3	0.69	NO	6.898e3	1.0890	1.0890	0.202
15	Total Tetra-Dioxins	26.42	9.430e3	1.184e4	6.635e2	8.000e2	0.83	NO	1.463e3	0.23103	0.23103	0.202
16	Total Tetra-Dioxins	27.07	5.236e3	5.066e3	3.277e2	4.094e2	0.80	NO	7.371e2	0.11637	0.11637	0.202

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Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.90	1.066e5	1.874e5	8.876e3	1.460e4	0.61	NO	2.354e4	4.0465	4.0465	0.0962
2	Total Penta-Dioxins	29.39	5.068e4	6.190e4	2.406e3	3.341e3	0.63	NO	6.247e3	1.0740	1.0740	0.0962
3	Total Penta-Dioxins	29.89	9.378e4	1.419e5	5.049e3	7.988e3	0.63	NO	1.304e4	2.2414	2.2414	0.0962
4	Total Penta-Dioxins	30.04	3.547e4	6.969e4	2.047e3	3.432e3	0.60	NO	5.479e3	0.94190	0.94190	0.0962
5	Total Penta-Dioxins	30.16	3.402e4	3.916e4	1.847e3	2.590e3	0.71	NO	4.437e3	0.76285	0.76285	0.0962
6	Total Penta-Dioxins	30.38	4.534e4	8.169e4	2.154e3	3.776e3	0.57	NO	0.000e0	0.00000	1.0196	0.0962
7	Total Penta-Dioxins	30.41	2.990e4	5.166e4	1.527e3	2.156e3	0.71	NO	0.000e0	0.00000	0.63317	0.0962
8	Total Penta-Dioxins	30.71	1.534e4	1.873e4	7.157e2	1.051e3	0.68	NO	1.767e3	0.30377	0.30377	0.0962
9	1,2,3,7,8-PeCDD	31.16	3.103e4	6.216e4	1.952e3	3.561e3	0.55	NO	5.513e3	0.94770	0.94770	0.0962
10	Total Penta-Dioxins	31.20	1.062e4	1.699e4	7.164e2	9.682e2	0.74	YES	0.000e0	0.00000	0.27132	0.0962
11	Total Penta-Dioxins	31.43	9.894e3	6.686e3	4.772e2	2.099e2	2.27	YES	0.000e0	0.00000	0.058831	0.0962
12	Total Penta-Dioxins	31.54	1.703e4	2.247e4	8.640e2	1.292e3	0.67	NO	2.156e3	0.37071	0.37071	0.0962

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.05	1.254e6	1.022e6	6.991e4	5.554e4	1.26	NO	1.254e5	23.325	23.325	0.228
2	Total Hexa-Dioxins	33.60	1.106e5	8.868e4	6.695e3	5.132e3	1.30	NO	1.183e4	2.1991	2.1991	0.228
3	Total Hexa-Dioxins	33.86	8.828e5	6.778e5	6.310e4	5.001e4	1.26	NO	1.131e5	21.031	21.031	0.228
4	Total Hexa-Dioxins	33.93	7.235e4	6.262e4	4.981e3	3.779e3	1.32	NO	8.761e3	1.6289	1.6289	0.228
5	1,2,3,4,7,8-HxCDD	34.54	3.902e4	3.116e4	2.051e3	1.617e3	1.27	NO	3.667e3	0.68698	0.68698	0.217
6	1,2,3,6,7,8-HxCDD	34.64	2.287e5	1.847e5	1.673e4	1.279e4	1.31	NO	2.952e4	5.0327	5.0327	0.210
7	Total Hexa-Dioxins	34.83	2.763e4	2.325e4	1.817e3	1.591e3	1.14	NO	3.408e3	0.63370	0.63370	0.228
8	1,2,3,7,8,9-HxCDD	34.92	8.190e4	7.904e4	6.012e3	5.340e3	1.13	NO	1.135e4	1.9971	1.9971	0.227

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.39	5.279e6	5.209e6	4.615e5	4.495e5	1.03	NO	9.110e5	188.92	188.92	0.430
2	1,2,3,4,6,7,8-HpCDD	38.42	3.504e6	3.378e6	2.916e5	2.851e5	1.02	NO	5.767e5	119.60	119.60	0.430

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Work Order Name: 200516R1_3, Date: 15-May-2020, Time: 10:44:33, ID: 2000946-01 PDI-162SC-A-00-01-200424 19.45, Description: PDI-162SC-A-00-01-200424

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.87	3.293e4	4.632e4	2.224e3	3.131e3	0.71	NO	5.356e3	0.84788	0.84788	0.277
2	Total Tetra-Furans	20.39	6.114e4	8.581e4	5.217e3	7.044e3	0.74	NO	1.226e4	1.9413	1.9413	0.277
3	Total Tetra-Furans	20.98	3.327e5	4.503e5	2.971e4	3.859e4	0.77	NO	6.830e4	10.813	10.813	0.277
4	Total Tetra-Furans	21.42	3.461e4	4.777e4	1.966e3	2.490e3	0.79	NO	4.456e3	0.70546	0.70546	0.277
5	Total Tetra-Furans	21.51	1.153e5	1.501e5	1.352e4	1.775e4	0.76	NO	3.127e4	4.9511	4.9511	0.277
6	Total Tetra-Furans	21.90	6.470e5	8.426e5	6.197e4	8.116e4	0.76	NO	1.431e5	22.661	22.661	0.277
7	Total Tetra-Furans	22.37	2.999e5	4.113e5	2.690e4	3.688e4	0.73	NO	6.379e4	10.098	10.098	0.277
8	Total Tetra-Furans	22.56	2.747e4	3.589e4	2.443e3	3.486e3	0.70	NO	5.929e3	0.93868	0.93868	0.277
9	Total Tetra-Furans	22.74	9.569e4	1.328e5	9.238e3	1.256e4	0.74	NO	2.180e4	3.4507	3.4507	0.277
10	Total Tetra-Furans	23.18	1.758e4	2.008e4	1.775e3	2.028e3	0.88	NO	3.803e3	0.60206	0.60206	0.277
11	Total Tetra-Furans	23.35	2.578e4	3.256e4	2.184e3	3.211e3	0.68	NO	5.396e3	0.85425	0.85425	0.277
12	Total Tetra-Furans	23.53	1.878e5	2.531e5	1.385e4	1.847e4	0.75	NO	3.232e4	5.1171	5.1171	0.277
13	Total Tetra-Furans	23.64	3.358e5	4.597e5	3.690e4	4.915e4	0.75	NO	8.605e4	13.623	13.623	0.277
14	Total Tetra-Furans	24.01	2.031e4	2.673e4	3.046e2	4.120e2	0.74	NO	7.166e2	0.11345	0.11345	0.277
15	Total Tetra-Furans	24.18	2.647e6	3.508e6	2.242e5	2.994e5	0.75	NO	5.236e5	82.898	82.898	0.277
16	Total Tetra-Furans	24.28	5.692e4	7.199e4	2.845e3	4.240e3	0.67	NO	7.085e3	1.1217	1.1217	0.277
17	Total Tetra-Furans	24.48	9.634e4	1.254e5	7.684e3	1.058e4	0.73	NO	1.826e4	2.8908	2.8908	0.277
18	Total Tetra-Furans	24.73	2.307e4	2.720e4	2.321e3	2.820e3	0.82	NO	5.141e3	0.81390	0.81390	0.277
19	Total Tetra-Furans	24.93	3.172e4	3.412e4	1.834e3	2.385e3	0.77	NO	4.219e3	0.66792	0.66792	0.277
20	Total Tetra-Furans	25.05	4.010e5	5.242e5	2.586e4	3.441e4	0.75	NO	6.027e4	9.5425	9.5425	0.277
21	2,3,7,8-TCDF	25.17	2.941e6	3.834e6	2.370e5	3.141e5	0.75	NO	5.511e5	87.255	87.255	0.277
22	Total Tetra-Furans	25.29	3.683e4	5.649e4	3.107e3	4.182e3	0.74	NO	7.289e3	1.1540	1.1540	0.277
23	Total Tetra-Furans	25.54	1.375e5	1.793e5	1.026e4	1.389e4	0.74	NO	2.415e4	3.8230	3.8230	0.277
24	Total Tetra-Furans	25.80	2.578e4	3.686e4	1.715e3	2.590e3	0.66	NO	4.306e3	0.68169	0.68169	0.277
25	Total Tetra-Furans	26.65	1.745e4	6.876e3	1.068e3	3.608e2	2.96	YES	0.000e0	0.00000	0.10111	0.277
26	Total Tetra-Furans	26.78	1.271e4	1.467e4	7.588e2	8.885e2	0.85	NO	1.647e3	0.26081	0.26081	0.277
27	Total Tetra-Furans	26.95	1.592e4	1.576e4	1.081e3	1.252e3	0.86	NO	2.333e3	0.36937	0.36937	0.277
28	Total Tetra-Furans	27.23	4.597e5	5.058e5	2.980e4	3.398e4	0.88	NO	6.378e4	10.097	10.097	0.277

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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	1st Func. Penta-Furans	27.22	2.620e6	1.633e6	1.595e5	1.005e5	1.59	NO	2.600e5	34.378	34.378	0.0836

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	1.617e5	1.258e5	9.594e3	6.395e3	1.50	NO	1.599e4	2.1142	2.1142	0.198
2	Total Penta-Furans	28.84	3.973e6	2.563e6	2.677e5	1.726e5	1.55	NO	4.403e5	58.222	58.222	0.198
3	Total Penta-Furans	28.91	2.445e5	1.891e5	8.549e3	6.455e3	1.32	NO	1.500e4	1.9839	1.9839	0.198
4	Total Penta-Furans	29.43	5.703e5	3.633e5	3.442e4	2.161e4	1.59	NO	0.000e0	0.00000	7.4083	0.198
5	Total Penta-Furans	29.48	2.105e5	1.271e5	7.760e3	4.845e3	1.60	NO	0.000e0	0.00000	1.6668	0.198
6	Total Penta-Furans	29.66	1.082e6	6.665e5	5.761e4	3.736e4	1.54	NO	9.497e4	12.558	12.558	0.198
7	1,2,3,7,8-PeCDF	29.84	8.068e6	5.207e6	4.527e5	2.910e5	1.56	NO	7.438e5	96.212	96.212	0.191
8	Total Penta-Furans	29.92	3.067e5	1.913e5	1.229e4	7.634e3	1.61	NO	1.993e4	2.6347	2.6347	0.198
9	Total Penta-Furans	30.12	3.180e6	2.040e6	1.803e5	1.154e5	1.56	NO	2.957e5	39.098	39.098	0.198
10	Total Penta-Furans	30.19	1.089e5	6.256e4	4.139e3	2.583e3	1.60	NO	6.722e3	0.88885	0.88885	0.198
11	Total Penta-Furans	30.74	5.511e4	3.603e4	2.788e3	1.980e3	1.41	NO	4.768e3	0.63046	0.63046	0.198
12	2,3,4,7,8-PeCDF	30.85	4.203e6	2.716e6	2.368e5	1.545e5	1.53	NO	3.913e5	49.841	49.841	0.193
13	Total Penta-Furans	30.88	2.551e6	1.603e6	5.936e4	3.705e4	1.60	NO	9.641e4	12.748	12.748	0.198
14	Total Penta-Furans	31.78	2.409e5	1.578e5	1.441e4	9.128e3	1.58	NO	2.354e4	3.1126	3.1126	0.198

Vista Analytical Laboratory

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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	32.49	5.130e5	4.039e5	2.677e4	2.205e4	1.21	NO	4.882e4	7.8842	7.8842	0.323
2	Total Hexa-Furans	32.66	1.698e6	1.368e6	9.199e4	7.513e4	1.22	NO	1.671e5	26.988	26.988	0.323
3	Total Hexa-Furans	33.01	4.076e4	2.909e4	2.339e3	1.826e3	1.28	NO	4.165e3	0.67265	0.67265	0.323
4	Total Hexa-Furans	33.21	2.825e6	2.363e6	1.592e5	1.305e5	1.22	NO	2.897e5	46.792	46.792	0.323
5	Total Hexa-Furans	33.57	7.680e4	6.597e4	3.516e3	3.177e3	1.11	NO	6.693e3	1.0810	1.0810	0.323
6	1,2,3,4,7,8-HxCDF	33.67	5.839e6	4.858e6	3.581e5	2.971e5	1.21	NO	6.552e5	115.91	115.91	0.315
7	1,2,3,6,7,8-HxCDF	33.79	1.759e6	1.436e6	1.143e5	9.281e4	1.23	NO	2.071e5	32.485	32.485	0.304
8	Total Hexa-Furans	33.87	1.141e5	9.460e4	6.181e3	5.324e3	1.16	NO	1.151e4	1.8581	1.8581	0.323
9	Total Hexa-Furans	34.06	7.561e4	6.431e4	5.393e3	4.308e3	1.25	NO	9.702e3	1.5668	1.5668	0.323
10	2,3,4,6,7,8-HxCDF	34.37	5.331e5	4.245e5	3.373e4	2.792e4	1.21	NO	6.165e4	9.4160	9.4160	0.296
11	1,2,3,7,8,9-HxCDF	35.30	7.103e5	5.828e5	3.769e4	3.167e4	1.19	NO	6.936e4	13.298	13.298	0.449
12	Total Hexa-Furans	35.31	6.416e5	5.145e5	1.635e4	1.269e4	1.29	NO	2.903e4	4.6886	4.6886	0.323

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	37.00	1.985e6	1.972e6	1.581e5	1.559e5	1.01	NO	3.140e5	64.949	64.949	0.343
2	Total Hepta-Furans	37.40	2.827e4	3.466e4	2.370e3	2.665e3	0.89	NO	5.035e3	1.2061	1.2061	0.373
3	Total Hepta-Furans	37.59	3.213e6	3.229e6	2.823e5	2.799e5	1.01	NO	5.622e5	134.68	134.68	0.373
4	1,2,3,4,7,8,9-HpCDF	39.00	4.857e5	5.054e5	3.559e4	3.567e4	1.00	NO	7.125e4	17.464	17.464	0.356

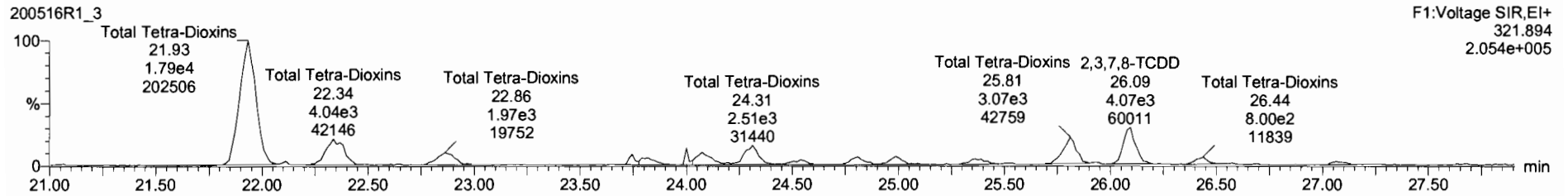
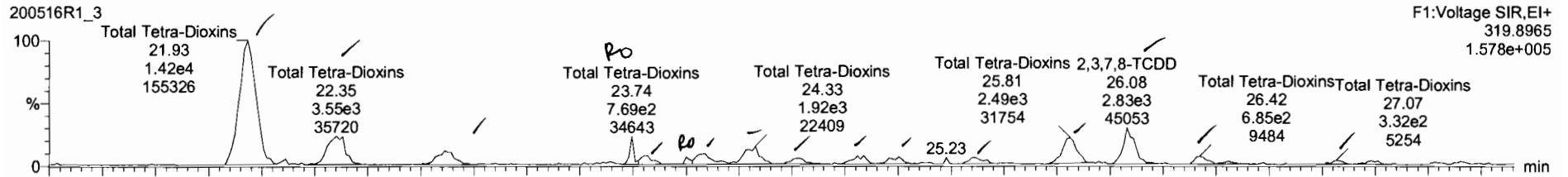
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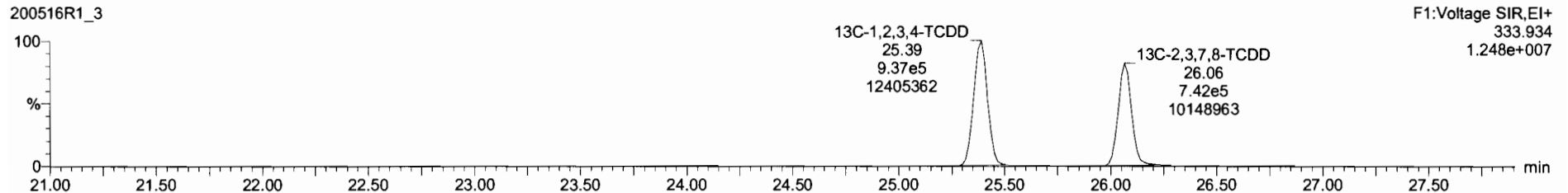
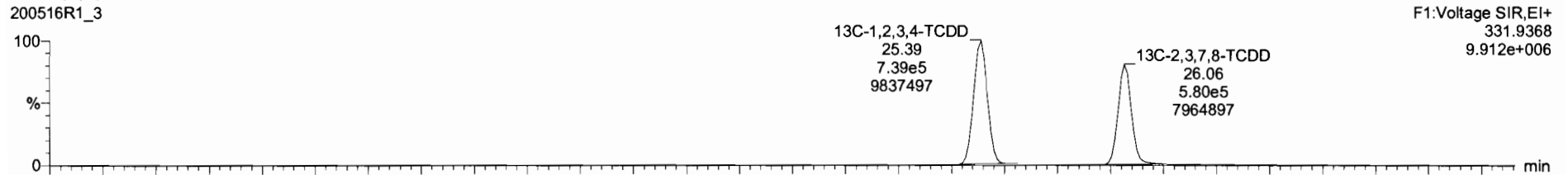
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2,3,7,8-TCDD

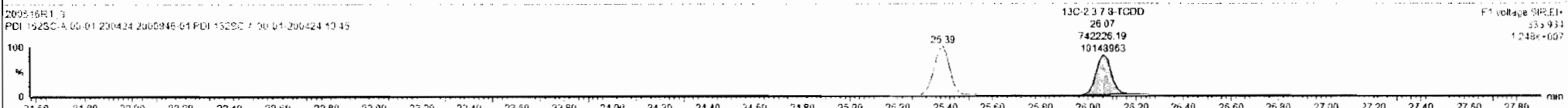
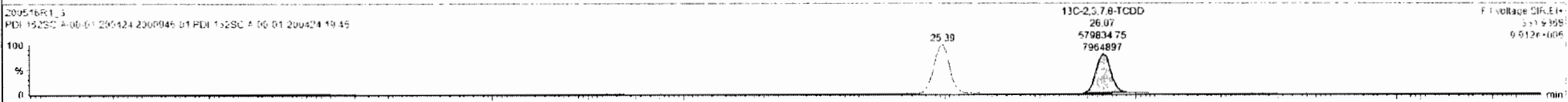
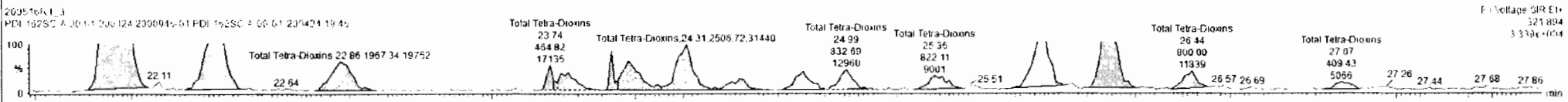
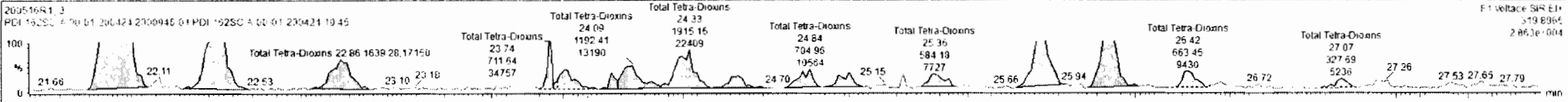


13C-2,3,7,8-TCDD



Name	Resp	RA	n1	n2	RT	RT	RT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins					0.9475	10.114		11.5		0.202	11.7
40 Total Penta-Dioxins					0.9425	10.114		12.7		0.062	12.7

Name	RT	m1 Resp	m2 Resp	RA	n1	EMPC	Conc
1 Total Tetra-Dioxins	21.92	1.418e4	1.789e4	0.75	NO	5.062E	5.962E
2 Total Tetra-Dioxins	22.35	3.548e3	4.041e3	0.68	NO	1.1980	1.1990
3 Total Tetra-Dioxins	22.86	1.825e2	1.967e3	0.83	NO	0.56927	0.56937
4 Total Tetra-Dioxins	23.74	7.116e2	4.548e2	1.53	YES	0.12968	0.00000
5 Total Tetra-Dioxins	23.80	8.503e2	1.019e3	0.64	NO	0.29762	0.29363
6 Total Tetra-Dioxins	24.00	2.811e2	5.437e2	0.52	YES	0.16203	0.00000
7 Total Tetra-Dioxins	24.09	1.152e3	1.709e3	0.70	NO	0.45811	0.45811
8 Total Tetra-Dioxins	24.33	1.915e3	2.507e3	0.76	NO	0.69807	0.69807
9 Total Tetra-Dioxins	24.54	5.892e2	5.762e2	0.84	NO	0.19661	0.19661
10 Total Tetra-Dioxins	24.84	7.050e2	9.751e2	0.72	NO	0.26522	0.26522
11 Total Tetra-Dioxins	25.00	5.581e2	8.327e2	0.67	NO	0.21556	0.21956
12 Total Tetra-Dioxins	25.36	5.942e2	8.221e2	0.71	NO	0.22201	0.22201
13 Total Tetra-Dioxins	25.81	2.485e3	3.069e3	0.81	NO	0.87680	0.87680
14 2,3,7,8-TCDD	26.08	2.826e3	4.073e3	0.65	NO	1.0890	1.0890
15 Total Tetra-Dioxins	26.42	6.825e2	8.000e2	0.82	NO	0.23103	0.23103
16 Total Tetra-Dioxins	27.07	3.277e2	4.094e2	0.80	NO	0.11637	0.11637



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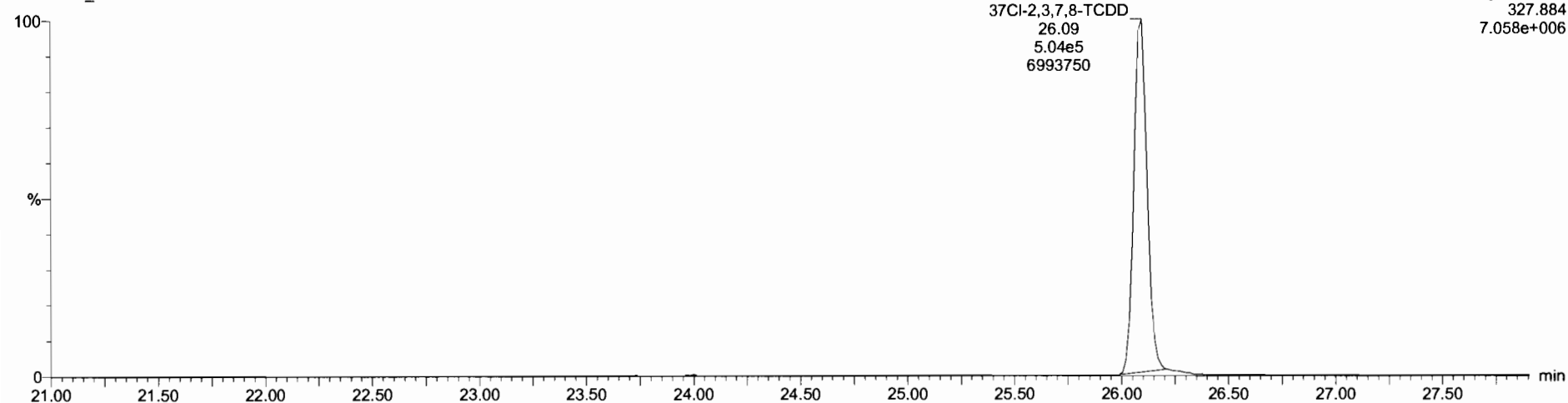
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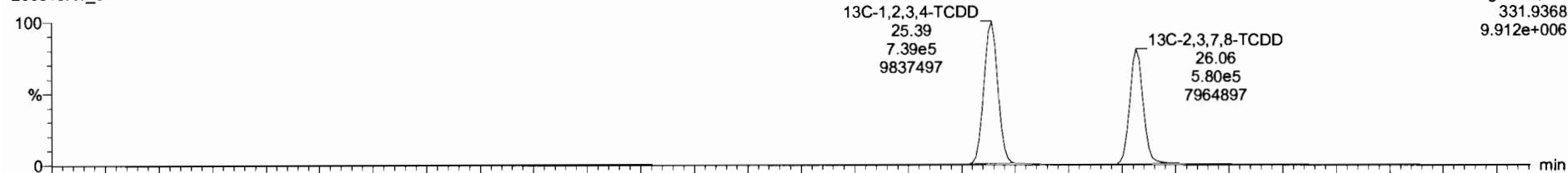
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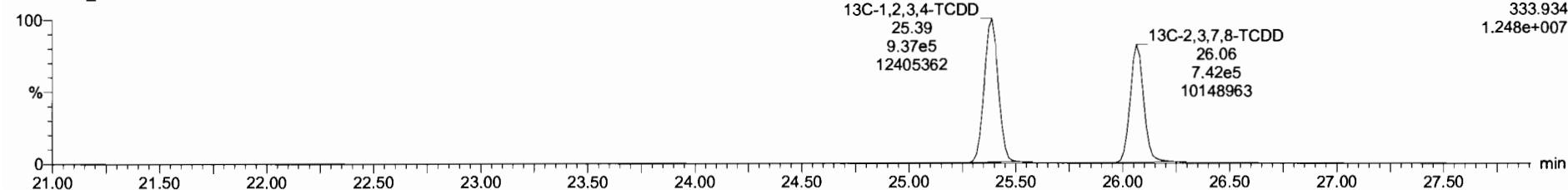


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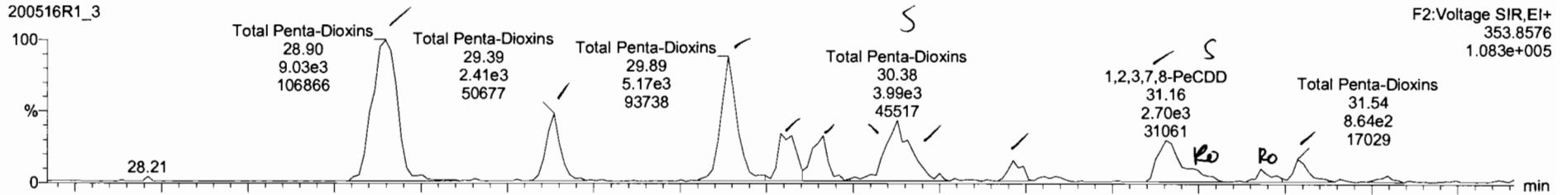
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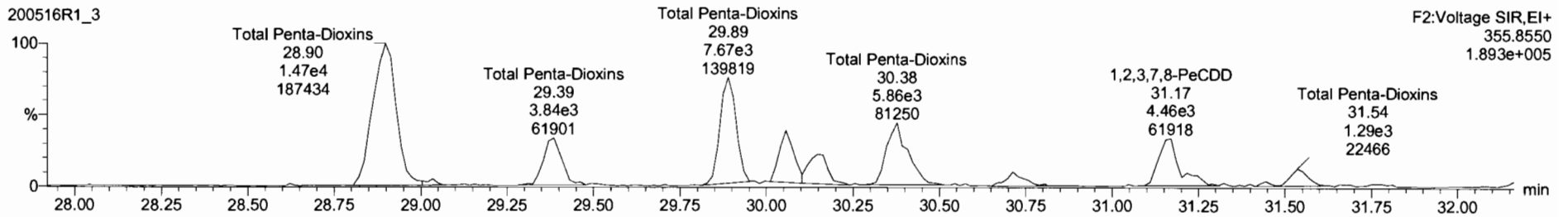
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1,2,3,7,8-PeCDD

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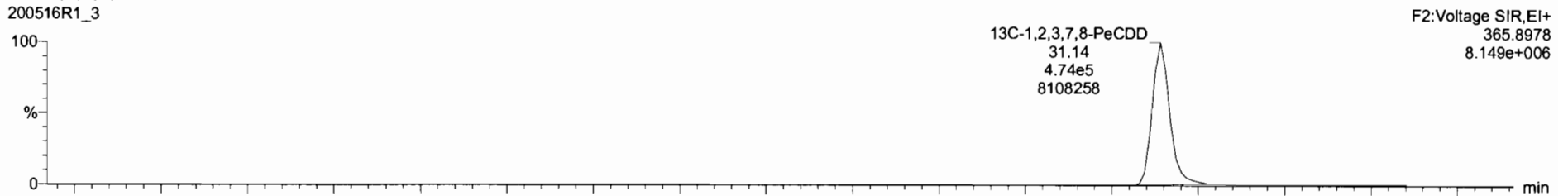


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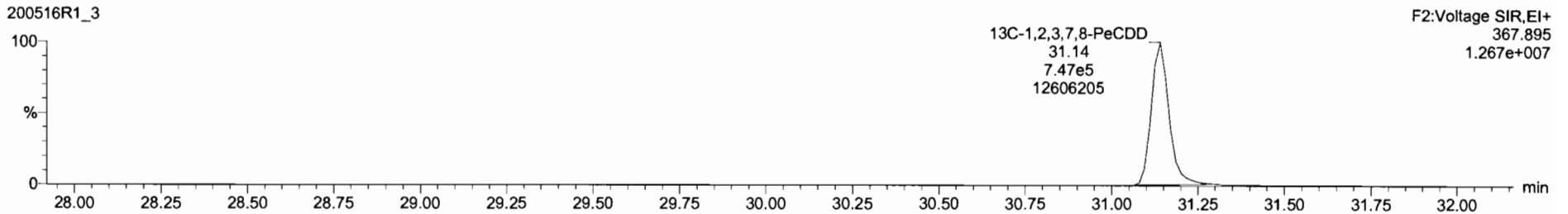


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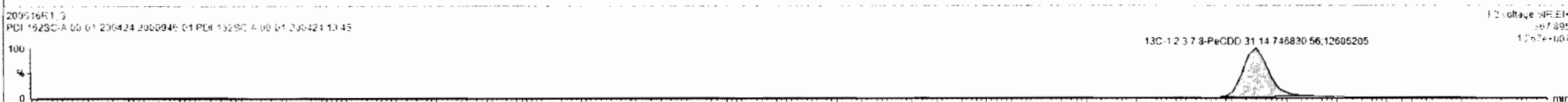
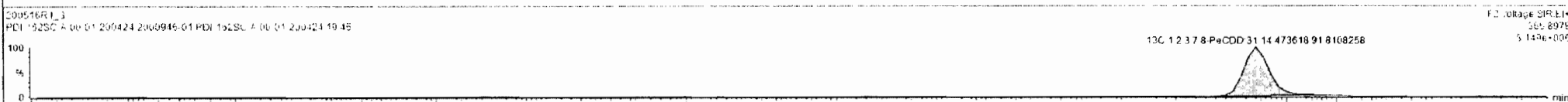
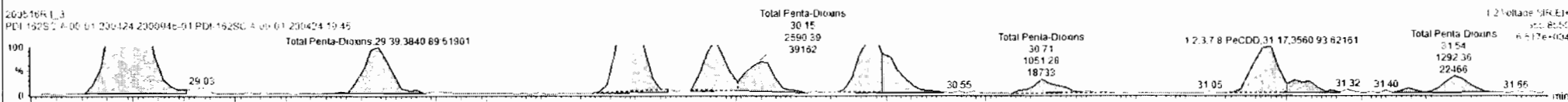
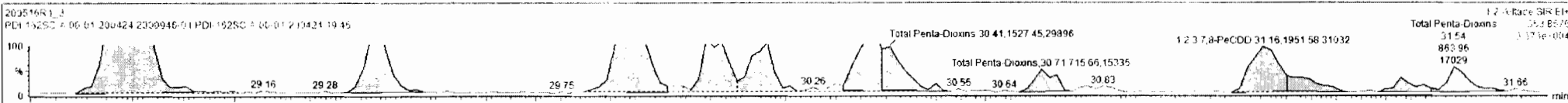


200516R1_3



Name	Resp	RA	n1	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.114			11.5		0.202	11.7
40 Total Penta-Dioxins				0.9425	16.114			10.7		0.992	12.7

Name	RT	n1 Resp	n2 Resp	RA	n1	EMPC	Conc
1 Total Penta-Dioxins	28.90	8.87e3	1.46e4	0.61	ND	4.0465	4.0465
2 Total Penta-Dioxins	29.39	2.40e3	3.041e3	0.63	ND	1.0740	1.0740
3 Total Penta-Dioxins	29.39	5.045e3	7.989e3	0.63	ND	2.2414	2.2414
4 Total Penta-Dioxins	30.04	2.047e3	3.432e3	0.60	NO	0.54190	0.94190
5 Total Penta-Dioxins	30.16	1.847e3	2.590e3	0.71	NO	0.76265	0.76265
6 Total Penta-Dioxins	30.28	2.154e3	3.776e3	0.57	NO	1.0196	0.00000
7 Total Penta-Dioxins	30.41	1.527e3	2.156e3	0.71	NO	0.62317	0.00000
8 Total Penta-Dioxins	30.71	7.157e2	1.051e3	0.68	NO	0.30277	0.30277
9 1,2,3,7,8-PeCDD	31.16	1.952e3	3.561e3	0.55	NO	0.94770	0.64770
10 Total Penta-Dioxins	31.20	7.164e2	9.682e2	0.74	YES	0.27122	0.00000
11 Total Penta-Dioxins	31.43	4.772e2	2.099e2	2.27	YES	0.05831	0.00000
12 Total Penta-Dioxins	31.54	8.640e2	1.292e3	0.67	NO	0.37071	0.37071



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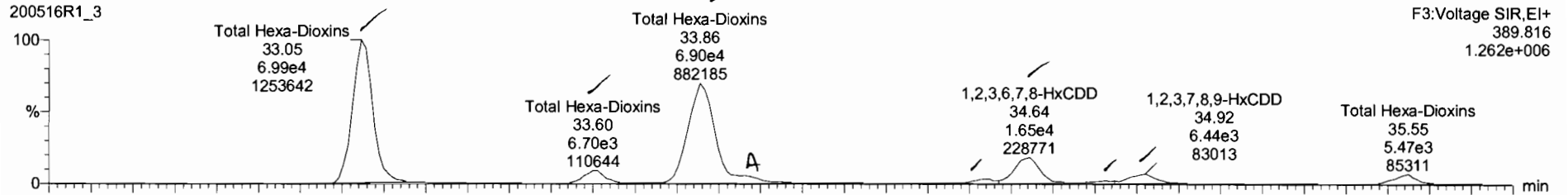
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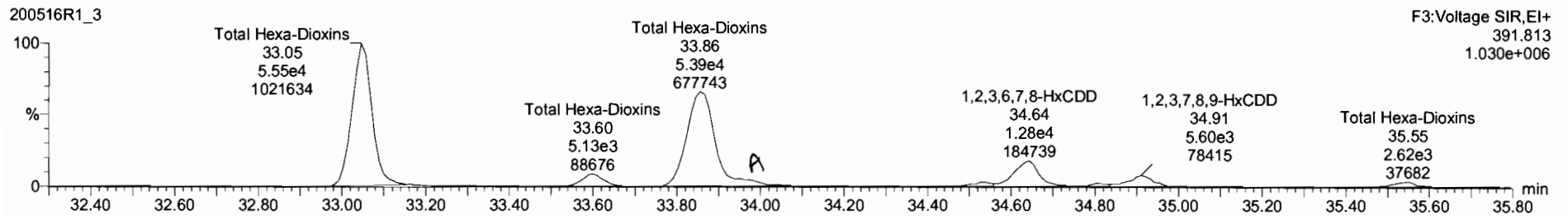
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1,2,3,4,7,8-HxCDD

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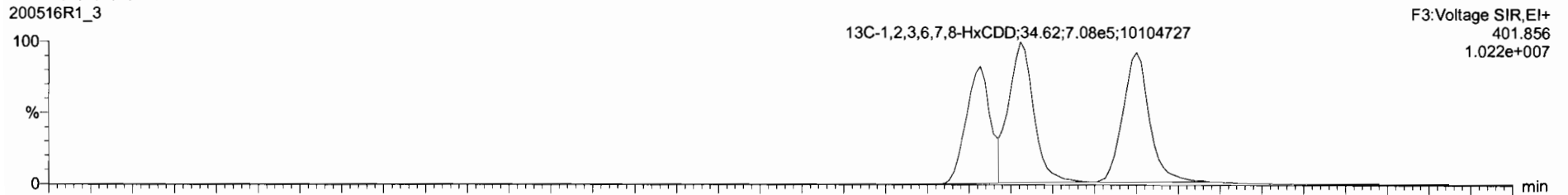


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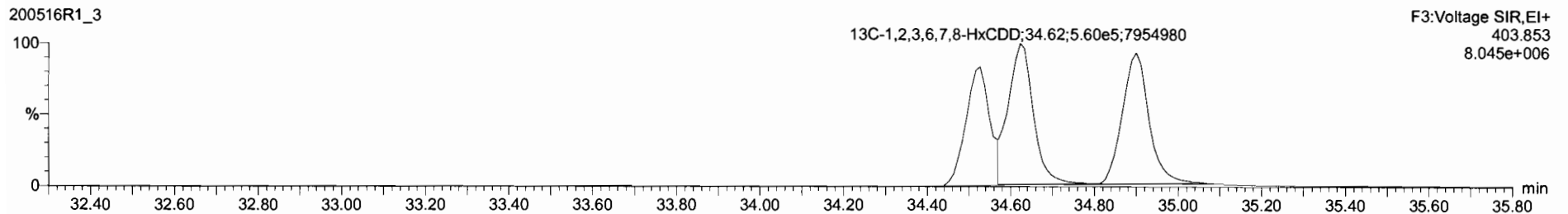


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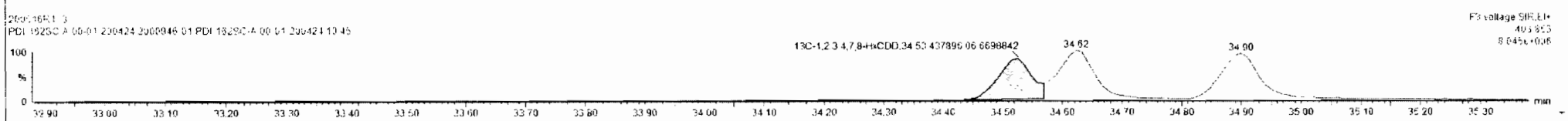
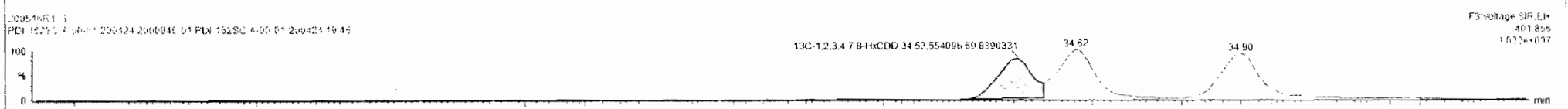
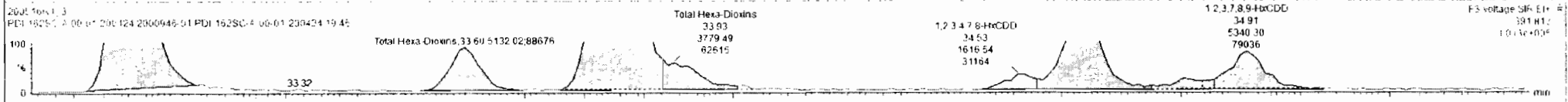
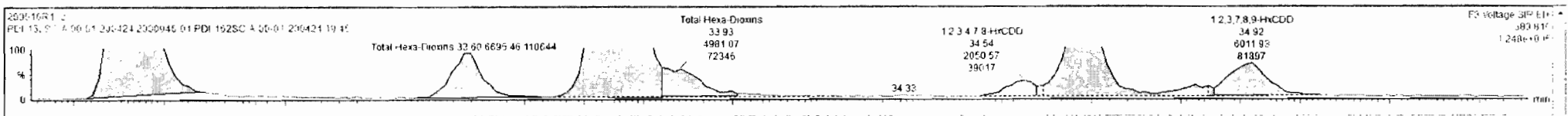


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Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.114			11.5		0.202	11.7
46 Total Penta-Dioxins				0.9425	10.114			10.7		0.0962	12.7

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.05	6.951e4	5.554e4	1.26	NO	23.325	23.325
2 Total Hexa-Dioxins	33.60	6.695e3	5.132e3	1.30	NO	2.1951	2.1951
3 Total Hexa-Dioxins	33.36	6.310e4	5.001e4	1.26	NO	21.031	21.031
4 Total Hexa-Dioxins	33.93	4.981e3	3.779e3	1.22	NO	1.6259	1.5259
5 1,2,3,4,7,8-HxCDD	34.54	2.051e3	1.617e3	1.27	NO	0.68698	0.68698
6 1,2,3,6,7,8-HxCDD	34.64	1.573e4	1.279e4	1.21	NO	5.0327	5.0327
7 Total Hexa-Dioxins	34.82	1.817e3	1.591e3	1.14	NO	0.65576	0.63370
8 1,2,3,7,8,9-HxCDD	34.92	6.012e3	5.340e3	1.12	NO	1.9371	1.9371



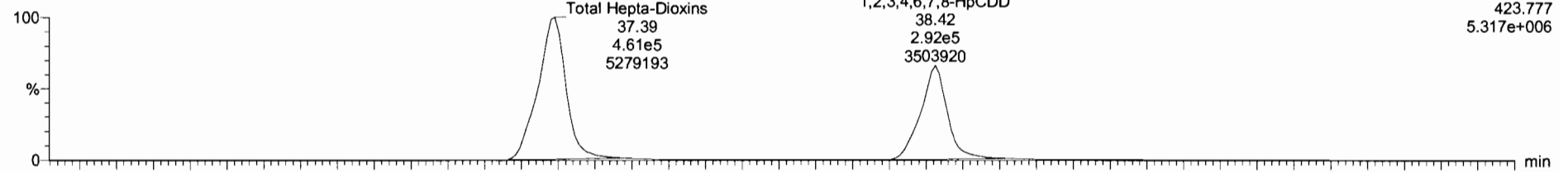
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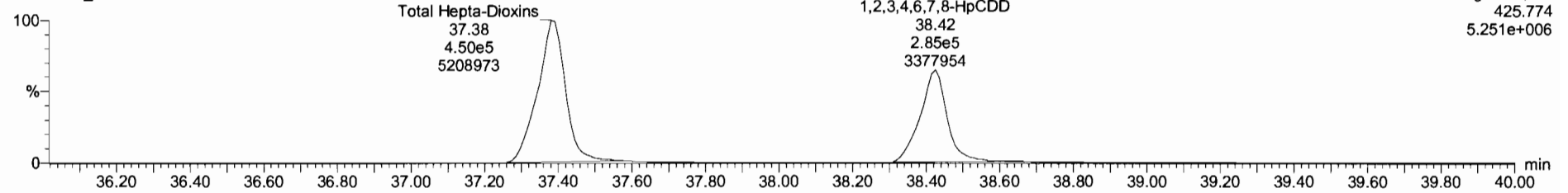
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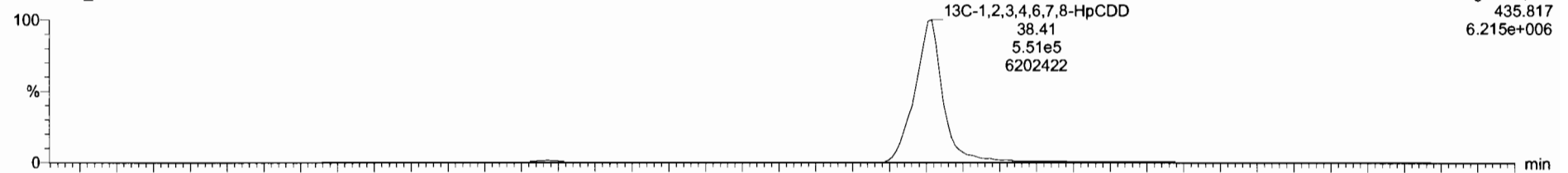
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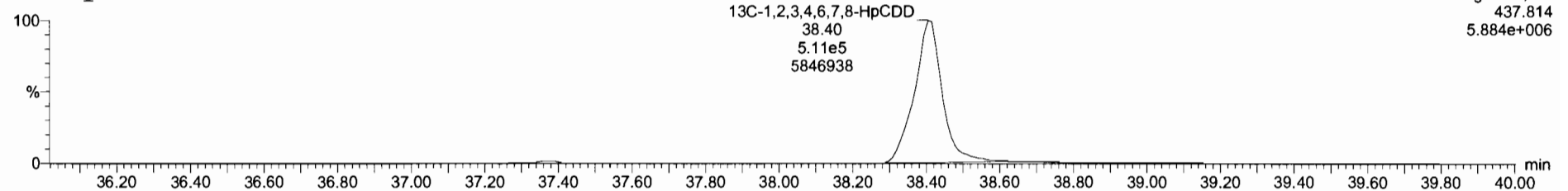
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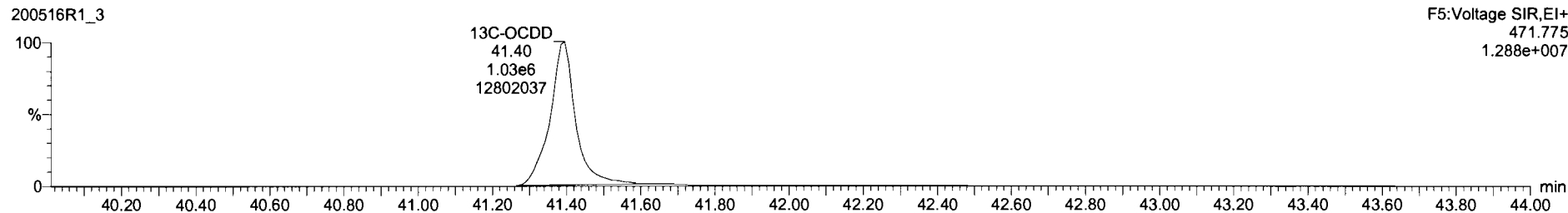
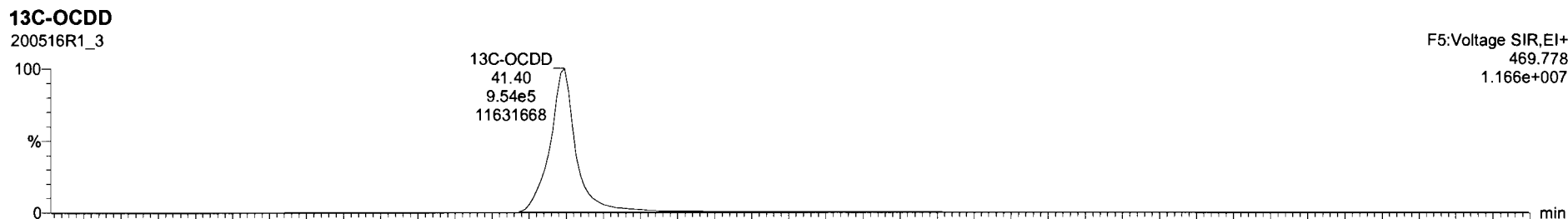
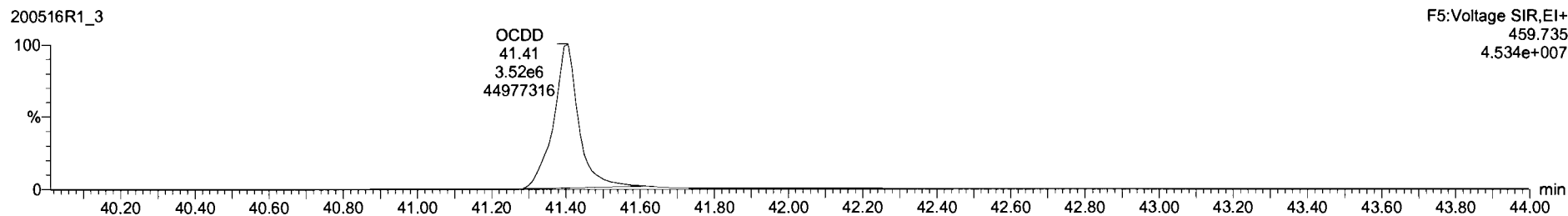
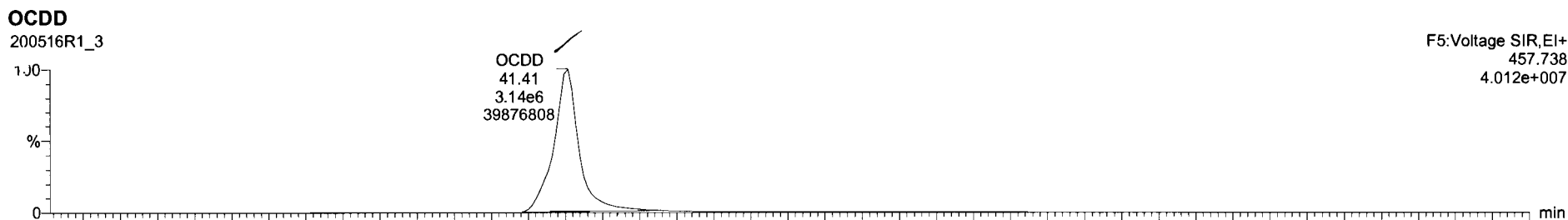


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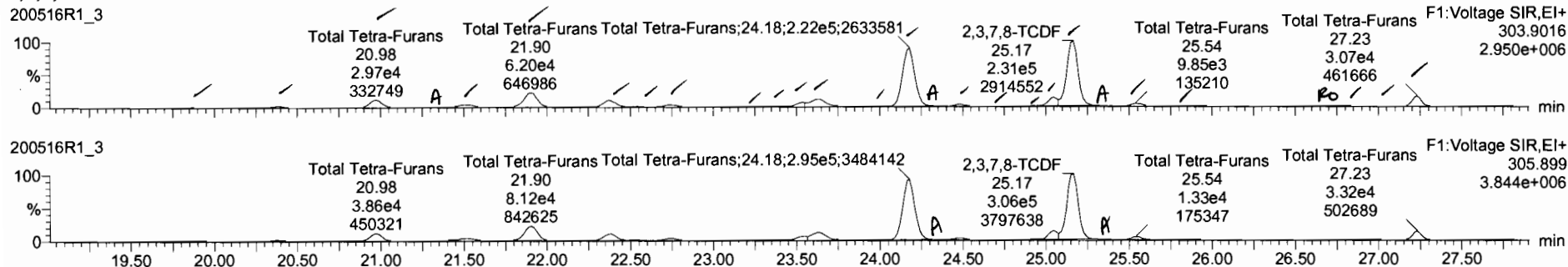


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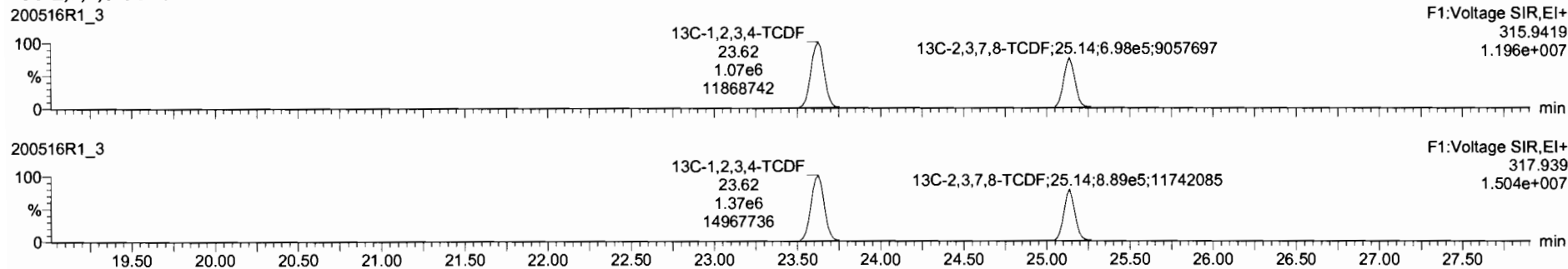
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Name: 200516R1_3, Date: 16-May-2020, Time: 10:44:33, ID: 2000946-01 PDI-162SC-A-00-01-200424 19.45, Description: PDI-162SC-A-00-01-200424

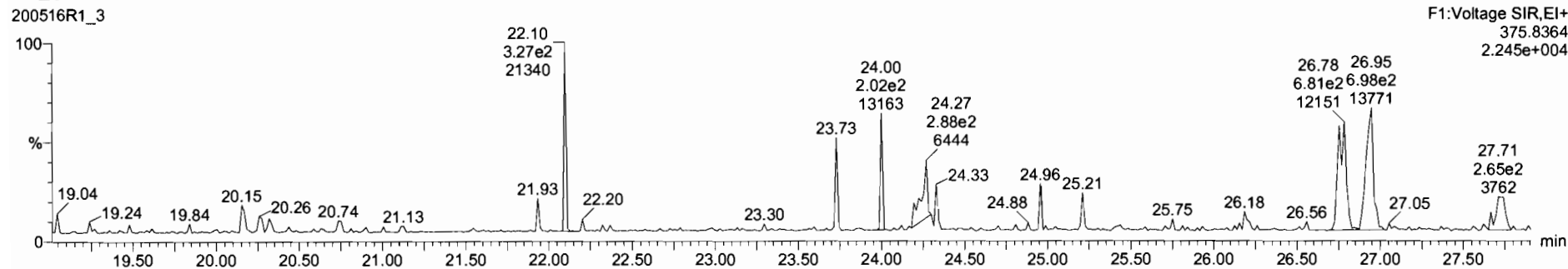
2,3,7,8-TCDF

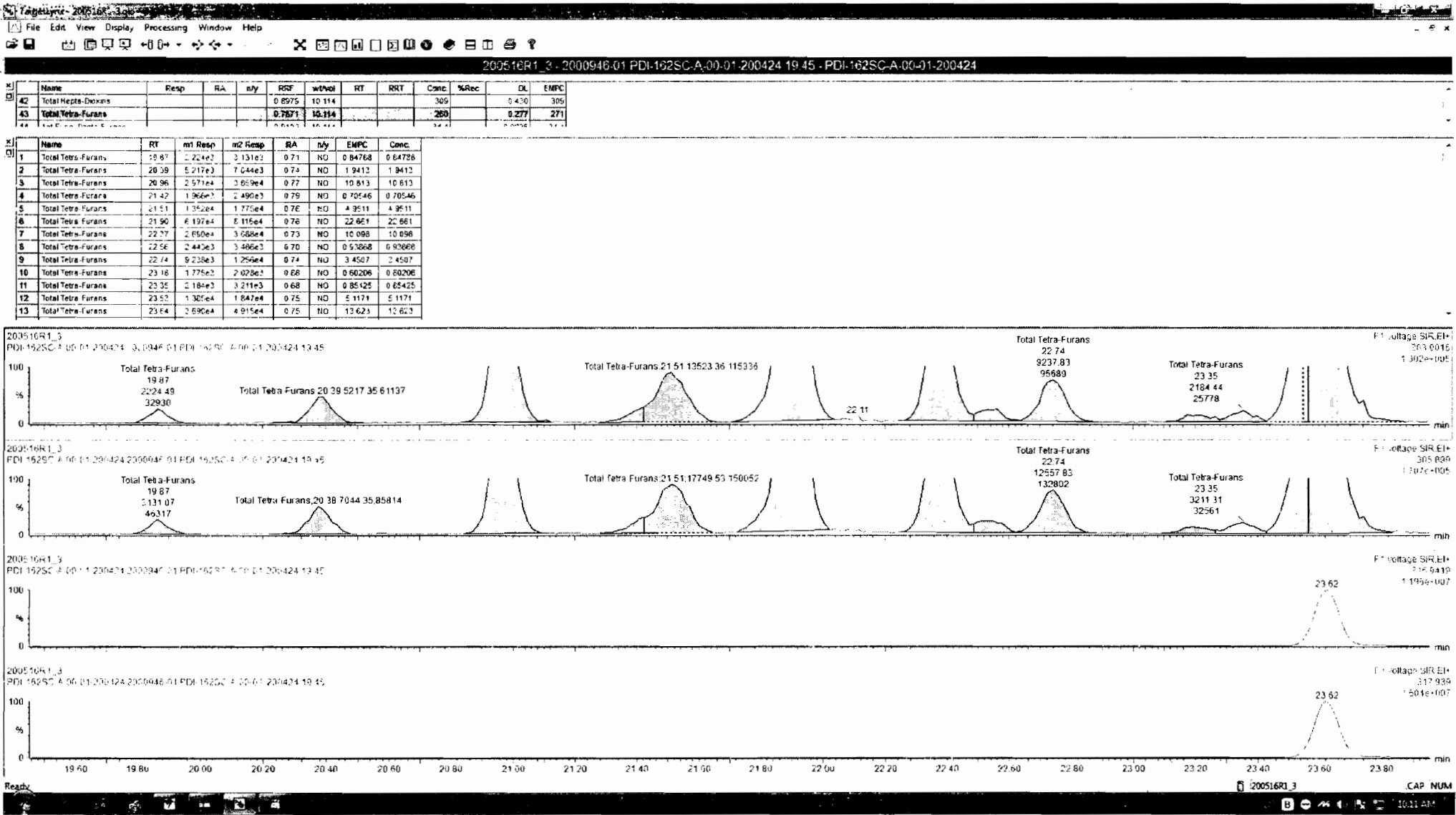


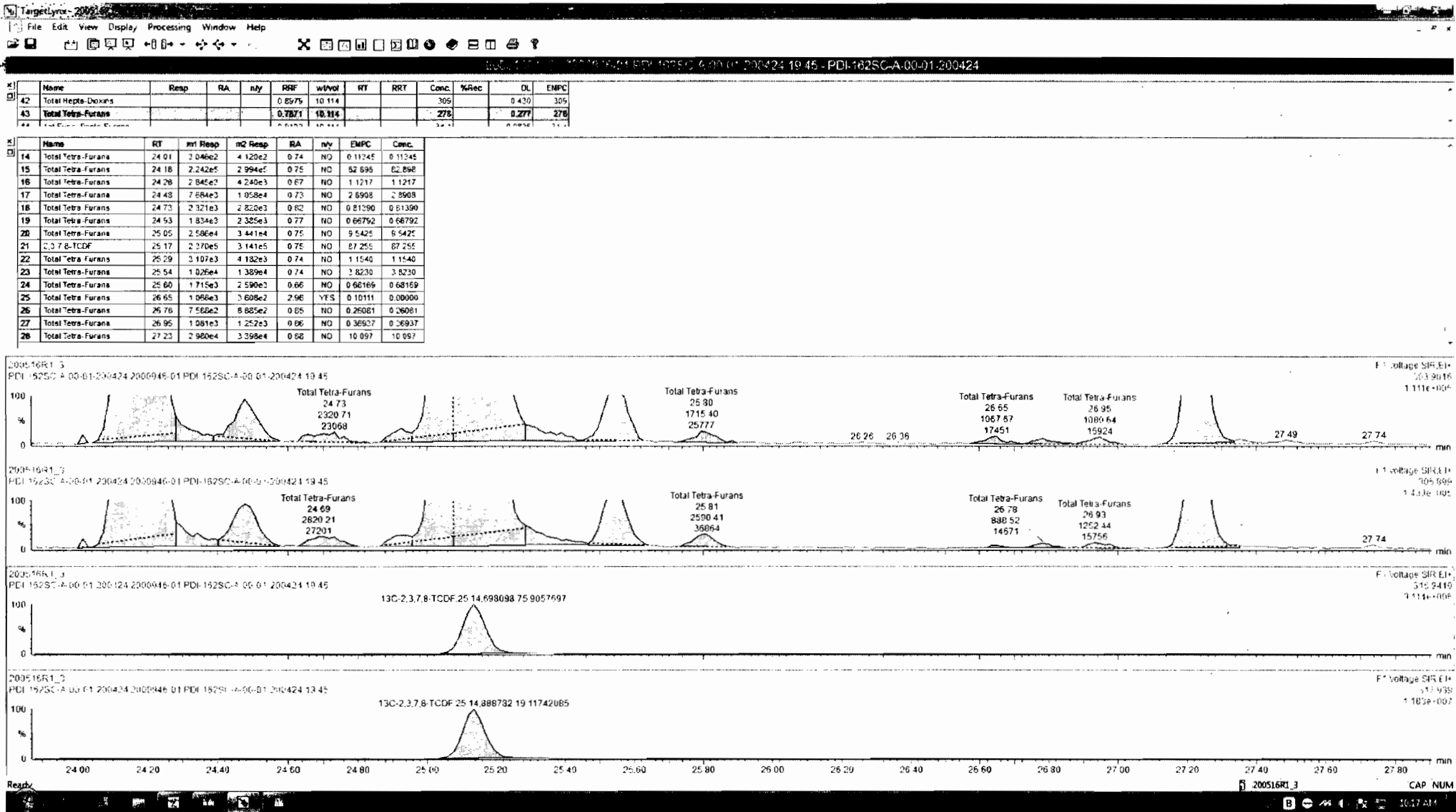
13C-2,3,7,8-TCDF



DPE1







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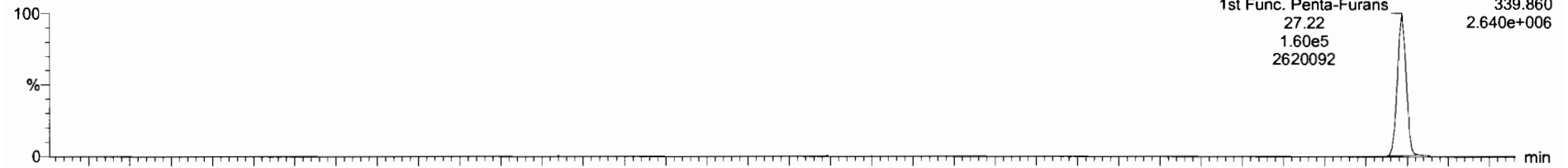
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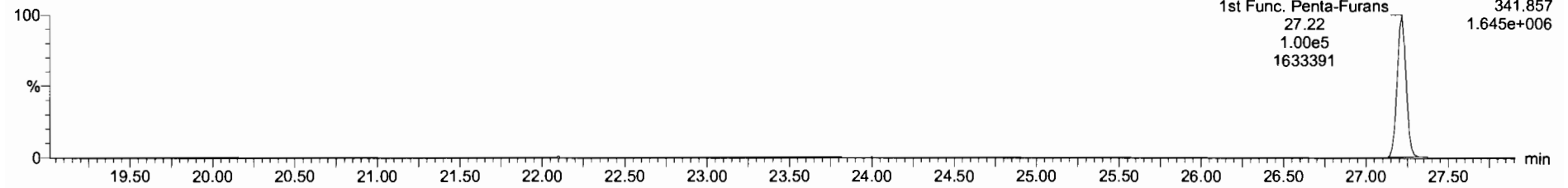
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1st Func. Penta-Furans

200516R1_3

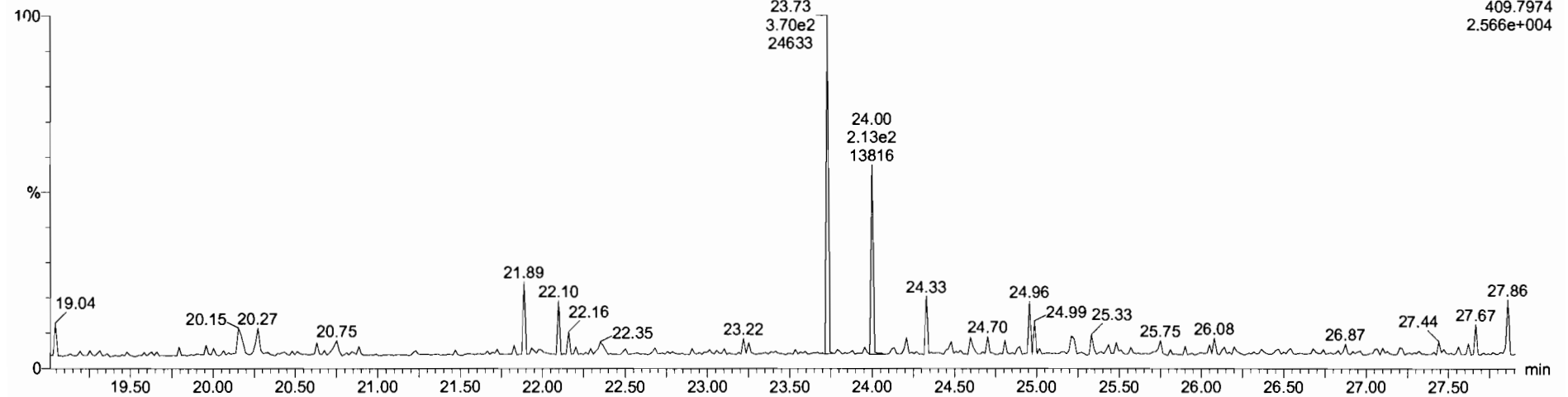


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DPE6

200516R1_3



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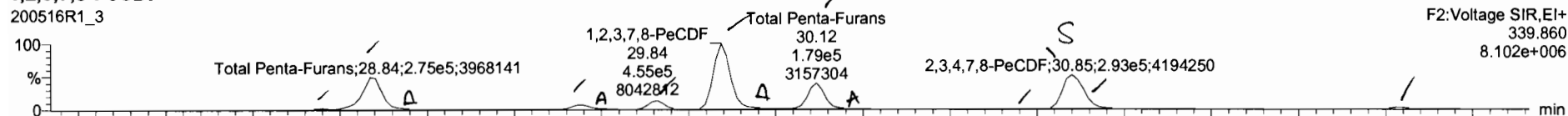
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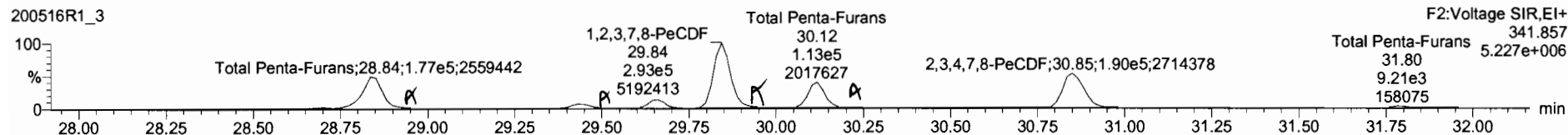
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1,2,3,7,8-PeCDF

200516R1_3

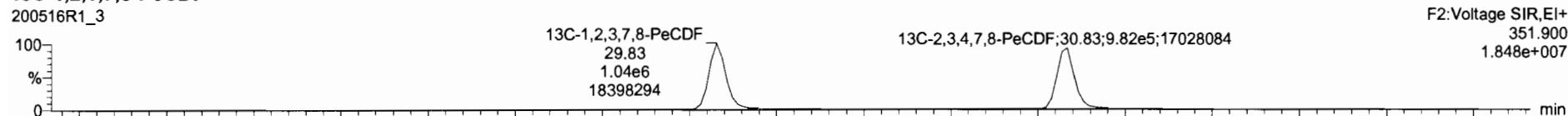


200516R1_3

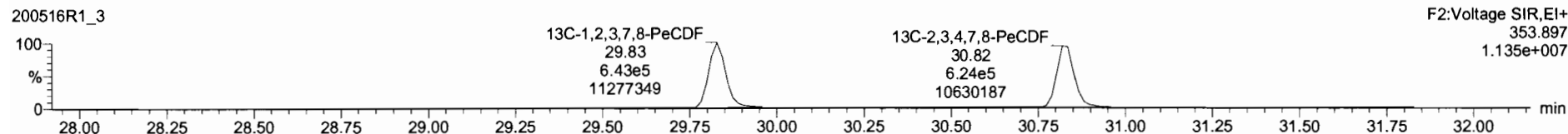


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200516R1_3

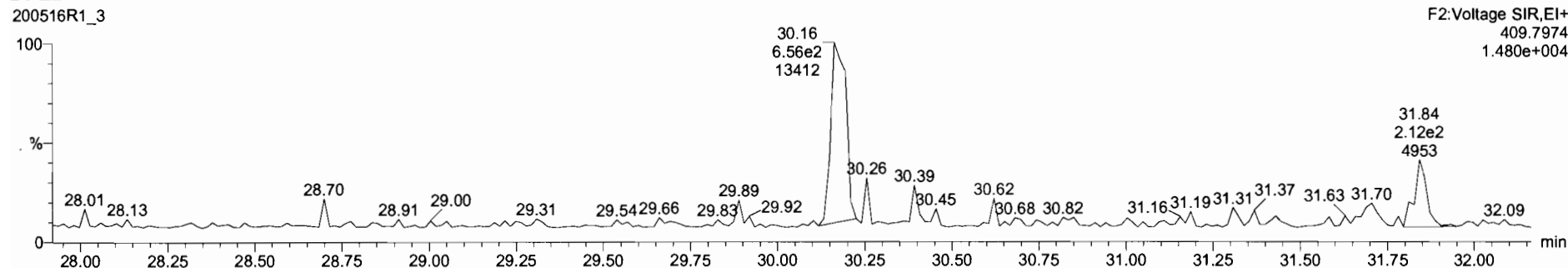


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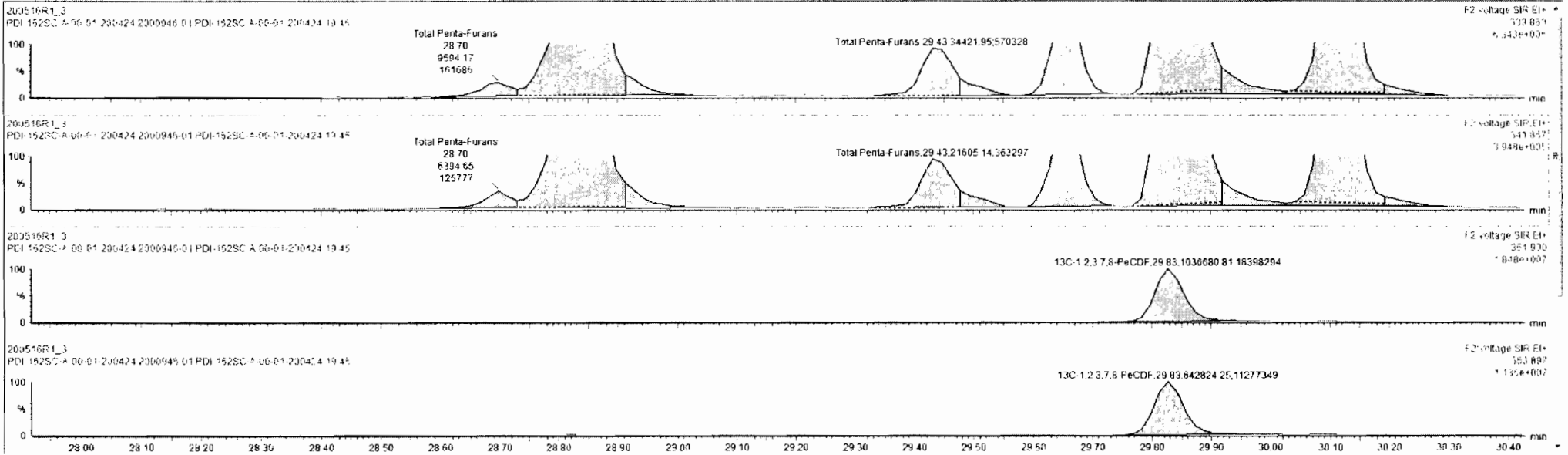
DPE2

200516R1_3



Name	Resp	RA	aly	RPF	Vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9162	10.114			279		0.190	290
46 Total Hexa-Furans				0.9217	10.114			263		0.323	264

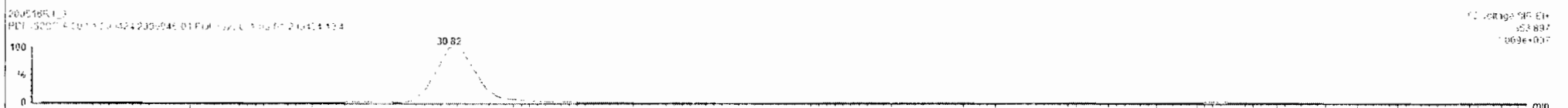
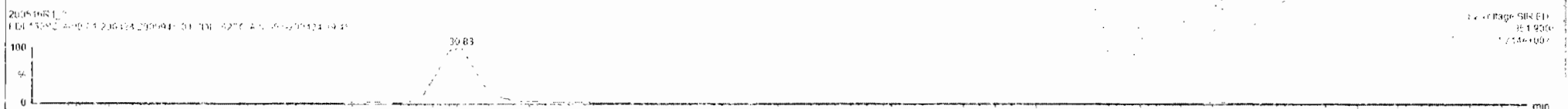
Name	RT	m1 Resp	m2 Resp	RA	aly	EMPC	Conc.
1 Total Penta-Furans	28.70	9.594e3	6.395e3	1.50	NO	2.1142	2.1142
2 Total Penta-Furans	28.84	2.677e5	1.726e5	1.55	NO	50.222	50.222
3 Total Penta-Furans	28.91	8.549e3	6.455e3	1.32	NO	1.9839	1.9839
4 Total Penta-Furans	29.43	3.442e4	2.161e4	1.59	NO	7.4083	0.00000
5 Total Penta-Furans	29.46	7.760e3	4.845e3	1.60	NO	1.6668	0.00000
6 Total Penta-Furans	29.56	5.761e4	3.736e4	1.54	NO	12.558	12.558
7 1,2,3,7,8-PeCDF	29.84	4.527e5	2.910e5	1.56	NO	96.212	96.212
8 Total Penta-Furans	29.92	1.229e4	7.834e3	1.61	NO	2.6347	2.6347
9 Total Penta-Furans	30.12	1.802e5	1.154e5	1.56	NO	39.098	39.098
10 Total Penta-Furans	30.19	4.139e3	2.583e3	1.60	NO	0.86865	0.68885
11 Total Penta-Furans	30.62	8.477e2	6.657e2	1.27	YES	0.19441	0.00000
12 Total Penta-Furans	30.74	2.768e3	1.980e3	1.41	NO	0.63046	0.63046
13 2,3,4,7,8-PeCDF	30.85	2.932e5	1.904e5	1.54	NO	61.591	61.591
14 Total Penta-Furans	31.12	3.043e2	5.135e2	0.59	YES	0.066189	0.00000
15 Total Penta-Furans	31.78	1.441e4	9.209e3	1.56	NO	3.1224	3.1234
16 Total Penta-Furans	31.88	6.812e3	3.045e3	1.57	NO	1.0268	0.00000



Custom Reporting: Select reports to generate

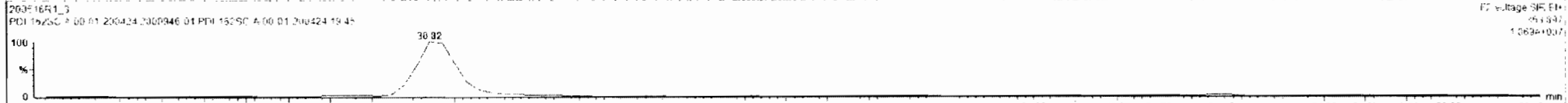
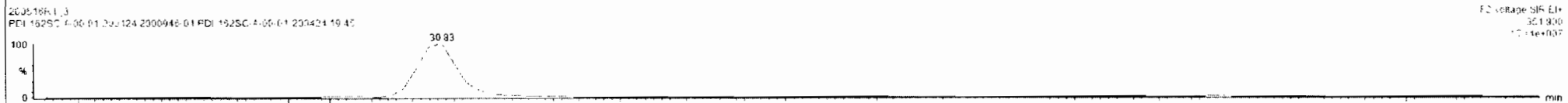
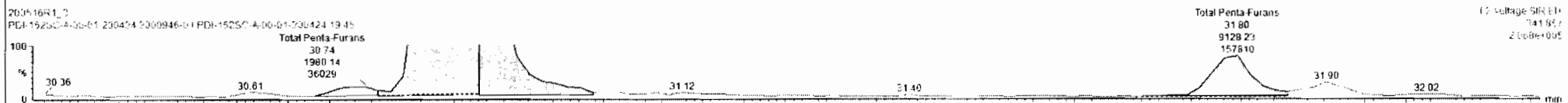
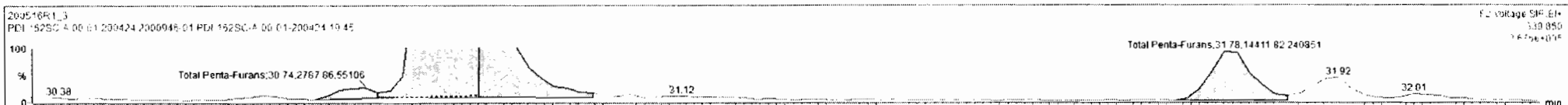
Name	Resp	RA	nV	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.114			280		0.196	285
46 Total Hexa-Furans				0.9217	10.114			262		0.223	267

Name	RT	m1 Resp	m2 Resp	RA	nV	EMPC	Conc
1 Total Penta-Furans	28.70	6.554e3	6.795e3	1.50	ND	2.1142	2.1142
2 Total Penta-Furans	28.84	2.877e5	1.729e5	1.55	ND	18.222	58.222
3 Total Penta-Furans	29.43	3.442e4	2.251e4	1.59	ND	7.4883	0.0000
4 Total Penta-Furans	29.86	1.761e4	3.726e3	1.54	ND	12.528	12.528
5 1,2,3,7,8-PeCDF	29.84	4.527e5	2.910e5	1.58	ND	96.212	96.212
6 Total Penta-Furans	30.12	1.802e5	1.154e5	1.58	ND	39.098	25.056
7 Total Penta-Furans	30.74	2.786e3	1.580e3	1.41	ND	0.63046	0.63046
8 2,3,4,7,8-PeCDF	30.55	2.346e5	1.545e5	1.52	ND	45.841	49.841
9 Total Penta-Furans	31.78	1.441e4	9.128e3	1.56	ND	2.1126	2.1126
10 Total Penta-Furans	29.91	6.545e2	8.455e3	1.22	ND	1.9839	1.9839
11 Total Penta-Furans	29.48	7.760e3	4.945e3	1.60	ND	1.6688	0.0000
12 Total Penta-Furans	29.52	1.225e4	7.834e3	1.61	ND	2.4347	2.6347
13 Total Penta-Furans	30.15	4.125e2	2.523e3	1.60	ND	0.88685	0.88685
14 Total Penta-Furans	30.68	5.336e4	3.705e4	1.60	ND	12.748	12.748



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.8702	10.114			291		0.198	291
46 Total Hexa-Furans				0.9217	10.114			263		0.323	263

Name	RT	rt Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Furans	28.70	9.594e3	6.395e3	1.50	NO	2.1142	2.1142
2 Total Penta-Furans	28.84	2.677e5	1.726e5	1.55	NO	50.222	50.222
3 Total Penta-Furans	28.91	6.549e3	6.455e3	1.02	NO	1.9839	1.9839
4 Total Penta-Furans	29.43	3.442e4	2.161e4	1.59	NO	7.4083	0.00000
5 Total Penta-Furans	29.48	7.760e3	4.845e3	1.60	NO	1.6668	0.00009
6 Total Penta-Furans	29.66	5.781e4	3.736e4	1.54	NO	12.558	12.558
7 1,2,3,7,8-PeCDF	29.84	4.527e5	2.910e5	1.56	NO	96.212	96.212
8 Total Penta-Furans	29.92	1.229e4	7.634e3	1.61	NO	2.6347	2.6347
9 Total Penta-Furans	30.12	1.803e5	1.154e5	1.58	NO	39.096	39.096
10 Total Penta-Furans	30.19	4.139e3	2.583e3	1.60	NO	0.88885	0.88885
11 Total Penta-Furans	30.74	2.786e3	1.980e3	1.41	NO	0.63046	0.63046
12 Total Penta-Furans	30.85	2.368e5	1.545e5	1.55	NO	51.742	51.742
13 2,3,4,7,8-PeCDF	30.88	5.936e4	3.705e4	1.60	NO	12.280	12.280
14 Total Penta-Furans	31.78	1.441e4	9.128e3	1.58	NO	3.1126	3.1126



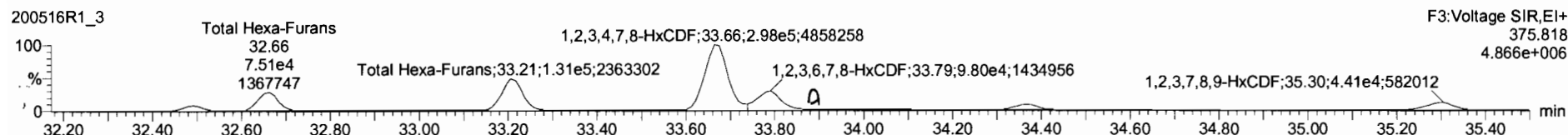
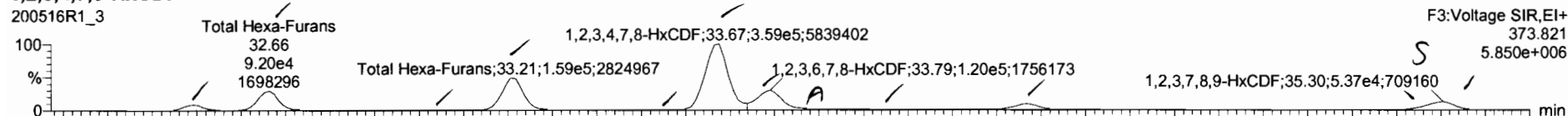
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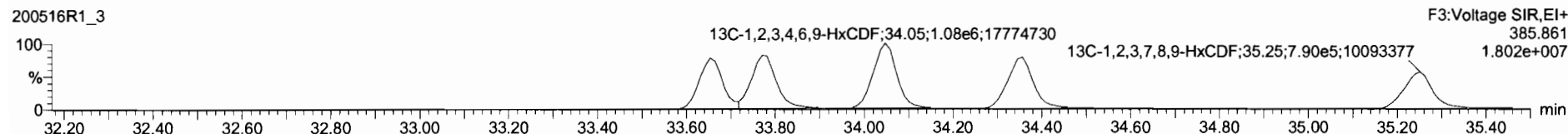
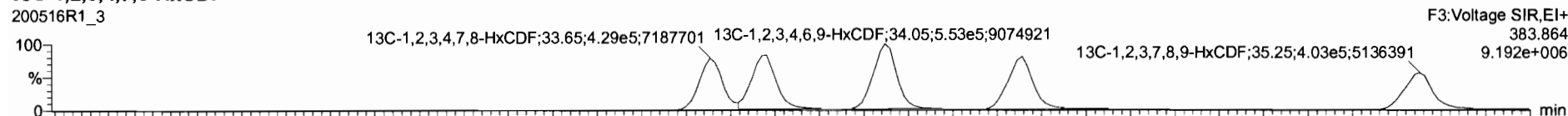
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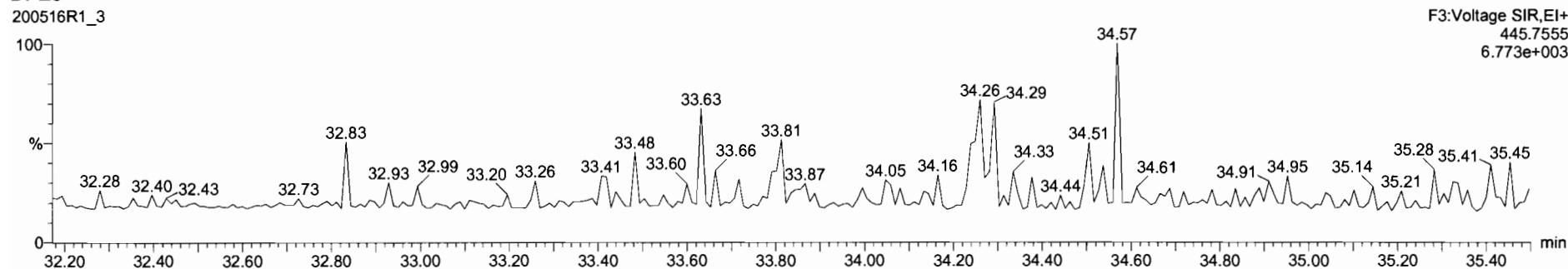
1,2,3,4,7,8-HxCDF



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

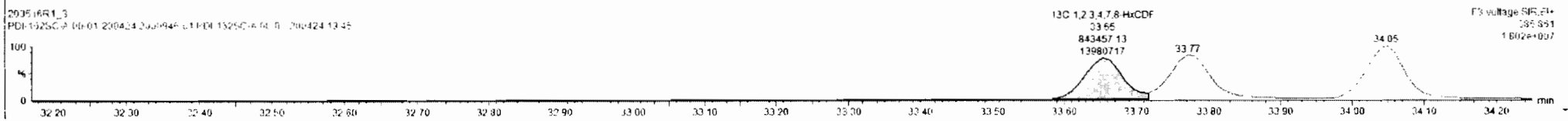
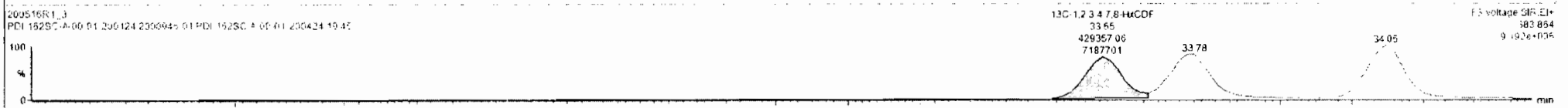
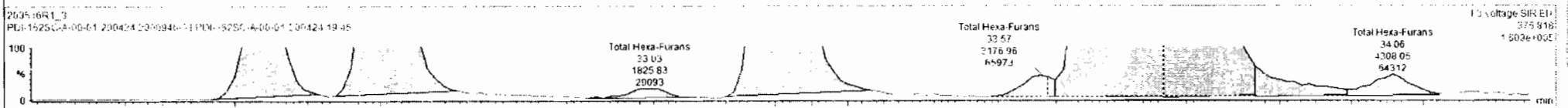
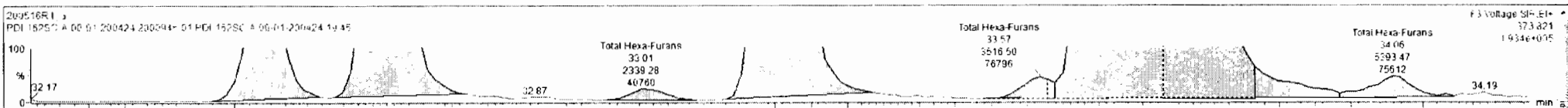


DPE3



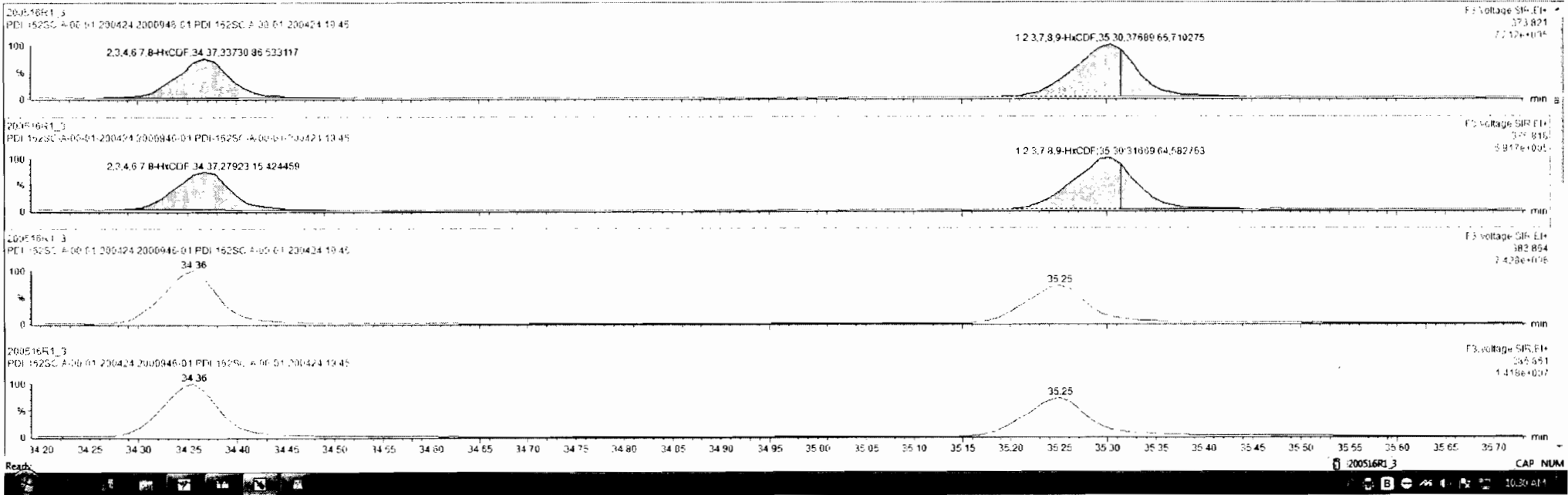
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.114			761		0.198	291
46 Total Hexa-Furans				0.8217	18.814			264		0.323	264

Name	RT	net Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.49	2.777e4	2.205e4	1.21	ND	7.0842	7.0842
2 Total Hexa-Furans	32.66	9.195e4	7.513e4	1.22	ND	25.988	26.992
3 Total Hexa-Furans	33.01	2.335e3	1.826e3	1.28	NG	0.67265	0.67265
4 Total Hexa-Furans	33.21	1.552e5	1.305e5	1.22	NG	46.792	46.792
5 Total Hexa-Furans	33.57	3.519e3	3.172e3	1.11	NG	1.0810	1.0810
6 1,2,3,4,7,8-HxCDF	33.67	3.861e5	2.971e5	1.21	NO	115.91	115.91
7 1,2,3,6,7,8-HxCDF	33.79	1.142e5	6.281e4	1.23	NO	32.485	32.485
8 Total Hexa-Furans	33.87	6.181e3	5.324e3	1.18	NG	1.8581	1.8581
9 Total Hexa-Furans	34.06	5.392e3	4.308e3	1.25	NG	1.5665	1.5666
10 2,3,4,6,7,8-HxCDF	34.37	3.372e4	2.792e4	1.21	NG	9.4160	9.4160
11 Total Hexa-Furans	34.61	3.521e2	3.211e2	1.10	NG	0.10873	0.10873
12 1,2,3,7,8,9-HxCDF	35.30	5.370e4	4.413e4	1.22	NO	18.756	18.756



Name	Resp	RA	n/y	RFF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.114			261		0.196	291
46 Total Hexa-Furans				0.8217	10.114			263		0.323	263

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.49	0.677e4	2.205e4	1.21	NO	7.0542	7.2842
2 Total Hexa-Furans	32.66	9.199e4	7.513e4	1.22	NO	26.988	26.982
3 Total Hexa-Furans	33.01	2.339e3	1.826e3	1.20	NO	0.67265	0.67265
4 Total Hexa-Furans	33.21	1.552e5	1.305e5	1.22	NO	46.792	46.732
5 Total Hexa-Furans	33.57	3.516e3	2.177e3	1.11	NO	1.0810	1.0810
6 1,2,3,4,7,8-HxCDF	33.67	3.561e5	2.971e5	1.21	NO	115.91	115.91
7 1,2,3,6,7,8-HxCDF	33.79	1.142e5	9.281e4	1.23	NO	32.485	32.485
8 Total Hexa-Furans	33.87	6.181e3	5.324e3	1.16	NO	1.8581	1.8581
9 Total Hexa-Furans	34.06	5.393e3	4.305e3	1.25	NO	1.5668	1.5668
10 2,3,4,6,7,8-HxCDF	34.37	3.372e4	2.792e4	1.21	NO	5.4160	9.4150
11 1,2,3,7,8,9-HxCDF	35.30	3.769e4	3.167e4	1.19	NO	13.298	13.298
12 Total Hexa-Furans	35.31	1.635e4	1.269e4	1.29	NO	4.8886	4.6886



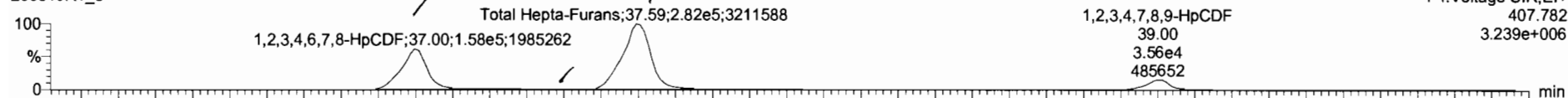
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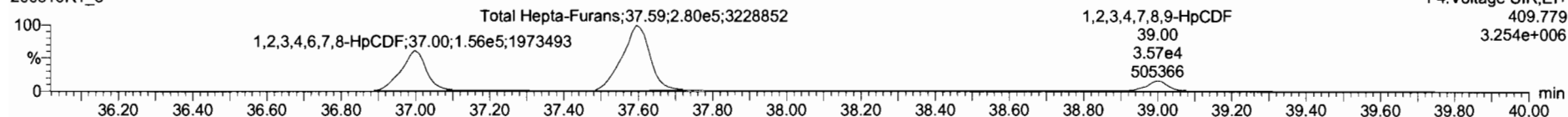
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1,2,3,4,6,7,8-HpCDF

200516R1_3

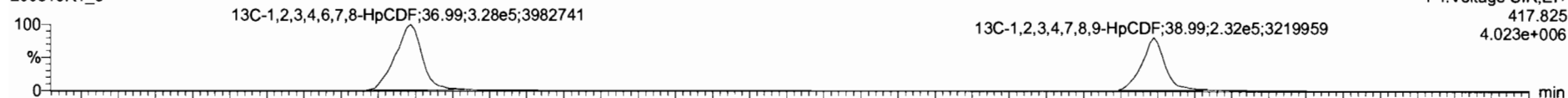


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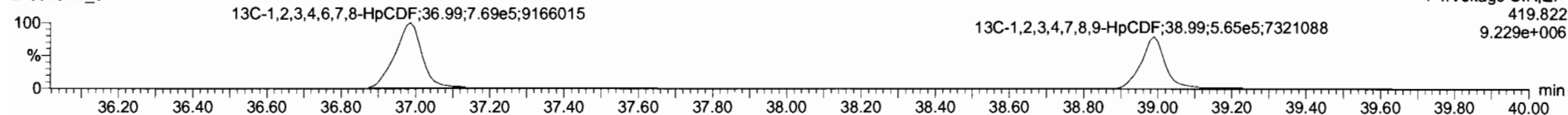


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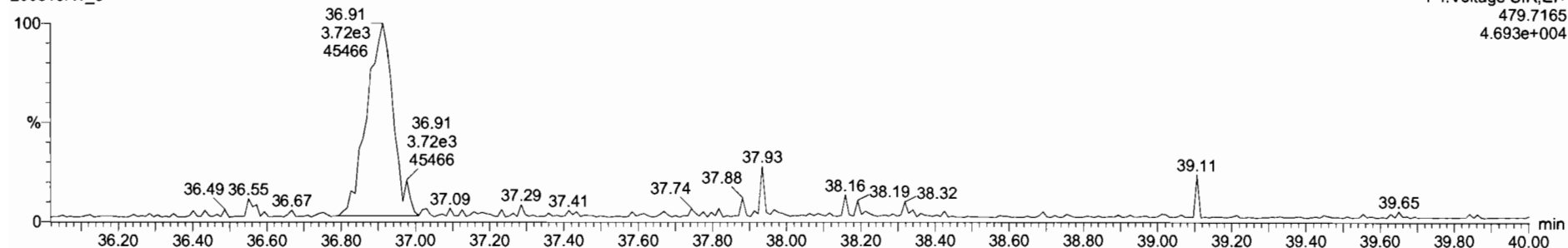


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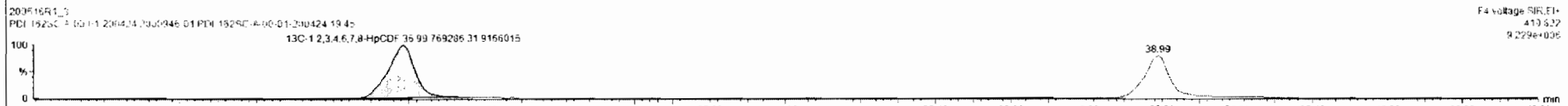
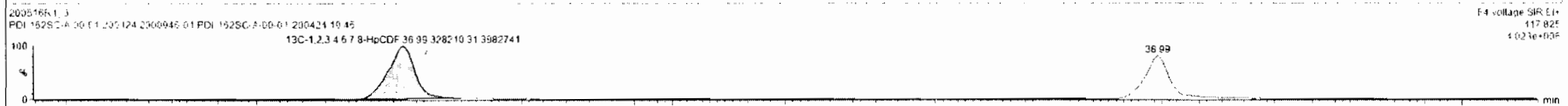
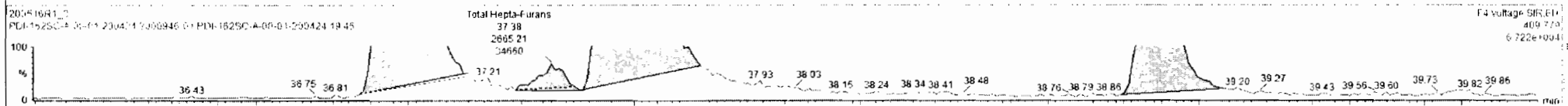
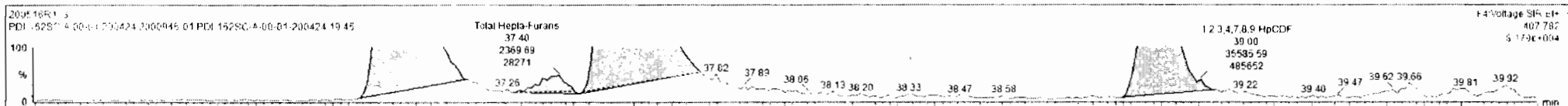
DPE4

200516R1_3



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	QL	EMPC
45 Total Penta-Furans				0.9102	10.114			261	0.196	291	
46 Total Hexa-Furans				0.9217	10.114			262	0.323	263	

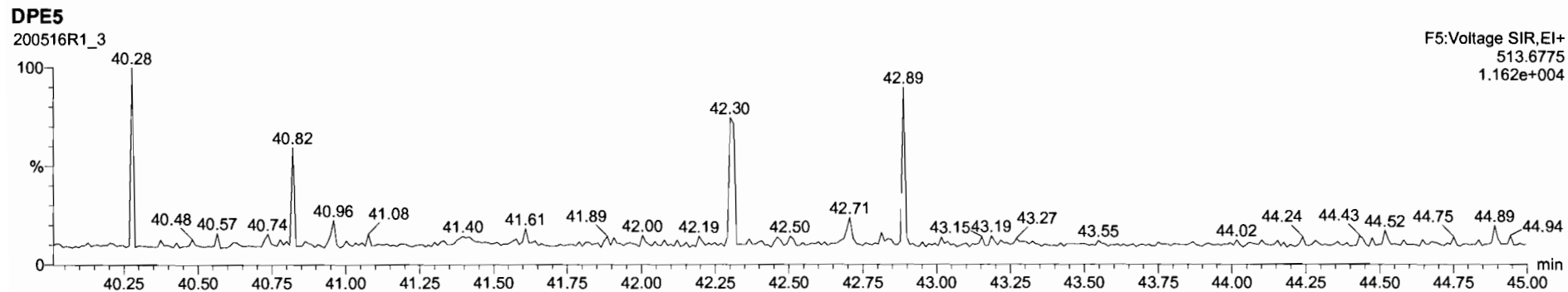
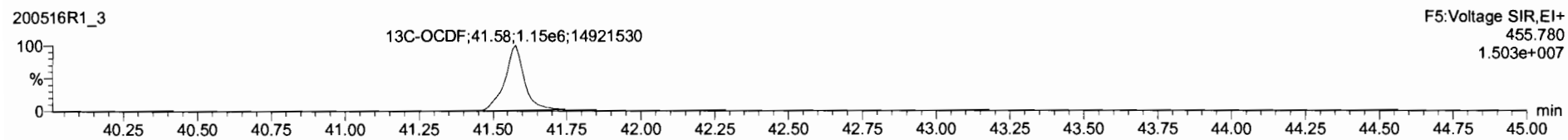
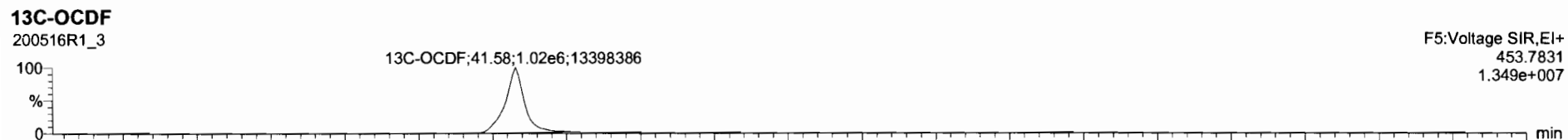
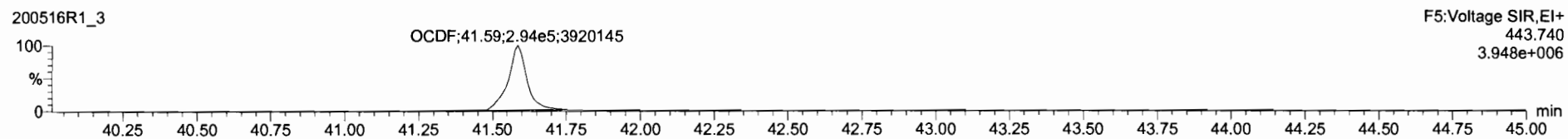
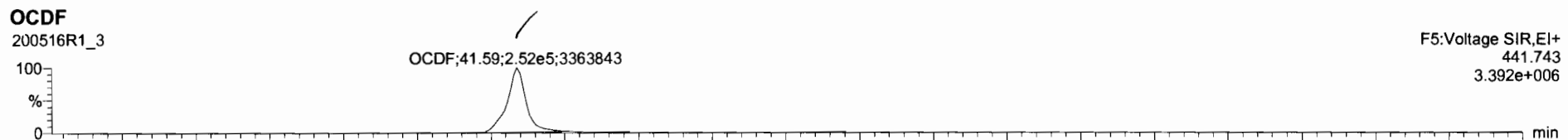
Name	RT	n/y	Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	37.20	1.581e5	1.559e5	1.01	NO	54.949	54.545
2 Total Hepta-Furans	37.40	2.370e3	2.665e3	0.89	NO	1.2061	1.2061
3 Total Hepta-Furans	37.59	2.825e5	2.799e5	1.01	NO	174.68	174.68
4 1,2,3,4,7,8,9-HpCDF	39.00	3.559e4	3.567e4	1.00	NO	17.464	17.464



Dataset: Untitled

Last Altered: Monday, May 18, 2020 07:36:56 Pacific Daylight Time
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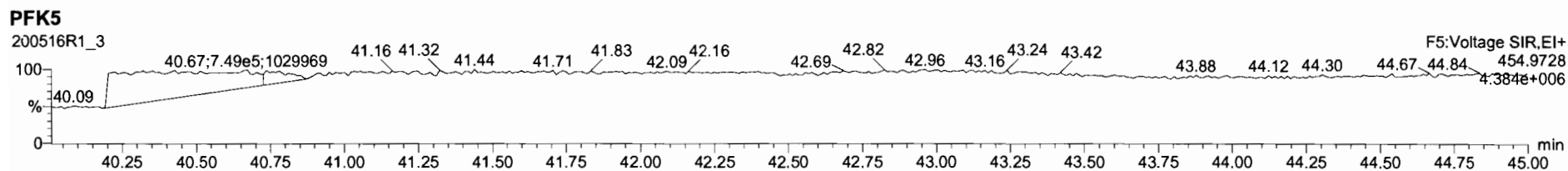
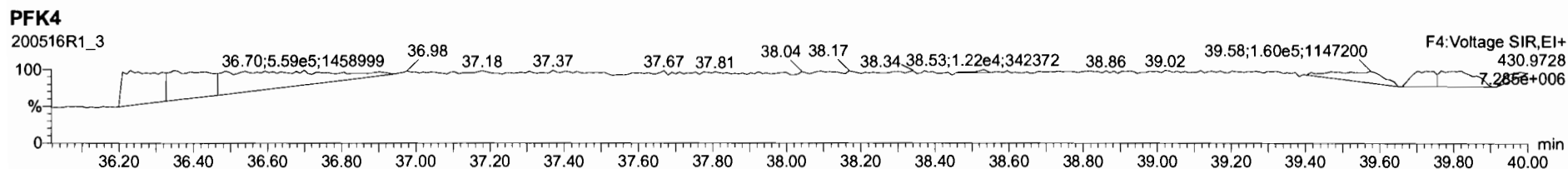
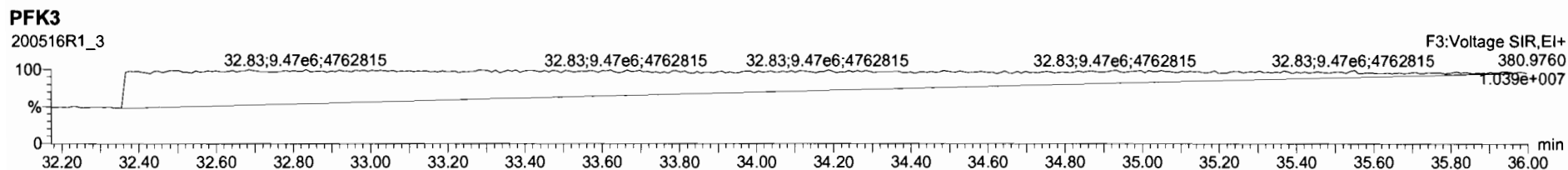
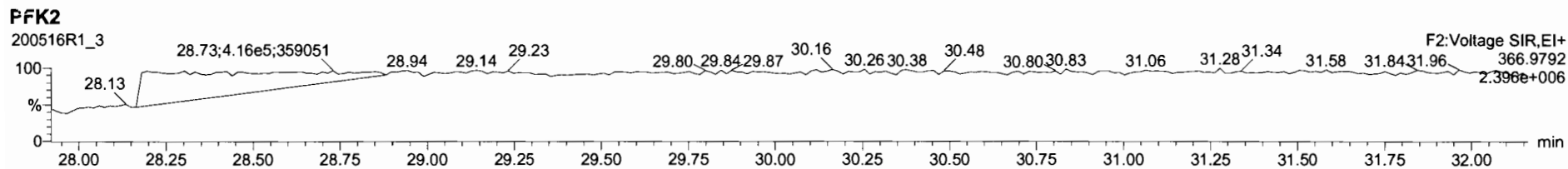
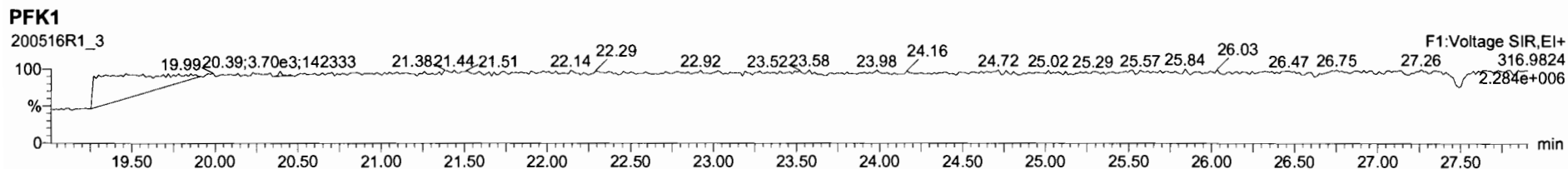
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Dataset: Untitled

Last Altered: Monday, May 18, 2020 07:36:56 Pacific Daylight Time
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Name: 200516R1_3, Date: 16-May-2020, Time: 10:44:33, ID: 2000946-01 PDI-162SC-A-00-01-200424 19.45, Description: PDI-162SC-A-00-01-200424



Dataset: U:\VG12.PRO\Results\200516R1\200516R1-4.qld

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GPB 05/18/2020

C7 05/22/2020

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

Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200516R1_4, Date: 16-May-2020, Time: 11:30:44, ID: 2000946-02 PDI-162SC-A-02-03-200424 19.14, Description: PDI-162SC-A-02-03-200424

#	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	1.16e4	0.75	NO	0.947	10.306	26.080	26.08	1.001	1.001	2.0439		0.120	2.04
2	2 1,2,3,7,8-PeCDD	1.04e4	0.71	NO	0.942	10.306	31.147	31.14	1.001	1.000	1.7854		0.126	1.79
3	3 1,2,3,4,7,8-HxCDD	7.34e3	1.22	NO	1.06	10.306	34.526	34.53	1.000	1.000	1.3258		0.193	1.33
4	4 1,2,3,6,7,8-HxCDD	6.66e4	1.25	NO	0.915	10.306	34.612	34.63	1.000	1.001	10.995		0.183	11.0
5	5 1,2,3,7,8,9-HxCDD	2.57e4	1.27	NO	0.915	10.306	34.899	34.90	1.000	1.000	4.2744		0.190	4.27
6	6 1,2,3,4,6,7,8-HpCDD	2.25e6	1.03	NO	0.898	10.306	38.415	38.41	1.000	1.000	457.72		0.630	458
7	7 OCDD	2.32e7	0.87	NO	0.933	10.306	41.386	41.40	1.000	1.000	4621.1		0.688	4620
8	8 2,3,7,8-TCDF	4.24e5	0.75	NO	0.787	10.306	25.147	25.15	1.001	1.001	80.160	(76.6)	0.276	80.2
9	9 1,2,3,7,8-PeCDF	7.03e5	1.56	NO	0.910	10.306	29.849	29.84	1.001	1.001	93.016		0.237	93.0
10	10 2,3,4,7,8-PeCDF	3.97e5	1.55	NO	0.966	10.306	30.850	30.85	1.001	1.001	53.384		0.218	53.4
11	11 1,2,3,4,7,8-HxCDF	1.32e6	1.21	NO	0.878	10.306	33.643	33.66	1.000	1.001	222.67		0.304	223
12	12 1,2,3,6,7,8-HxCDF	3.94e5	1.24	NO	0.874	10.306	33.770	33.78	1.000	1.001	60.464		0.298	60.5
13	13 2,3,4,6,7,8-HxCDF	1.10e5	1.22	NO	0.922	10.306	34.380	34.36	1.001	1.000	16.330		0.305	16.3
14	14 1,2,3,7,8,9-HxCDF	8.51e4	1.16	NO	0.864	10.306	35.240	35.29	1.000	1.002	16.000		0.445	16.0
15	15 1,2,3,4,6,7,8-HpCDF	1.04e6	1.02	NO	0.871	10.306	37.013	36.99	1.001	1.000	198.44		0.367	198
16	16 1,2,3,4,7,8,9-HpCDF	1.84e5	1.02	NO	1.01	10.306	38.979	38.99	1.000	1.000	42.378		0.387	42.4
17	17 OCDF	1.82e6	0.87	NO	0.802	10.306	41.567	41.59	1.000	1.001	395.22		0.271	395
18	18 13C-2,3,7,8-TCDD	1.16e6	0.79	NO	1.16	10.306	26.046	26.05	1.026	1.027	116.87	60.2	0.154	
19	19 13C-1,2,3,7,8-PeCDD	1.20e6	0.64	NO	0.847	10.306	31.141	31.13	1.227	1.227	164.90	85.0	0.222	
20	20 13C-1,2,3,4,7,8-HxCDD	1.01e6	1.27	NO	0.750	10.306	34.517	34.52	1.014	1.014	160.05	82.5	0.341	
21	21 13C-1,2,3,6,7,8-HxCDD	1.28e6	1.28	NO	0.963	10.306	34.629	34.61	1.017	1.017	158.51	81.7	0.266	
22	22 13C-1,2,3,7,8,9-HxCDD	1.28e6	1.23	NO	0.838	10.306	34.898	34.89	1.025	1.025	181.23	93.4	0.306	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.06e6	1.06	NO	0.641	10.306	38.390	38.40	1.128	1.128	197.18	102	0.383	
24	24 13C-OCDD	2.08e6	0.86	NO	0.586	10.306	41.386	41.39	1.216	1.216	422.25	109	0.370	
25	25 13C-2,3,7,8-TCDF	1.30e6	0.77	NO	1.03	10.306	25.104	25.12	0.989	0.990	103.06	53.1	0.248	
26	26 13C-1,2,3,7,8-PeCDF	1.61e6	1.59	NO	0.845	10.306	29.829	29.83	1.176	1.175	156.00	80.4	0.338	
27	27 13C-2,3,4,7,8-PeCDF	1.49e6	1.59	NO	0.814	10.306	30.822	30.82	1.215	1.214	149.94	77.3	0.351	
28	28 13C-1,2,3,4,7,8-HxCDF	1.31e6	0.51	NO	1.00	10.306	33.656	33.64	0.989	0.988	154.54	79.6	0.419	
29	29 13C-1,2,3,6,7,8-HxCDF	1.45e6	0.52	NO	1.14	10.306	33.778	33.76	0.992	0.992	151.42	78.0	0.371	
30	30 13C-2,3,4,6,7,8-HxCDF	1.42e6	0.52	NO	1.02	10.306	34.347	34.35	1.009	1.009	165.05	85.1	0.412	
31	31 13C-1,2,3,7,8,9-HxCDF	1.19e6	0.53	NO	0.845	10.306	35.239	35.24	1.035	1.035	168.11	86.6	0.499	

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-4.qld

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Name: 200516R1_4, Date: 16-May-2020, Time: 11:30:44, ID: 2000946-02 PDI-162SC-A-02-03-200424 19.14, Description: PDI-162SC-A-02-03-200424

#	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	1.17e6	0.44	NO	0.771	10.306	36.971	36.98	1.086	1.086	180.55	93.0	0.352	
33	13C-1,2,3,4,7,8,9-HpCDF	8.32e5	0.43	NO	0.482	10.306	38.983	38.98	1.145	1.145	205.14	106	0.564	
34	13C-OCDF	2.22e6	0.88	NO	0.669	10.306	41.556	41.57	1.221	1.221	395.27	102	0.310	
35	37Cl-2,3,7,8-TCDD	4.62e5			1.10	10.306	26.076	26.08	1.028	1.028	49.065	63.2	0.0584	
36	13C-1,2,3,4-TCDD	1.66e6	0.79	NO	1.00	10.306	25.350	25.38	1.000	1.000	194.06	100	0.179	
37	13C-1,2,3,4-TCDF	2.37e6	0.79	NO	1.00	10.306	23.560	23.61	1.000	1.000	194.06	100	0.256	
38	13C-1,2,3,4,6,9-HxCDF	1.63e6	0.51	NO	1.00	10.306	34.000	34.04	1.000	1.000	194.06	100	0.421	
39	Total Tetra-Dioxins				0.947	10.306	24.620		0.000		18.713		0.120	19.0
40	Total Penta-Dioxins				0.942	10.306	29.960		0.000		21.516		0.126	24.0
41	Total Hexa-Dioxins				0.915	10.306	33.635		0.000		118.30		0.197	118
42	Total Hepta-Dioxins				0.898	10.306	37.640		0.000		1040.9		0.630	1040
43	Total Tetra-Furans				0.787	10.306	23.610		0.000		319.97		0.276	320
44	1st Func. Penta-Furans				0.910	10.306	27.090		0.000		97.364		0.0494	97.4
45	Total Penta-Furans				0.910	10.306	29.275		0.000		284.22		0.234	308
46	Total Hexa-Furans				0.922	10.306	33.555		0.000		493.26		0.320	493
47	Total Hepta-Furans				0.871	10.306	37.835		0.000		515.44		0.401	515

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-4.qld

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

Name: 200516R1_4, Date: 16-May-2020, Time: 11:30:44, ID: 2000946-02 PDI-162SC-A-02-03-200424 19.14, Description: PDI-162SC-A-02-03-200424

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	2.267e5	3.058e5	2.152e4	2.737e4	0.79	NO	4.889e4	8.6283	8.6283	0.120
2	Total Tetra-Dioxins	22.35	4.271e4	5.620e4	4.076e3	5.435e3	0.75	NO	9.511e3	1.6786	1.6786	0.120
3	Total Tetra-Dioxins	22.86	1.357e4	1.807e4	1.538e3	1.929e3	0.80	NO	3.467e3	0.61187	0.61187	0.120
4	Total Tetra-Dioxins	23.79	1.133e4	1.502e4	8.979e2	1.130e3	0.79	NO	2.028e3	0.35785	0.35785	0.120
5	Total Tetra-Dioxins	24.06	2.363e4	3.262e4	2.241e3	3.033e3	0.74	NO	5.274e3	0.93080	0.93080	0.120
6	Total Tetra-Dioxins	24.30	4.136e4	5.075e4	3.612e3	4.264e3	0.85	NO	7.876e3	1.3900	1.3900	0.120
7	Total Tetra-Dioxins	24.51	9.517e3	1.325e4	7.166e2	9.431e2	0.76	NO	1.660e3	0.29291	0.29291	0.120
8	Total Tetra-Dioxins	24.81	6.014e3	8.126e3	5.177e2	7.017e2	0.74	NO	1.219e3	0.21522	0.21522	0.120
9	Total Tetra-Dioxins	24.99	2.177e4	1.865e4	1.121e3	1.432e3	0.78	NO	2.552e3	0.45046	0.45046	0.120
10	Total Tetra-Dioxins	25.39	7.965e3	9.682e3	7.045e2	9.663e2	0.73	NO	1.671e3	0.29487	0.29487	0.120
11	Total Tetra-Dioxins	25.80	4.546e4	5.483e4	3.688e3	4.719e3	0.78	NO	8.407e3	1.4837	1.4837	0.120
12	Total Tetra-Dioxins	25.92	1.261e4	8.072e3	4.414e2	4.673e2	0.94	YES	0.000e0	0.00000	0.14596	0.120
13	2,3,7,8-TCDD	26.08	6.541e4	1.013e5	4.945e3	6.636e3	0.75	NO	1.158e4	2.0439	2.0439	0.120
14	Total Tetra-Dioxins	26.42	1.192e4	1.588e4	8.420e2	1.056e3	0.80	NO	1.898e3	0.33495	0.33495	0.120
15	Total Tetra-Dioxins	27.05	7.351e3	6.375e3	5.976e2	5.368e2	1.11	YES	0.000e0	0.00000	0.16770	0.120

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-4.qld

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Name: 200516R1_4, Date: 16-May-2020, Time: 11:30:44, ID: 2000946-02 PDI-162SC-A-02-03-200424 19.14, Description: PDI-162SC-A-02-03-200424

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.90	2.279e5	3.817e5	1.712e4	2.844e4	0.60	NO	4.556e4	7.8404	7.8404	0.126
2	Total Penta-Dioxins	29.37	4.091e4	7.195e4	2.408e3	4.292e3	0.56	NO	6.700e3	1.1530	1.1530	0.126
3	Total Penta-Dioxins	29.87	2.394e5	3.833e5	1.405e4	2.112e4	0.67	NO	3.517e4	6.0530	6.0530	0.126
4	Total Penta-Dioxins	30.06	6.344e4	9.626e4	3.076e3	5.099e3	0.60	NO	8.174e3	1.4067	1.4067	0.126
5	Total Penta-Dioxins	30.15	6.232e4	9.081e4	3.553e3	5.424e3	0.66	NO	8.977e3	1.5449	1.5449	0.126
6	Total Penta-Dioxins	30.36	4.621e4	7.430e4	2.733e3	3.347e3	0.82	YES	0.000e0	0.00000	0.93878	0.126
7	Total Penta-Dioxins	30.41	4.825e4	7.407e4	2.688e3	4.019e3	0.67	NO	0.000e0	0.00000	1.1543	0.126
8	Total Penta-Dioxins	30.70	2.647e4	4.475e4	1.455e3	2.179e3	0.67	NO	3.635e3	0.62554	0.62554	0.126
9	1,2,3,7,8-PeCDD	31.14	6.570e4	1.012e5	4.319e3	6.055e3	0.71	NO	1.037e4	1.7854	1.7854	0.126
10	Total Penta-Dioxins	31.23	2.258e4	3.879e4	1.369e3	2.003e3	0.68	NO	3.373e3	0.58040	0.58040	0.126
11	Total Penta-Dioxins	31.43	4.454e4	2.283e4	1.784e3	1.377e3	1.30	YES	0.000e0	0.00000	0.38614	0.126
12	Total Penta-Dioxins	31.54	2.204e4	3.577e4	1.093e3	1.969e3	0.55	NO	3.062e3	0.52701	0.52701	0.126

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.05	2.598e6	2.057e6	1.458e5	1.165e5	1.25	NO	2.623e5	46.751	46.751	0.197
2	Total Hexa-Dioxins	33.60	3.117e5	2.549e5	1.882e4	1.536e4	1.23	NO	3.417e4	6.0913	6.0913	0.197
3	Total Hexa-Dioxins	33.85	1.889e6	1.494e6	1.395e5	1.121e5	1.24	NO	2.516e5	44.846	44.846	0.197
4	Total Hexa-Dioxins	33.93	1.091e5	9.389e4	6.565e3	5.480e3	1.20	NO	1.205e4	2.1470	2.1470	0.197
5	1,2,3,4,7,8-HxCDD	34.53	7.595e4	6.007e4	4.040e3	3.302e3	1.22	NO	7.342e3	1.3258	1.3258	0.193
6	1,2,3,6,7,8-HxCDD	34.63	5.375e5	4.368e5	3.691e4	2.964e4	1.25	NO	6.655e4	10.995	10.995	0.183
7	Total Hexa-Dioxins	34.80	9.351e4	7.775e4	5.748e3	4.756e3	1.21	NO	1.050e4	1.8723	1.8723	0.197
8	1,2,3,7,8,9-HxCDD	34.90	1.849e5	1.565e5	1.438e4	1.135e4	1.27	NO	2.574e4	4.2744	4.2744	0.190

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	1.707e7	1.670e7	1.445e6	1.426e6	1.01	NO	2.872e6	583.16	583.16	0.630
2	1,2,3,4,6,7,8-HpCDD	38.41	1.389e7	1.341e7	1.141e6	1.113e6	1.03	NO	2.254e6	457.72	457.72	0.630

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-4.qld

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Name: 200516R1_4, Date: 16-May-2020, Time: 11:30:44, ID: 2000946-02 PDI-162SC-A-02-03-200424 19.14, Description: PDI-162SC-A-02-03-200424

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	7.638e4	1.041e5	6.254e3	8.284e3	0.75	NO	1.454e4	2.7496	2.7496	0.276
2	Total Tetra-Furans	20.38	1.020e5	1.414e5	8.815e3	1.202e4	0.73	NO	2.084e4	3.9411	3.9411	0.276
3	Total Tetra-Furans	20.96	7.687e5	1.054e6	6.562e4	8.825e4	0.74	NO	1.539e5	29.101	29.101	0.276
4	Total Tetra-Furans	21.42	5.121e4	6.180e4	2.867e3	3.889e3	0.74	NO	6.756e3	1.2777	1.2777	0.276
5	Total Tetra-Furans	21.50	1.334e5	1.679e5	1.474e4	1.946e4	0.76	NO	3.420e4	6.4681	6.4681	0.276
6	Total Tetra-Furans	21.89	5.939e5	8.287e5	5.710e4	7.821e4	0.73	NO	1.353e5	25.589	25.589	0.276
7	Total Tetra-Furans	22.37	4.244e5	5.598e5	4.015e4	5.315e4	0.76	NO	9.330e4	17.646	17.646	0.276
8	Total Tetra-Furans	22.52	2.335e4	3.151e4	1.881e3	2.420e3	0.78	NO	4.301e3	0.81337	0.81337	0.276
9	Total Tetra-Furans	22.73	8.405e4	1.110e5	8.006e3	9.857e3	0.81	NO	1.786e4	3.3784	3.3784	0.276
10	Total Tetra-Furans	23.21	1.740e4	2.408e4	1.704e3	2.187e3	0.78	NO	3.891e3	0.73594	0.73594	0.276
11	Total Tetra-Furans	23.34	4.461e4	5.926e4	3.881e3	5.529e3	0.70	NO	9.410e3	1.7796	1.7796	0.276
12	Total Tetra-Furans	23.55	3.160e5	4.265e5	2.664e4	3.588e4	0.74	NO	6.252e4	11.825	11.825	0.276
13	Total Tetra-Furans	23.62	3.690e5	4.880e5	3.784e4	5.145e4	0.74	NO	8.930e4	16.888	16.888	0.276
14	Total Tetra-Furans	24.16	1.987e6	2.716e6	1.754e5	2.325e5	0.75	NO	4.079e5	77.142	77.142	0.276
15	Total Tetra-Furans	24.30	2.300e4	4.112e4	1.364e3	1.897e3	0.72	NO	3.260e3	0.61662	0.61662	0.276
16	Total Tetra-Furans	24.46	7.785e4	1.034e5	6.948e3	8.691e3	0.80	NO	1.564e4	2.9577	2.9577	0.276
17	Total Tetra-Furans	24.67	3.220e4	5.381e4	3.089e3	4.694e3	0.66	NO	7.782e3	1.4718	1.4718	0.276
18	Total Tetra-Furans	24.93	4.044e4	5.297e4	3.245e3	3.809e3	0.85	NO	7.054e3	1.3340	1.3340	0.276
19	Total Tetra-Furans	25.03	4.474e5	5.821e5	2.993e4	4.146e4	0.72	NO	7.138e4	13.501	13.501	0.276
20	2,3,7,8-TCDF	25.15	2.389e6	3.085e6	1.818e5	2.420e5	0.75	NO	4.238e5	80.160	80.160	0.276
21	Total Tetra-Furans	25.29	2.840e4	3.004e4	2.212e3	2.870e3	0.77	NO	5.081e3	0.96100	0.96100	0.276
22	Total Tetra-Furans	25.54	1.354e5	1.774e5	1.065e4	1.398e4	0.76	NO	2.463e4	4.6581	4.6581	0.276
23	Total Tetra-Furans	25.80	2.668e4	3.499e4	1.976e3	2.554e3	0.77	NO	4.530e3	0.85675	0.85675	0.276
24	Total Tetra-Furans	27.22	5.264e5	5.984e5	3.482e4	3.984e4	0.87	NO	7.466e4	14.121	14.121	0.276

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	27.20	6.985e6	4.528e6	4.343e5	2.746e5	1.58	NO	7.089e5	97.364	97.364	0.0494

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-4.qld

Last Altered: Monday, May 18, 2020 11:10:39 Pacific Daylight Time
 Printed: Monday, May 18, 2020 11:11:13 Pacific Daylight Time

Name: 200516R1_4, Date: 16-May-2020, Time: 11:30:44, ID: 2000946-02 PDI-162SC-A-02-03-200424 19.14, Description: PDI-162SC-A-02-03-200424

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	2.444e5	1.314e5	1.316e4	8.006e3	1.64	NO	2.117e4	2.9073	2.9073	0.234
2	Total Penta-Furans	28.84	4.735e6	3.005e6	3.467e5	2.219e5	1.56	NO	5.686e5	78.094	78.094	0.234
3	Total Penta-Furans	29.43	1.742e6	1.115e6	9.684e4	6.117e4	1.58	NO	0.000e0	0.00000	21.702	0.234
4	Total Penta-Furans	29.48	2.796e5	1.621e5	7.990e3	5.211e3	1.53	NO	0.000e0	0.00000	1.8131	0.234
5	Total Penta-Furans	29.65	8.455e5	5.823e5	4.546e4	2.901e4	1.57	NO	7.447e4	10.228	10.228	0.234
6	1,2,3,7,8-PeCDF	29.84	7.420e6	4.733e6	4.289e5	2.743e5	1.56	NO	7.033e5	93.016	93.016	0.237
7	Total Penta-Furans	29.92	1.999e5	1.205e5	7.181e3	4.762e3	1.51	NO	1.194e4	1.6402	1.6402	0.234
8	Total Penta-Furans	30.10	2.547e6	1.677e6	1.420e5	9.181e4	1.55	NO	2.338e5	32.106	32.106	0.234
9	Total Penta-Furans	30.73	1.237e5	7.094e4	5.987e3	3.785e3	1.58	NO	9.773e3	1.3422	1.3422	0.234
10	2,3,4,7,8-PeCDF	30.85	3.844e6	2.487e6	2.412e5	1.556e5	1.55	NO	3.968e5	53.384	53.384	0.218
11	Total Penta-Furans	30.88	1.933e6	1.265e6	3.973e4	2.557e4	1.55	NO	6.530e4	8.9684	8.9684	0.234
12	Total Penta-Furans	31.78	1.911e5	1.258e5	1.146e4	6.974e3	1.64	NO	1.843e4	2.5315	2.5315	0.234

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	1.453e6	1.197e6	7.750e4	6.248e4	1.24	NO	1.400e5	21.954	21.954	0.320
2	Total Hexa-Furans	32.65	4.430e6	3.637e6	2.409e5	1.979e5	1.22	NO	4.388e5	68.815	68.815	0.320
3	Total Hexa-Furans	33.01	7.311e4	6.050e4	3.835e3	3.147e3	1.22	NO	6.982e3	1.0950	1.0950	0.320
4	Total Hexa-Furans	33.19	4.717e6	3.926e6	2.648e5	2.167e5	1.22	NO	4.815e5	75.527	75.527	0.320
5	Total Hexa-Furans	33.56	1.361e5	9.126e4	6.164e3	4.740e3	1.30	NO	1.090e4	1.7102	1.7102	0.320
6	1,2,3,4,7,8-HxCDF	33.66	1.210e7	1.006e7	7.209e5	5.959e5	1.21	NO	1.317e6	222.67	222.67	0.304
7	1,2,3,6,7,8-HxCDF	33.78	3.475e6	2.790e6	2.186e5	1.757e5	1.24	NO	3.944e5	60.464	60.464	0.298
8	Total Hexa-Furans	33.87	1.373e5	1.204e5	7.887e3	6.266e3	1.26	NO	1.415e4	2.2199	2.2199	0.320
9	Total Hexa-Furans	34.06	7.628e4	6.152e4	6.430e3	4.556e3	1.41	NO	1.099e4	1.7230	1.7230	0.320
10	2,3,4,6,7,8-HxCDF	34.36	9.579e5	7.748e5	6.044e4	4.967e4	1.22	NO	1.101e5	16.330	16.330	0.305
11	1,2,3,7,8,9-HxCDF	35.29	8.272e5	7.027e5	4.573e4	3.941e4	1.16	NO	8.514e4	16.000	16.000	0.445
12	Total Hexa-Furans	35.30	7.565e5	6.074e5	1.733e4	1.299e4	1.33	NO	3.032e4	4.7555	4.7555	0.320

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-4.qld

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.99	6.433e6	6.441e6	5.274e5	5.164e5	1.02	NO	1.044e6	198.44	198.44	0.367
2	Total Hepta-Furans	37.38	6.769e4	6.220e4	4.463e3	4.668e3	0.96	NO	9.130e3	2.0297	2.0297	0.401
3	Total Hepta-Furans	37.58	7.065e6	7.038e6	6.156e5	6.106e5	1.01	NO	1.226e6	272.59	272.59	0.401
4	1,2,3,4,7,8,9-HpCDF	38.99	1.329e6	1.295e6	9.283e4	9.106e4	1.02	NO	1.839e5	42.378	42.378	0.387

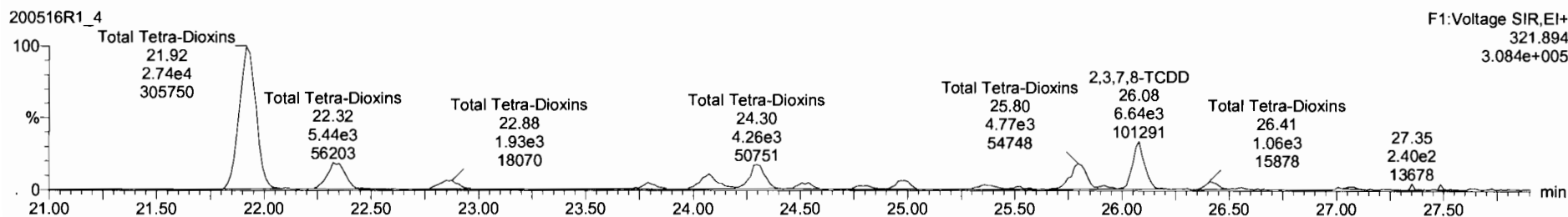
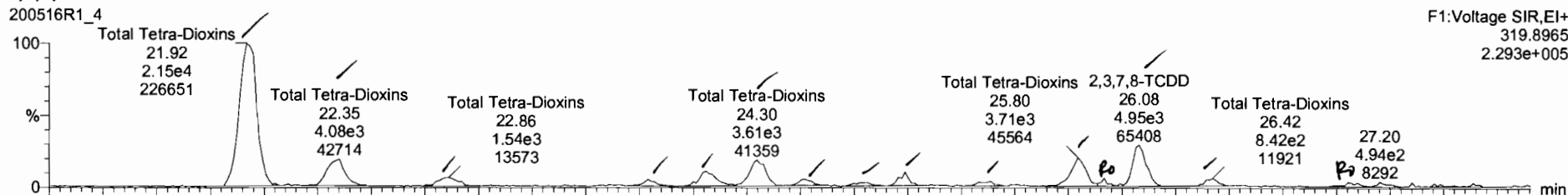
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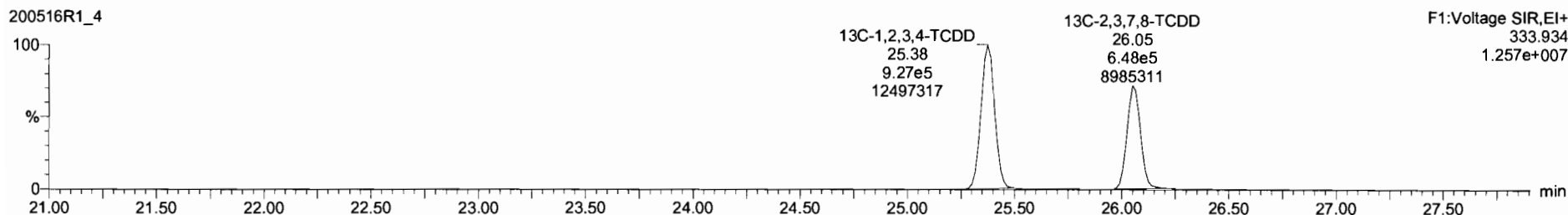
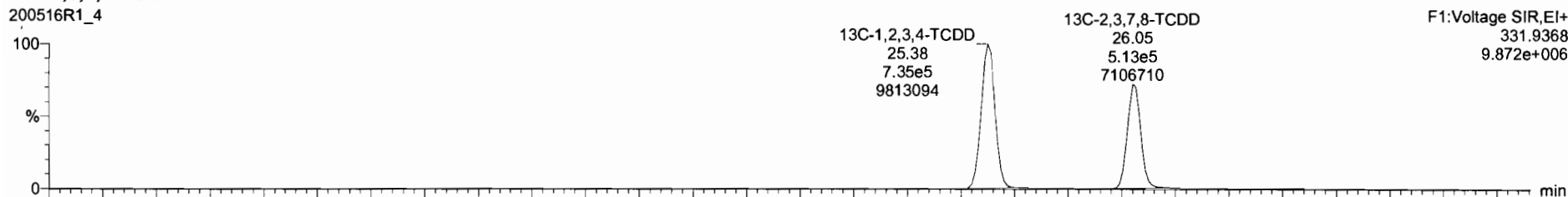
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2,3,7,8-TCDD

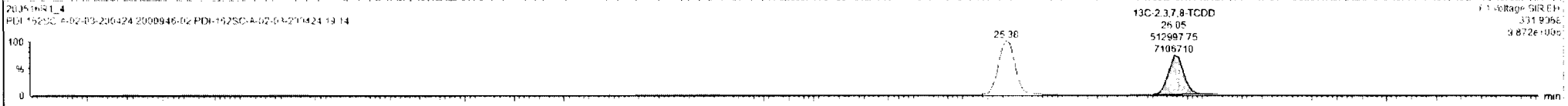
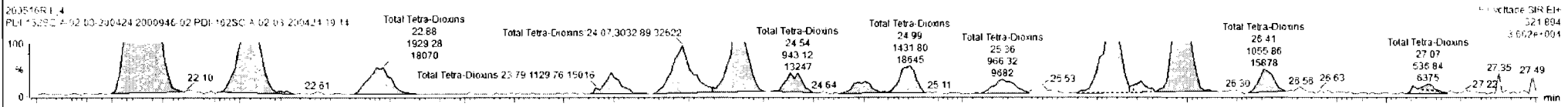
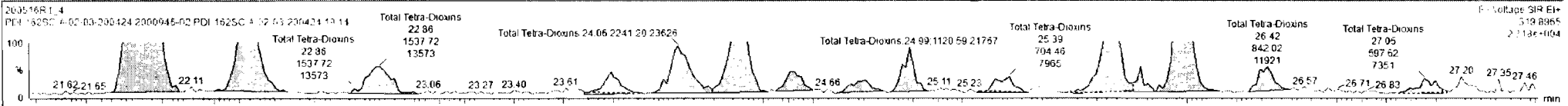


13C-2,3,7,8-TCDD



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.306			63.7		0.120	19.0
40 Total Penta-Dioxins				0.9425	10.306			17.5		0.126	22.7

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	21.92	2.152e4	2.737e4	0.79	NO	0.6283	0.6283
2 Total Tetra-Dioxins	22.35	4.076e3	5.435e3	0.75	NO	1.6786	1.6786
3 Total Tetra-Dioxins	22.86	1.536e3	1.929e3	0.60	NO	0.61187	0.61187
4 Total Tetra-Dioxins	23.79	8.979e2	1.130e3	0.79	NO	0.35785	0.35785
5 Total Tetra-Dioxins	24.06	2.241e3	3.023e3	0.74	NO	0.93080	0.93080
6 Total Tetra-Dioxins	24.30	3.612e2	4.264e3	0.65	NO	1.3900	1.3900
7 Total Tetra-Dioxins	24.51	7.166e2	9.431e2	0.76	NO	0.29291	0.29291
8 Total Tetra-Dioxins	24.81	5.177e2	7.017e2	0.74	NO	0.21522	0.21522
9 Total Tetra-Dioxins	24.99	1.121e3	1.432e3	0.78	NO	0.45046	0.45046
10 Total Tetra-Dioxins	25.39	7.045e2	9.663e2	0.73	NO	0.29487	0.29487
11 Total Tetra-Dioxins	25.80	3.688e3	4.719e3	0.78	NO	1.4837	1.4837
12 Total Tetra-Dioxins	25.92	4.414e2	4.673e2	0.94	YES	0.14596	0.00000
13 2,3,7,8-TCDD	26.08	4.945e3	6.636e3	0.75	NO	2.0439	2.0439
14 Total Tetra-Dioxins	26.42	8.420e2	1.056e3	0.80	NO	0.33495	0.33495
15 Total Tetra-Dioxins	27.05	5.576e2	5.369e2	1.11	YES	0.16770	0.00000



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200516R1_4

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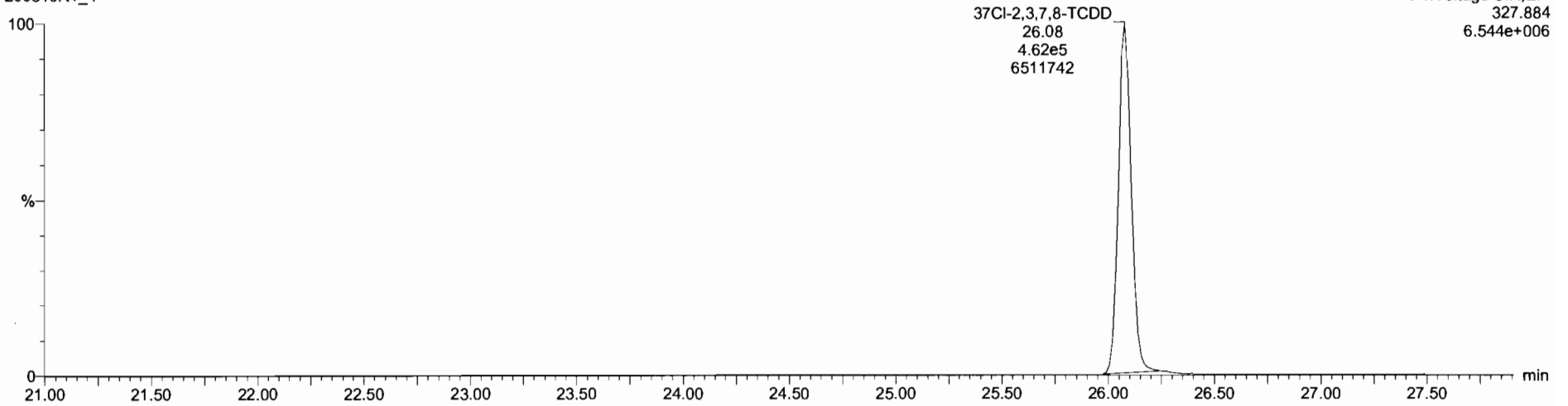
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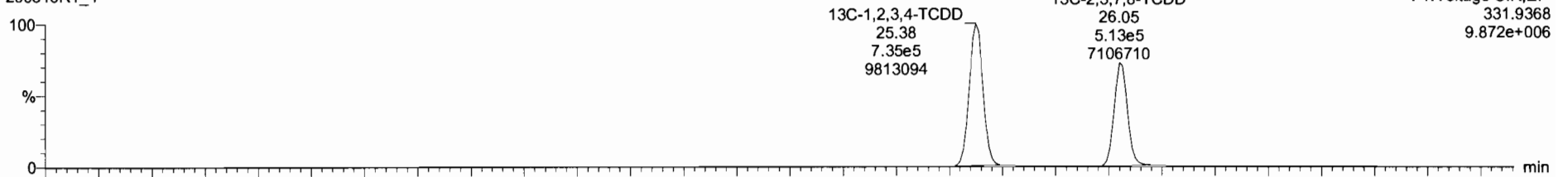
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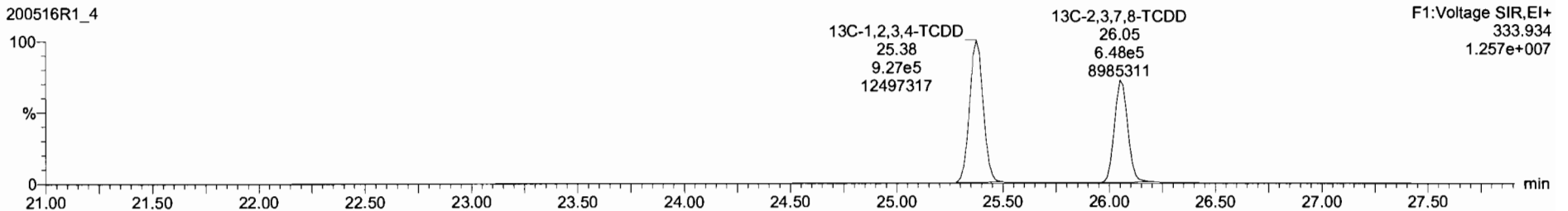


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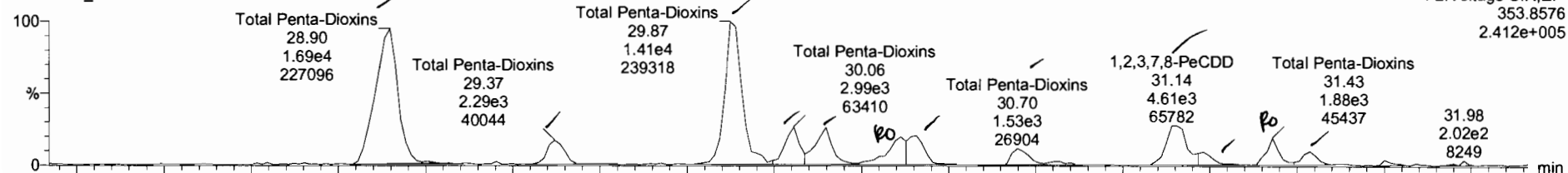
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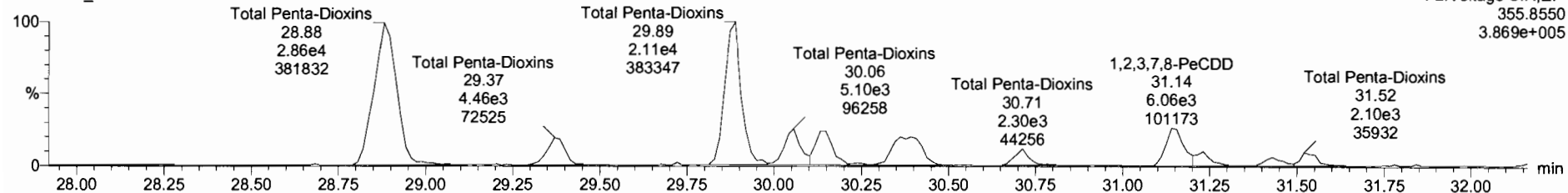
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1,2,3,7,8-PeCDD

200516R1_4

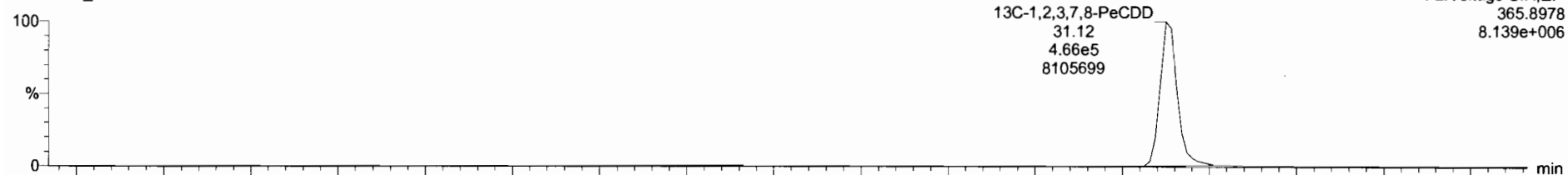


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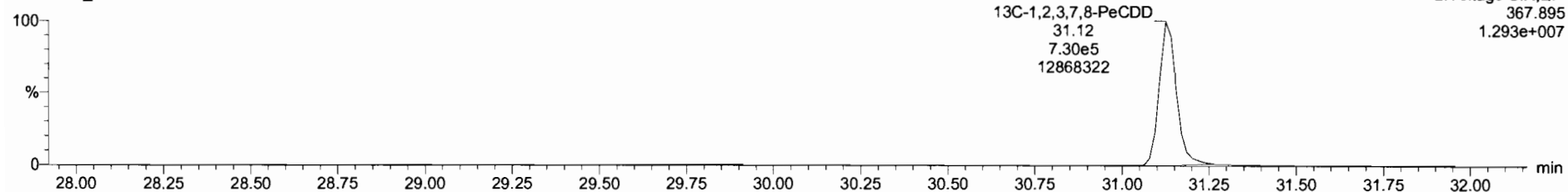


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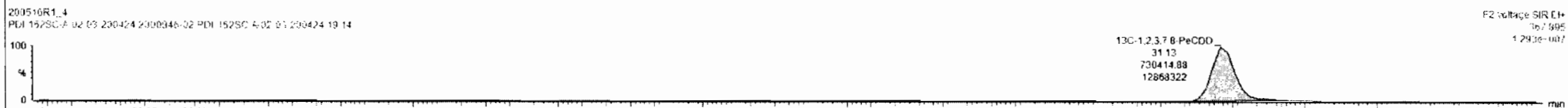
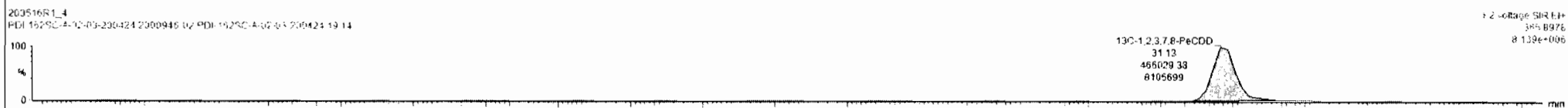
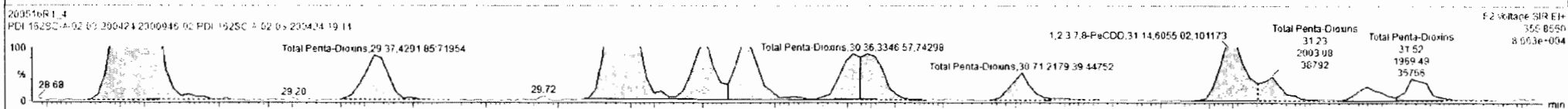
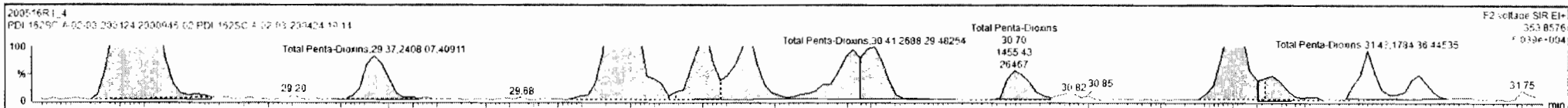


200516R1_4



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.306			18.7		0.120	19.0
40 Total Penta-Dioxins				0.9425	10.306			21.5		0.128	24.0

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.90	1.712e4	2.644e4	0.60	NO	7.8404	7.8404
2 Total Penta-Dioxins	29.37	2.408e3	4.292e3	0.56	NO	1.1530	1.1530
3 Total Penta-Dioxins	29.67	1.405e4	2.112e4	0.67	NO	6.0530	6.0530
4 Total Penta-Dioxins	30.06	3.076e3	5.099e3	0.60	NO	1.4067	1.4067
5 Total Penta-Dioxins	30.15	3.553e3	5.424e3	0.66	NO	1.5449	1.5449
6 Total Penta-Dioxins	30.36	2.732e2	3.347e3	0.82	YES	0.92878	0.00000
7 Total Penta-Dioxins	30.41	2.688e3	4.019e3	0.67	NO	1.1543	0.00000
8 Total Penta-Dioxins	30.70	1.455e3	2.179e3	0.67	NO	0.82954	0.82954
9 1,2,3,7,8-PeCDD	31.14	4.319e2	6.055e3	0.71	NO	1.7854	1.7854
10 Total Penta-Dioxins	31.23	1.369e3	2.092e3	0.68	NO	0.56040	0.56040
11 Total Penta-Dioxins	31.42	1.784e3	1.377e3	1.30	YES	0.38614	0.00000
12 Total Penta-Dioxins	31.54	1.092e3	1.969e3	0.55	NO	0.52701	0.52701



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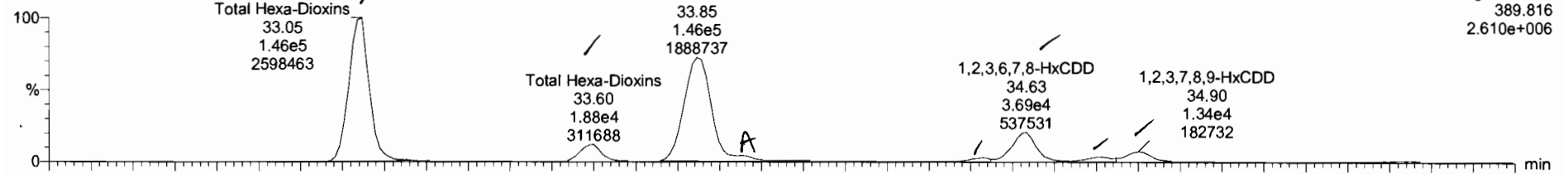
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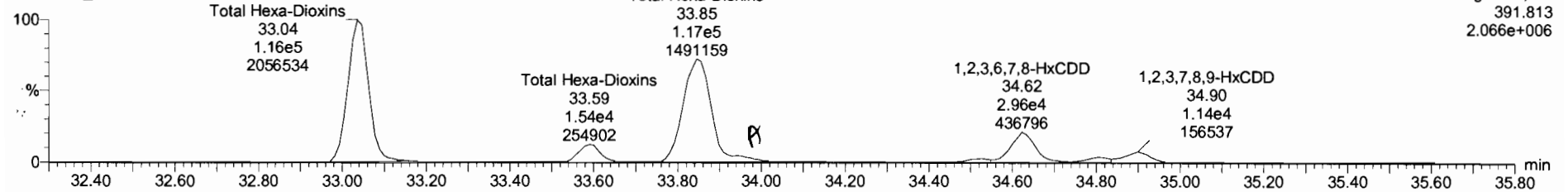
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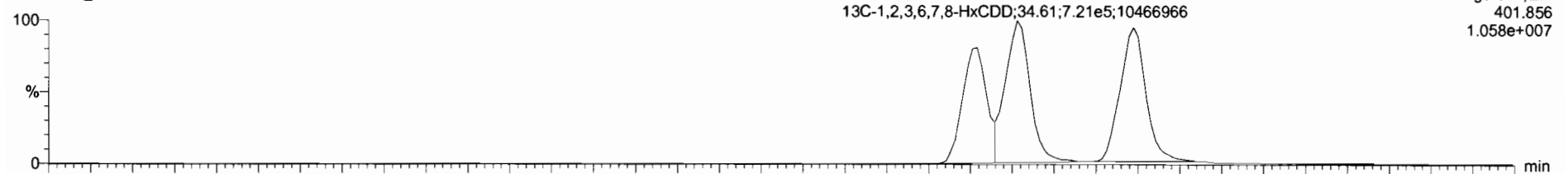


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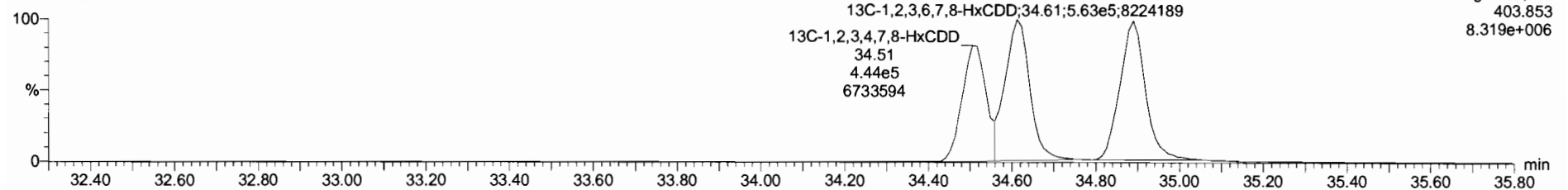


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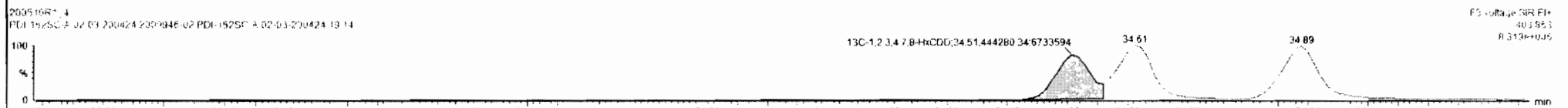
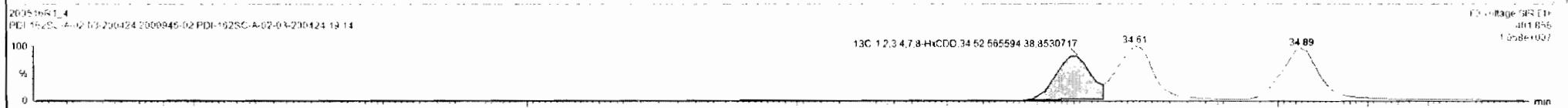
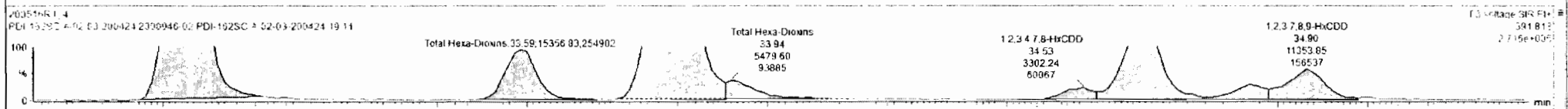
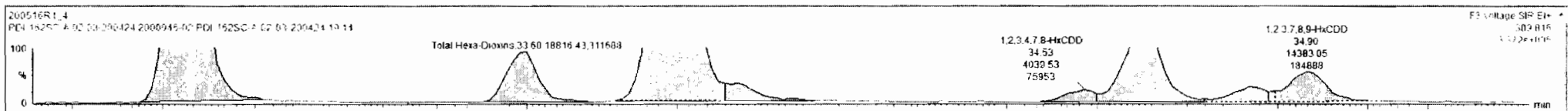


200516R1_4



Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.306			18.7		0.120	19.0
40 Total Penta-Dioxins				0.9425	10.306			21.5		0.126	24.0

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.05	1.458e5	1.165e5	1.25	NO	46.751	46.751
2 Total Hexa-Dioxins	33.60	1.852e4	1.536e4	1.23	NO	6.0913	6.9913
3 Total Hexa-Dioxins	33.85	1.356e5	1.121e5	1.24	NO	44.846	44.846
4 Total Hexa-Dioxins	33.93	6.565e3	5.480e3	1.20	NO	2.1470	2.1470
5 1,2,3,4,7,8-HxCDD	34.53	4.940e3	3.302e3	1.22	NO	1.3258	1.3258
6 1,2,3,6,7,8-HxCDD	34.63	3.891e4	2.964e4	1.25	NO	10.995	10.995
7 Total Hexa-Dioxins	34.80	5.746e3	4.756e3	1.21	NO	1.8723	1.8723
8 1,2,3,7,8,9-HxCDD	34.90	1.438e4	1.135e4	1.27	NO	4.2744	4.2744



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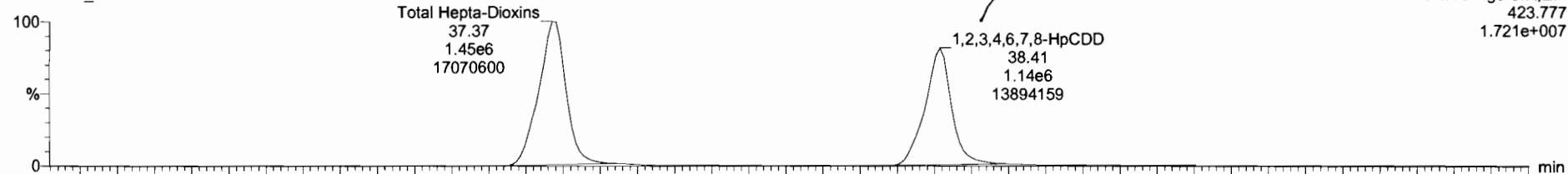
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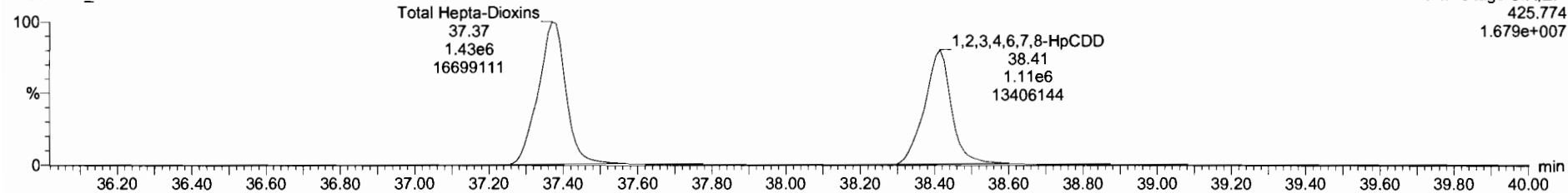
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1,2,3,4,6,7,8-HpCDD

200516R1_4

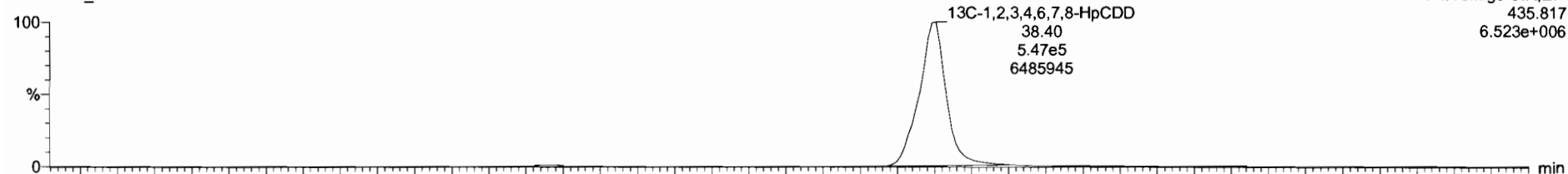


200516R1_4

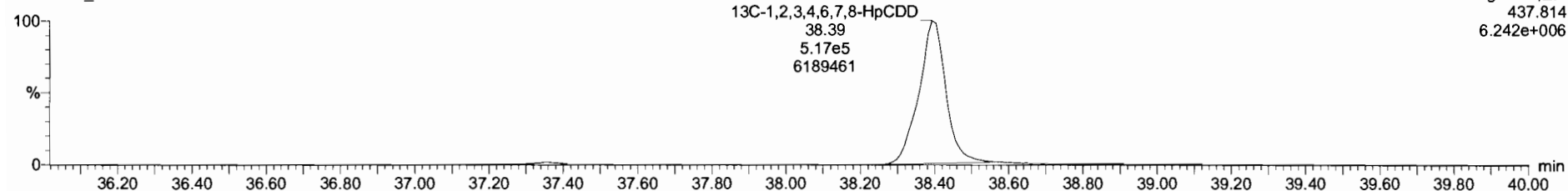


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200516R1_4



200516R1_4

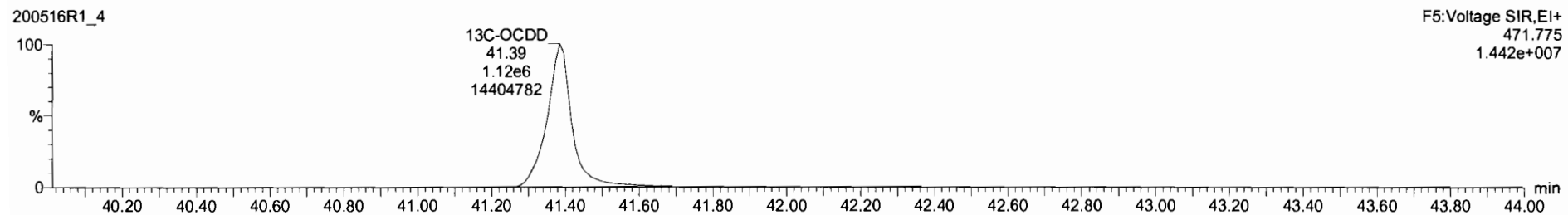
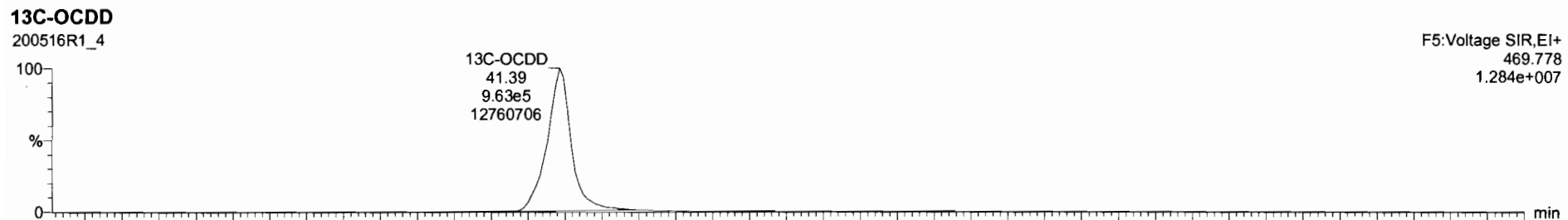
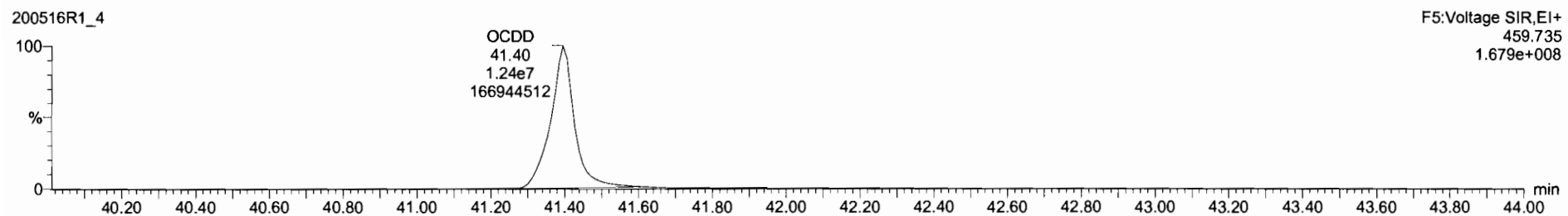
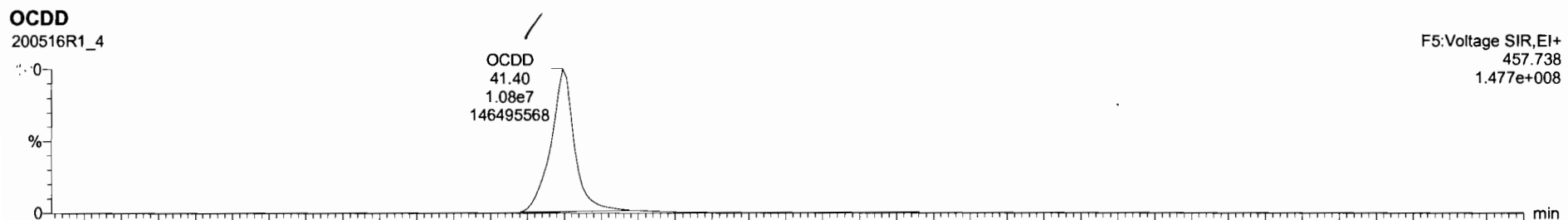


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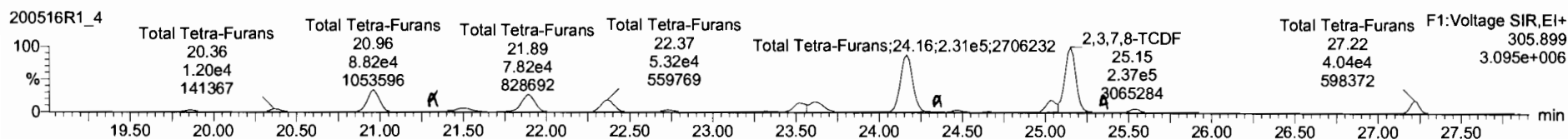
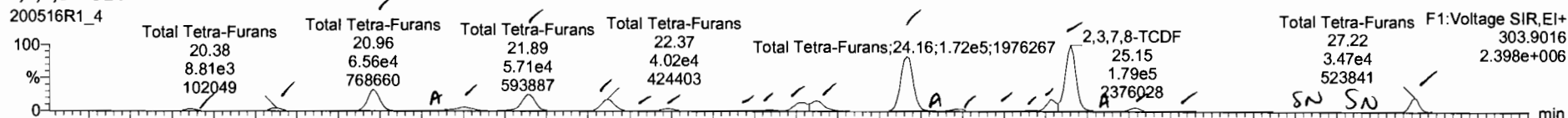


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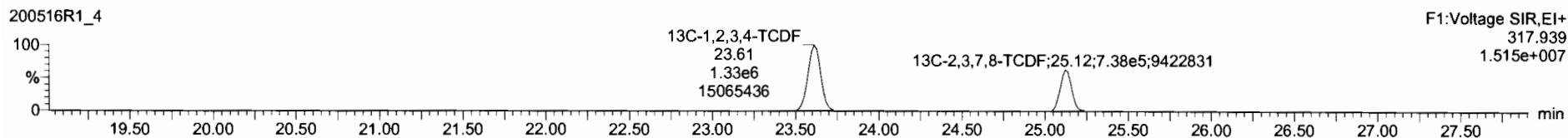
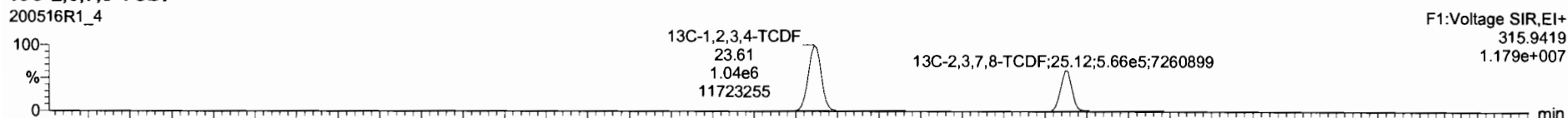
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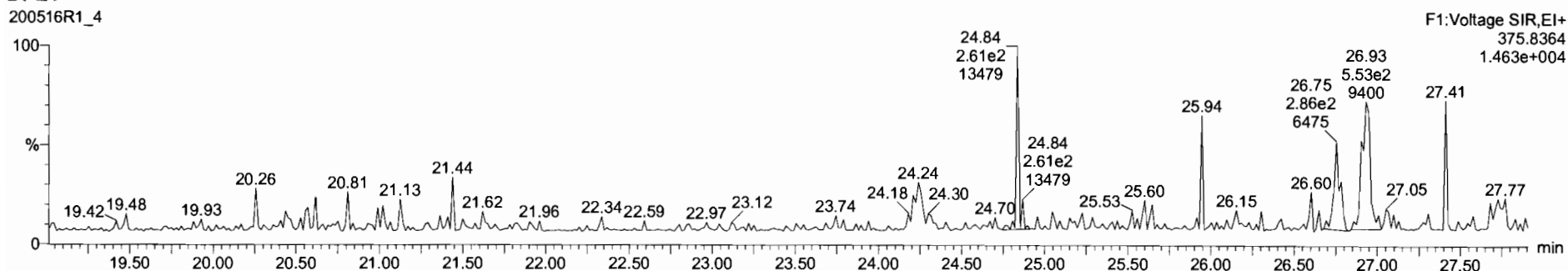
2,3,7,8-TCDF



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

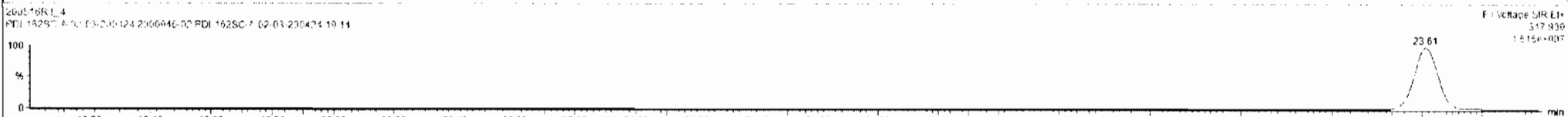
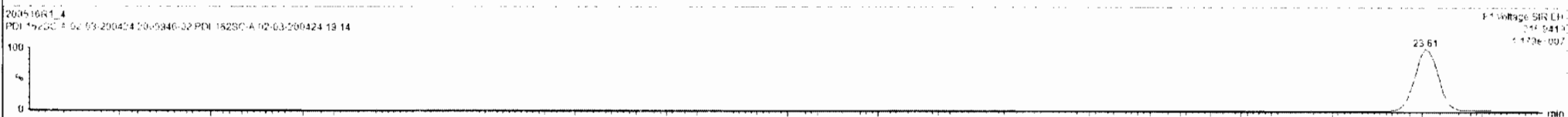
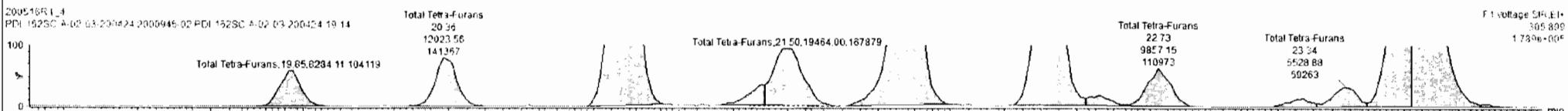
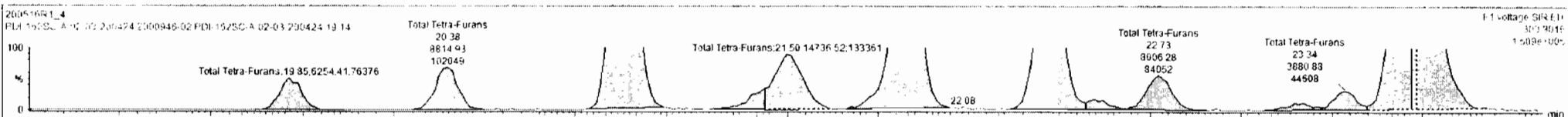


DPE1



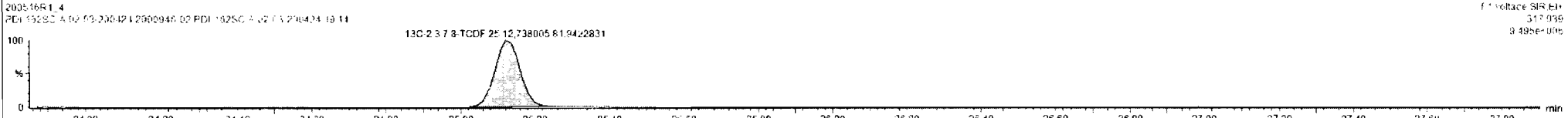
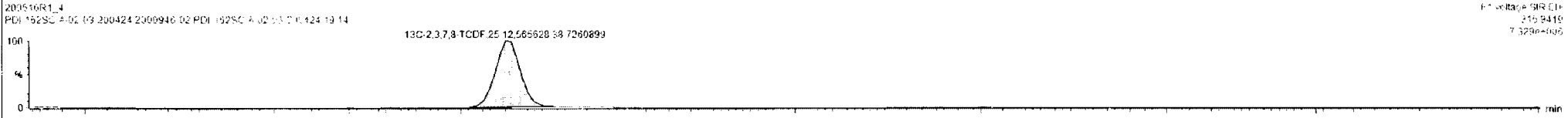
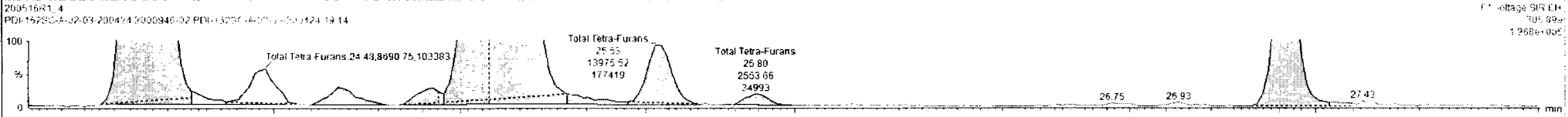
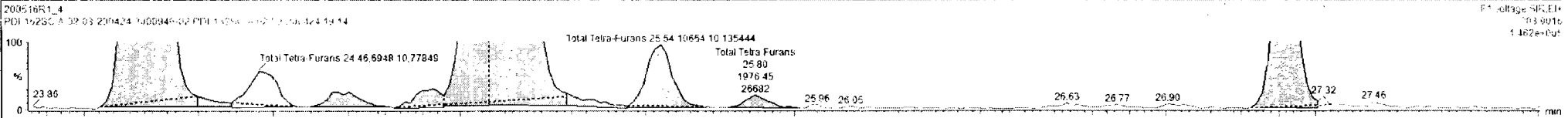
Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	QL	EMPC
42 Total Hepta-Dioxins				0.8575	10.305			1040		0.630	1040
43 Total Tetra-Furans				0.7871	16.308			314		0.276	316

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	19.35	6.254e3	6.204e3	0.75	NO	2.7496	2.7496
2 Total Tetra-Furans	20.36	6.815e3	1.202e4	0.73	NO	3.5411	3.5411
3 Total Tetra-Furans	20.96	6.562e4	8.825e4	0.74	NO	26.101	26.101
4 Total Tetra-Furans	21.42	2.967e3	3.889e3	0.74	NO	1.2777	1.2777
5 Total Tetra-Furans	21.50	1.474e4	1.946e4	0.76	NO	5.4621	6.4681
6 Total Tetra-Furans	21.89	5.710e4	7.821e4	0.73	NO	25.589	25.545
7 Total Tetra-Furans	22.37	4.015e4	5.315e4	0.76	NO	17.646	17.646
8 Total Tetra-Furans	22.52	1.881e3	2.420e3	0.76	NO	0.81337	0.81337
9 Total Tetra-Furans	22.73	8.506e3	9.857e3	0.61	NO	3.3754	3.1784
10 Total Tetra-Furans	23.21	1.704e3	2.187e3	0.78	NO	0.73594	0.73594
11 Total Tetra-Furans	23.34	3.521e3	5.529e3	0.70	NO	1.7796	1.7796
12 Total Tetra-Furans	23.55	2.664e4	3.588e4	0.74	NO	11.825	11.825
13 Total Tetra-Furans	23.62	3.754e4	5.145e4	0.72	NO	16.988	16.808



Name	Recap	RA	n _y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Tetra-Furans				0.8975	10.306			1040		0.630	1040
43 Total Tetra-Furans				0.7871	10.306			320		0.276	320

Name	RT	m1 Resp	m2 Resp	RA	n _y	EMPC	Conc
14 Total Tetra-Furans	24.16	1.754e5	2.375e5	0.75	NO	77.142	77.142
15 Total Tetra-Furans	24.30	1.364e2	1.897e3	0.72	NO	0.61662	0.61662
16 Total Tetra-Furans	24.46	6.346e3	8.691e3	0.80	NO	2.9677	2.9677
17 Total Tetra-Furans	24.67	3.065e3	4.654e3	0.66	NO	1.4718	1.4718
18 Total Tetra-Furans	24.93	3.245e3	3.869e3	0.85	NO	1.3340	1.3340
19 Total Tetra-Furans	25.03	2.997e4	4.174e4	0.72	NO	13.501	13.501
20 2,3,7,8-TCDF	25.15	1.816e5	2.420e5	0.75	NO	80.160	80.160
21 Total Tetra-Furans	25.29	2.712e3	2.670e3	0.77	NO	0.96100	0.96100
22 Total Tetra-Furans	25.54	1.965e4	1.395e4	0.76	NO	4.6581	4.6581
23 Total Tetra-Furans	25.60	1.976e3	2.564e3	0.77	NO	0.85675	0.85675
24 Total Tetra-Furans	27.22	3.482e4	3.984e4	0.87	NO	14.121	14.121



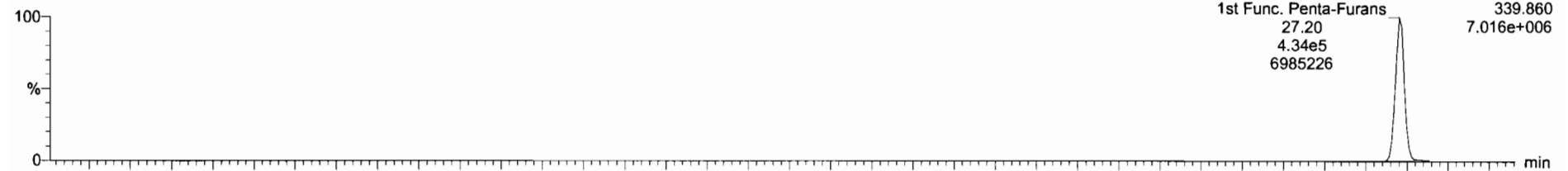
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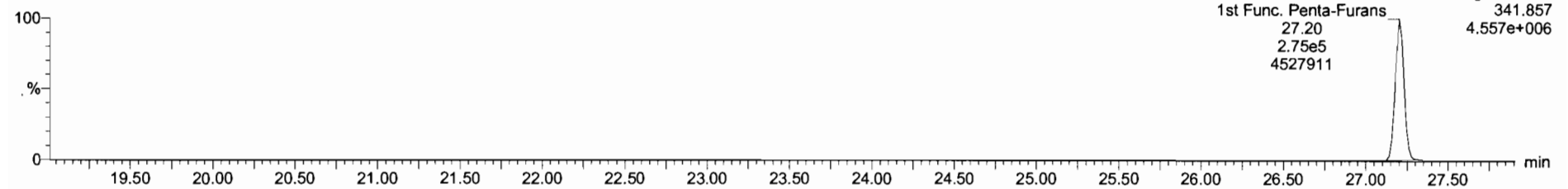
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1st Func. Penta-Furans

200516R1_4

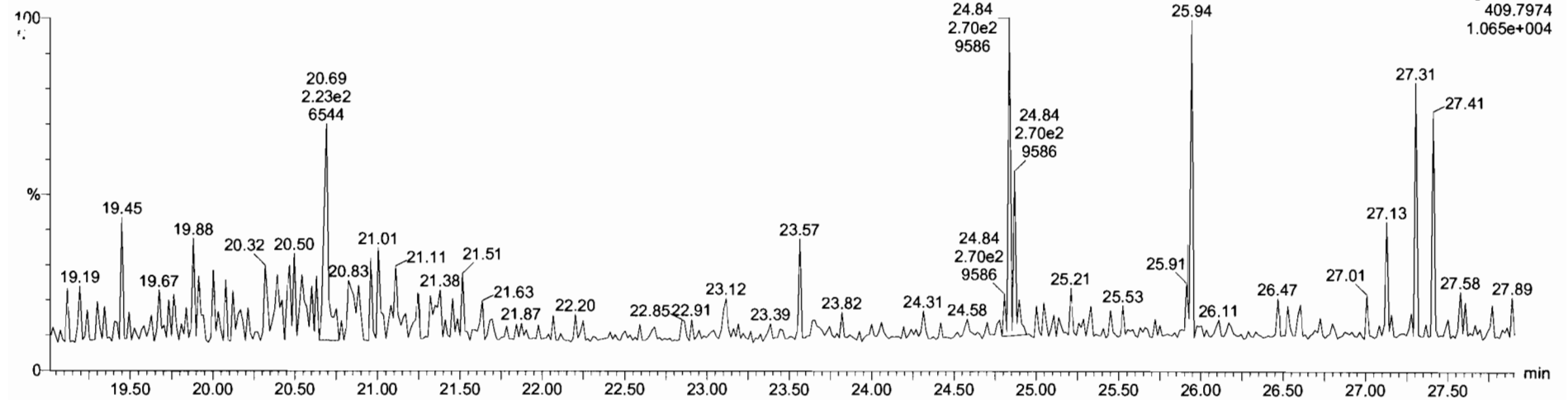


200516R1_4



DPE6

200516R1_4



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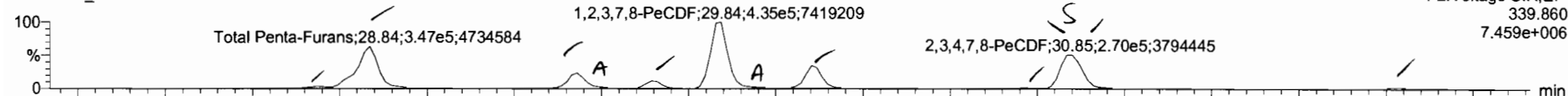
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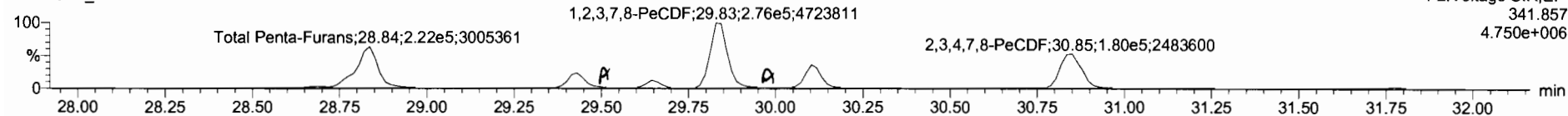
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1,2,3,7,8-PeCDF

200516R1_4

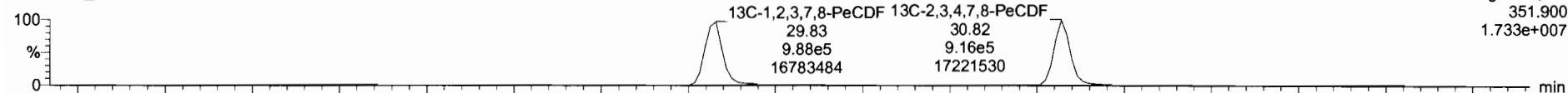


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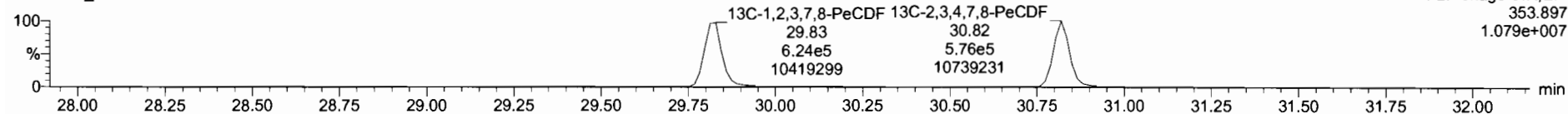


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200516R1_4

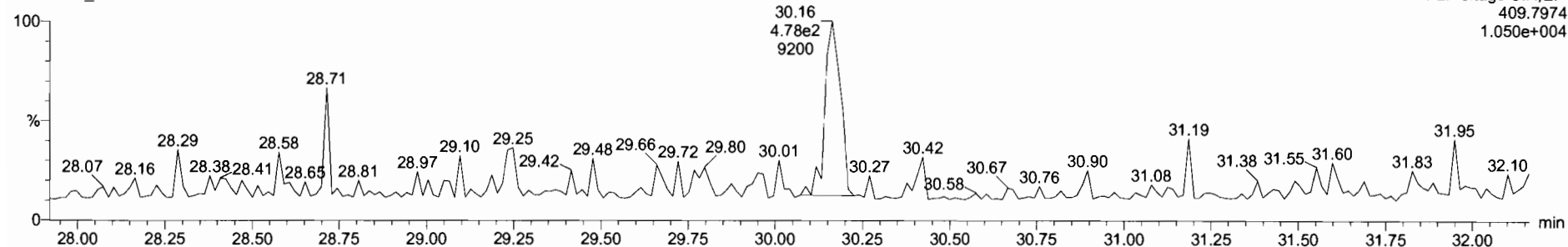


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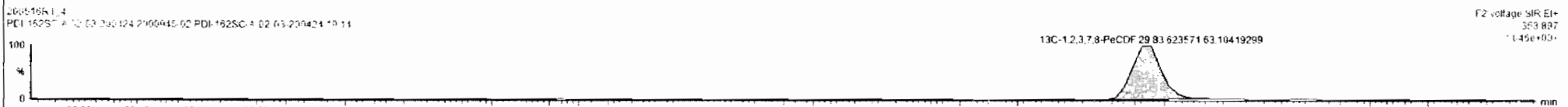
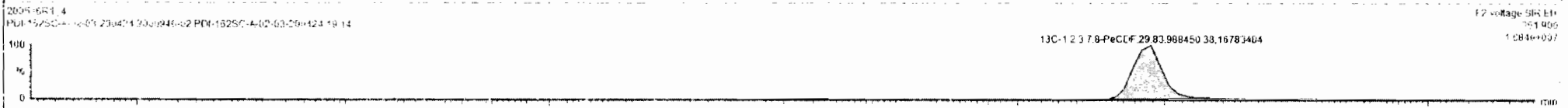
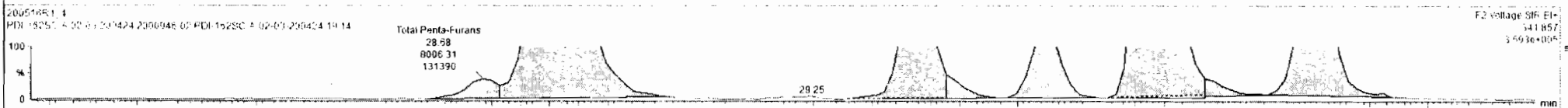
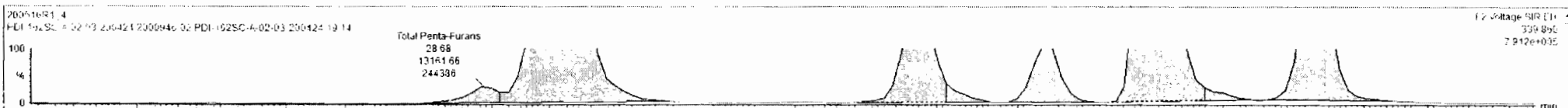
DPE2

200516R1_4



Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.308			261	0.234	207	
46 Total Hexa-Furans				0.6217	10.308			491		0.320	493

Name	RT	m1 Resp	m2 Resp	PA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.68	1.311e4	8.006e3	1.64	NO	7.9673	2.9673
2 Total Penta-Furans	28.84	3.467e5	2.219e5	1.56	NO	76.094	76.094
3 Total Penta-Furans	29.43	9.884e4	6.117e4	1.58	NO	21.702	0.00000
4 Total Penta-Furans	29.48	7.990e3	5.211e3	1.53	NO	1.8131	0.00000
5 Total Penta-Furans	26.65	4.546e4	2.901e4	1.57	NO	10.225	10.228
6 1,2,3,7,8-PeCDF	29.84	4.289e5	2.743e5	1.56	NO	93.016	92.016
7 Total Penta-Furans	29.92	7.181e3	4.762e3	1.51	NO	1.6402	1.6402
8 Total Penta-Furans	30.10	1.420e5	9.101e4	1.55	NO	32.106	32.106
9 Total Penta-Furans	30.62	6.969e2	5.743e2	1.21	YES	0.15748	0.00000
10 Total Penta-Furans	30.73	2.147e3	3.785e2	0.57	YES	0.46567	0.00000
11 2,3,4,7,8-PeCDF	30.85	2.701e5	1.790e5	1.50	NO	60.540	60.540
12 Total Penta-Furans	31.16	6.407e2	6.225e2	1.03	YES	0.14477	0.00000
13 Total Penta-Furans	31.73	1.146e4	6.974e3	1.64	NO	2.5315	2.5315
14 Total Penta-Furans	31.90	5.912e3	2.660e3	2.22	YES	0.93176	0.00000
15 Total Penta-Furans	32.03	1.816e3	8.110e2	2.24	YES	0.28405	0.00000



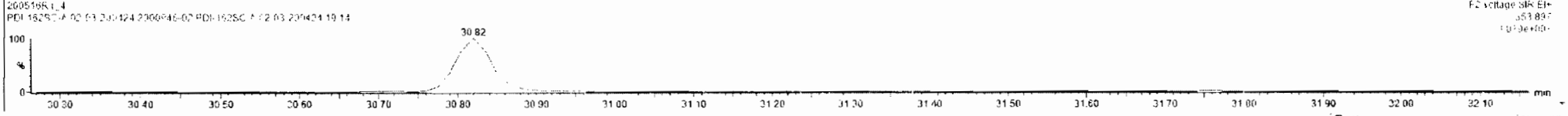
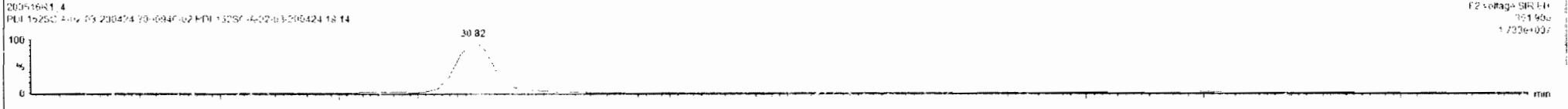
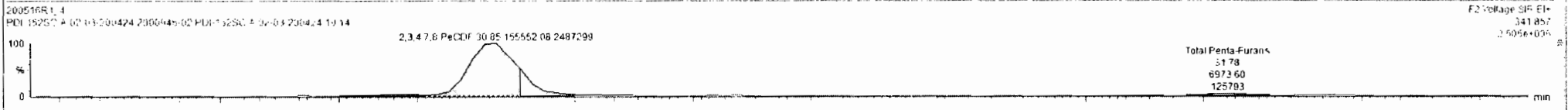
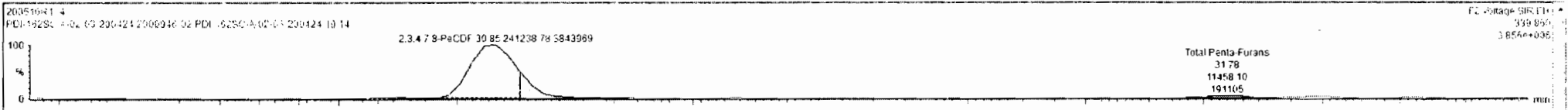
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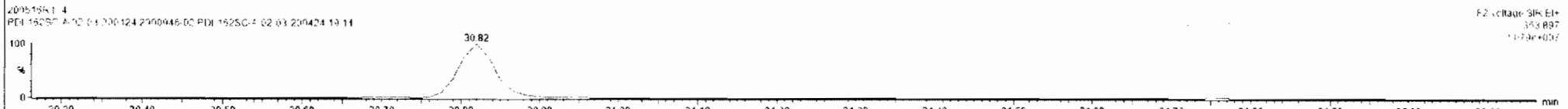
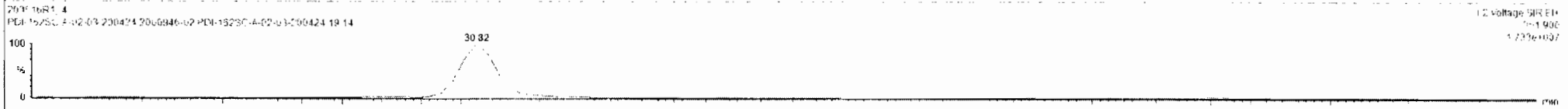
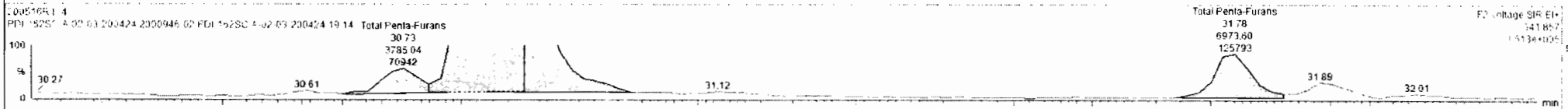
Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.306			284		0.234	306
46 Total Hexa-Furans				0.9217	10.306			481		0.320	453

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.50	1.311e4	8.006e3	1.64	NO	2.5073	2.5073
2 Total Penta-Furans	28.84	3.487e5	2.219e5	1.56	NO	78.054	78.054
3 Total Penta-Furans	29.43	9.584e4	6.117e4	1.58	NO	21.702	9.00600
4 Total Penta-Furans	29.48	7.590e3	5.211e3	1.52	NO	1.8131	0.00000
5 Total Penta-Furans	29.65	4.140e4	2.901e4	1.57	NO	10.226	10.226
6 1,2,3,7,8-PeCDF	29.84	4.289e5	2.741e5	1.56	NO	83.016	92.016
7 Total Penta-Furans	29.92	7.181e3	4.762e3	1.51	NO	1.6402	1.6402
8 Total Penta-Furans	30.10	1.420e5	9.181e4	1.55	NO	32.108	32.108
9 Total Penta-Furans	30.73	5.957e3	3.785e3	1.56	NO	1.3422	1.3422
10 2,3,4,7,8-PeCDF	30.86	2.412e5	1.556e5	1.56	NO	53.384	53.384
11 Total Penta-Furans	30.88	3.972e4	2.557e4	1.55	NO	8.9684	8.9684
12 Total Penta-Furans	31.76	1.146e4	6.974e3	1.64	NO	2.5315	2.5315



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Chec	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.306			284		0.234	306
46 Total Hexa-Furans				0.9217	10.306			491		0.320	453

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Chec
1 Total Penta-Furans	28.66	1.311e4	8.006e3	1.64	NO	2.9073	2.9073
2 Total Penta-Furans	28.84	3.467e5	2.219e5	1.56	NO	78.094	78.094
3 Total Penta-Furans	29.43	9.684e4	6.117e4	1.58	NO	21.702	0.00000
4 Total Penta-Furans	29.48	7.990e3	5.211e3	1.53	NO	1.8131	0.00000
5 Total Penta-Furans	29.55	4.546e4	2.901e4	1.57	NO	10.228	10.228
6 1,2,3,7,8-PeCDF	29.84	4.289e5	2.743e5	1.56	NO	93.016	93.016
7 Total Penta-Furans	29.92	7.181e3	4.762e3	1.51	NO	1.6402	1.6402
8 Total Penta-Furans	30.10	1.420e5	9.181e4	1.55	NO	32.108	32.108
9 Total Penta-Furans	30.73	1.987e3	3.785e3	1.58	NO	1.3422	1.3422
10 1,2,3,4,7,8-PeCDF	30.85	2.412e5	1.556e5	1.56	NO	53.384	53.384
11 Total Penta-Furans	30.88	2.973e4	2.557e4	1.55	NO	8.9684	8.9684
12 Total Penta-Furans	31.78	1.146e4	6.974e3	1.64	NO	2.5315	2.5315

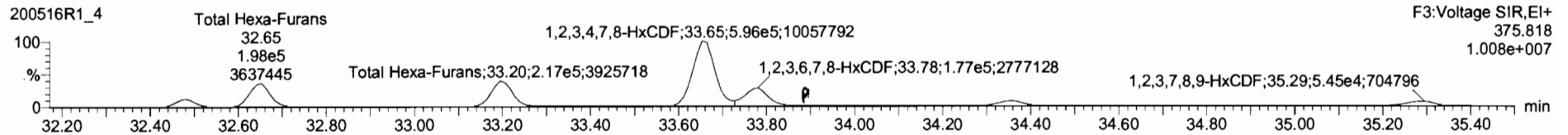
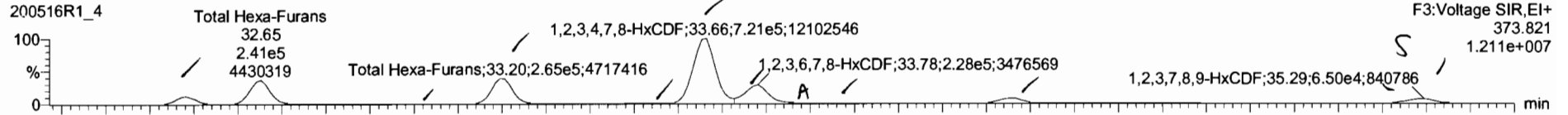


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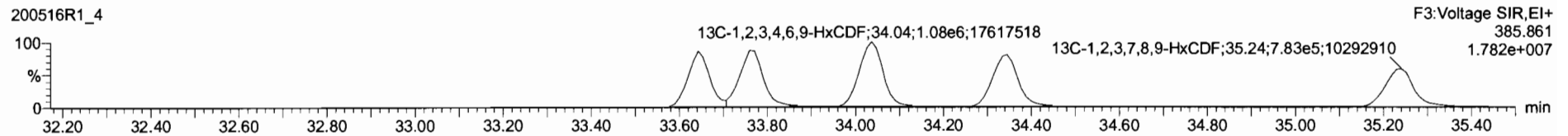
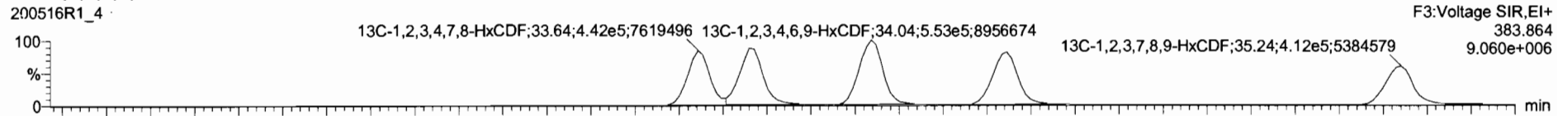
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Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

Name: 200516R1_4, Date: 16-May-2020, Time: 11:30:44, ID: 2000946-02 PDI-162SC-A-02-03-200424 19.14, Description: PDI-162SC-A-02-03-200424

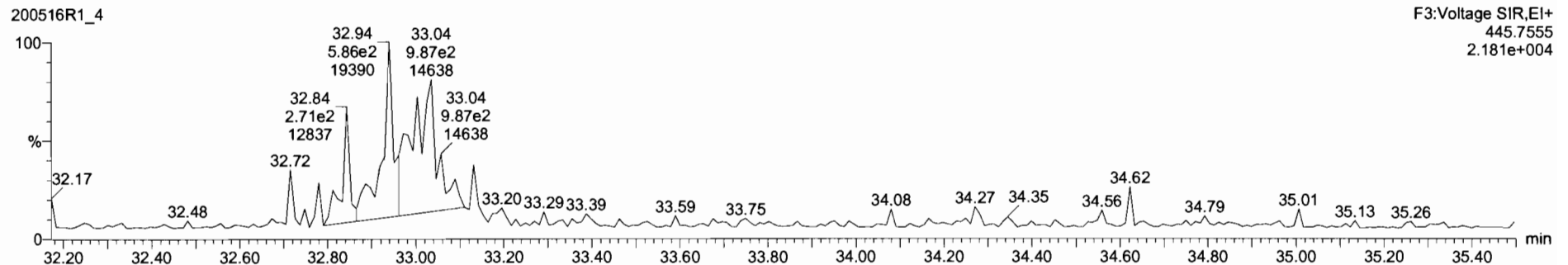
1,2,3,4,7,8-HxCDF



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

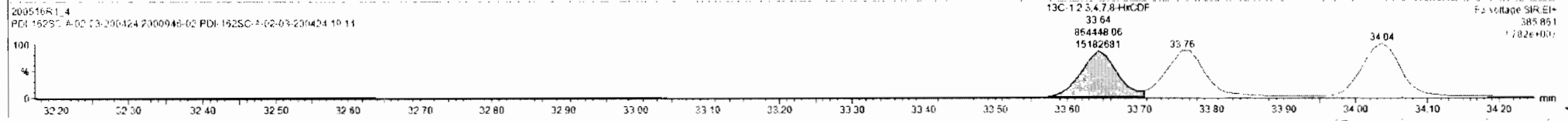
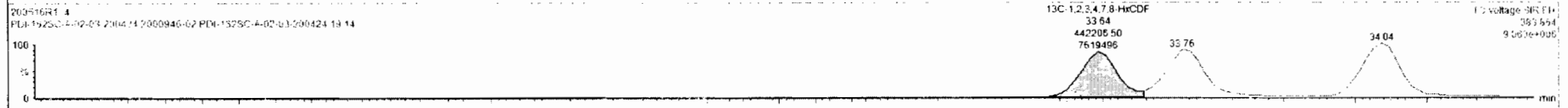
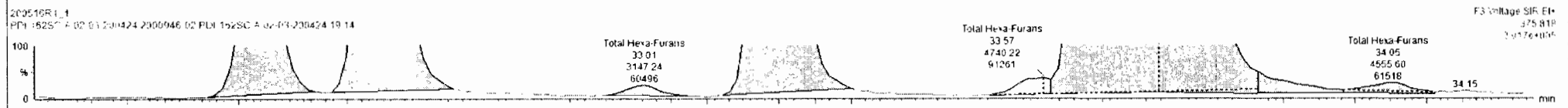
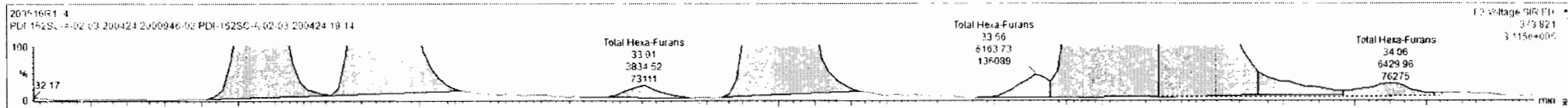


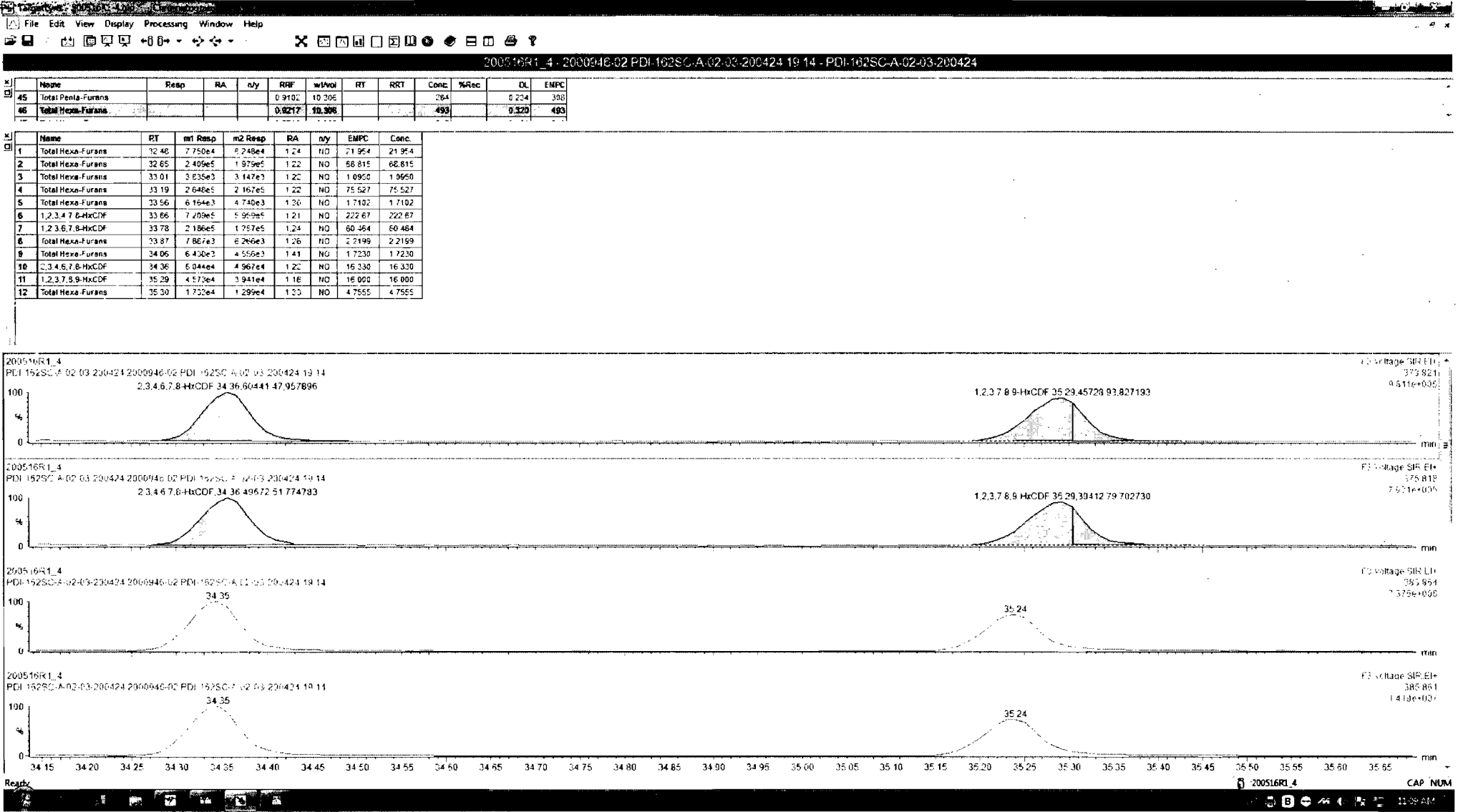
DPE3



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Hexa-Furans				0.9102	10.306			364	0.224	306	
46 Total Hexa-Furans				0.9217	10.306			495	0.320	495	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	12.46	7.750e4	6.248e4	1.24	NO	21.954	21.954
2 Total Hexa-Furans	32.65	2.409e5	1.979e5	1.22	NO	68.815	68.815
3 Total Hexa-Furans	33.01	3.835e3	3.147e3	1.22	NO	1.0950	1.0950
4 Total Hexa-Furans	33.19	2.648e5	2.167e5	1.22	NO	75.527	75.527
5 Total Hexa-Furans	33.56	6.164e3	4.740e3	1.26	NO	1.7102	1.7102
6 1,2,3,4,7,8-HxCDF	33.66	7.209e5	5.959e5	1.21	NO	222.67	222.67
7 1,2,3,6,7,8-HxCDF	33.78	2.186e5	1.757e5	1.24	NO	66.464	66.464
8 Total Hexa-Furans	33.87	7.867e3	6.266e3	1.26	NO	2.2199	2.2199
9 Total Hexa-Furans	34.06	6.430e3	4.556e3	1.41	NO	1.7230	1.7230
10 1,2,3,4,6,7,8-HxCDF	34.36	6.044e4	4.967e4	1.22	NO	16.330	16.330
11 1,2,3,7,6,9-HxCDF	35.29	6.502e4	5.446e4	1.19	NO	22.453	22.453



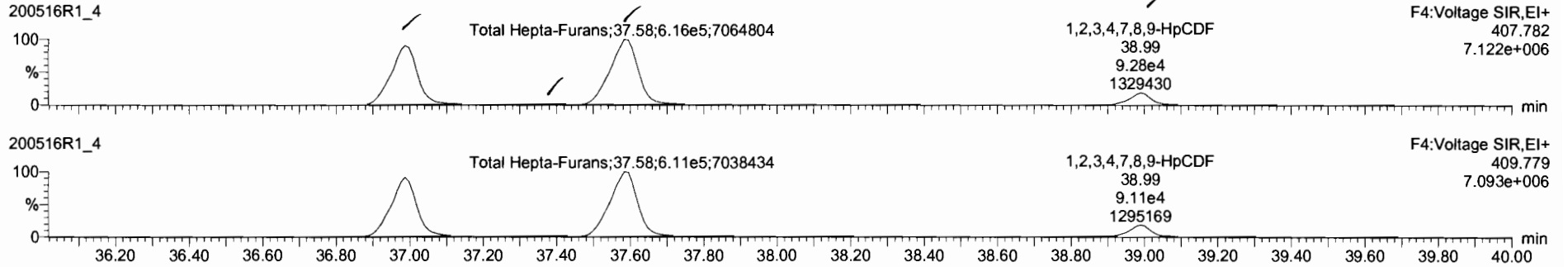


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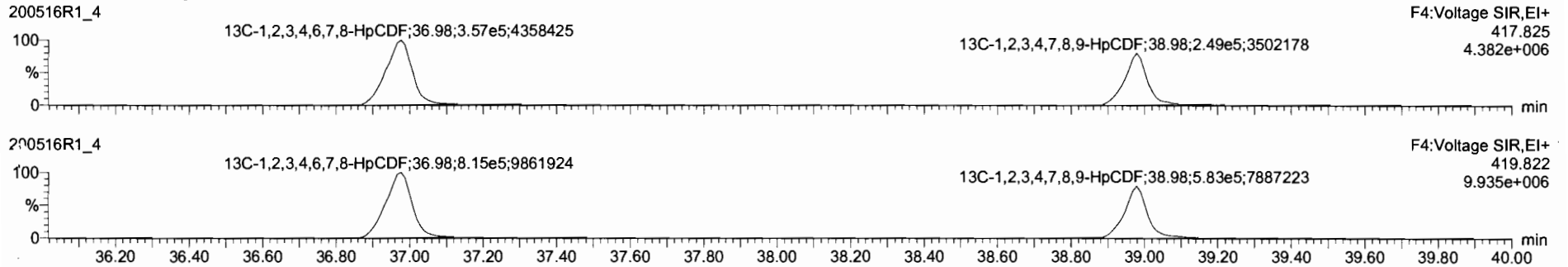
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Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

Name: 200516R1_4, Date: 16-May-2020, Time: 11:30:44, ID: 2000946-02 PDI-162SC-A-02-03-200424 19.14, Description: PDI-162SC-A-02-03-200424

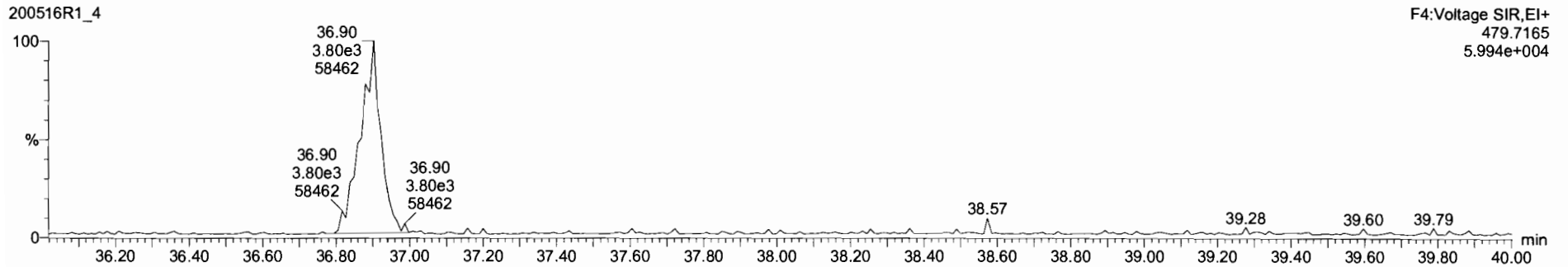
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13C-1,2,3,4,6,7,8-HpCDF

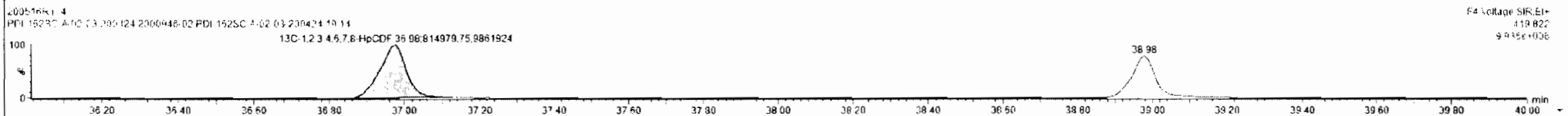
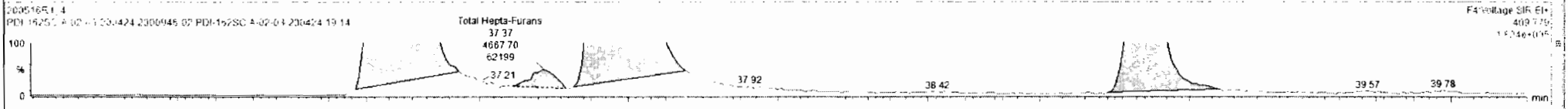
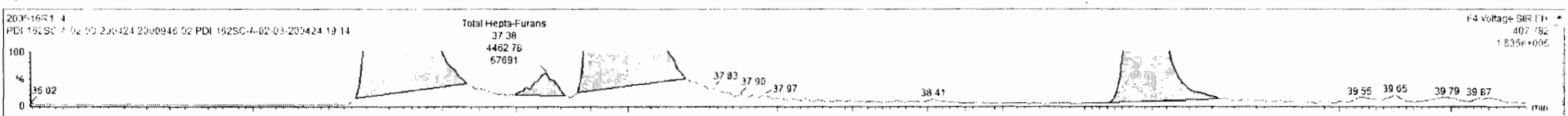


DPE4



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.30E			264		0.224	308
46 Total Hexa-Furans				0.9217	10.30E			492		0.320	493

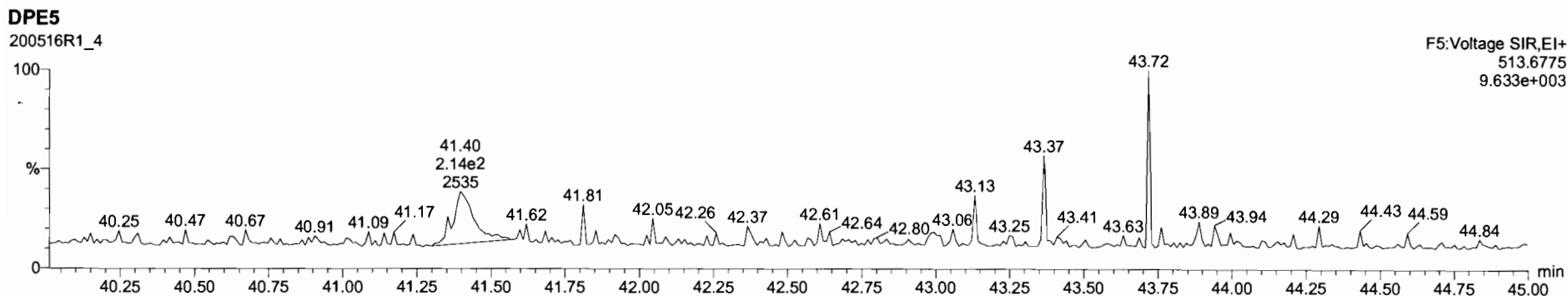
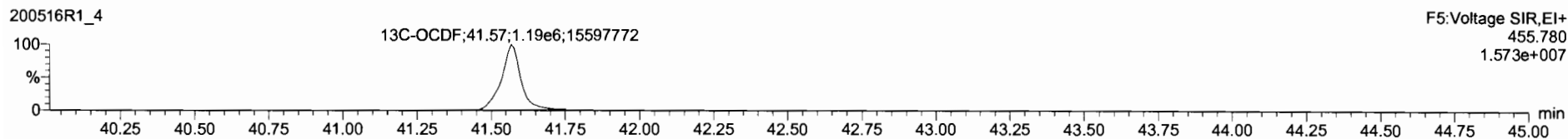
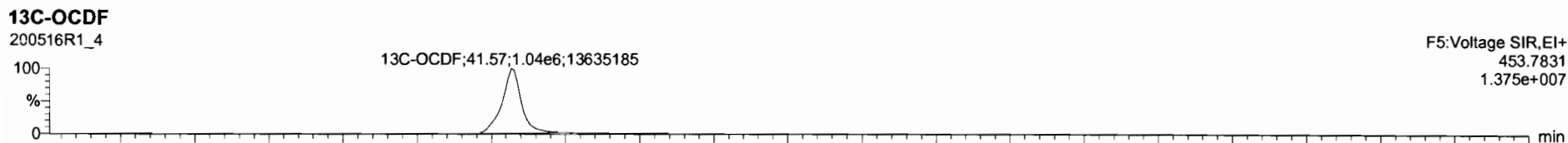
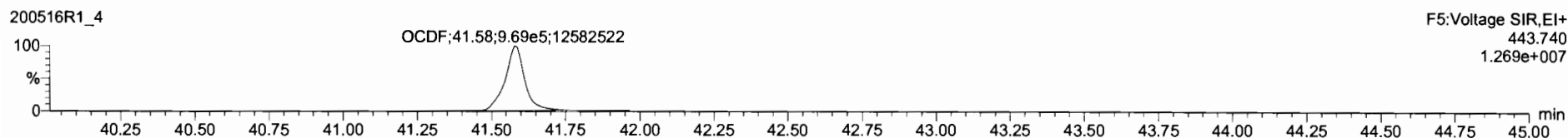
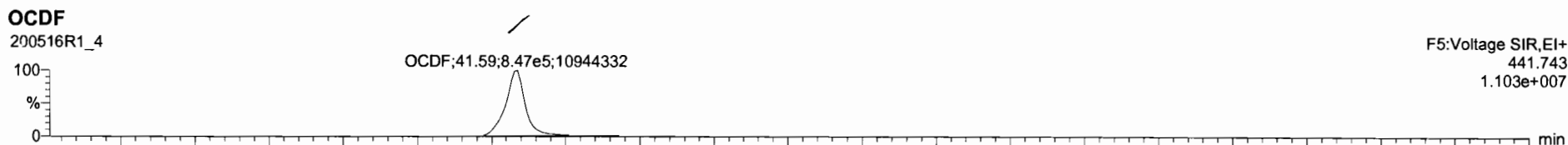
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.99	5.274e5	5.164e5	1.02	NO	199.14	198.44
2 Total Hepta-Furans	37.38	4.462e3	4.668e3	0.96	NO	2.0297	2.0297
3 Total Hepta-Furans	37.58	6.156e5	6.106e5	1.01	NO	272.59	272.55
4 1,2,3,4,7,8,9-HpCDF	38.99	9.283e4	9.106e4	1.02	NO	42.378	42.378



Dataset: Untitled

Last Altered: Monday, May 18, 2020 07:36:56 Pacific Daylight Time
Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

Name: 200516R1_4, Date: 16-May-2020, Time: 11:30:44, ID: 2000946-02 PDI-162SC-A-02-03-200424 19.14, Description: PDI-162SC-A-02-03-200424

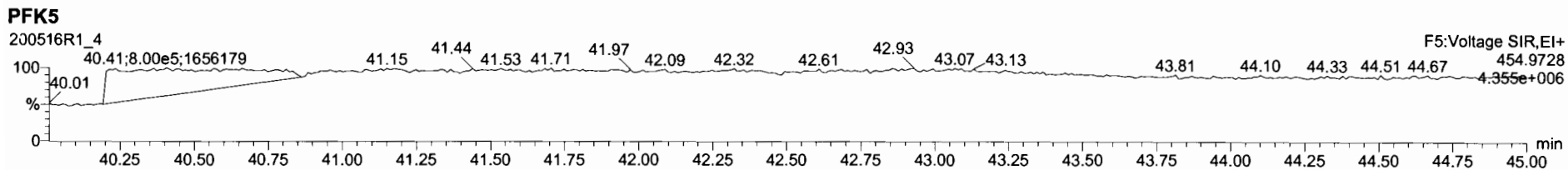
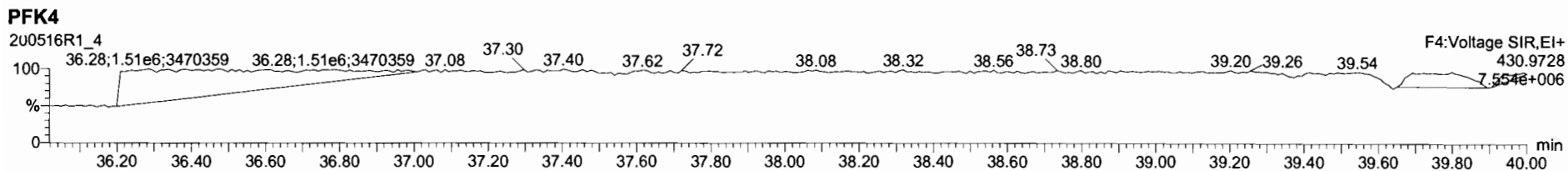
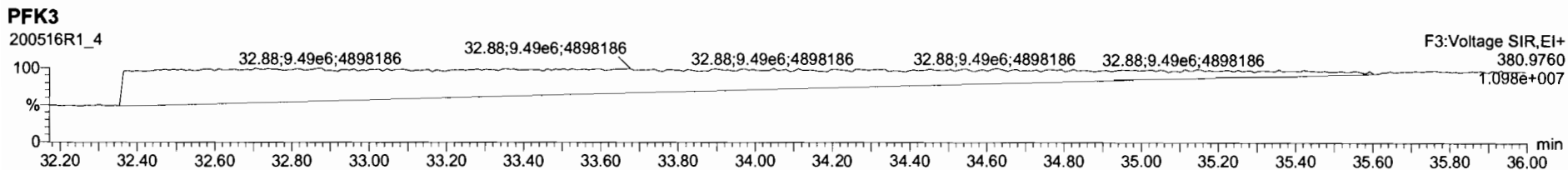
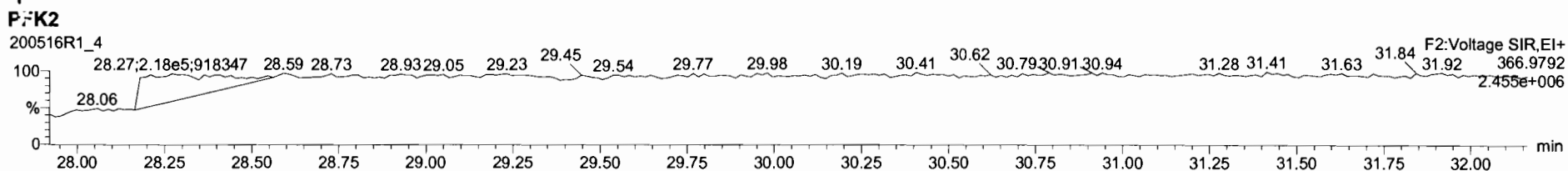
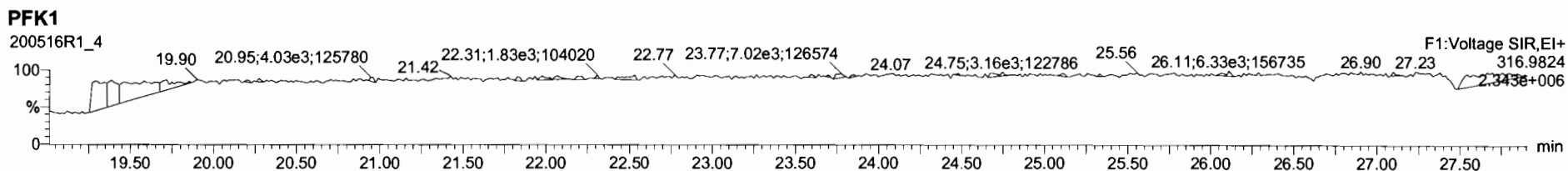


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Name: 200516R1_4, Date: 16-May-2020, Time: 11:30:44, ID: 2000946-02 PDI-162SC-A-02-03-200424 19.14, Description: PDI-162SC-A-02-03-200424



Dataset: U:\VG12.PRO\Results\200516R1\200516R1-5.qld

Last Altered: Monday, May 18, 2020 11:41:42 Pacific Daylight Time
Printed: Monday, May 18, 2020 11:42:20 Pacific Daylight Time

GRB 05/18/2020

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: 200516R1_5, Date: 16-May-2020, Time: 12:16:55, ID: 2000946-03 PDI-162SC-A-03-04-200424 13.48, Description: PDI-162SC-A-03-04-200424

	# 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	2.27e3	0.47	YES	0.947	10.912	26.096	26.09	1.001	1.001	0.24389		0.0653	0.178
2	2 1,2,3,7,8-PeCDD	1.95e3	0.58	NO	0.942	10.912	31.177	31.16	1.001	1.000	0.23430		0.0648	0.234
3	3 1,2,3,4,7,8-HxCDD	1.28e3	1.39	NO	1.06	10.912	34.537	34.55	1.000	1.001	0.17583		0.0711	0.176
4	4 1,2,3,6,7,8-HxCDD	7.78e3	1.21	NO	0.915	10.912	34.633	34.64	1.000	1.000	1.0095		0.0742	1.01
5	5 1,2,3,7,8,9-HxCDD	3.50e3	1.22	NO	0.915	10.912	34.910	34.92	1.000	1.001	0.48513		0.0808	0.485
6	6 1,2,3,4,6,7,8-HpCDD	1.29e5	1.01	NO	0.898	10.912	38.426	38.42	1.000	1.000	23.434		0.164	23.4
7	7 OCDD	1.50e6	0.92	NO	0.933	10.912	41.386	41.40	1.000	1.000	311.69		0.202	312
8	8 2,3,7,8-TCDF	4.05e4	0.75	NO	0.787	10.912	25.161	25.17	1.001	1.001	4.4107	JK	0.105	4.41
9	9 1,2,3,7,8-PeCDF	6.09e4	1.61	NO	0.910	10.912	29.864	29.86	1.001	1.001	5.4428		0.0826	5.44
10	10 2,3,4,7,8-PeCDF	3.35e4	1.43	NO	0.966	10.912	30.866	30.87	1.001	1.001	2.9634		0.0772	2.96
11	11 1,2,3,4,7,8-HxCDF	1.01e5	1.20	NO	0.878	10.912	33.664	33.67	1.000	1.000	12.998		0.0620	13.0
12	12 1,2,3,6,7,8-HxCDF	6.27e4	1.23	NO	0.874	10.912	33.791	33.80	1.000	1.001	7.4942		0.0612	7.49
13	13 2,3,4,6,7,8-HxCDF	1.52e4	1.25	NO	0.922	10.912	34.390	34.38	1.001	1.001	1.8192		0.0633	1.82
14	14 1,2,3,7,8,9-HxCDF	7.10e3	1.26	NO	0.864	10.912	35.251	35.30	1.000	1.002	1.0764		0.0884	1.08
15	15 1,2,3,4,6,7,8-HpCDF	1.72e5	1.02	NO	0.871	10.912	37.024	37.01	1.001	1.001	28.128		0.115	28.1
16	16 1,2,3,4,7,8,9-HpCDF	1.32e4	0.95	NO	1.01	10.912	38.989	39.00	1.000	1.000	2.6988		0.131	2.70
17	17 OCDF	1.16e5	0.86	NO	0.802	10.912	41.577	41.59	1.000	1.000	24.567		0.112	24.6
18	18 13C-2,3,7,8-TCDD	1.80e6	0.78	NO	1.16	10.912	26.061	26.07	1.026	1.027	163.16	89.0	0.153	
19	19 13C-1,2,3,7,8-PeCDD	1.62e6	0.64	NO	0.847	10.912	31.160	31.16	1.227	1.227	200.71	110	0.216	
20	20 13C-1,2,3,4,7,8-HxCDD	1.26e6	1.27	NO	0.750	10.912	34.538	34.53	1.014	1.014	180.85	98.7	0.290	
21	21 13C-1,2,3,6,7,8-HxCDD	1.54e6	1.27	NO	0.963	10.912	34.651	34.63	1.017	1.017	172.92	94.3	0.226	
22	22 13C-1,2,3,7,8,9-HxCDD	1.45e6	1.22	NO	0.838	10.912	34.920	34.90	1.025	1.025	186.22	102	0.260	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.12e6	1.08	NO	0.641	10.912	38.414	38.41	1.128	1.128	188.88	103	0.302	
24	24 13C-OCDD	1.89e6	0.94	NO	0.586	10.912	41.411	41.39	1.216	1.215	348.00	94.9	0.257	
25	25 13C-2,3,7,8-TCDF	2.14e6	0.78	NO	1.03	10.912	25.119	25.14	0.989	0.990	152.16	83.0	0.204	
26	26 13C-1,2,3,7,8-PeCDF	2.25e6	1.60	NO	0.845	10.912	29.847	29.84	1.176	1.175	196.16	107	0.361	
27	27 13C-2,3,4,7,8-PeCDF	2.15e6	1.58	NO	0.814	10.912	30.840	30.83	1.215	1.214	194.02	106	0.374	
28	28 13C-1,2,3,4,7,8-HxCDF	1.63e6	0.51	NO	1.00	10.912	33.677	33.66	0.989	0.988	174.49	95.2	0.208	
29	29 13C-1,2,3,6,7,8-HxCDF	1.75e6	0.51	NO	1.14	10.912	33.799	33.78	0.992	0.992	166.42	90.8	0.184	
30	30 13C-2,3,4,6,7,8-HxCDF	1.67e6	0.51	NO	1.02	10.912	34.368	34.36	1.009	1.009	175.69	95.9	0.205	
31	31 13C-1,2,3,7,8,9-HxCDF	1.40e6	0.51	NO	0.845	10.912	35.260	35.25	1.035	1.035	178.62	97.5	0.248	

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-5.qld

Last Altered: Monday, May 18, 2020 11:41:42 Pacific Daylight Time
Printed: Monday, May 18, 2020 11:42:20 Pacific Daylight Time

Name: 200516R1_5, Date: 16-May-2020, Time: 12:16:55, ID: 2000946-03 PDI-162SC-A-03-04-200424 13.48, Description: PDI-162SC-A-03-04-200424

#	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	1.28e6	0.42	NO	0.771	10.912	36.994	36.99	1.086	1.086	179.41	97.9	0.228	
33	33 13C-1,2,3,4,7,8,9-HpCDF	8.83e5	0.44	NO	0.482	10.912	39.007	38.99	1.145	1.145	197.46	108	0.365	
34	34 13C-OCDF	2.15e6	0.88	NO	0.669	10.912	41.581	41.58	1.221	1.221	346.81	94.6	0.334	
35	35 37Cl-2,3,7,8-TCDD	7.06e5			1.10	10.912	26.092	26.09	1.028	1.028	67.442	92.0	0.0721	
36	36 13C-1,2,3,4-TCDD	1.75e6	0.79	NO	1.00	10.912	25.350	25.39	1.000	1.000	183.28	100	0.178	
37	37 13C-1,2,3,4-TCDF	2.49e6	0.78	NO	1.00	10.912	23.560	23.61	1.000	1.000	183.28	100	0.211	
38	38 13C-1,2,3,4,6,9-HxCDF	1.70e6	0.51	NO	1.00	10.912	34.000	34.06	1.000	1.000	183.28	100	0.209	
39	39 Total Tetra-Dioxins				0.947	10.912	24.620		0.000		0.77843		0.0653	1.09
40	40 Total Penta-Dioxins				0.942	10.912	29.960		0.000		1.9961		0.0648	2.29
41	41 Total Hexa-Dioxins				0.915	10.912	33.635		0.000		9.9892		0.0790	9.99
42	42 Total Hepta-Dioxins				0.898	10.912	37.640		0.000		57.700		0.164	57.7
43	43 Total Tetra-Furans				0.787	10.912	23.610		0.000		18.464		0.105	18.5
44	44 1st Func. Penta-Furans				0.910	10.912	27.090		0.000		8.2425		0.0221	8.24
45	45 Total Penta-Furans				0.910	10.912	29.275		0.000		17.900		0.0823	18.0
46	46 Total Hexa-Furans				0.922	10.912	33.555		0.000		43.473		0.0650	43.5
47	47 Total Hepta-Furans				0.871	10.912	37.835		0.000		58.164		0.130	58.2

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-5.qld

Last Altered: Monday, May 18, 2020 11:41:42 Pacific Daylight Time

Printed: Monday, May 18, 2020 11:42:20 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: 200516R1_5, Date: 16-May-2020, Time: 12:16:55, ID: 2000946-03 PDI-162SC-A-03-04-200424 13.48, Description: PDI-162SC-A-03-04-200424

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.93	2.197e4	3.022e4	2.287e3	2.837e3	0.81	NO	5.124e3	0.55008	0.55008	0.0653
2	Total Tetra-Dioxins	22.34	7.666e3	7.170e3	6.318e2	6.780e2	0.93	YES	0.000e0	0.00000	0.12882	0.0653
3	Total Tetra-Dioxins	23.82	1.105e4	1.533e4	9.094e2	1.218e3	0.75	NO	2.127e3	0.22835	0.22835	0.0653
4	2,3,7,8-TCDD	26.09	1.100e4	2.664e4	7.220e2	1.547e3	0.47	YES	2.269e3	0.00000	0.17816	0.0653

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.91	2.937e4	4.826e4	2.257e3	3.664e3	0.62	NO	5.921e3	0.71093	0.71093	0.0648
2	Total Penta-Dioxins	29.39	1.135e4	2.040e4	7.518e2	1.301e3	0.58	NO	2.052e3	0.24643	0.24643	0.0648
3	Total Penta-Dioxins	29.90	2.139e4	4.355e4	1.641e3	2.324e3	0.71	NO	3.965e3	0.47608	0.47608	0.0648
4	Total Penta-Dioxins	30.07	9.257e3	1.910e4	5.198e2	9.390e2	0.55	NO	1.459e3	0.17515	0.17515	0.0648
5	Total Penta-Dioxins	30.15	8.753e3	1.540e4	4.580e2	8.178e2	0.56	NO	1.276e3	0.15318	0.15318	0.0648
6	Total Penta-Dioxins	30.38	9.752e3	2.075e4	5.623e2	8.722e2	0.64	NO	0.000e0	0.00000	0.17223	0.0648
7	Total Penta-Dioxins	30.42	8.212e3	1.446e4	3.529e2	6.579e2	0.54	NO	0.000e0	0.00000	0.12136	0.0648
8	1,2,3,7,8-PeCDD	31.16	1.254e4	2.270e4	7.145e2	1.237e3	0.58	NO	1.951e3	0.23430	0.23430	0.0648

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.06	3.023e5	2.394e5	1.470e4	1.209e4	1.22	NO	2.679e4	3.7905	3.7905	0.0790
2	Total Hexa-Dioxins	33.61	3.367e4	2.786e4	1.942e3	1.592e3	1.22	NO	3.533e3	0.49990	0.49990	0.0790
3	Total Hexa-Dioxins	33.87	2.299e5	1.771e5	1.454e4	1.121e4	1.30	NO	2.576e4	3.6440	3.6440	0.0790
4	Total Hexa-Dioxins	33.96	1.585e4	1.378e4	8.360e2	7.095e2	1.18	NO	1.545e3	0.21865	0.21865	0.0790
5	1,2,3,4,7,8-HxCDD	34.55	1.321e4	1.028e4	7.459e2	5.384e2	1.39	NO	1.284e3	0.17583	0.17583	0.0711
6	1,2,3,6,7,8-HxCDD	34.64	7.095e4	6.689e4	4.264e3	3.518e3	1.21	NO	7.782e3	1.0095	1.0095	0.0742
7	Total Hexa-Dioxins	34.83	1.049e4	9.478e3	6.369e2	5.345e2	1.19	NO	1.171e3	0.16572	0.16572	0.0790
8	1,2,3,7,8,9-HxCDD	34.92	3.456e4	2.584e4	1.929e3	1.575e3	1.22	NO	3.504e3	0.48513	0.48513	0.0808

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Dataset: U:\VG12.PRO\Results\200516R1\200516R1-5.qld

Last Altered: Monday, May 18, 2020 11:41:42 Pacific Daylight Time

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Name: 200516R1_5, Date: 16-May-2020, Time: 12:16:55, ID: 2000946-03 PDI-162SC-A-03-04-200424 13.48, Description: PDI-162SC-A-03-04-200424

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.39	1.397e6	1.382e6	9.583e4	9.285e4	1.03	NO	1.887e5	34.265	34.265	0.164
2	1,2,3,4,6,7,8-HpCDD	38.42	9.619e5	9.572e5	6.492e4	6.412e4	1.01	NO	1.290e5	23.434	23.434	0.164

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	8.887e3	1.027e4	5.853e2	7.369e2	0.79	NO	1.322e3	0.14390	0.14390	0.105
2	Total Tetra-Furans	20.38	1.401e4	1.994e4	1.181e3	1.446e3	0.82	NO	2.627e3	0.28590	0.28590	0.105
3	Total Tetra-Furans	20.96	9.089e4	1.289e5	8.097e3	1.073e4	0.75	NO	1.883e4	2.0490	2.0490	0.105
4	Total Tetra-Furans	21.36	4.271e3	5.130e3	2.702e2	3.279e2	0.82	NO	5.981e2	0.065099	0.065099	0.105
5	Total Tetra-Furans	21.50	1.519e4	1.554e4	1.666e3	1.901e3	0.88	NO	3.567e3	0.38820	0.38820	0.105
6	Total Tetra-Furans	21.87	6.236e4	7.624e4	5.903e3	7.411e3	0.80	NO	1.331e4	1.4491	1.4491	0.105
7	Total Tetra-Furans	22.37	4.797e4	6.689e4	4.395e3	6.178e3	0.71	NO	1.057e4	1.1508	1.1508	0.105
8	Total Tetra-Furans	22.50	4.374e3	6.072e3	3.408e2	4.873e2	0.70	NO	8.281e2	0.090129	0.090129	0.105
9	Total Tetra-Furans	22.73	1.272e4	1.547e4	1.177e3	1.401e3	0.84	NO	2.578e3	0.28056	0.28056	0.105
10	Total Tetra-Furans	23.34	5.953e3	6.256e3	4.193e2	5.552e2	0.76	NO	9.745e2	0.10606	0.10606	0.105
11	Total Tetra-Furans	23.53	4.057e4	4.906e4	2.990e3	3.839e3	0.78	NO	6.829e3	0.74323	0.74323	0.105
12	Total Tetra-Furans	23.61	4.844e4	4.998e4	4.020e3	5.182e3	0.78	NO	9.202e3	1.0015	1.0015	0.105
13	Total Tetra-Furans	24.18	2.010e5	2.514e5	1.626e4	2.121e4	0.77	NO	3.746e4	4.0774	4.0774	0.105
14	Total Tetra-Furans	24.48	8.664e3	1.288e4	6.641e2	9.093e2	0.73	NO	1.573e3	0.17125	0.17125	0.105
15	Total Tetra-Furans	24.69	3.822e3	8.809e3	3.839e2	5.387e2	0.71	NO	9.226e2	0.10041	0.10041	0.105
16	Total Tetra-Furans	24.90	5.009e3	5.885e3	2.786e2	3.286e2	0.85	NO	6.072e2	0.066086	0.066086	0.105
17	Total Tetra-Furans	25.03	4.373e4	6.145e4	2.923e3	3.930e3	0.74	NO	6.853e3	0.74583	0.74583	0.105
18	2,3,7,8-TCDF	25.17	2.145e5	2.944e5	1.736e4	2.317e4	0.75	NO	4.053e4	4.4107	4.4107	0.105
19	Total Tetra-Furans	25.57	1.654e4	2.279e4	1.237e3	1.534e3	0.81	NO	2.771e3	0.30163	0.30163	0.105
20	Total Tetra-Furans	25.78	4.177e3	6.571e3	3.501e2	3.792e2	0.92	YES	0.000e0	0.00000	0.073041	0.105
21	Total Tetra-Furans	27.23	6.076e4	6.351e4	3.474e3	4.217e3	0.82	NO	7.691e3	0.83706	0.83706	0.105

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	9.269e5	5.742e5	5.535e4	3.471e4	1.59	NO	9.005e4	8.2425	8.2425	0.0221

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-5.qld

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Name: 200516R1_5, Date: 16-May-2020, Time: 12:16:55, ID: 2000946-03 PDI-162SC-A-03-04-200424 13.48, Description: PDI-162SC-A-03-04-200424

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	3.284e4	2.034e4	1.707e3	1.067e3	1.60	NO	2.773e3	0.25385	0.25385	0.0823
2	Total Penta-Furans	28.85	4.600e5	2.949e5	3.269e4	2.069e4	1.58	NO	5.338e4	4.8854	4.8854	0.0823
3	Total Penta-Furans	29.45	1.563e5	9.693e4	8.885e3	6.117e3	1.45	NO	1.500e4	1.3731	1.3731	0.0823
4	Total Penta-Furans	29.51	1.792e4	1.183e4	6.554e2	3.770e2	1.74	NO	1.032e3	0.094496	0.094496	0.0823
5	Total Penta-Furans	29.68	6.354e4	3.728e4	3.477e3	2.073e3	1.68	NO	5.550e3	0.50801	0.50801	0.0823
6	1,2,3,7,8-PeCDF	29.86	6.828e5	4.270e5	3.757e4	2.333e4	1.61	NO	6.090e4	5.4428	5.4428	0.0826
7	Total Penta-Furans	30.13	1.812e5	1.261e5	1.056e4	7.321e3	1.44	NO	1.788e4	1.6369	1.6369	0.0823
8	Total Penta-Furans	30.73	9.685e3	1.214e4	5.564e2	6.888e2	0.81	YES	0.000e0	0.00000	0.083790	0.0823
9	2,3,4,7,8-PeCDF	30.87	3.235e5	2.318e5	1.973e4	1.382e4	1.43	NO	3.354e4	2.9634	2.9634	0.0772
10	Total Penta-Furans	30.90	1.986e5	1.210e5	3.844e3	2.600e3	1.48	NO	6.444e3	0.58980	0.58980	0.0823
11	Total Penta-Furans	31.80	1.993e4	1.033e4	1.057e3	6.001e2	1.76	NO	1.657e3	0.15168	0.15168	0.0823

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.50	2.466e5	2.072e5	1.208e4	1.030e4	1.17	NO	2.238e4	2.7604	2.7604	0.0650
2	Total Hexa-Furans	32.67	7.288e5	6.012e5	3.637e4	3.011e4	1.21	NO	6.648e4	8.2009	8.2009	0.0650
3	Total Hexa-Furans	33.03	8.621e3	9.896e3	5.787e2	4.456e2	1.30	NO	1.024e3	0.12637	0.12637	0.0650
4	Total Hexa-Furans	33.22	7.821e5	6.541e5	3.800e4	3.176e4	1.20	NO	6.976e4	8.6061	8.6061	0.0650
5	Total Hexa-Furans	33.58	1.569e4	1.251e4	7.777e2	6.615e2	1.18	NO	1.439e3	0.17755	0.17755	0.0650
6	1,2,3,4,7,8-HxCDF	33.67	1.133e6	9.327e5	5.523e4	4.607e4	1.20	NO	1.013e5	12.998	12.998	0.0620
7	1,2,3,6,7,8-HxCDF	33.80	6.237e5	5.028e5	3.461e4	2.811e4	1.23	NO	6.272e4	7.4942	7.4942	0.0612
8	2,3,4,6,7,8-HxCDF	34.38	1.531e5	1.221e5	8.461e3	6.783e3	1.25	NO	1.524e4	1.8192	1.8192	0.0633
9	1,2,3,7,8,9-HxCDF	35.30	6.254e4	5.034e4	3.959e3	3.145e3	1.26	NO	7.104e3	1.0764	1.0764	0.0884
10	Total Hexa-Furans	35.33	5.559e4	3.823e4	1.007e3	7.283e2	1.38	NO	1.735e3	0.21403	0.21403	0.0650

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Dataset: U:\VG12.PRO\Results\200516R1\200516R1-5.qld

Last Altered: Monday, May 18, 2020 11:41:42 Pacific Daylight Time

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Name: 200516R1_5, Date: 16-May-2020, Time: 12:16:55, ID: 2000946-03 PDI-162SC-A-03-04-200424 13.48, Description: PDI-162SC-A-03-04-200424

Hepta-Furans

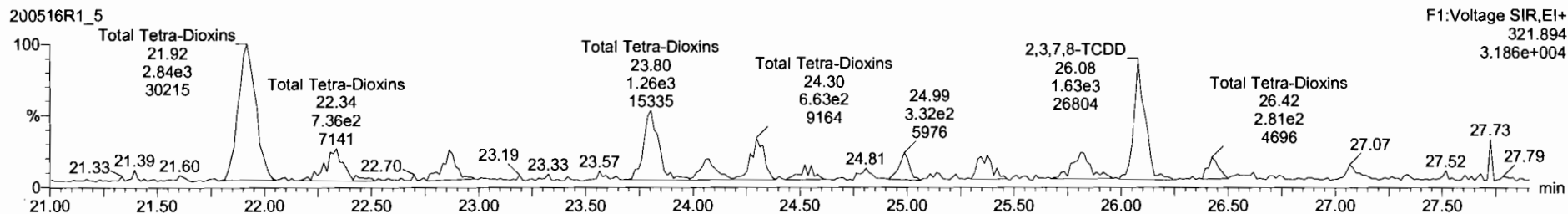
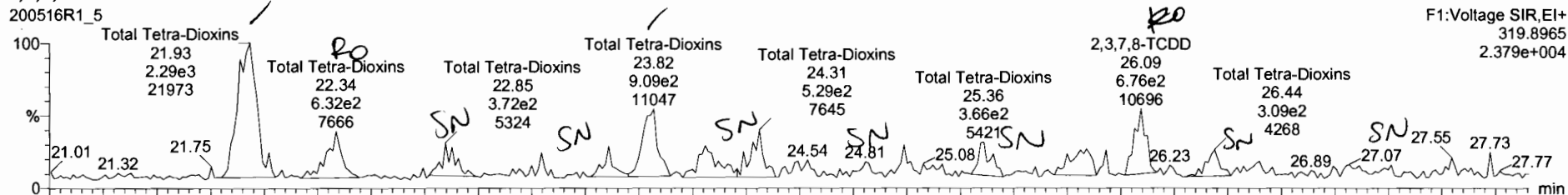
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.01	1.300e6	1.299e6	8.679e4	8.481e4	1.02	NO	1.716e5	28.128	28.128	0.115
2	Total Hepta-Furans	37.39	9.069e3	8.232e3	5.606e2	5.120e2	1.09	NO	1.073e3	0.20827	0.20827	0.130
3	Total Hepta-Furans	37.60	1.053e6	1.042e6	7.001e4	6.970e4	1.00	NO	1.397e5	27.129	27.129	0.130
4	1,2,3,4,7,8,9-HpCDF	39.00	1.153e5	1.213e5	6.404e3	6.755e3	0.95	NO	1.316e4	2.6988	2.6988	0.131

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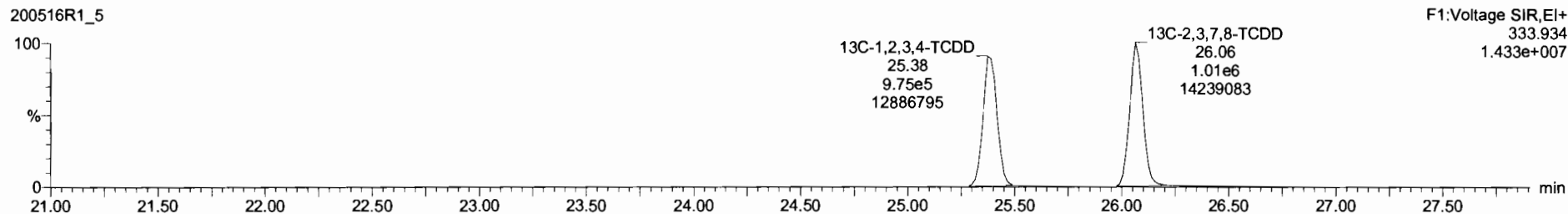
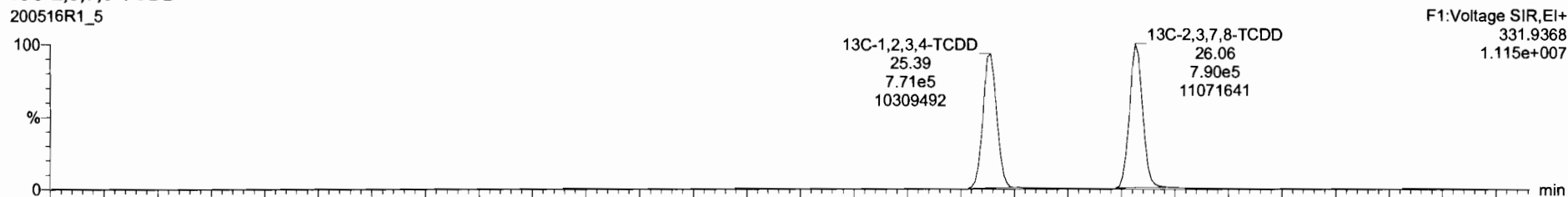
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2,3,7,8-TCDD

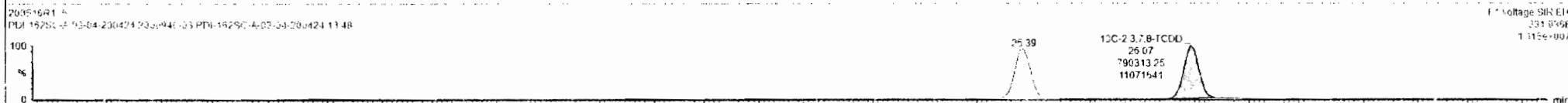
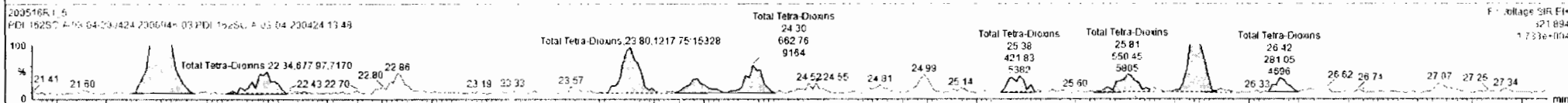
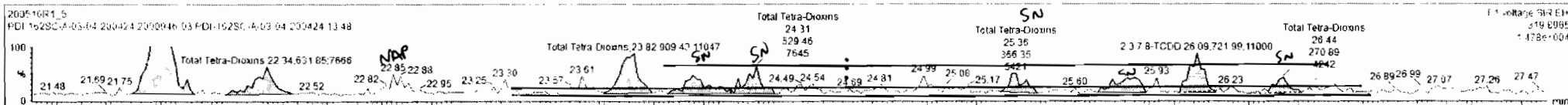


13C-2,3,7,8-TCDD



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.8475	18.392			0.991		0.0853	1.53
40 Total Penta-Dioxins				0.9425	10.912			1.66		0.0643	2.14

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	21.33	7.287e3	2.637e3	0.81	NO	0.55008	0.55008
2 Total Tetra-Dioxins	22.34	6.318e2	6.780e2	0.93	YES	0.12562	0.00000
3 Total Tetra-Dioxins	23.62	9.05e2	1.218e3	0.77	NO	0.22835	0.22835
4 Total Tetra-Dioxins	24.06	5.725e2	3.963e2	1.44	YES	0.075292	0.00000
5 Total Tetra-Dioxins	24.71	5.295e2	6.628e2	0.80	NO	0.12759	0.12759
6 Total Tetra-Dioxins	25.36	3.684e2	4.218e2	0.67	NO	0.064012	0.084612
7 Total Tetra-Dioxins	25.84	4.921e2	5.504e2	0.89	YES	0.10459	0.00000
8 2,3,7,8-TCDF	26.09	7.220e2	1.547e3	0.47	YES	0.17816	0.00000
9 Total Tetra-Dioxins	26.44	2.709e2	2.810e2	0.96	YES	0.052402	0.00000



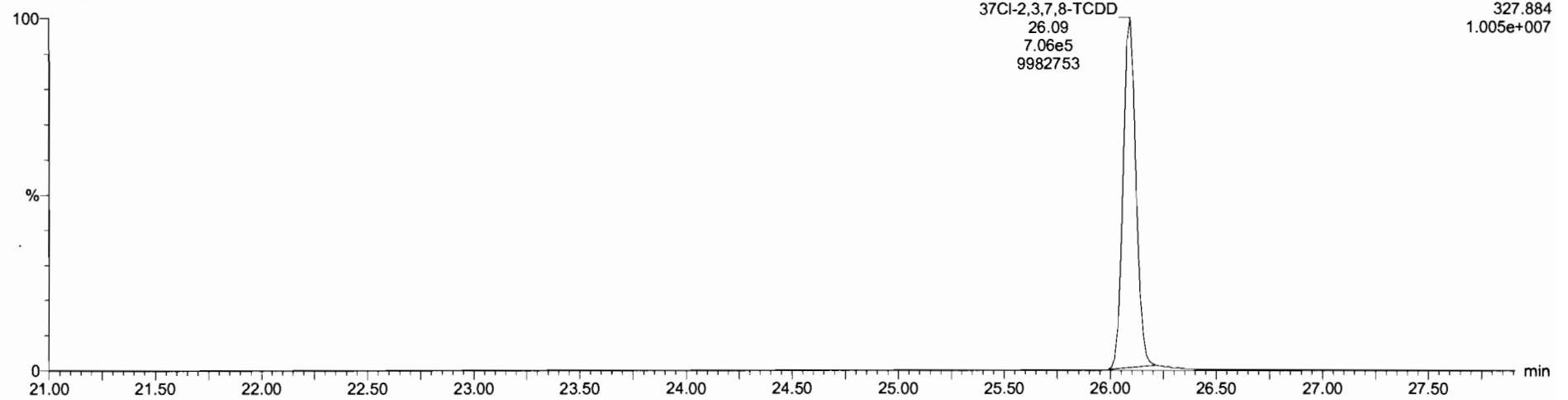
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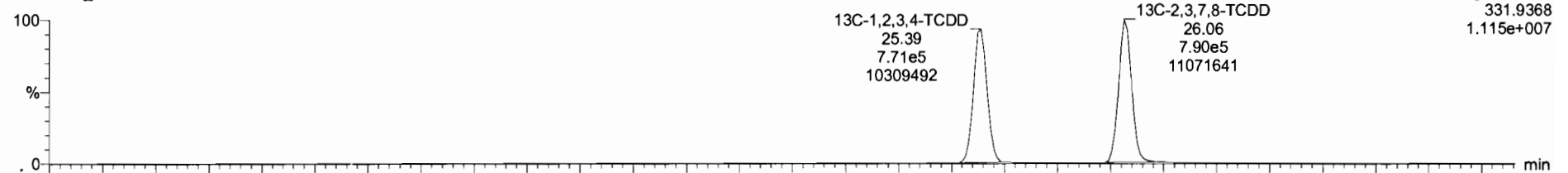
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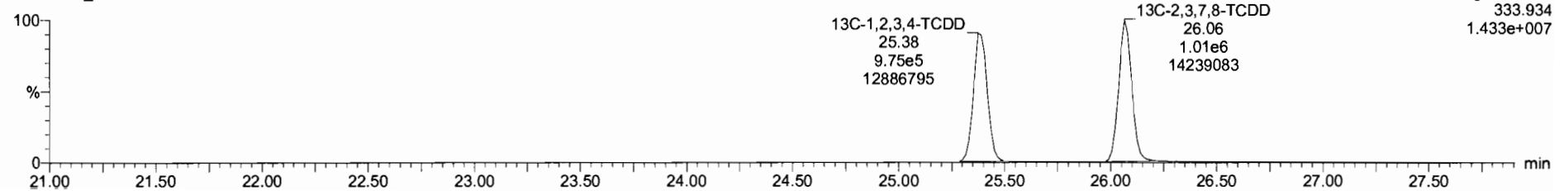


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200516R1_5



200516R1_5



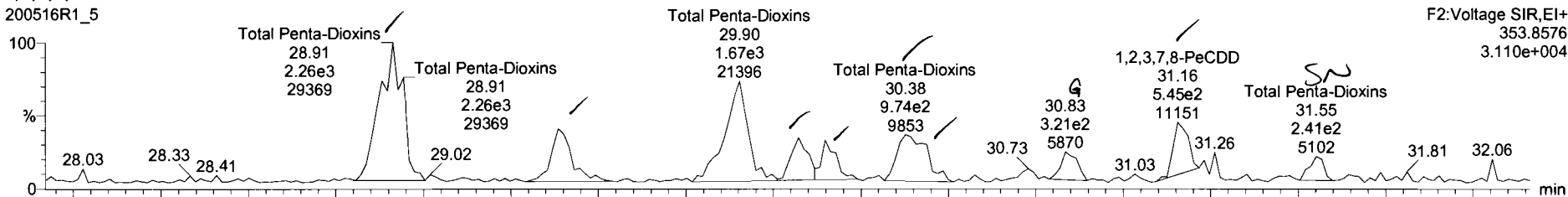
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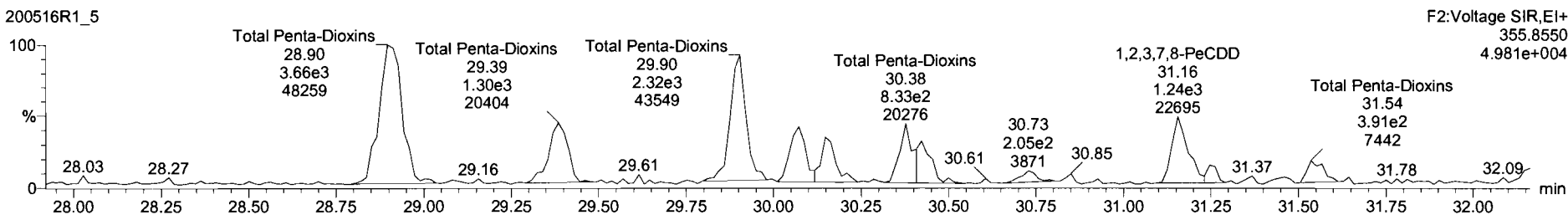
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1,2,3,7,8-PeCDD

200516R1_5

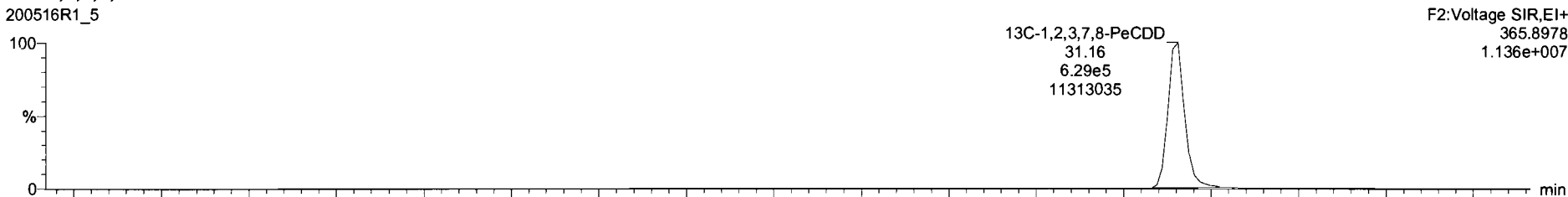


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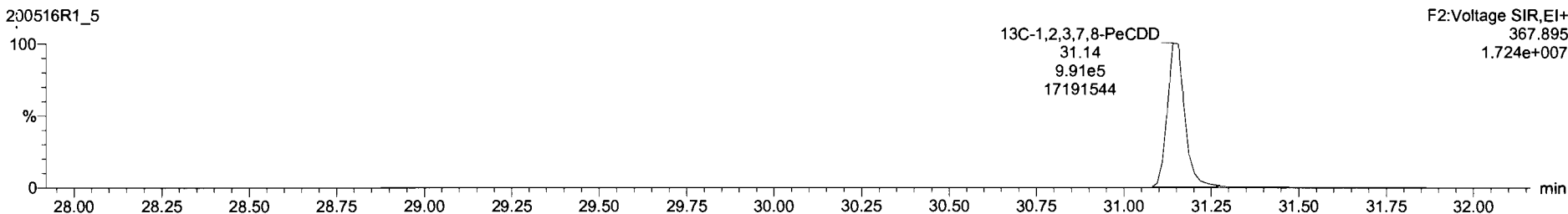


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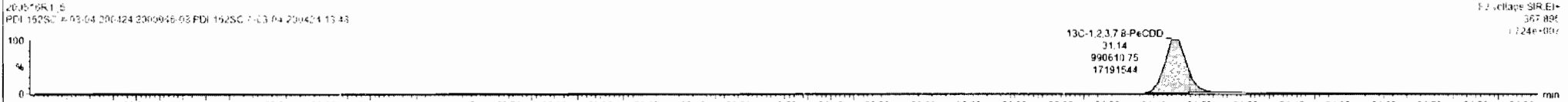
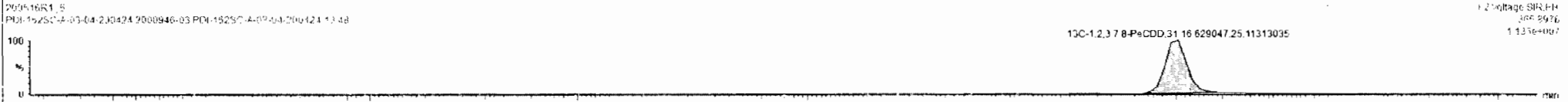
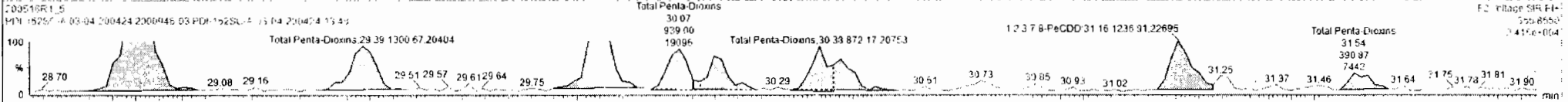
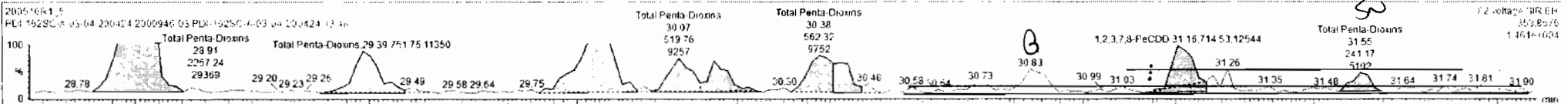


200516R1_5



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	19.942			0.778		0.0653	1.05
40 Total Penta-Dioxins				0.8425	16.912			2.97		0.0543	2.37

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Dioxins	28.91	2.257e3	2.664e3	0.62	NO	0.71053	0.71993
2 Total Penta-Dioxins	29.39	7.516e2	1.301e3	0.56	NO	0.24643	0.24643
3 Total Penta-Dioxins	29.90	1.641e3	2.324e3	0.71	NO	0.47608	0.47608
4 Total Penta-Dioxins	30.07	5.198e2	9.350e2	0.55	NO	0.17515	0.17515
5 Total Penta-Dioxins	30.15	4.500e2	8.178e2	0.56	NO	0.15318	0.15318
6 Total Penta-Dioxins	30.38	5.623e2	8.722e2	0.64	NO	0.17223	0.00000
7 Total Penta-Dioxins	30.42	3.529e2	6.579e2	0.54	NO	0.12136	0.00000
8 1,2,3,7,8-PeCDD	31.16	7.134e2	1.297e3	0.56	NO	0.23430	0.23430
9 Total Penta-Dioxins	31.55	2.412e2	3.909e2	0.62	NO	0.075887	0.075887



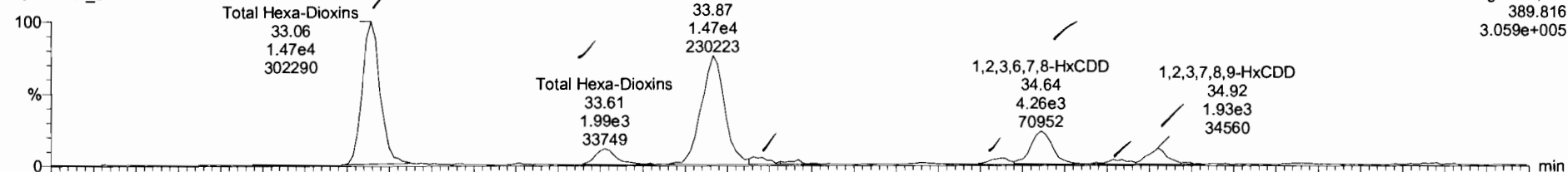
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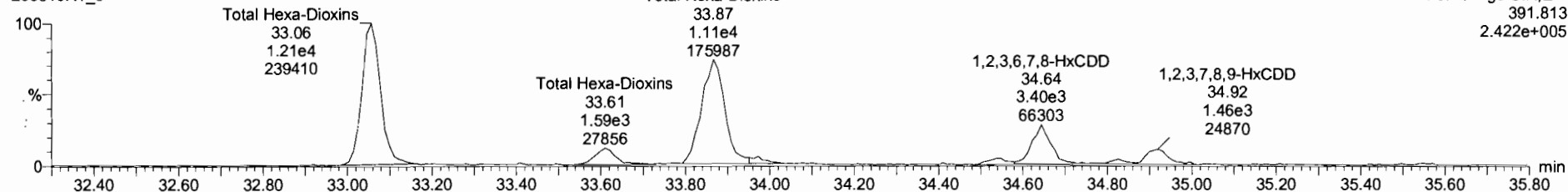
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1,2,3,4,7,8-HxCDD

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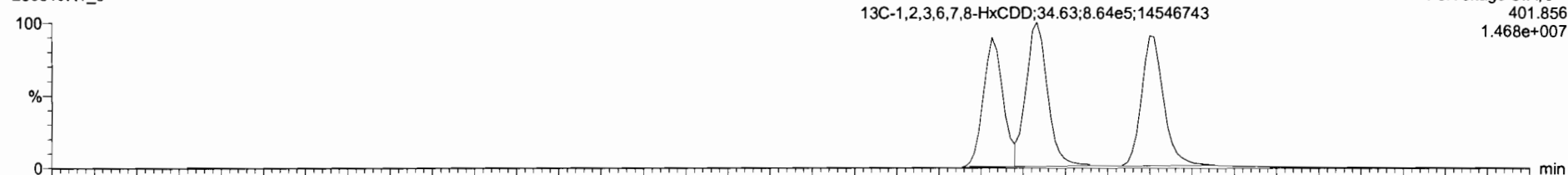


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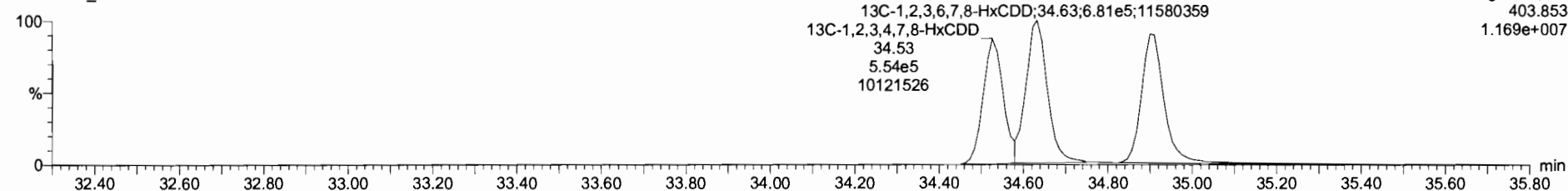


13C-1,2,3,4,7,8-HxCDD

200516R1_5

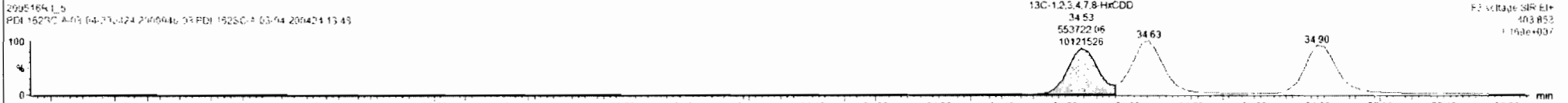
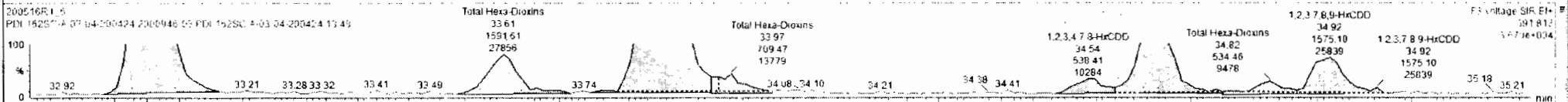
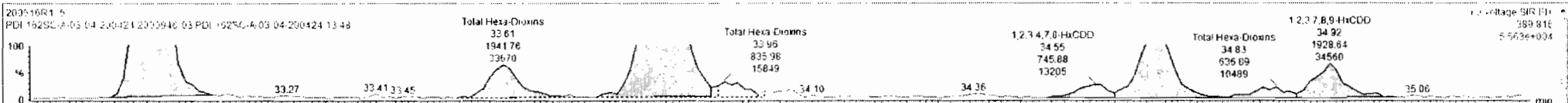


200516R1_5



Name	Resp	RA	ny	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.912			0.778		0.0653	1.05
40 Total Penta-Dioxins				0.9425	10.912			2.00		0.0648	2.25

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc.
1 Total Hexa-Dioxins	33.06	1.470e4	1.209e4	1.22	NO	3.7905	2.7905
2 Total Hexa-Dioxins	33.61	1.542e3	1.592e3	1.22	NO	0.49590	0.49590
3 Total Hexa-Dioxins	33.87	1.454e4	1.121e4	1.30	NO	3.6440	3.6440
4 Total Hexa-Dioxins	33.96	8.360e2	7.095e2	1.18	NO	0.21865	0.21865
5 1,2,3,4,7,8-HxCDD	34.55	7.455e2	5.384e2	1.39	NO	0.17563	0.17563
6 1,2,3,6,7,8-HxCDD	34.64	4.264e3	3.518e3	1.21	NO	1.0095	1.0095
7 Total Hexa-Dioxins	34.83	6.369e2	5.345e2	1.19	NO	0.16572	0.16572
8 1,2,3,7,8,9-HxCDD	34.92	1.525e3	1.575e3	1.22	NO	0.48513	0.48513



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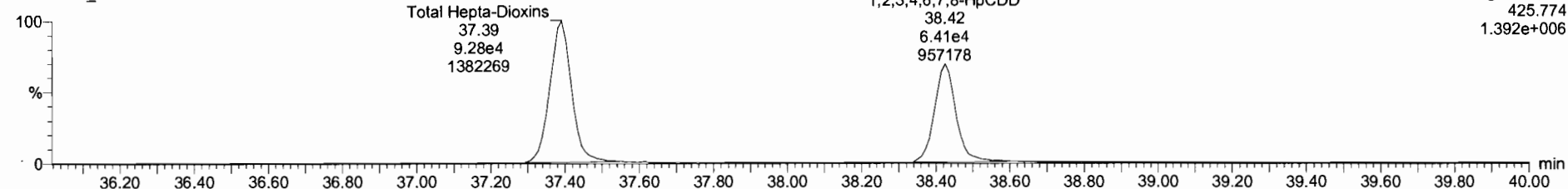
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1,2,3,4,6,7,8-HpCDD

200516R1_5

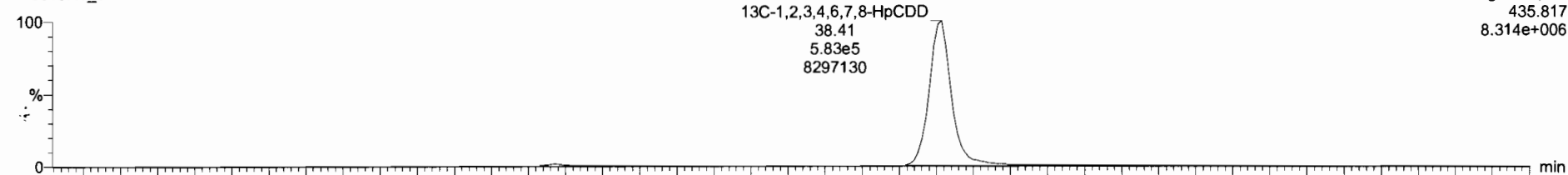


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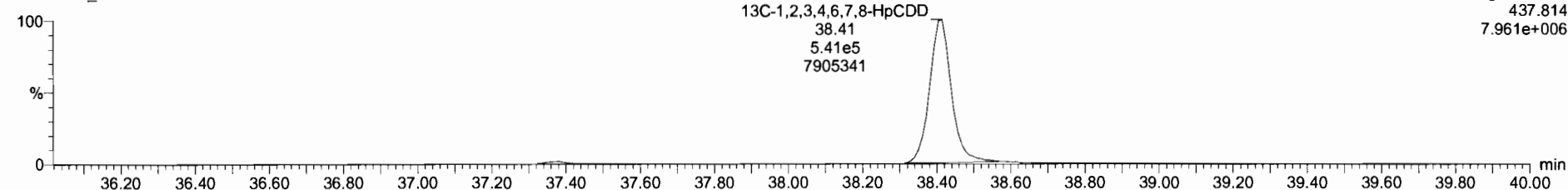


13C-1,2,3,4,6,7,8-HpCDD

200516R1_5



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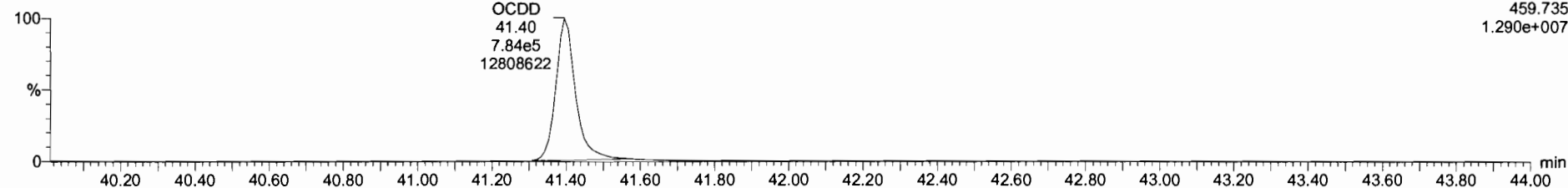
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OCDD

200516R1_5

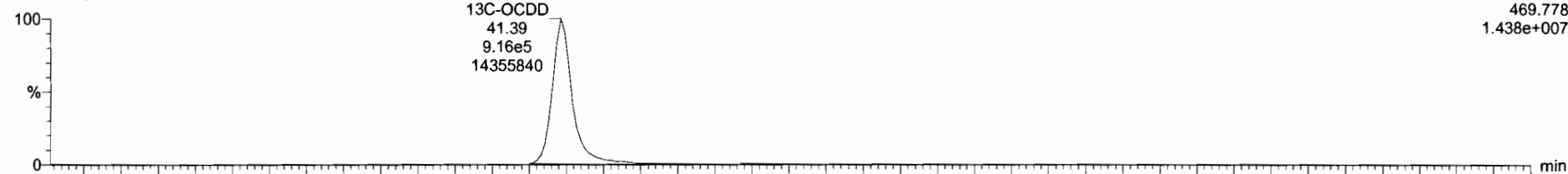


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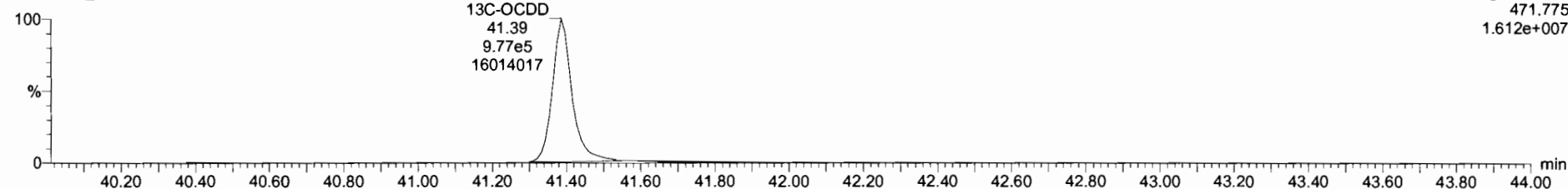


13C-OCDD

200516R1_5



200516R1_5



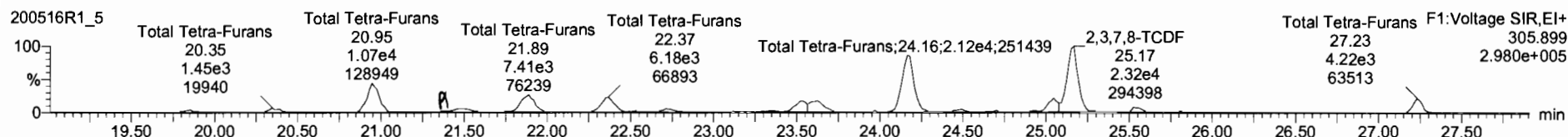
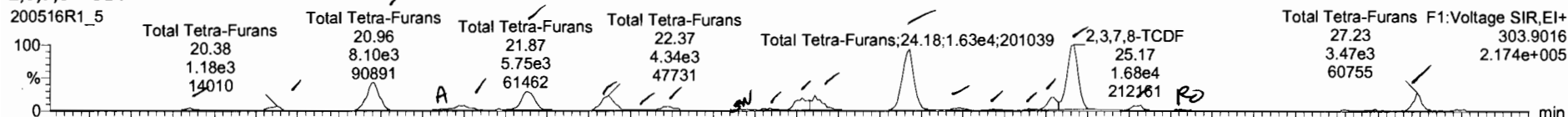
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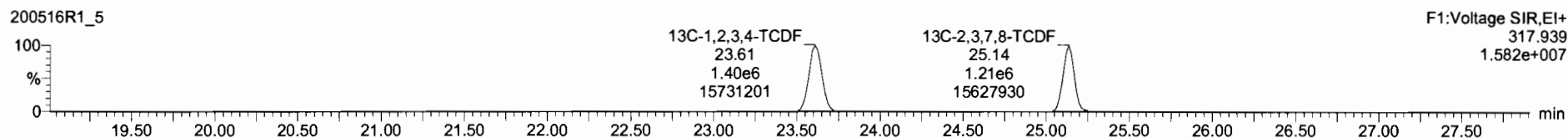
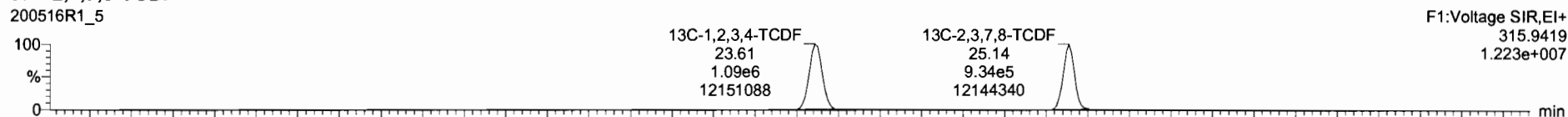
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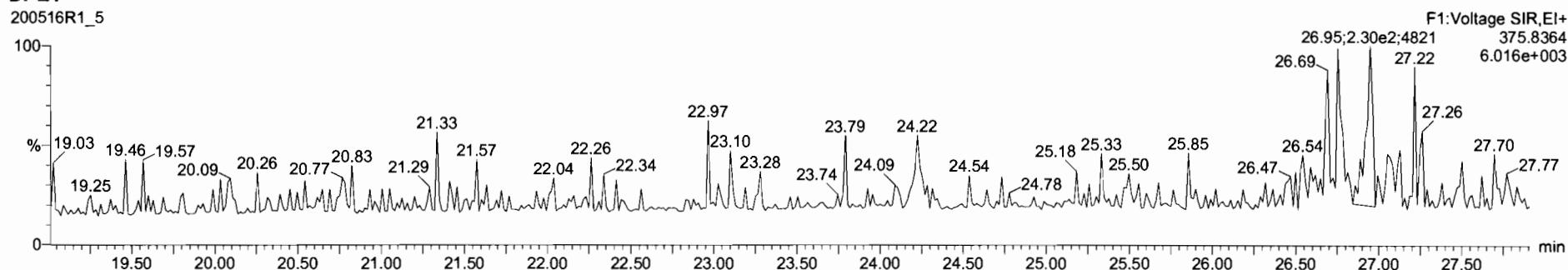
2,3,7,8-TCDF

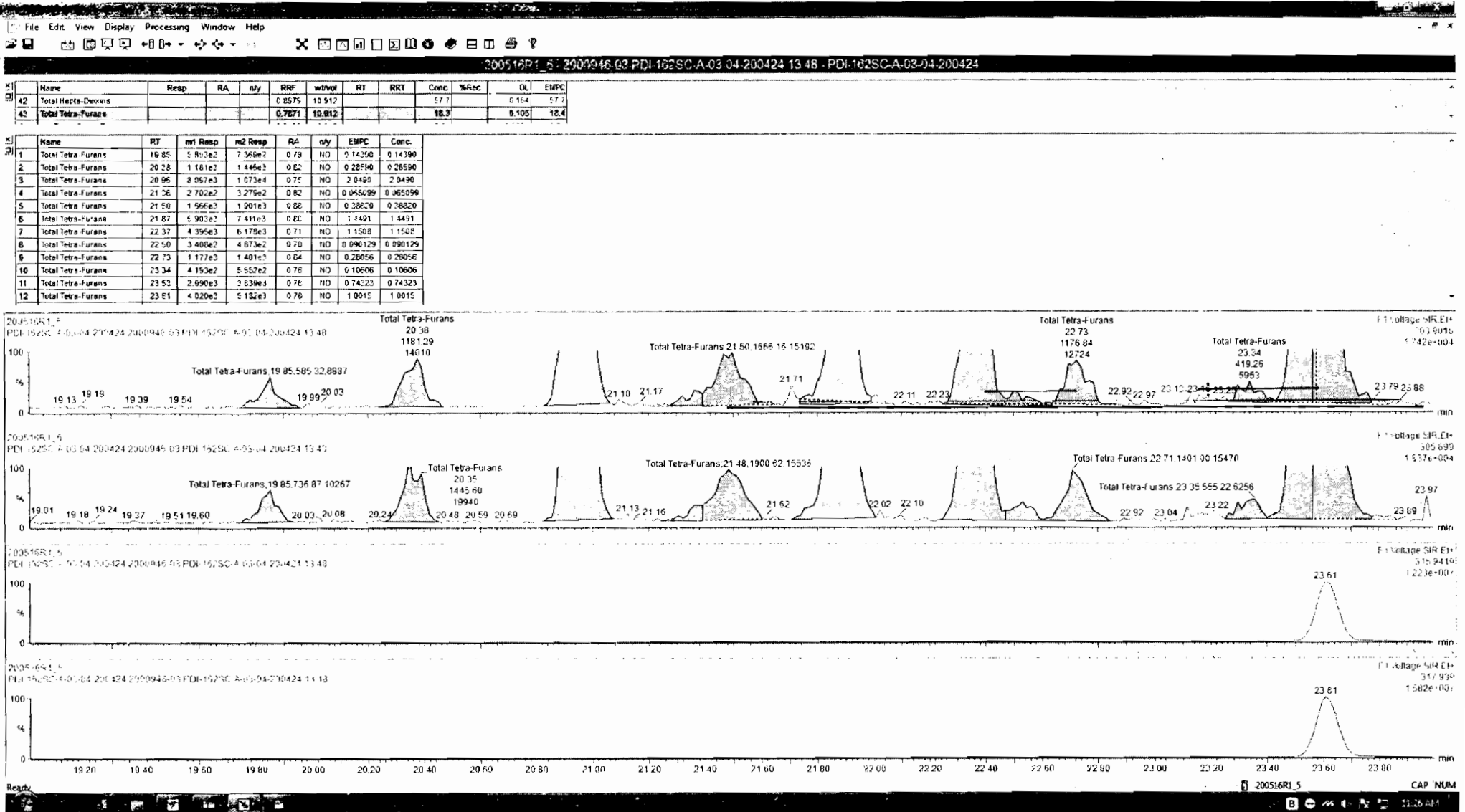


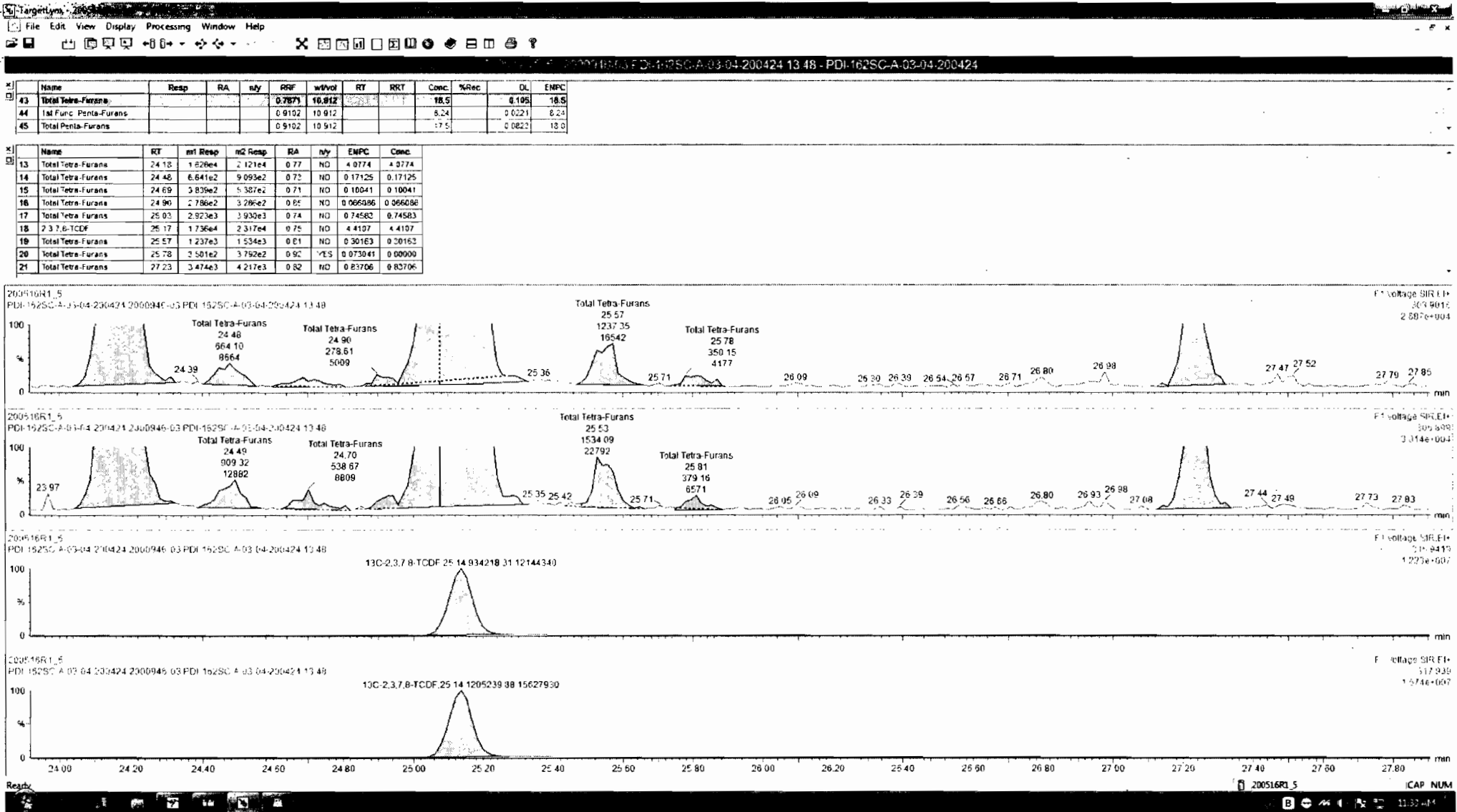
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DPE1







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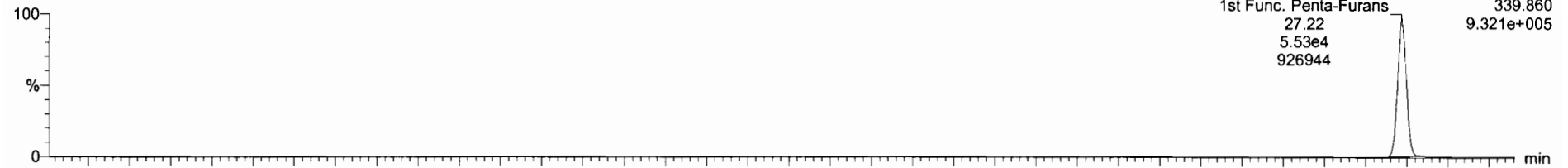
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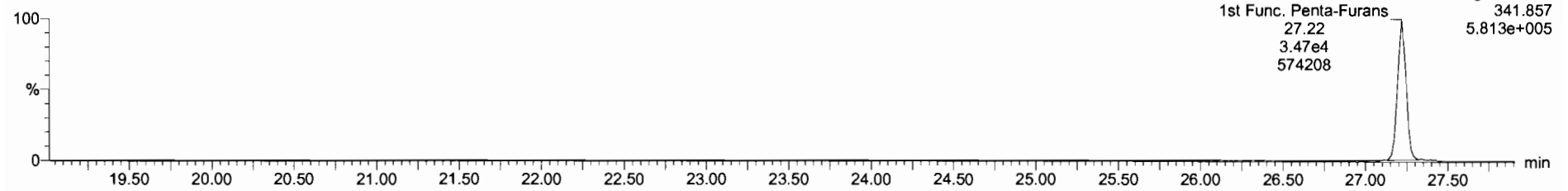
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1st Func. Penta-Furans

200516R1_5

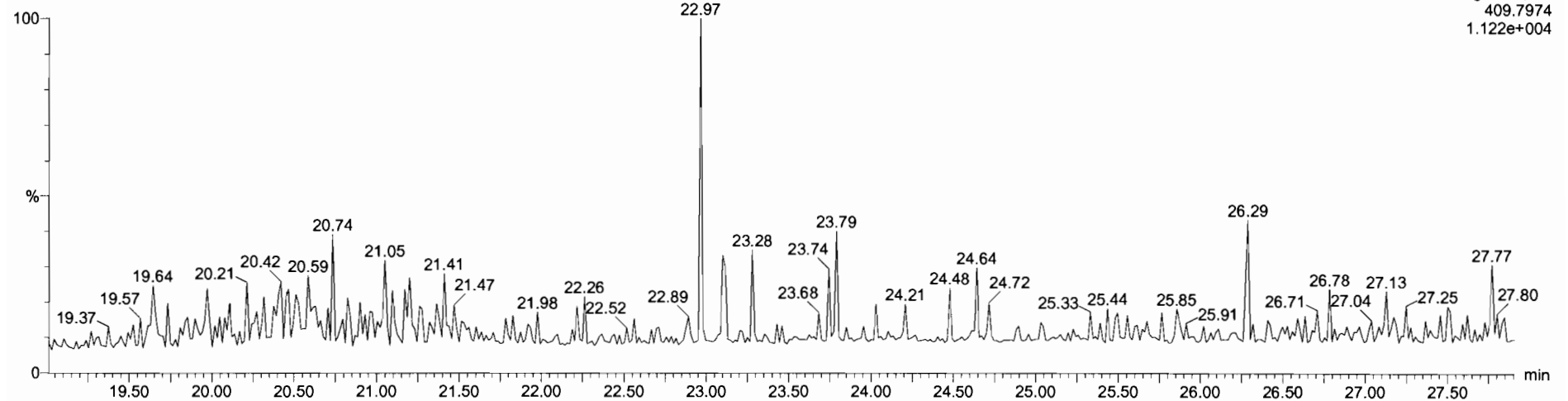


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DPE6

200516R1_5

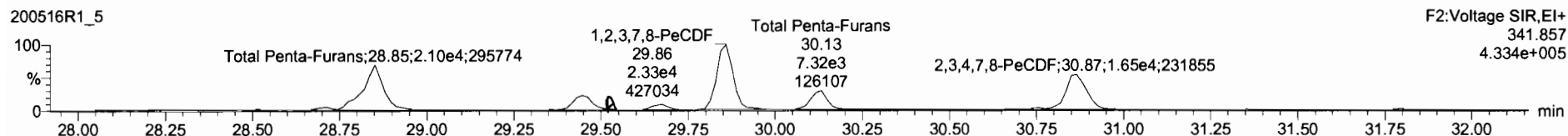
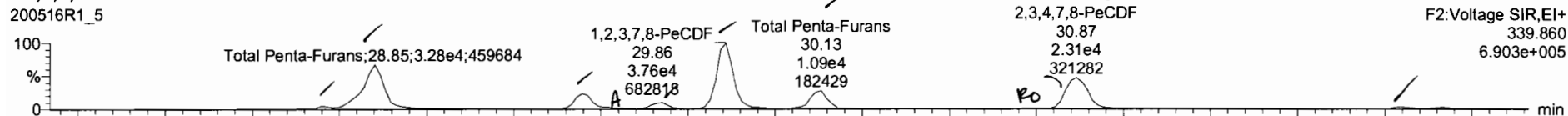


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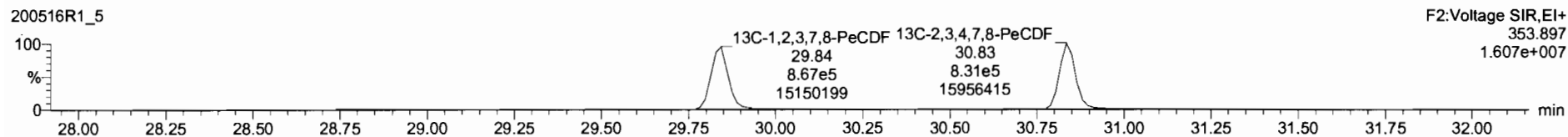
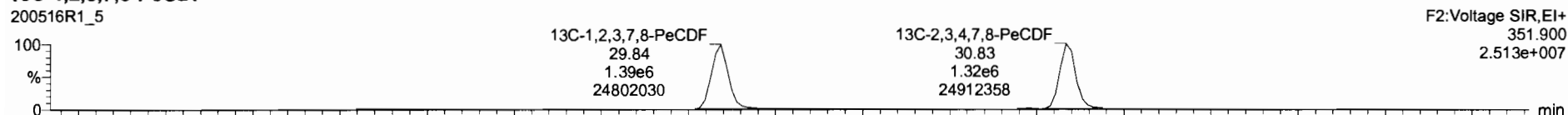
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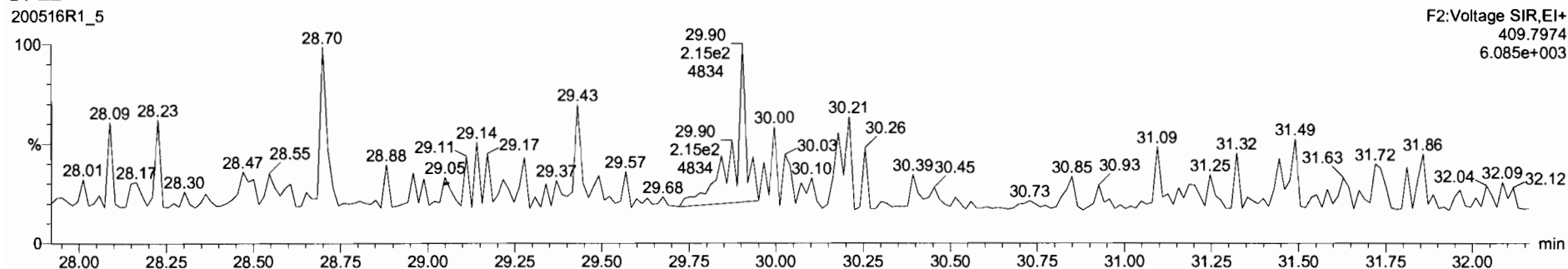
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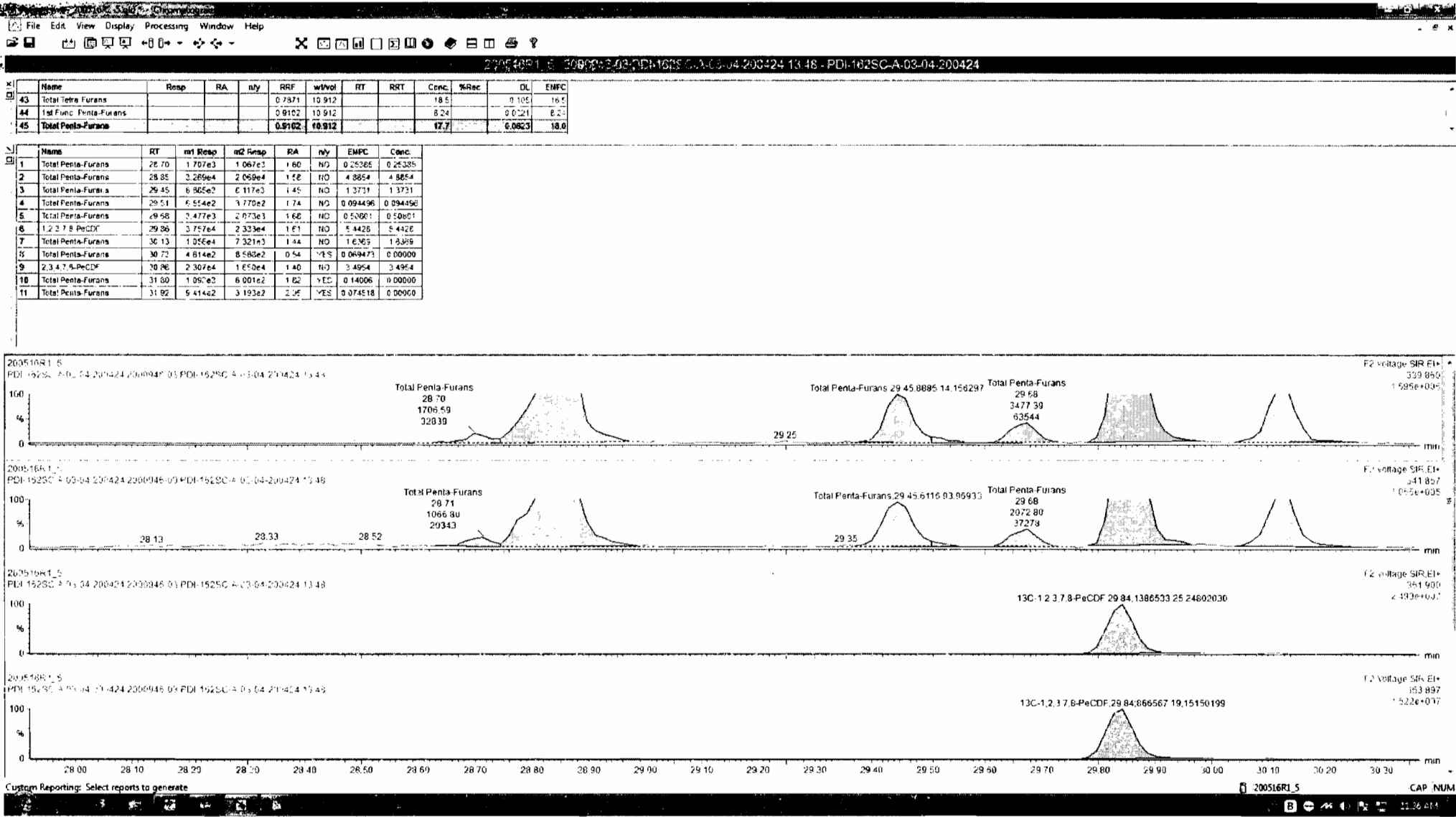


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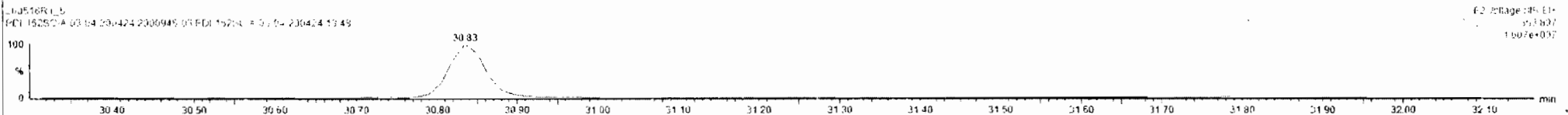
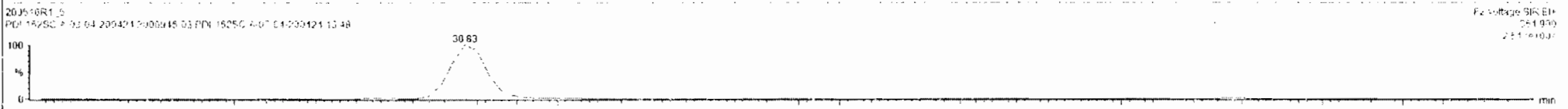
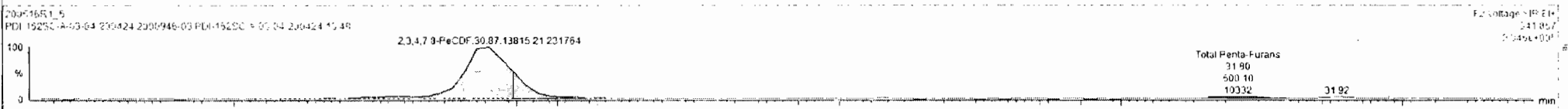
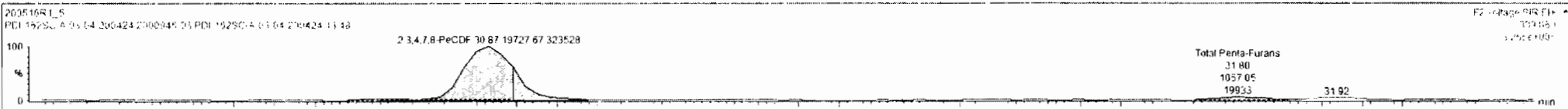
DPE2





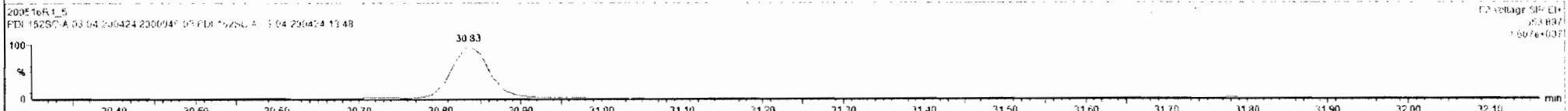
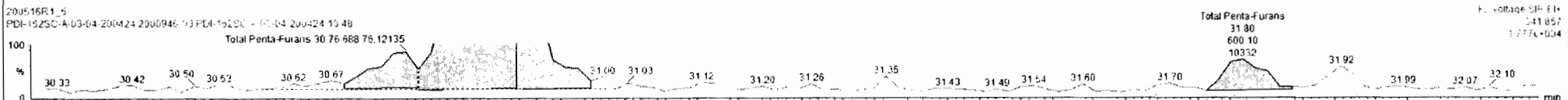
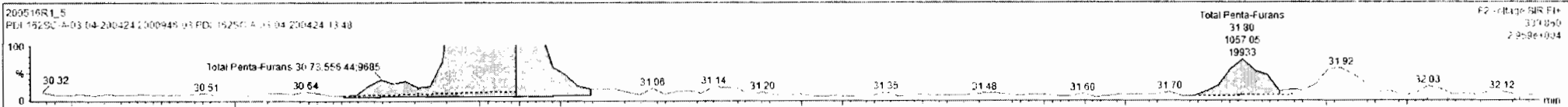
Name	Resp	RA	n/y	RRF	a-thol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.912			10.5		0.105	10.7
44 Tot Func Penta-Furans				0.5102	10.912			8.24		0.0221	8.24
45 Total Penta-Furans				0.9102	10.512			17.9		0.063	18.6

Name	RT	rrf (Rsp)	n/y (Resp)	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.70	1.707e3	1.067e3	1.60	NO	0.25265	0.25385
2 Total Penta-Furans	28.85	2.289e4	2.069e4	1.52	NO	4.3854	4.8654
3 Total Penta-Furans	29.45	6.365e2	6.117e2	1.45	NO	1.3731	1.3731
4 Total Penta-Furans	29.51	6.554e2	3.779e2	1.74	NO	0.094496	0.094496
5 Total Penta-Furans	29.68	3.477e3	2.073e3	1.66	NO	0.50501	0.50301
6 1,2,3,7,8-PeCDF	29.86	3.757e4	2.333e4	1.61	NO	5.4428	5.4428
7 Total Penta-Furans	30.13	1.056e4	7.321e3	1.44	NO	1.6369	1.6369
8 Total Penta-Furans	30.73	5.564e2	6.988e2	0.61	YLS	0.093790	0.00000
9 2,3,4,7,8-PeCDF	30.87	1.573e4	1.382e4	1.43	NO	2.9634	2.9634
10 Total Penta-Furans	30.90	3.844e3	2.600e3	1.49	NO	0.50360	0.50980
11 Total Penta-Furans	31.80	1.057e3	5.001e2	1.76	NO	0.15168	0.15168



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	ENPC
43 Total Tetra-Furans				0.7871	10.912			18.5		0.105	16.5
44 1st Func. Penta-Furans				0.9102	10.912			8.24		0.0221	8.24
45 Total Penta-Furans				0.9102	10.912			17.9		0.0823	18.0

Name	RT	m1 Resp	m2 Resp	RA	n/y	ENPC	Conc.
1 Total Penta-Furans	28.70	1.797e3	1.067e3	1.60	NO	0.25385	0.25385
2 Total Penta-Furans	28.85	3.269e4	2.069e4	1.58	NO	4.3854	4.3854
3 Total Penta-Furans	29.45	6.865e2	6.117e3	1.45	NO	1.2731	1.3731
4 Total Penta-Furans	29.51	6.554e2	3.770e2	1.74	NO	0.094436	0.094456
5 Total Penta-Furans	29.68	2.477e3	2.073e1	1.68	NO	0.50801	0.50801
6 1,2,3,7,8-PeCDF	29.96	3.757e4	2.333e4	1.61	NO	5.4428	5.4428
7 Total Penta-Furans	30.13	1.056e4	7.321e3	1.44	NO	1.6369	1.6369
8 Total Penta-Furans	30.72	5.564e2	6.889e2	0.81	YES	0.083790	0.080000
9 2,3,4,7,8-PeCDF	30.87	1.573e4	1.382e4	1.43	NO	2.9634	2.9634
10 Total Penta-Furans	30.96	3.244e3	2.600e3	1.48	NO	0.58960	0.58960
11 Total Penta-Furans	31.80	1.057e3	6.001e2	1.76	NO	0.15168	0.15168



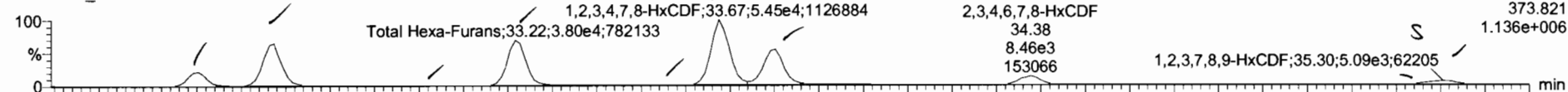
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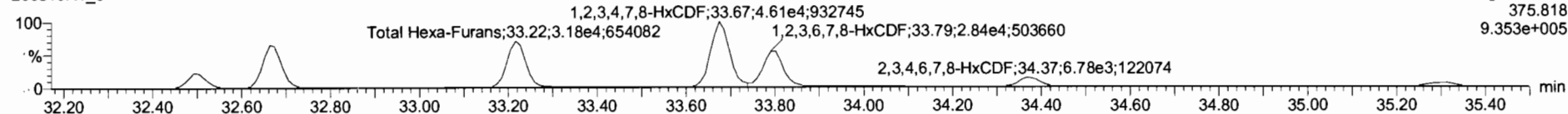
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1,2,3,4,7,8-HxCDF

200516R1_5

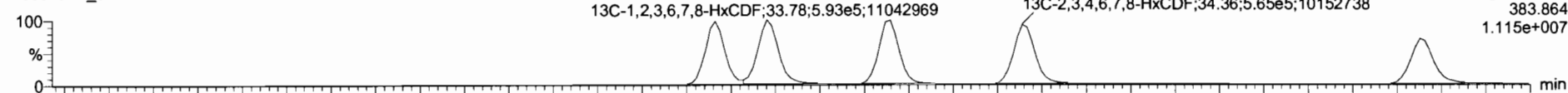


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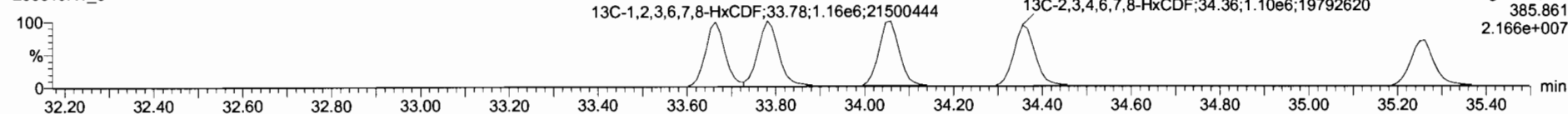


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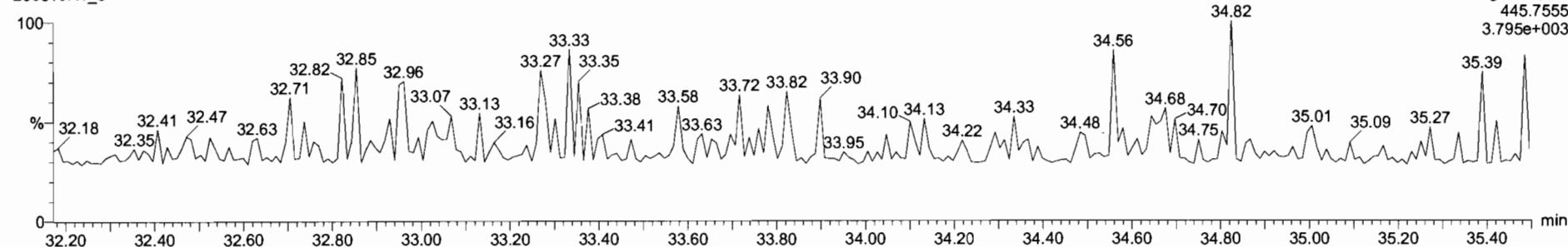


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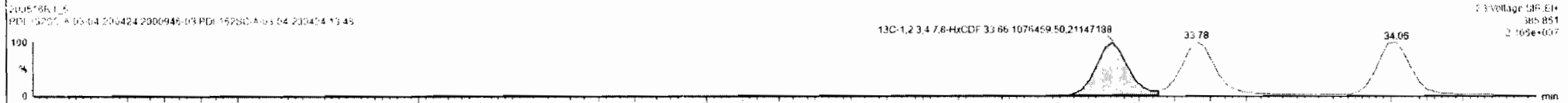
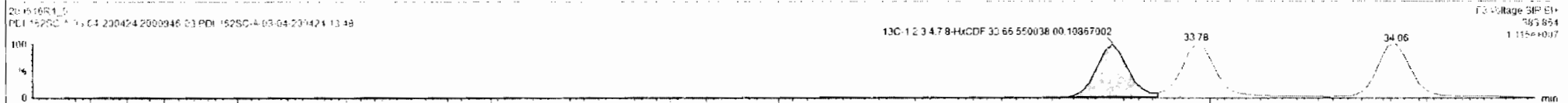
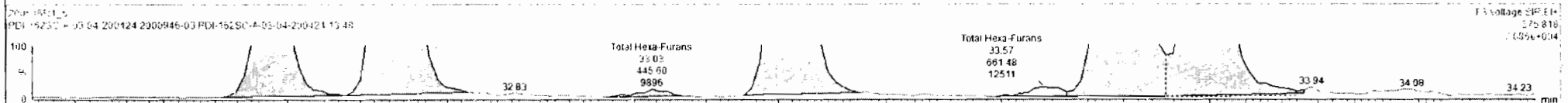
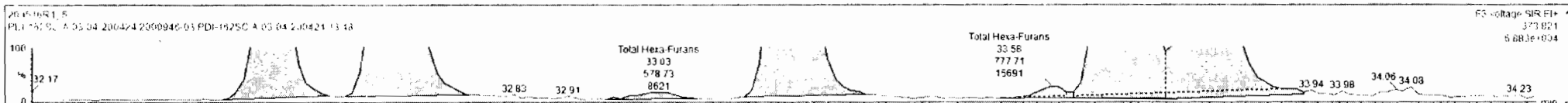
DPE3

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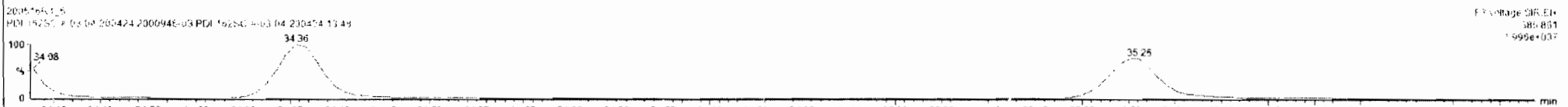
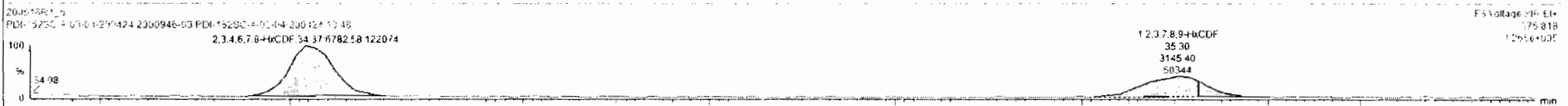
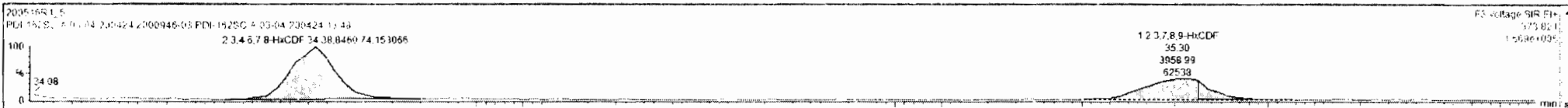
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	OL	EMPC
43 Total Tetra-Furans				0.7871	10.912			18.5		0.105	16.5
44 1st Func. Penta-Furans				0.9102	10.912			8.24		0.0221	8.23
45 Total Penta-Furans				0.9102	10.912			17.9		0.0622	16.0

Name	RT	mt Resp	nt Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.50	1.206e4	1.030e4	1.17	NO	2.7504	2.7504
2 Total Hexa-Furans	32.67	3.637e4	3.011e4	1.21	NO	8.2009	8.2009
3 Total Hexa-Furans	33.03	5.767e4	4.455e4	1.20	NO	0.12627	0.12637
4 Total Hexa-Furans	33.22	3.280e4	3.175e4	1.20	NO	3.6061	8.6061
5 Total Hexa-Furans	33.58	7.777e2	6.615e2	1.16	NO	0.17755	0.17755
6 1,2,3,4,7,8-HxCDF	33.67	8.522e4	4.607e4	1.20	NO	12.956	12.956
7 1,2,3,6,7,8-HxCDF	33.80	3.461e4	2.811e4	1.20	NO	7.4942	7.4942
8 2,3,4,6,7,8-HxCDF	34.38	8.461e3	6.703e3	1.25	NO	1.8192	1.8192
9 1,2,3,7,8-HxCDF	35.30	5.085e3	3.917e3	1.30	NO	1.3646	1.3646



Name	Resp	RA	nly	RRF	wtVol	RT	KRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7571	10.912			18.5		0.105	16.4
44 1st Func. Penta-Furans				0.9132	10.912			8.24		0.0221	8.24
45 Total Penta-Furans				0.9132	10.912			17.8		0.0823	10.0

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Furans	32.50	1.206e4	1.030e4	1.17	NO	2.7504	0.7504
2 Total Hexa-Furans	32.67	3.637e4	3.011e4	1.21	NO	5.2009	2.2009
3 Total Hexa-Furans	33.03	5.787e2	4.456e2	1.20	NO	0.12697	0.12637
4 Total Hexa-Furans	33.22	3.890e4	3.175e4	1.20	NO	2.6061	8.6951
5 Total Hexa-Furans	33.58	7.777e2	6.615e2	1.16	NO	0.17755	0.17755
6 1,2,3,4,7,8-HxCDF	33.67	5.523e4	4.607e4	1.20	NO	12.998	10.998
7 1,2,3,6,7,8-HxCDF	33.80	3.461e4	2.811e4	1.23	NO	7.4942	7.4942
8 2,3,4,6,7,8-HxCDF	34.38	8.461e3	6.783e3	1.25	NO	1.8192	1.8192
9 1,2,3,7,8,9-HxCDF	35.30	3.959e3	3.145e3	1.26	NO	1.0164	1.0764
10 Total Hexa-Furans	35.33	1.007e2	7.283e2	1.28	NO	0.21403	0.21403



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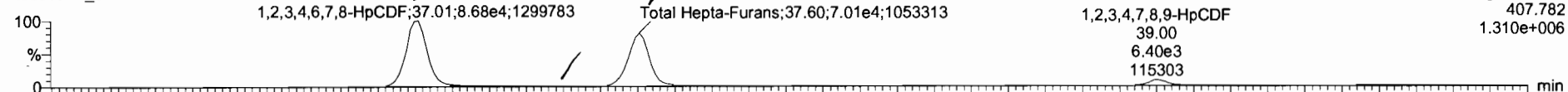
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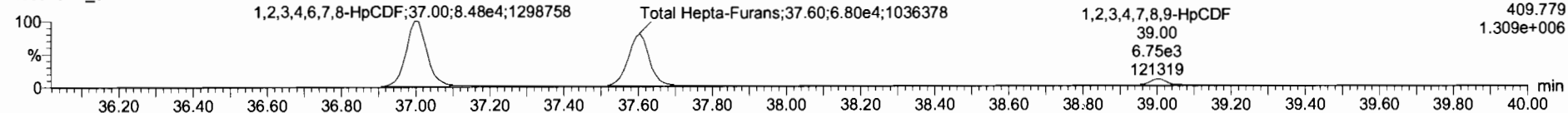
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1,2,3,4,6,7,8-HpCDF

200516R1_5

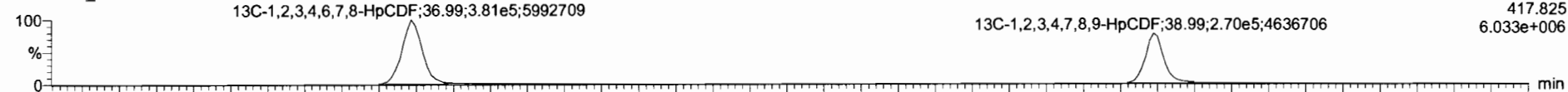


200516R1_5

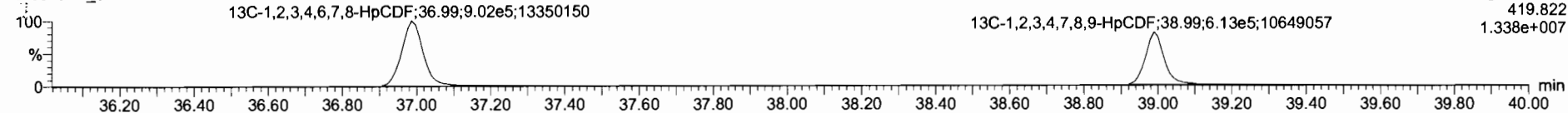


13C-1,2,3,4,6,7,8-HpCDF

200516R1_5

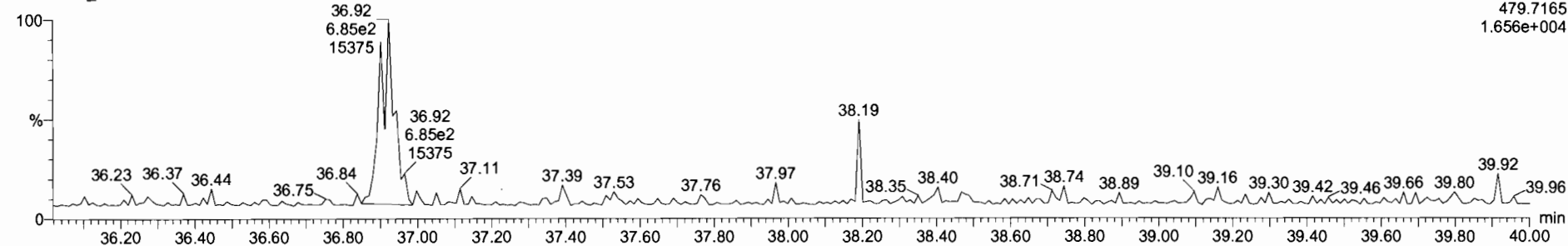


200516R1_5



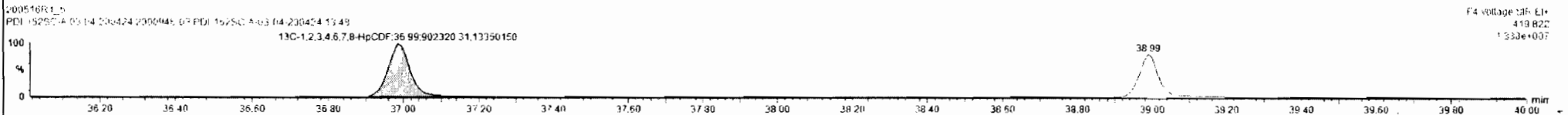
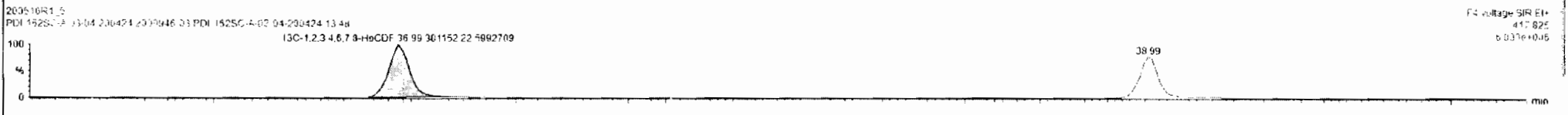
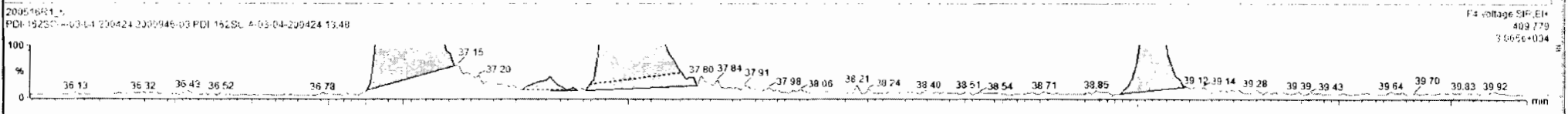
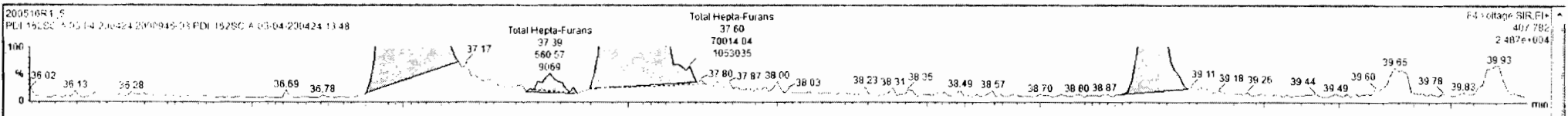
DPE4

200516R1_5



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
47 Total Hepta-Furans				0.0712	10.912			58.2		0.130	58.2
48 PFK1											
49 PFK2											

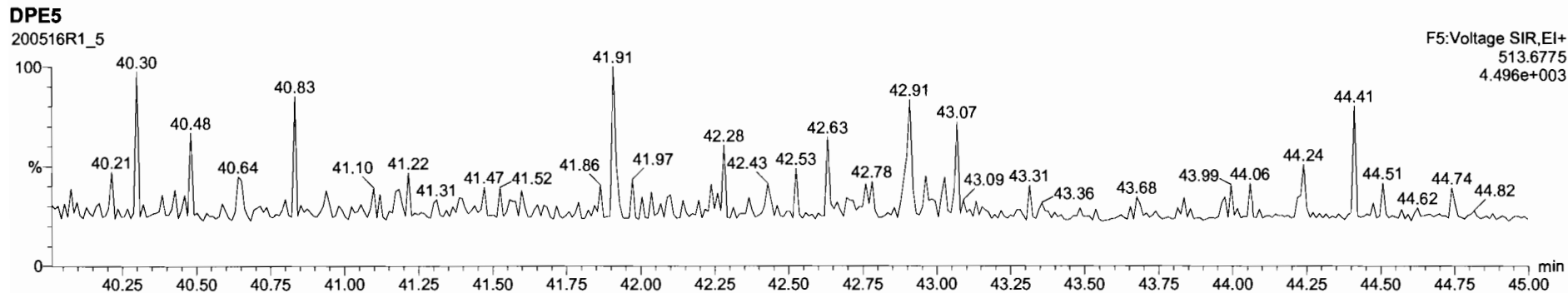
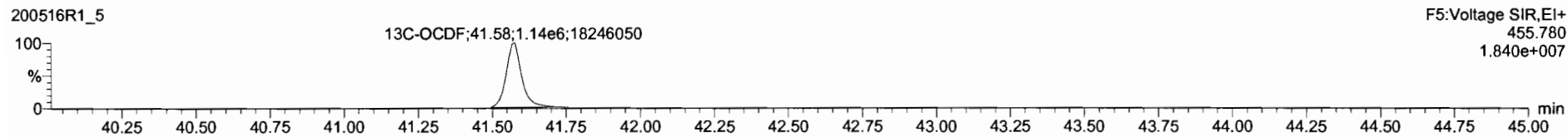
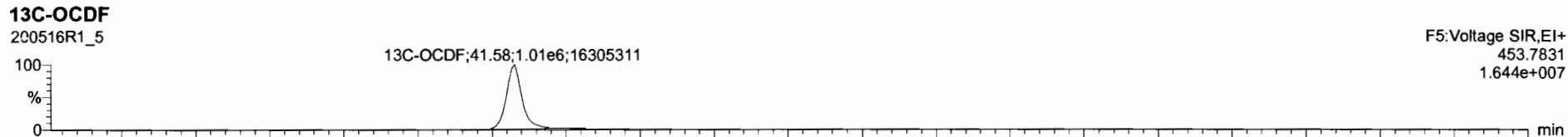
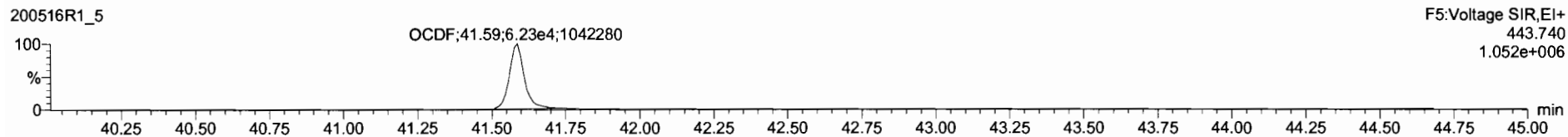
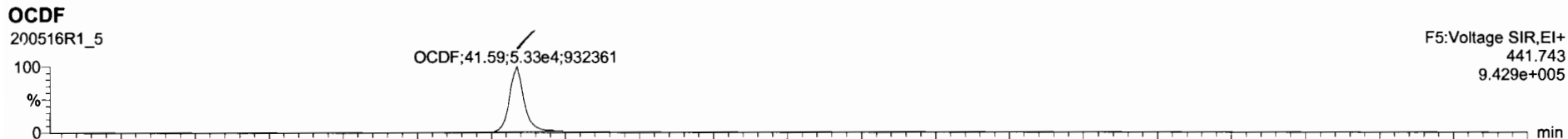
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	37.01	8.679e4	8.461e4	1.00	NO	26.125	2.6128
2 Total Hepta-Furans	37.39	5.606e2	5.120e2	1.09	NO	0.20627	0.20627
3 Total Hepta-Furans	37.60	7.001e4	6.970e4	1.00	NO	27.129	27.129
4 1,2,3,4,7,8,9-HpCDF	39.00	6.404e3	6.755e3	0.95	NO	2.6968	2.6968



Dataset: Untitled

Last Altered: Monday, May 18, 2020 07:36:56 Pacific Daylight Time
Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

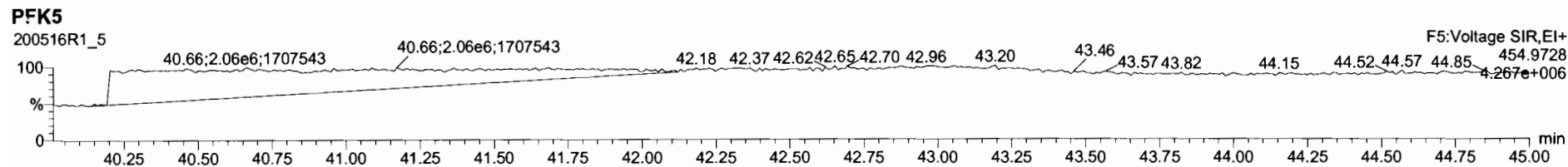
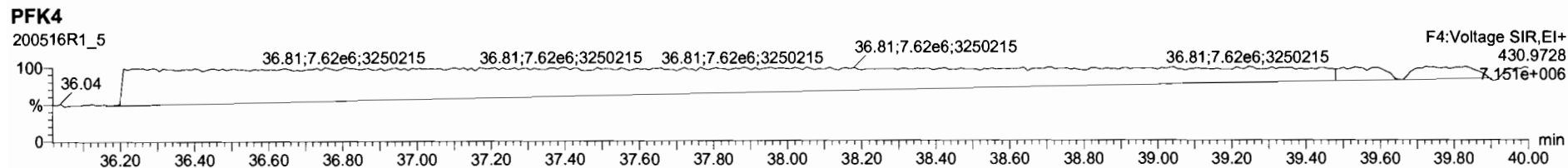
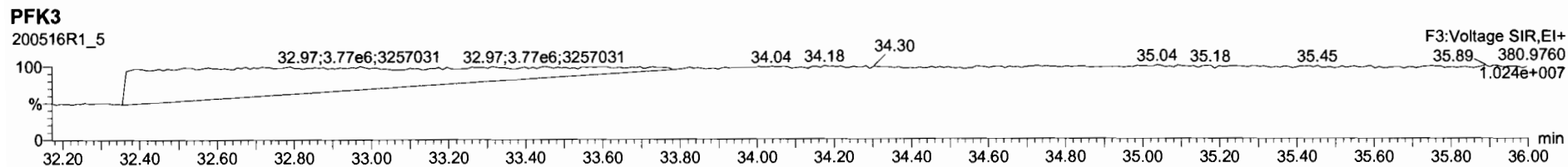
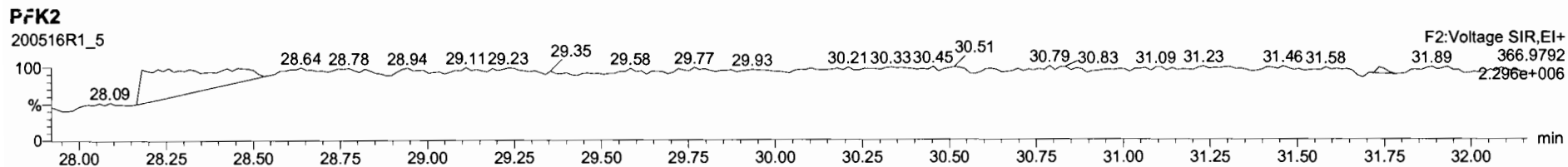
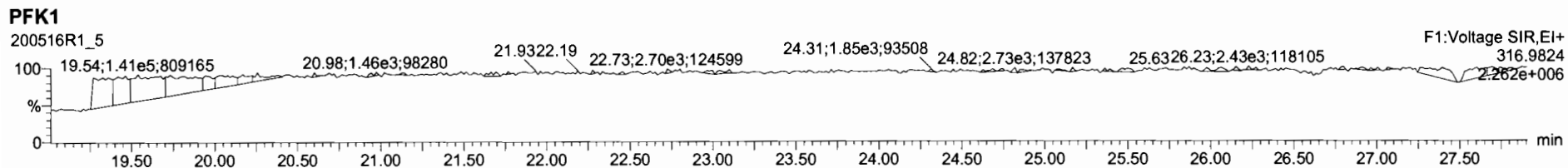
Name: 200516R1_5, Date: 16-May-2020, Time: 12:16:55, ID: 2000946-03 PDI-162SC-A-03-04-200424 13.48, Description: PDI-162SC-A-03-04-200424



Dataset: Untitled

Last Altered: Monday, May 18, 2020 07:36:56 Pacific Daylight Time
Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

Name: 200516R1_5, Date: 16-May-2020, Time: 12:16:55, ID: 2000946-03 PDI-162SC-A-03-04-200424 13.48, Description: PDI-162SC-A-03-04-200424



Dataset: U:\VG12.PRO\Results\200516R1\200516R1-6B.qld

Last Altered: Friday, May 22, 2020 12:33:59 Pacific Daylight Time
Printed: Friday, May 22, 2020 12:35:21 Pacific Daylight Time

GRB 05/22/2020

C1 05/22/2020

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: 200516R1_6, Date: 16-May-2020, Time: 13:03:05, ID: 2000946-04 PDI-162SC-A-04-05-200424 11.77, Description: PDI-162SC-A-04-05-200424

#	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	10.068	26.080		1.001				0.0677	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.068	31.162		1.001				0.0781	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.068	34.526		1.000				0.0759	
4	4 1,2,3,6,7,8-HxCDD	1.50e3	1.20	NO	0.915	10.068	34.623	34.63	1.000	1.000	0.25266		0.0737	0.253
5	5 1,2,3,7,8,9-HxCDD	1.10e3	1.28	NO	0.915	10.068	34.910	34.92	1.000	1.001	0.19484		0.0826	0.195
6	6 1,2,3,4,6,7,8-HpCDD	2.27e4	1.00	NO	0.898	10.068	38.405	38.41	1.000	1.001	5.3486		0.117	5.35
7	7 OCDD	2.55e5	0.89	NO	0.933	10.068	41.375	41.39	1.000	1.000	68.582		0.134	68.6
8	8 2,3,7,8-TCDF	1.36e4	0.72	NO	0.787	10.068	25.147	25.14	1.001	1.001	1.8876	OK	0.0737	1.89
9	9 1,2,3,7,8-PeCDF	1.28e4	1.67	NO	0.910	10.068	29.849	29.84	1.001	1.001	1.4741		0.0592	1.47
10	10 2,3,4,7,8-PeCDF	8.27e3	1.55	NO	0.966	10.068	30.855	30.85	1.001	1.000	0.91448		0.0578	0.914
11	11 1,2,3,4,7,8-HxCDF	1.47e4	1.17	NO	0.878	10.068	33.653	33.66	1.000	1.000	2.3790		0.0472	2.38
12	12 1,2,3,6,7,8-HxCDF	5.28e3	1.18	NO	0.874	10.068	33.781	33.79	1.000	1.001	0.78957		0.0452	0.790
13	13 2,3,4,6,7,8-HxCDF	1.59e3	1.25	NO	0.922	10.068	34.390	34.37	1.001	1.000	0.25486		0.0501	0.255
14	14 1,2,3,7,8,9-HxCDF	1.94e3	1.10	NO	0.864	10.068	35.251	35.30	1.000	1.002	0.35877		0.0638	0.359
15	15 1,2,3,4,6,7,8-HpCDF	1.51e4	0.98	NO	0.871	10.068	37.014	37.00	1.001	1.001	3.2271		0.0703	3.23
16	16 1,2,3,4,7,8,9-HpCDF	1.85e3	0.92	NO	1.01	10.068	38.979	39.00	1.000	1.001	0.46541		0.0749	0.465
17	17 OCDF	1.84e4	0.92	NO	0.802	10.068	41.567	41.57	1.000	1.000	4.9351		0.0711	4.94
18	18 13C-2,3,7,8-TCDD	1.52e6	0.78	NO	1.16	10.068	26.046	26.05	1.026	1.027	169.52	85.3	0.172	
19	19 13C-1,2,3,7,8-PeCDD	1.38e6	0.63	NO	0.847	10.068	31.141	31.14	1.227	1.227	211.12	106	0.215	
20	20 13C-1,2,3,4,7,8-HxCDD	1.05e6	1.27	NO	0.750	10.068	34.528	34.52	1.014	1.014	184.87	93.1	0.320	
21	21 13C-1,2,3,6,7,8-HxCDD	1.29e6	1.27	NO	0.963	10.068	34.640	34.62	1.017	1.017	177.03	89.1	0.249	
22	22 13C-1,2,3,7,8,9-HxCDD	1.22e6	1.26	NO	0.833	10.068	34.909	34.90	1.025	1.025	192.06	96.7	0.286	
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.37e5	1.05	NO	0.641	10.068	38.403	38.39	1.128	1.128	192.57	96.9	0.271	
24	24 13C-OCDD	1.58e6	0.90	NO	0.586	10.068	41.399	41.38	1.216	1.215	355.15	89.4	0.278	
25	25 13C-2,3,7,8-TCDF	1.82e6	0.78	NO	1.03	10.068	25.104	25.12	0.989	0.990	155.02	78.0	0.259	
26	26 13C-1,2,3,7,8-PeCDF	1.90e6	1.58	NO	0.845	10.068	29.829	29.83	1.176	1.175	198.05	99.7	0.347	
27	27 13C-2,3,4,7,8-PeCDF	1.86e6	1.59	NO	0.814	10.068	30.822	30.83	1.215	1.215	201.50	101	0.360	
28	28 13C-1,2,3,4,7,8-HxCDF	1.40e6	0.52	NO	1.00	10.068	33.667	33.65	0.989	0.988	183.32	92.3	0.370	
29	29 13C-1,2,3,6,7,8-HxCDF	1.52e6	0.51	NO	1.14	10.068	33.789	33.77	0.992	0.992	176.10	88.6	0.327	
30	30 13C-2,3,4,6,7,8-HxCDF	1.34e6	0.51	NO	1.02	10.068	34.358	34.36	1.009	1.009	172.88	87.0	0.364	
31	31 13C-1,2,3,7,8,9-HxCDF	1.24e6	0.49	NO	0.845	10.068	35.250	35.25	1.035	1.035	193.45	97.4	0.440	

Dataset: U:\WG12.PRO\Results\200516R1\200516R1-6B.qld

Last Altered: Friday, May 22, 2020 12:33:59 Pacific Daylight Time
Printed: Friday, May 22, 2020 12:35:21 Pacific Daylight Time

Name: 200516R1_6, Date: 16-May-2020, Time: 13:03:05, ID: 2000946-04 PDI-162SC-A-04-05-200424 11.77, Description: PDI-162SC-A-04-05-200424

#	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	1.07e6	0.43	NO	0.771	10.068	36.983	36.98	1.086	1.086	182.03	91.6	0.289	
33	13C-1,2,3,4,7,8,9-HpCDF	7.80e5	0.45	NO	0.482	10.068	38.995	38.98	1.145	1.145	213.07	107	0.462	
34	13C-OCDF	1.85e6	0.87	NO	0.669	10.068	41.569	41.57	1.221	1.221	364.08	91.6	0.214	
35	37Cl-2,3,7,8-TCDD	5.96e5			1.10	10.068	26.076	26.08	1.028	1.028	70.271	88.4	0.0474	
36	13C-1,2,3,4-TCDD	1.53e6	0.79	NO	1.00	10.068	25.350	25.38	1.000	1.000	198.65	100	0.200	
37	13C-1,2,3,4-TCDF	2.25e6	0.78	NO	1.00	10.068	23.560	23.59	1.000	1.000	198.65	100	0.267	
38	13C-1,2,3,4,6,9-HxCDF	1.51e6	0.52	NO	1.00	10.068	34.000	34.05	1.000	1.000	198.65	100	0.372	
39	Total Tetra-Dioxins				0.947	10.068	24.620		0.000		0.20038		0.0677	0.335
40	Total Penta-Dioxins				0.942	10.068	29.960		0.000		0.31540		0.0781	0.536
41	Total Hexa-Dioxins				0.915	10.068	33.635		0.000		2.5806		0.0811	2.58
42	Total Hepta-Dioxins				0.898	10.068	37.640		0.000		12.808		0.117	12.8
43	Total Tetra-Furans				0.787	10.068	23.610		0.000		5.2685		0.0737	5.88
44	1st Func. Penta-Furans				0.910	10.068	27.090		0.000		1.2117		0.0221	1.21
45	Total Penta-Furans				0.910	10.068	29.275		0.000		4.8318		0.0603	4.83
46	Total Hexa-Furans				0.922	10.068	33.555		0.000		6.3551		0.0490	6.36
47	Total Hepta-Furans				0.871	10.068	37.835		0.000		7.8262		0.0773	7.83

Quantify Totals Report MassLynx 4.1 SCN815

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-6B.qld

Last Altered: Friday, May 22, 2020 12:33:59 Pacific Daylight Time

Printed: Friday, May 22, 2020 12:35:21 Pacific Daylight Time

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: 200516R1_6, Date: 16-May-2020, Time: 13:03:05, ID: 2000946-04 PDI-162SC-A-04-05-200424 11.77, Description: PDI-162SC-A-04-05-200424

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.90	7.256e3	1.094e4	6.551e2	7.946e2	0.82	NO	1.450e3	0.20038	0.20038	0.0677
2	Total Tetra-Dioxins	23.79	7.772e3	6.706e3	6.087e2	5.492e2	1.11	YES	0.000e0	0.00000	0.13435	0.0677

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.90	8.455e3	9.544e3	4.631e2	7.600e2	0.61	NO	1.223e3	0.18675	0.18675	0.0781
2	Total Penta-Dioxins	29.35	7.030e3	3.293e4	5.591e2	2.374e3	0.24	YES	0.000e0	0.00000	0.22088	0.0781
3	Total Penta-Dioxins	29.89	6.215e3	1.094e4	3.101e2	5.325e2	0.58	NO	8.426e2	0.12865	0.12865	0.0781

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.05	6.836e4	5.732e4	3.451e3	2.707e3	1.27	NO	6.159e3	1.1254	1.1254	0.0811
2	Total Hexa-Dioxins	33.60	7.239e3	7.063e3	4.061e2	3.133e2	1.30	NO	7.193e2	0.13145	0.13145	0.0811
3	Total Hexa-Dioxins	33.86	4.615e4	3.490e4	2.725e3	2.070e3	1.32	NO	4.795e3	0.87622	0.87622	0.0811
4	1,2,3,6,7,8-HxCDD	34.63	1.445e4	1.141e4	8.210e2	6.837e2	1.20	NO	1.505e3	0.25266	0.25266	0.0737
5	1,2,3,7,8,9-HxCDD	34.92	1.030e4	8.834e3	6.142e2	4.811e2	1.28	NO	1.095e3	0.19484	0.19484	0.0826

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.38	2.668e5	2.513e5	1.600e4	1.560e4	1.03	NO	3.160e4	7.4591	7.4591	0.117
2	1,2,3,4,6,7,8-HpCDD	38.41	1.885e5	1.863e5	1.131e4	1.135e4	1.00	NO	2.266e4	5.3486	5.3486	0.117

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-6B.qld

Last Altered: Friday, May 22, 2020 12:33:59 Pacific Daylight Time

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Name: 200516R1_6, Date: 16-May-2020, Time: 13:03:05, ID: 2000946-04 PDI-162SC-A-04-05-200424 11.77, Description: PDI-162SC-A-04-05-200424

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.92	1.703e4	1.772e4	1.410e3	1.569e3	0.96	YES	0.000e0	0.00000	0.38566	0.0737
2	Total Tetra-Furans	21.86	1.587e4	2.171e4	1.569e3	2.094e3	0.75	NO	3.663e3	0.50854	0.50854	0.0737
3	Total Tetra-Furans	22.37	1.096e4	1.096e4	8.364e2	1.139e3	0.73	NO	1.975e3	0.27426	0.27426	0.0737
4	Total Tetra-Furans	23.49	7.377e3	9.435e3	6.116e2	7.893e2	0.77	NO	1.401e3	0.19449	0.19449	0.0737
5	Total Tetra-Furans	23.61	1.048e4	1.372e4	9.599e2	1.374e3	0.70	NO	2.334e3	0.32401	0.32401	0.0737
6	Total Tetra-Furans	24.13	6.807e4	7.967e4	5.662e3	7.226e3	0.78	NO	1.289e4	1.7894	1.7894	0.0737
7	Total Tetra-Furans	25.03	1.371e4	1.977e4	8.475e2	1.243e3	0.68	NO	2.090e3	0.29018	0.29018	0.0737
8	2,3,7,8-TCDF	25.14	6.907e4	9.965e4	5.709e3	7.886e3	0.72	NO	1.360e4	1.8876	1.8876	0.0737
9	Total Tetra-Furans	27.20	1.470e4	1.532e4	8.512e2	9.073e2	0.94	YES	0.000e0	0.00000	0.22296	0.0737

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	1.011e5	6.404e4	6.492e3	3.936e3	1.65	NO	1.043e4	1.2117	1.2117	0.0221

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	7.865e4	5.389e4	6.194e3	3.905e3	1.59	NO	1.010e4	1.1734	1.1734	0.0603
2	Total Penta-Furans	29.43	2.529e4	1.413e4	1.698e3	9.648e2	1.76	NO	2.663e3	0.30938	0.30938	0.0603
3	Total Penta-Furans	29.66	1.955e4	1.606e4	1.082e3	7.995e2	1.35	NO	1.882e3	0.21866	0.21866	0.0603
4	1,2,3,7,8-PeCDF	29.84	1.455e5	8.645e4	8.023e3	4.791e3	1.67	NO	1.281e4	1.4741	1.4741	0.0592
5	Total Penta-Furans	30.12	4.918e4	3.191e4	2.933e3	1.815e3	1.62	NO	4.748e3	0.55162	0.55162	0.0603
6	2,3,4,7,8-PeCDF	30.85	8.707e4	6.102e4	5.033e3	3.239e3	1.55	NO	8.272e3	0.91448	0.91448	0.0578
7	Total Penta-Furans	30.88	4.856e4	2.500e4	1.014e3	6.233e2	1.63	NO	1.637e3	0.19022	0.19022	0.0603

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-6B.qld

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Printed: Friday, May 22, 2020 12:35:21 Pacific Daylight Time

5.HD: 200 Name: 200516R1_6, Date: 16-May-2020, Time: 15:33:05, HD: 2000946-04 PDI: 162SC-A-04-05-200424 11.77, Description: PDI-162SC-A-04-05-200424

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.49	2.724e4	2.330e4	1.270e3	1.001e3	1.27	NO	2.270e3	0.35602	0.35602	0.0490
2	Total Hexa-Furans	32.65	7.087e4	5.989e4	3.273e3	2.762e3	1.19	NO	6.036e3	0.94642	0.94642	0.0490
3	Total Hexa-Furans	33.22	8.258e4	7.641e4	4.137e3	3.562e3	1.16	NO	7.699e3	1.2072	1.2072	0.0490
4	1,2,3,4,7,8-HxCDF	33.66	1.605e5	1.435e5	7.926e3	6.775e3	1.17	NO	1.470e4	2.3790	2.3790	0.0472
5	1,2,3,6,7,8-HxCDF	33.79	5.751e4	4.606e4	2.857e3	2.420e3	1.18	NO	5.277e3	0.78957	0.78957	0.0452
6	2,3,4,6,7,8-HxCDF	34.37	1.659e4	1.563e4	8.813e2	7.045e2	1.25	NO	1.586e3	0.25486	0.25486	0.0501
7	1,2,3,7,8,9-HxCDF	35.30	1.815e4	1.339e4	1.012e3	9.231e2	1.10	NO	1.935e3	0.35877	0.35877	0.0638
8	Total Hexa-Furans	35.33	6.291e3	6.958e3	2.231e2	1.800e2	1.24	NO	4.031e2	0.063215	0.063215	0.0490

Hepta-Furans

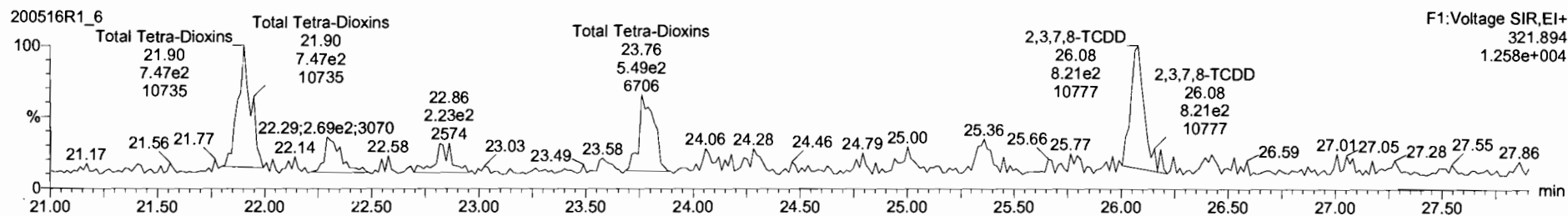
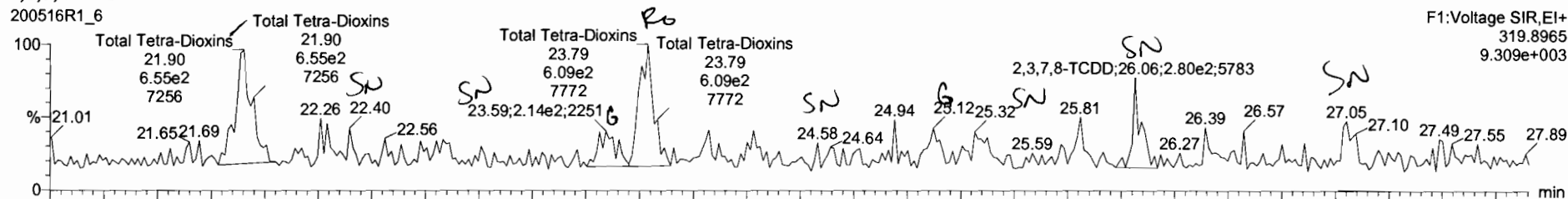
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.00	1.148e5	1.252e5	7.475e3	7.600e3	0.98	NO	1.509e4	3.2271	3.2271	0.0703
2	Total Hepta-Furans	37.59	1.374e5	1.322e5	8.475e3	8.248e3	1.03	NO	1.672e4	4.1337	4.1337	0.0773
3	1,2,3,4,7,8,9-HpCDF	39.00	1.729e4	1.717e4	8.866e2	9.612e2	0.92	NO	1.848e3	0.46541	0.46541	0.0749

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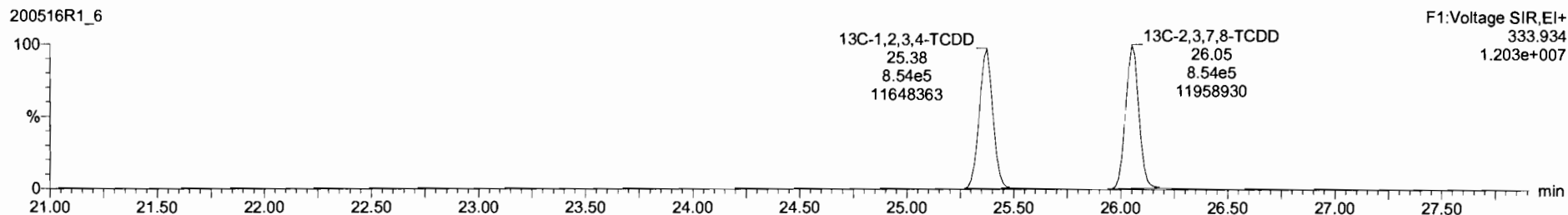
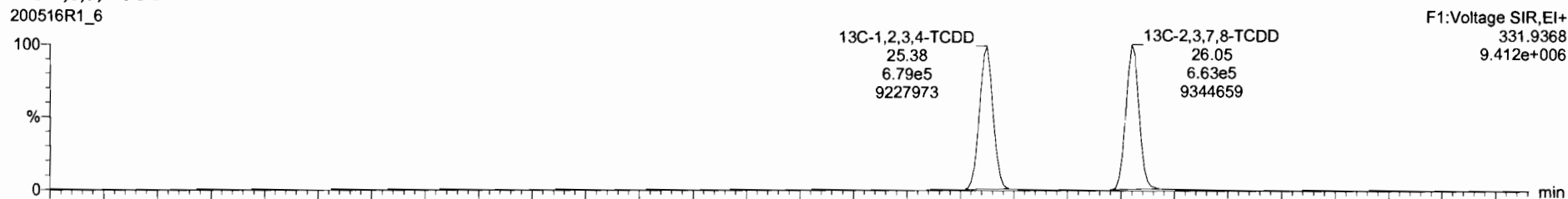
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Name: 200516R1_6, Date: 16-May-2020, Time: 13:03:05, ID: 2000946-04 PDI-162SC-A-04-05-200424 11.77, Description: PDI-162SC-A-04-05-200424

2,3,7,8-TCDD

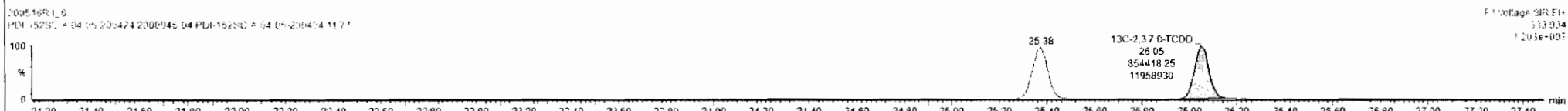
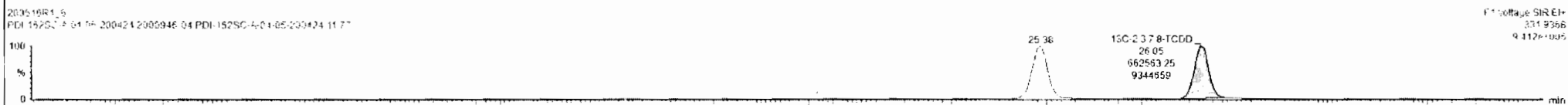
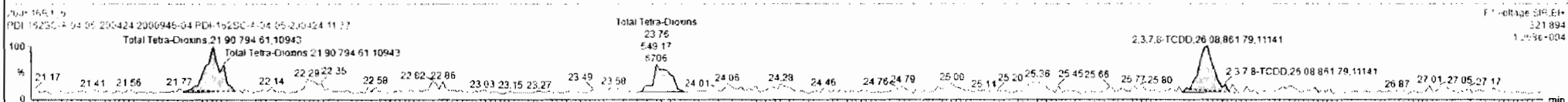
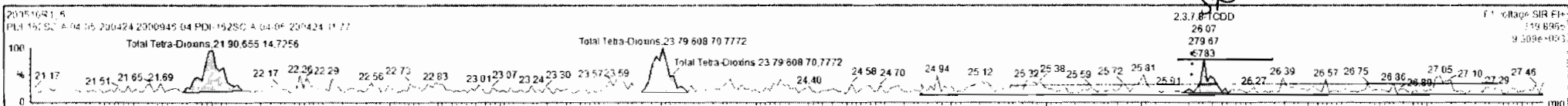


13C-2,3,7,8-TCDD



Name	Resp	RA	nly	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.068			0.200	0.0677	0.424	
40 Total Penta-Dioxins				0.9425	10.068			0.191	0.0781	0.511	
41 Total Hexa-Dioxins				0.9145	10.065			2.49	0.0811	2.56	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Tetra-Dioxins	21.90	6.551e2	7.945e2	0.62	NO	0.20038	0.20038
2 Total Tetra-Dioxins	23.79	6.087e2	5.492e2	1.11	YES	0.13435	0.00000
3 2,3,7,8-TCDD	26.07	2.797e2	6.618e2	0.32	ES	0.038854	0.00000



Custom Reporting: Select reports to generate

200516R1_6

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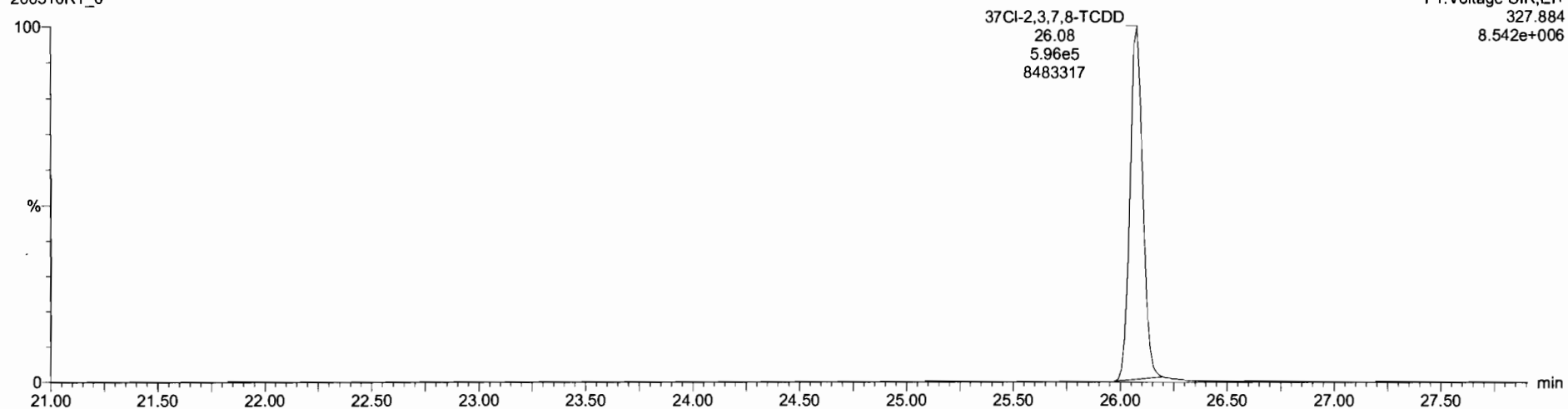
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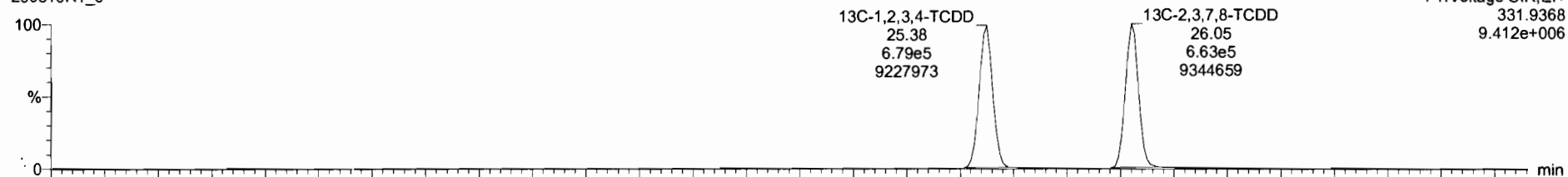
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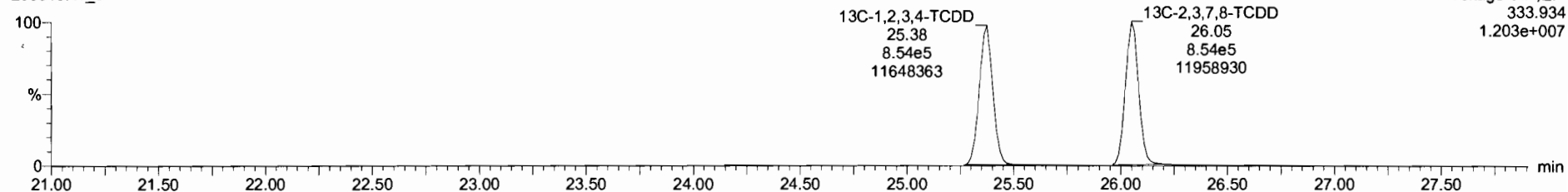


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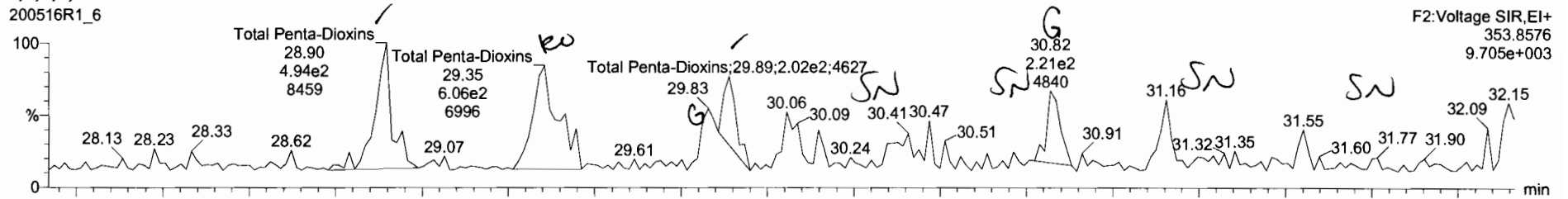
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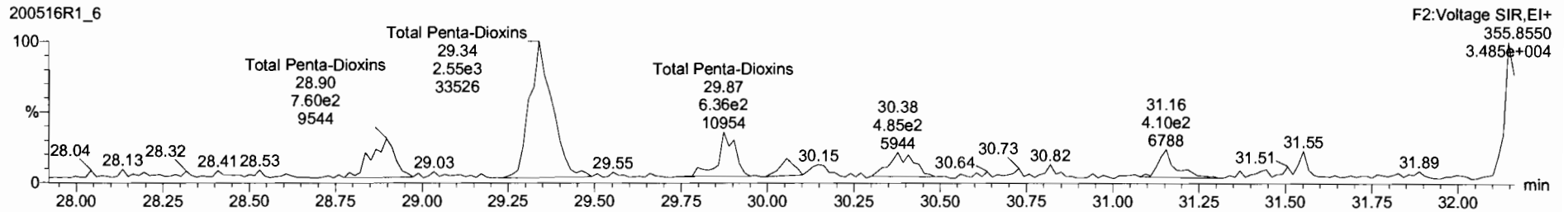
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1,2,3,7,8-PeCDD

200516R1_6

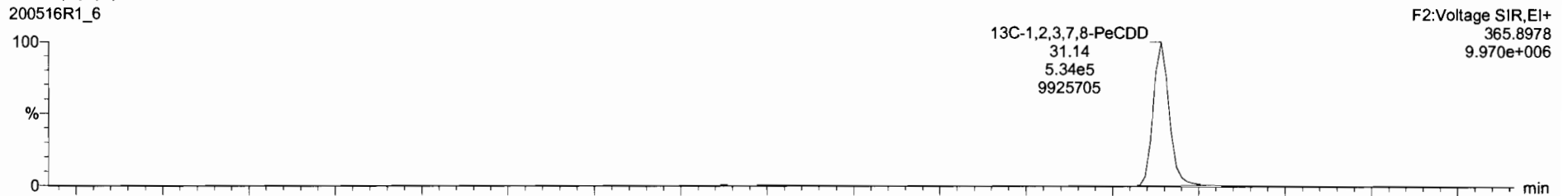


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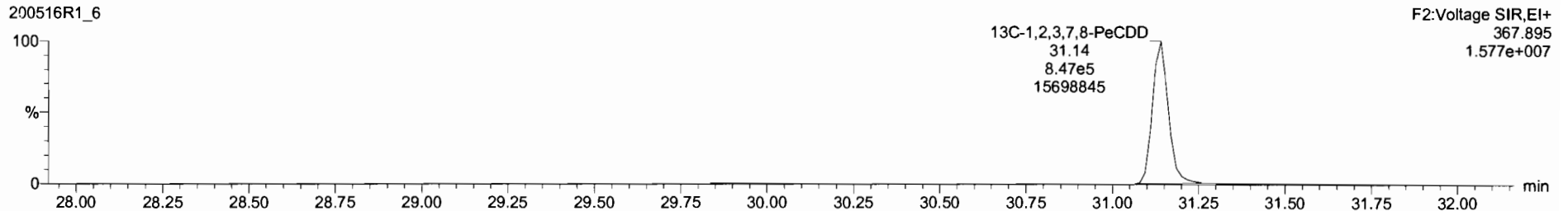


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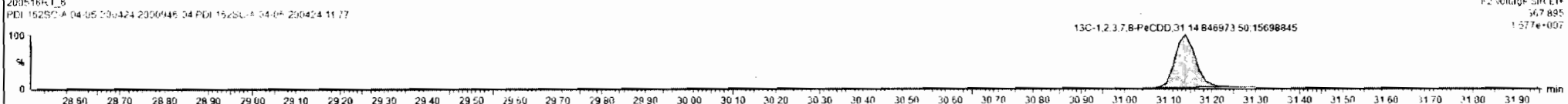
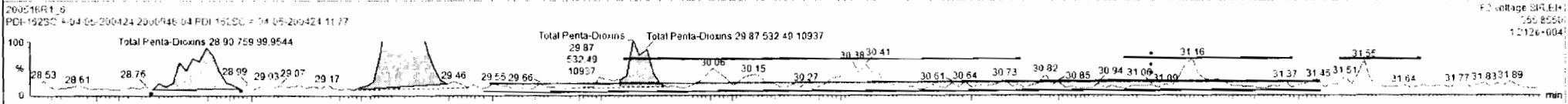
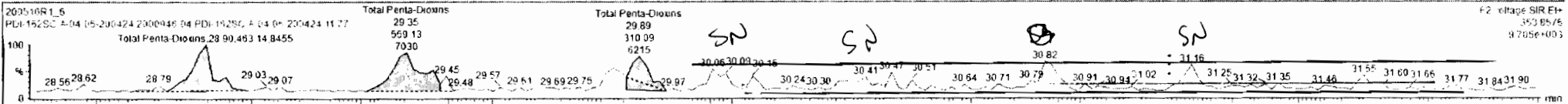


200516R1_6



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.068			0.200	0.0677	0.325	
40 Total Penta-Dioxins				0.9425	10.068			6.315	0.0781	0.536	
41 Total Hexa-Dioxins				0.9145	10.068			2.49	0.0811	2.56	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.90	4.631e2	7.600e2	0.61	NO	0.18675	0.18675
2 Total Penta-Dioxins	29.35	5.591e2	2.374e3	0.24	YES	0.22082	0.00000
3 Total Penta-Dioxins	29.89	3.101e2	5.325e2	0.56	NO	0.12665	0.12665



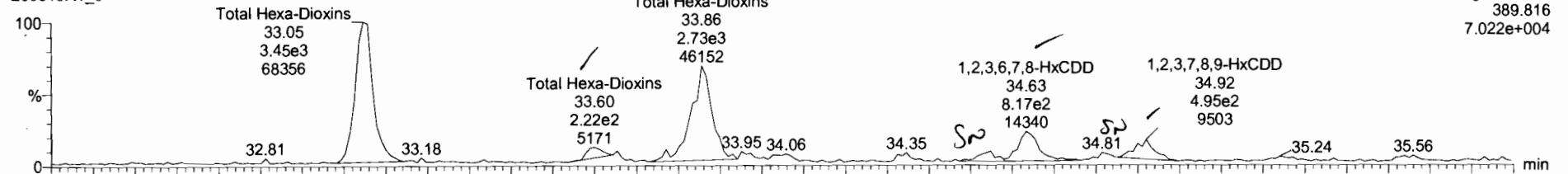
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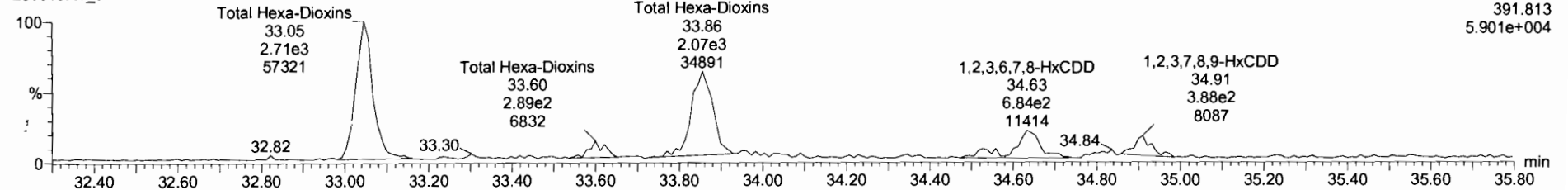
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1,2,3,4,7,8-HxCDD

200516R1_6

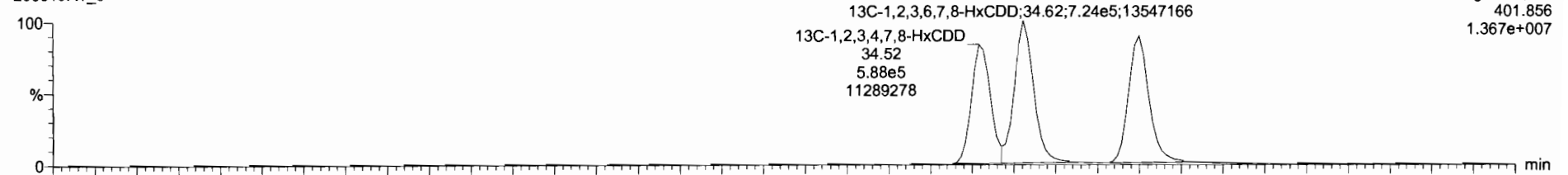


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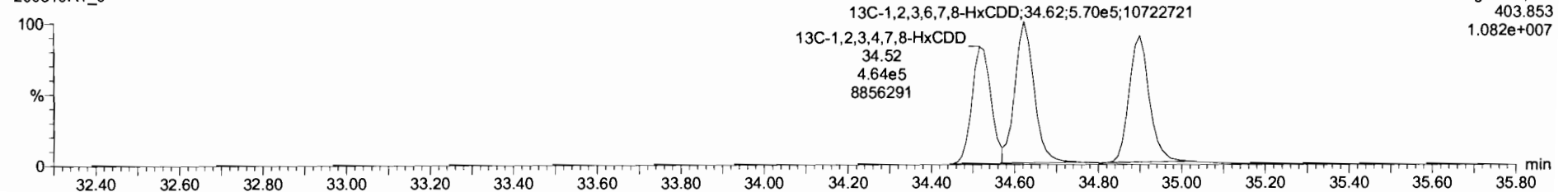


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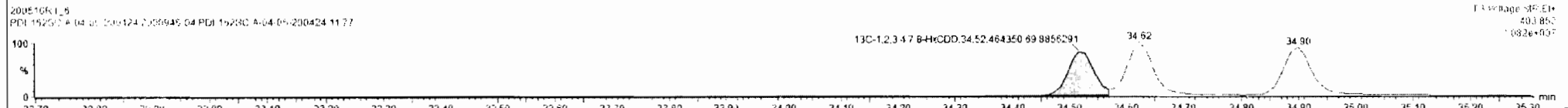
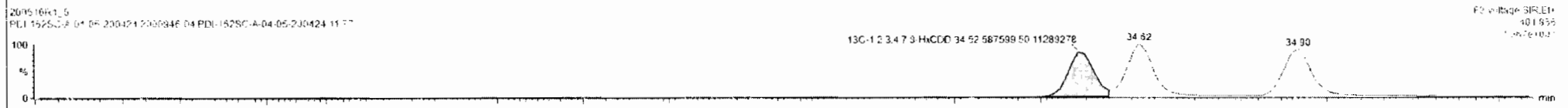
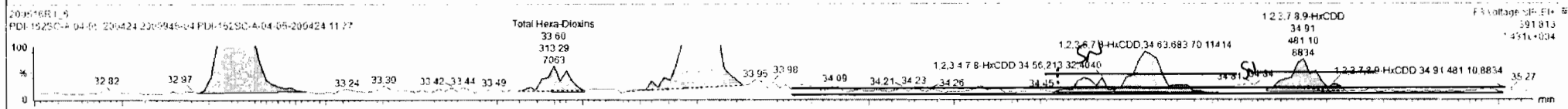
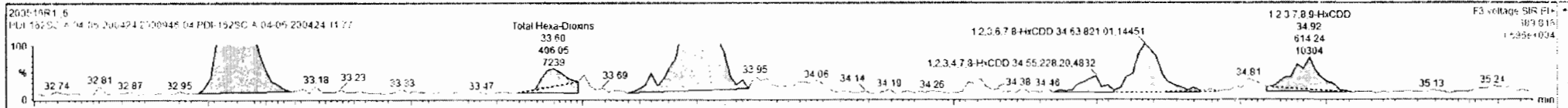


200516R1_6



Name	Resp	RA	n/y	RRF	wt/nl	RT	RRT	Conc.	%Rec.	DL	ENPC
39 Total Tetra-Dioxins				0.9475	10.065			0.200		0.0677	0.335
40 Total Penta-Dioxins				0.9425	10.065			0.315		0.0781	0.536
41 Total Hexa-Dioxins				0.9145	10.065			2.06		0.0911	2.68

Name	RT	m1 Resp	m2 Resp	RA	n/y	ENPC	Conc.
1 Total Hexa-Dioxins	33.05	2.451e3	2.707e3	1.27	NO	1.1254	1.1254
2 Total Hexa-Dioxins	33.60	4.061e2	3.133e2	1.30	NO	0.13145	0.13145
3 Total Hexa-Dioxins	33.96	2.725e3	2.070e3	1.32	NO	0.67622	0.67622
4 1,2,3,4,7,8-HxCDD	34.45	2.282e2	2.133e2	1.07	NO	0.078356	0.078356
5 1,2,3,7,8-HxCDD	34.63	8.210e2	6.837e2	1.20	NO	0.25766	0.25766
6 1,2,3,7,8-HxCDD	34.52	6.142e2	4.811e2	1.26	NO	0.15484	0.15484



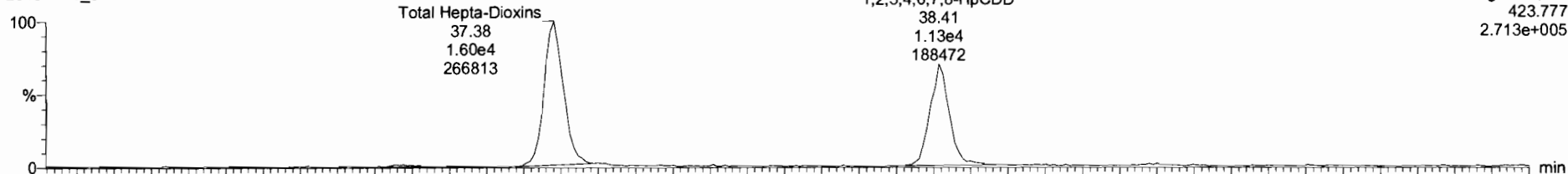
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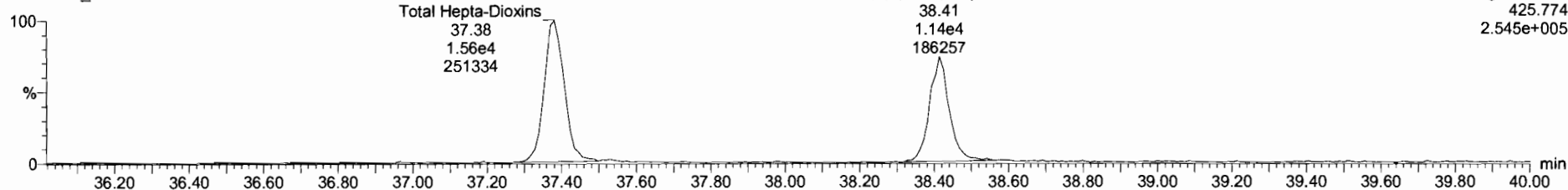
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1,2,3,4,6,7,8-HpCDD

200516R1_6

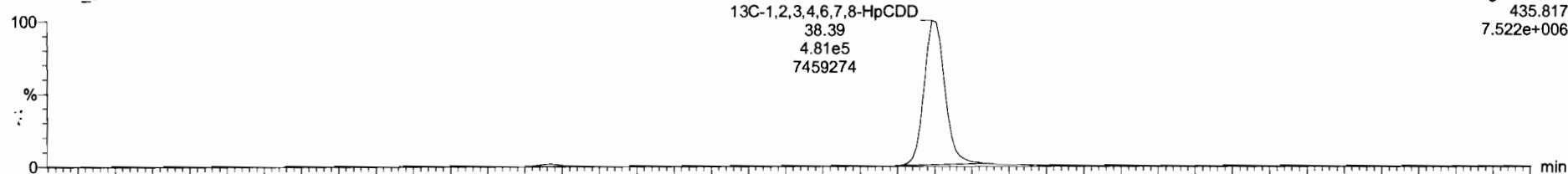


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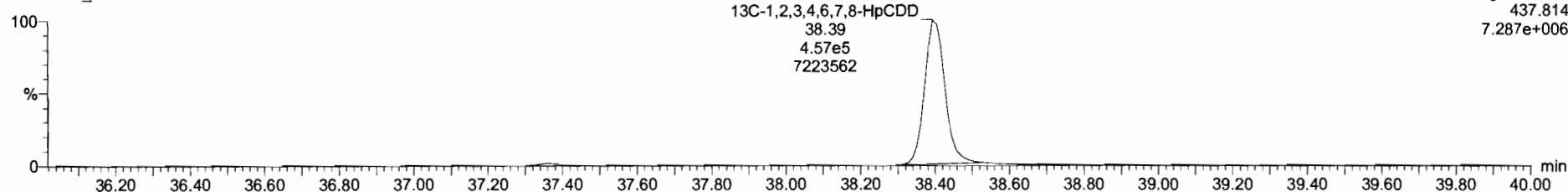


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200516R1_6



200516R1_6



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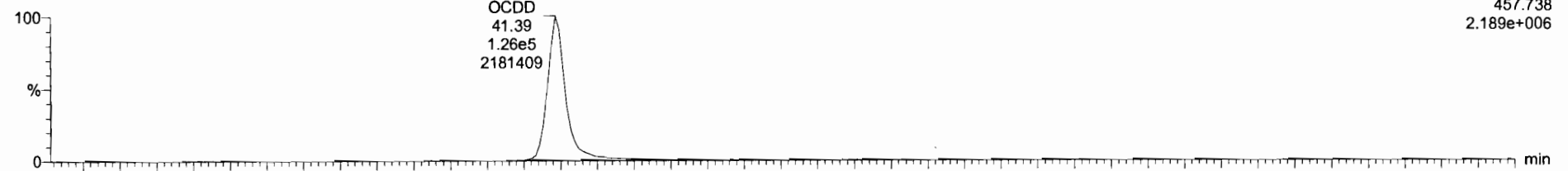
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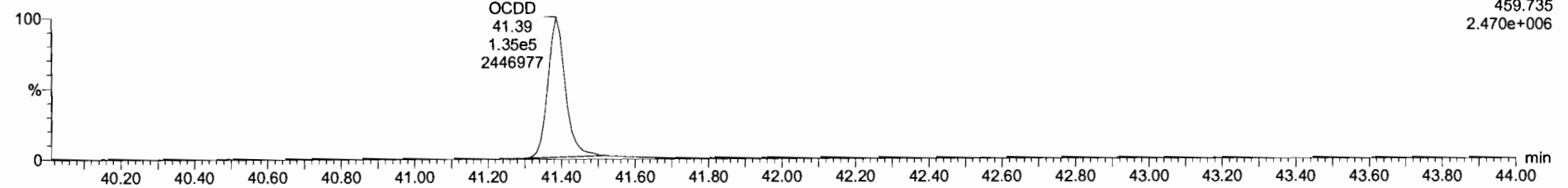
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OCDD

200516R1_6

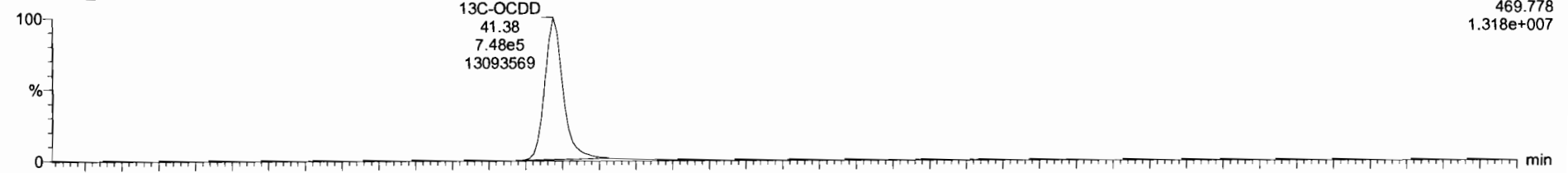


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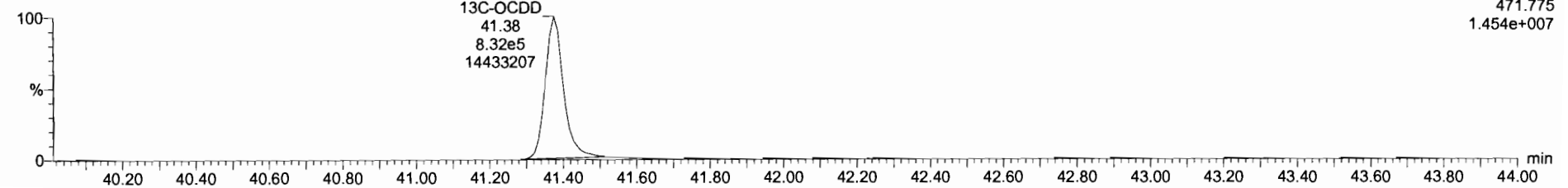


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200516R1_6

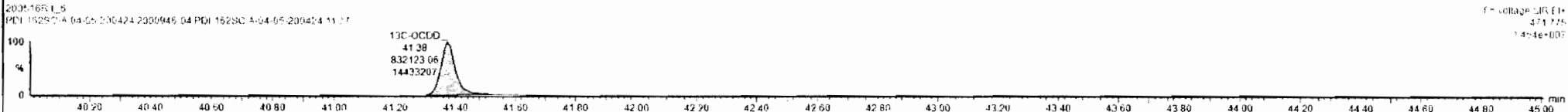
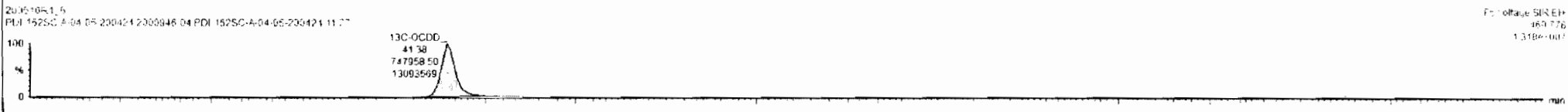
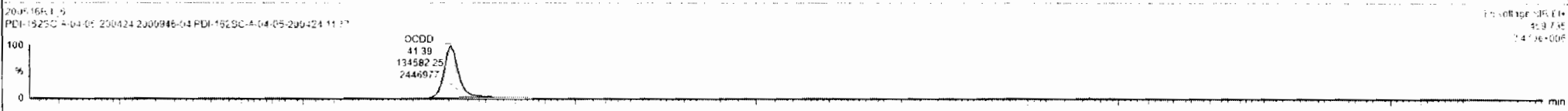
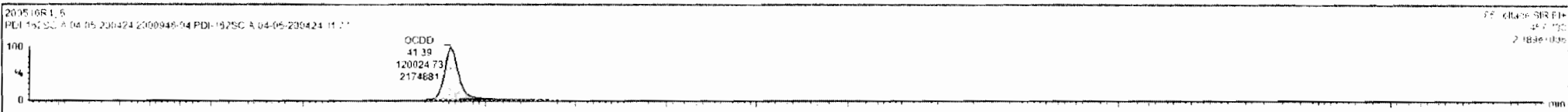


200516R1_6



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
7 OCDD	2.85e5	0.89	NO	0.9335	10.866	41.39	1.000	65.9		0.134	65.6
8 1,2,3,7,8-TCDF	1.36e4	0.73	NO	0.7871	10.065	25.14	1.001	1.88		0.0737	1.82
9 1,2,3,7,8-PeCDF	1.28e4	1.67	NO	0.9102	10.065	25.84	1.001	1.47		0.0592	1.47

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

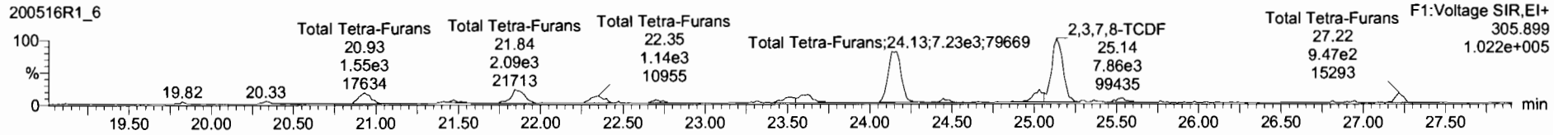
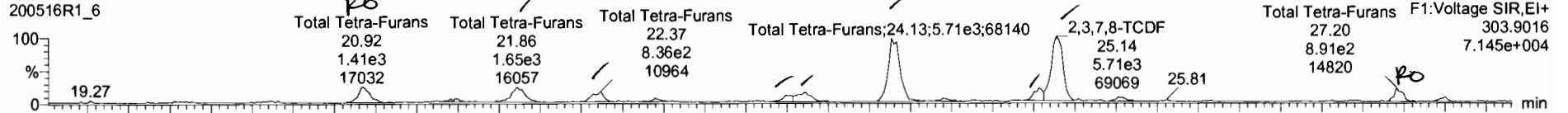


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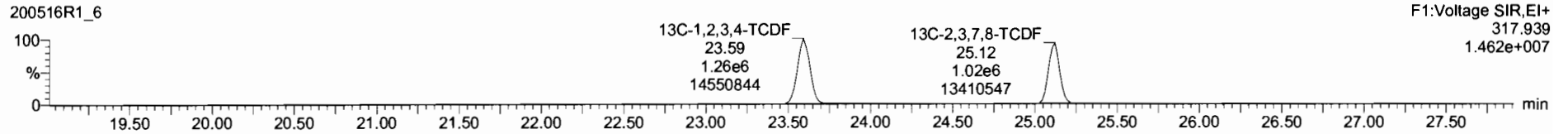
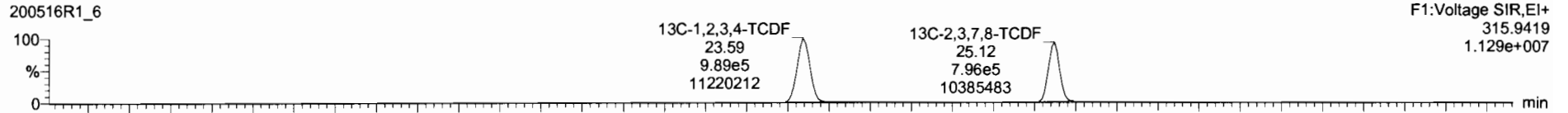
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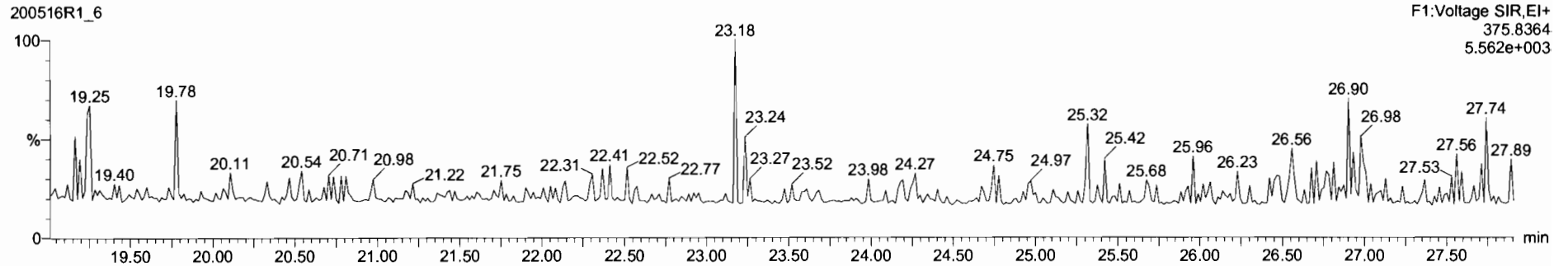
2,3,7,8-TCDF



1,2,3,7,8-TCDF

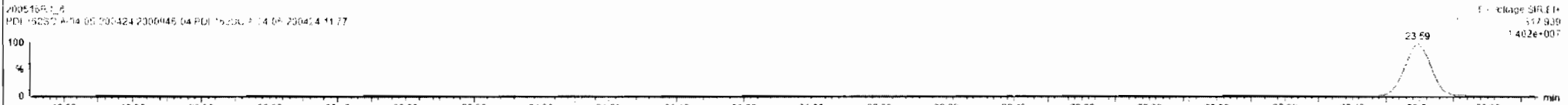
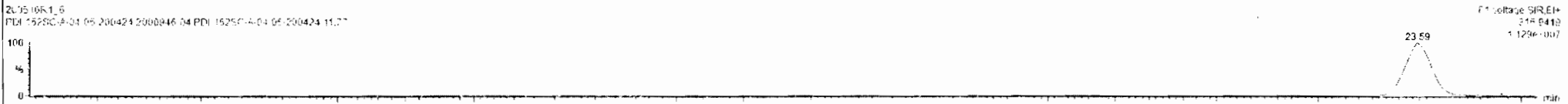
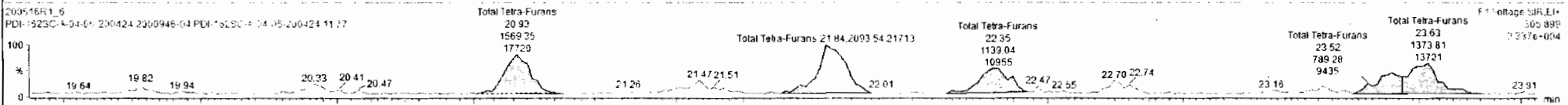
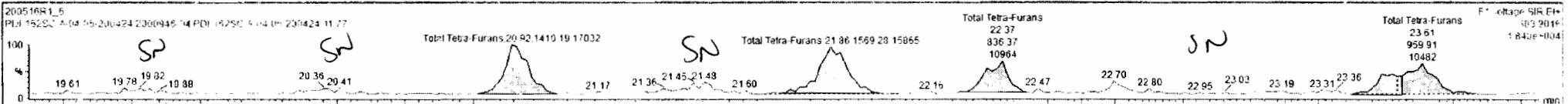


DPE1



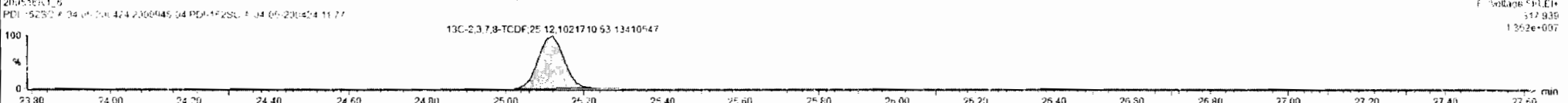
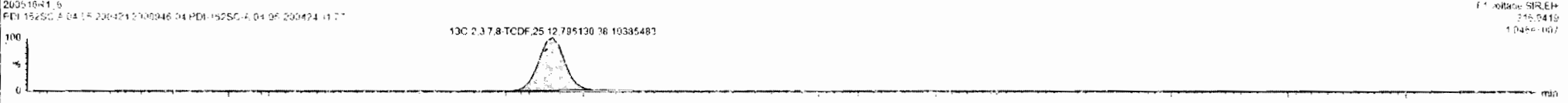
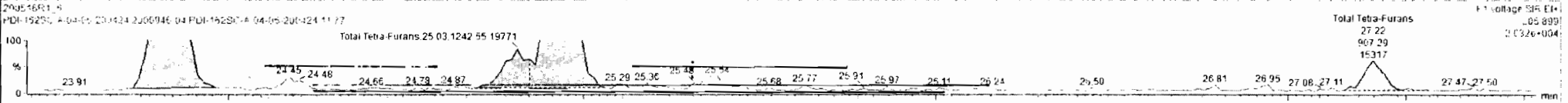
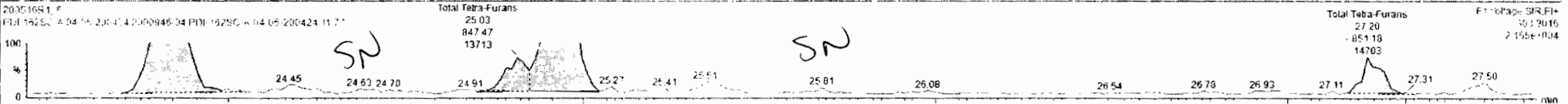
Name	Resp	RA	n/y	RF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.066			3.20		0.0737	0.06
44 1st Func. Penta-Furans				0.9152	10.068			1.21		0.0221	1.21
45 Total Penta-Furans				0.9102	10.068			4.81		0.0602	4.89

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.92	1.410e3	1.569e3	0.90	YES	0.36566	0.00000
2 Total Tetra-Furans	21.86	1.569e3	2.094e3	0.75	NO	0.50854	0.50854
3 Total Tetra-Furans	22.37	8.364e2	1.139e3	0.73	NO	0.27426	0.27426
4 Total Tetra-Furans	23.61	9.529e2	1.374e3	0.77	NO	0.19449	0.19449
5 Total Tetra-Furans	24.13	5.714e3	7.226e3	0.79	NO	1.7967	1.7967
6 Total Tetra-Furans	24.45	2.771e2	4.192e2	0.66	NO	0.096699	0.096699
8 Total Tetra-Furans	25.02	8.086e2	1.243e3	0.65	YES	0.25312	0.00000
9 2,3,7,8-TCDF	25.14	5.709e3	7.056e3	0.73	NO	1.8634	1.8634
10 Total Tetra-Furans	25.51	3.637e2	5.189e2	0.70	NO	0.12249	0.12249
11 Total Tetra-Furans	27.20	8.912e2	6.475e2	0.94	YES	0.23284	0.00000



Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.066			5.27	0.0737	5.88	
44 1st Func. Penta-Furans				0.9192	10.068			1.21	0.0221	1.21	
45 Total Penta-Furans				0.9102	10.068			4.81	0.0603	4.85	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.92	1.410e3	1.569e3	0.90	YES	0.32546	0.00000
2 Total Tetra-Furans	21.86	1.569e3	2.094e3	0.75	NO	0.50254	0.50254
3 Total Tetra-Furans	22.37	8.364e2	1.139e3	0.73	NO	0.27426	0.77426
4 Total Tetra-Furans	23.45	6.116e2	7.897e2	0.77	NO	0.19449	0.15449
5 Total Tetra-Furans	23.61	9.599e2	1.374e3	0.70	NO	0.27401	0.32401
6 Total Tetra-Furans	24.12	5.962e2	7.226e3	0.76	NO	1.7894	1.7894
7 Total Tetra-Furans	25.03	8.475e2	1.243e3	0.68	NO	0.29018	0.29018
8 2,3,7,8-TCDF	25.14	5.799e3	7.386e3	0.72	NO	1.6276	1.5876
9 Total Tetra-Furans	27.20	6.112e2	9.073e2	0.94	YES	0.22596	0.00000



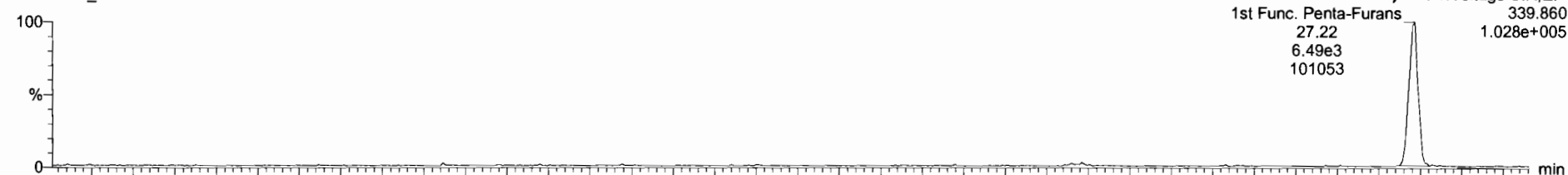
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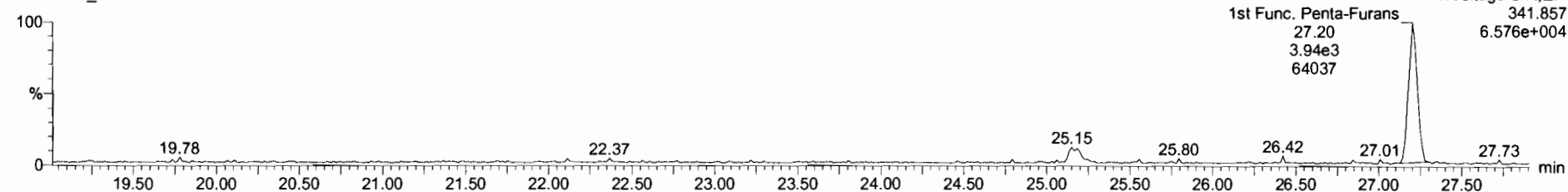
Name: 200516R1_6, Date: 16-May-2020, Time: 13:03:05, ID: 2000946-04 PDI-162SC-A-04-05-200424 11.77, Description: PDI-162SC-A-04-05-200424

1st Func. Penta-Furans

200516R1_6

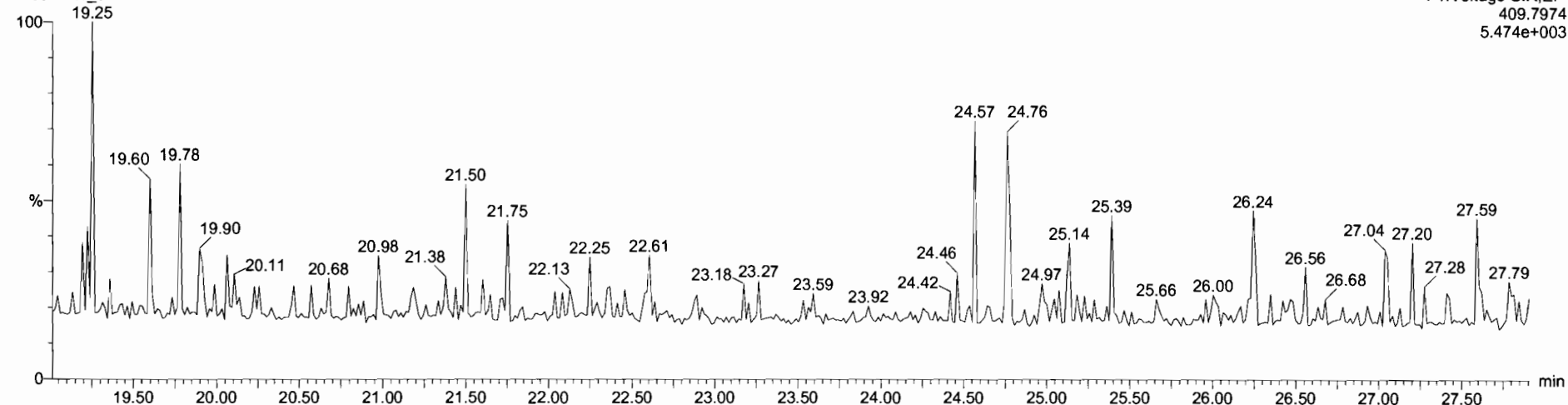


200516R1_6



DPE6

200516R1_6

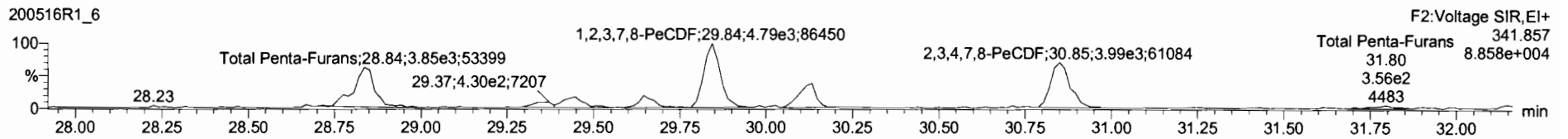
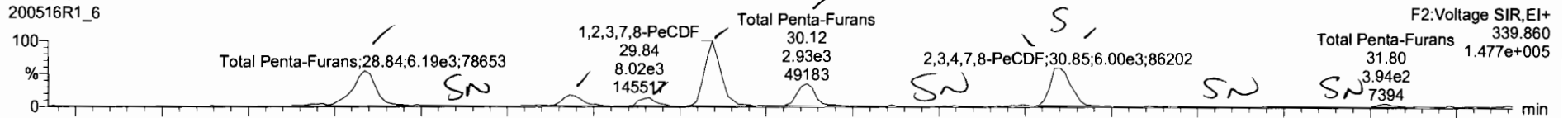


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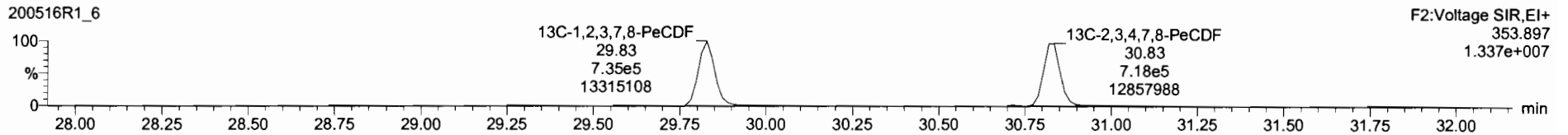
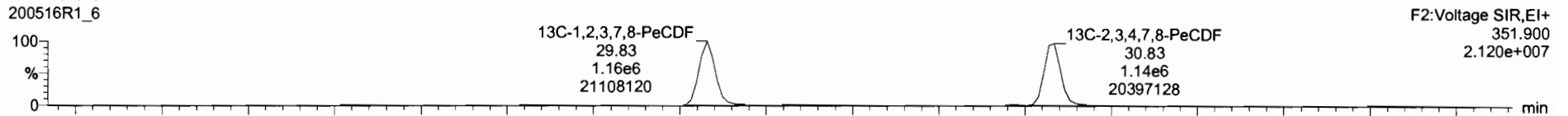
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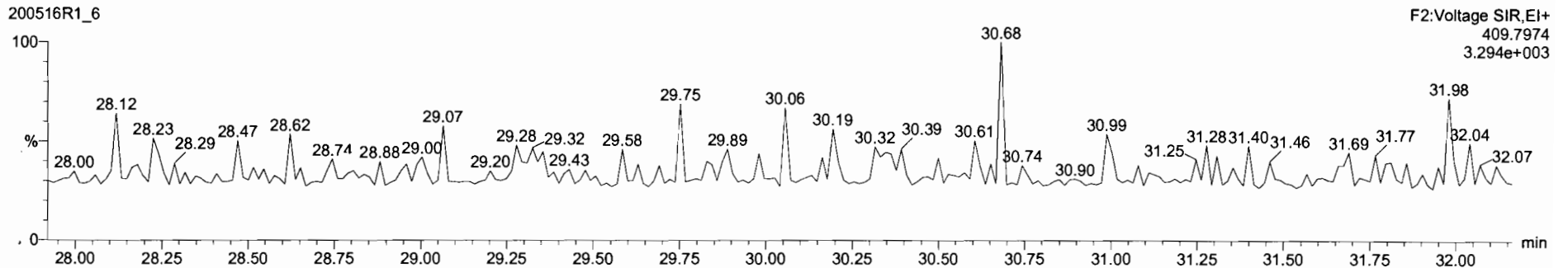
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13C-1,2,3,7,8-PeCDF

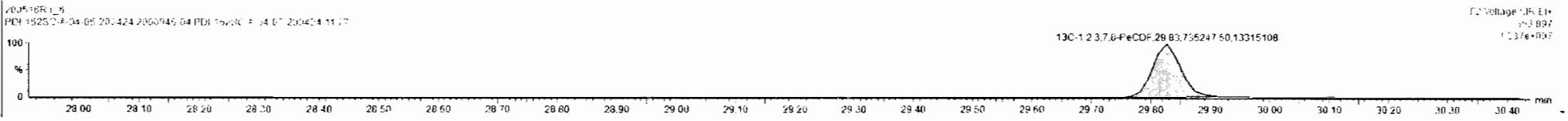
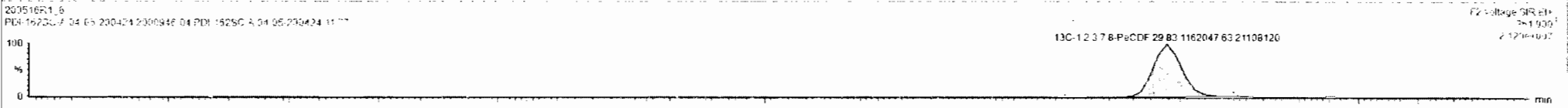
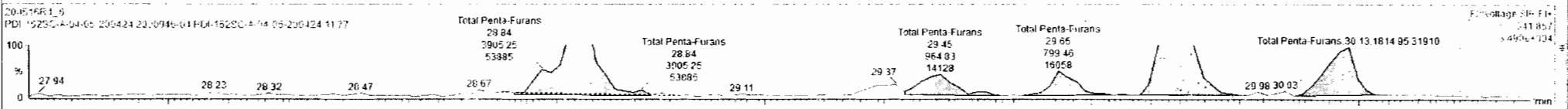
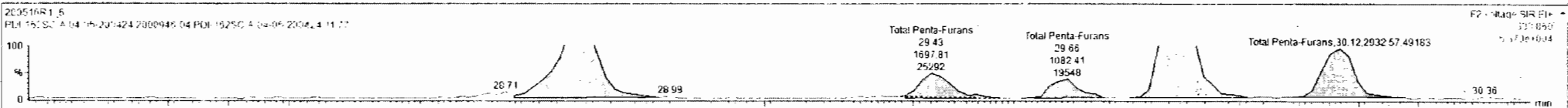


DPE2



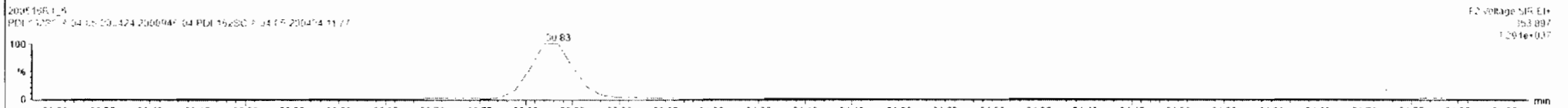
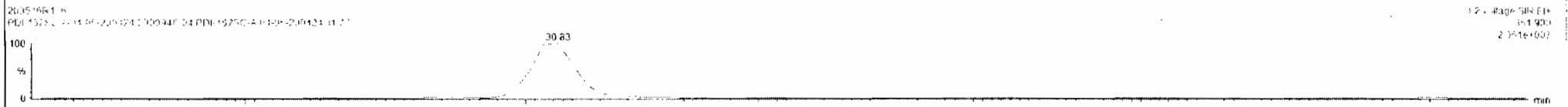
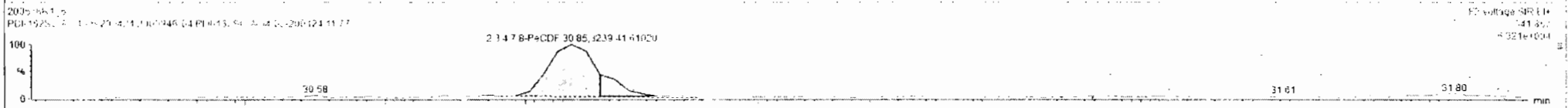
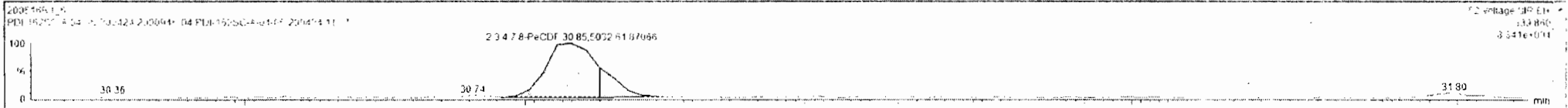
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.065			5.27		0.0727	5.68
44 1st Func. Penta-Furans				0.9102	10.065			1.21		0.0221	1.21
45 Total Penta-Furans				0.9162	10.065			4.82		0.0603	4.91

Name	RT	m1 Resp	m2 Resp	RA	n/y	E#PC	Conc.
1 Total Penta-Furans	28.84	6.15e+3	3.90e+3	1.95	NO	1.1734	1.1734
2 Total Penta-Furans	29.43	1.698e3	9.648e2	1.76	NO	0.30938	0.30938
3 Total Penta-Furans	29.66	1.062e3	7.995e2	1.25	NO	0.21866	0.21866
4 1,2,3,7,8-PeCDF	29.64	8.023e3	4.791e3	1.67	NO	1.4741	1.4741
5 Total Penta-Furans	30.12	2.513e3	1.815e3	1.62	NO	0.55162	0.55162
6 2,3,4,7,8-PeCDF	30.85	6.003e3	3.994e3	1.50	NO	1.1052	1.1052
7 Total Penta-Furans	31.80	3.958e2	3.563e2	1.11	YES	0.075282	0.00000



Name	Resp	RA	n/y	RRF	wIvol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	16.068			4.83		0.0603	4.83
46 Total Hexa-Furans				0.9217	10.068			E.3E		0.0490	E.3E

Name	RT	m1 Resp	m2 Resp	RA	n/y	ENPC	Conc
1 Total Penta-Furans	28.64	6.154e3	3.595e3	1.55	NO	1.1734	1.1734
2 Total Penta-Furans	29.42	1.659e3	9.645e2	1.76	NO	0.30908	0.30908
3 Total Penta-Furans	29.96	1.062e2	7.995e2	1.25	NO	0.21966	0.21966
4 1,2,3,7,8-PeCDF	29.84	8.020e2	4.791e3	1.67	NO	1.4741	1.4741
5 Total Penta-Furans	30.12	2.933e3	1.815e3	1.62	NO	0.55162	0.55162
6 2,3,4,7,8-PeCDF	30.85	5.037e3	2.279e3	1.55	NO	0.91446	0.91446
7 Total Penta-Furans	30.83	1.014e2	6.233e2	1.63	NO	0.19022	0.19022

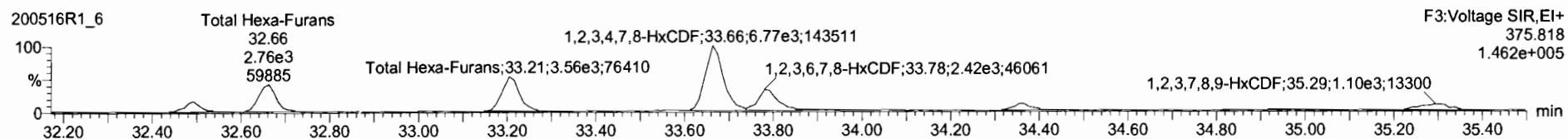
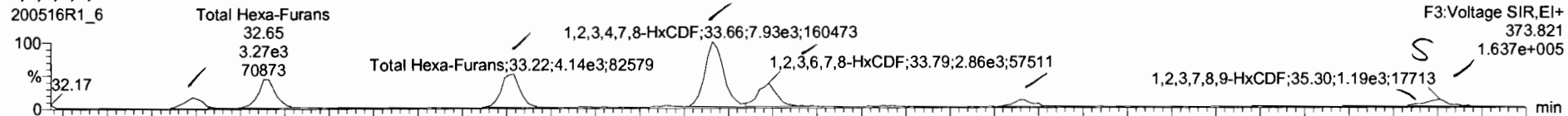


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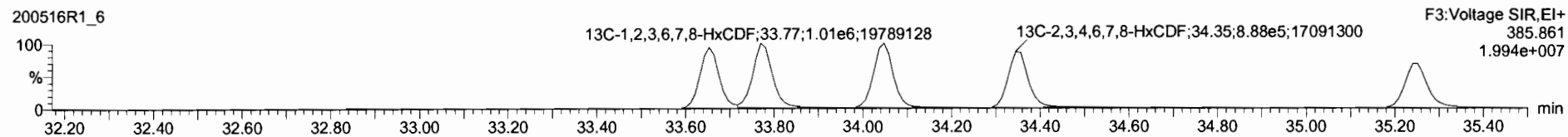
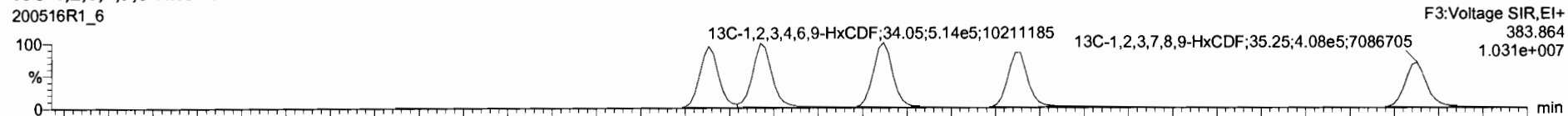
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Name: 200516R1_6, Date: 16-May-2020, Time: 13:03:05, ID: 2000946-04 PDI-162SC-A-04-05-200424 11.77, Description: PDI-162SC-A-04-05-200424

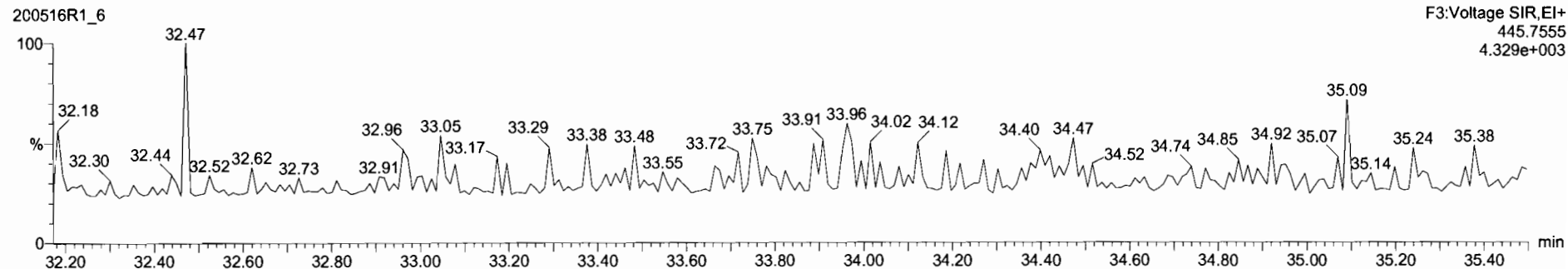
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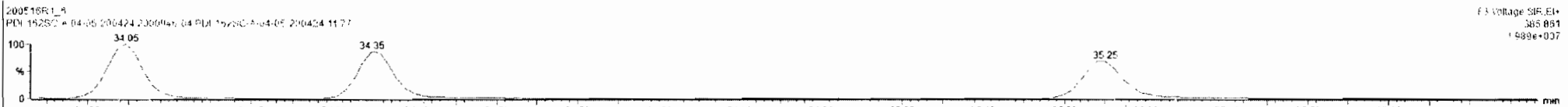
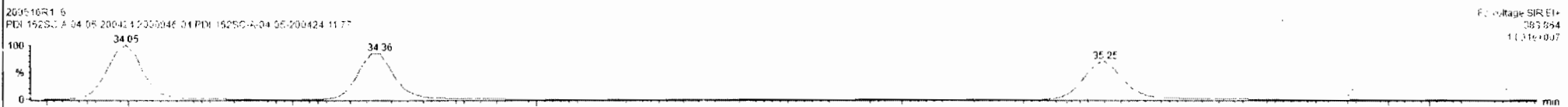
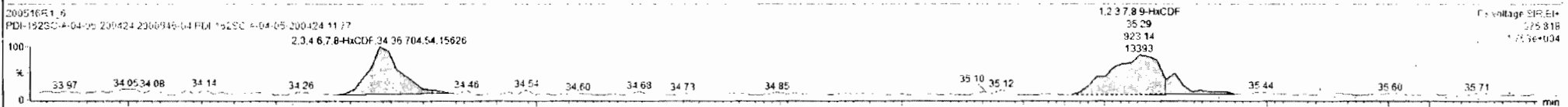
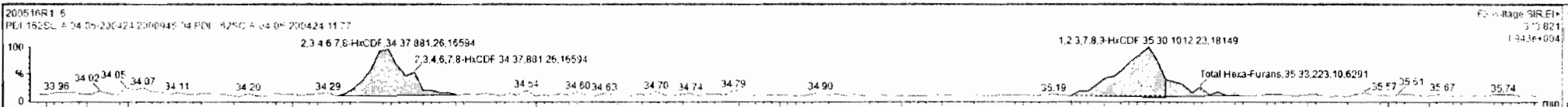


DPE3



Name	Resp	RA	n/y	RHF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.068			5.27		0.0737	5.68
44 1st Func. Penta-Furans				0.9102	10.068			1.21		0.0221	1.21
45 Total Penta-Furans				0.9102	10.068			4.87		0.0602	4.07

Name	RT	mt Resp	mc Resp	RA	n/y	EMPC	CWC
1 Total Hexa-Furans	32.49	1.270e3	1.001e3	1.27	NO	0.35602	0.35602
2 Total Hexa-Furans	32.65	2.272e3	2.762e3	1.19	NO	0.94642	0.94642
3 Total Hexa-Furans	33.22	4.137e3	3.562e3	1.16	NO	1.2072	1.2072
4 1,2,3,4,7,8-HxCDF	33.66	7.926e3	6.775e3	1.17	NO	2.3790	2.3790
5 1,2,3,6,7,8-HxCDF	33.79	2.857e3	2.420e3	1.18	NO	0.78967	0.78967
6 2,3,4,6,7,8-HxCDF	34.37	6.812e2	7.045e2	1.25	NO	0.25486	0.25486
7 1,2,3,7,8,9-HxCDF	35.30	1.012e2	4.231e2	1.10	NO	0.35877	0.35877
8 Total Hexa-Furans	35.32	2.231e2	1.800e2	1.24	NO	0.063215	0.063215



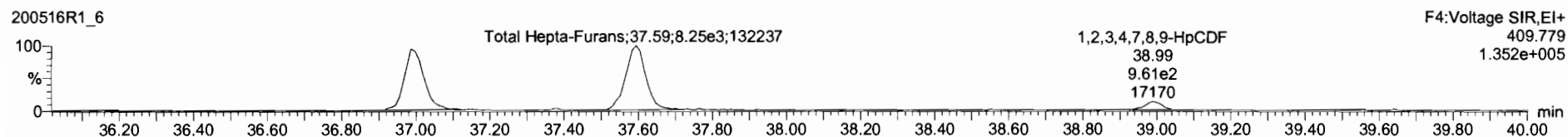
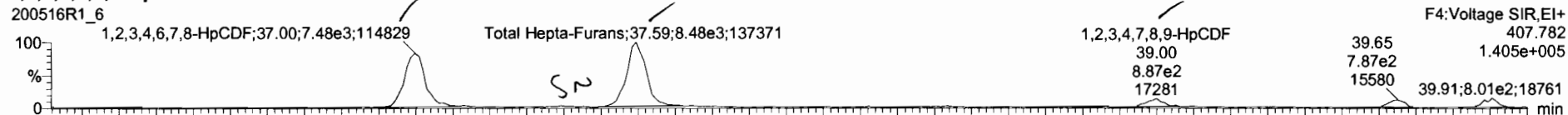
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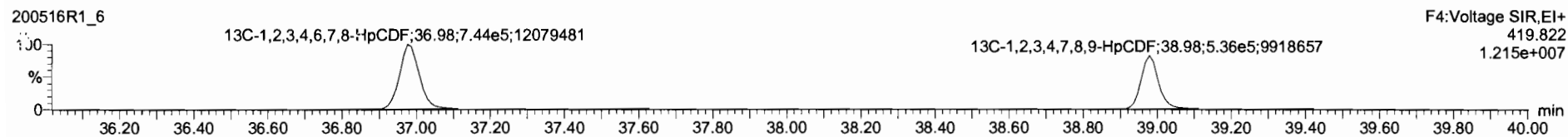
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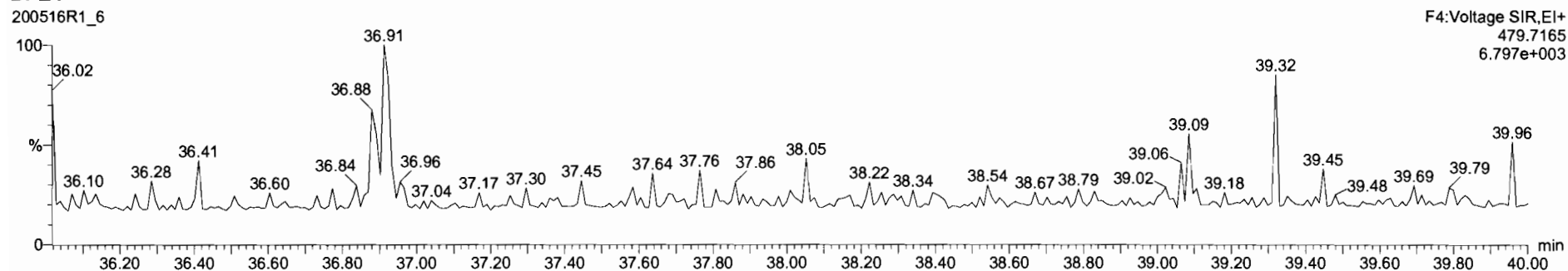
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13C-1,2,3,4,6,7,8-HpCDF



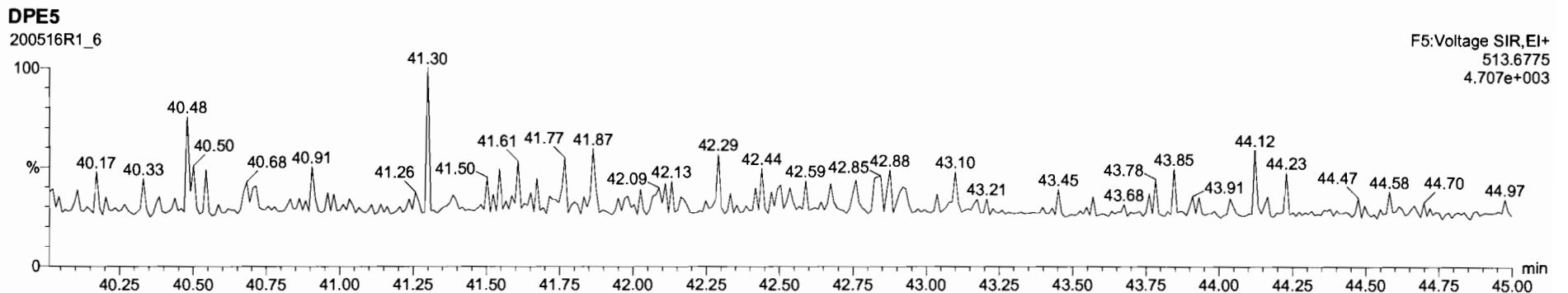
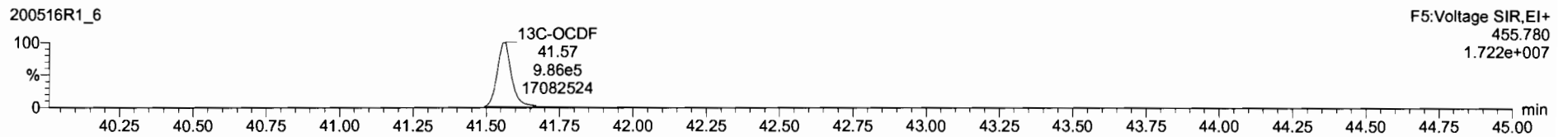
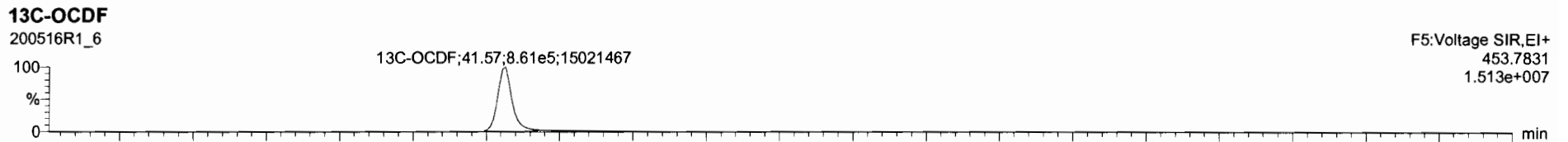
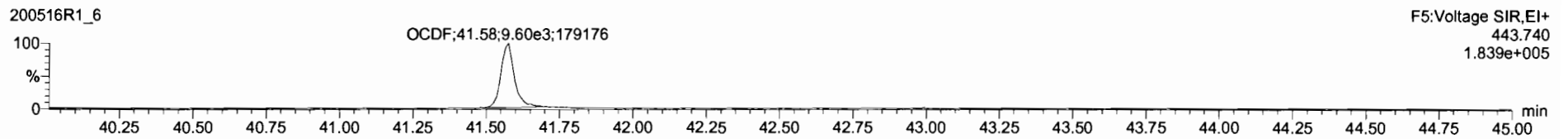
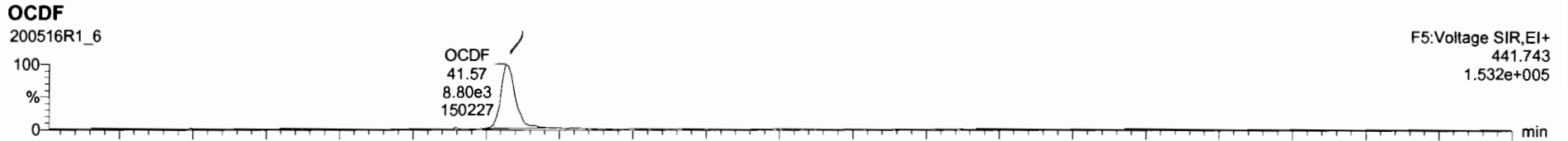
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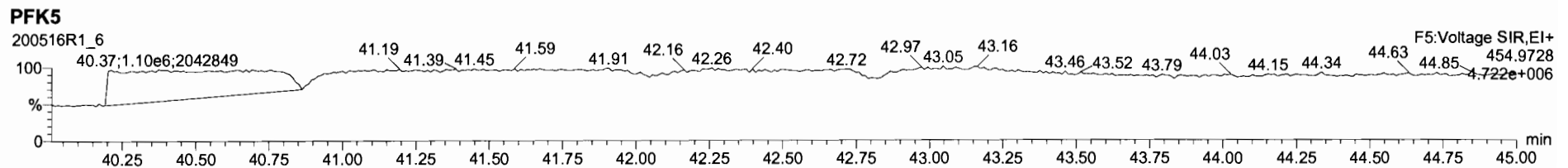
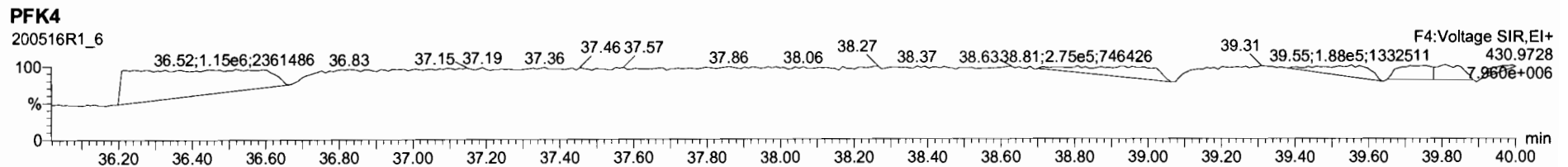
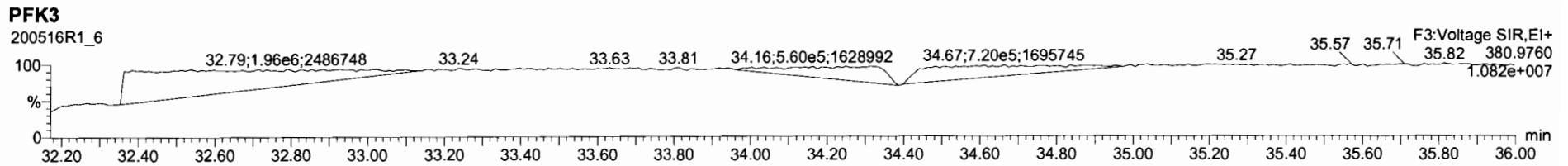
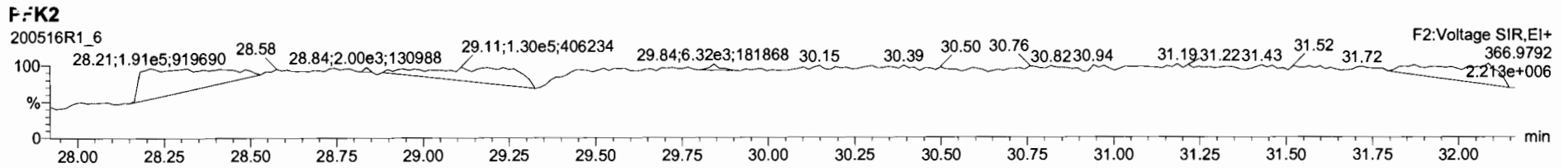
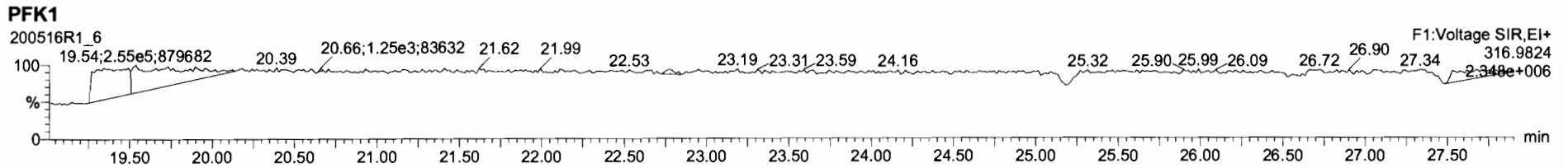
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Name: 200516R1_6, Date: 16-May-2020, Time: 13:03:05, ID: 2000946-04 PDI-162SC-A-04-05-200424 11.77, Description: PDI-162SC-A-04-05-200424



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GRB 05/18/2020

GTOS/22/2020

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1	1 2,3,7,8-TCDD			NO	0.947	10.340	26.080		1.001				0.0390	
2	2 1,2,3,7,8-PeCDD	4.33e2	0.71	NO	0.942	10.340	31.162	31.16	1.001	1.000	0.051184		0.0520	0.0512
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.340	34.526		1.000				0.0525	
4	4 1,2,3,6,7,8-HxCDD	6.65e2	1.12	NO	0.915	10.340	34.623	34.64	1.000	1.001	0.089347		0.0537	0.0893
5	5 1,2,3,7,8,9-HxCDD	7.21e2	1.15	NO	0.915	10.340	34.899	34.91	1.000	1.001	0.10543		0.0597	0.105
6	6 1,2,3,4,6,7,8-HpCDD	7.11e3	1.10	NO	0.898	10.340	38.415	38.41	1.000	1.000	1.3485		0.0702	1.35
7	7 OCDD	6.02e4	0.88	NO	0.933	10.340	41.386	41.40	1.000	1.000	12.733		0.0904	12.7
8	8 2,3,7,8-TCDF	1.12e3	0.84	NO	0.787	10.340	25.147	25.15	1.001	1.001	0.11567		0.0334	0.116
9	9 1,2,3,7,8-PeCDF	1.23e3	1.64	NO	0.910	10.340	29.834	29.83	1.001	1.000	0.10980		0.0404	0.110
10	10 2,3,4,7,8-PeCDF	1.08e3	1.92	YES	0.966	10.340	30.850	30.85	1.001	1.001	0.094239		0.0344	0.0822
11	11 1,2,3,4,7,8-HxCDF	1.55e3	1.09	NO	0.878	10.340	33.653	33.65	1.000	1.000	0.20324		0.0293	0.203
12	12 1,2,3,6,7,8-HxCDF	6.93e2	1.44	YES	0.874	10.340	33.780	33.78	1.000	1.000	0.085538		0.0261	0.0785
13	13 2,3,4,6,7,8-HxCDF	3.09e2	1.20	NO	0.922	10.340	34.380	34.38	1.001	1.001	0.038279		0.0287	0.0383
14	14 1,2,3,7,8,9-HxCDF	3.14e2	0.41	YES	0.864	10.340	35.240	35.25	1.000	1.000	0.047859		0.0398	0.0251
15	15 1,2,3,4,6,7,8-HpCDF	2.74e3	0.86	YES	0.871	10.340	37.013	36.98	1.001	1.000	0.48999		0.0639	0.445
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.340	38.979		1.000				0.0628	
17	17 OCDF	3.17e3	0.91	NO	0.802	10.340	41.567	41.58	1.000	1.000	0.69683		0.0564	0.697
18	18 13C-2,3,7,8-TCDD	1.94e6	0.78	NO	1.16	10.340	26.046	26.05	1.026	1.027	189.76	98.1	0.180	
19	19 13C-1,2,3,7,8-PeCDD	1.74e6	0.63	NO	0.847	10.340	31.141	31.14	1.227	1.227	232.06	120	0.250	
20	20 13C-1,2,3,4,7,8-HxCDD	1.28e6	1.27	NO	0.750	10.340	34.517	34.52	1.014	1.014	201.13	104	0.269	
21	21 13C-1,2,3,6,7,8-HxCDD	1.57e6	1.27	NO	0.963	10.340	34.629	34.62	1.017	1.017	192.36	99.5	0.209	
22	22 13C-1,2,3,7,8,9-HxCDD	1.45e6	1.25	NO	0.838	10.340	34.898	34.89	1.025	1.025	202.99	105	0.240	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.14e6	1.03	NO	0.641	10.340	38.390	38.40	1.128	1.128	208.32	108	0.287	
24	24 13C-OCDD	1.96e6	0.89	NO	0.586	10.340	41.386	41.39	1.216	1.216	393.12	102	0.250	
25	25 13C-2,3,7,8-TCDF	2.37e6	0.78	NO	1.03	10.340	25.104	25.12	0.989	0.990	185.46	95.9	0.203	
26	26 13C-1,2,3,7,8-PeCDF	2.38e6	1.58	NO	0.845	10.340	29.829	29.81	1.176	1.175	228.38	118	0.375	
27	27 13C-2,3,4,7,8-PeCDF	2.30e6	1.58	NO	0.814	10.340	30.822	30.82	1.215	1.214	229.22	119	0.389	
28	28 13C-1,2,3,4,7,8-HxCDF	1.68e6	0.51	NO	1.00	10.340	33.656	33.65	0.989	0.989	196.53	102	0.320	
29	29 13C-1,2,3,6,7,8-HxCDF	1.79e6	0.51	NO	1.14	10.340	33.778	33.77	0.992	0.992	185.64	96.0	0.283	
30	30 13C-2,3,4,6,7,8-HxCDF	1.69e6	0.52	NO	1.02	10.340	34.347	34.35	1.009	1.009	194.89	101	0.315	
31	31 13C-1,2,3,7,8,9-HxCDF	1.47e6	0.52	NO	0.845	10.340	35.239	35.24	1.035	1.035	204.44	106	0.381	

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-7.qld

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Name: 200516R1_7, Date: 16-May-2020, Time: 13:49:17, ID: 2000946-05 PDI-162SC-A-05-06-200424 11.48, Description: PDI-162SC-A-05-06-200424

#	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	1.24e6	0.44	NO	0.771	10.340	36.971	36.98	1.086	1.086	189.24	97.8	0.246	
33	13C-1,2,3,4,7,8,9-HpCDF	9.26e5	0.43	NO	0.482	10.340	38.983	38.98	1.145	1.145	225.86	117	0.393	
34	13C-OCDF	2.20e6	0.87	NO	0.669	10.340	41.556	41.57	1.221	1.221	386.35	99.9	0.217	
35	37Cl-2,3,7,8-TCDD	7.31e5			1.10	10.340	26.076	26.08	1.028	1.028	75.365	97.4	0.0353	
36	13C-1,2,3,4-TCDD	1.71e6	0.80	NO	1.00	10.340	25.350	25.38	1.000	1.000	193.42	100	0.208	
37	13C-1,2,3,4-TCDF	2.39e6	0.78	NO	1.00	10.340	23.560	23.61	1.000	1.000	193.42	100	0.210	
38	13C-1,2,3,4,6,9-HxCDF	1.64e6	0.51	NO	1.00	10.340	34.000	34.04	1.000	1.000	193.42	100	0.322	
39	Total Tetra-Dioxins				0.947	10.340	24.620		0.000		0.083682		0.0390	0.0837
40	Total Penta-Dioxins				0.942	10.340	29.960		0.000		0.11149		0.0520	0.195
41	Total Hexa-Dioxins				0.915	10.340	33.635		0.000		1.1717		0.0579	1.17
42	Total Hepta-Dioxins				0.898	10.340	37.640		0.000		3.5920		0.0702	3.59
43	Total Tetra-Furans				0.787	10.340	23.610		0.000		0.28478		0.0334	0.285
44	1st Func. Penta-Furans				0.910	10.340	27.090		0.000		0.14473		0.0114	0.145
45	Total Penta-Furans				0.910	10.340	29.275		0.000		0.10980		0.0385	0.329
46	Total Hexa-Furans				0.922	10.340	33.555		0.000		0.50912		0.0298	0.682
47	Total Hepta-Furans				0.871	10.340	37.835		0.000		0.56120		0.0678	1.01

Quantify Totals Report MassLynx 4.1 SCN815

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-7.qld

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Name: 200516R1_7, Date: 16-May-2020, Time: 13:49:17, ID: 2000946-05 PDI-162SC-A-05-06-200424 11.48, Description: PDI-162SC-A-05-06-200424

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.82	4.736e3	6.011e3	3.589e2	4.374e2	0.82	NO	7.962e2	0.083682	0.083682	0.0390

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.90	4.688e3	6.640e3	1.924e2	3.176e2	0.61	NO	5.100e2	0.060305	0.060305	0.0520
2	Total Penta-Dioxins	29.35	4.075e3	1.087e4	2.737e2	8.043e2	0.34	YES	0.000e0	0.00000	0.083722	0.0520
3	1,2,3,7,8-PeCDD	31.16	5.522e3	5.477e3	1.804e2	2.525e2	0.71	NO	4.329e2	0.051184	0.051184	0.0520

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.05	4.993e4	4.314e4	2.509e3	1.986e3	1.26	NC	4.495e3	0.66301	0.66301	0.0579
2	Total Hexa-Dioxins	33.86	2.274e4	1.310e4	1.183e3	9.449e2	1.25	NO	2.128e3	0.31391	0.31391	0.0579
3	1,2,3,6,7,8-HxCDD	34.64	5.836e3	5.063e3	3.508e2	3.144e2	1.12	NO	6.652e2	0.089347	0.089347	0.0537
4	1,2,3,7,8,9-HxCDD	34.91	7.895e3	5.156e3	3.851e2	3.356e2	1.15	NO	7.207e2	0.10543	0.10543	0.0597

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.39	8.414e4	8.070e4	6.062e3	5.768e3	1.05	NO	1.183e4	2.2434	2.2434	0.0702
2	1,2,3,4,6,7,8-HpCDD	38.41	5.118e4	5.176e4	3.732e3	3.379e3	1.10	NO	7.111e3	1.3485	1.3485	0.0702

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.99	3.542e3	4.442e3	2.199e2	3.200e2	0.69	NO	5.399e2	0.055997	0.055997	0.0334
2	Total Tetra-Furans	24.18	4.759e3	7.486e3	4.439e2	6.466e2	0.69	NO	1.090e3	0.11311	0.11311	0.0334
3	2,3,7,8-TCDF	25.15	7.006e3	6.891e3	5.102e2	6.050e2	0.84	NO	1.115e3	0.11567	0.11567	0.0334

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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	1st Func. Penta-Furans	27.20	1.583e4	1.124e4	9.520e2	6.443e2	1.48	NO	1.596e3	0.14473	0.14473	0.0114

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.82	1.089e4	7.051e3	6.499e2	5.420e2	1.20	YES	0.000e0	0.00000	0.096936	0.0385
2	1,2,3,7,8-PeCDF	29.83	1.299e4	1.035e4	7.654e2	4.660e2	1.64	NO	1.231e3	0.10980	0.10980	0.0404
3	Total Penta-Furans	30.09	4.189e3	5.730e3	2.697e2	2.366e2	1.14	YES	0.000e0	0.00000	0.040229	0.0385
4	2,3,4,7,8-PeCDF	30.85	1.093e4	5.816e3	7.137e2	3.713e2	1.92	YES	1.085e3	0.00000	0.082233	0.0344

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.49	6.050e3	5.026e3	2.442e2	1.606e2	1.52	YES	0.000e0	0.00000	0.045504	0.0298
2	Total Hexa-Furans	32.66	1.005e4	7.666e3	4.857e2	4.145e2	1.17	NO	9.002e2	0.11391	0.11391	0.0298
3	Total Hexa-Furans	33.21	1.268e4	1.181e4	6.653e2	5.493e2	1.21	NO	1.215e3	0.15369	0.15369	0.0298
4	1,2,3,4,7,8-HxCDF	33.65	1.424e4	1.436e4	8.089e2	7.402e2	1.09	NO	1.549e3	0.20324	0.20324	0.0293
5	1,2,3,6,7,8-HxCDF	33.78	7.584e3	5.341e3	4.094e2	2.840e2	1.44	YES	6.933e2	0.00000	0.078476	0.0281
6	2,3,4,6,7,8-HxCDF	34.38	3.413e3	2.810e3	1.686e2	1.403e2	1.20	NO	3.089e2	0.038279	0.038279	0.0287
7	1,2,3,7,8,9-HxCDF	35.25	3.228e3	5.016e3	9.107e1	2.228e2	0.41	YES	3.139e2	0.00000	0.025082	0.0398
8	Total Hexa-Furans	35.27	3.469e3	3.789e3	1.054e2	1.165e2	0.91	YES	0.000e0	0.00000	0.024101	0.0298

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	1.734e4	2.040e4	1.268e3	1.470e3	0.86	YES	2.738e3	0.00000	0.44498	0.0639
2	Total Hepta-Furans	37.59	2.157e4	1.954e4	1.328e3	1.410e3	0.94	NO	2.738e3	0.56120	0.56120	0.0678

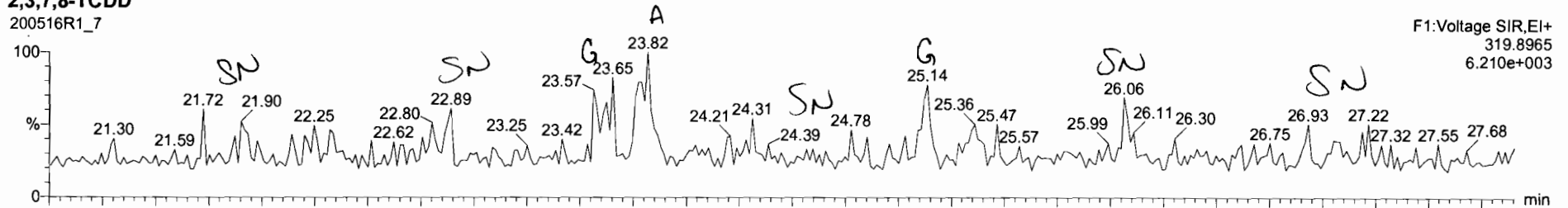
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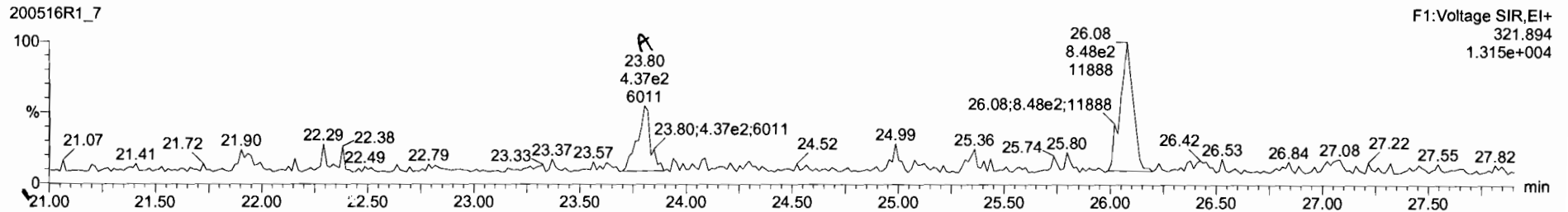
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2,3,7,8-TCDD

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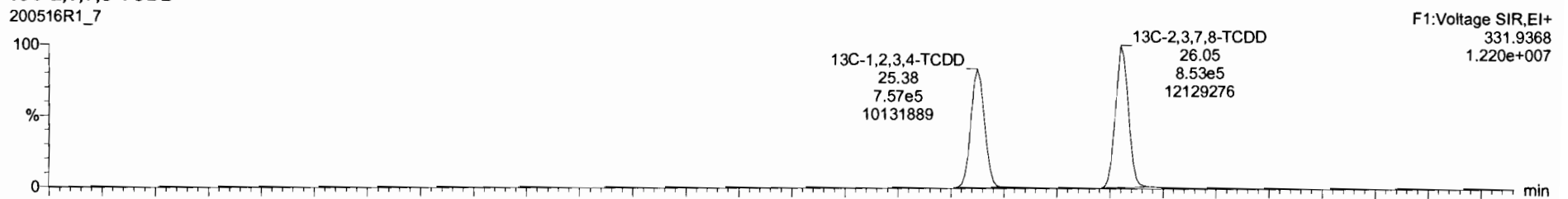


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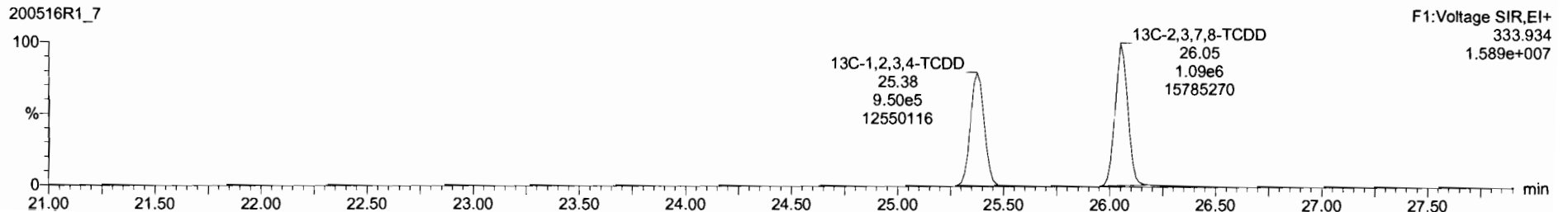


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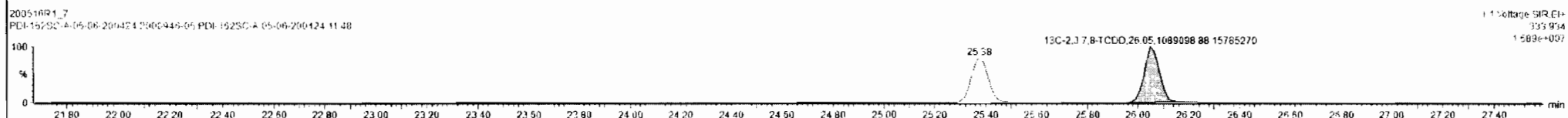
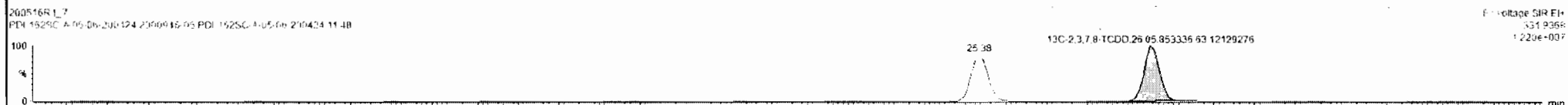
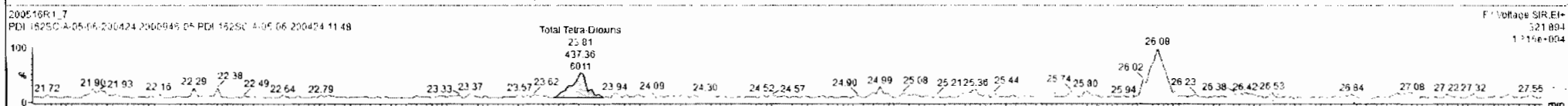
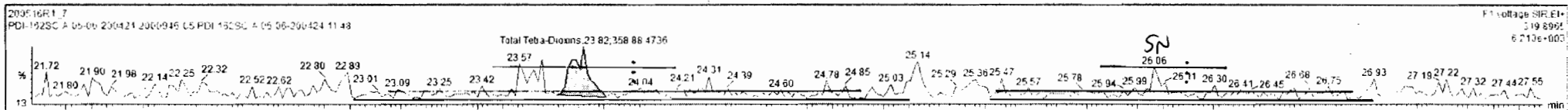


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Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
30 Total Tetra-Dioxins				0.9475	10.346			0.0837		0.0360	0.0837
40 Total Penta-Dioxins				0.9425	10.340			0.0875		0.0520	0.222

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.82	3.565e2	4.374e2	0.82	NO	0.083682	0.083682



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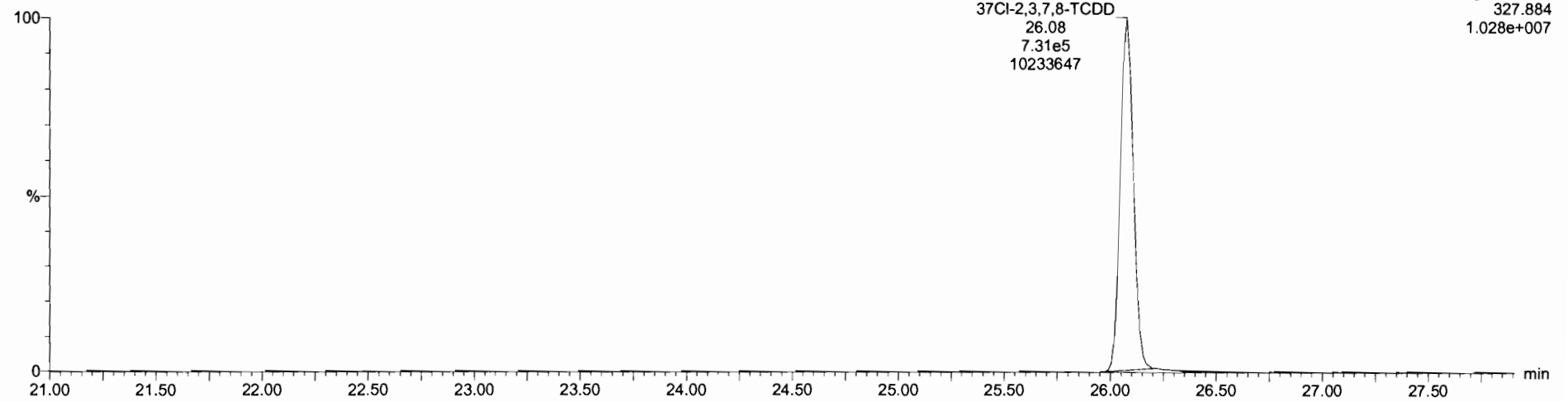
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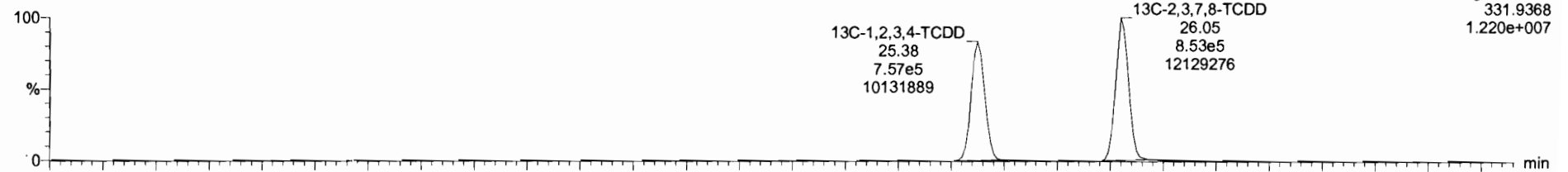
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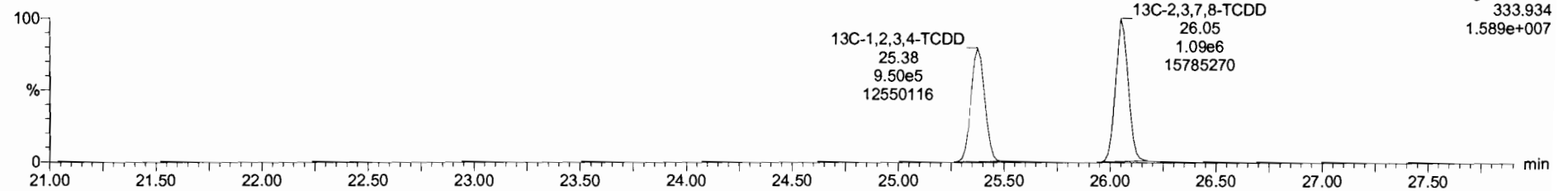


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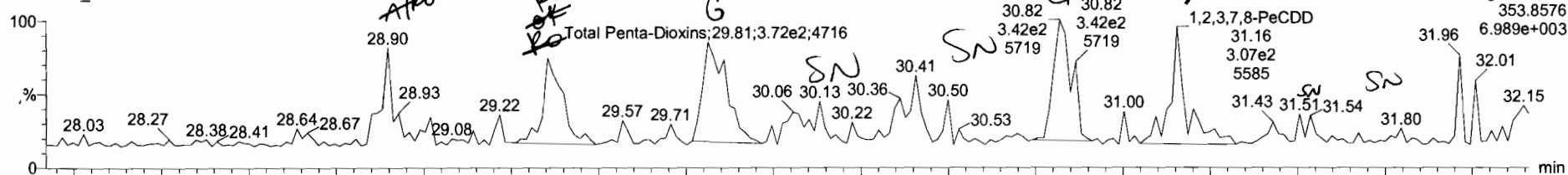
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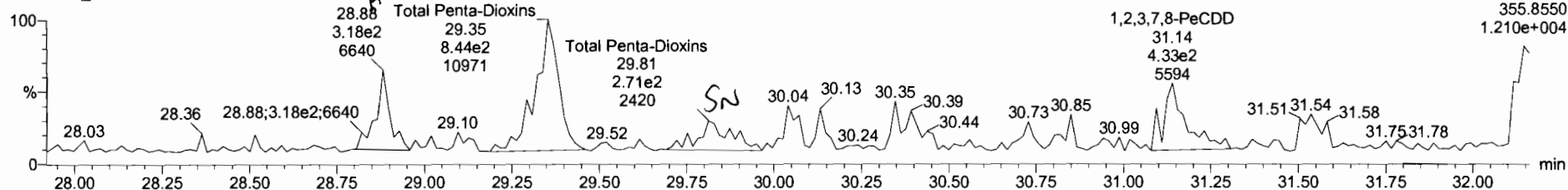
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1,2,3,7,8-PeCDD

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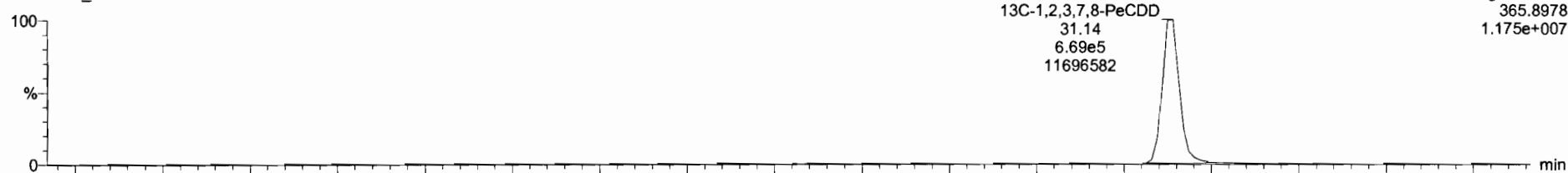


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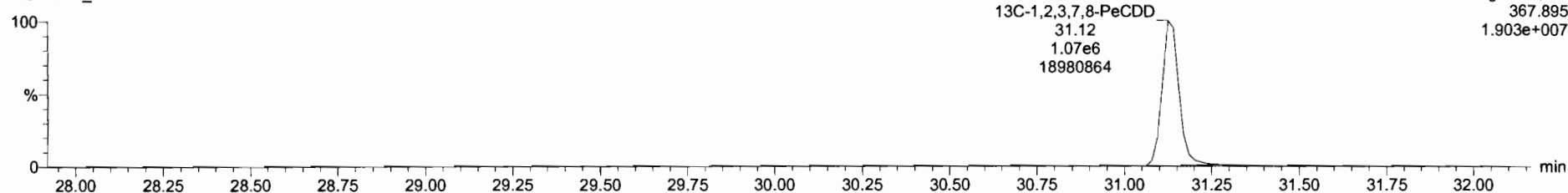


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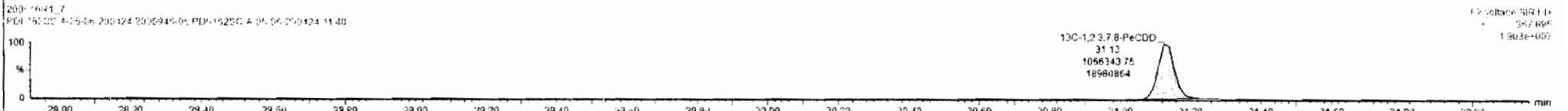
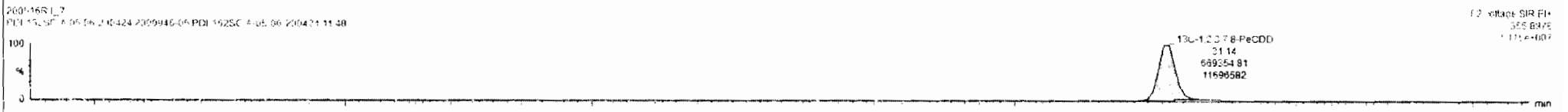
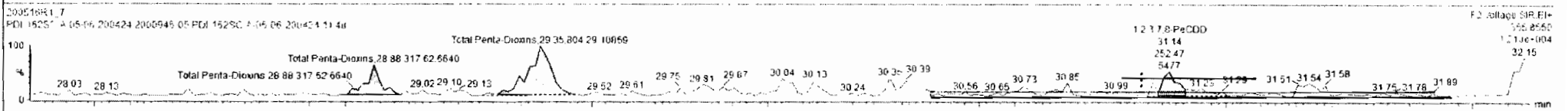
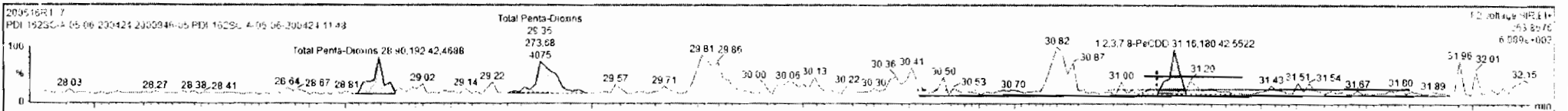


200516R1_7



Name	Resp	RA	n/y	PRF	wtVol	RT	RRT	Conc	%Rec	DL	ENPC
39 Total Tetra-Dioxins				0.9475	10.346			0.0390	0.8857		
40 Total Penta-Dioxins				0.9425	10.346			0.111	0.0520	0.198	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,7,8-PeCDD	31.16	1.804e2	2.525e2	0.71	NO	0.051194	0.051194
2 Total Penta-Dioxins	29.35	1.737e2	8.043e2	0.34	YES	0.083722	0.00000
3 Total Penta-Dioxins	28.90	1.924e2	3.175e2	0.61	NO	0.060305	0.060305



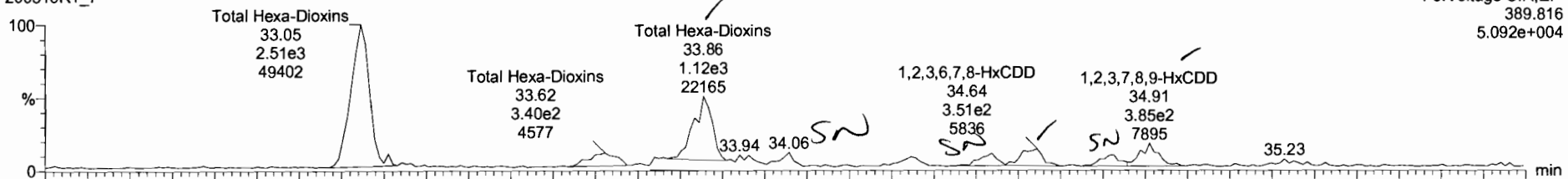
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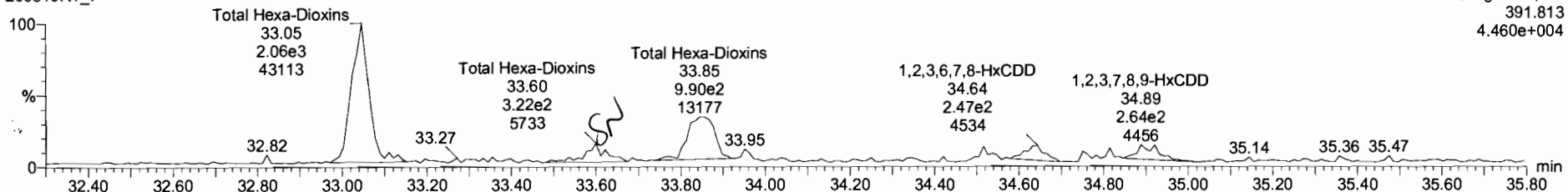
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1,2,3,4,7,8-HxCDD

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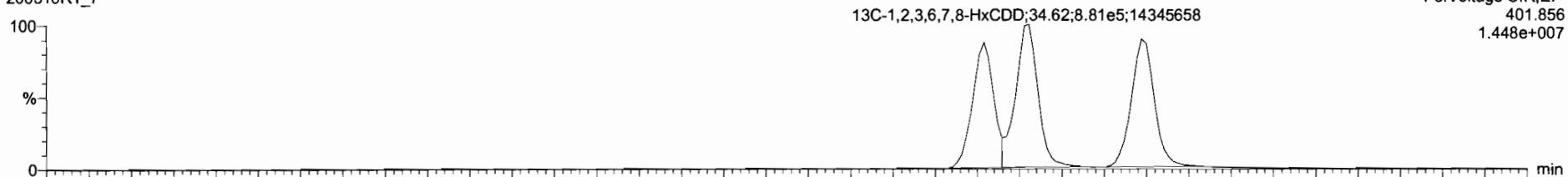


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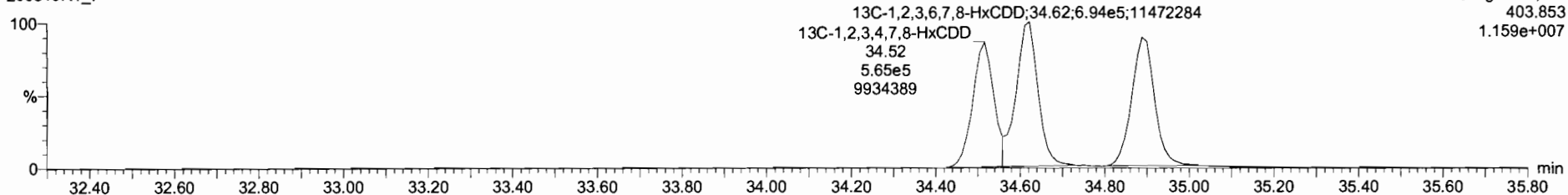


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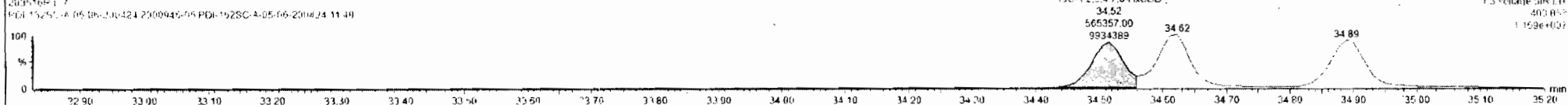
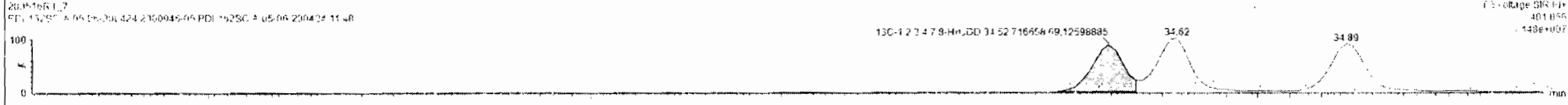
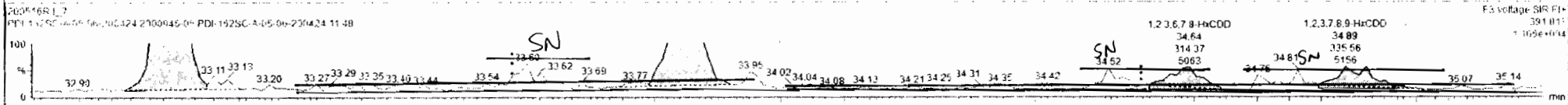
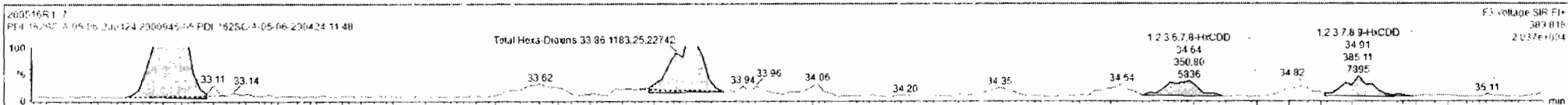


200516R1_7



Name	Resp	RA	u1	RF	u1/rol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.340			0.0837	0.0390	0.0837	
40 Total Penta-Dioxins				0.9425	10.340			0.111	0.0529	0.195	

Name	RT	u1 Resp	u2 Resp	RA	u1	EMPC	Conc.
1 1,2,3,7,8-HxCDD	34.91	3.851e2	3.356e2	1.15	NO	0.10543	0.10543
2 1,2,3,6,7,8-HxCDD	34.64	3.508e2	3.144e2	1.12	NO	0.099347	0.099347
3 Total Hexa-Dioxins	33.86	1.183e3	9.449e2	1.25	NO	0.31251	0.31251
4 Total Hexa-Dioxins	33.05	2.509e3	1.986e3	1.26	NO	0.66301	0.66301



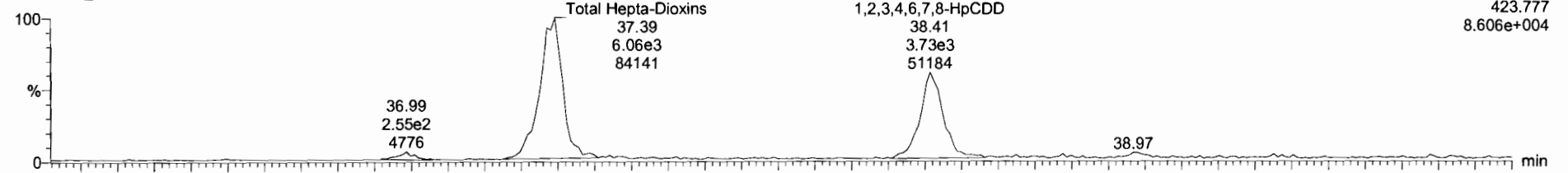
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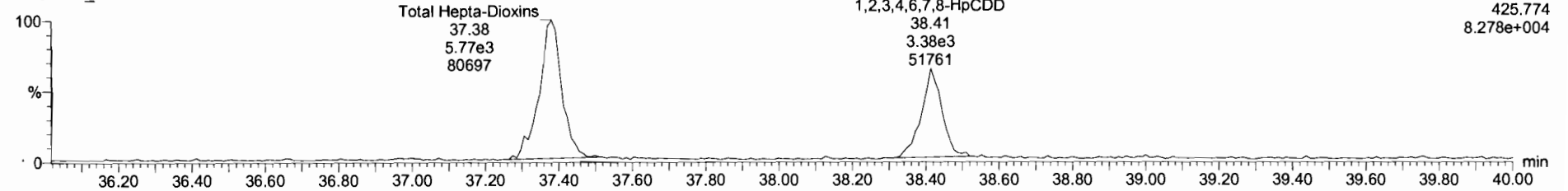
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1,2,3,4,6,7,8-HpCDD

200516R1_7

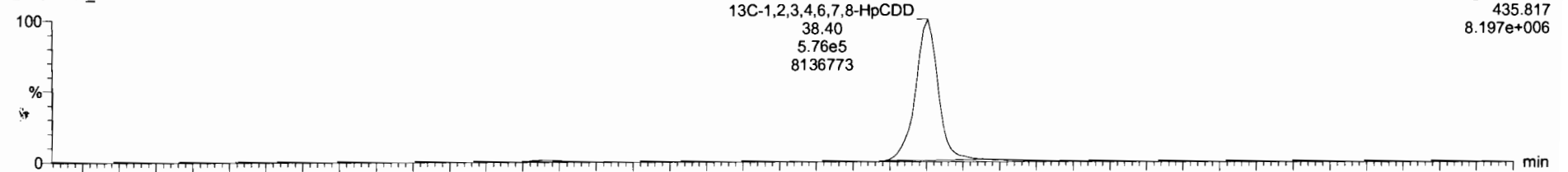


200516R1_7

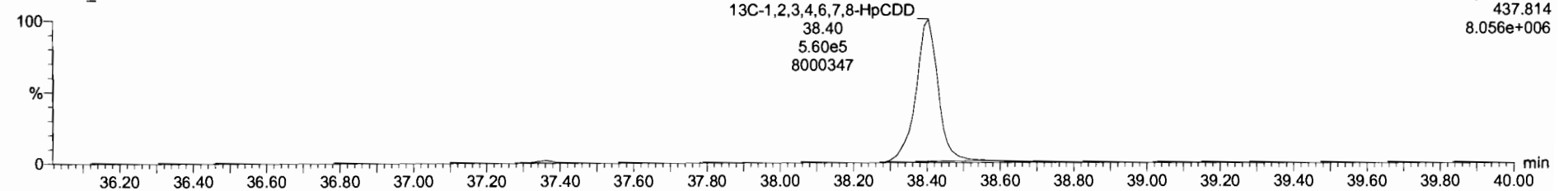


13C-1,2,3,4,6,7,8-HpCDD

200516R1_7



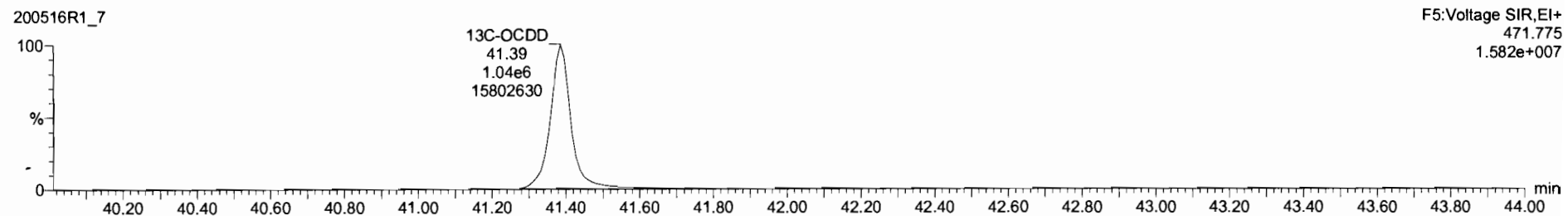
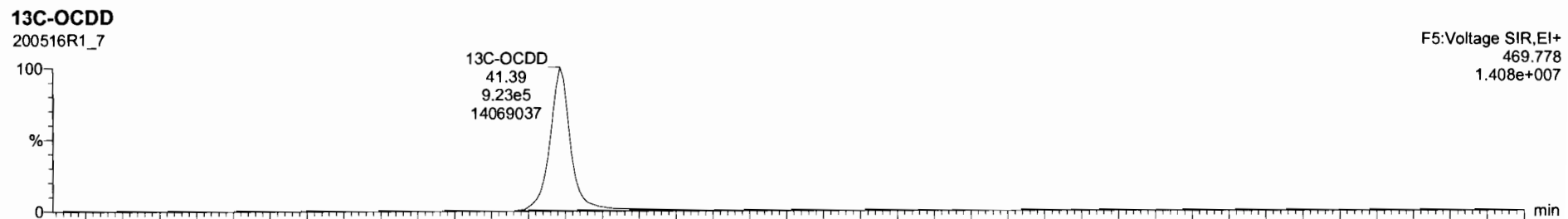
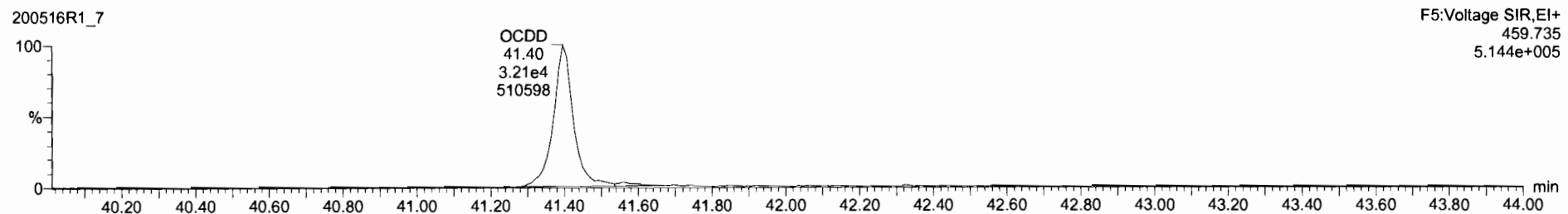
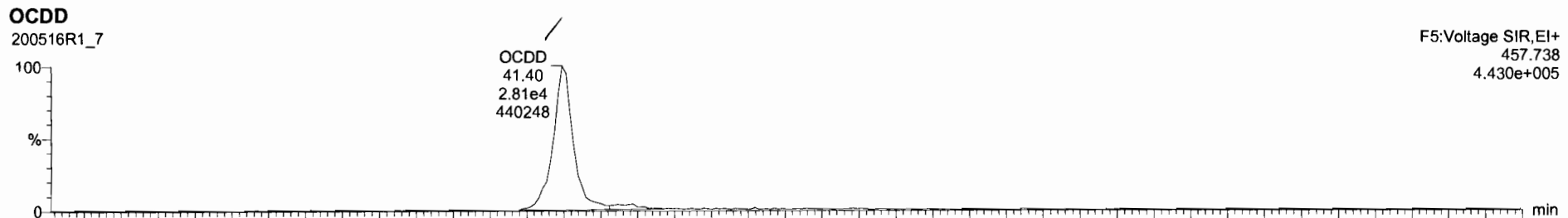
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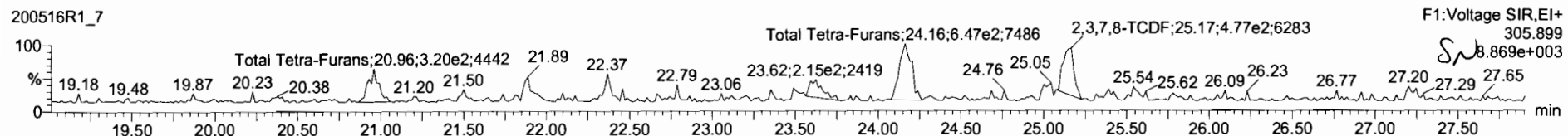
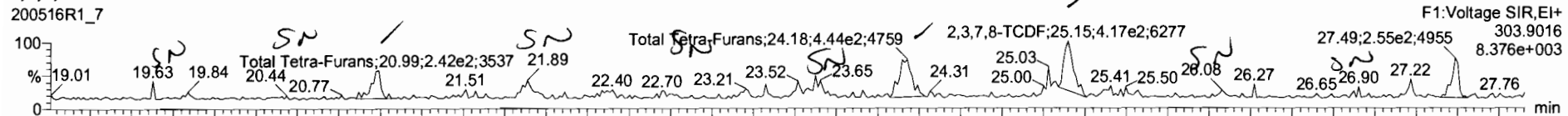


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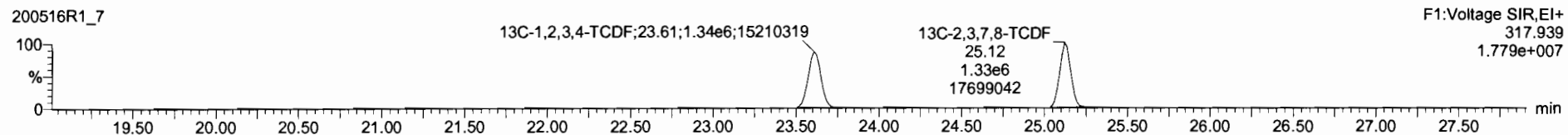
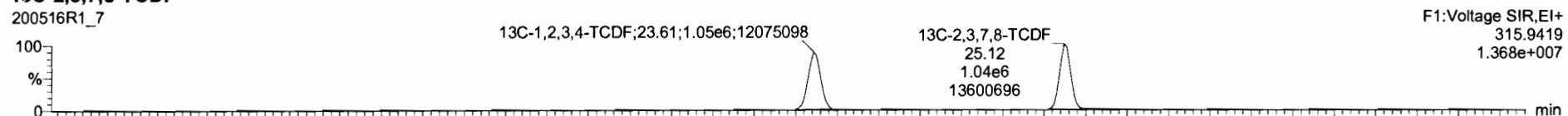
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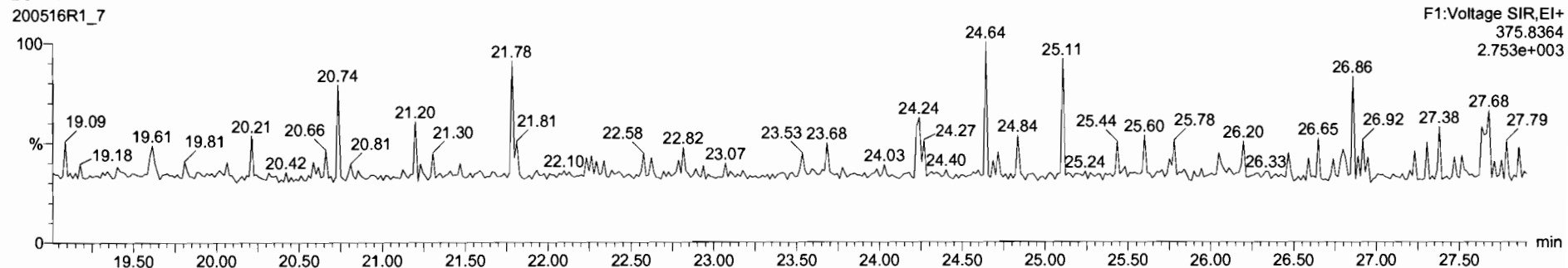
2,3,7,8-TCDF



¹³C-2,3,7,8-TCDF

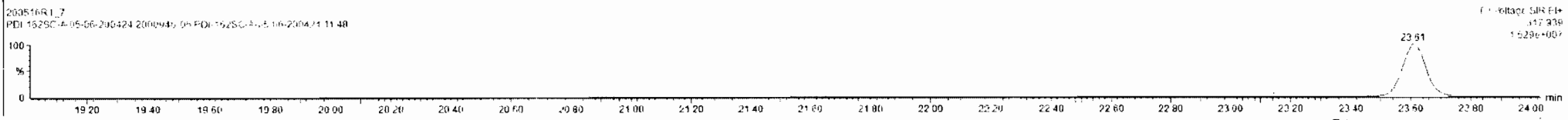
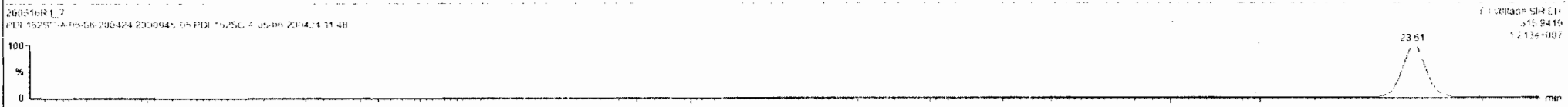
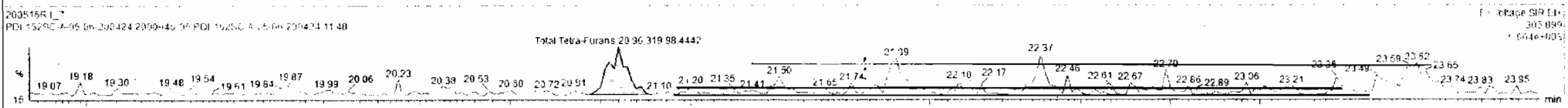
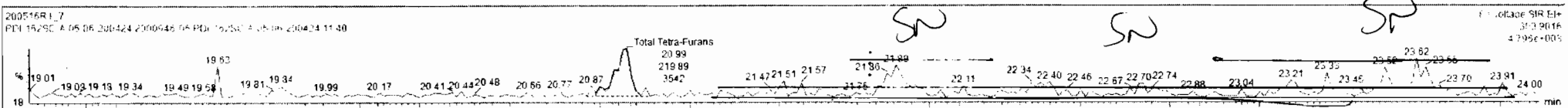


DPE1



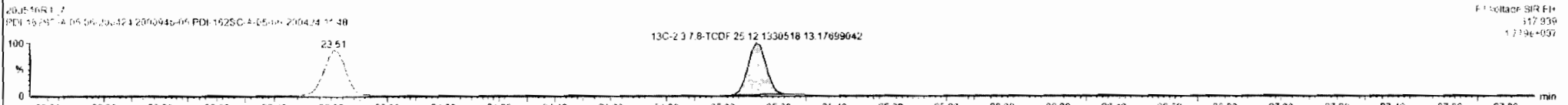
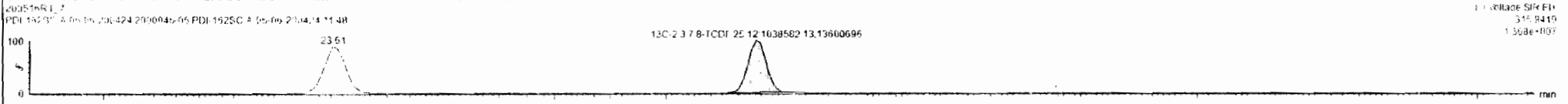
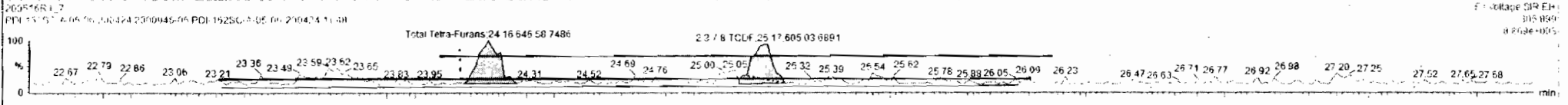
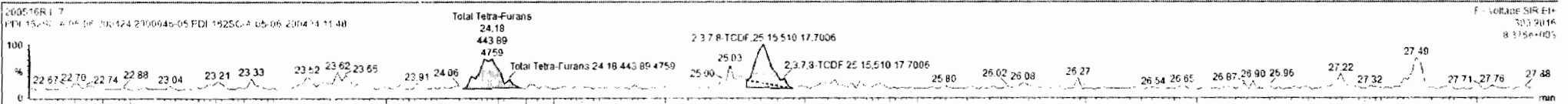
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxins				0.8975	10.340			3.59	0.0702	2.55	
43 Total Tetra-Furans				0.7871	10.340			6.262	0.0334	0.262	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra Furans	20.99	2.196e2	2.209e2	0.68	NO	0.055997	0.055997
2 2,3,7,8-TCDF	25.13	4.166e2	4.767e2	0.87	NO	0.092674	0.092674
3 Total Tetra-Furans	24.18	4.439e2	5.466e2	0.66	NO	0.11311	0.11311



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				0.6975	10.340			3.59		0.0702	3.55
43 Total Tetra-Furans				0.7871	10.340			0.285		0.0334	0.285

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.99	2.195e2	3.200e2	0.59	NO	0.055997	0.055997
2 2,3,7,8-TCDF	25.15	5.102e2	6.050e2	0.64	NO	0.11567	0.11567
3 Total Tetra-Furans	24.18	4.439e2	6.466e2	0.69	NO	0.11311	0.11311



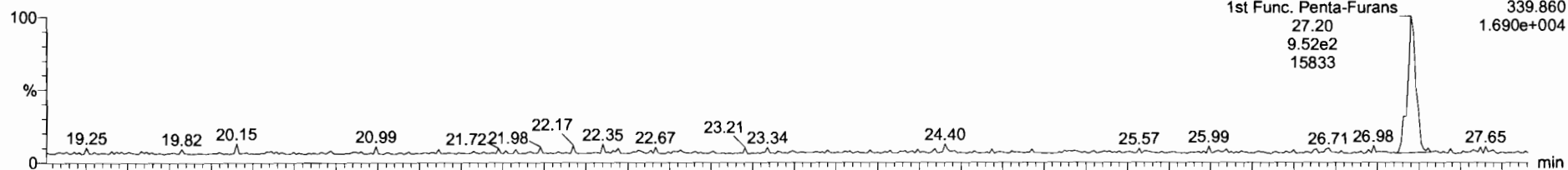
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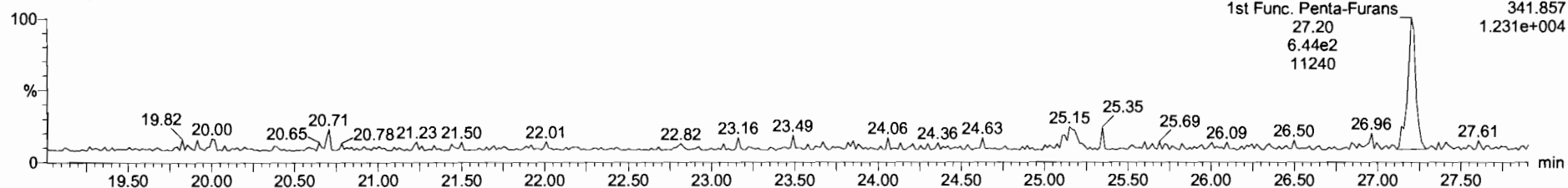
Name: 200516R1_7, Date: 16-May-2020, Time: 13:49:17, ID: 2000946-05 PDI-162SC-A-05-06-200424 11.48, Description: PDI-162SC-A-05-06-200424

1st Func. Penta-Furans

200516R1_7

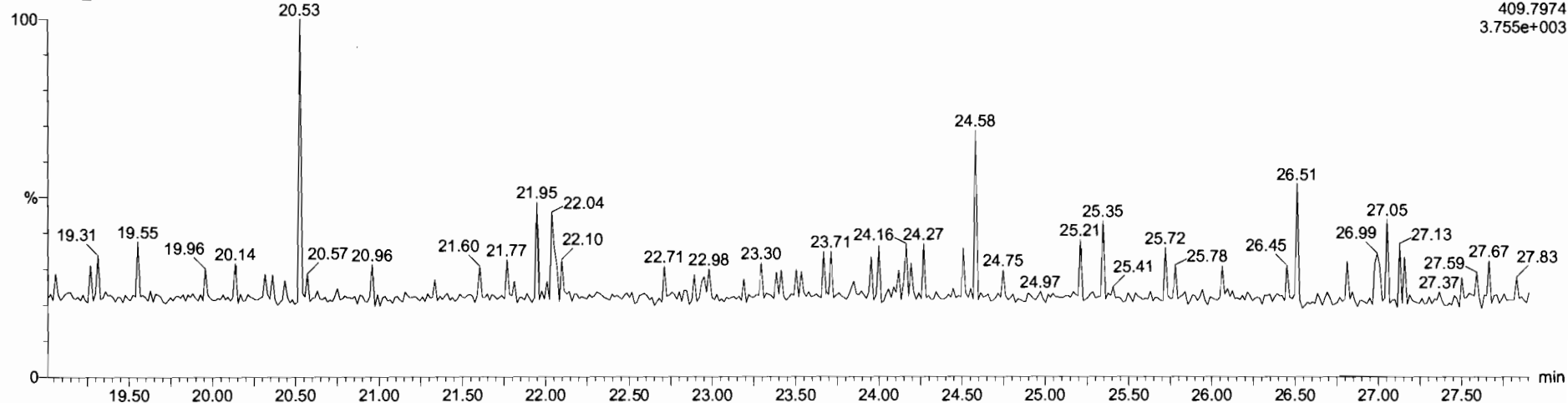


200516R1_7



DPE6

200516R1_7

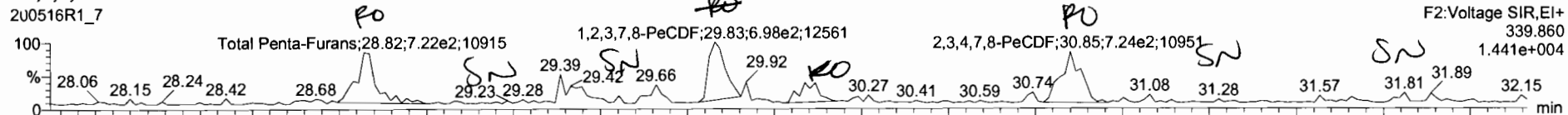


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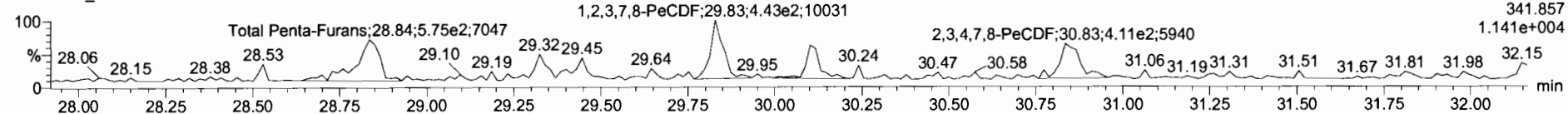
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Name: 200516R1_7, Date: 16-May-2020, Time: 13:49:17, ID: 2000946-05 PDI-162SC-A-05-06-200424 11.48, Description: PDI-162SC-A-05-06-200424

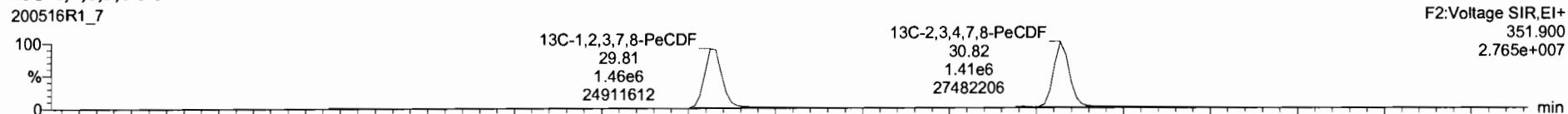
1,2,3,7,8-PeCDF



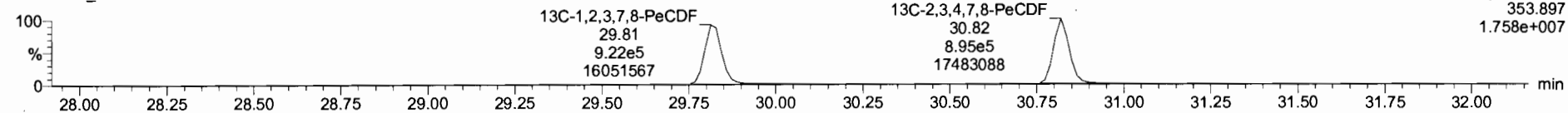
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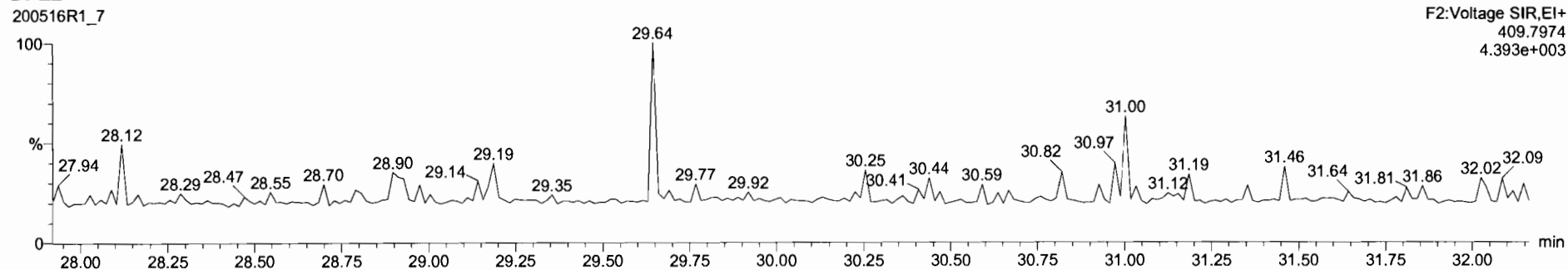
13C-1,2,3,7,8-PeCDF



200516R1_7

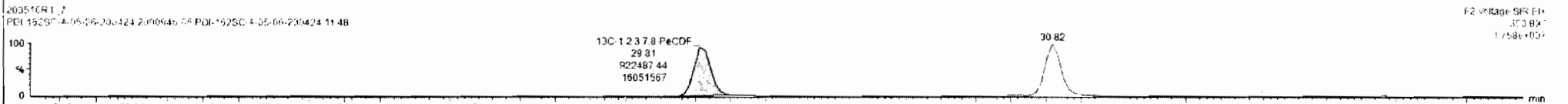
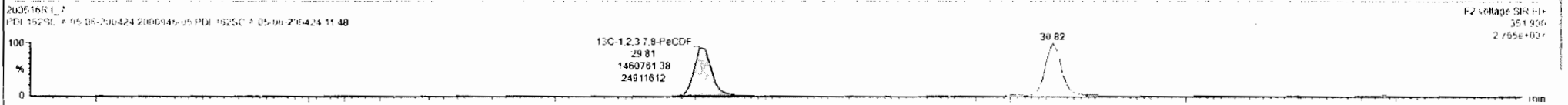
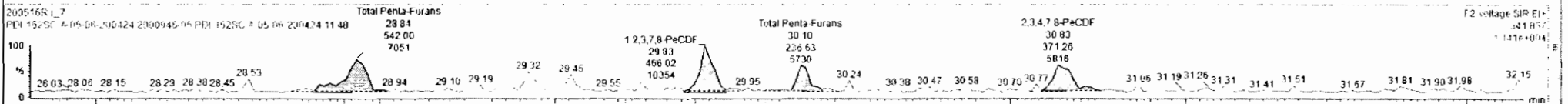
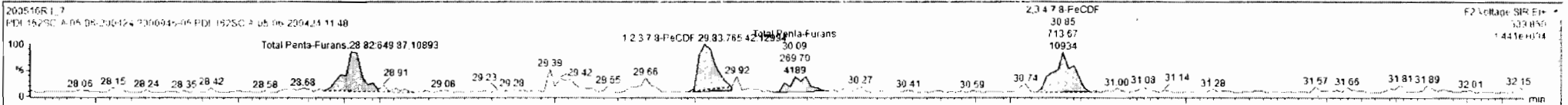


DPE2



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.340			0.110		0.0365	0.328
46 Total Hexa-Furans				0.9217	10.340			0.267		0.0398	0.535

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 2,3,4,7,8-PeCDF	30.85	7.137e2	3.713e2	1.92	YES	0.082735	0.00000
2 Total Penta-Furans	30.09	2.897e2	2.366e2	1.14	YES	0.040229	0.00000
3 1,2,3,7,8-PeCDF	29.82	7.654e2	4.660e2	1.64	NO	0.10960	0.10980
4 Total Penta-Furans	28.82	6.496e2	5.420e2	1.20	YES	0.096936	0.00000

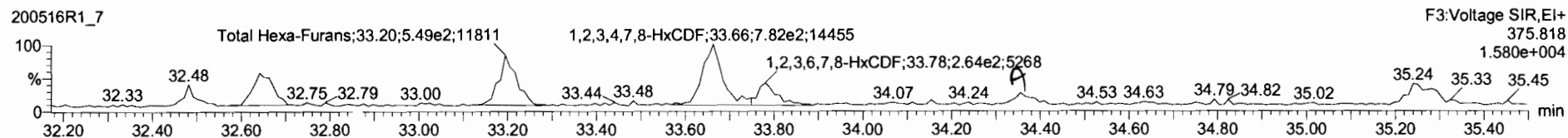
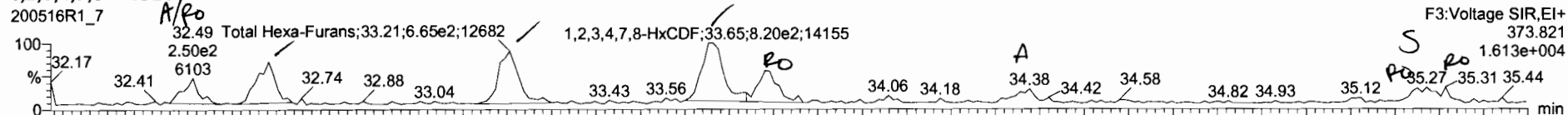


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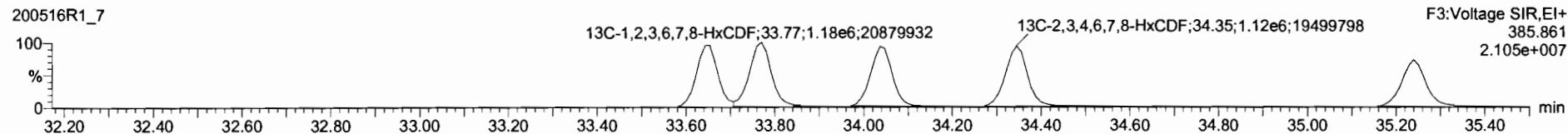
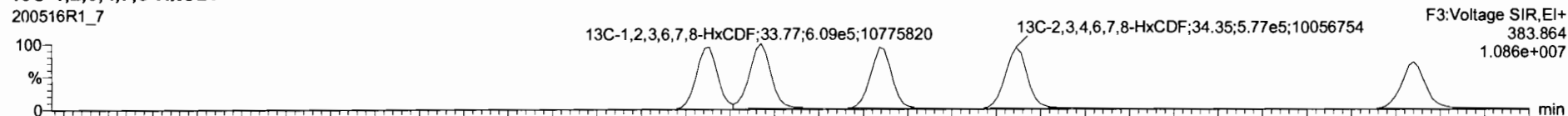
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Name: 200516R1_7, Date: 16-May-2020, Time: 13:49:17, ID: 2000946-05 PDI-162SC-A-05-06-200424 11.48, Description: PDI-162SC-A-05-06-200424

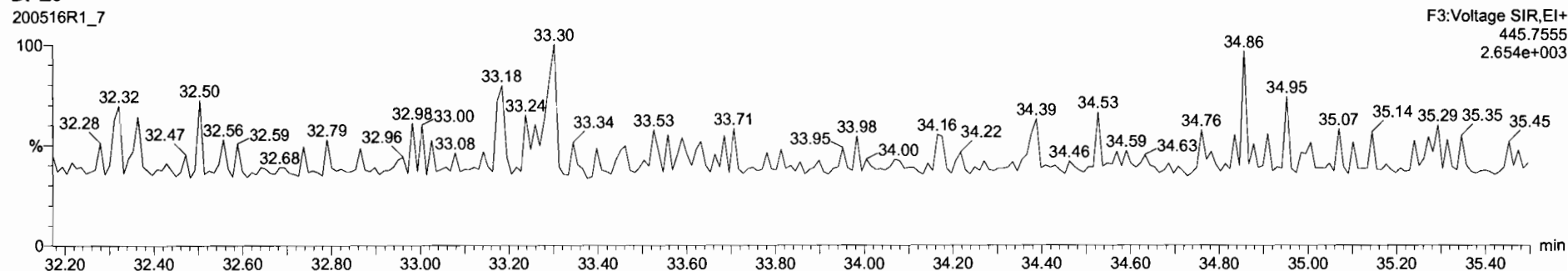
1,2,3,4,7,8-HxCDF



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

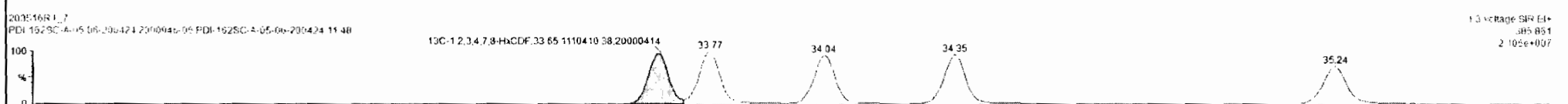
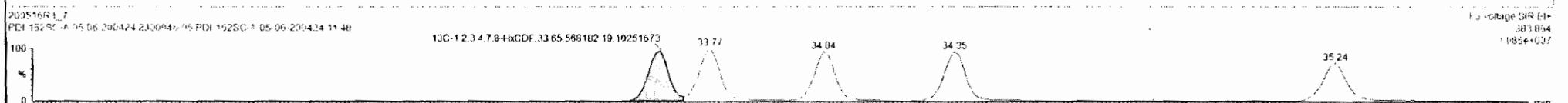
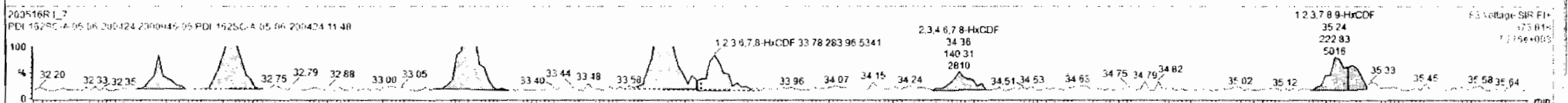
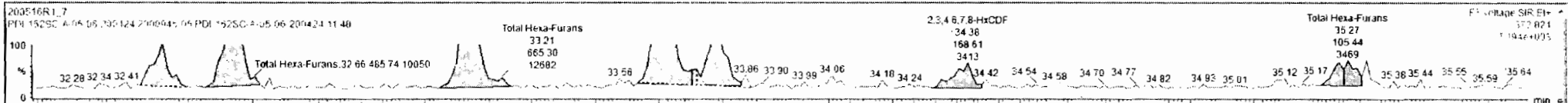


DPE3



Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.340			0.110	0.0385	0.329	
46 Total Hexa-Furans				0.8217	10.340			0.599	0.0288	0.662	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.49	2.442e2	1.600e2	1.52	YES	0.045504	0.00000
2 Total Hexa-Furans	32.66	4.857e2	4.145e2	1.17	NO	0.11391	0.11391
3 Total Hexa-Furans	32.21	6.553e2	5.493e2	1.21	NO	0.15369	0.15369
4 1,2,3,4,7,8-HxCDF	33.65	6.089e2	7.402e2	1.09	NO	0.20324	0.20324
5 1,2,3,6,7,8-HxCDF	33.76	4.094e2	2.849e2	1.44	YES	0.078476	0.00000
6 2,3,4,6,7,8-HxCDF	34.38	1.586e2	1.403e2	1.20	NO	0.038275	0.038279
7 1,2,3,7,8-HxCDF	35.25	9.107e1	2.229e2	0.41	YES	0.025082	0.00000
8 Total Hexa-Furans	35.27	1.054e2	1.165e2	0.91	YES	0.024101	0.00000

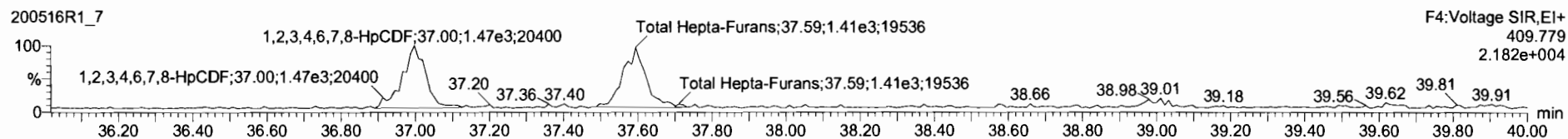
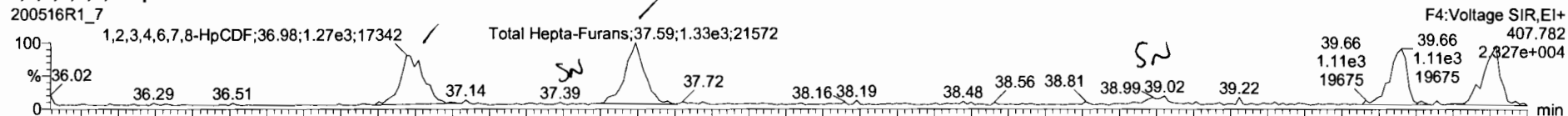


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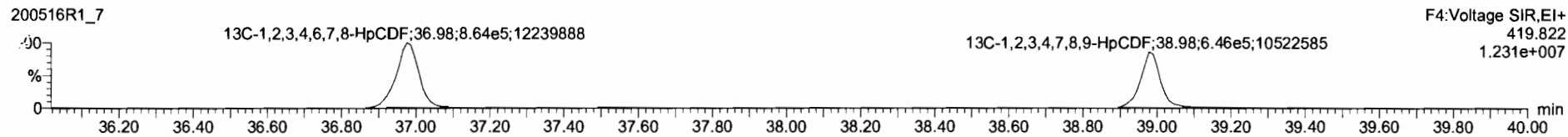
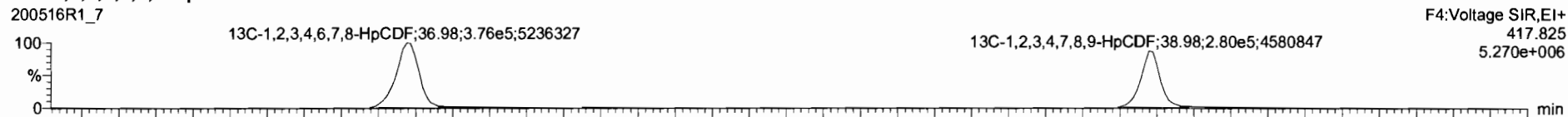
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Name: 200516R1_7, Date: 16-May-2020, Time: 13:49:17, ID: 2000946-05 PDI-162SC-A-05-06-200424 11.48, Description: PDI-162SC-A-05-06-200424

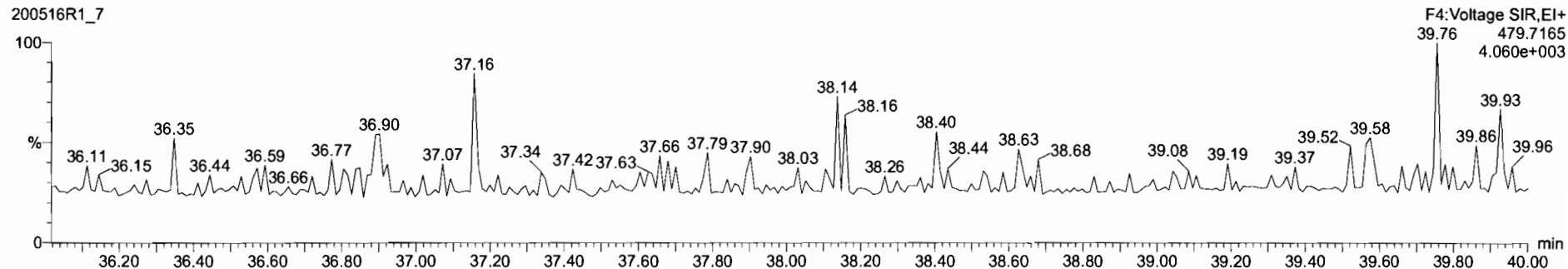
1,2,3,4,6,7,8-HpCDF



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



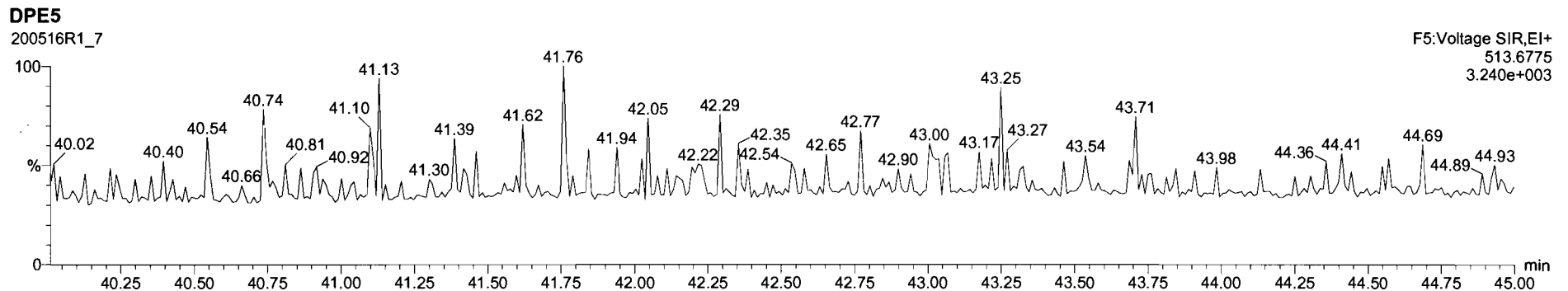
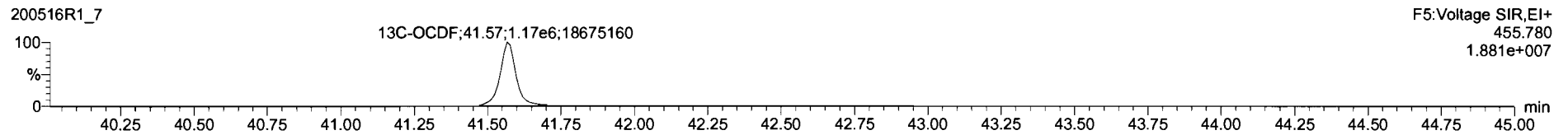
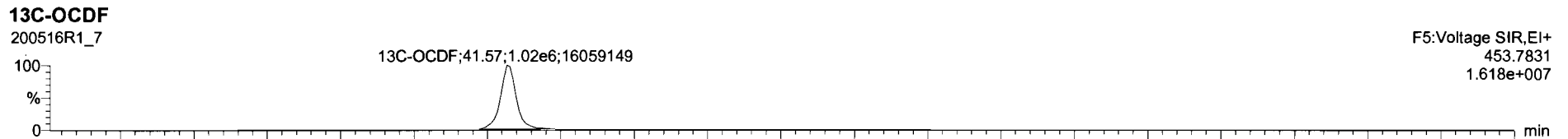
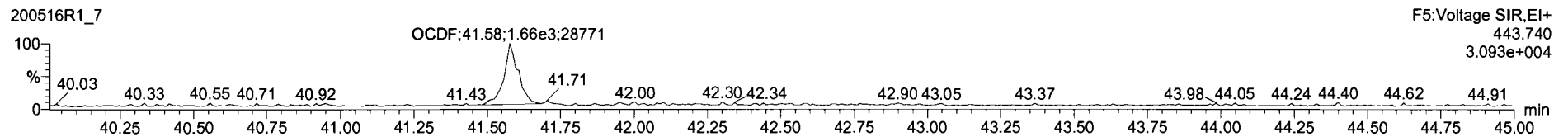
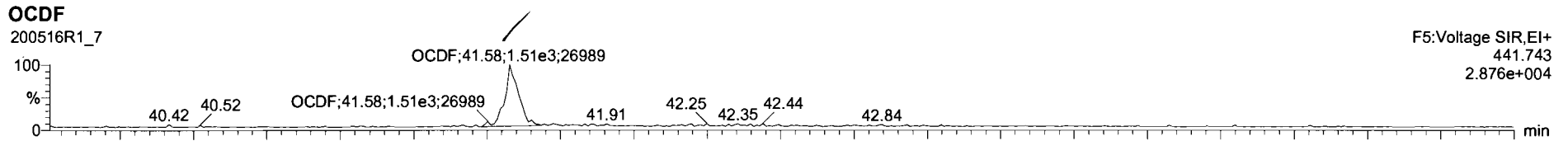
DPE4



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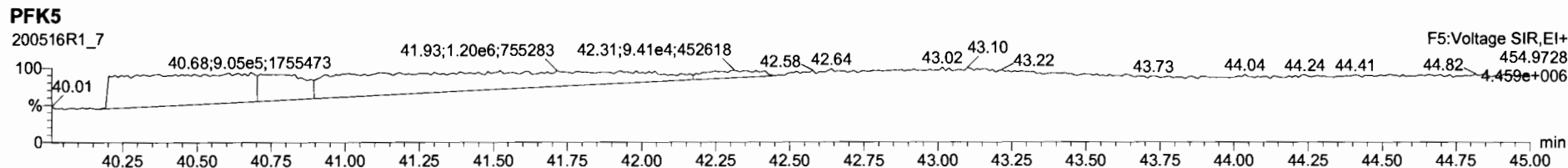
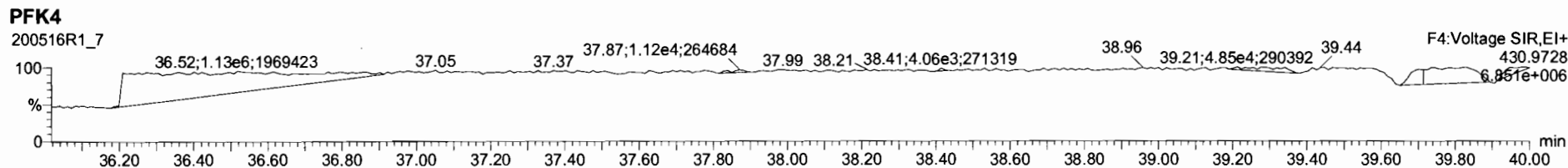
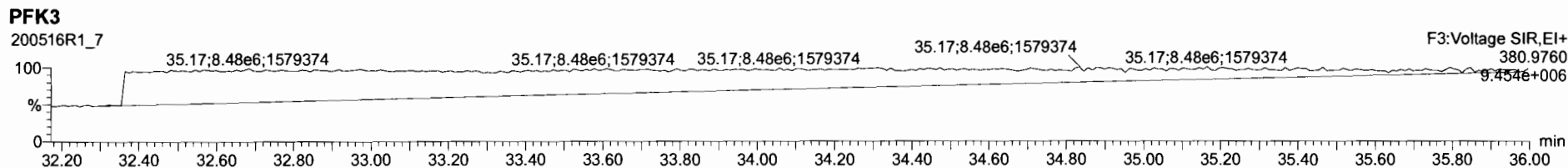
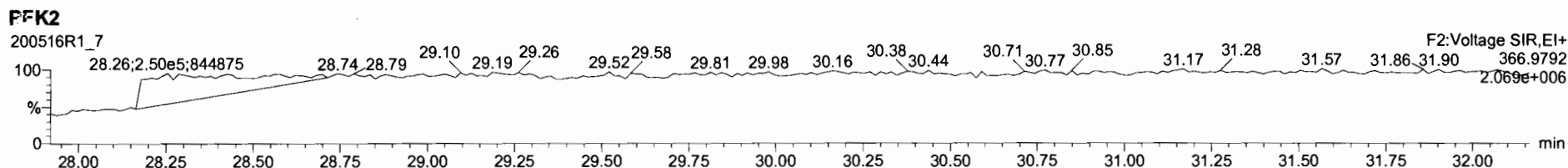
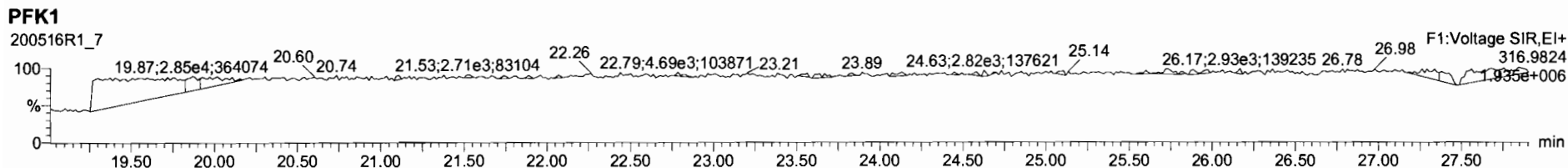
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Name: 200516R1_7, Date: 16-May-2020, Time: 13:49:17, ID: 2000946-05 PDI-162SC-A-05-06-200424 11.48, Description: PDI-162SC-A-05-06-200424



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Printed: Monday, May 18, 2020 12:59:24 Pacific Daylight Time

GRB 05/18/2020

C705/22/2020

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Name: 200516R1_8, Date: 16-May-2020, Time: 14:35:29, ID: 2000946-06 PDI-162SC-A-06-07-200424 11.93, Description: PDI-162SC-A-06-07-200424

#	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	10.874	26.096		1.001				0.0506	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.874	31.177		1.001				0.0426	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.874	34.537		1.000				0.0444	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.874	34.633		1.000				0.0457	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.874	34.920		1.000				0.0479	
6	6 1,2,3,4,6,7,8-HpCDD	3.30e3	0.96	NO	0.898	10.874	38.426	38.42	1.000	1.000	0.65345		0.0600	0.653
7	7 OCDD	2.79e4	0.86	NO	0.933	10.874	41.386	41.41	1.000	1.001	6.5522		0.0797	6.55
8	8 2,3,7,8-TCDF			NO	0.787	10.874	25.147		1.001				0.0400	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.874	29.864		1.001				0.0345	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.874	30.866		1.001				0.0329	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.874	33.664		1.000				0.0246	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.874	33.802		1.000				0.0234	
13	13 2,3,4,6,7,8-HxCDF			NC	0.922	10.874	34.401		1.001				0.0230	
14	14 1,2,3,7,8,9-HxCDF	1.99e2	1.64	YES	0.864	10.874	35.262	35.26	1.000	1.000	0.03357		0.0162	0.0285
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.874	37.024		1.001				0.0535	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.874	38.989		1.000				0.0538	
17	17 OCDF	6.15e2	0.76	NO	0.802	10.874	41.577	41.60	1.000	1.001	0.14204		0.0518	0.142
18	18 13C-2,3,7,8-TCDD	1.35e6	0.78	NO	1.16	10.874	26.046	26.07	1.026	1.027	136.35	74.1	0.187	
19	19 13C-1,2,3,7,8-PeCDD	1.40e6	0.63	NO	0.847	10.874	31.141	31.16	1.227	1.228	194.01	105	0.135	
20	20 13C-1,2,3,4,7,8-HxCDD	1.12e6	1.28	NO	0.750	10.874	34.538	34.53	1.014	1.014	177.75	96.6	0.222	
21	21 13C-1,2,3,6,7,8-HxCDD	1.39e6	1.28	NO	0.963	10.874	34.651	34.63	1.017	1.017	171.82	93.4	0.173	
22	22 13C-1,2,3,7,8,9-HxCDD	1.31e6	1.25	NO	0.838	10.874	34.920	34.91	1.025	1.025	186.23	101	0.198	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.04e6	1.06	NO	0.641	10.874	38.414	38.41	1.128	1.128	192.43	105	0.215	
24	24 13C-OCDD	1.68e6	0.89	NO	0.586	10.874	41.411	41.39	1.216	1.215	341.12	92.7	0.340	
25	25 13C-2,3,7,8-TCDF	1.50e6	0.78	NO	1.03	10.874	25.104	25.12	0.989	0.990	117.99	64.2	0.240	
26	26 13C-1,2,3,7,8-PeCDF	1.89e6	1.59	NO	0.845	10.874	29.829	29.84	1.176	1.176	182.11	99.0	0.208	
27	27 13C-2,3,4,7,8-PeCDF	1.77e6	1.60	NO	0.814	10.874	30.822	30.83	1.215	1.215	177.24	96.4	0.216	
28	28 13C-1,2,3,4,7,8-HxCDF	1.44e6	0.51	NO	1.00	10.874	33.677	33.66	0.989	0.988	171.09	93.0	0.291	
29	29 13C-1,2,3,6,7,8-HxCDF	1.57e6	0.51	NO	1.14	10.874	33.799	33.79	0.992	0.992	164.59	89.5	0.257	
30	30 13C-2,3,4,6,7,8-HxCDF	1.51e6	0.51	NO	1.02	10.874	34.368	34.37	1.009	1.009	176.07	95.7	0.286	
31	31 13C-1,2,3,7,8,9-HxCDF	1.26e6	0.51	NO	0.845	10.874	35.260	35.26	1.035	1.035	178.49	97.0	0.346	

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-8.qld

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Printed: Monday, May 18, 2020 12:59:24 Pacific Daylight Time

Name: 200516R1_8, Date: 16-May-2020, Time: 14:35:29, ID: 2000946-06 PDI-162SC-A-06-07-200424 11.93, Description: PDI-162SC-A-06-07-200424

#	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	1.16e6	0.44	NO	0.771	10.874	36.994	36.99	1.086	1.086	178.66	97.1	0.251	
33	13C-1,2,3,4,7,8,9-HpCDF	8.24e5	0.44	NO	0.482	10.874	39.007	38.99	1.145	1.145	203.68	111	0.401	
34	13C-OCDF	1.98e6	0.88	NO	0.669	10.874	41.581	41.58	1.221	1.221	353.97	96.2	0.255	
35	37Cl-2,3,7,8-TCDD	5.27e5			1.10	10.874	26.076	26.08	1.028	1.028	56.294	76.5	0.0288	
36	13C-1,2,3,4-TCDD	1.57e6	0.80	NO	1.00	10.874	25.350	25.38	1.000	1.000	183.93	100	0.217	
37	13C-1,2,3,4-TCDF	2.26e6	0.78	NO	1.00	10.874	23.560	23.61	1.000	1.000	183.93	100	0.248	
38	13C-1,2,3,4,6,9-HxCDF	1.54e6	0.51	NO	1.00	10.874	34.000	34.06	1.000	1.000	183.93	100	0.293	
39	Total Tetra-Dioxins				0.947	10.874	24.620		0.000		0.094796		0.0506	0.0948
40	Total Penta-Dioxins				0.942	10.874	29.960		0.000				0.0155	
41	Total Hexa-Dioxins				0.915	10.874	33.635		0.000		0.66402		0.0482	0.664
42	Total Hepta-Dioxins				0.898	10.874	37.640		0.000		1.7944		0.0600	1.79
43	Total Tetra-Furans				0.787	10.874	23.610		0.000				0.0188	
44	1st Func. Penta-Furans				0.910	10.874	27.090		0.000				0.00577	
45	Total Penta-Furans				0.910	10.874	29.275		0.000				0.0183	
46	Total Hexa-Furans				0.922	10.874	33.555		0.000		0.00000		0.0127	0.0465
47	Total Hepta-Furans				0.871	10.874	37.835		0.000				0.0269	

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-8.qld

Last Altered: Monday, May 18, 2020 12:57:04 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: 200516R1_8, Date: 16-May-2020, Time: 14:35:29, ID: 2000946-06 PDI-162SC-A-06-07-200424 11.93, Description: PDI-162SC-A-06-07-200424

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.81	3.493e3	4.003e3	2.960e2	3.625e2	0.82	NO	6.585e2	0.094796	0.094796	0.0506

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	33.07	3.414e4	2.997e4	1.600e3	1.321e3	1.21	NO	2.921e3	0.46219	0.46219	0.0482
2	Total Hexa-Dioxins	33.86	1.086e4	1.136e4	7.271e2	5.484e2	1.33	NO	1.276e3	0.20184	0.20184	0.0482

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.39	5.099e4	4.231e4	2.973e3	2.792e3	1.06	NO	5.765e3	1.1410	1.1410	0.0600
2	1,2,3,4,6,7,8-HpCDD	38.42	2.545e4	2.984e4	1.619e3	1.683e3	0.96	NO	3.302e3	0.65345	0.65345	0.0600

Tetra-Furans

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

Penta-Furans function 1

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

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-8.qld

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Name: 200516R1_8, Date: 16-May-2020, Time: 14:35:29, ID: 2000946-06 PDI-162SC-A-06-07-200424 11.93, Description: PDI-162SC-A-06-07-200424

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	35.26	3.129e3	2.058e3	1.239e2	7.549e1	1.64	YES	1.993e2	0.00000	0.028466	0.0162
2	Total Hexa-Furans	35.30	3.771e3	2.741e3	7.221e1	9.073e1	0.80	YES	0.000e0	0.00000	0.018001	0.0127

Hepta-Furans

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

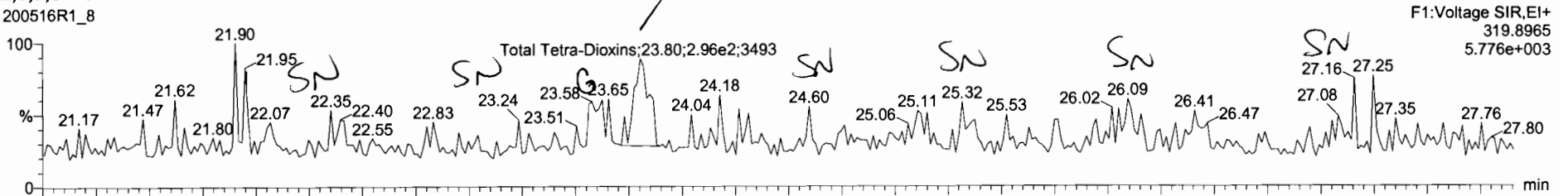
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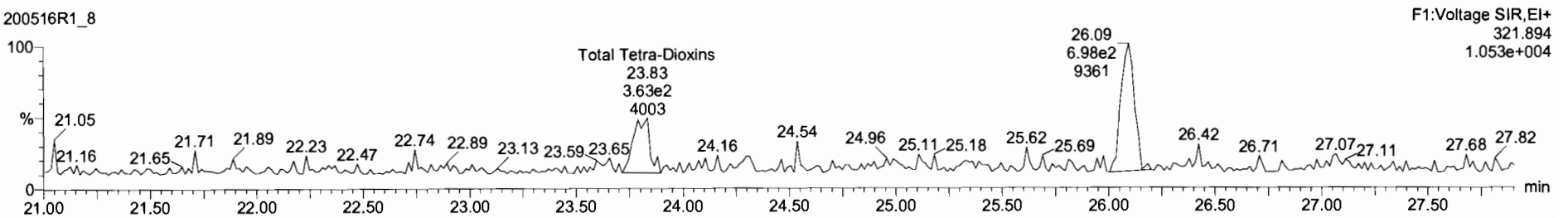
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2,3,7,8-TCDD

200516R1_8

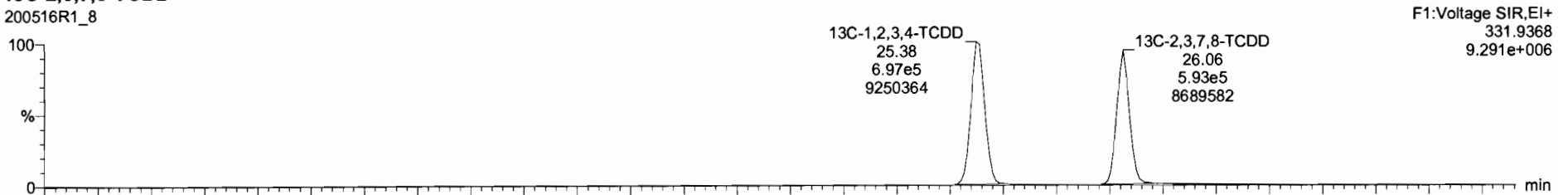


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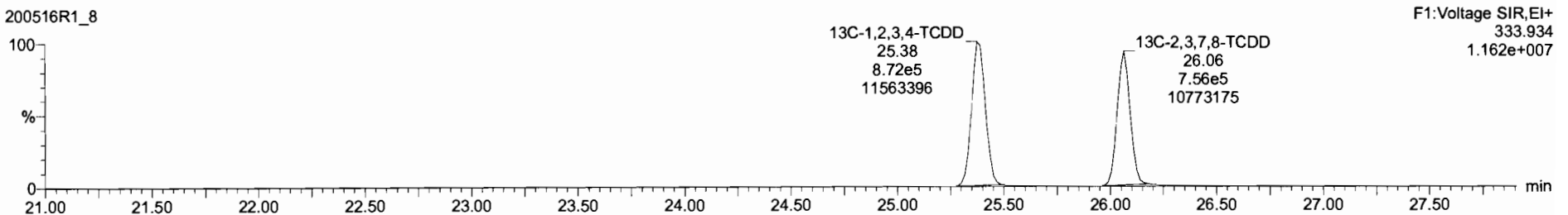


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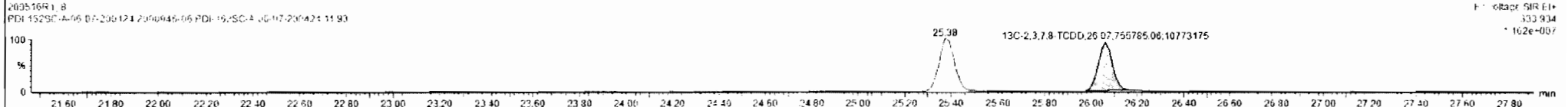
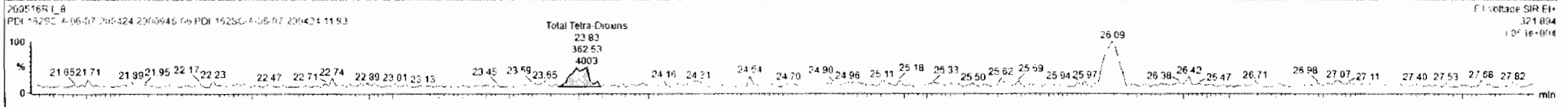
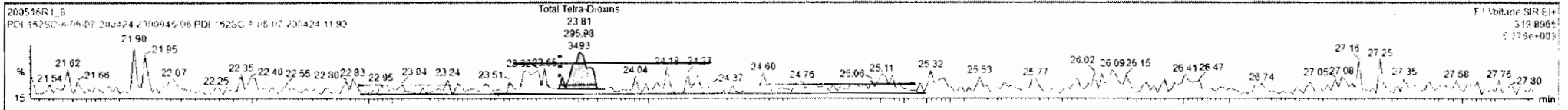


200516R1_8



Name	Resp	RA	n/y	RRF	mVol	RT	RRT	Conc	%Rec	DL	EMFC
39 Total Tetra-Dioxins				0.8475	10.874			0.0948		0.0506	0.0948
40 Total Penta-Dioxins				0.9425	10.874					0.0155	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMFC	Conc.
1 Total Tetra-Dioxins	23.81	2.950e2	3.625e2	0.82	NO	0.054796	0.094796



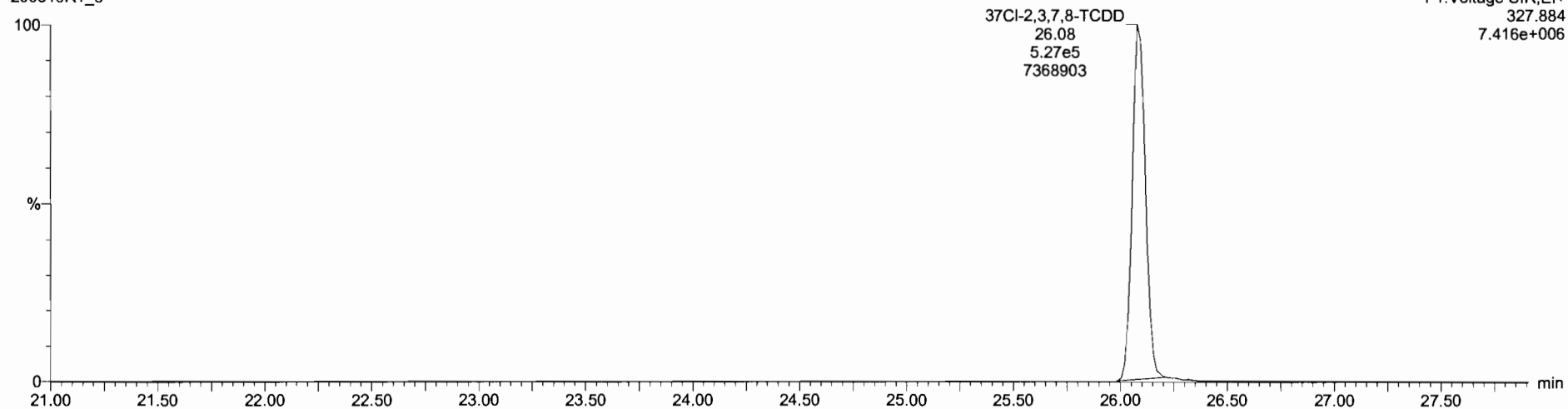
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Name: 200516R1_8, Date: 16-May-2020, Time: 14:35:29, ID: 2000946-06 PDI-162SC-A-06-07-200424 11.93, Description: PDI-162SC-A-06-07-200424

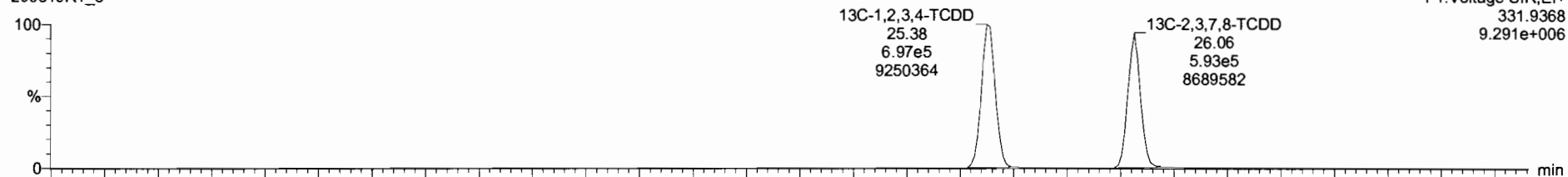
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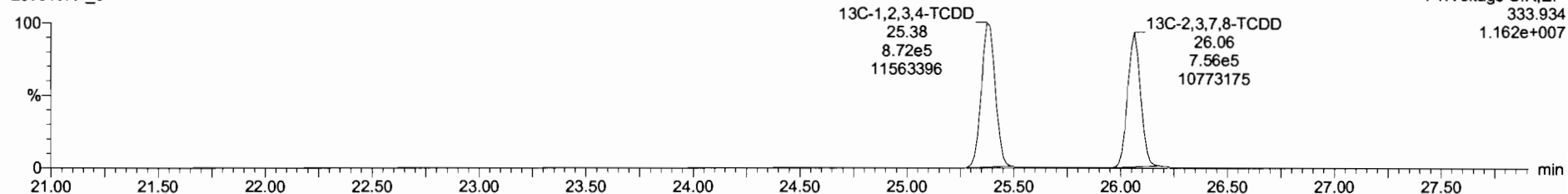


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200516R1_8



200516R1_8



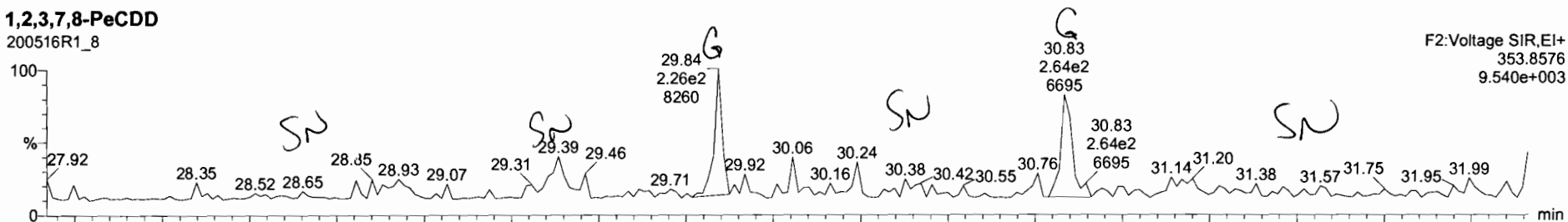
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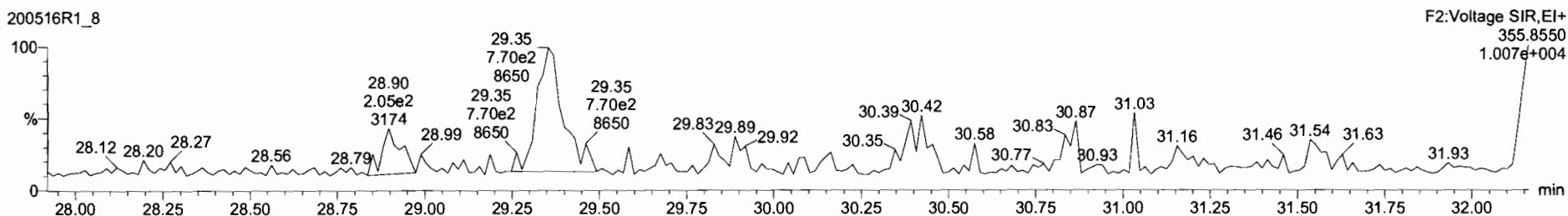
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1,2,3,7,8-PeCDD

200516R1_8

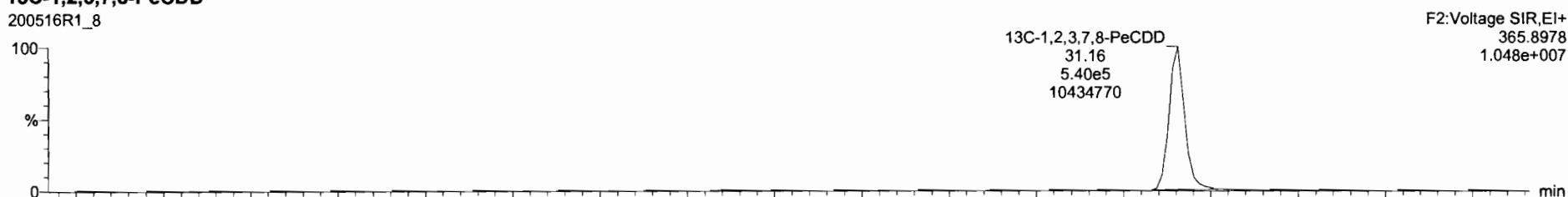


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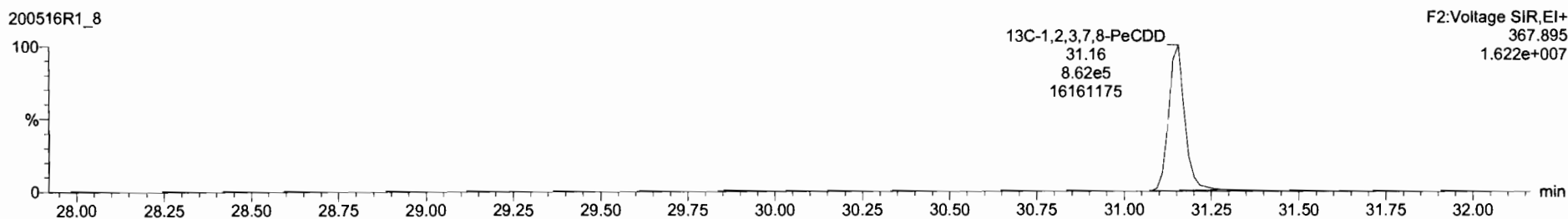


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200516R1_8



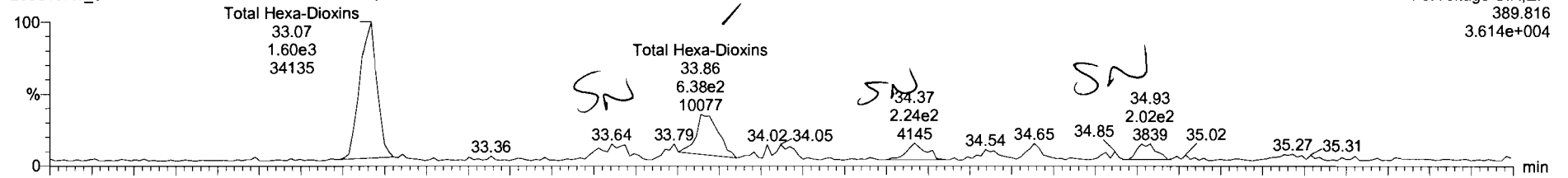
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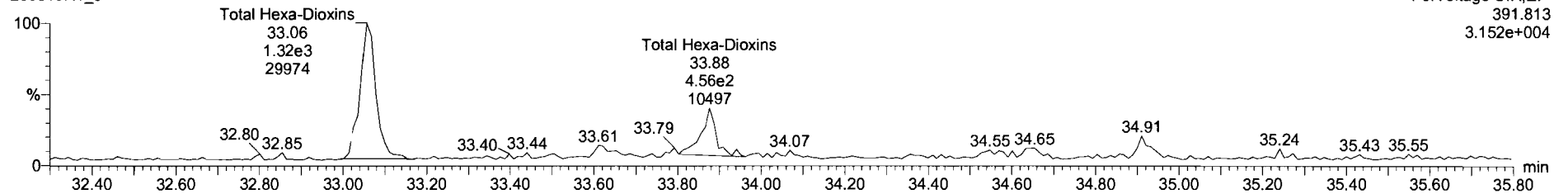
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1,2,3,4,7,8-HxCDD

200516R1_8

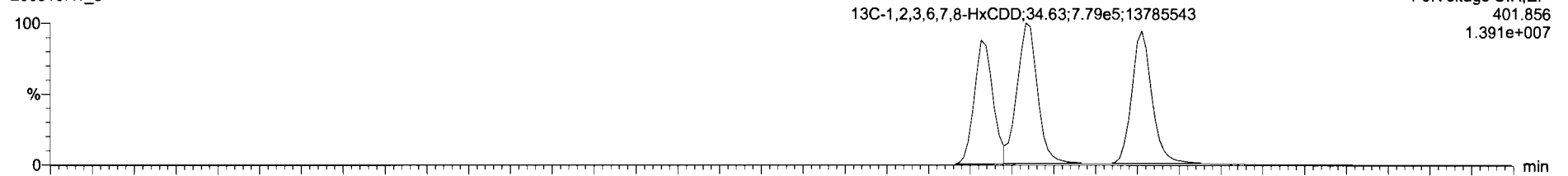


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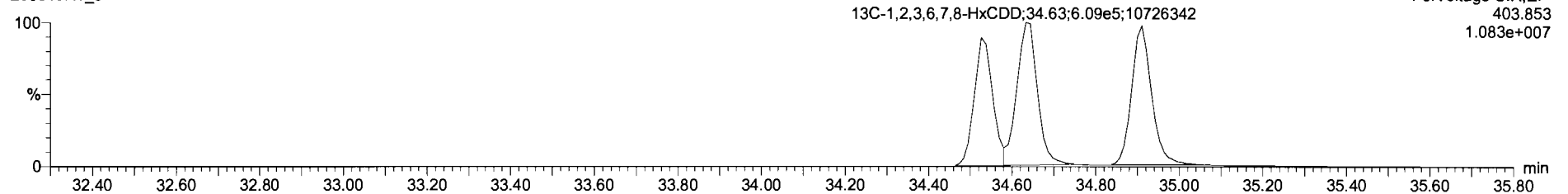


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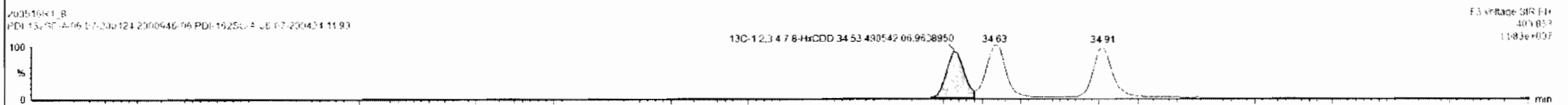
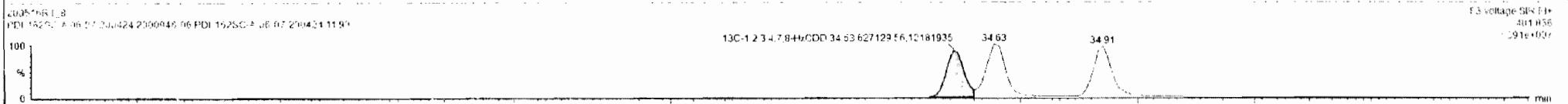
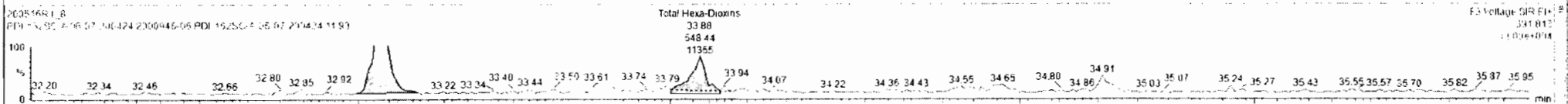
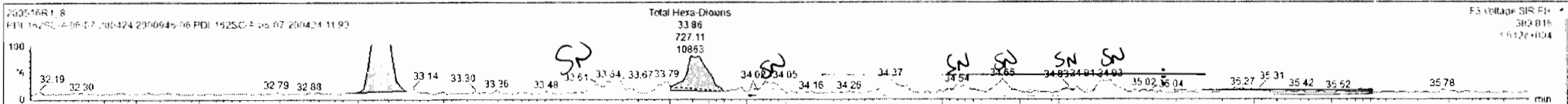


200516R1_8



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.874			0.0943		0.0506	0.0546
40 Total Penta-Dioxins				0.9425	10.874					0.0155	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.07	1.600e3	1.321e3	1.21	NO	0.46219	0.48219
2 Total Hexa-Dioxins	33.86	7.271e2	5.484e2	1.33	NO	0.20184	0.20184



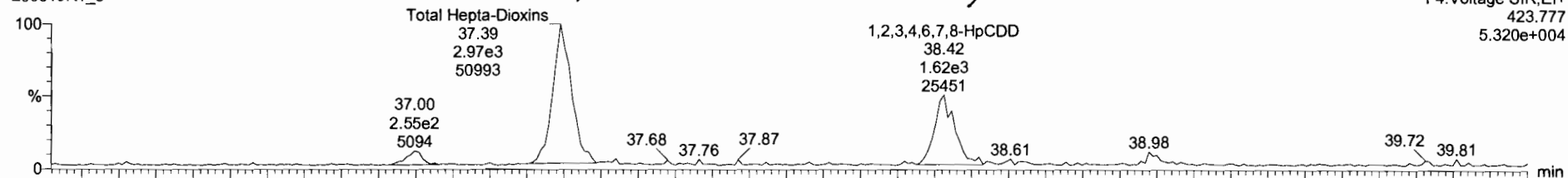
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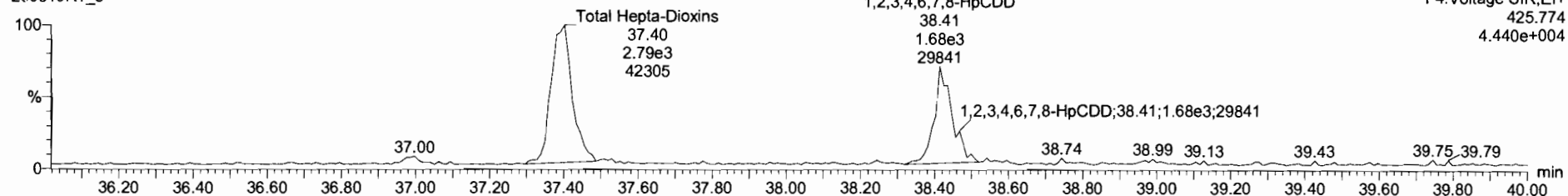
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1,2,3,4,6,7,8-HpCDD

200516R1_8

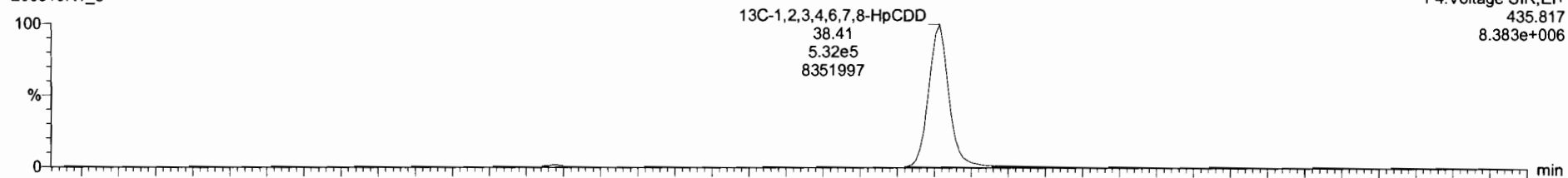


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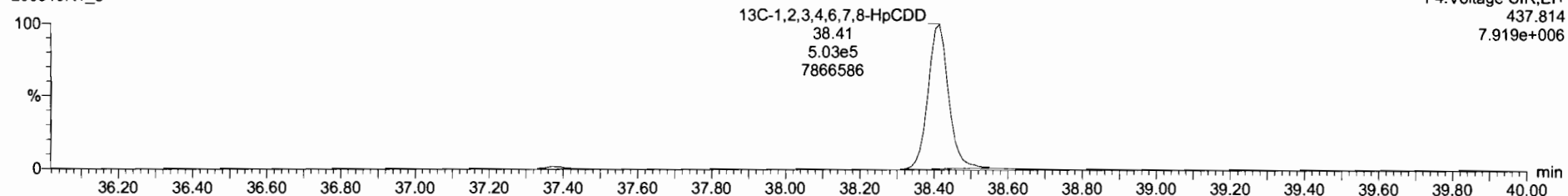


13C-1,2,3,4,6,7,8-HpCDD

200516R1_8



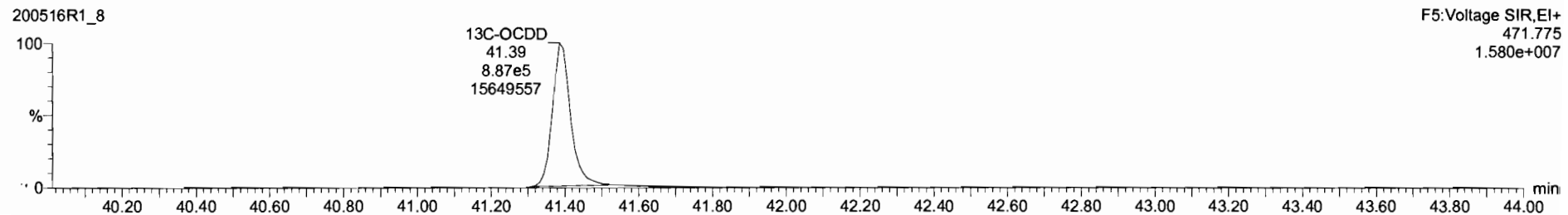
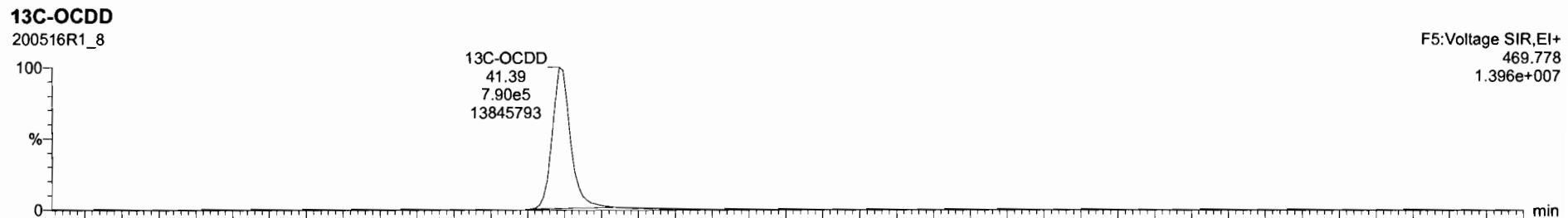
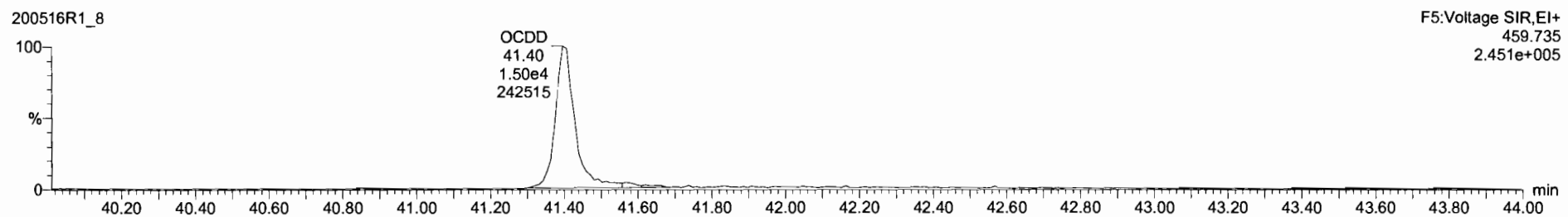
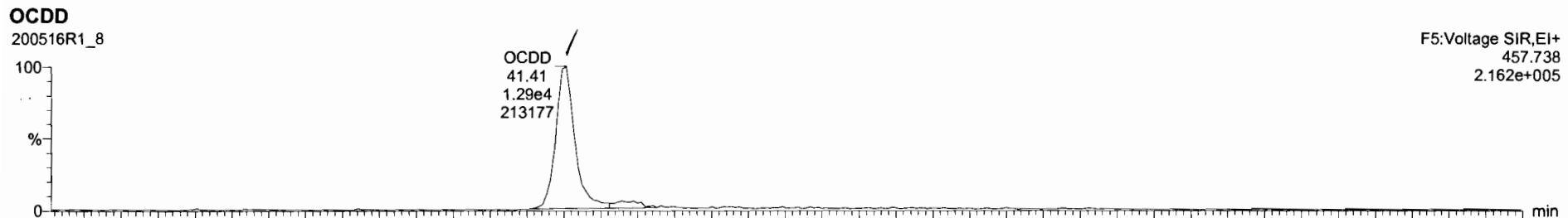
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Name: 200516R1_8, Date: 16-May-2020, Time: 14:35:29, ID: 2000946-06 PDI-162SC-A-06-07-200424 11.93, Description: PDI-162SC-A-06-07-200424



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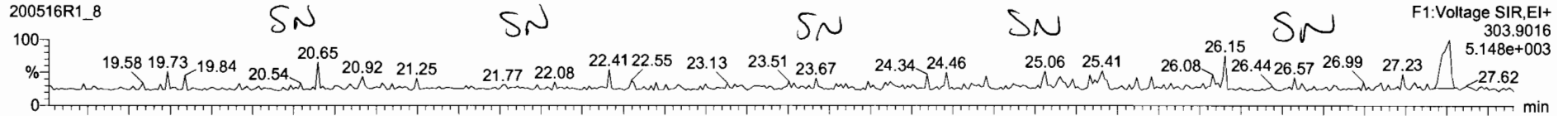
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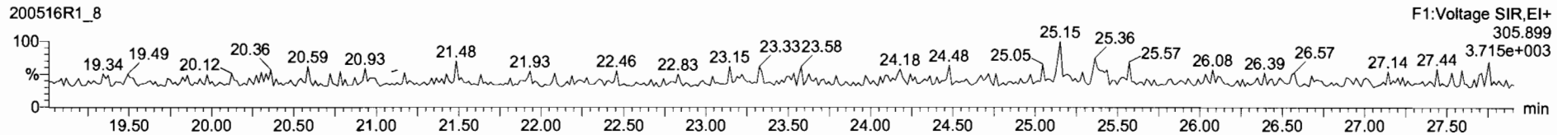
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2,3,7,8-TCDF

200516R1_8

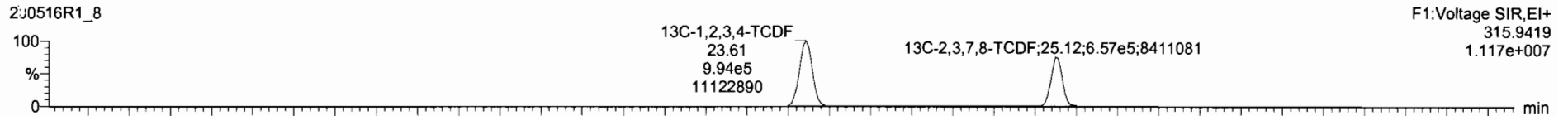


200516R1_8

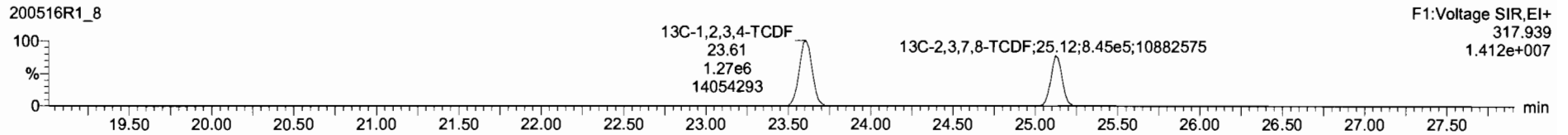


13C-2,3,7,8-TCDF

200516R1_8

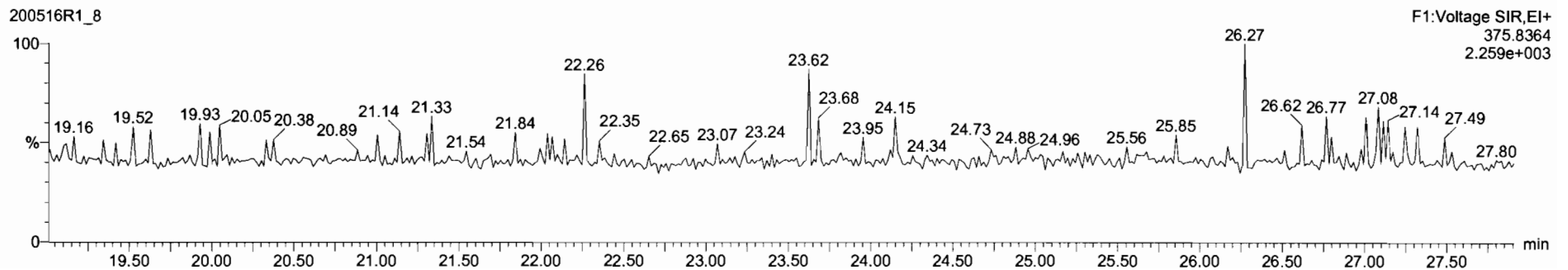


200516R1_8



DPE1

200516R1_8



Dataset: Untitled

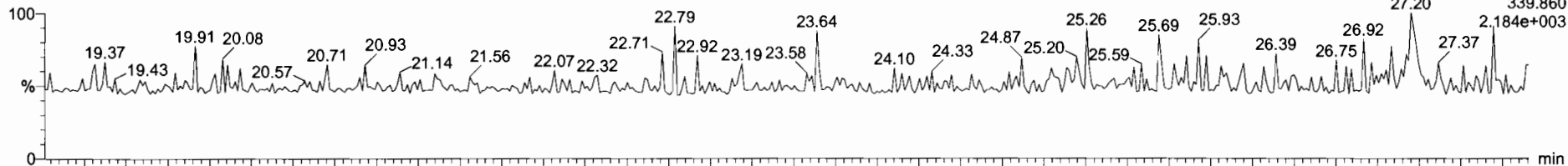
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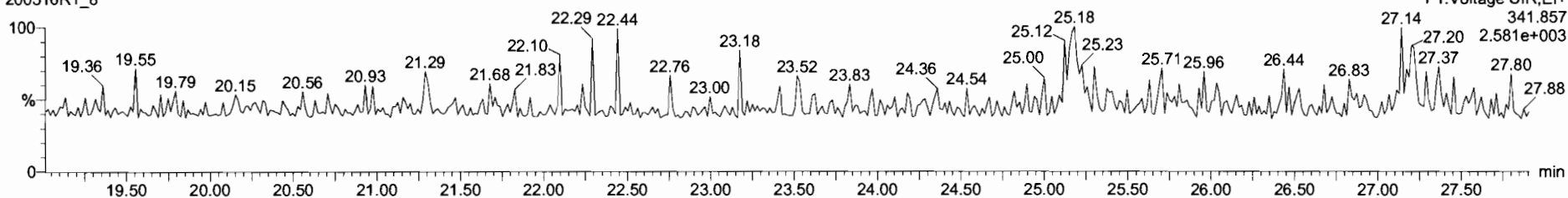
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1st Func. Penta-Furans

200516R1_8

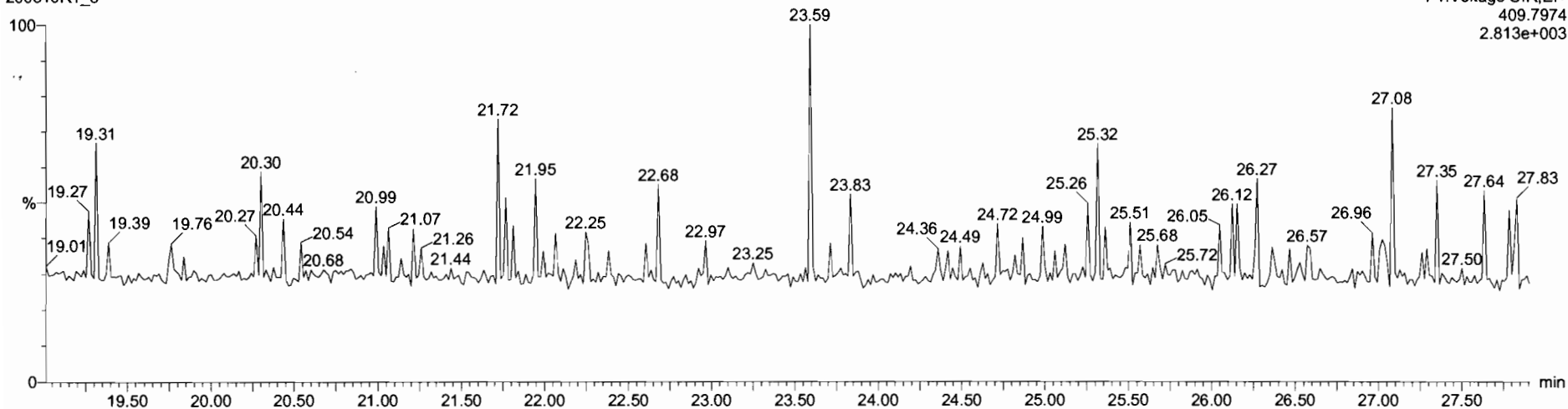


200516R1_8



DPE6

200516R1_8

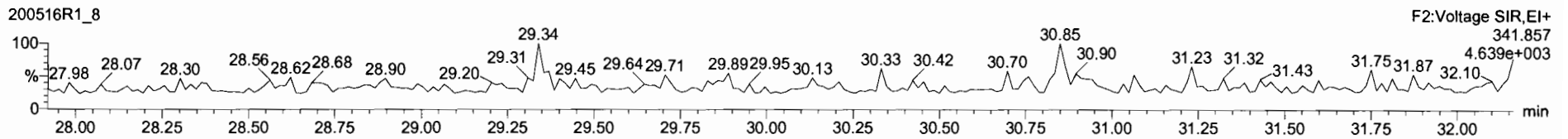
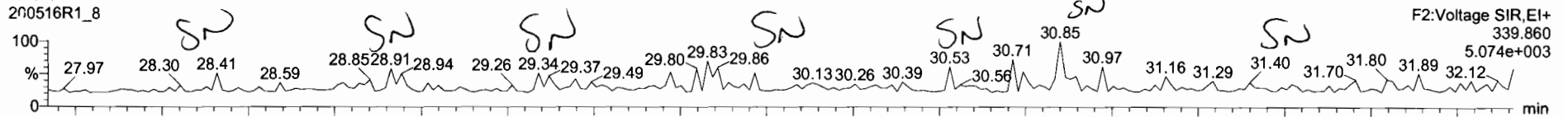


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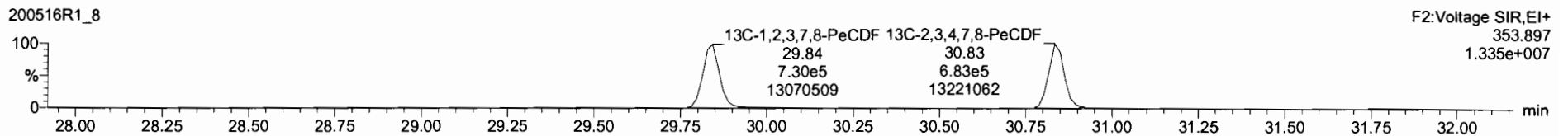
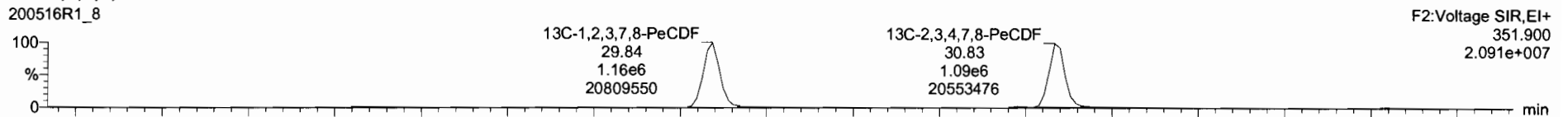
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Name: 200516R1_8, Date: 16-May-2020, Time: 14:35:29, ID: 2000946-06 PDI-162SC-A-06-07-200424 11.93, Description: PDI-162SC-A-06-07-200424

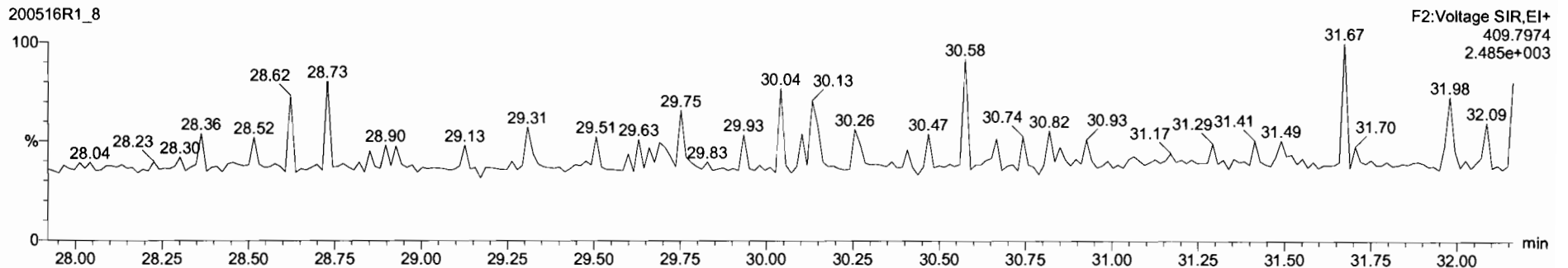
1,2,3,7,8-PeCDF



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



DPE2

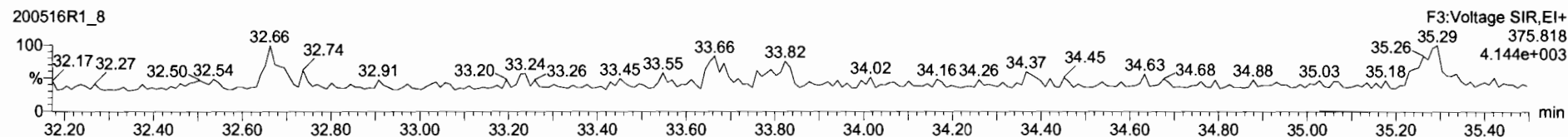
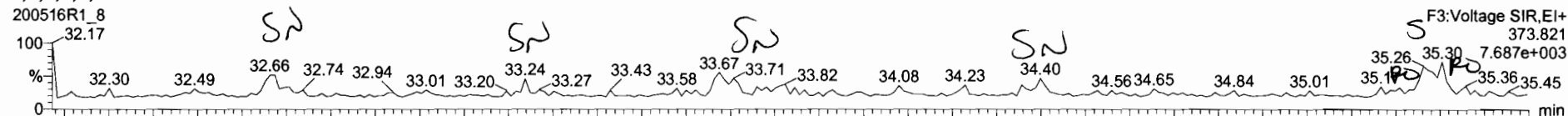


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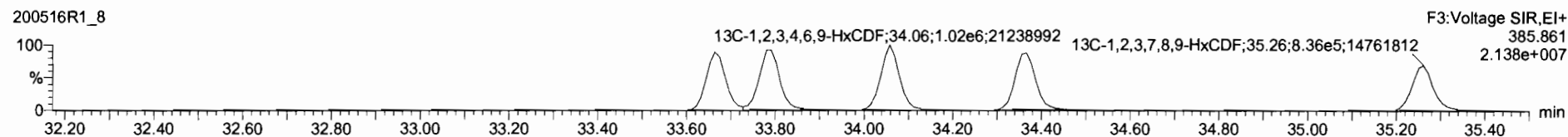
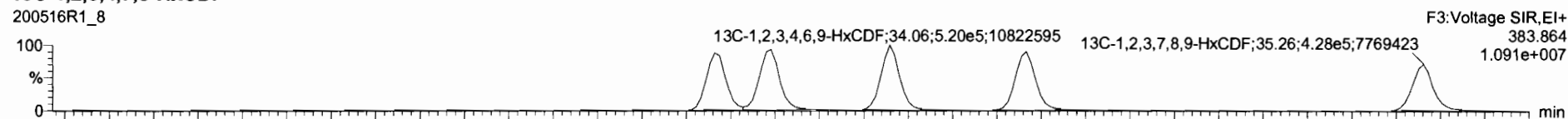
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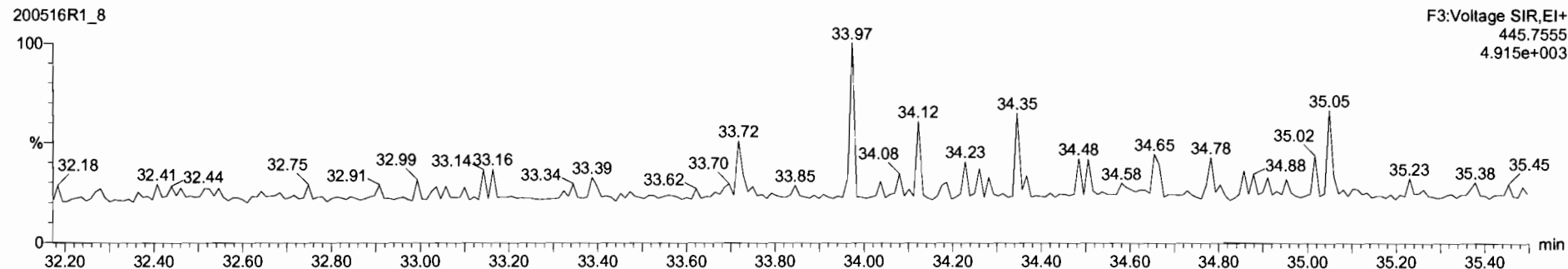
1,2,3,4,7,8-HxCDF



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

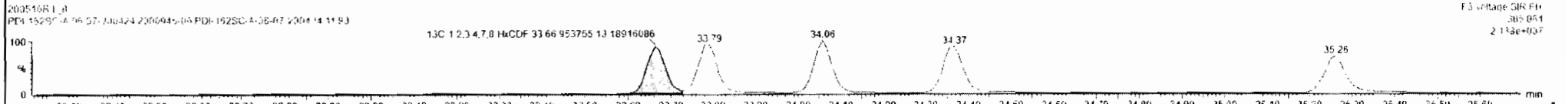
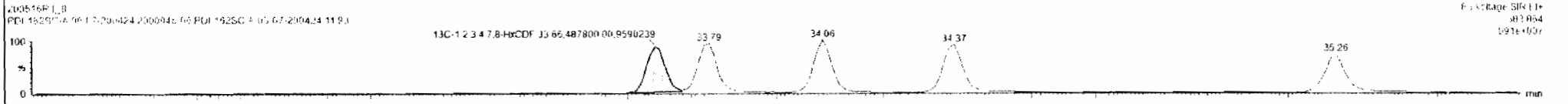
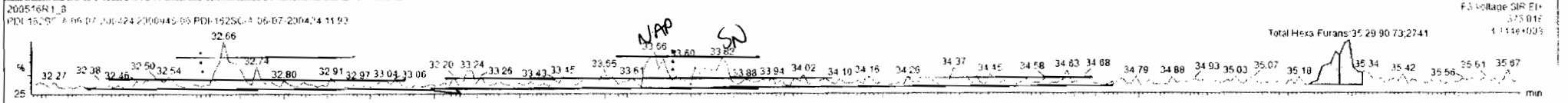
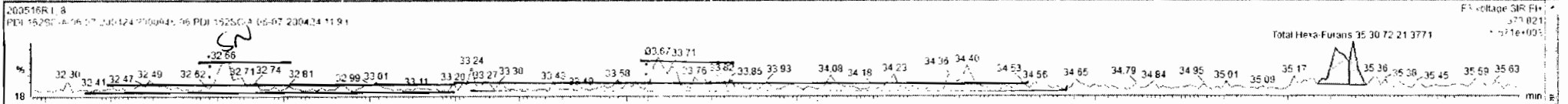


DPE3



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.074					0.0133	
46 Total Hexa-Furans				0.8217	10.574			0.000		0.0127	0.0465

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,7,8-HxCF	35.26	1.239e2	7.549e1	1.64	YES	0.026466	0.00000
2 Total Hexa-Furans	35.20	7.221e1	9.073e1	0.80	YES	0.018001	0.00000



Custom Reporting: Select reports to generate

200516R1_2

CAP NUM

Dataset: Untitled

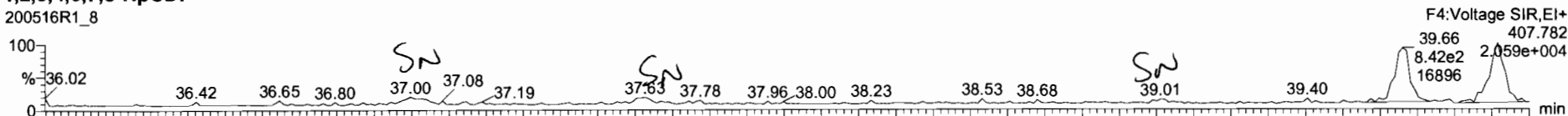
Last Altered: Monday, May 18, 2020 07:36:56 Pacific Daylight Time

Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

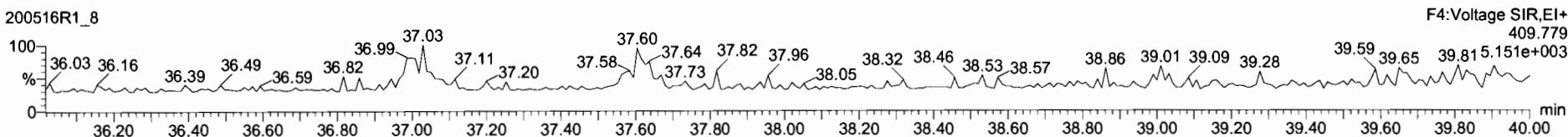
Name: 200516R1_8, Date: 16-May-2020, Time: 14:35:29, ID: 2000946-06 PDI-162SC-A-06-07-200424 11.93, Description: PDI-162SC-A-06-07-200424

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

200516R1_8

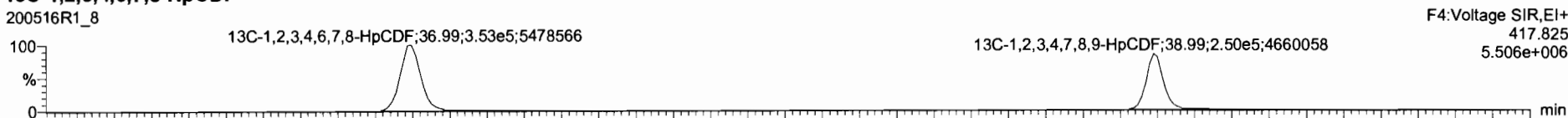


200516R1_8

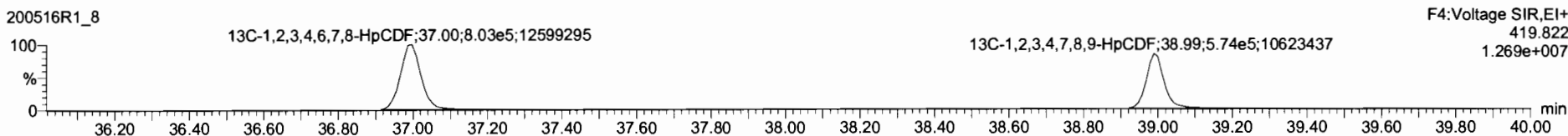


13C-1,2,3,4,6,7,8-HpCDF

200516R1_8

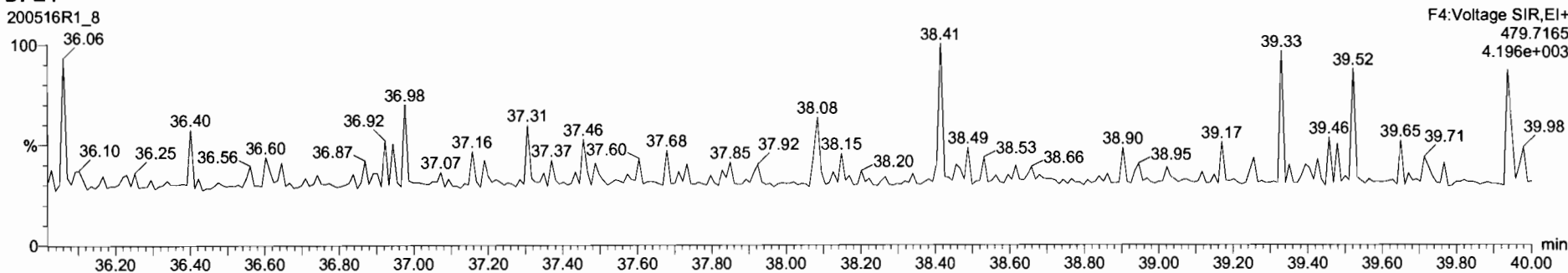


200516R1_8



DPE4

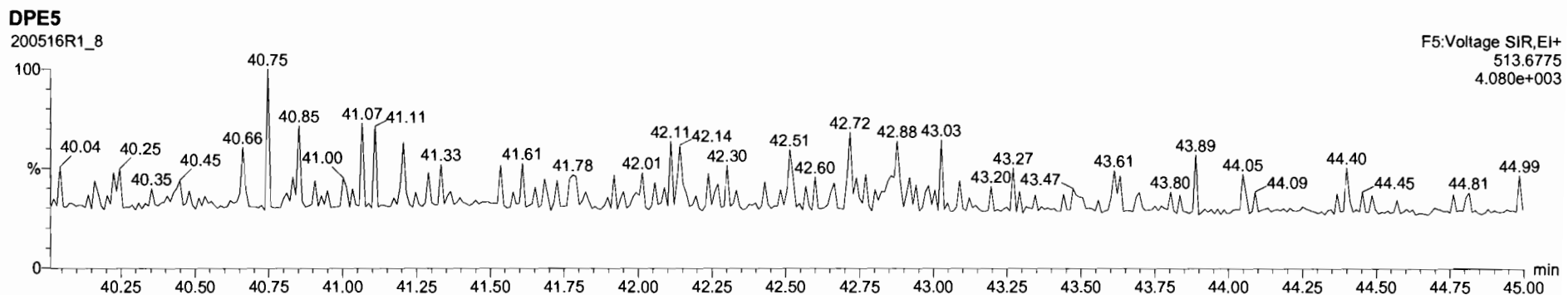
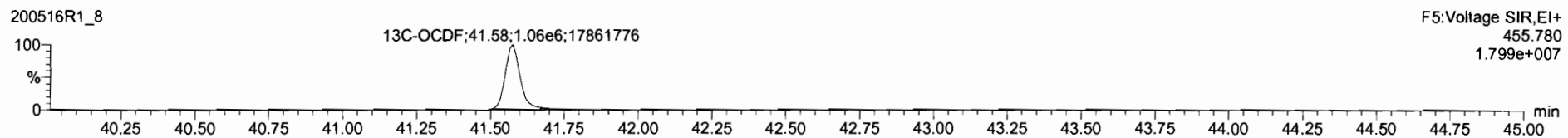
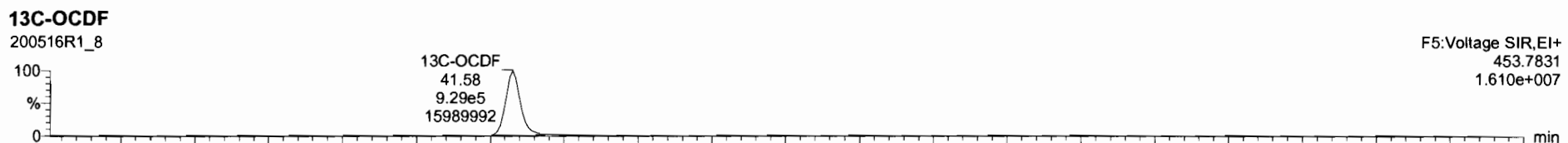
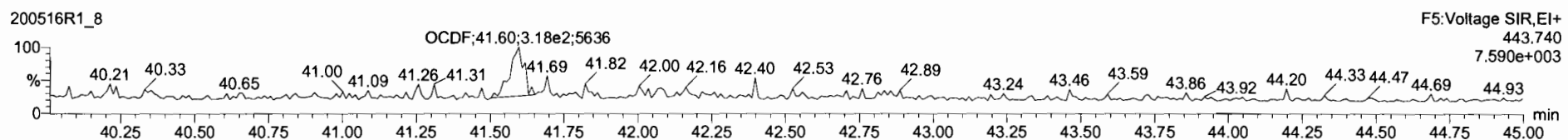
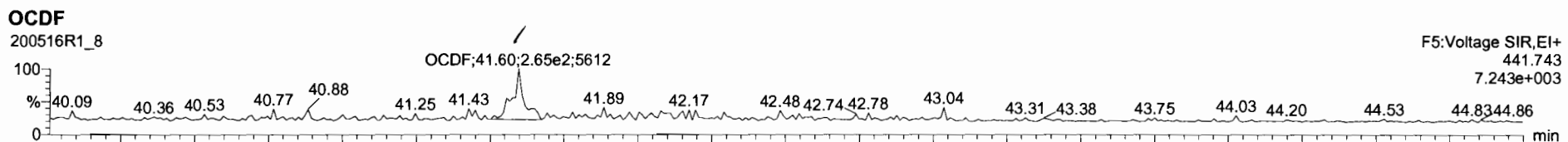
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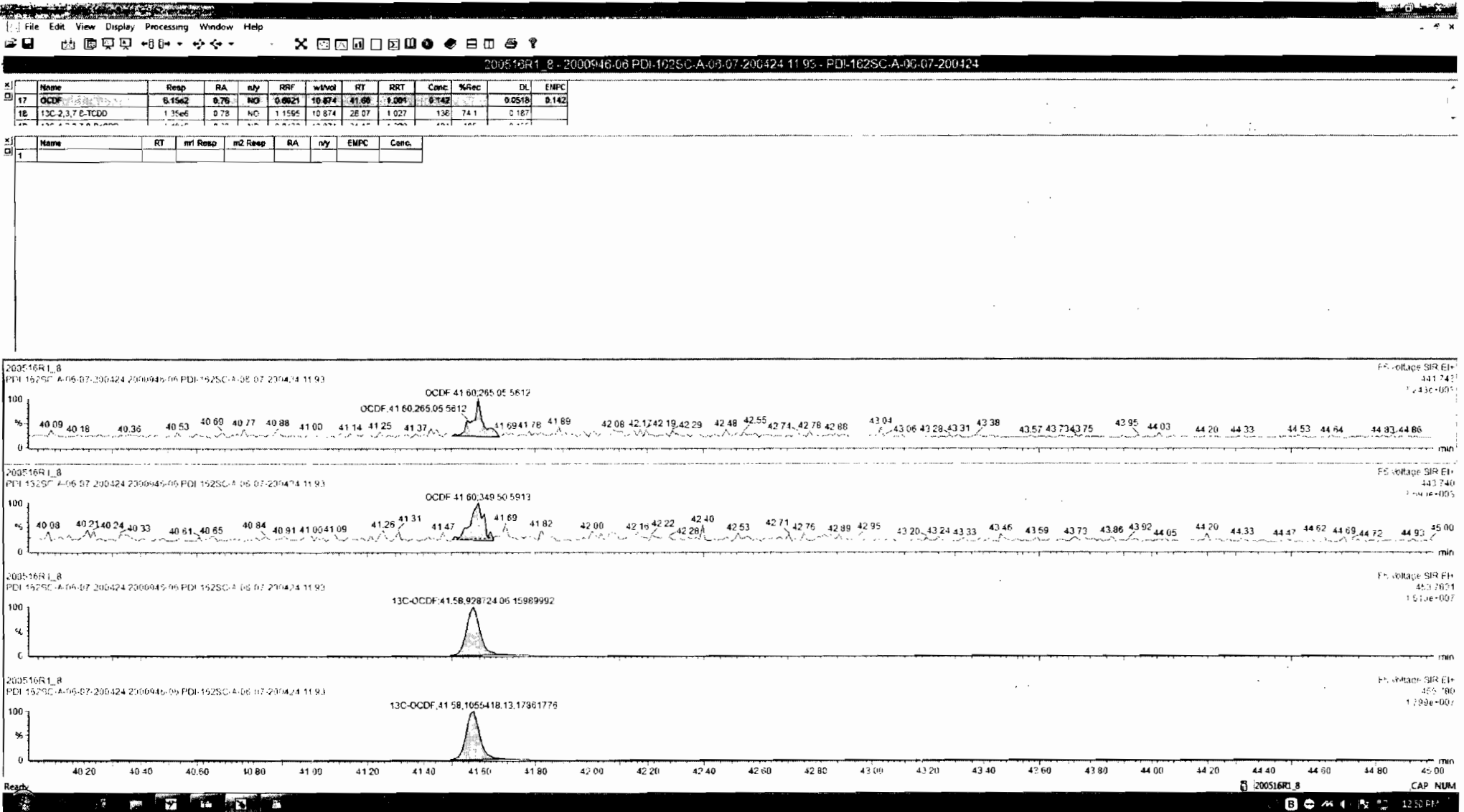


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Last Altered: Monday, May 18, 2020 07:36:56 Pacific Daylight Time
Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

Name: 200516R1_8, Date: 16-May-2020, Time: 14:35:29, ID: 2000946-06 PDI-162SC-A-06-07-200424 11.93, Description: PDI-162SC-A-06-07-200424



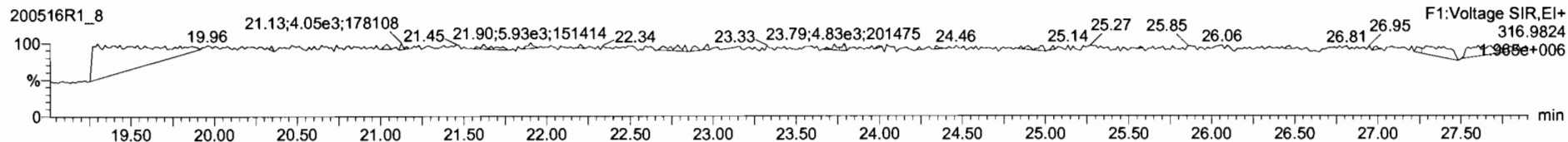


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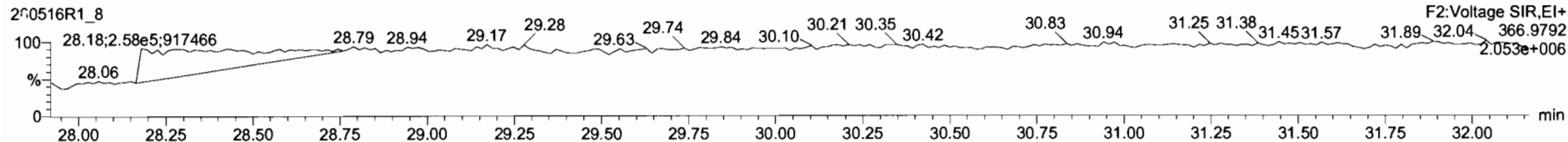
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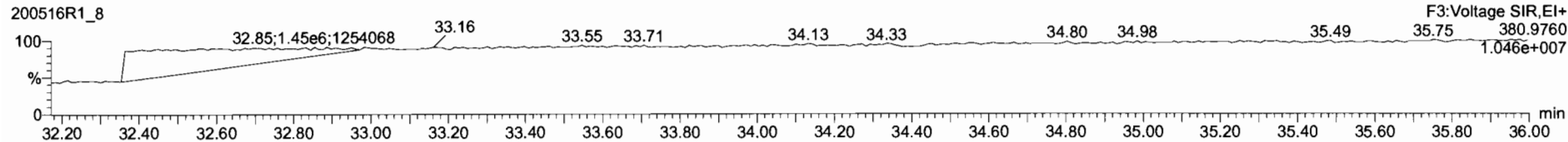
PFK1



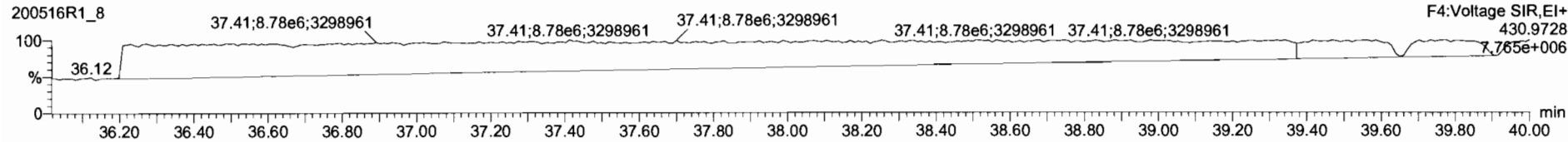
PFK2



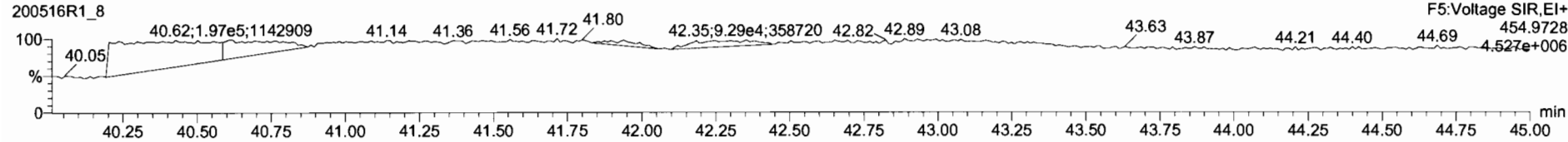
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200516R1\200516R1-9.qld

Last Altered: Monday, May 18, 2020 13:46:52 Pacific Daylight Time

Printed: Monday, May 18, 2020 13:47:26 Pacific Daylight Time

GPB 05/18/2020

C7 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: 200516R1_9, Date: 16-May-2020, Time: 15:21:39, ID: 2000946-07 PDI-162SC-A-07-08-200424 12.09, Description: PDI-162SC-A-07-08-200424

#	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	1.31e3	0.32	YES	0.947	10.105	26.081	26.08	1.001	1.001	0.22851		0.0732	0.128
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.105	31.147		1.001				0.0813	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.105	34.526		1.000				0.0689	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.105	34.612		1.000				0.0735	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.105	34.899		1.000				0.0762	
6	6 1,2,3,4,6,7,8-HpCDD	3.81e3	1.01	NO	0.898	10.105	38.416	38.40	1.000	1.000	1.2018		0.107	1.20
7	7 OCDD	2.88e4	0.90	NO	0.933	10.105	41.375	41.39	1.000	1.000	10.445		0.128	10.4
8	8 2,3,7,8-TCDF			NO	0.787	10.105	25.147		1.001				0.0446	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.105	29.834		1.001				0.0485	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.105	30.851		1.001				0.0431	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.105	33.643		1.000				0.0450	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.105	33.781		1.000				0.0455	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.105	34.380		1.001				0.0489	
14	14 1,2,3,7,8,9-HxCDF	2.31e2	1.06	NO	0.864	10.105	35.240	35.27	1.000	1.001	0.060214		0.0359	0.0602
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.105	37.014		1.001				0.0636	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.105	38.979		1.000				0.0584	
17	17 OCDF			NO	0.802	10.105	41.556		1.000				0.0914	
18	18 13C-2,3,7,8-TCDD	1.20e6	0.78	NO	1.16	10.105	26.031	26.05	1.026	1.027	136.86	69.2	0.178	
19	19 13C-1,2,3,7,8-PeCDD	1.03e6	0.64	NO	0.847	10.105	31.123	31.13	1.227	1.227	160.74	81.2	0.167	
20	20 13C-1,2,3,4,7,8-HxCDD	7.74e5	1.29	NO	0.750	10.105	34.517	34.52	1.014	1.014	139.62	70.5	0.237	
21	21 13C-1,2,3,6,7,8-HxCDD	9.34e5	1.27	NO	0.963	10.105	34.629	34.61	1.017	1.017	131.18	66.3	0.184	
22	22 13C-1,2,3,7,8,9-HxCDD	8.72e5	1.27	NO	0.838	10.105	34.898	34.89	1.025	1.025	140.82	71.1	0.212	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.98e5	1.05	NO	0.641	10.105	38.390	38.40	1.128	1.128	147.17	74.4	0.234	
24	24 13C-OCDD	1.17e6	0.89	NO	0.586	10.105	41.386	41.38	1.216	1.216	269.83	68.2	0.274	
25	25 13C-2,3,7,8-TCDF	1.46e6	0.78	NO	1.03	10.105	25.090	25.12	0.989	0.991	127.15	64.2	0.223	
26	26 13C-1,2,3,7,8-PeCDF	1.41e6	1.61	NO	0.845	10.105	29.812	29.81	1.176	1.176	151.02	76.3	0.247	
27	27 13C-2,3,4,7,8-PeCDF	1.38e6	1.59	NO	0.814	10.105	30.803	30.82	1.215	1.215	153.49	77.6	0.256	
28	28 13C-1,2,3,4,7,8-HxCDF	1.02e6	0.52	NO	1.00	10.105	33.656	33.64	0.989	0.988	137.37	69.4	0.197	
29	29 13C-1,2,3,6,7,8-HxCDF	1.09e6	0.52	NO	1.14	10.105	33.778	33.77	0.992	0.992	129.91	65.6	0.175	
30	30 13C-2,3,4,6,7,8-HxCDF	9.15e5	0.51	NO	1.02	10.105	34.347	34.35	1.009	1.009	120.97	61.1	0.194	
31	31 13C-1,2,3,7,8,9-HxCDF	8.80e5	0.51	NO	0.845	10.105	35.239	35.24	1.035	1.035	140.88	71.2	0.235	

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-9.qld

Last Altered: Monday, May 18, 2020 13:46:52 Pacific Daylight Time

Printed: Monday, May 18, 2020 13:47:26 Pacific Daylight Time

Name: 200516R1_9, Date: 16-May-2020, Time: 15:21:39, ID: 2000946-07 PDI-162SC-A-07-08-200424 12.09, Description: PDI-162SC-A-07-08-200424

#	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	7.57e5	0.43	NO	0.771	10.105	36.971	36.98	1.086	1.086	132.73	67.1	0.290	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.92e5	0.42	NO	0.482	10.105	38.983	38.98	1.145	1.145	166.12	83.9	0.464	
34	34 13C-OCDF	1.25e6	0.88	NO	0.669	10.105	41.556	41.56	1.221	1.221	253.36	64.0	0.199	
35	35 37Cl-2,3,7,8-TCDD	6.70e5			1.19	10.105	26.061	26.07	1.028	1.028	80.786	102	0.0449	
36	36 13C-1,2,3,4-TCDD	1.49e6	0.79	NO	1.00	10.105	25.350	25.36	1.000	1.000	197.92	100	0.206	
37	37 13C-1,2,3,4-TCDF	2.19e6	0.79	NO	1.00	10.105	23.560	23.59	1.000	1.000	197.92	100	0.231	
38	38 13C-1,2,3,4,6,9-HxCDF	1.46e6	0.51	NO	1.00	10.105	34.000	34.04	1.000	1.000	197.92	100	0.198	
39	39 Total Tetra-Dioxins				0.947	10.105	24.620		0.000		0.40309		0.0732	0.971
40	40 Total Penta-Dioxins				0.942	10.105	29.960		0.000		0.24423		0.0813	0.598
41	41 Total Hexa-Dioxins				0.915	10.105	33.635		0.000		1.6890		0.0764	1.69
42	42 Total Hepta-Dioxins				0.898	10.105	37.640		0.000		3.4944		0.107	3.49
43	43 Total Tetra-Furans				0.787	10.105	23.610		0.000				0.0205	
44	44 1st Func. Penta-Furans				0.910	10.105	27.090		0.000				0.00786	
45	45 Total Penta-Furans				0.910	10.105	29.275		0.000		0.00000		0.0210	0.0665
46	46 Total Hexa-Furans				0.922	10.105	33.555		0.000		0.060214		0.0280	0.0602
47	47 Total Hepta-Furans				0.871	10.105	37.835		0.000				0.0332	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-9.qld

Last Altered: Monday, May 18, 2020 13:46:52 Pacific Daylight Time

Printed: Monday, May 18, 2020 13:47:26 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: 200516R1_9, Date: 16-May-2020, Time: 15:21:39, ID: 2000946-07 PDI-162SC-A-07-08-200424 12.09, Description: PDI-162SC-A-07-08-200424

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.79	9.735e3	1.623e4	7.741e2	1.190e3	0.65	YES	0.000e0	0.00000	0.31041	0.0732
2	Total Tetra-Dioxins	25.36	6.486e3	7.020e3	4.467e2	5.213e2	0.86	NO	9.680e2	0.16888	0.16888	0.0732
3	2,3,7,8-TCDD	26.08	4.397e3	1.419e4	3.187e2	9.911e2	0.32	YES	1.310e3	0.00000	0.12782	0.0732
4	Total Tetra-Dioxins	26.42	4.496e3	1.040e4	3.223e2	5.164e2	0.62	YES	0.000e0	0.00000	0.12923	0.0732
5	Total Tetra-Dioxins	27.05	1.068e4	1.089e4	6.135e2	7.291e2	0.84	NO	1.343e3	0.23422	0.23422	0.0732

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.90	4.204e3	4.650e3	2.156e2	3.189e2	0.68	NO	5.345e2	0.10923	0.10923	0.0813
2	Total Penta-Dioxins	29.35	7.620e3	3.420e4	6.689e2	2.937e3	0.23	YES	0.000e0	0.00000	0.35370	0.0813
3	Total Penta-Dioxins	31.54	6.248e3	7.337e3	2.657e2	3.949e2	0.67	NO	6.606e2	0.13500	0.13500	0.0813

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.05	5.250e4	4.281e4	2.634e3	2.192e3	1.20	NO	4.826e3	1.2141	1.2141	0.0764
2	Total Hexa-Dioxins	33.86	1.598e4	1.573e4	1.028e3	8.597e2	1.20	NO	1.888e3	0.47495	0.47495	0.0764

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.39	5.027e4	5.622e4	3.457e3	3.804e3	0.91	NO	7.261e3	2.2926	2.2926	0.107
2	1,2,3,4,6,7,8-HpCDD	38.40	2.664e4	3.057e4	1.914e3	1.892e3	1.01	NO	3.806e3	1.2018	1.2018	0.107

Tetra-Furans

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

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	29.31	5.788e3	1.043e4	2.600e2	6.971e2	0.37	YES	0.000e0	0.00000	0.066486	0.0471

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	35.27	2.495e3	2.117e3	1.191e2	1.123e2	1.06	NO	2.314e2	0.060214	0.060214	0.0359

Hepta-Furans

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

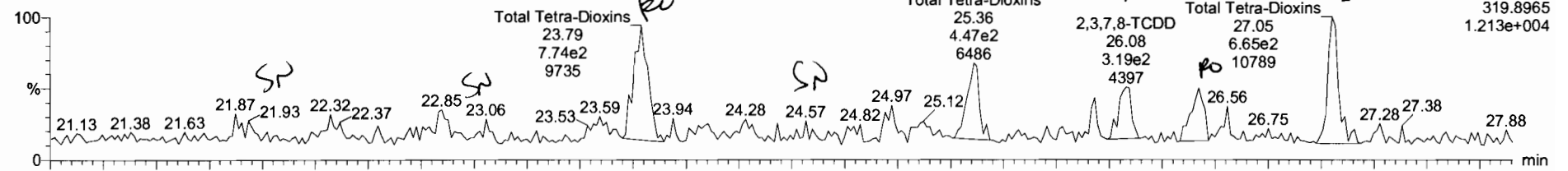
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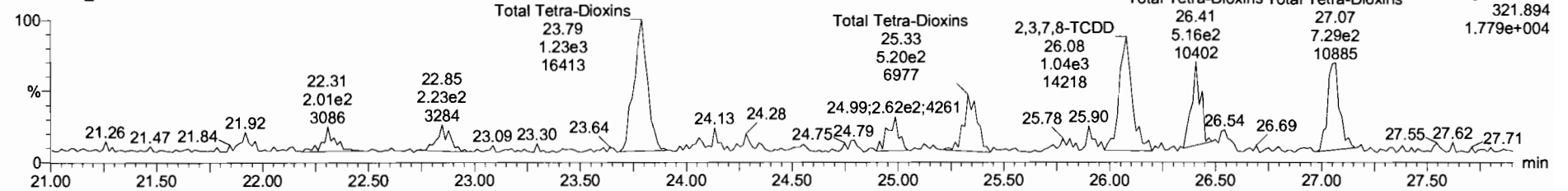
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2,3,7,8-TCDD

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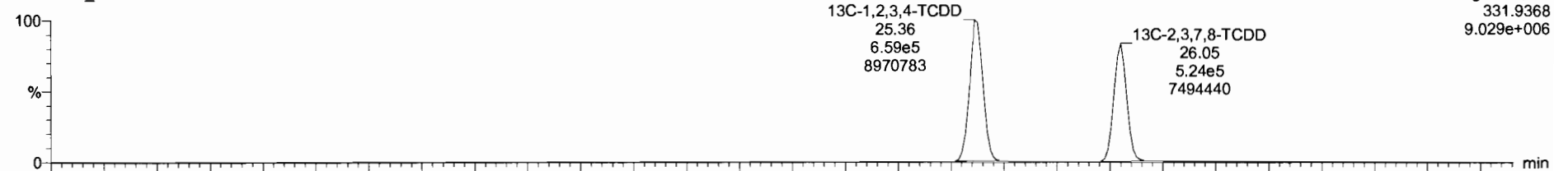


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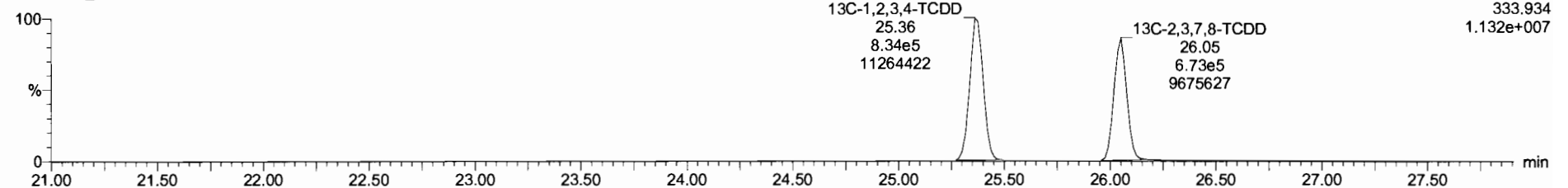


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200516R1_9



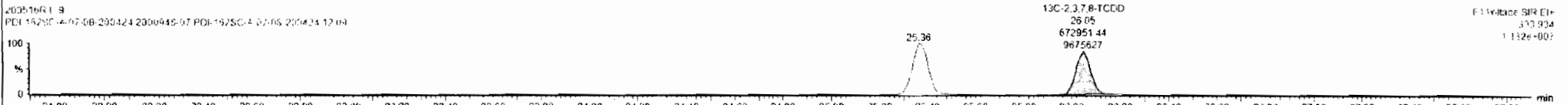
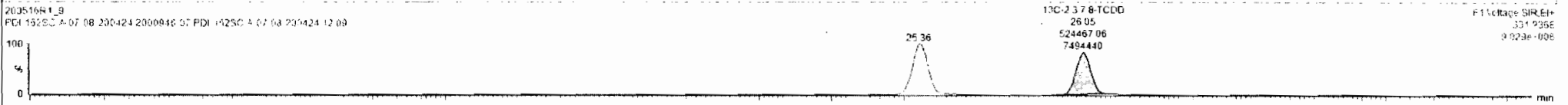
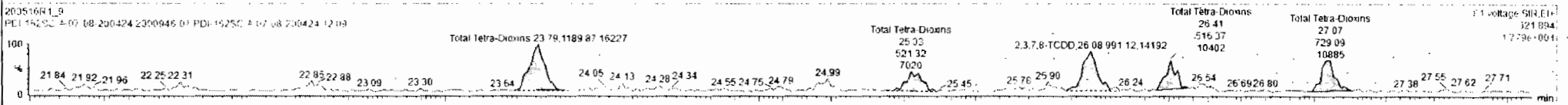
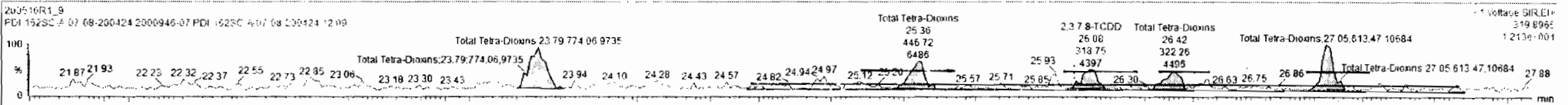
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200616R1_9 - 20090807 PDI 162SC A-07-08-200424 12:09 - PDI 162SC A-07-08-200424

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.106			0.493	0.0732	0.971	
40 Total Penta-Dioxins				0.9425	10.105			0.135	0.0613	0.555	
41 Total Hexa-Dioxins				0.9145	10.105			1.72	0.0764	1.85	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	23.79	7.241e2	1.190e3	0.65	YES	0.31041	0.00000
2 Total Tetra-Dioxins	25.36	4.467e2	5.213e2	0.66	NO	0.16868	0.15888
3 2,3,7,8-TCDD	26.08	3.127e2	9.911e2	0.32	YES	0.12782	0.00000
4 Total Tetra-Dioxins	26.42	3.222e2	5.164e2	0.62	YES	0.12923	0.00000
5 Total Tetra-Dioxins	27.05	6.135e2	7.291e2	0.64	NO	0.23422	0.23422



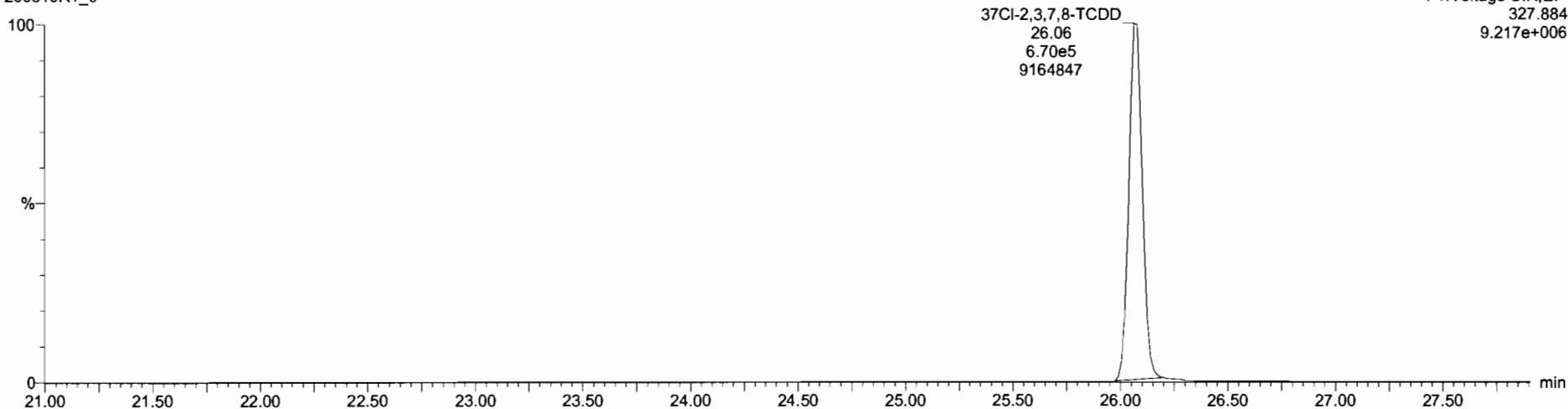
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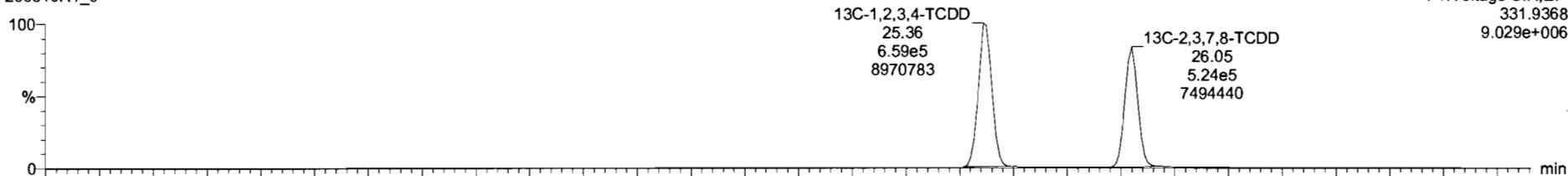
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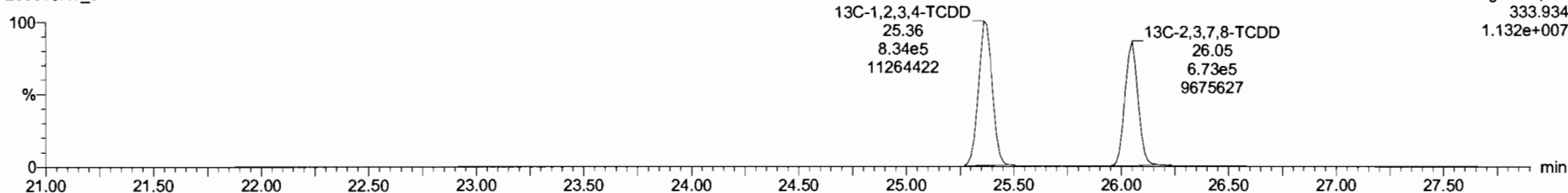


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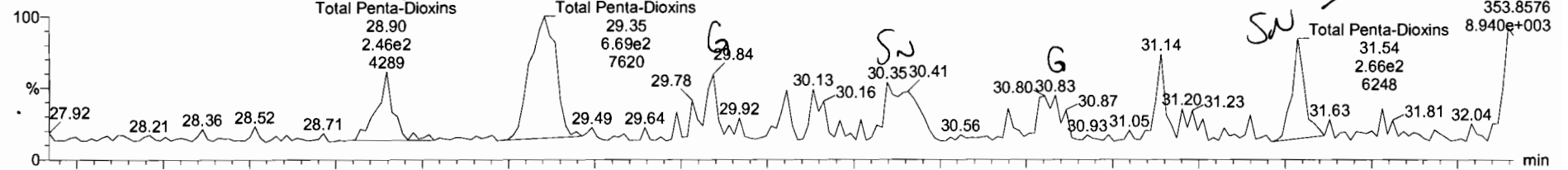
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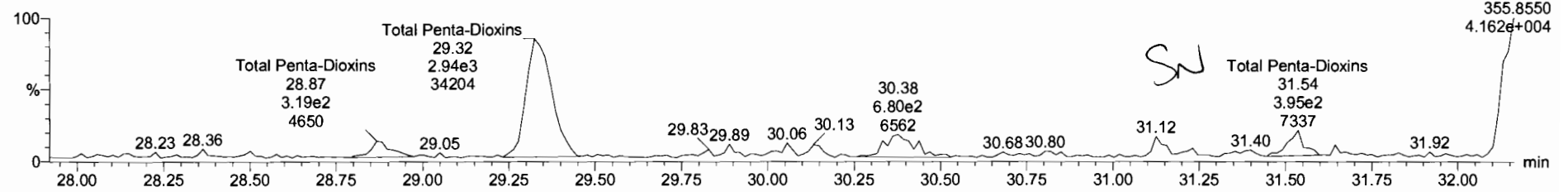
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1,2,3,7,8-PeCDD

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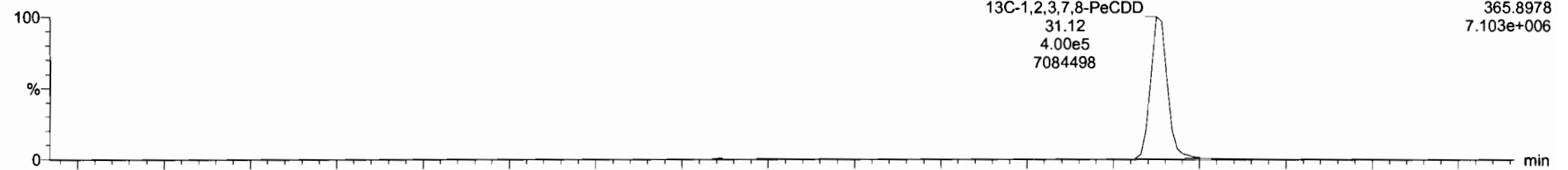


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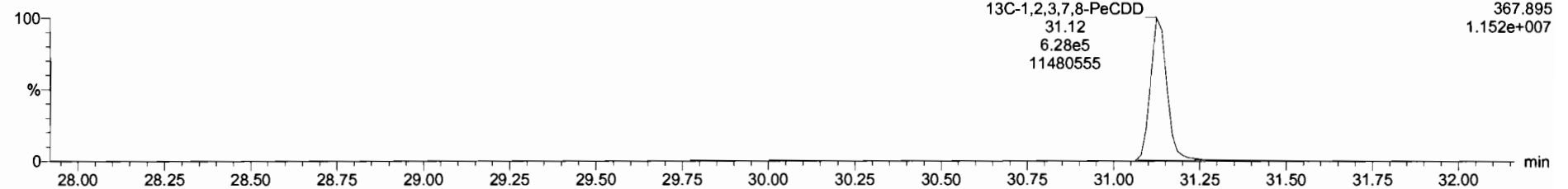


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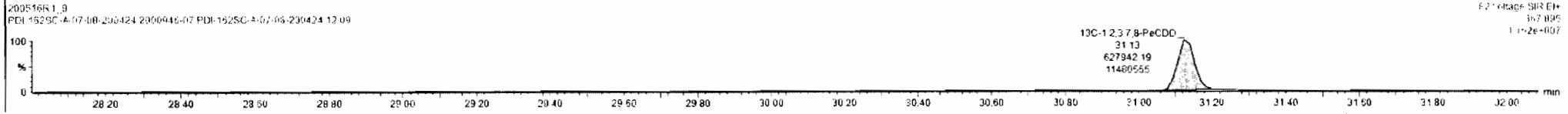
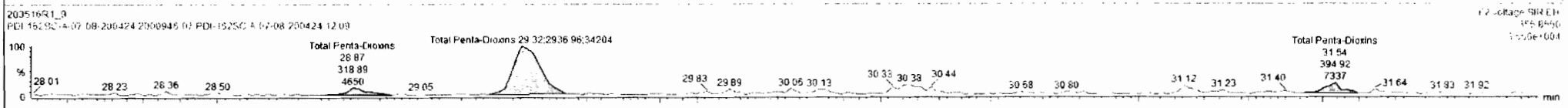
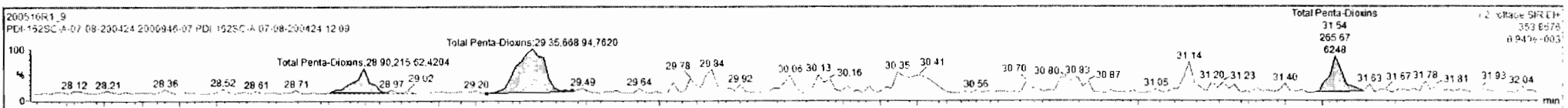


200516R1_9



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9475	10.105			0.402		0.0732	0.571
40	Total Penta-Dioxins				0.9425	10.105			0.244		0.0813	0.598
41	Total Hexa-Dioxins				0.9145	10.105			1.72		0.0764	1.85

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	28.90	2.15E+2	3.189E+2	0.68	NO	0.10923	0.10923
2	Total Penta-Dioxins	29.35	6.589E+2	2.937E+3	0.23	YES	0.35270	0.00000
3	Total Penta-Dioxins	31.54	2.657E+2	3.949E+2	0.67	NO	0.13500	0.12500

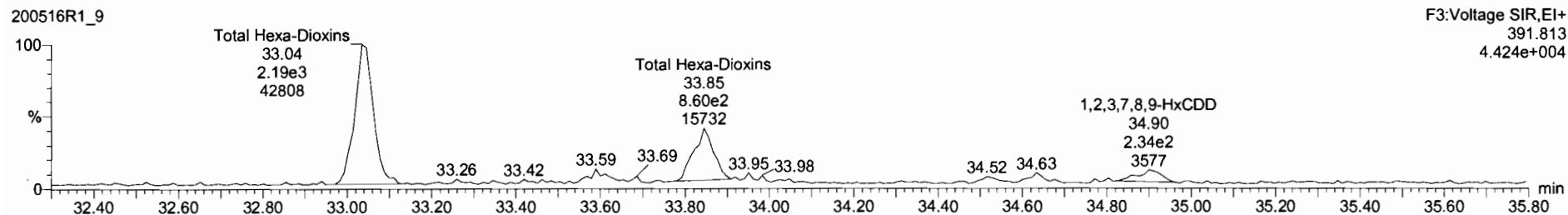
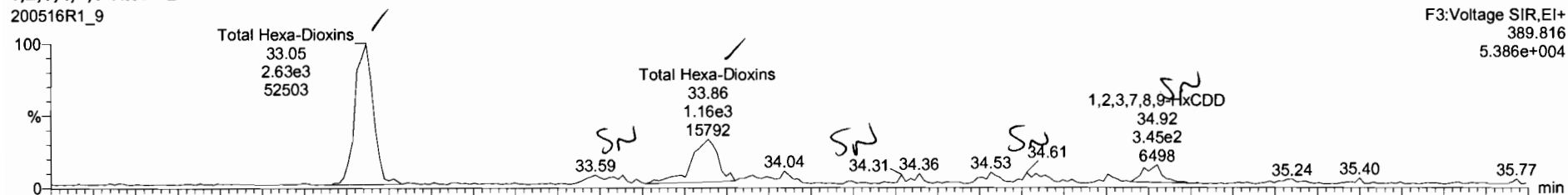


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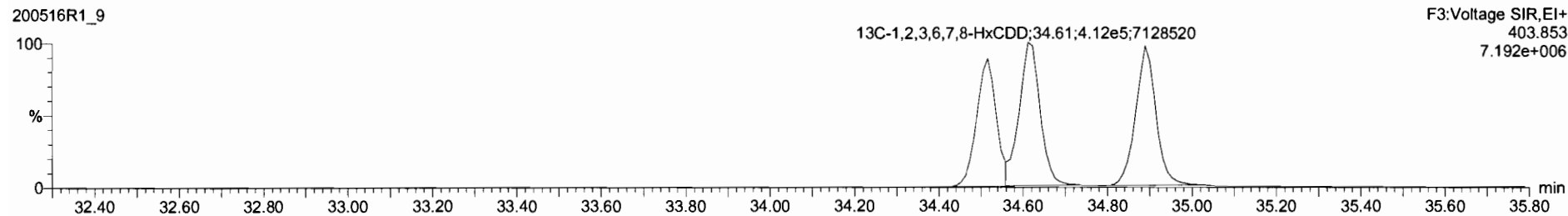
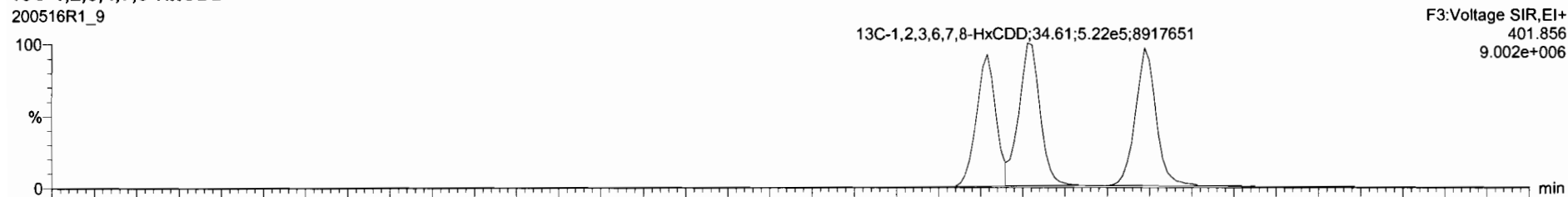
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1,2,3,4,7,8-HxCDD

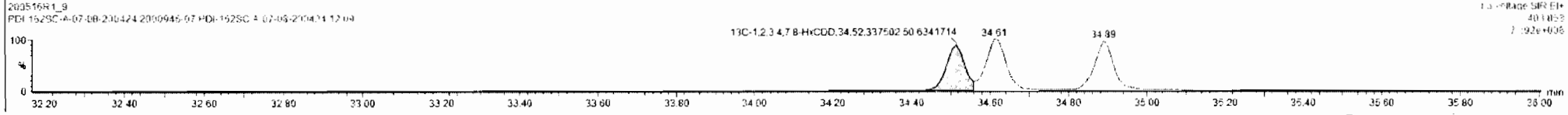
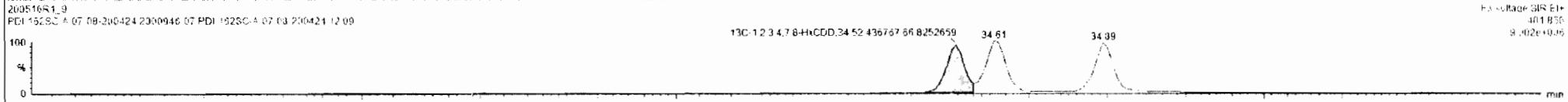
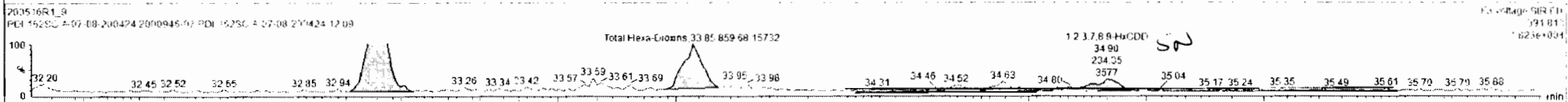
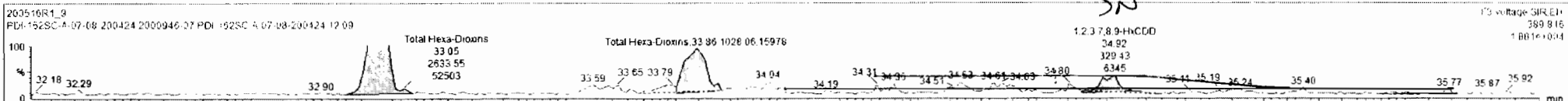


13C-1,2,3,4,7,8-HxCDD



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins			0.9475	10.105			0.402	0.0732	0.571	
40	Total Penta-Dioxins			0.9425	10.105			0.244	0.0813	0.598	
41	Total Hexa-Dioxins			0.9145	10.105			1.831	0.0764	1.831	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	Total Hexa-Dioxins	33.05	2.534e2	2.192e3	1.20	NO	1.2141
2	Total Hexa-Dioxins	33.86	1.020e3	8.597e2	1.20	NO	0.47495
3	1,2,3,7,8,9-HxCDD	34.92	3.294e2	2.344e2	1.41	NO	0.13984



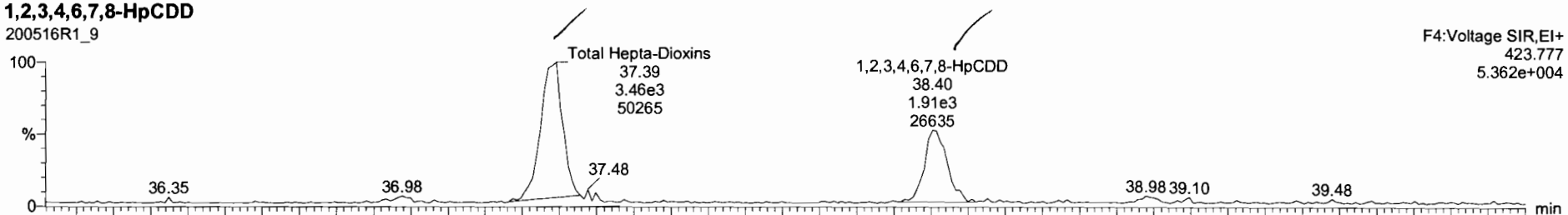
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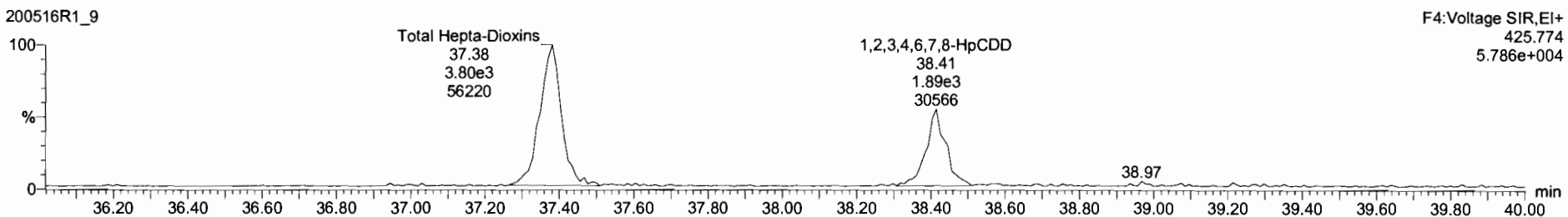
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1,2,3,4,6,7,8-HpCDD

200516R1_9

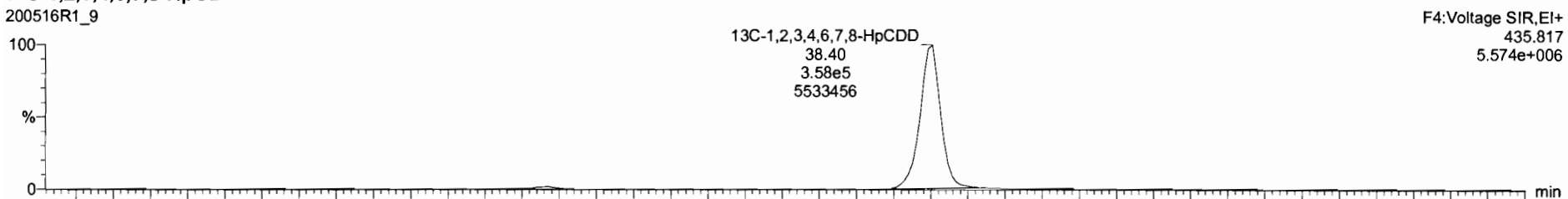


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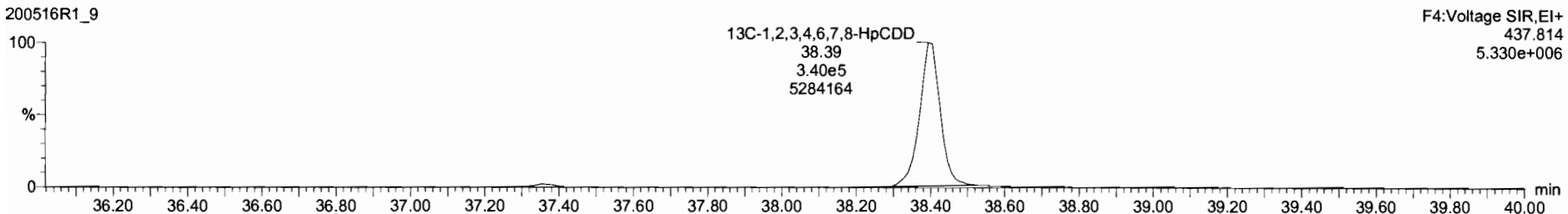


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200516R1_9



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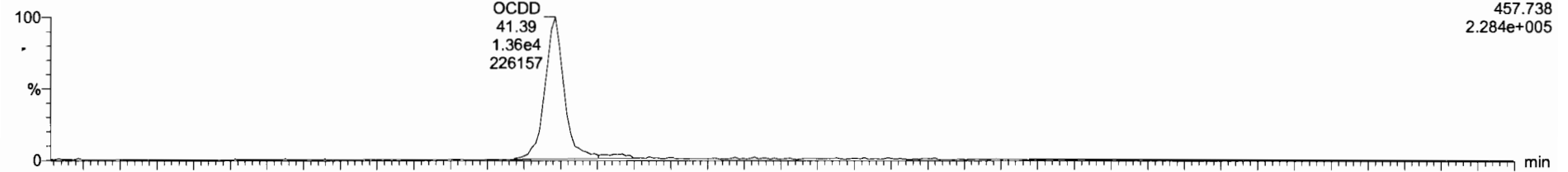
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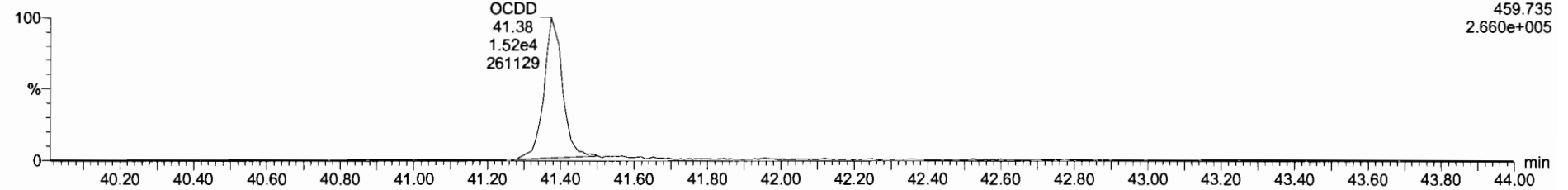
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OCDD

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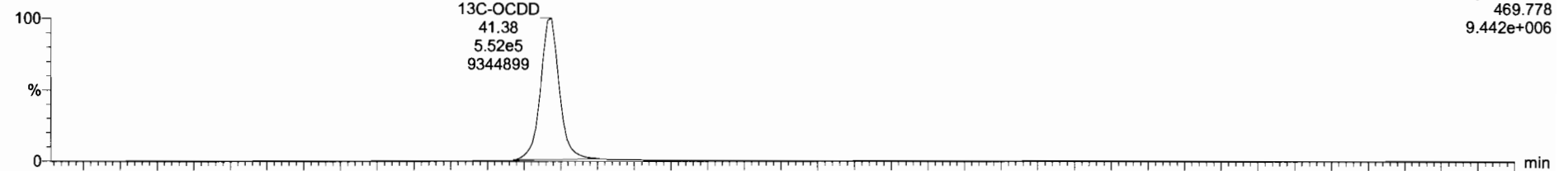


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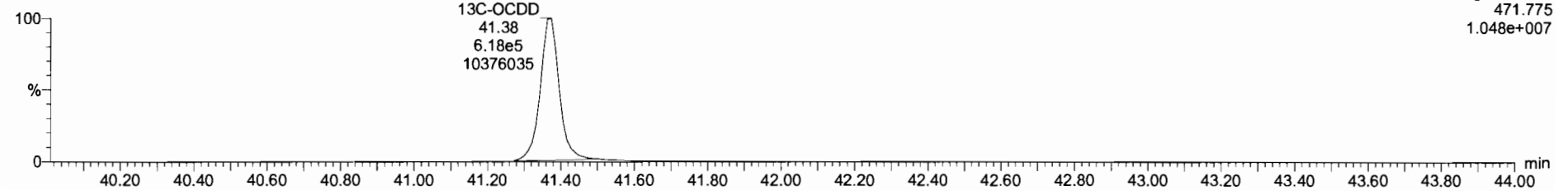


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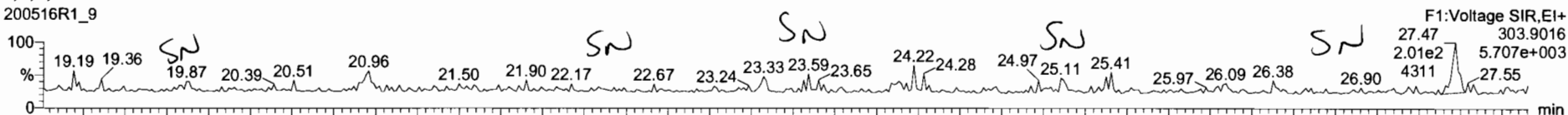
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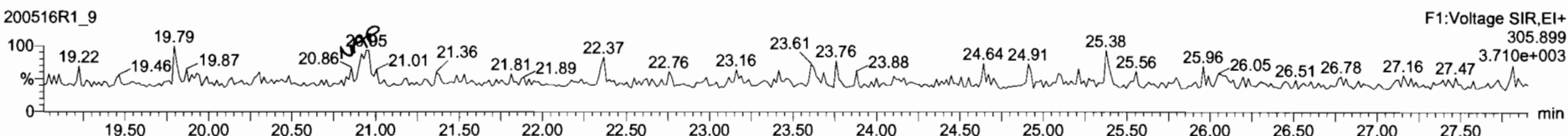
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2,3,7,8-TCDF

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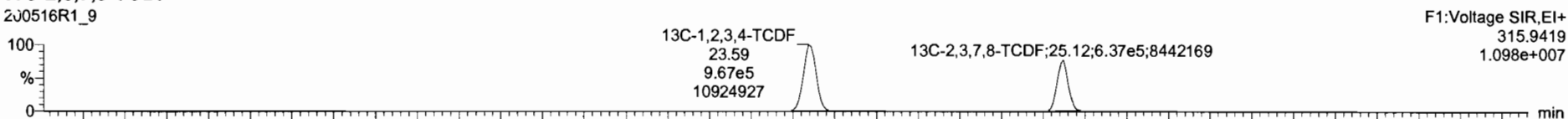


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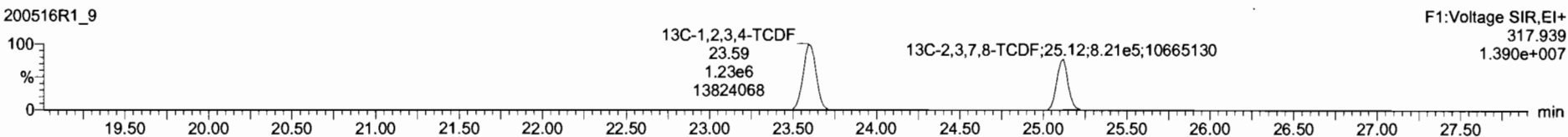


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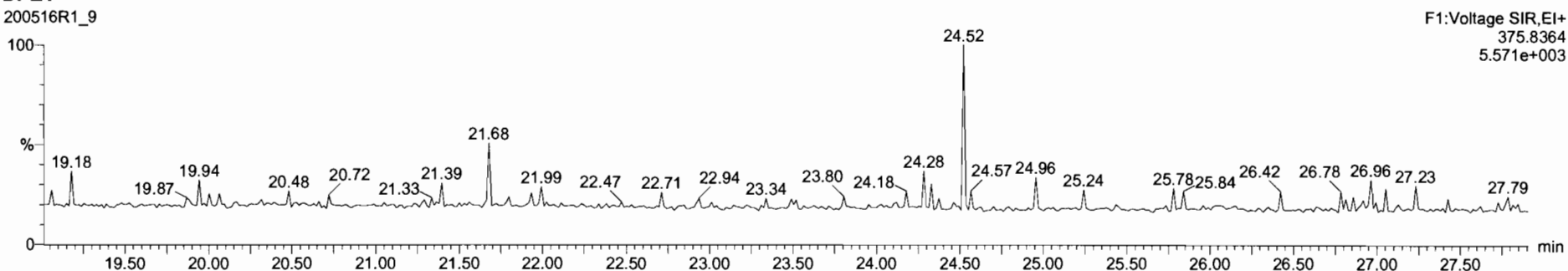


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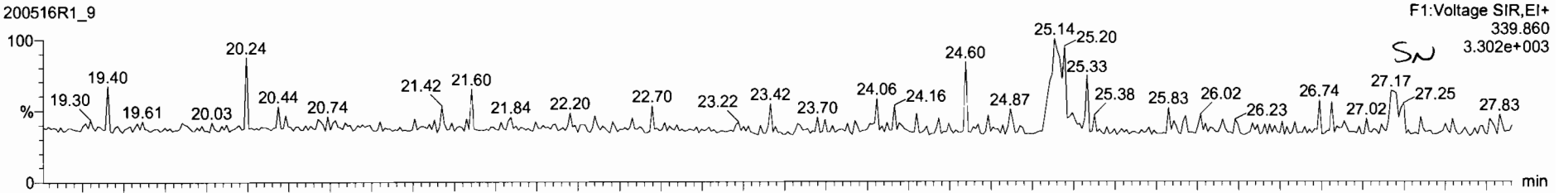
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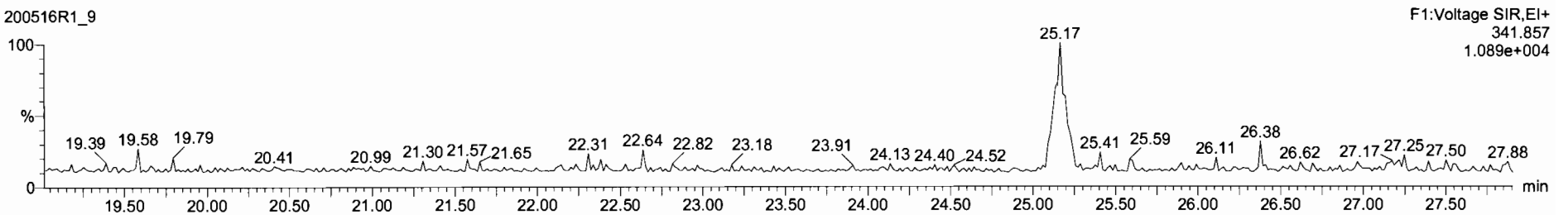
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1st Func. Penta-Furans

200516R1_9

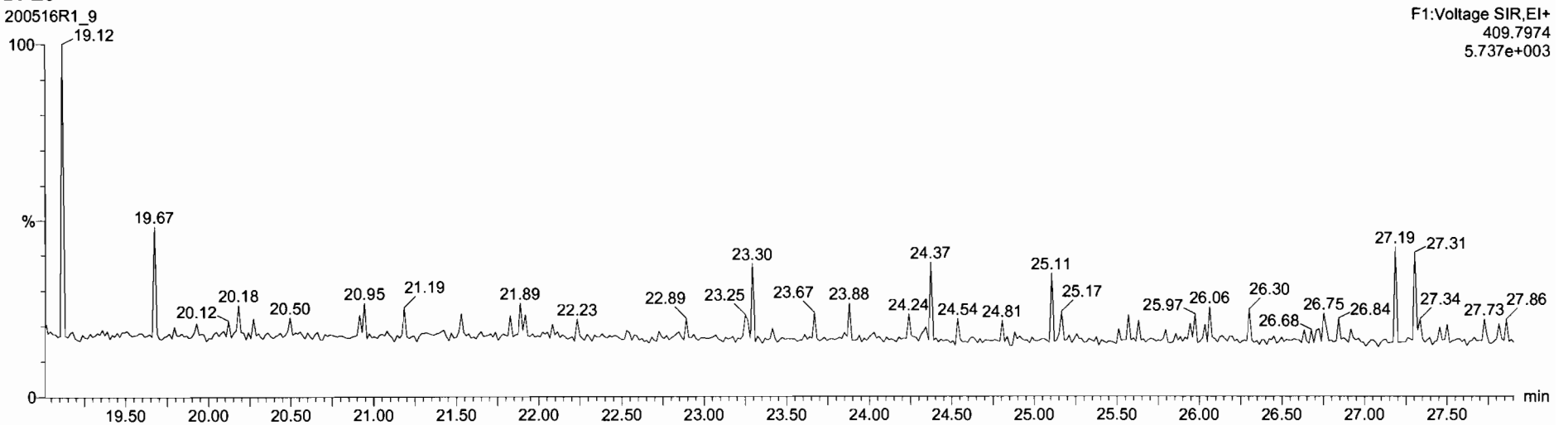


200516R1_9



DPE6

200516R1_9

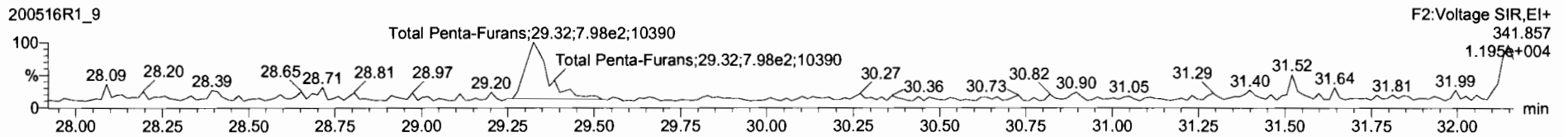
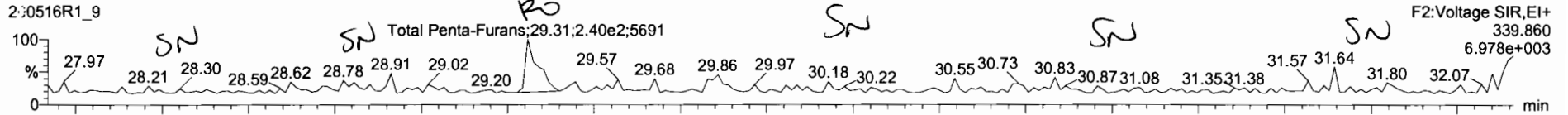


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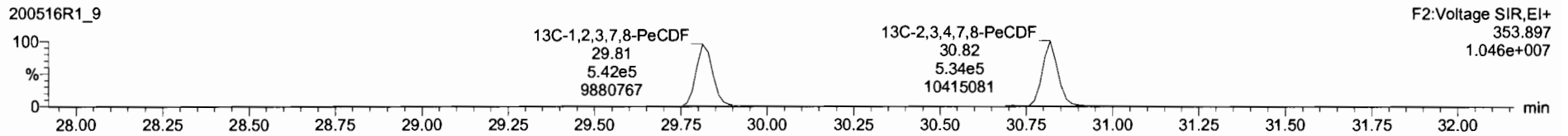
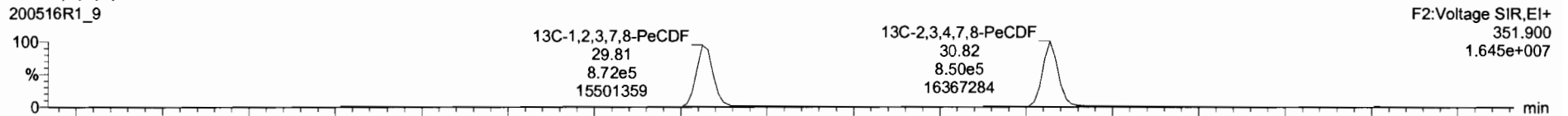
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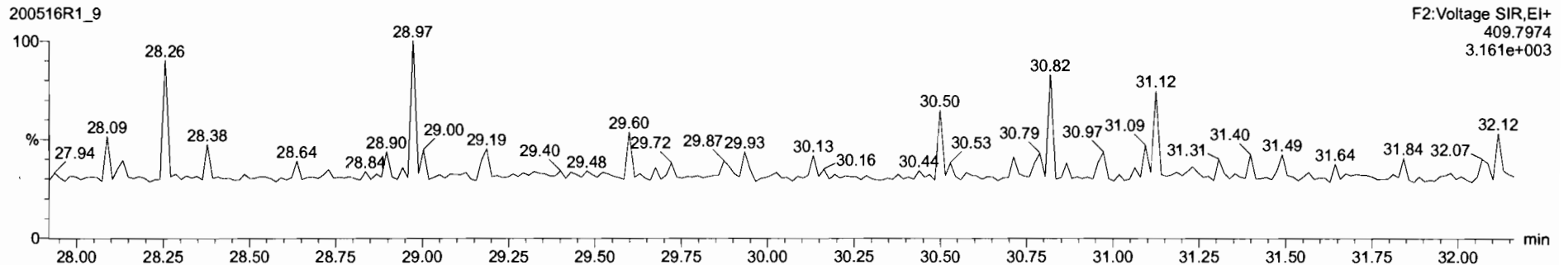
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13C-1,2,3,7,8-PeCDF

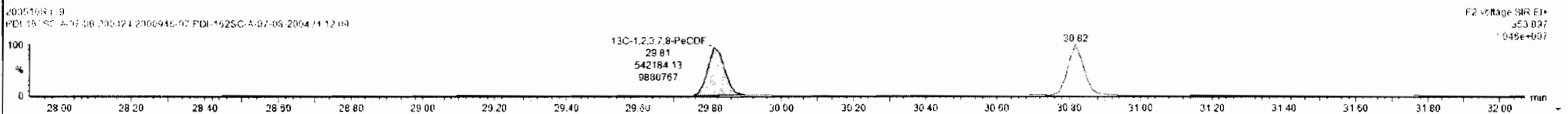
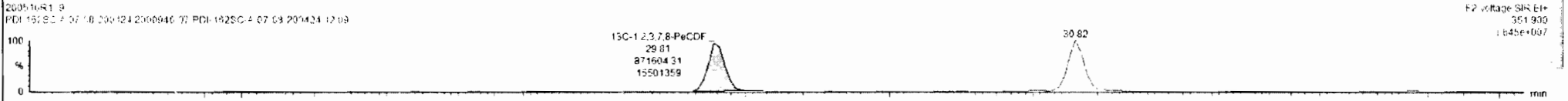
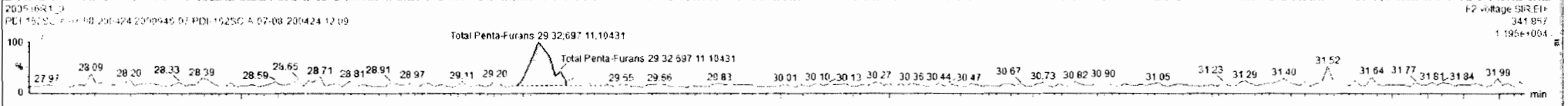
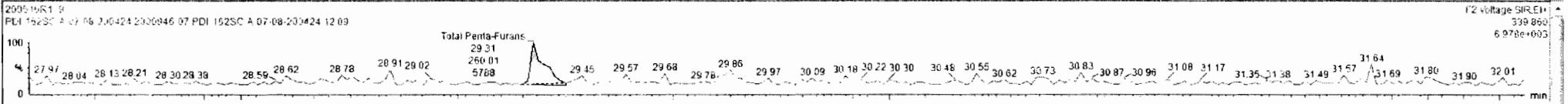


DPE2



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
44	1st Func. Penta-Furans	0.9102	10.105							0.00736	
45	Total Penta-Furans	0.9102	10.105					0.000		0.0210	0.0665
46	Total Hexa-Furans	0.9217	10.105							0.0260	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	Total Penta-Furans	29.21	2.600e2	6.971e2	0.27	YES	0.066486



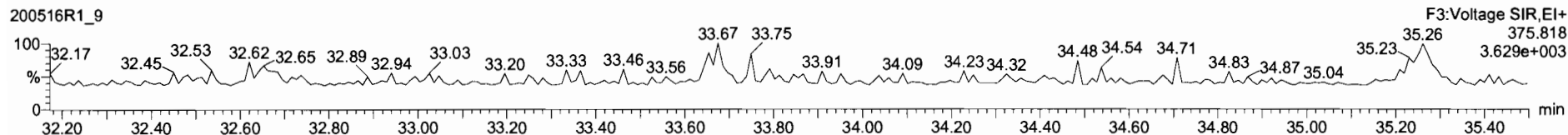
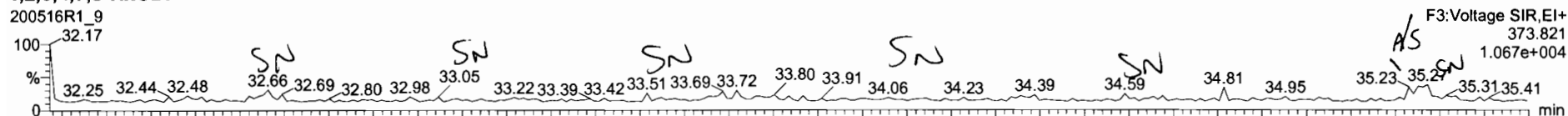
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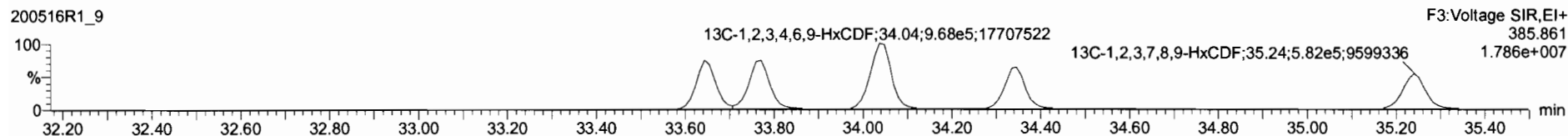
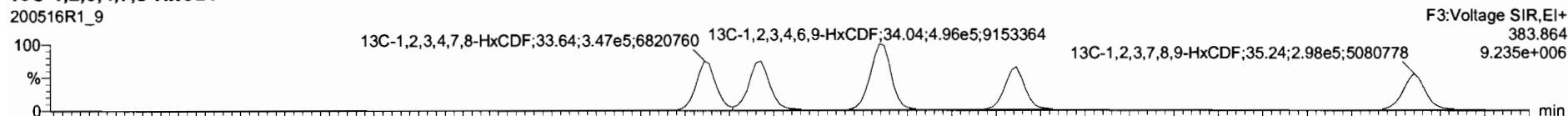
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Name: 200516R1_9, Date: 16-May-2020, Time: 15:21:39, ID: 2000946-07 PDI-162SC-A-07-08-200424 12.09, Description: PDI-162SC-A-07-08-200424

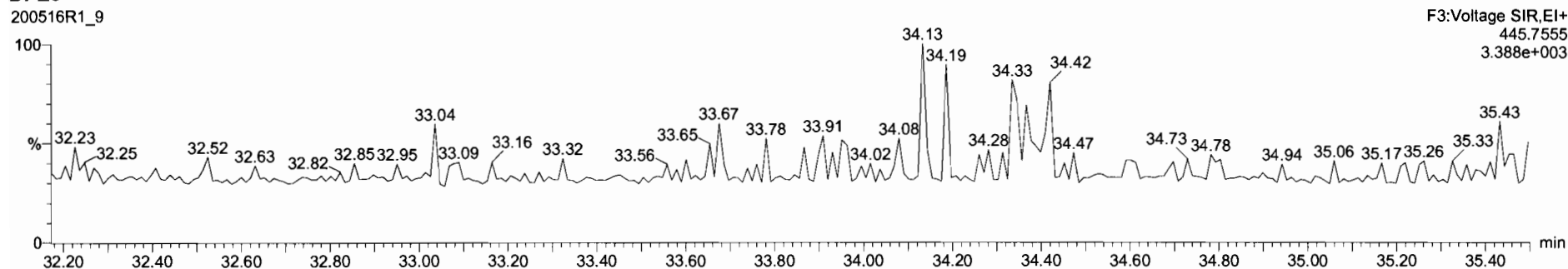
1,2,3,4,7,8-HxCDF



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

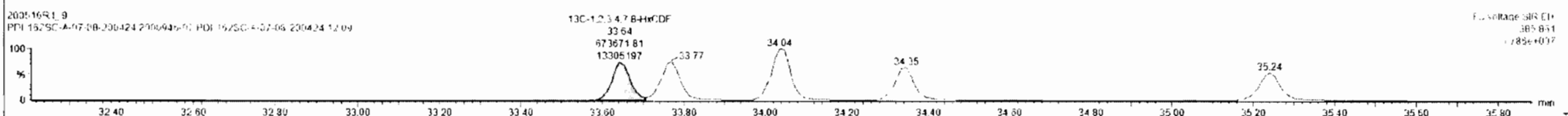
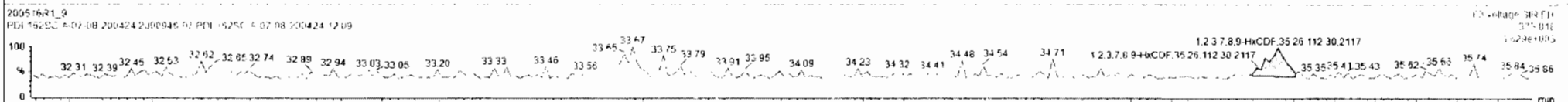
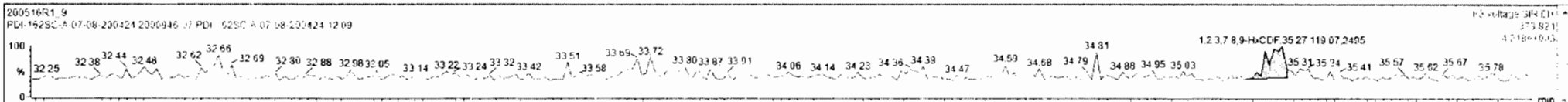


DPE3



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func Penta-Furans				0.9102	10.195				0.00796		
45 Total Penta-Furans				0.9102	10.195			0.000	0.0210	0.0665	
46 Total Hexa-Furans				0.9217	10.405			0.0002	0.0200	0.0602	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,7,8,9-HxCDF	35.27	1.151e2	1.123e2	1.06	NO	0.060214	0.060214



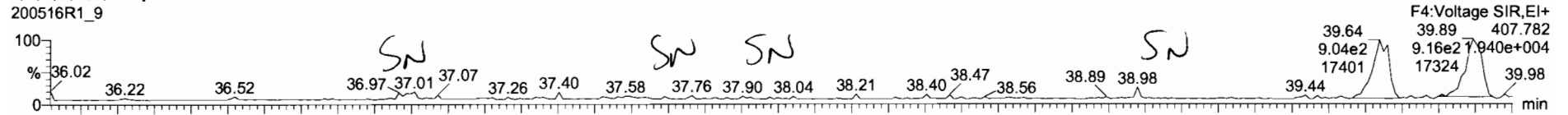
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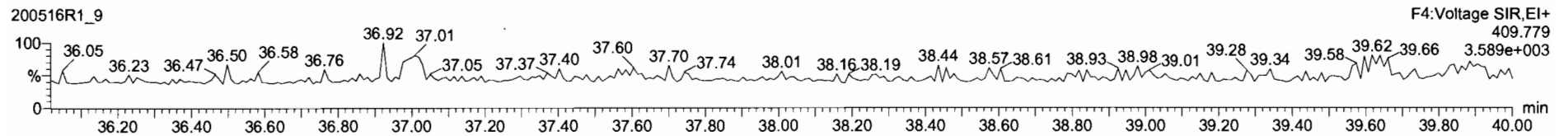
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1,2,3,4,6,7,8-HpCDF

200516R1_9

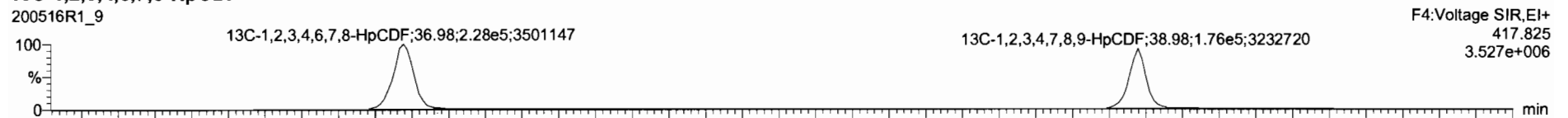


200516R1_9

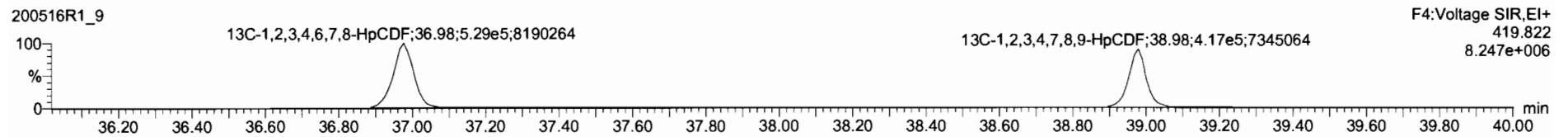


13C-1,2,3,4,6,7,8-HpCDF

200516R1_9

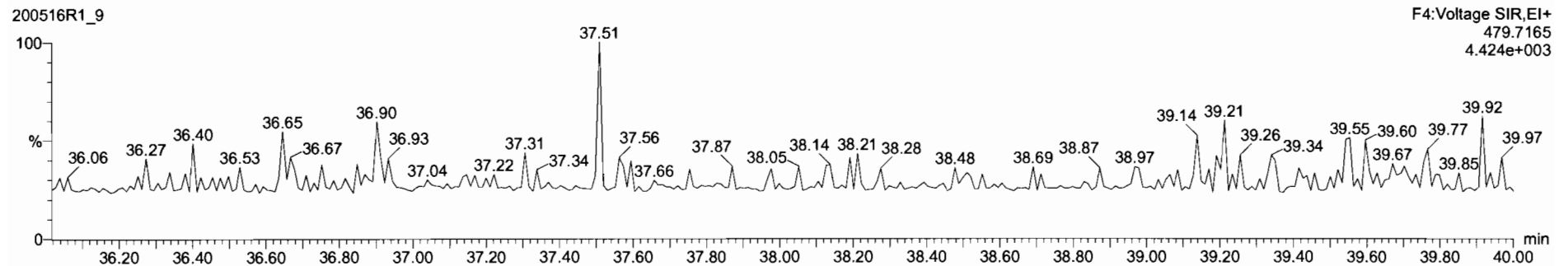


200516R1_9



DPE4

200516R1_9



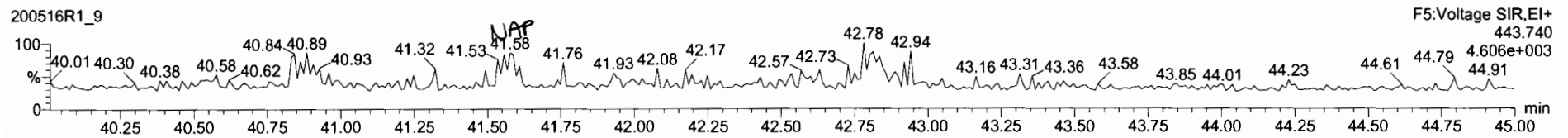
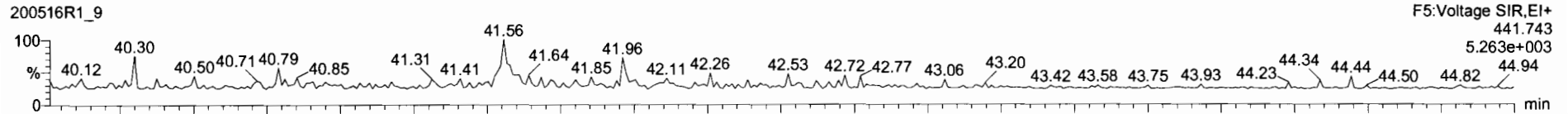
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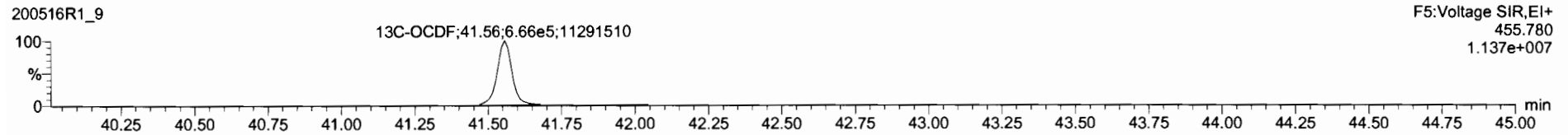
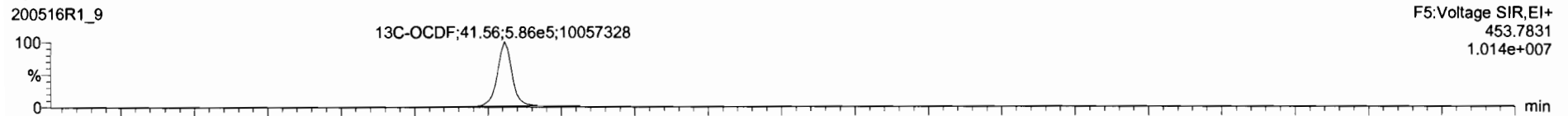
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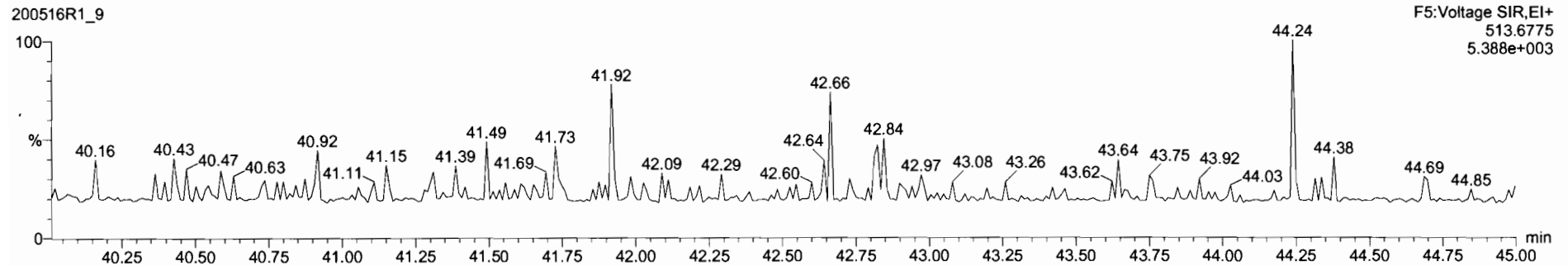
OCDF



13C-OCDF



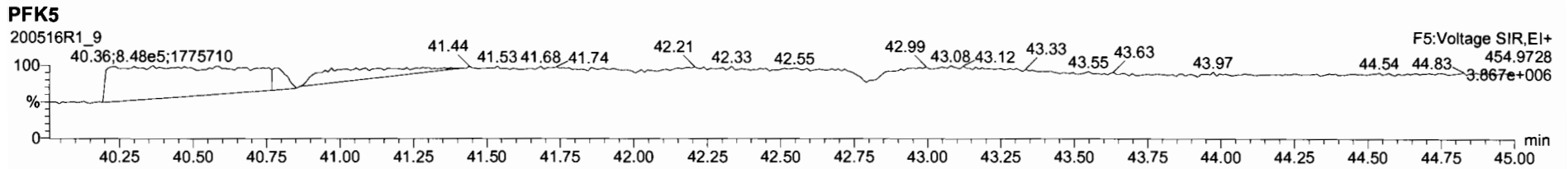
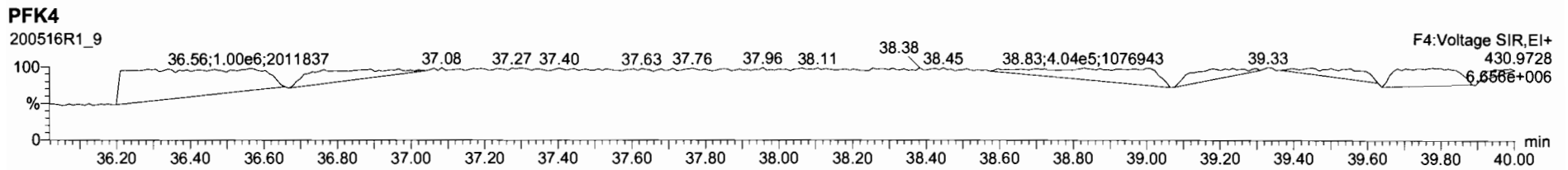
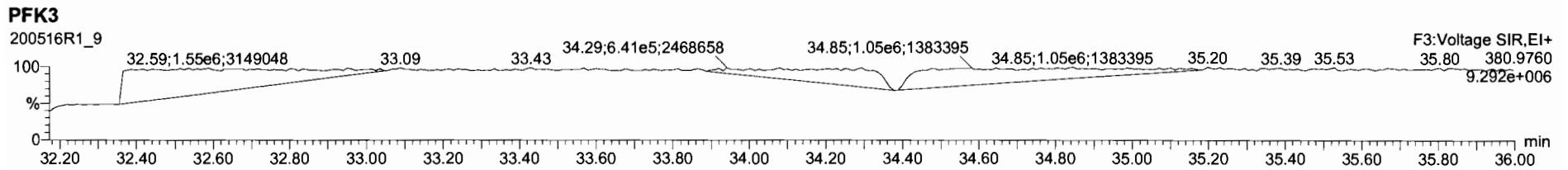
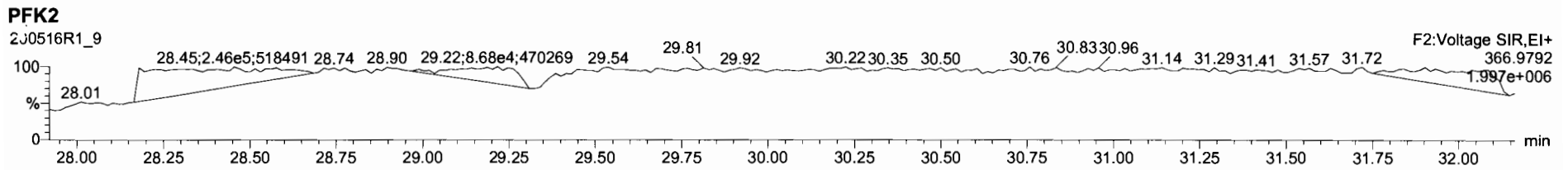
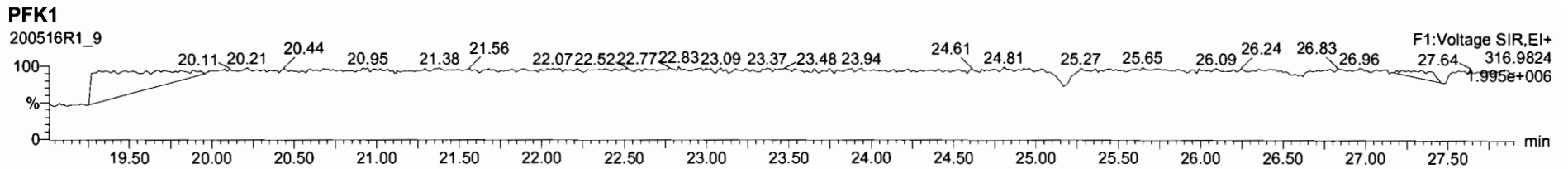
DPE5



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Dataset: U:\VG12.PRO\Results\200516R1\200516R1-10.qld

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GRB 05/18/2020

C9.05/22/2020

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: 200516R1_10, Date: 16-May-2020, Time: 16:07:53, ID: 2000946-08 PDI-162SC-A-08-09-200424 13.13, Description: PDI-162SC-A-08-09-200424

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPO
1	1 2,3,7,8-TCDD			NO	0.947	10.325	26.096		1.001				0.0367	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.325	31.177		1.001				0.0388	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.325	34.537		1.000				0.0465	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.325	34.633		1.000				0.0473	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.325	34.910		1.000				0.0525	
6	6 1,2,3,4,6,7,8-HpCDD	2.33e3	1.08	NO	0.898	10.325	38.426	38.42	1.000	1.000	0.47190		0.0533	0.472
7	7 OCDD	1.74e4	0.84	NO	0.933	10.325	41.386	41.40	1.000	1.000	3.9880		0.0695	3.99
8	8 2,3,7,8-TCDF			NO	0.787	10.325	25.162		1.001				0.0253	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.325	29.864		1.001				0.0282	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.325	30.866		1.001				0.0253	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.325	33.664		1.000				0.0249	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.325	33.791		1.000				0.0221	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.325	34.390		1.001				0.0225	
14	14 1,2,3,7,8,9-HxCDF	2.57e2	1.13	NO	0.864	10.325	35.251	35.26	1.000	1.000	0.042385		0.0177	0.0424
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.325	37.024		1.001				0.0441	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.325	38.989		1.000				0.0464	
17	17 OCDF	3.31e2	0.78	NO	0.802	10.325	41.577	41.59	1.000	1.000	0.075729		0.0489	0.0757
18	18 13C-2,3,7,8-TCDD	2.00e6	0.78	NO	1.16	10.325	26.061	26.07	1.026	1.027	195.32	101	0.141	
19	19 13C-1,2,3,7,8-PeCDD	1.64e6	0.63	NO	0.847	10.325	31.160	31.16	1.227	1.227	219.31	113	0.222	
20	20 13C-1,2,3,4,7,8-HxCDD	1.23e6	1.27	NO	0.750	10.325	34.538	34.53	1.014	1.014	195.62	101	0.211	
21	21 13C-1,2,3,6,7,8-HxCDD	1.45e6	1.26	NO	0.963	10.325	34.651	34.63	1.017	1.017	178.84	92.3	0.165	
22	22 13C-1,2,3,7,8,9-HxCDD	1.38e6	1.25	NO	0.838	10.325	34.920	34.90	1.025	1.025	196.47	101	0.189	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.06e6	1.05	NO	0.641	10.325	38.414	38.41	1.128	1.128	197.25	102	0.215	
24	24 13C-OCDD	1.81e6	0.90	NO	0.586	10.325	41.411	41.39	1.216	1.215	366.84	94.7	0.238	
25	25 13C-2,3,7,8-TCDF	2.49e6	0.77	NO	1.03	10.325	25.119	25.14	0.989	0.990	189.50	97.8	0.243	
26	26 13C-1,2,3,7,8-PeCDF	2.32e6	1.60	NO	0.845	10.325	29.847	29.84	1.176	1.175	216.84	112	0.208	
27	27 13C-2,3,4,7,8-PeCDF	2.21e6	1.56	NO	0.814	10.325	30.840	30.83	1.215	1.214	214.13	111	0.216	
28	28 13C-1,2,3,4,7,8-HxCDF	1.58e6	0.51	NO	1.00	10.325	33.677	33.66	0.989	0.988	187.14	96.6	0.249	
29	29 13C-1,2,3,6,7,8-HxCDF	1.69e6	0.50	NO	1.14	10.325	33.799	33.78	0.992	0.992	176.63	91.2	0.220	
30	30 13C-2,3,4,6,7,8-HxCDF	1.61e6	0.51	NO	1.02	10.325	34.368	34.36	1.009	1.009	186.89	96.5	0.245	
31	31 13C-1,2,3,7,8,9-HxCDF	1.36e6	0.51	NO	0.845	10.325	35.260	35.25	1.035	1.035	191.21	98.7	0.296	

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-10.qld

Last Altered: Monday, May 18, 2020 14:16:52 Pacific Daylight Time

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Name: 200516R1_10, Date: 16-May-2020, Time: 16:07:53, ID: 2000946-08 PDI-162SC-A-08-09-200424 13.13, Description: PDI-162SC-A-08-09-200424

#	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	1.22e6	0.44	NO	0.771	10.325	36.994	36.99	1.086	1.086	187.89	97.0	0.217	
33	33 13C-1,2,3,4,7,8,9-HpCDF	8.66e5	0.45	NO	0.482	10.325	39.007	38.99	1.145	1.145	213.81	110	0.347	
34	34 13C-OCDF	2.11e6	0.87	NO	0.669	10.325	41.581	41.58	1.221	1.221	375.65	97.0	0.210	
35	35 37Cl-2,3,7,8-TCDD	8.21e5			1.10	10.325	26.092	26.09	1.028	1.028	84.551	109	0.0308	
36	36 13C-1,2,3,4-TCDD	1.71e6	0.80	NO	1.00	10.325	25.350	25.39	1.000	1.000	193.71	100	0.164	
37	37 13C-1,2,3,4-TCDF	2.46e6	0.80	NO	1.00	10.325	23.560	23.61	1.000	1.000	193.71	100	0.251	
38	38 13C-1,2,3,4,6,9-HxCDF	1.63e6	0.51	NO	1.00	10.325	34.000	34.06	1.000	1.000	193.71	100	0.250	
39	39 Total Tetra-Dioxins				0.947	10.325	24.620		0.000		0.10322		0.0367	0.103
40	40 Total Penta-Dioxins				0.942	10.325	29.960		0.000				0.0221	
41	41 Total Hexa-Dioxins				0.915	10.325	33.635		0.000		0.57258		0.0512	0.573
42	42 Total Hepta-Dioxins				0.898	10.325	37.640		0.000		1.3331		0.0533	1.33
43	43 Total Tetra-Furans				0.787	10.325	23.610		0.000				0.0111	
44	44 1st Func. Penta-Furans				0.910	10.325	27.090		0.000				0.00481	
45	45 Total Penta-Furans				0.910	10.325	29.275		0.000				0.0142	
46	46 Total Hexa-Furans				0.922	10.325	33.555		0.000		0.066240		0.0133	0.0662
47	47 Total Hepta-Furans				0.871	10.325	37.835		0.000				0.0268	

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Dataset: U:\VG12.PRO\Results\200516R1\200516R1-10.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: 200516R1_10, Date: 16-May-2020, Time: 16:07:53, ID: 2000946-08 PDI-162SC-A-08-09-200424 13.13, Description: PDI-162SC-A-08-09-200424

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.76	5.381e3	6.848e3	4.658e2	5.452e2	0.85	NO	1.011e3	0.10322	0.10322	0.0367

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	33.06	3.242e4	2.139e4	1.428e3	1.151e3	1.24	NO	2.579e3	0.40346	0.40346	0.0512
2	Total Hexa-Dioxins	33.87	8.945e3	8.921e3	6.002e2	4.809e2	1.25	NO	1.081e3	0.16912	0.16912	0.0512

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.38	3.323e4	3.472e4	2.255e3	1.989e3	1.13	NO	4.244e3	0.86121	0.86121	0.0533
2	1,2,3,4,6,7,8-HpCDD	38.42	2.015e4	2.480e4	1.207e3	1.118e3	1.08	NO	2.325e3	0.47190	0.47190	0.0533

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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Dataset: U:\VG12.PRO\Results\200516R1\200516R1-10.qld

Last Altered: Monday, May 18, 2020 14:16:52 Pacific Daylight Time

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Name: 200516R1_10, Date: 16-May-2020, Time: 16:07:53, ID: 2000946-08 PDI-162SC-A-08-09-200424 13.13, Description: PDI-162SC-A-08-09-200424

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	35.26	4.431e3	3.169e3	1.364e2	1.202e2	1.13	NO	2.566e2	0.042385	0.042385	0.0177
2	Total Hexa-Furans	35.27	4.038e3	3.010e3	9.805e1	7.873e1	1.25	NO	1.768e2	0.023855	0.023855	0.0133

Hepta-Furans

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

Dataset: Untitled

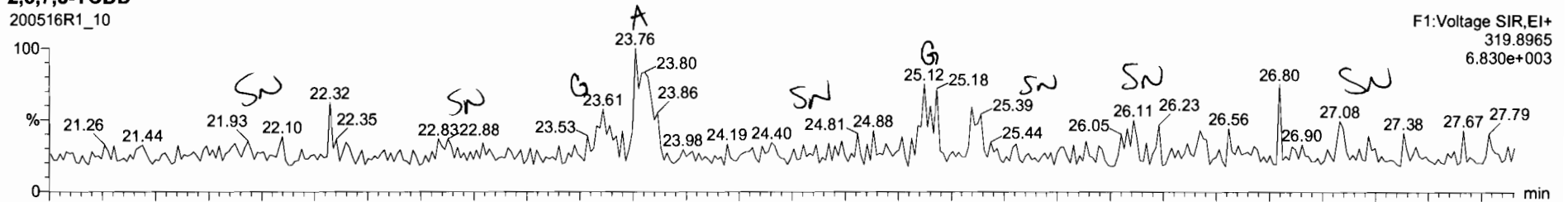
Last Altered: Monday, May 18, 2020 07:36:56 Pacific Daylight Time

Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

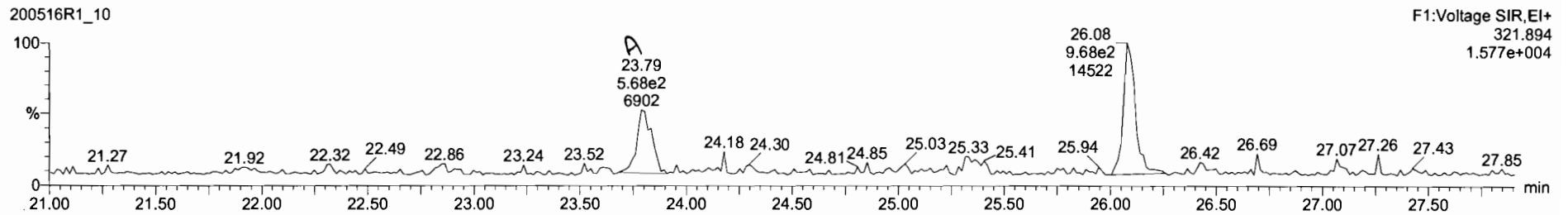
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2,3,7,8-TCDD

200516R1_10

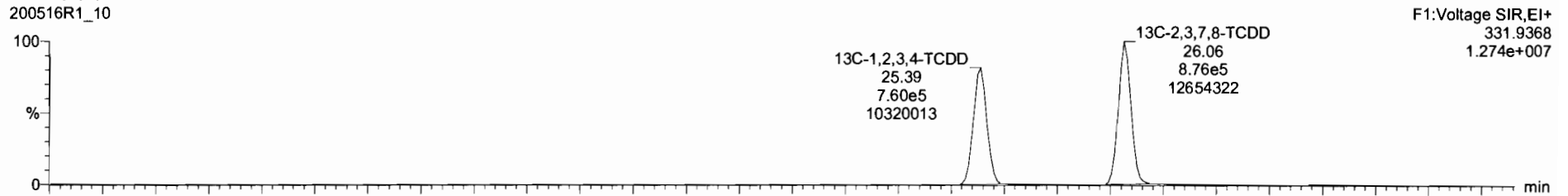


200516R1_10

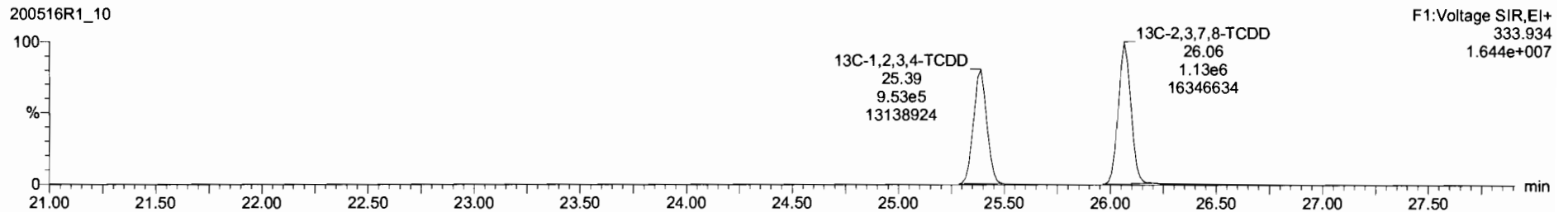


13C-2,3,7,8-TCDD

200516R1_10

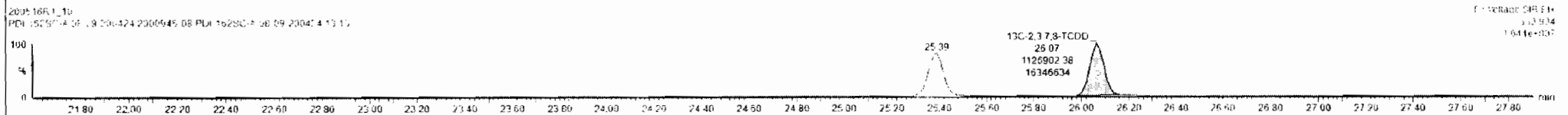
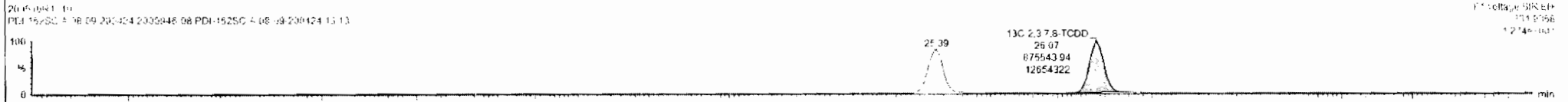
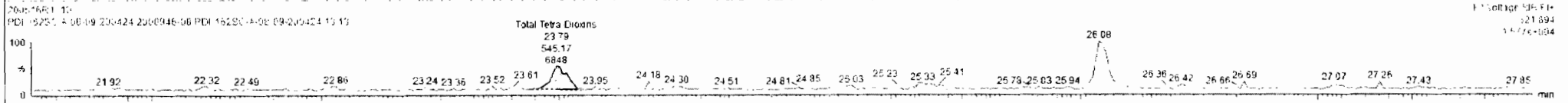
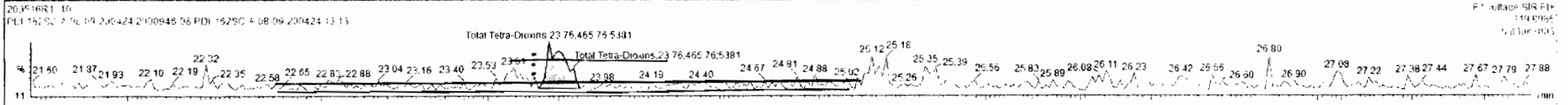


200516R1_10



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.8475	10.325			0.103		0.0367	0.103
40 Total Penta-Dioxins				0.9425	10.325					0.0221	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.76	4.656e2	5.452e2	0.85	NO	0.10322	0.10322



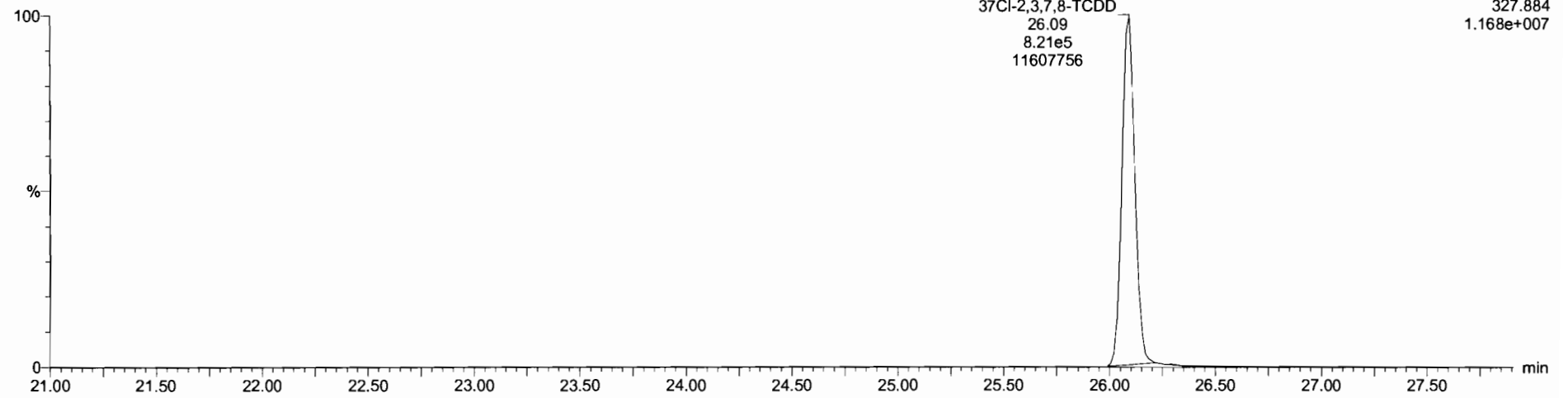
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Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

Name: 200516R1_10, Date: 16-May-2020, Time: 16:07:53, ID: 2000946-08 PDI-162SC-A-08-09-200424 13.13, Description: PDI-162SC-A-08-09-200424

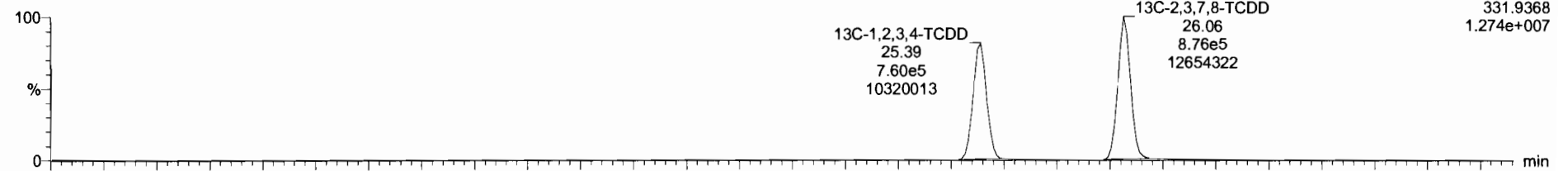
37Cl-2,3,7,8-TCDD

200516R1_10

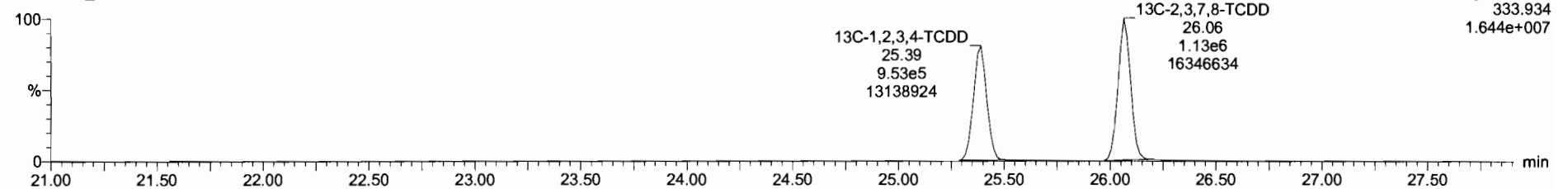


13C-1,2,3,4-TCDD

200516R1_10



200516R1_10



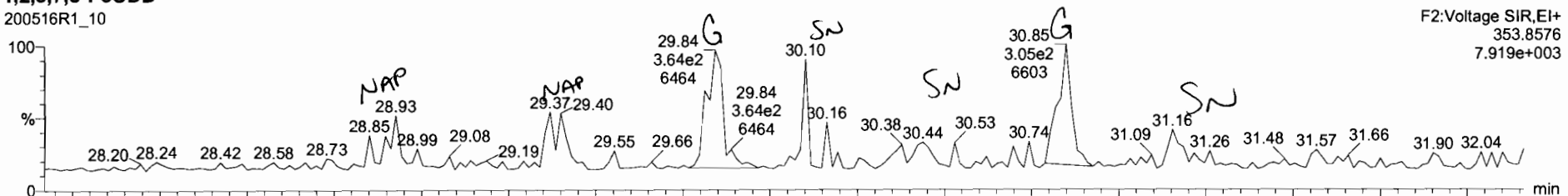
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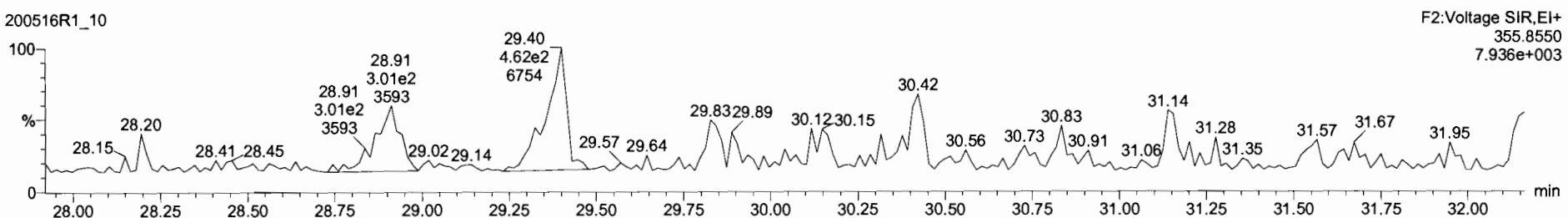
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1,2,3,7,8-PeCDD

200516R1_10

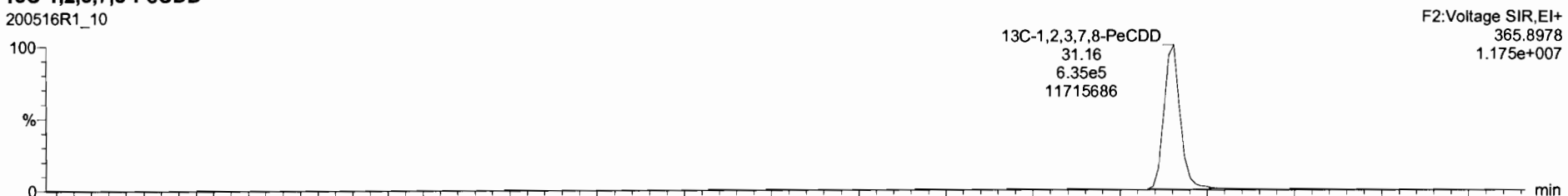


200516R1_10

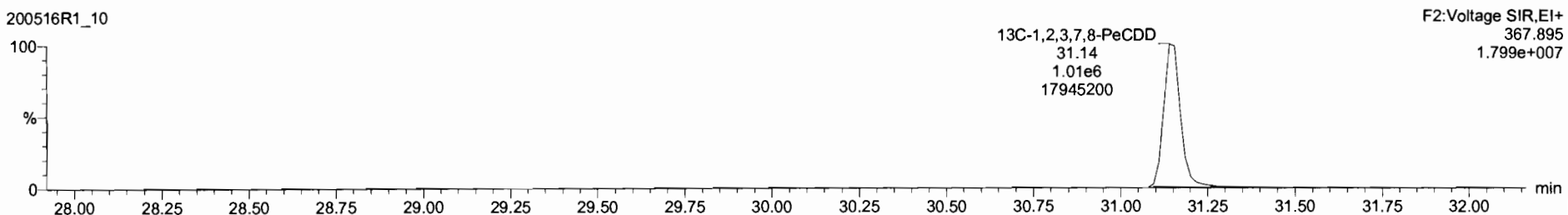


13C-1,2,3,7,8-PeCDD

200516R1_10



200516R1_10



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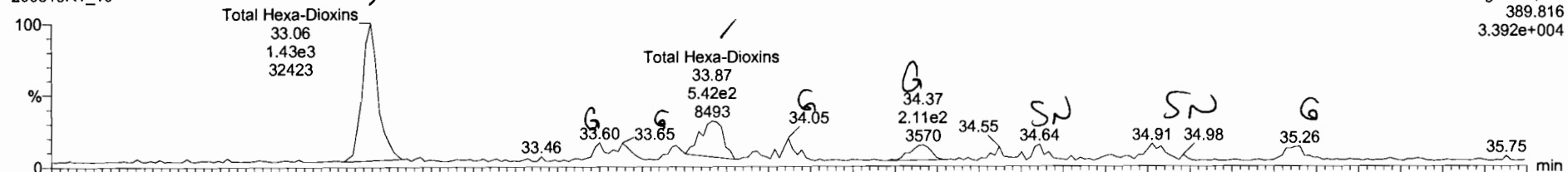
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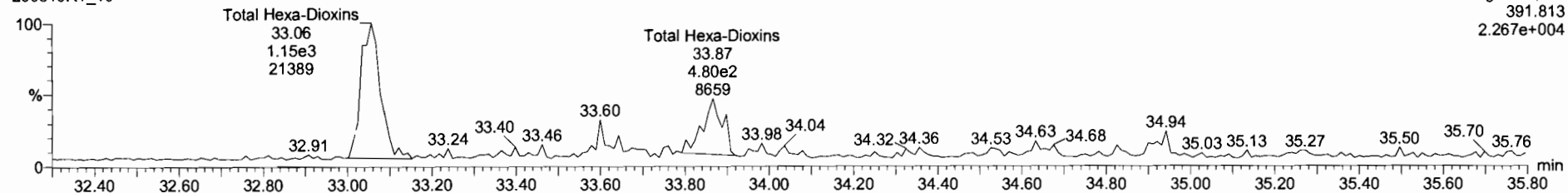
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1,2,3,4,7,8-HxCDD

200516R1_10

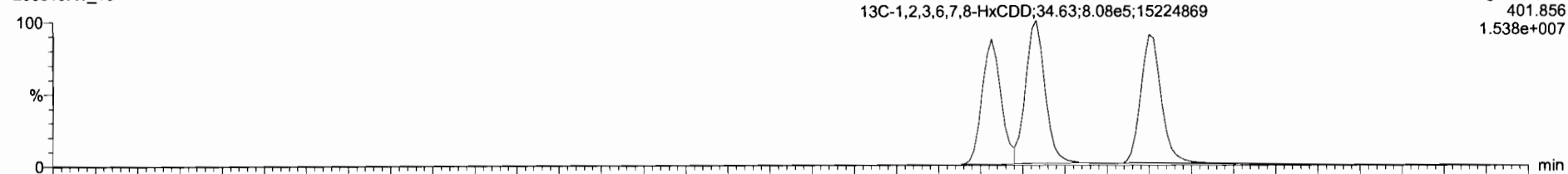


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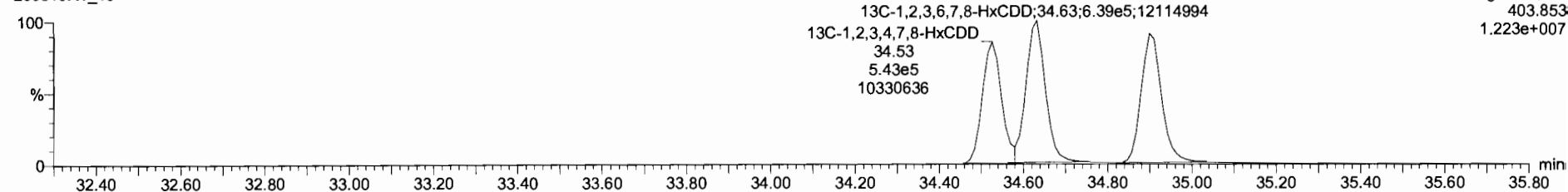


13C-1,2,3,4,7,8-HxCDD

200516R1_10

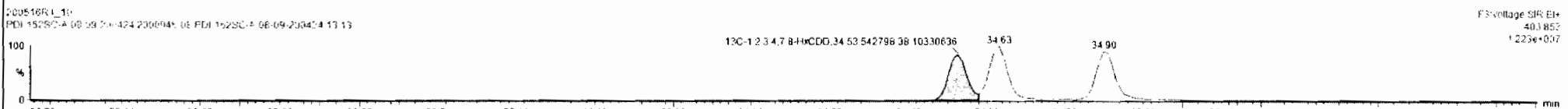
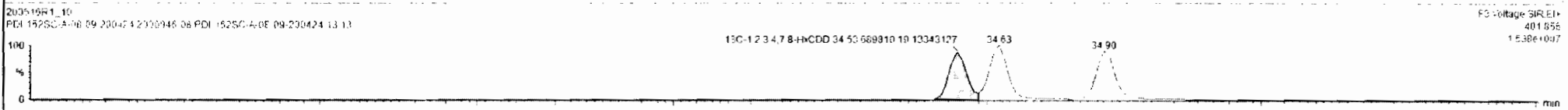
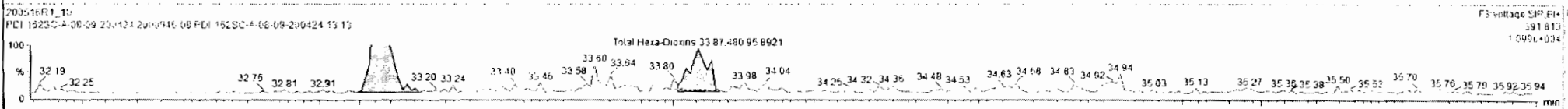
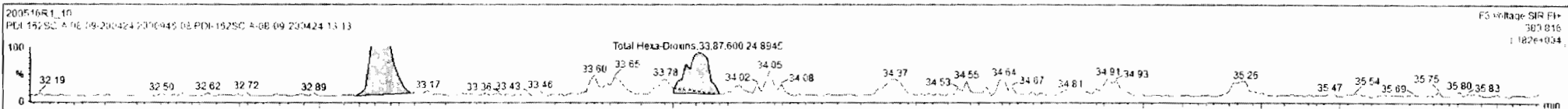


200516R1_10



Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.325			0.102		0.0367	0.102
40 Total Penta-Dioxins				0.9425	10.325					0.0221	

Name	RT	n1 Resp	n2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	33.87	6.002e2	4.609e2	1.25	NO	0.16912	0.16912
2 Total Hepta-Dioxins	33.06	1.426e3	1.151e3	1.24	NO	0.40346	0.40346



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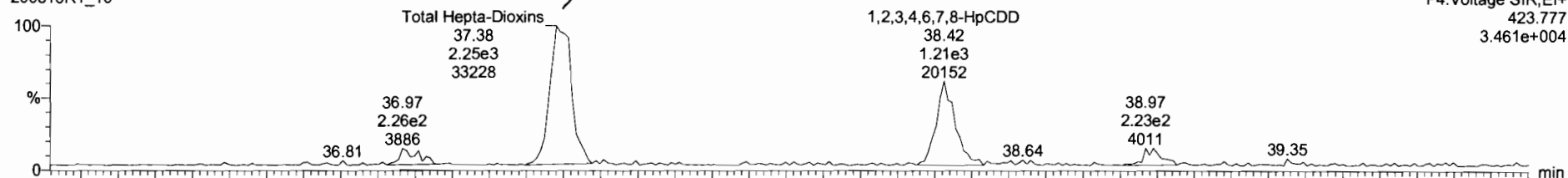
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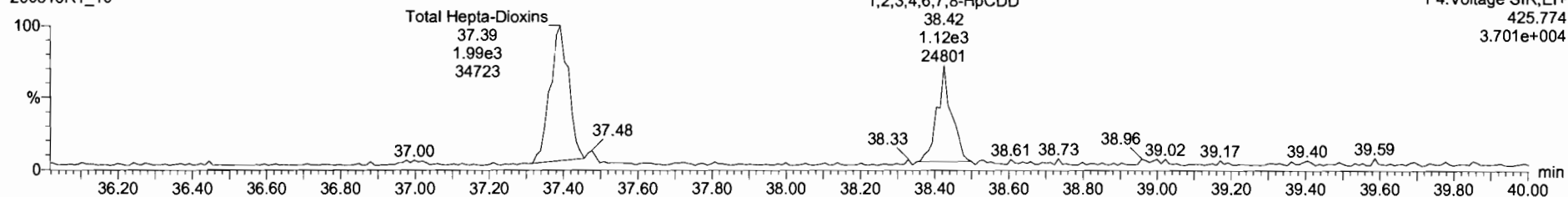
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1,2,3,4,6,7,8-HpCDD

200516R1_10

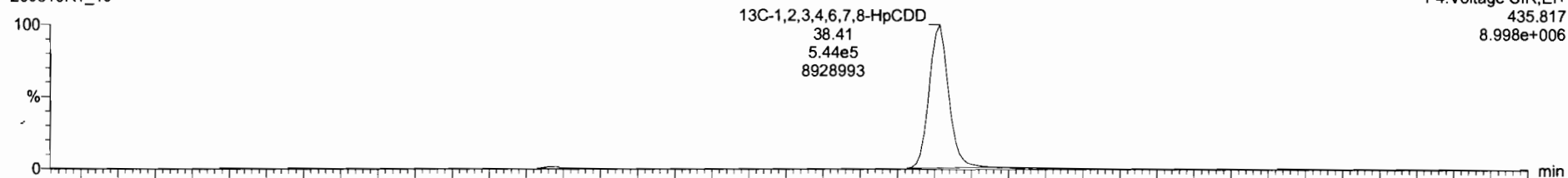


200516R1_10

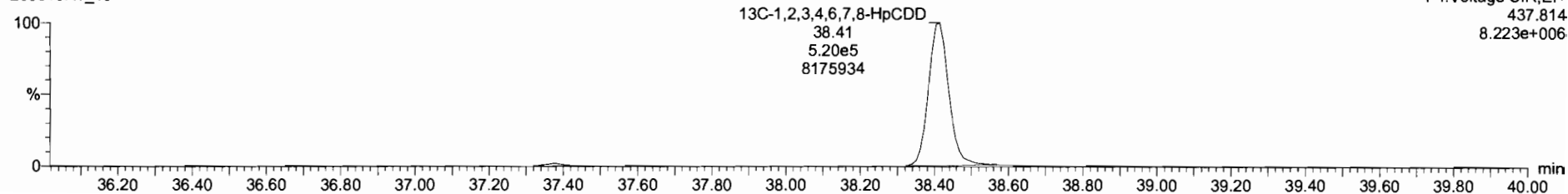


13C-1,2,3,4,6,7,8-HpCDD

200516R1_10



200516R1_10

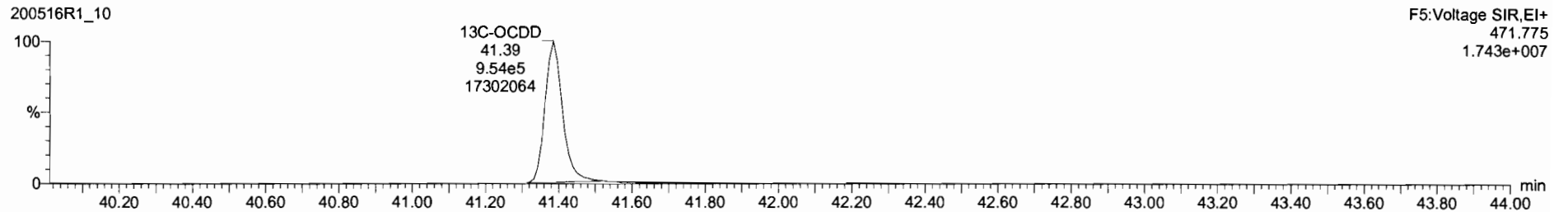
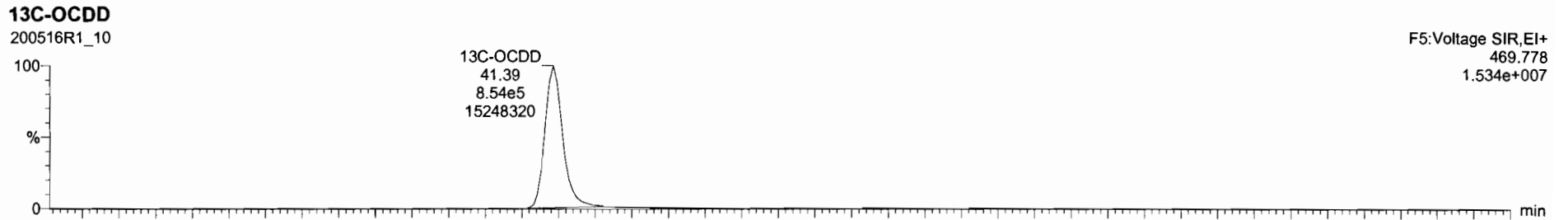
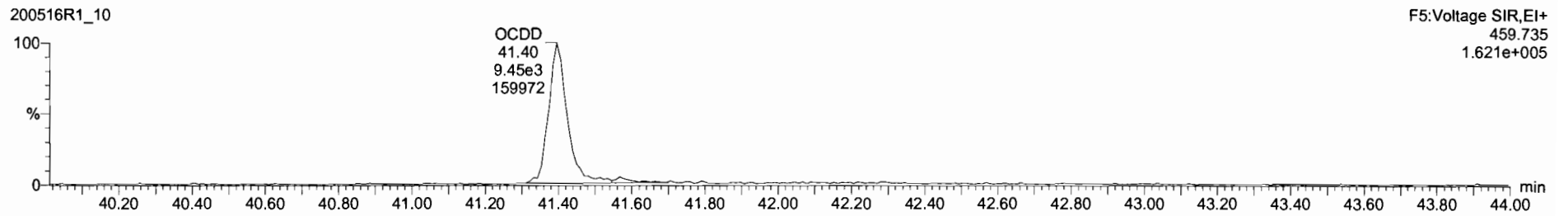
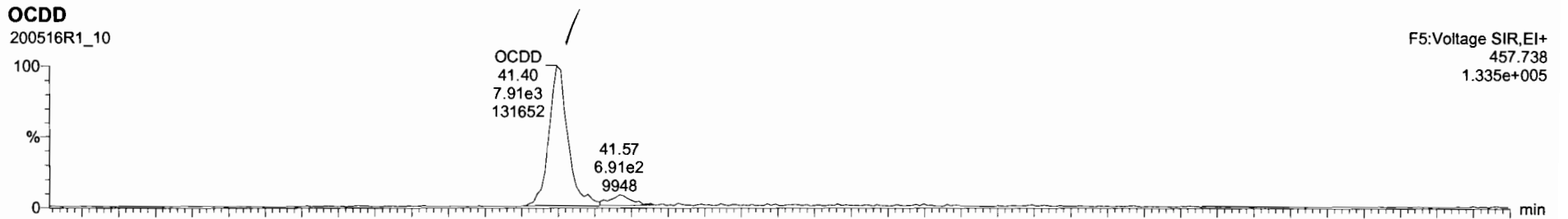


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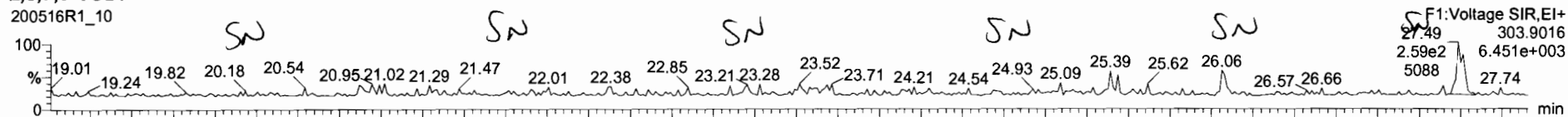
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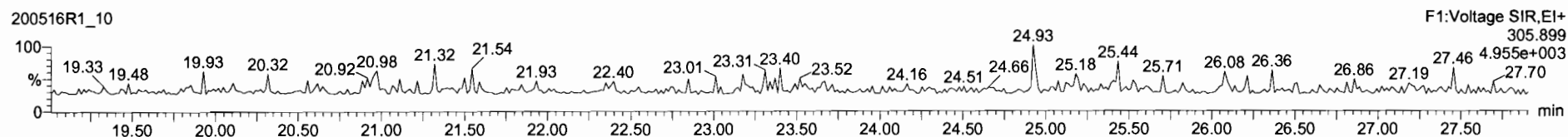
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2,3,7,8-TCDF

200516R1_10

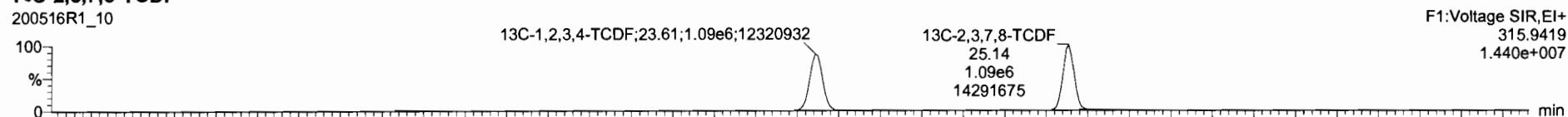


200516R1_10

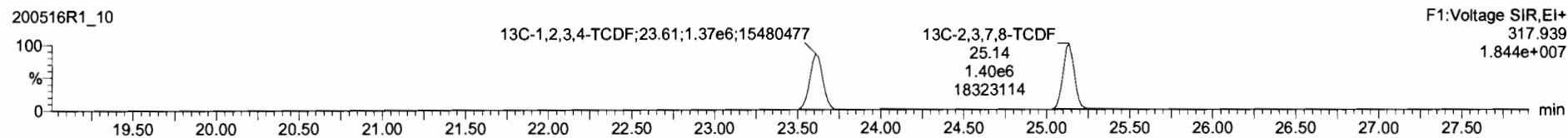


13C-2,3,7,8-TCDF

200516R1_10

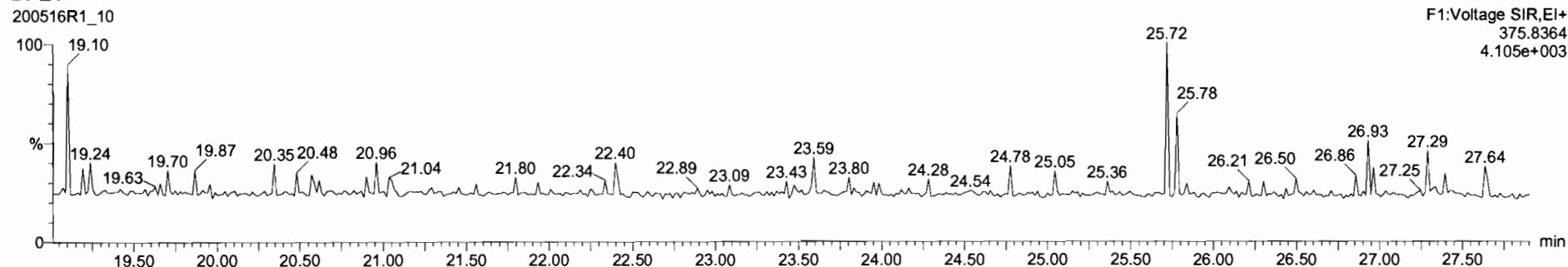


200516R1_10



DPE1

200516R1_10



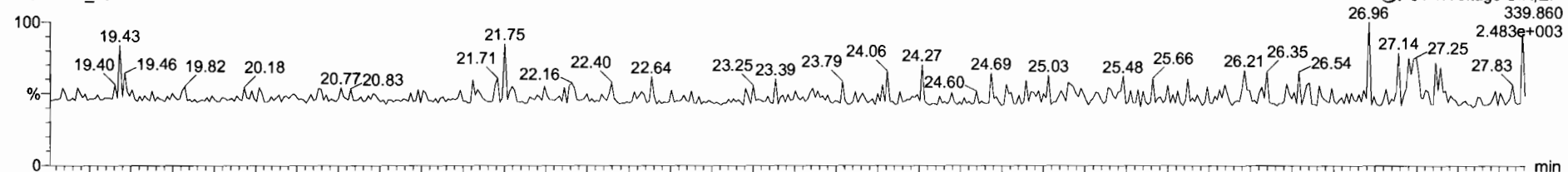
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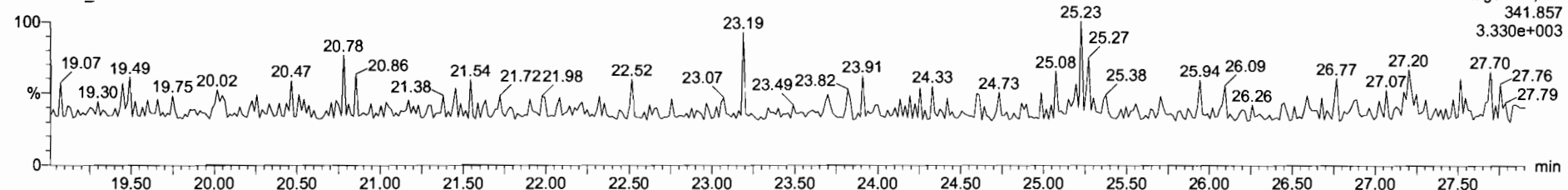
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1st Func. Penta-Furans

200516R1_10

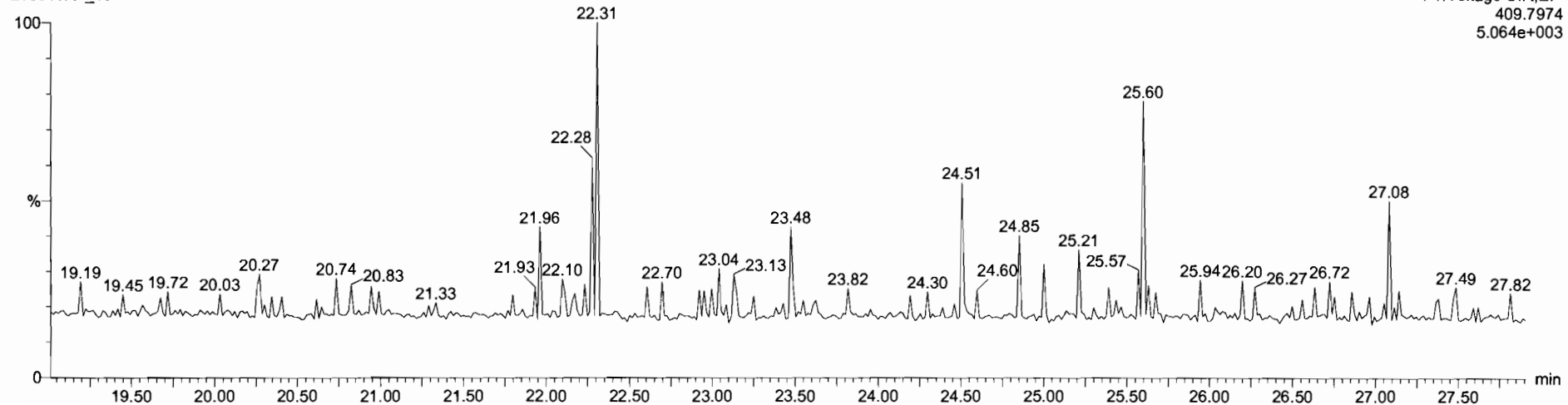


200516R1_10



DPE6

200516R1_10

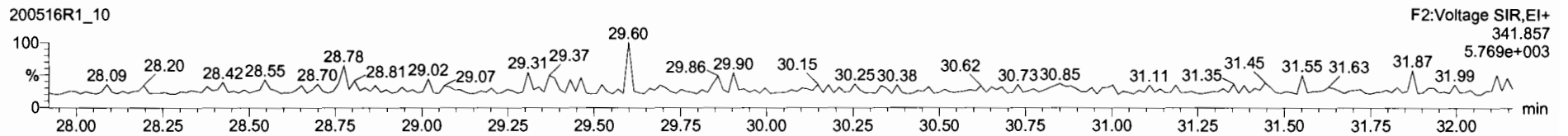
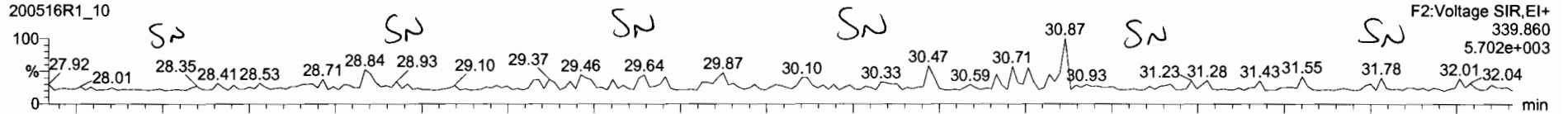


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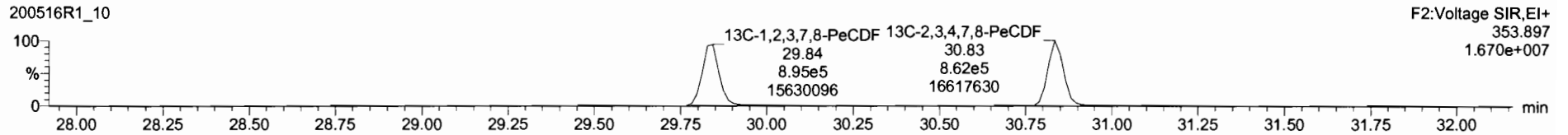
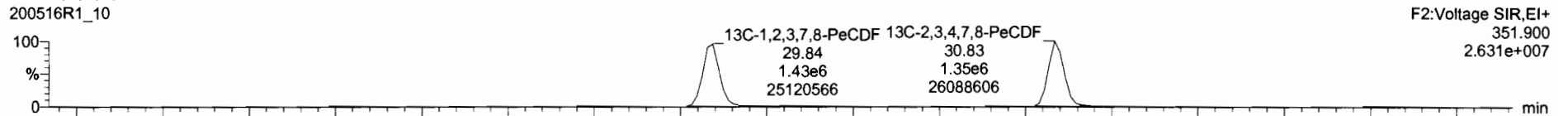
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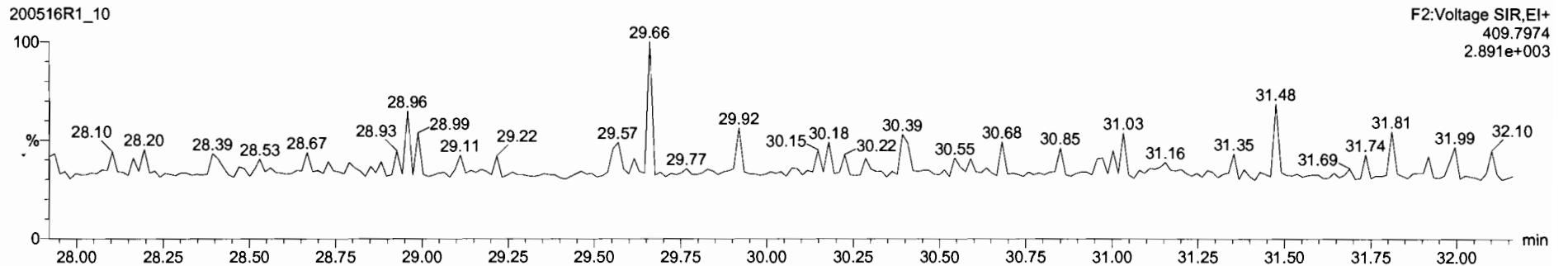
1,2,3,7,8-PeCDF



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



DPE2

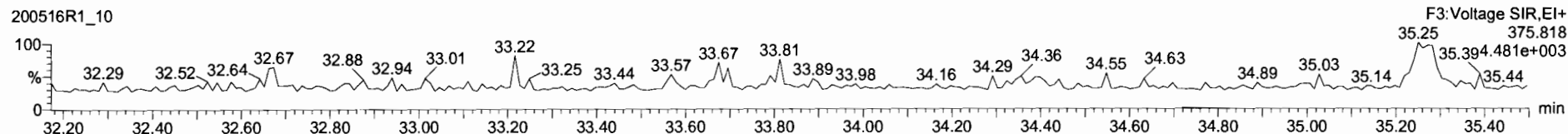
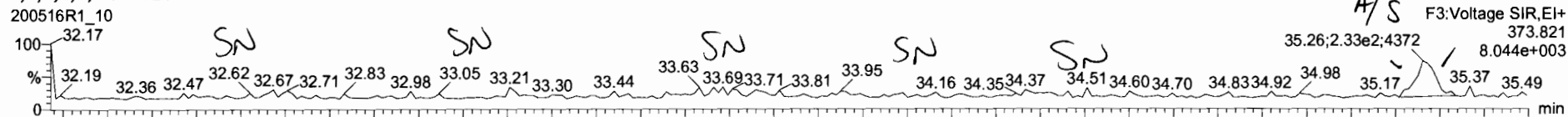


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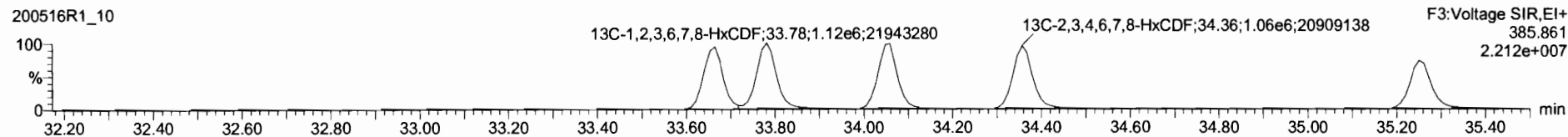
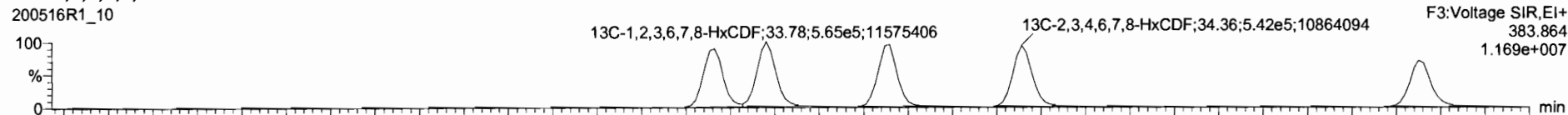
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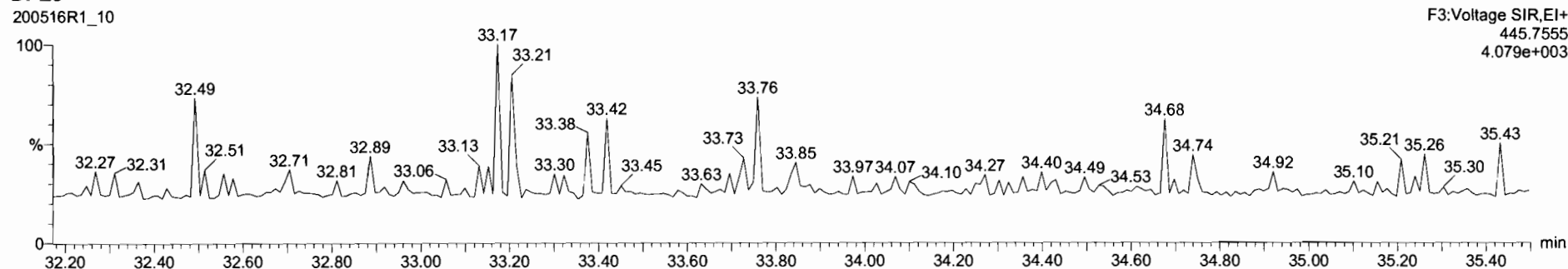
1,2,3,4,7,8-HxCDF



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

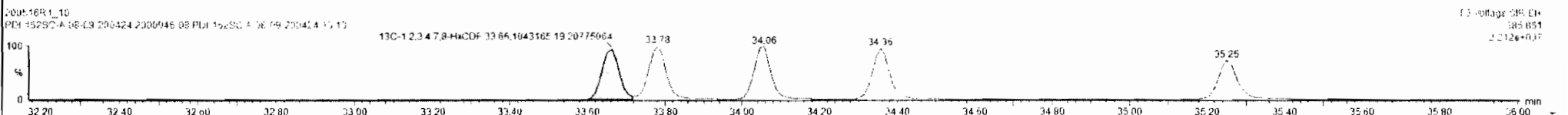
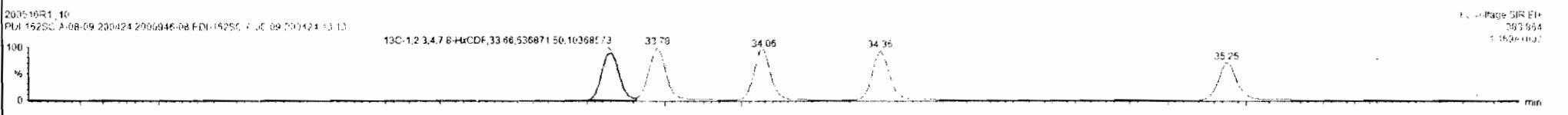
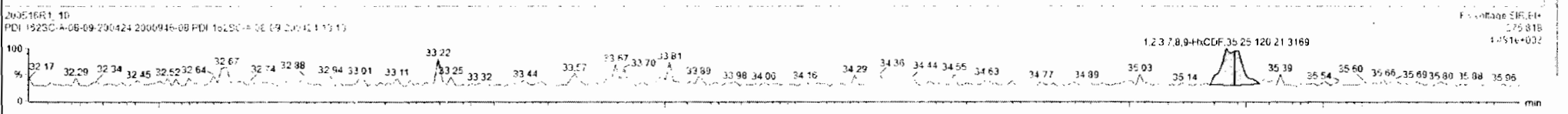
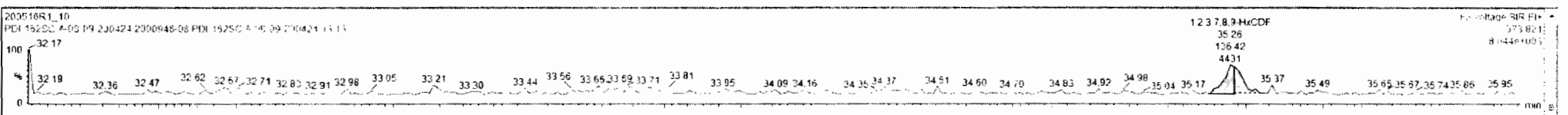


DPE3



Name	RRsp	RA	nly	RRF	wHCl	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.325					0.0142	
46 Total Hexa-Furans				0.9217	10.325			0.0862		0.0133	0.0662

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,7,8,9-HxCDF	35.26	1.364e2	1.202e2	1.13	NO	0.042385	0.042385
2 Total Hexa-Furans	35.27	9.805e1	7.873e1	1.25	NO	0.023855	0.023855



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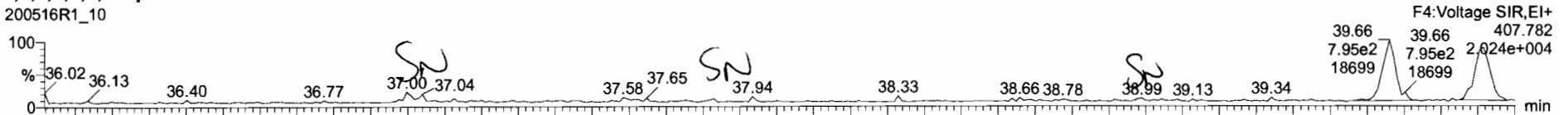
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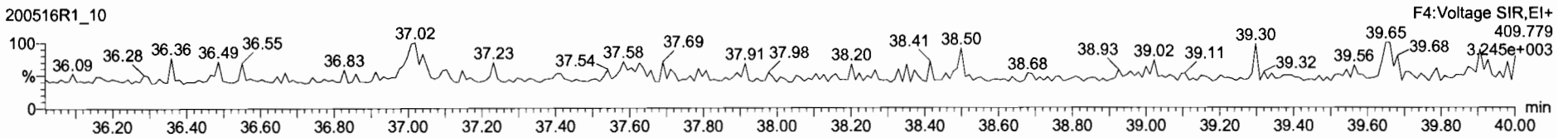
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1,2,3,4,6,7,8-HpCDF

200516R1_10

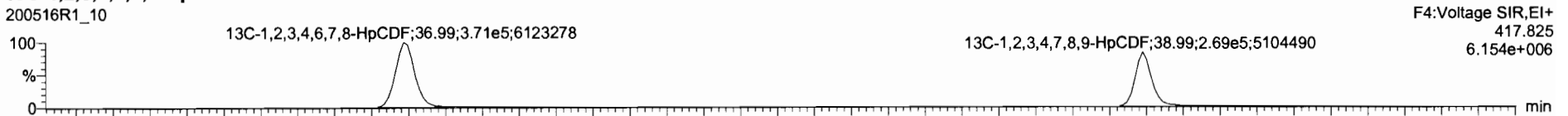


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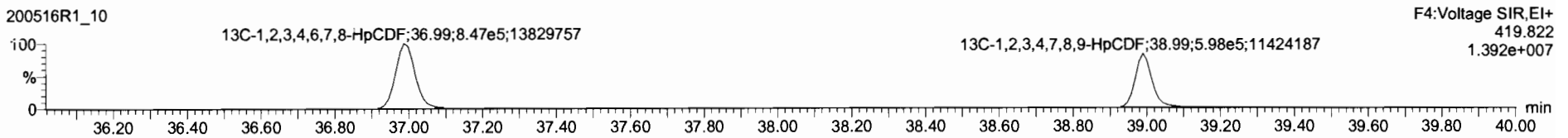


13C-1,2,3,4,6,7,8-HpCDF

200516R1_10

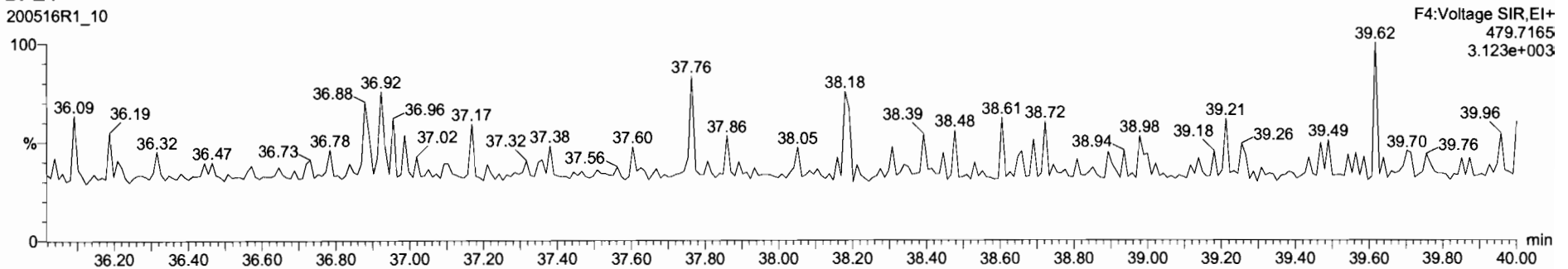


200516R1_10



DPE4

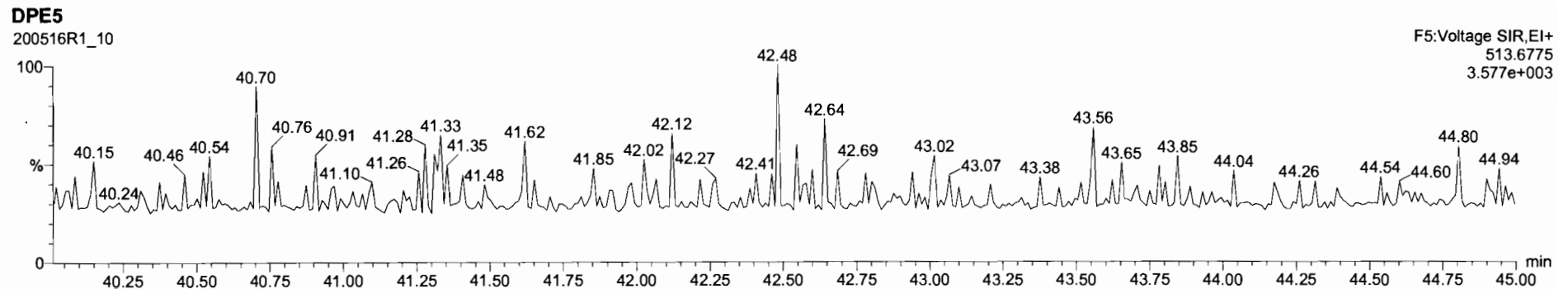
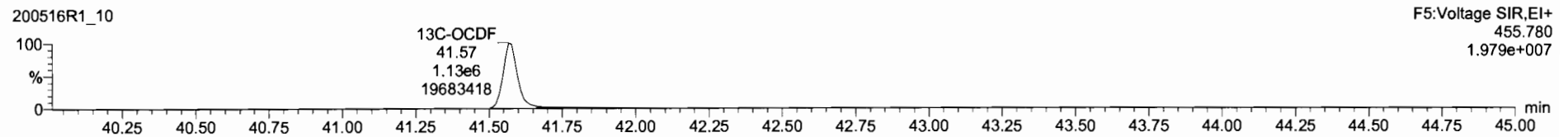
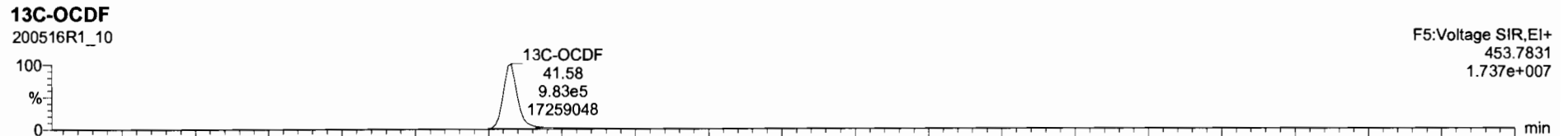
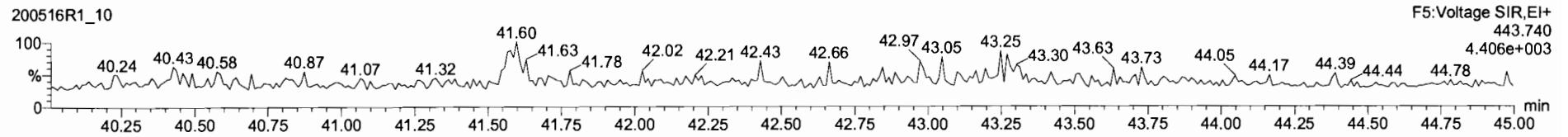
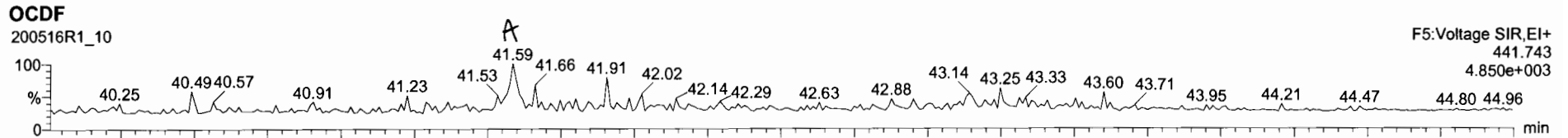
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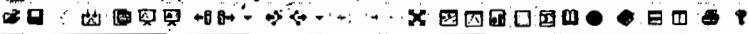


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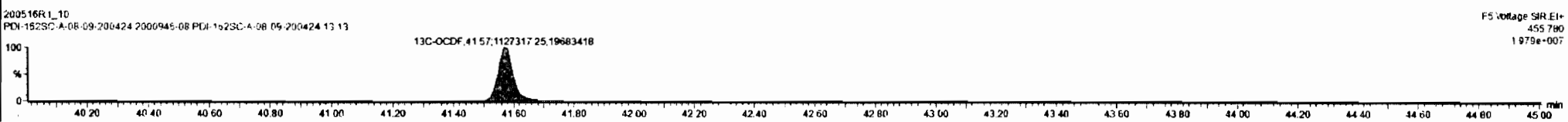
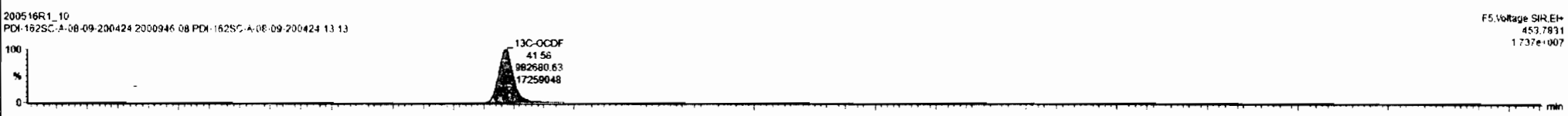
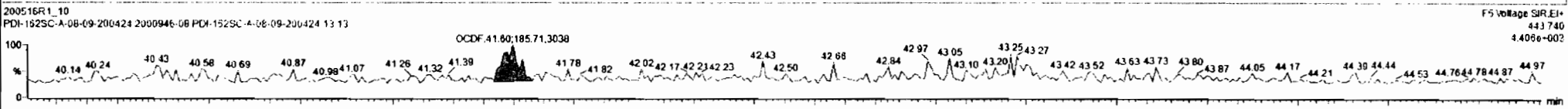
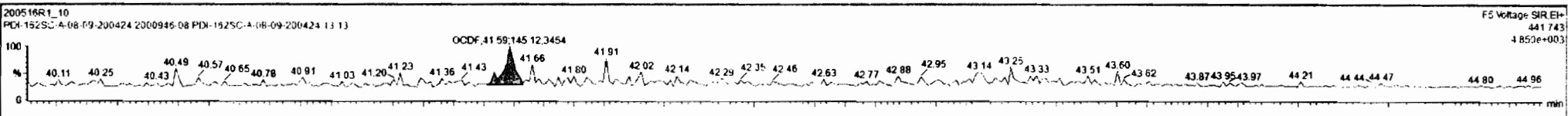
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Name	Resp	RA	Qty	GRF	Weight	RT	SPC	Comp	Yield	OL	EMPC
13C-2,3,7,8-TCDD	2.90e6	0.78	NO	1.1585	10.325	28.07	1.027	195	101		0.141

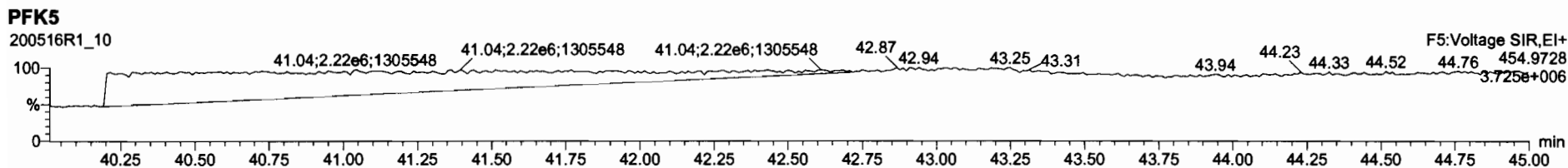
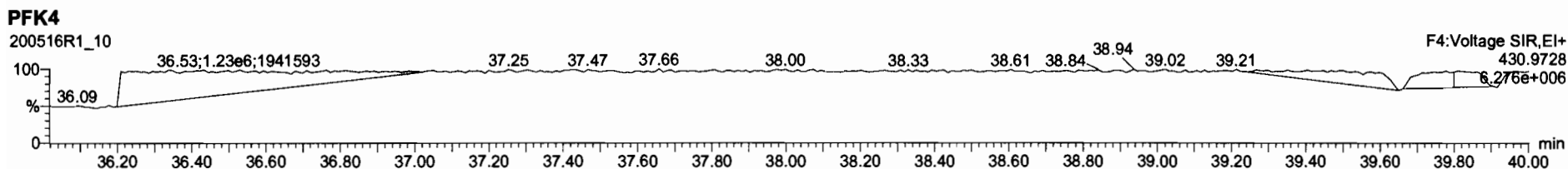
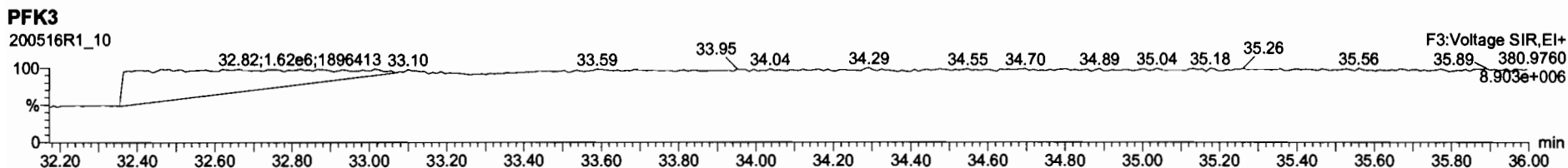
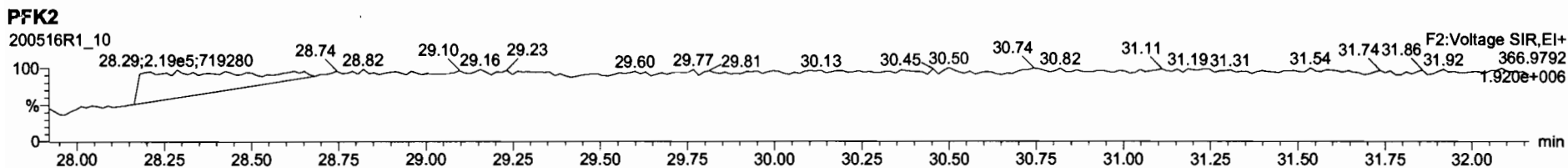
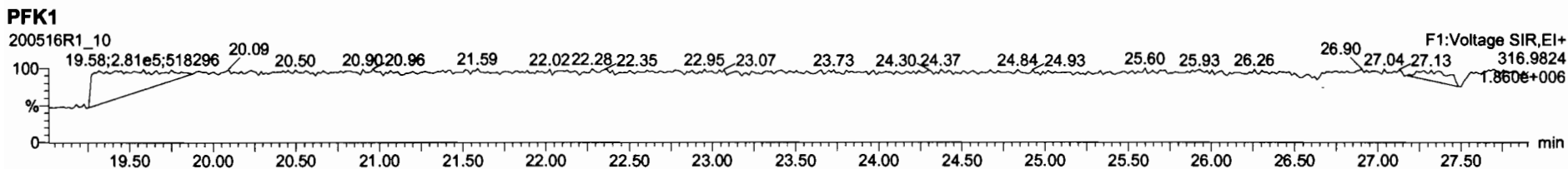
Name	RT	wt Resp	nc Resp	RA	Qty	EMPC	Calc.



Dataset: Untitled

Last Altered: Monday, May 18, 2020 07:36:56 Pacific Daylight Time
Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

Name: 200516R1_10, Date: 16-May-2020, Time: 16:07:53, ID: 2000946-08 PDI-162SC-A-08-09-200424 13.13, Description: PDI-162SC-A-08-09-200424



CONFIRMATION

Dataset: U:\VG7.PRO\Results\200520D1\200520D1_7.qld

Last Altered: Wednesday, May 20, 2020 16:19:20 Pacific Daylight Time

Printed: Wednesday, May 20, 2020 16:21:01 Pacific Daylight Time

DB 5/20/20 C705/22/2020

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_7, Date: 20-May-2020, Time: 15:43:24, ID: 2000946-01RE1 PDI-162SC-A-00-01-200424 19.45, Description: PDI-162SC-A-00-01-200424

#	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	4.85e3	0.73	NO	0.982	10.114	17.631	17.62	1.000	1.001	78.719		3.68	78.7
2	2 13C-2,3,7,8-TCDF	1.24e4	0.81	NO	1.08	10.114	17.654	17.61	1.133	1.137	126.26	63.8	5.15	
3	3 13C-1,2,3,4-TCDF	1.79e4	0.80	NO	1.00	10.114	15.660	15.49	1.000	1.000	197.75	100	5.58	

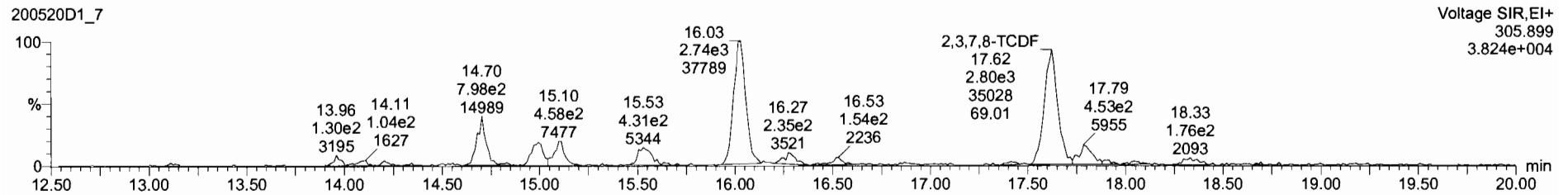
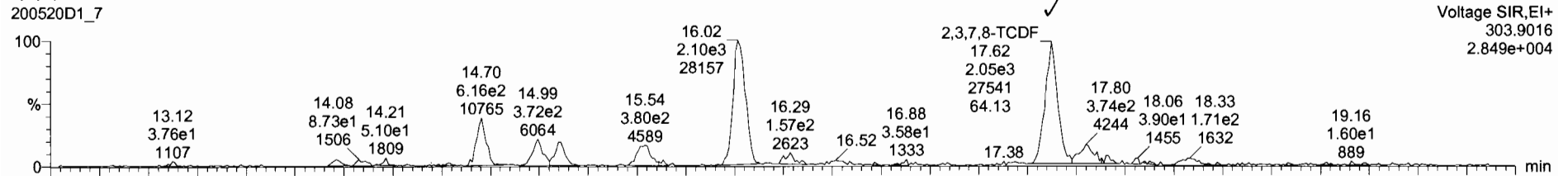
Dataset: U:\VG7.PRO\Results\200520D1\200520D1_7.qld

Last Altered: Wednesday, May 20, 2020 16:19:20 Pacific Daylight Time
Printed: Wednesday, May 20, 2020 16:20:39 Pacific Daylight Time

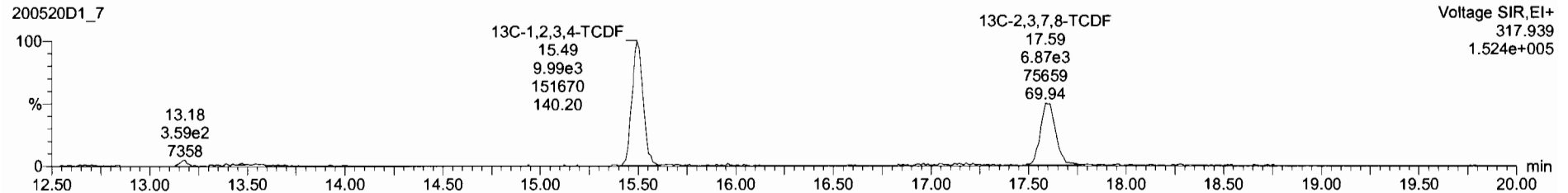
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\ldb-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200520D1_7, Date: 20-May-2020, Time: 15:43:24, ID: 2000946-01RE1 PDI-162SC-A-00-01-200424 19.45, Description: PDI-162SC-A-00-01-200424

2,3,7,8-TCDF



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



Dataset: U:\VG7.PRO\Results\200520D1\200520D1_7.qld

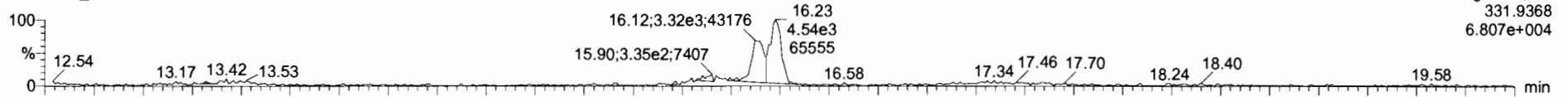
Last Altered: Wednesday, May 20, 2020 16:19:20 Pacific Daylight Time

Printed: Wednesday, May 20, 2020 16:20:39 Pacific Daylight Time

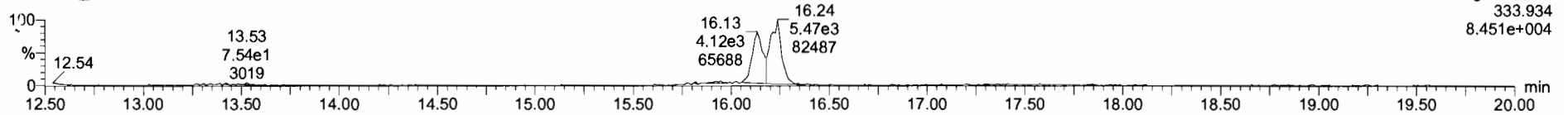
Name: 200520D1_7, Date: 20-May-2020, Time: 15:43:24, ID: 2000946-01RE1 PDI-162SC-A-00-01-200424 19.45, Description: PDI-162SC-A-00-01-200424

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

200520D1_7

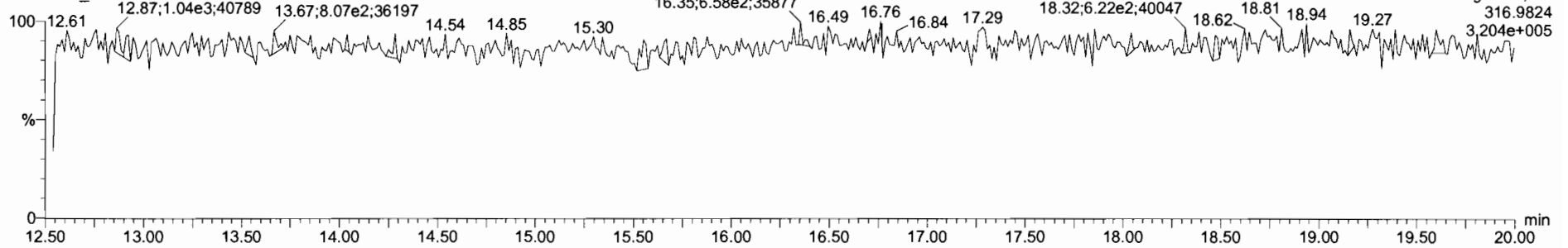


200520D1_7



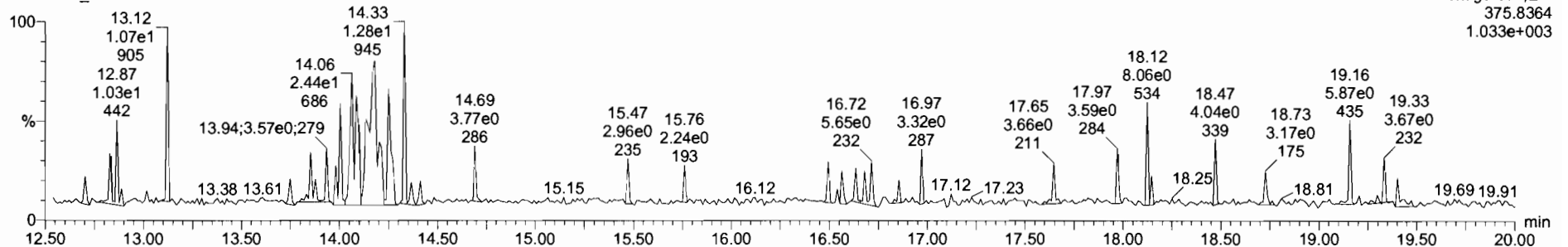
PFK1

200520D1_7



DPE1

200520D1_7



Dataset: U:\VG7.PRO\Results\200520D1\200520D1_8.qld

Last Altered: Wednesday, May 20, 2020 17:03:11 Pacific Daylight Time

Printed: Wednesday, May 20, 2020 17:05:09 Pacific Daylight Time

DB 5/20/20 C105/27/2020

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_8, Date: 20-May-2020, Time: 16:15:08, ID: 2000946-02RE1 PDI-162SC-A-02-03-200424 19.14, Description: PDI-162SC-A-02-03-200424

#	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	4.44e3	0.83	NO	0.982	10.306	17.666	17.66	1.000	1.001	76.578		4.10	76.6
2	2 13C-2,3,7,8-TCDF	1.15e4	0.73	NO	1.08	10.306	17.689	17.65	1.133	1.136	103.07	53.1	4.01	
3	3 13C-1,2,3,4-TCDF	1.99e4	0.81	NO	1.00	10.306	15.660	15.53	1.000	1.000	194.06	100	4.34	

Dataset: U:\VG7.PRO\Results\200520D1\200520D1_8.qld

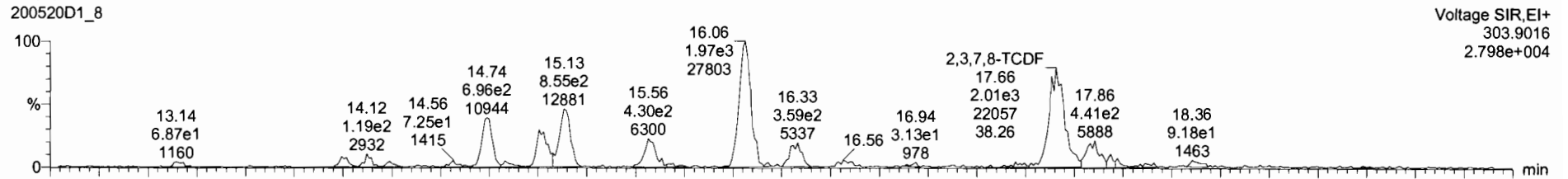
Last Altered: Wednesday, May 20, 2020 17:03:11 Pacific Daylight Time
Printed: Wednesday, May 20, 2020 17:05:30 Pacific Daylight Time

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

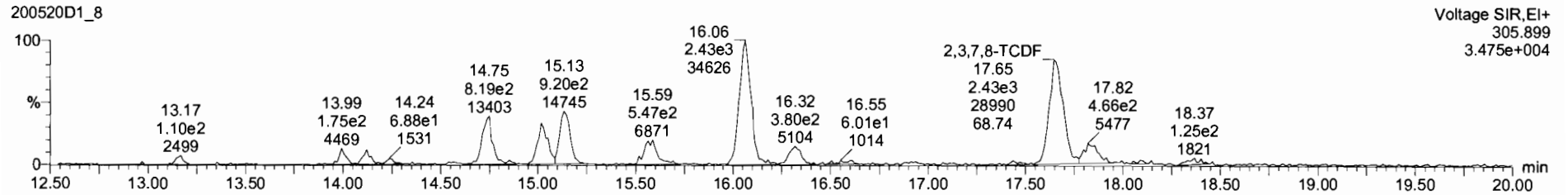
Name: 200520D1_8, Date: 20-May-2020, Time: 16:15:08, ID: 2000946-02RE1 PDI-162SC-A-02-03-200424 19.14, Description: PDI-162SC-A-02-03-200424

2,3,7,8-TCDF

200520D1_8



200520D1_8

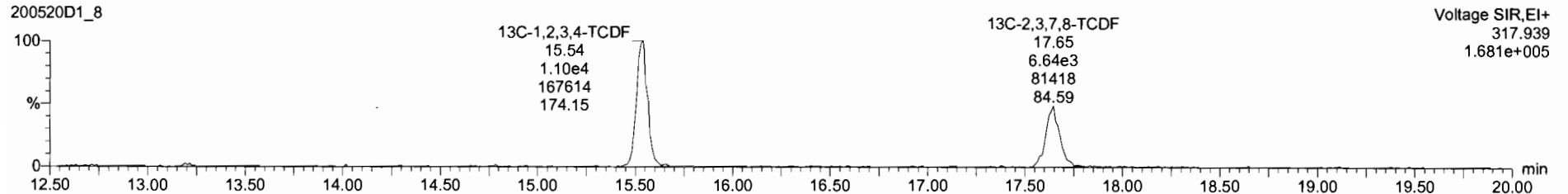


13C-2,3,7,8-TCDF

200520D1_8



200520D1_8



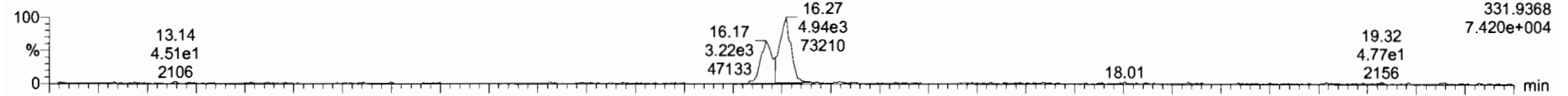
Dataset: U:\VG7.PRO\Results\200520D1\200520D1_8.qld

Last Altered: Wednesday, May 20, 2020 17:03:11 Pacific Daylight Time
Printed: Wednesday, May 20, 2020 17:05:30 Pacific Daylight Time

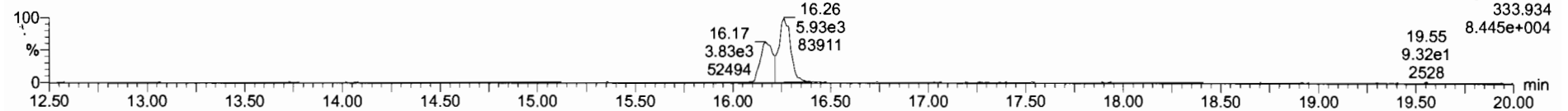
Name: 200520D1_8, Date: 20-May-2020, Time: 16:15:08, ID: 2000946-02RE1 PDI-162SC-A-02-03-200424 19.14, Description: PDI-162SC-A-02-03-200424

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

200520D1_8

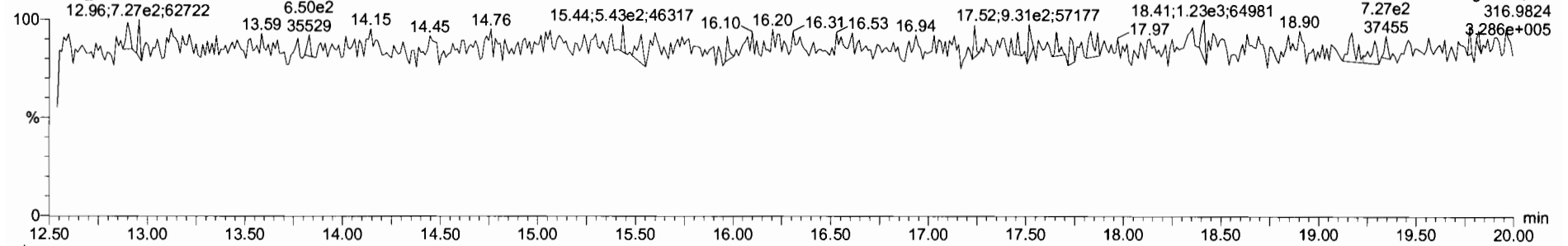


200520D1_8



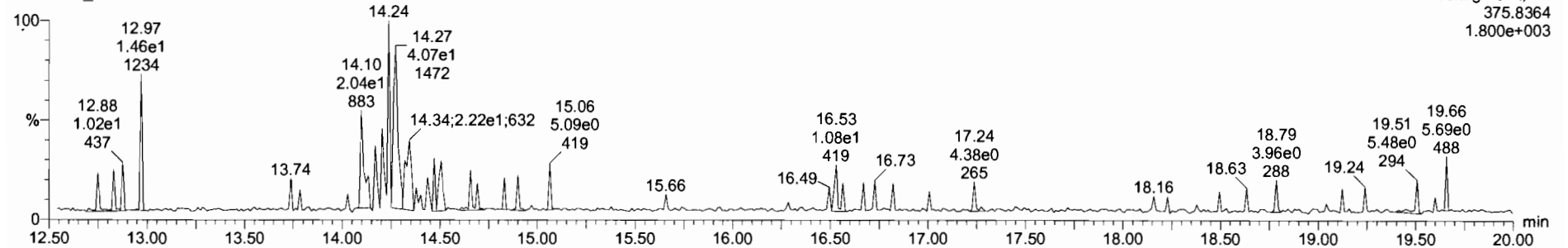
PFK1

200520D1_8



DPE1

200520D1_8



Dataset: U:\VG7.PRO\Results\200520D1\200520D1_9.qld

Last Altered: Wednesday, May 20, 2020 17:23:31 Pacific Daylight Time
Printed: Wednesday, May 20, 2020 17:25:05 Pacific Daylight Time

DB 5/20/20

C705/24/2020

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_9, Date: 20-May-2020, Time: 16:46:50, ID: 2000946-03RE1 PDI-162SC-A-03-04-200424 13.48, Description: PDI-162SC-A-03-04-200424

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	1.21e3	0.80	NO	0.982	10.912	17.643	17.66	1.000	1.002	13.679		2.28	13.7
2	2 13C-2,3,7,8-TCDF	1.65e4	0.74	NO	1.08	10.912	17.677	17.62	1.133	1.136	129.75	70.8	3.45	
3	3 13C-1,2,3,4-TCDF	2.15e4	0.77	NO	1.00	10.912	15.660	15.52	1.000	1.000	183.28	100	3.73	

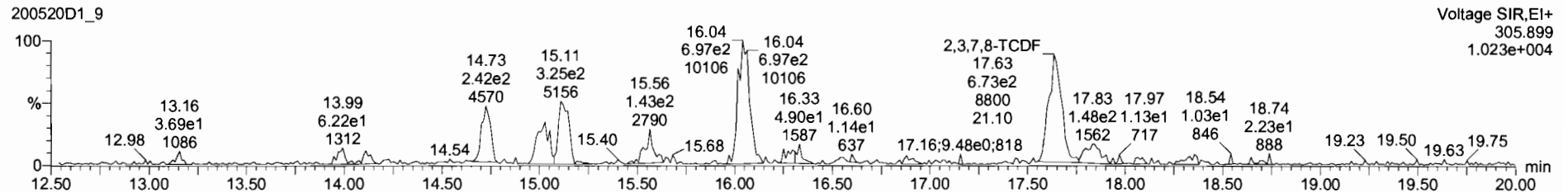
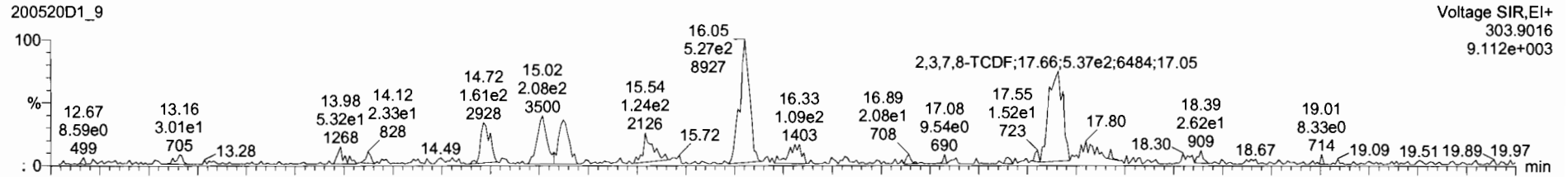
Dataset: U:\VG7.PRO\Results\200520D1\200520D1_9.qld

Last Altered: Wednesday, May 20, 2020 17:23:31 Pacific Daylight Time
Printed: Wednesday, May 20, 2020 17:25:30 Pacific Daylight Time

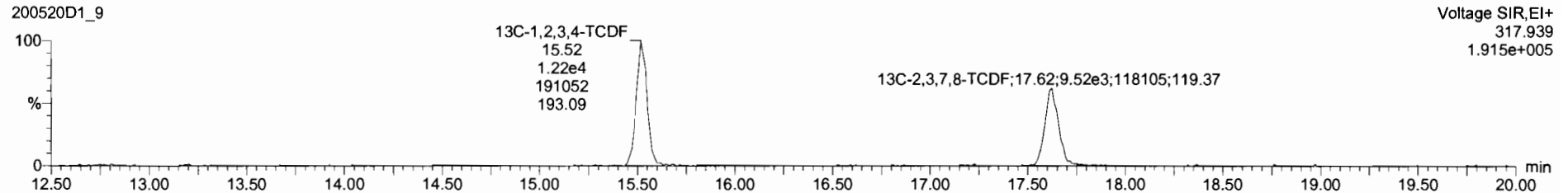
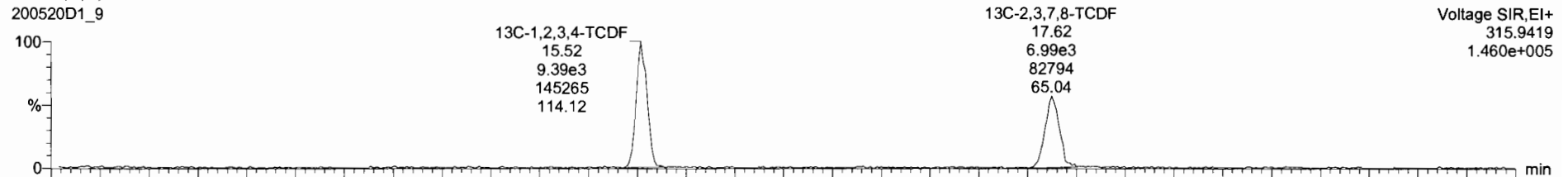
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200520D1_9, Date: 20-May-2020, Time: 16:46:50, ID: 2000946-03RE1 PDI-162SC-A-03-04-200424 13.48, Description: PDI-162SC-A-03-04-200424

2,3,7,8-TCDF



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



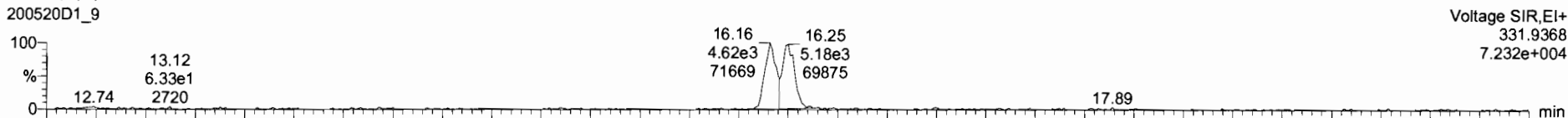
Dataset: U:\VG7.PRO\Results\200520D1\200520D1_9.qld

Last Altered: Wednesday, May 20, 2020 17:23:31 Pacific Daylight Time
Printed: Wednesday, May 20, 2020 17:25:30 Pacific Daylight Time

Name: 200520D1_9, Date: 20-May-2020, Time: 16:46:50, ID: 2000946-03RE1 PDI-162SC-A-03-04-200424 13.48, Description: PDI-162SC-A-03-04-200424

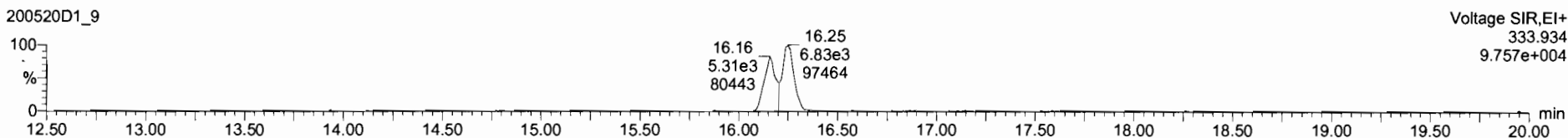
13C-1,2,3,4-TCDD

200520D1_9



Voltage SIR,EI+
331.9368
7.232e+004

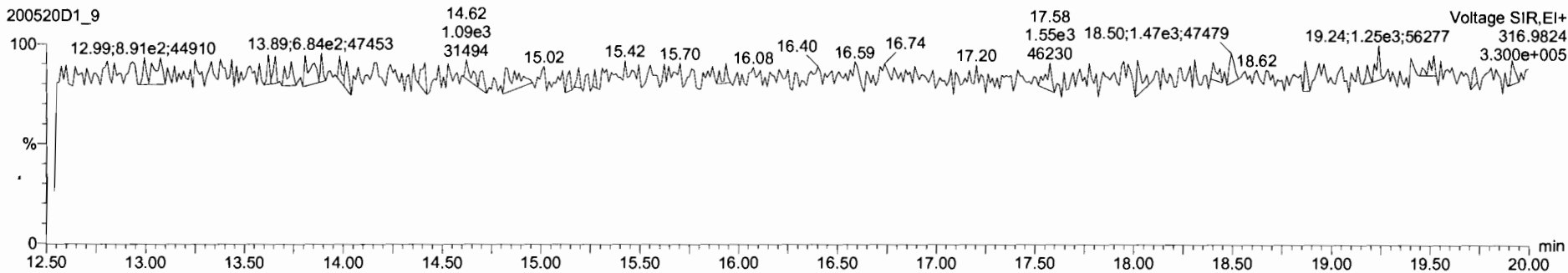
200520D1_9



Voltage SIR,EI+
333.934
9.757e+004

PFK1

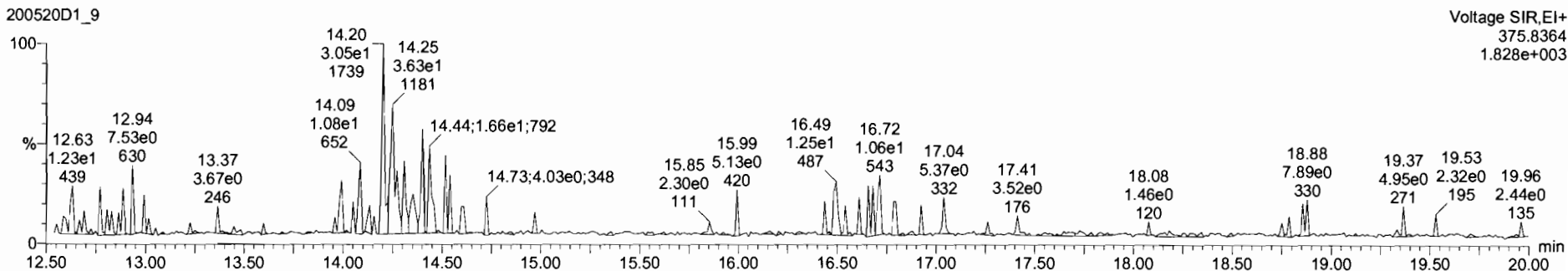
200520D1_9



Voltage SIR,EI+
316.9824
3.300e+005

DPE1

200520D1_9



Voltage SIR,EI+
375.8364
1.828e+003

Dataset: U:\VG7.PRO\Results\200520D1\200520D1_10.qld

Last Altered: Thursday, May 21, 2020 09:28:36 Pacific Daylight Time
Printed: Thursday, May 21, 2020 09:28:50 Pacific Daylight Time

DB 5/21/20 C705/22/2020

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_10, Date: 20-May-2020, Time: 17:18:33, ID: 2000946-04RE1 PDI-162SC-A-04-05-200424 11.77, Description: PDI-162SC-A-04-05-200424

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	3.10e2	0.67	NO	0.982	10.068	17.666	17.66	1.000	1.001	3.0818		3.55	3.08
2	2 13C-2,3,7,8-TCDF	2.04e4	0.75	NO	1.08	10.068	17.677	17.65	1.133	1.137	152.71	76.9	11.3	
3	3 13C-1,2,3,4-TCDF	2.45e4	0.80	NO	1.00	10.068	15.660	15.52	1.000	1.000	198.65	100	12.3	

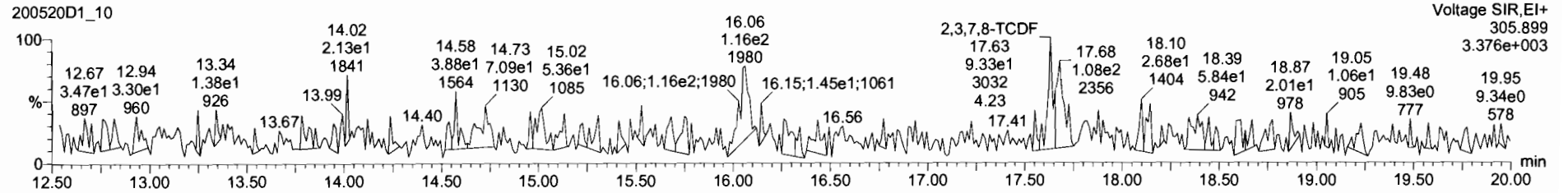
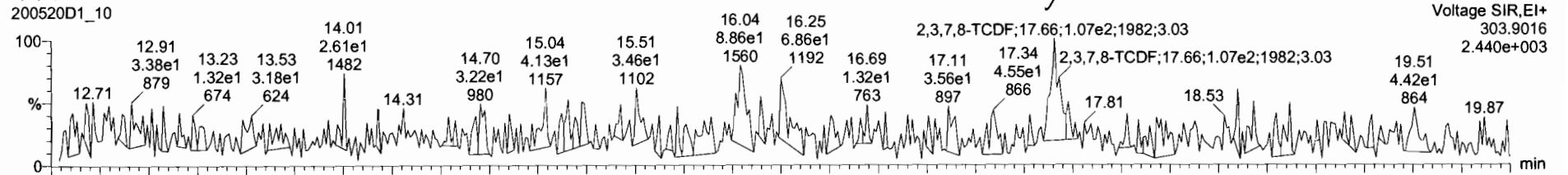
Dataset: U:\VG7.PRO\Results\200520D1\200520D1_10.qld

Last Altered: Thursday, May 21, 2020 09:24:46 Pacific Daylight Time
Printed: Thursday, May 21, 2020 09:26:29 Pacific Daylight Time

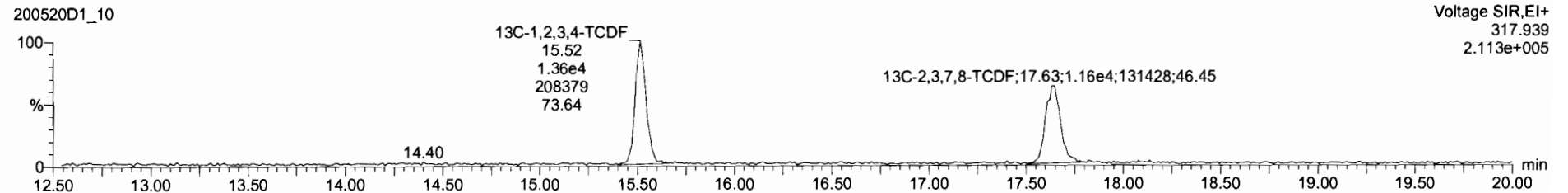
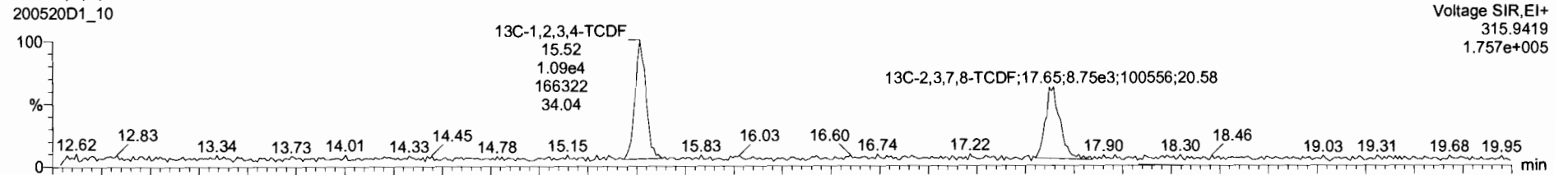
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200520D1_10, Date: 20-May-2020, Time: 17:18:33, ID: 2000946-04RE1 PDI-162SC-A-04-05-200424 11.77, Description: PDI-162SC-A-04-05-200424

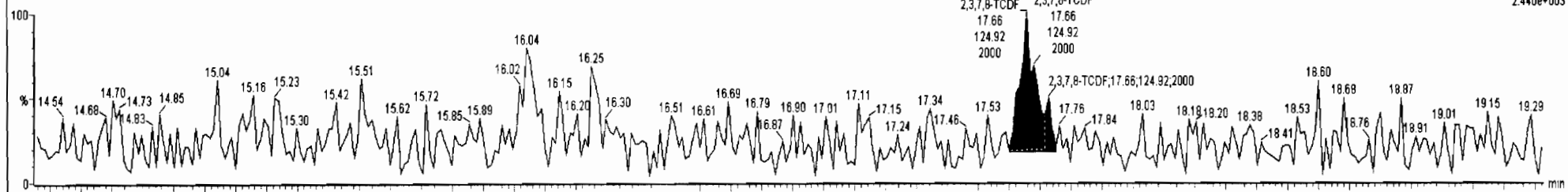
2,3,7,8-TCDF



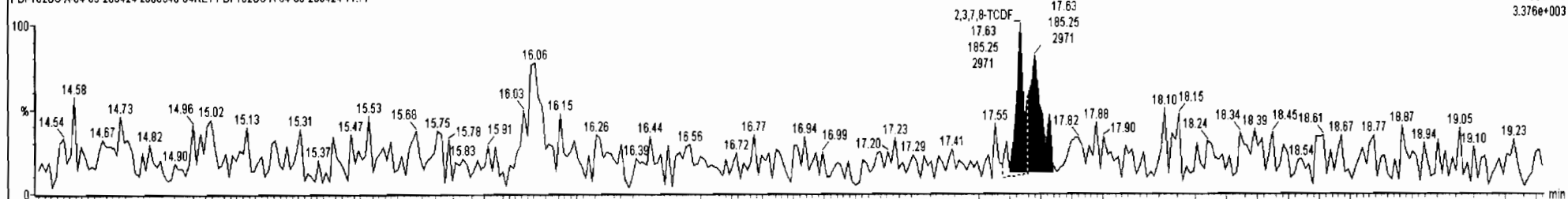
13C-2,3,7,8-TCDF



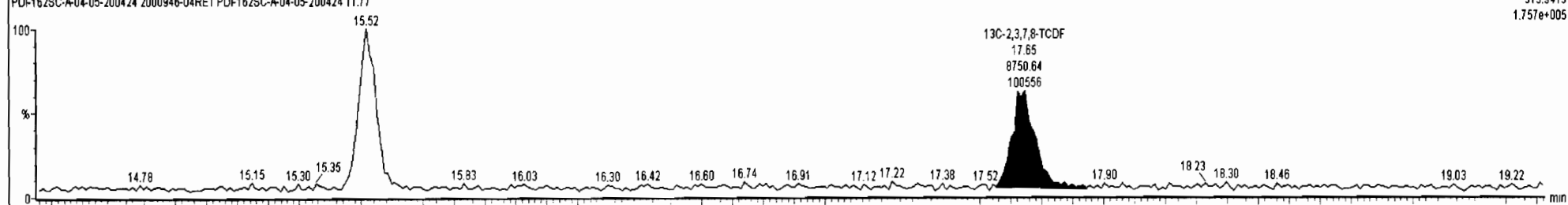
20052001_10
PDI-162SC-A-04-05-200424 2000946-04RE1 PDI-162SC-A-04-05-200424 11.77 Voltage SIR,EI+
303.9016
2.440e+003



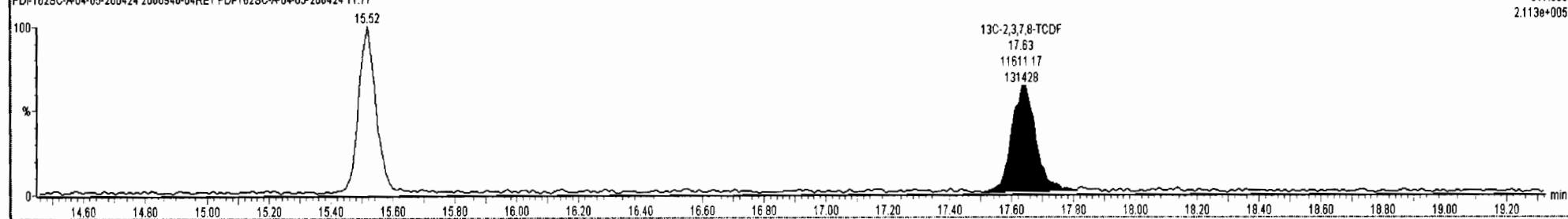
20052001_10
PDI-162SC-A-04-05-200424 2000946-04RE1 PDI-162SC-A-04-05-200424 11.77 Voltage SIR,EI+
305.899
3.376e+003



20052001_10
PDI-162SC-A-04-05-200424 2000946-04RE1 PDI-162SC-A-04-05-200424 11.77 Voltage SIR,EI+
315.9419
1.757e+005



20052001_10
PDI-162SC-A-04-05-200424 2000946-04RE1 PDI-162SC-A-04-05-200424 11.77 Voltage SIR,EI+
317.939
2.113e+005



Vista Analytical Laboratory VG-10

Dataset: U:\VG7.PRO\Results\200520D1\200520D1_10.qld

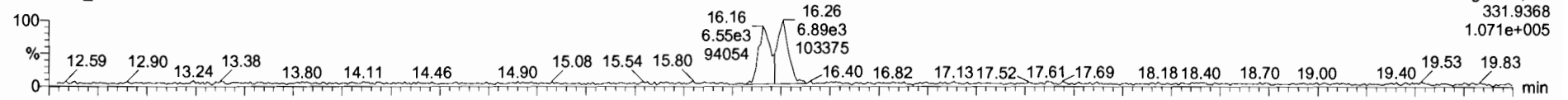
Last Altered: Thursday, May 21, 2020 09:24:46 Pacific Daylight Time

Printed: Thursday, May 21, 2020 09:26:29 Pacific Daylight Time

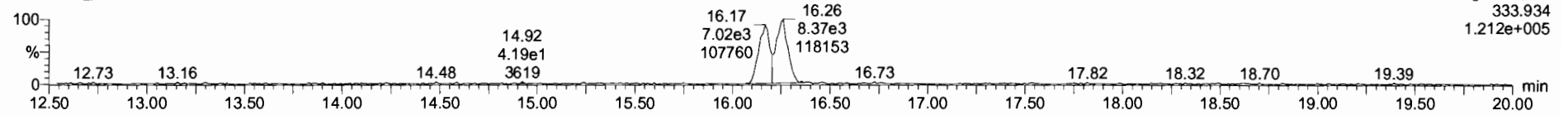
Name: 200520D1_10, Date: 20-May-2020, Time: 17:18:33, ID: 2000946-04RE1 PDI-162SC-A-04-05-200424 11.77, Description: PDI-162SC-A-04-05-200424

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

200520D1_10

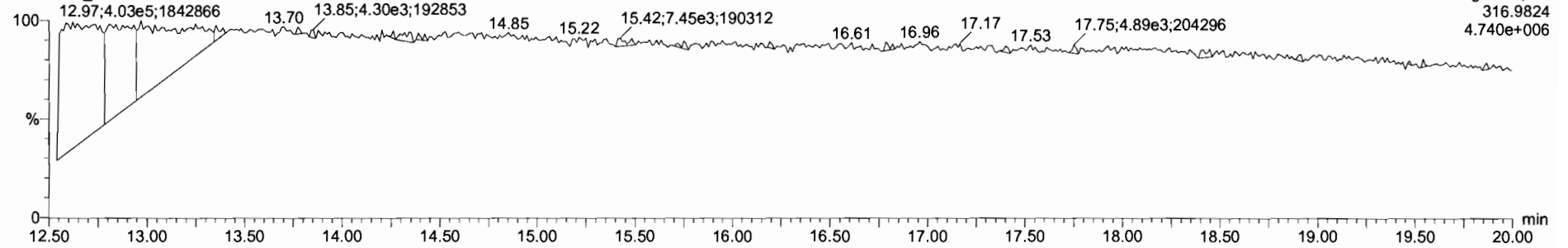


200520D1_10



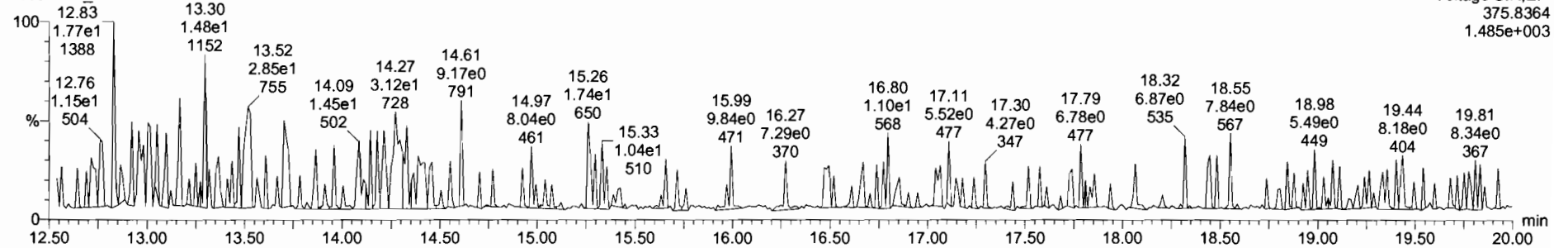
PFK1

200520D1_10



DPE1

200520D1_10



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200515R4

Reviewed By: CT 05/19/2020
Initials & Date

End Calibration ID: ST200515R2-1

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

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

Comments:

Dataset: U:\VG12.PRO\Results\200515R1\200515R1-1.qld

Last Altered: Friday, May 15, 2020 9:09:35 AM Pacific Daylight Time
Printed: Friday, May 15, 2020 9:10:23 AM Pacific Daylight Time

GPB 05/15/2020

C7 05/19/2020

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

Name: 200515R1_1, Date: 15-May-2020, Time: 08:13:47, ID: ST200515R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1	2,3,7,8-TCDD	1.29e5	1.51e6	0.77	NO	0.947	26.08	26.08	NO	1.001	1.001	9.0264	90.3	NO
2	1,2,3,7,8-PeCDD	5.02e5	1.17e6	0.62	NO	0.942	31.16	31.16	NO	1.001	1.000	45.405	90.8	NO
3	1,2,3,4,7,8-HxCDD	4.30e5	8.38e5	1.24	NO	1.06	34.52	34.53	NO	1.000	1.001	48.269	96.5	NO
4	1,2,3,6,7,8-HxCDD	4.50e5	1.00e6	1.22	NO	0.915	34.61	34.62	NO	1.000	1.000	49.106	98.2	NO
5	1,2,3,7,8,9-HxCDD	4.26e5	9.70e5	1.24	NO	0.915	34.90	34.90	NO	1.000	1.000	48.048	96.1	NO
6	1,2,3,4,6,7,8-HpCDD	3.46e5	7.68e5	1.02	NO	0.898	38.39	38.40	NO	1.000	1.001	50.180	100	NO
7	OCDD	6.66e5	1.44e6	0.89	NO	0.933	41.35	41.36	NO	1.000	1.000	99.155	99.2	NO
8	2,3,7,8-TCDF	1.51e5	1.95e6	0.73	NO	0.787	25.15	25.15	NO	1.001	1.001	9.8602	98.6	NO
9	1,2,3,7,8-PeCDF	7.26e5	1.65e6	1.57	NO	0.910	29.85	29.84	NO	1.001	1.001	48.474	96.9	NO
10	2,3,4,7,8-PeCDF	7.24e5	1.60e6	1.55	NO	0.966	30.87	30.85	NO	1.001	1.000	46.912	93.8	NO
11	1,2,3,4,7,8-HxCDF	5.14e5	1.10e6	1.23	NO	0.878	33.64	33.66	NO	1.000	1.001	52.993	106	NO
12	1,2,3,6,7,8-HxCDF	5.49e5	1.19e6	1.19	NO	0.874	33.78	33.78	NO	1.000	1.000	52.586	105	NO
13	2,3,4,6,7,8-HxCDF	5.39e5	1.10e6	1.22	NO	0.922	34.37	34.36	NO	1.001	1.001	53.220	106	NO
14	1,2,3,7,8,9-HxCDF	4.50e5	9.75e5	1.22	NO	0.864	35.23	35.25	NO	1.000	1.001	53.435	107	NO
15	1,2,3,4,6,7,8-HpCDF	4.17e5	8.85e5	1.02	NO	0.871	37.00	36.98	NO	1.001	1.000	54.096	108	NO
16	1,2,3,4,7,8,9-HpCDF	3.34e5	6.06e5	1.01	NO	1.01	38.97	38.98	NO	1.000	1.000	54.449	109	NO
17	OCDF	6.83e5	1.60e6	0.87	NO	0.802	41.55	41.56	NO	1.000	1.000	106.09	106	NO
18	13C-2,3,7,8-TCDD	1.51e6	1.25e6	0.78	NO	1.16	26.05	26.05	NO	1.026	1.027	104.63	105	NO
19	13C-1,2,3,7,8-PeCDD	1.17e6	1.25e6	0.62	NO	0.847	31.14	31.14	NO	1.227	1.227	111.15	111	NO
20	13C-1,2,3,4,7,8-HxCDD	8.38e5	1.04e6	1.28	NO	0.750	34.52	34.51	NO	1.014	1.014	106.99	107	NO
21	13C-1,2,3,6,7,8-HxCDD	1.00e6	1.04e6	1.26	NO	0.963	34.63	34.61	NO	1.017	1.017	99.723	99.7	NO
22	13C-1,2,3,7,8,9-HxCDD	9.70e5	1.04e6	1.26	NO	0.838	34.90	34.89	NO	1.025	1.025	110.86	111	NO
23	13C-1,2,3,4,6,7,8-HpCDD	7.68e5	1.04e6	1.04	NO	0.641	38.39	38.38	NO	1.128	1.128	114.69	115	NO
24	13C-OCDD	1.44e6	1.04e6	0.90	NO	0.586	41.39	41.35	NO	1.216	1.215	235.13	118	NO
25	13C-2,3,7,8-TCDF	1.95e6	1.74e6	0.77	NO	1.03	25.10	25.12	NO	0.989	0.990	108.02	108	NO
26	13C-1,2,3,7,8-PeCDF	1.65e6	1.74e6	1.60	NO	0.845	29.83	29.83	NO	1.176	1.175	111.59	112	NO
27	13C-2,3,4,7,8-PeCDF	1.60e6	1.74e6	1.59	NO	0.814	30.82	30.83	NO	1.215	1.215	112.51	113	NO
28	13C-1,2,3,4,7,8-HxCDF	1.10e6	1.04e6	0.51	NO	1.00	33.66	33.64	NO	0.989	0.988	105.25	105	NO
29	13C-1,2,3,6,7,8-HxCDF	1.19e6	1.04e6	0.52	NO	1.14	33.78	33.77	NO	0.992	0.992	100.59	101	NO
30	13C-2,3,4,6,7,8-HxCDF	1.10e6	1.04e6	0.51	NO	1.02	34.35	34.33	NO	1.009	1.009	102.88	103	NO
31	13C-1,2,3,7,8,9-HxCDF	9.75e5	1.04e6	0.52	NO	0.845	35.24	35.23	NO	1.035	1.035	110.54	111	NO

Dataset: U:\VG12.PRO\Results\200515R1\200515R1-1.qld

Last Altered: Friday, May 15, 2020 9:09:35 AM Pacific Daylight Time

Printed: Friday, May 15, 2020 9:10:23 AM Pacific Daylight Time

GRB 05/15/2020

Name: 200515R1_1, Date: 15-May-2020, Time: 08:13:47, ID: ST200515R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

32	13C-1,2,3,4,6,7,8-HpCDF	8.85e5	1.04e6	0.45	NO	0.771	36.97	36.97	NO	1.086	1.086	109.87	110	NO
33	13C-1,2,3,4,7,8,9-HpCDF	6.06e5	1.04e6	0.43	NO	0.482	38.98	38.97	NO	1.145	1.145	120.29	120	NO
34	13C-OCDF	1.60e6	1.04e6	0.88	NO	0.669	41.56	41.55	NO	1.221	1.221	229.79	115	NO
35	37Cl-2,3,7,8-TCDD	1.38e5	1.25e6			1.10	26.08	26.08	NO	1.028	1.028	10.087	101	NO
36	13C-1,2,3,4-TCDD	1.25e6	1.25e6	0.80	NO	1.00	25.35	25.38	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	1.74e6	1.74e6	0.80	NO	1.00	23.56	23.59	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	1.04e6	1.04e6	0.51	NO	1.00	34.00	34.04	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Dataset: Untitled

Last Altered: Friday, May 15, 2020 3:38:14 PM Pacific Daylight Time

Printed: Friday, May 15, 2020 3:38:17 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

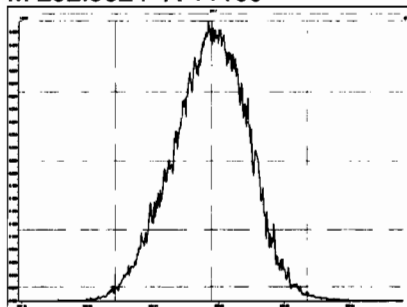
Compound name: 2,3,7,8-TCDD

Sample Name	Sample Description	Date	Time
200515R1_1	ST200515R1_1 1613 CS3 19L2305	15-May-20	08:13:47
200515R1_2	B0D0306-BS1 OPR 10	15-May-20	09:01:39
200515R1_3	SOLVENT BLANK	15-May-20	09:47:50
200515R1_4	B0D0306-BLK1 Method Blank 10	15-May-20	10:34:04
200515R1_5	2000932-20RE1@2X SD-0033 26.4	15-May-20	11:21:13
200515R1_6	2000934-05@2X SD-0038 21.04	15-May-20	12:07:54
200515R1_7	2000934-06@5X SD-0039 20.86	15-May-20	12:55:06
200515R2_1	SOLVENT BLANK	15-May-20	13:54:36
200515R2_2	ST200515R2_1 1613 CS3 19L2305	15-May-20	14:40:51

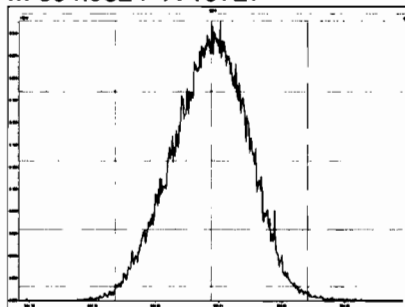
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, May 15, 2020 08:07:57 Pacific Daylight Time

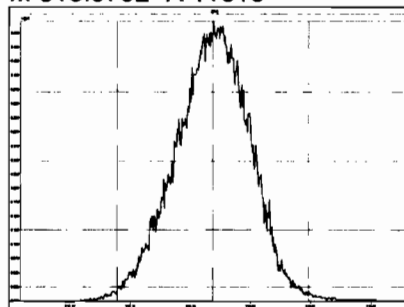
M 292.9824 R 11160



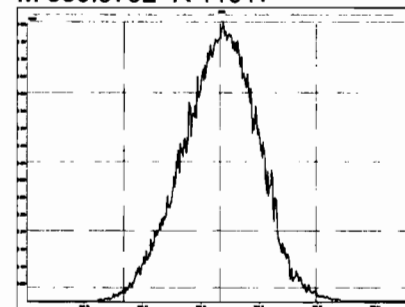
M 304.9824 R 10727



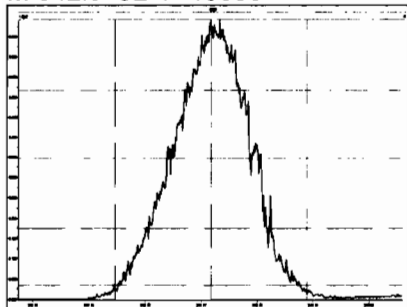
M 318.9792 R 11516



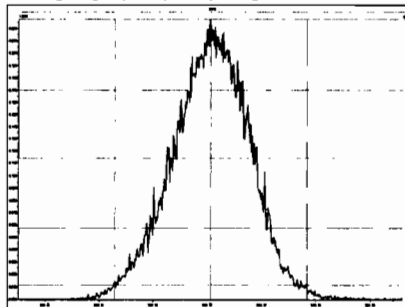
M 330.9792 R 11017



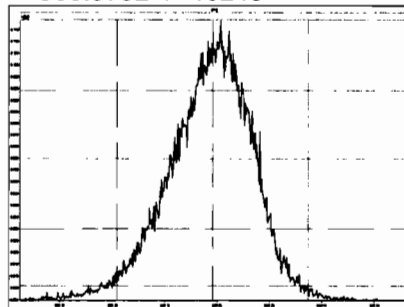
M 342.9792 R 10635



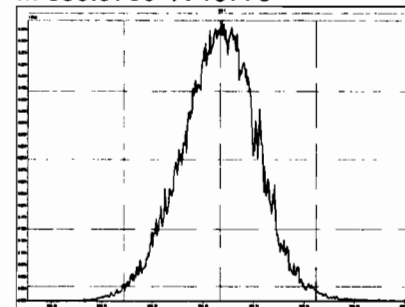
M 354.9792 R 10775



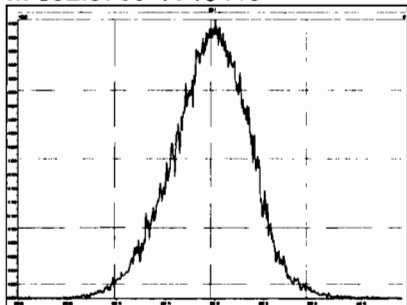
M 366.9792 R 10248



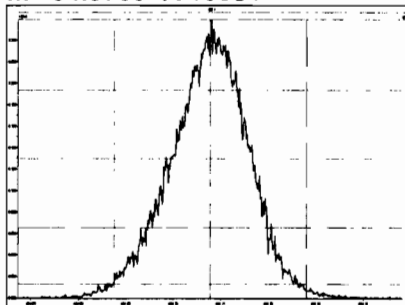
M 380.9760 R 10776



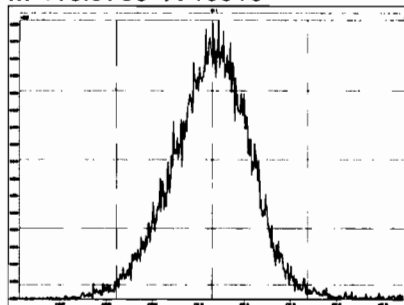
M 392.9760 R 10419



M 404.9760 R 10331



M 416.9760 R 10916



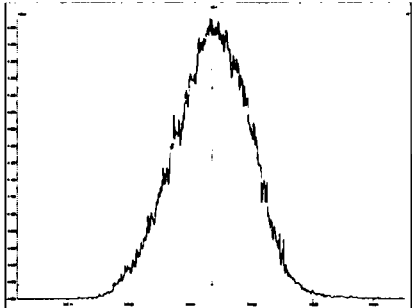
Experiment Calibration Report

MassLynx 4.1 SCN815

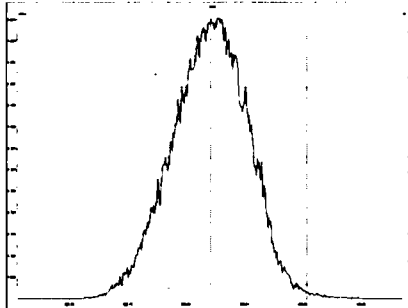
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

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

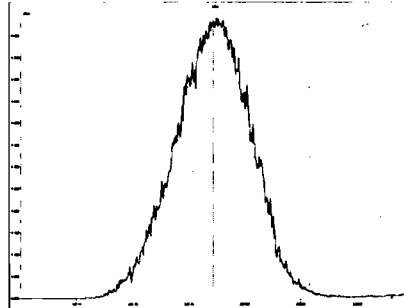
M 318.9792 R 10506



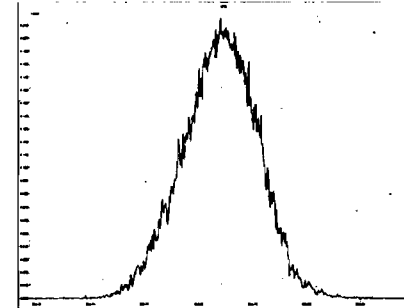
M 330.9792 R 11368



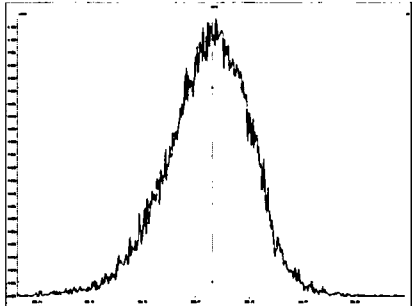
M 342.9792 R 10636



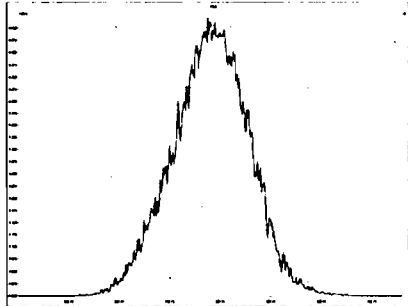
M 354.9792 R 11364



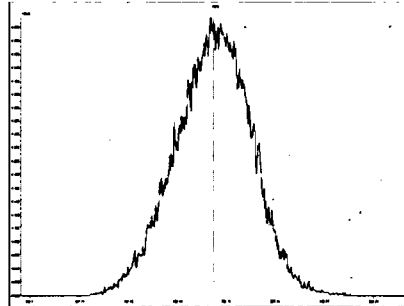
M 366.9792 R 10202



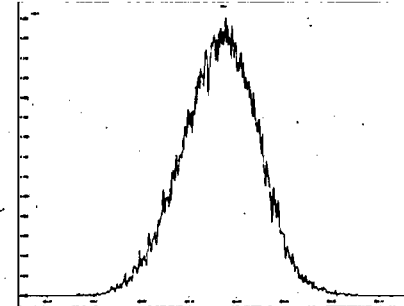
M 380.9760 R 10819



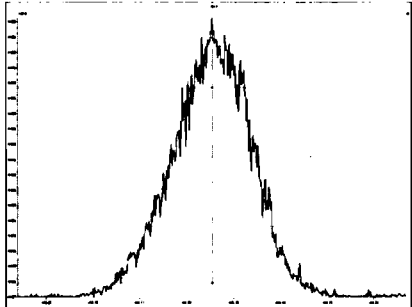
M 392.9760 R 10592



M 404.9760 R 10914



M 416.9760 R 10504



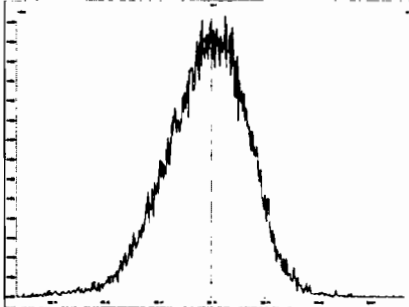
Experiment Calibration Report

MassLynx 4.1 SCN815

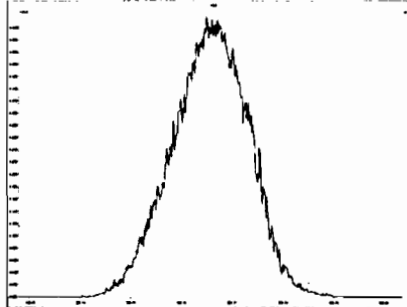
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, May 15, 2020 08:10:11 Pacific Daylight Time

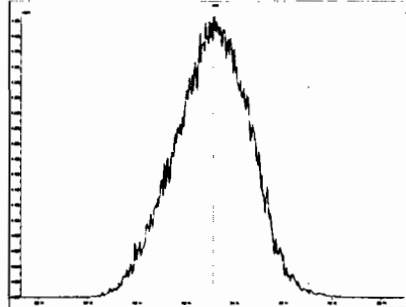
M 366.9792 R 10161



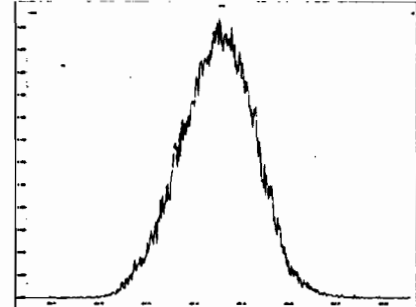
M 380.9760 R 11059



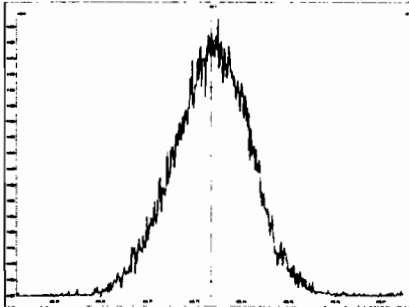
M 392.9760 R 10916



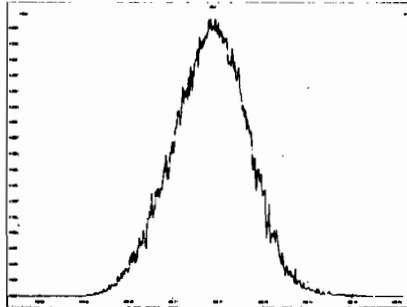
M 404.9760 R 10915



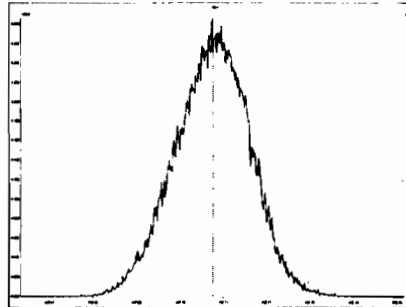
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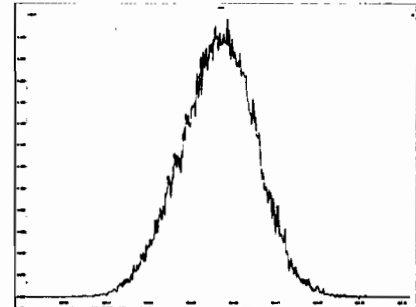
M 430.9728 R 10916



M 442.9728 R 10918



M 454.9728 R 10592



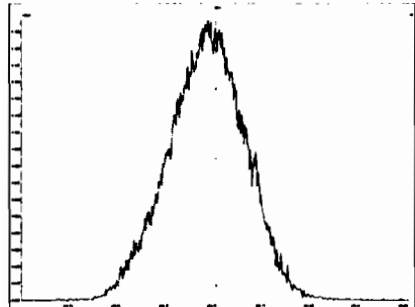
Experiment Calibration Report

MassLynx 4.1 SCN815

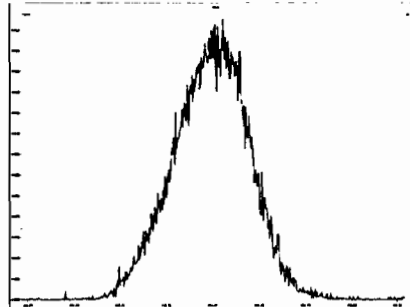
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Printed: Friday, May 15, 2020 08:10:59 Pacific Daylight Time

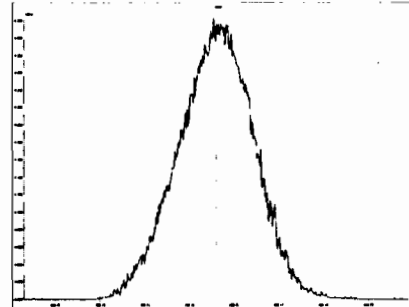
M 404.9760 R 11060



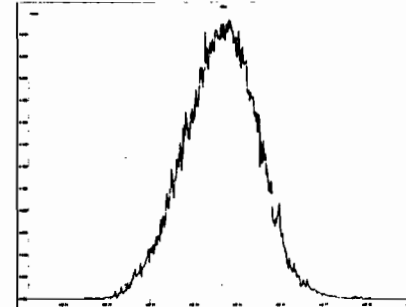
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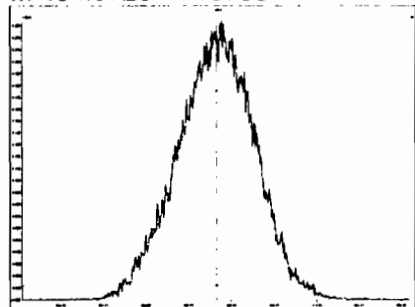
M 430.9728 R 10964



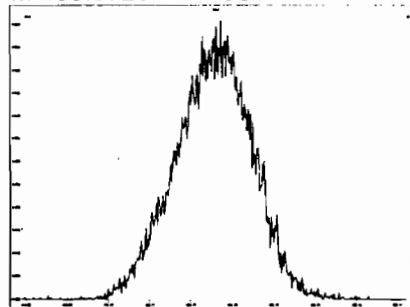
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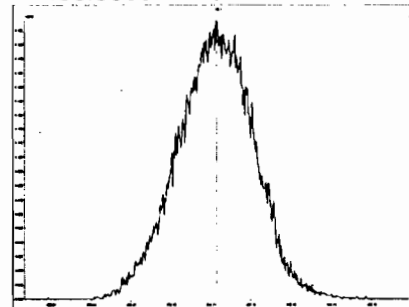
M 454.9728 R 10730



M 466.9728 R 11681



M 480.9696 R 10777



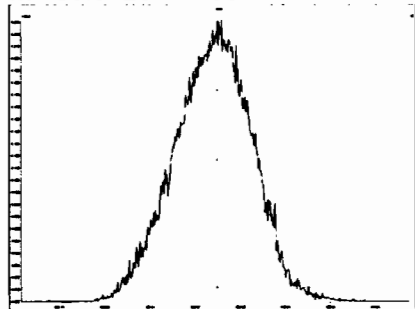
Experiment-Calibration Report

MassLynx 4.1 SCN815

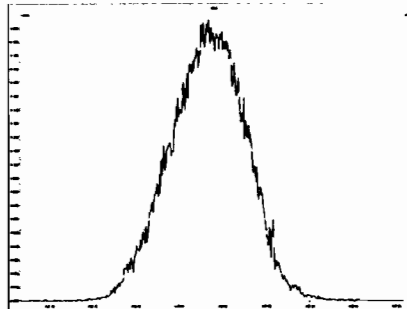
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Printed: Friday, May 15, 2020 08:11:37 Pacific Daylight Time

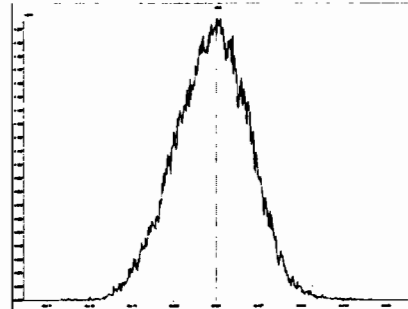
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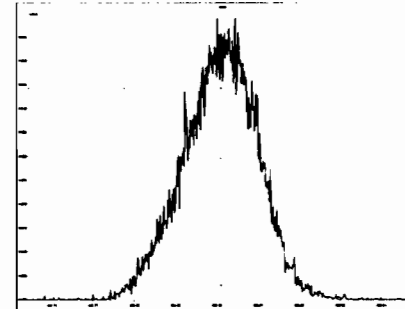
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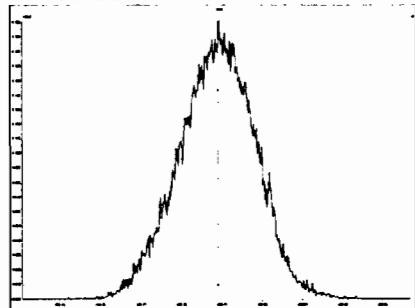
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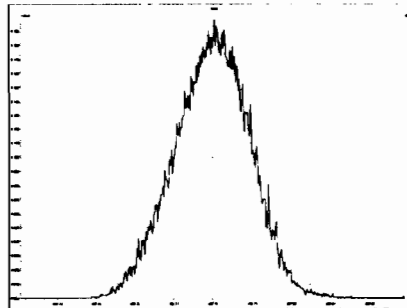
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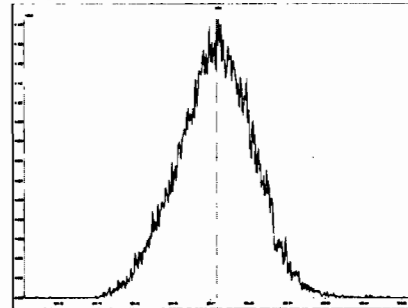
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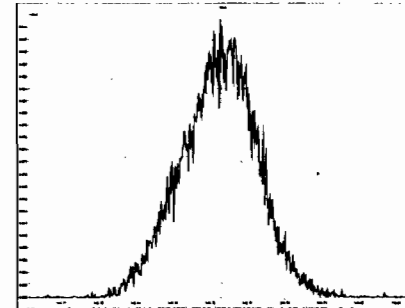
M 492.9696 R 11063



M 504.9696 R 11062



M 516.9697 R 11630



Dataset: Untitled

Last Altered: Friday, May 15, 2020 09:01:12 Pacific Daylight Time

Printed: Friday, May 15, 2020 09:01:52 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: 200515R1_1, Date: 15-May-2020, Time: 08:13:47, ID: ST200515R1_1 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)	27.07
3	3 1,2,4,7,9-PeCDD (First)	28.90
4	4 1,2,3,8,9-PeCDD (Last)	31.54
5	5 1,2,4,6,7,9-HxCDD (First)	33.05
6	6 1,2,3,7,8,9-HxCDD (Last)	34.90
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.36
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.40
9	9 1,3,6,8-TCDF (First)	19.82
10	10 1,2,8,9-TCDF (Last)	27.22
11	11 1,3,4,6,8-PeCDF (First)	27.17
12	12 1,2,3,8,9-PeCDF (Last)	31.78
13	13 1,2,3,4,6,8-HxCDF (First)	32.49
14	14 1,2,3,7,8,9-HxCDF (Last)	35.25
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.98
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.98

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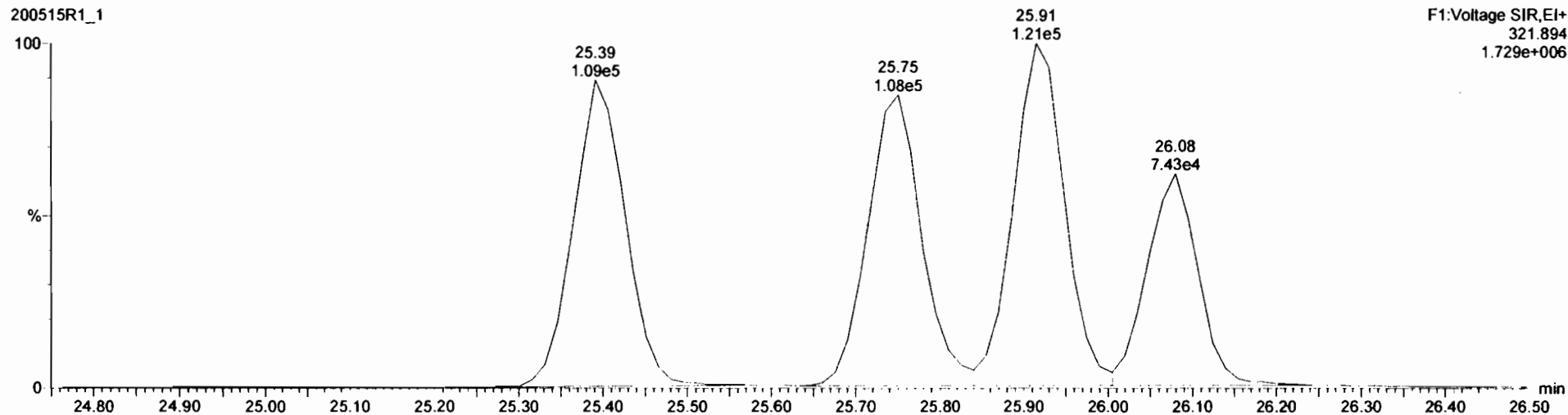
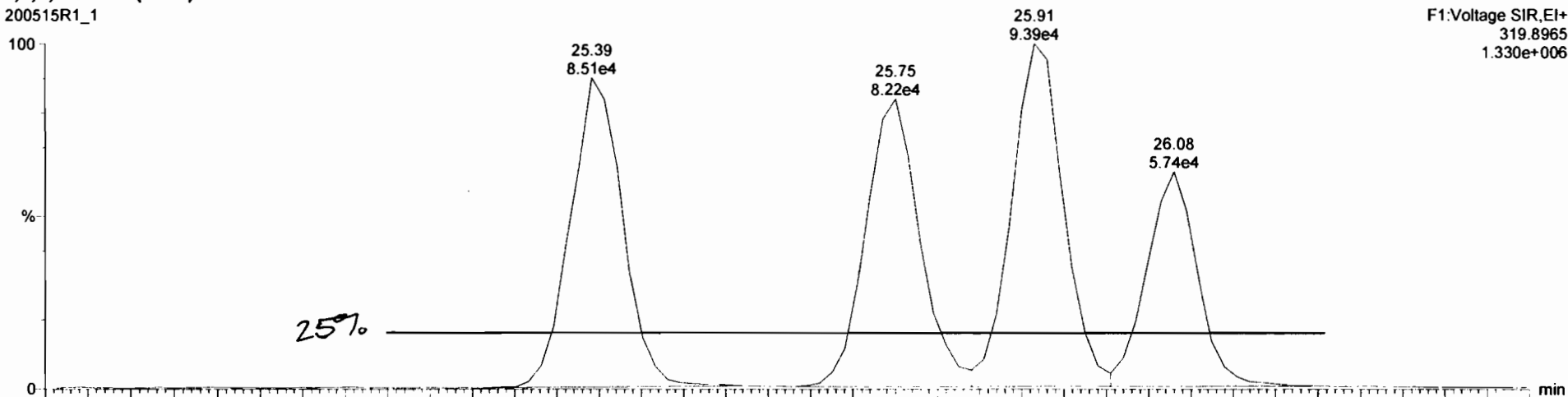
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GRB 05/15/2020

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

Sample Name: 200515R1_1, Date: 15-May-2020, Time: 08:13:47, ID: ST200515R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200515R1_1



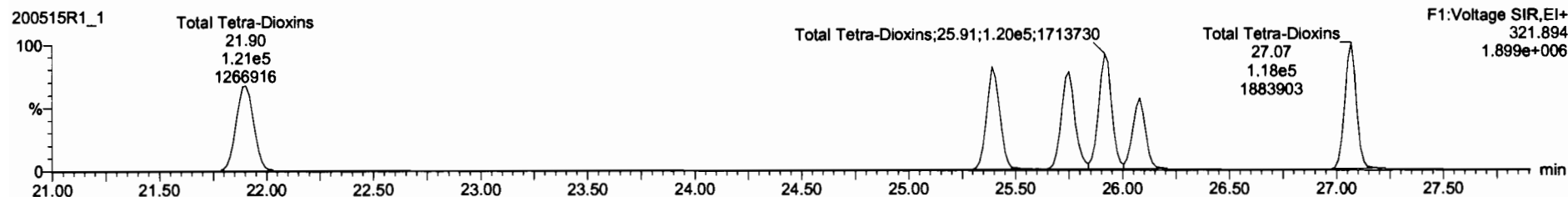
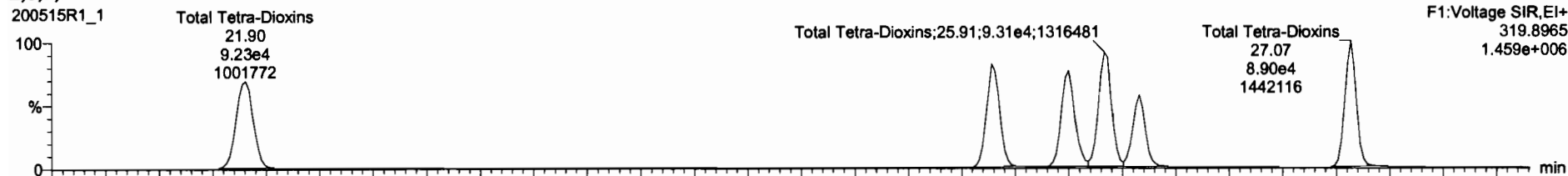
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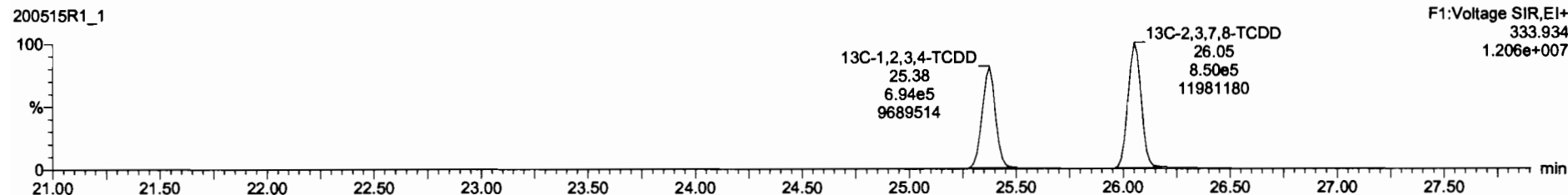
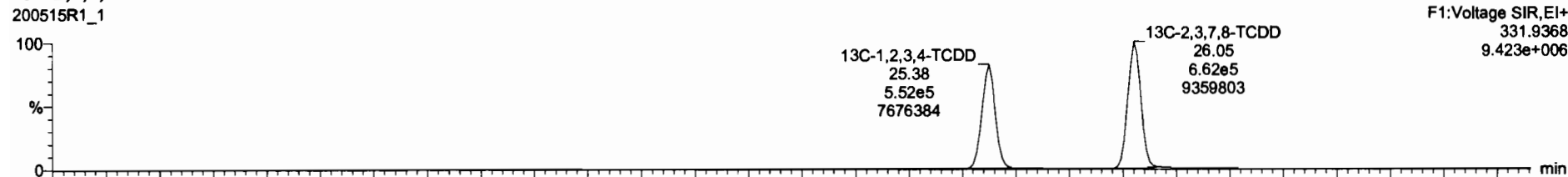
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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200515R1_1, Date: 15-May-2020, Time: 08:13:47, ID: ST200515R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



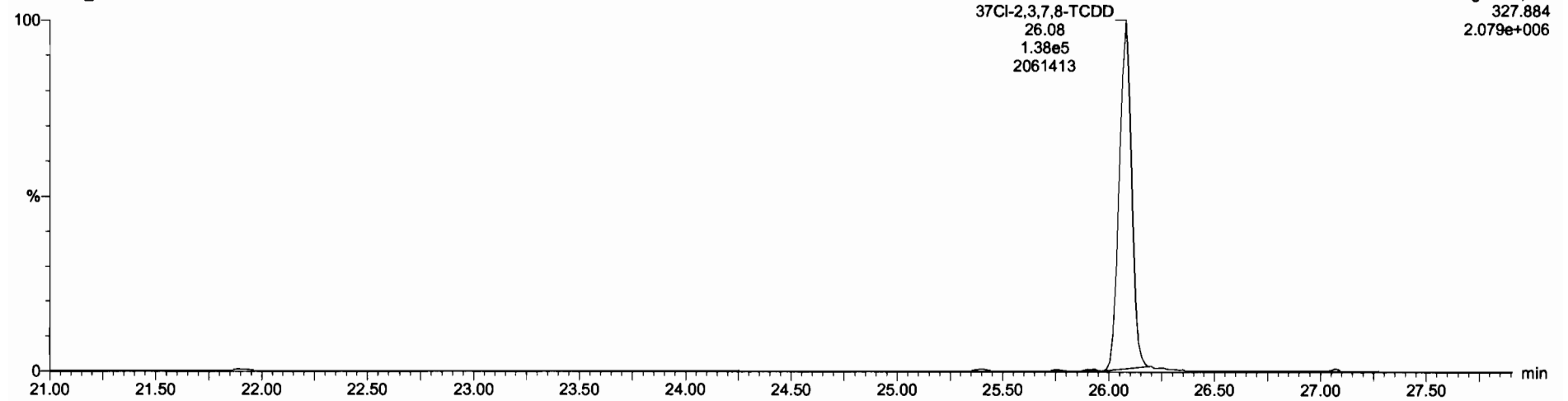
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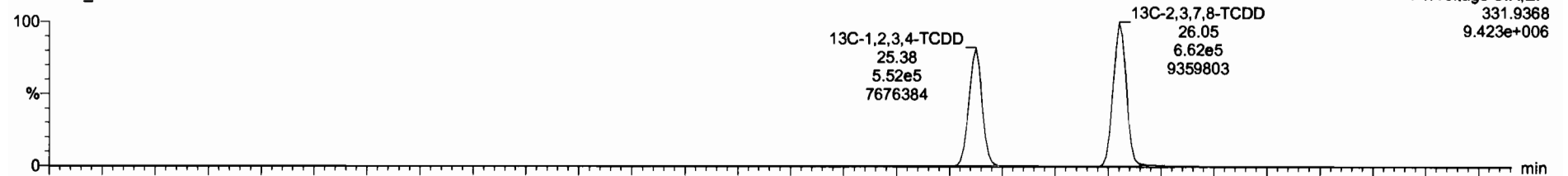
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200515R1_1

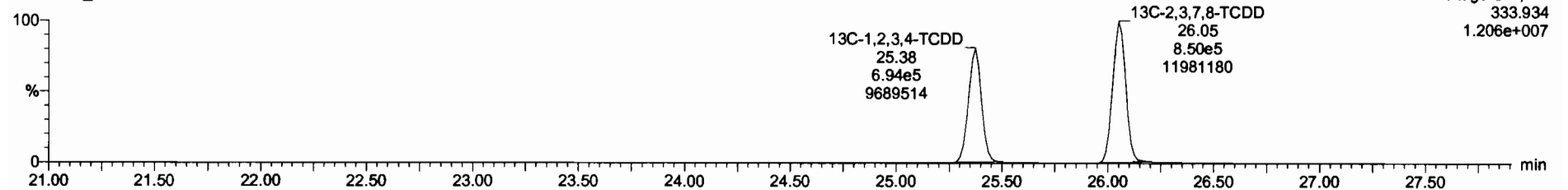


13C-1,2,3,4-TCDD

200515R1_1



200515R1_1



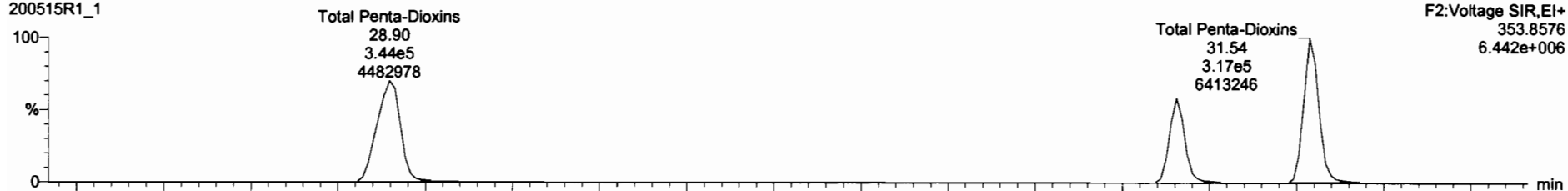
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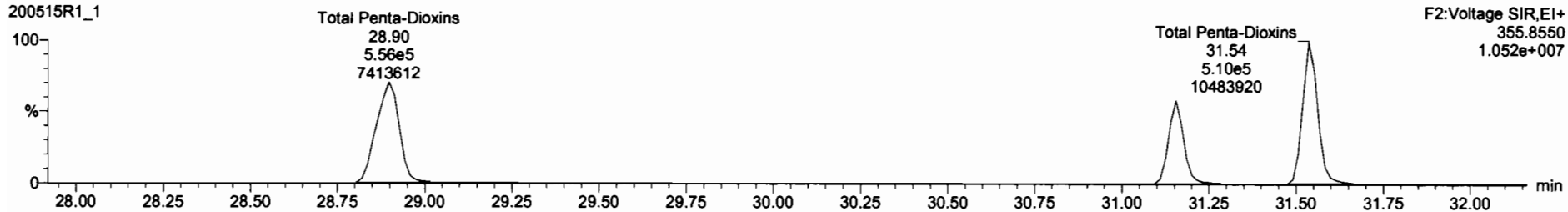
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1,2,3,7,8-PeCDD

200515R1_1

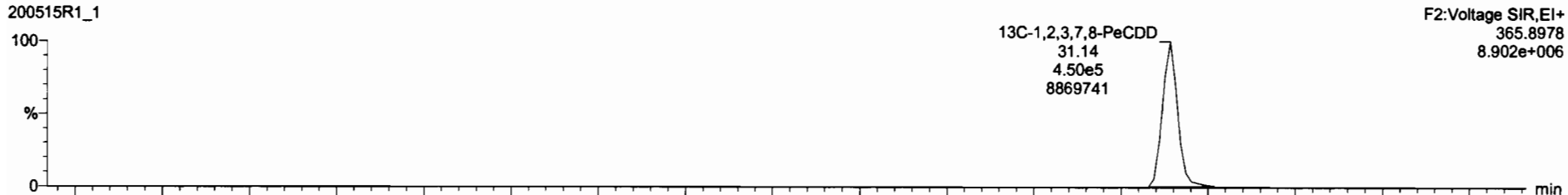


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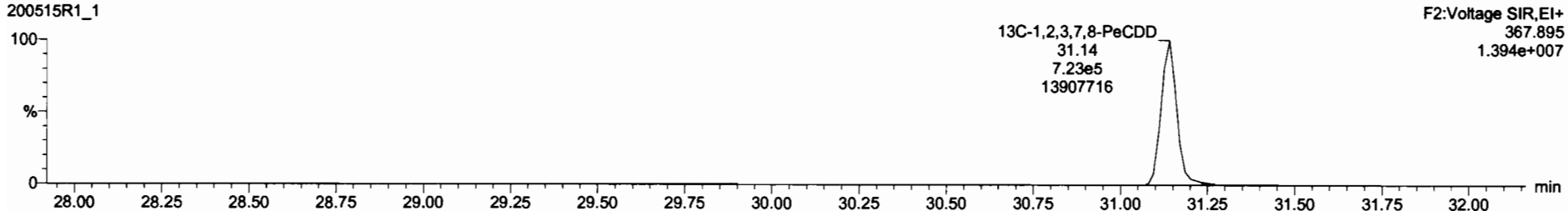


13C-1,2,3,7,8-PeCDD

200515R1_1



200515R1_1



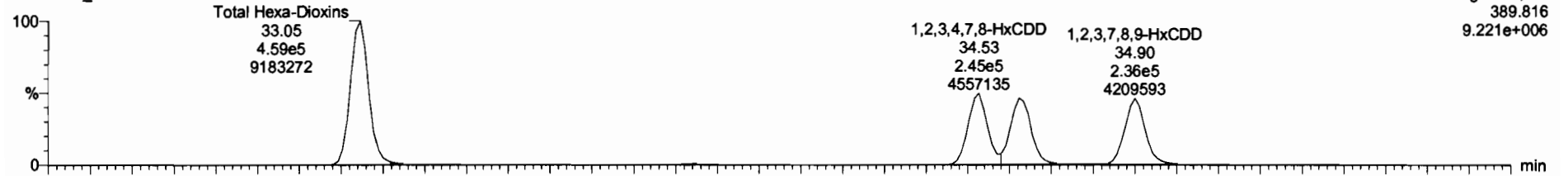
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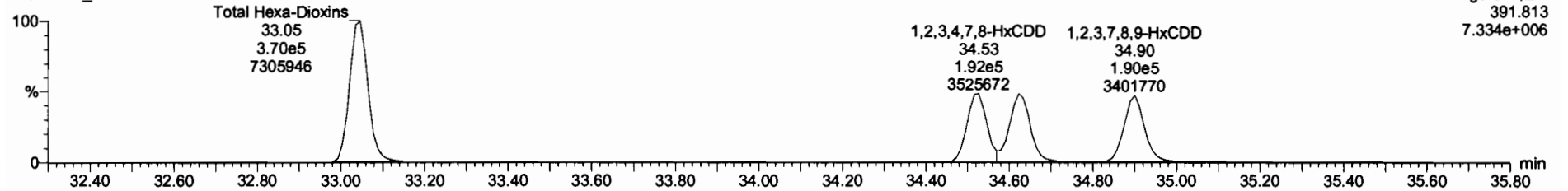
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1,2,3,4,7,8-HxCDD

200515R1_1

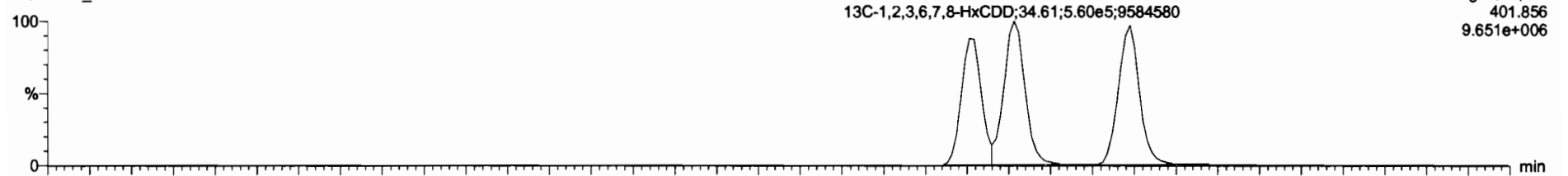


200515R1_1

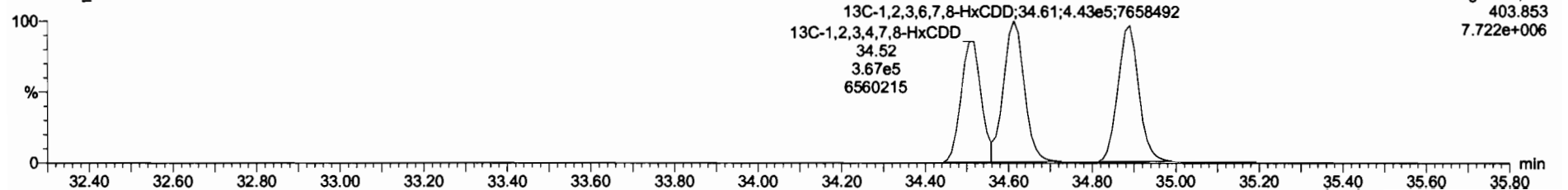


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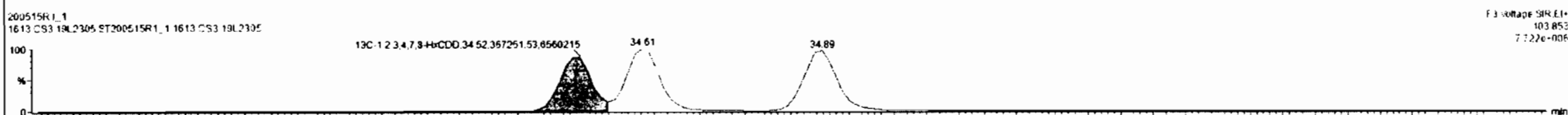
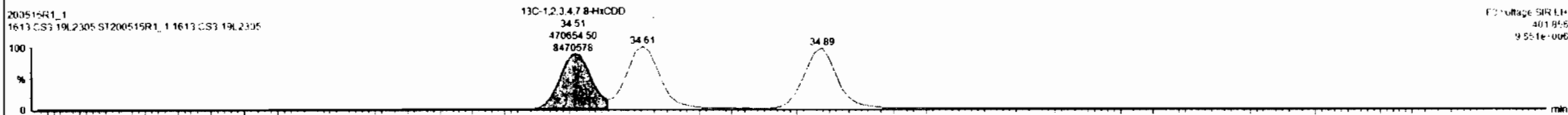
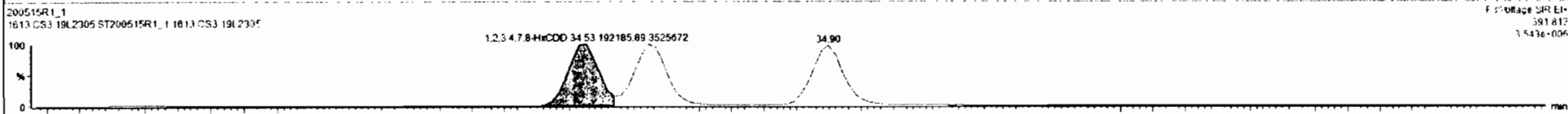
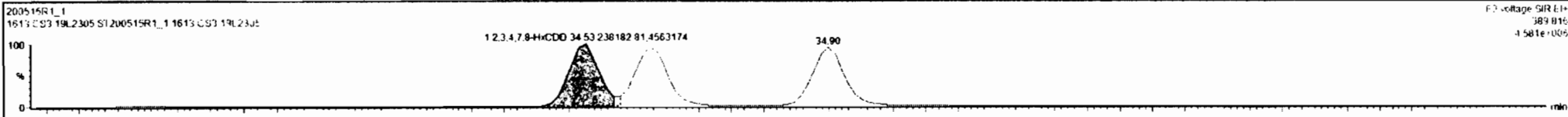
200515R1_1



200515R1_1

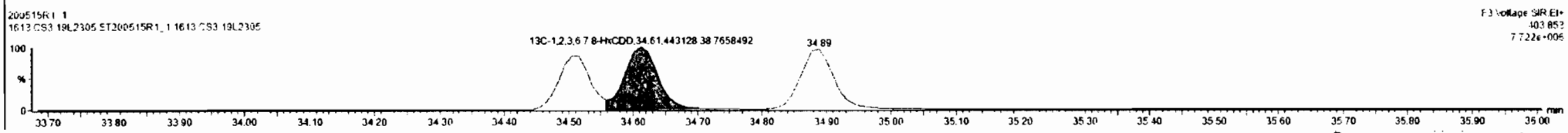
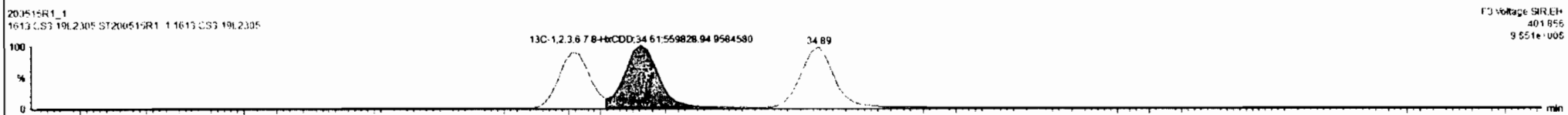
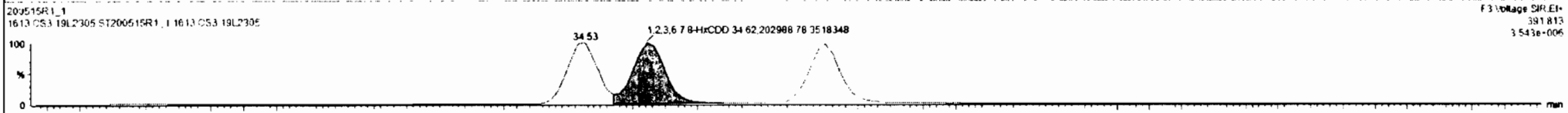
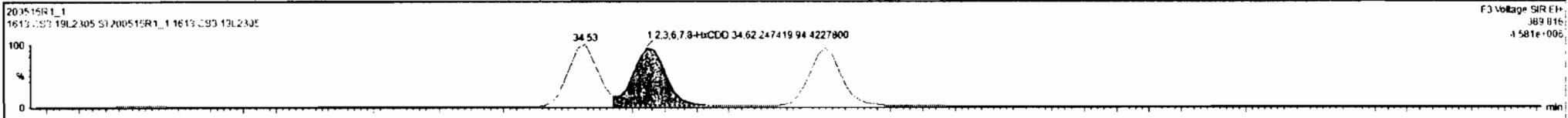


#	Name	Resp	IS Resp	Pred RA	RA	aly	RPF	PredRT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	1.29e5	1.51e6	0.77	0.77	NO	0.9475	26.08	26.08	NO	1.001	1.001	9.03	90.3	NO
2	1,2,3,7,8-PeCDD	5.02e5	1.17e6	0.63	0.62	NO	0.9425	31.16	31.16	NO	1.001	1.000	45.4	90.8	NO
3	1,2,3,7,8-HxCDD	4.45e5	1.00e6	1.24	1.19	NO	0.9145	34.61	34.62	NO	1.000	1.000	48.5	97.0	NO
4	1,2,3,7,8,9-HxCDD	4.26e5	9.70e5	1.24	1.24	NO	0.9149	34.90	34.90	NO	1.000	1.000	48.0	96.1	NO
5	1,2,3,4,6,7,8-HpCDD	3.46e5	7.56e5	1.04	1.02	NO	0.8979	38.39	38.40	NO	1.000	1.001	50.2	100	NO
6	OCDD	6.66e5	1.44e6	0.89	0.89	NO	0.8935	41.35	41.36	NO	1.000	1.000	99.2	99.2	NO
7	1,2,3,7,8-TCDF	1.51e5	1.95e6	0.77	0.73	NO	0.7871	25.15	25.15	NO	1.001	1.001	9.86	96.6	NO
8	1,2,3,7,8-PeCDF	7.26e5	1.85e6	1.55	1.57	NO	0.9102	29.85	29.84	NO	1.001	1.001	48.2	96.9	NO
9	1,2,3,4,7,8-HxCDF	7.24e5	1.60e6	1.55	1.55	NO	0.9664	30.87	30.85	NO	1.001	1.000	46.9	92.8	NO
10	1,2,3,4,7,8,9-HxCDF	5.14e5	1.10e6	1.24	1.23	NO	0.8782	33.64	33.66	NO	1.000	1.001	53.0	106	NO
11	1,2,3,6,7,8-HxCDF	5.49e5	1.19e6	1.24	1.19	NO	0.8740	33.78	33.78	NO	1.000	1.000	52.6	105	NO
12	1,2,3,4,6,7,8-HxCDF	5.39e5	1.10e6	1.24	1.22	NO	0.9217	34.37	34.36	NO	1.001	1.001	53.2	106	NO
13	1,2,3,7,8,9-HxCDF	4.50e5	9.75e5	1.24	1.22	NO	0.9642	35.23	35.25	NO	1.000	1.001	53.4	107	NO
14	1,2,3,4,6,7,8-HpCDF	4.17e5	8.85e5	1.04	1.02	NO	0.8712	37.00	36.98	NO	1.001	1.000	54.1	106	NO
15	1,2,3,4,7,8,9-HpCDF	3.34e5	6.06e5	1.04	1.01	NO	1.0115	38.87	38.98	NO	1.000	1.000	54.4	109	NO
16	OCDF	6.83e5	1.60e6	0.89	0.87	NO	0.8021	41.55	41.56	NO	1.000	1.000	106	106	NO





#	Name	Wtpp	IS-Ramp	Prod RA	RA	aly	RSF	ProdRT	RT	RT Flag	ProdRRT	RRT	Comp	SRac	STD out
1	1.2,3,7,8-TCDD	1.29e5	1.51e6	0.77	0.77	NO	0.9475	26.08	26.08	NO	1.001	1.001	9.03	90.3	NO
2	1.2,3,7,8-PeCDD	5.02e5	1.17e6	0.83	0.82	NO	0.9425	31.18	31.18	NO	1.001	1.000	45.4	90.8	NO
3	1.2,3,4,7,8-HxCDD	4.30e5	8.38e5	1.24	1.24	NO	1.0641	34.52	34.53	NO	1.000	1.001	46.2	96.5	NO
4	1.2,3,6,7,8-HxCDD	4.26e5	9.70e5	1.24	1.24	NO	0.9149	34.90	34.90	NO	1.000	1.000	48.0	96.1	NO
5	1.2,3,7,8,9-HxCDD	4.26e5	9.70e5	1.24	1.24	NO	0.9149	34.90	34.90	NO	1.000	1.000	48.0	96.1	NO
6	1.2,3,4,6,7,8-HpCDD	3.46e5	7.68e5	1.04	1.02	NO	0.9979	38.39	38.40	NO	1.000	1.001	50.2	100	NO
7	OCDD	6.06e5	1.44e6	0.89	0.89	NO	0.9335	41.35	41.35	NO	1.000	1.000	99.2	99.2	NO
8	1.2,3,7,8-TCDF	1.51e5	1.95e6	0.77	0.73	NO	0.9781	25.15	25.15	NO	1.001	1.001	9.86	96.6	NO
9	1.2,3,7,8-PeCDF	7.26e5	1.05e6	1.55	1.57	NO	0.9102	29.85	29.84	NO	1.001	1.001	46.5	96.9	NO
10	1.2,3,4,7,8-PeCDF	7.24e5	1.60e6	1.55	1.55	NO	0.9964	30.87	30.85	NO	1.001	1.000	46.9	92.8	NO
11	1.2,3,4,7,8-HxCDF	5.14e5	1.10e6	1.24	1.23	NO	0.8782	33.64	33.65	NO	1.000	1.001	53.0	106	NO
12	1.2,3,6,7,8-HxCDF	5.49e5	1.19e6	1.24	1.19	NO	0.8740	33.78	33.78	NO	1.000	1.000	52.6	105	NO
13	1.2,3,4,6,7,8-HxCDF	5.39e5	1.10e6	1.24	1.22	NO	0.9217	34.37	34.36	NO	1.001	1.001	53.2	106	NO
14	1.2,3,7,8,9-HxCDF	4.50e5	9.75e5	1.24	1.22	NO	0.9542	35.23	35.25	NO	1.000	1.001	53.4	107	NO
15	1.2,3,4,6,7,8-HpCDF	4.17e5	8.85e5	1.04	1.02	NO	0.8712	37.00	36.98	NO	1.001	1.000	54.1	108	NO
16	1.2,3,4,7,8,9-HpCDF	3.34e5	6.06e5	1.04	1.01	NO	1.0116	38.97	38.98	NO	1.000	1.000	54.4	109	NO
17	OCDF	6.83e5	1.60e6	0.89	0.87	NO	0.8821	41.55	41.55	NO	1.000	1.000	106	106	NO



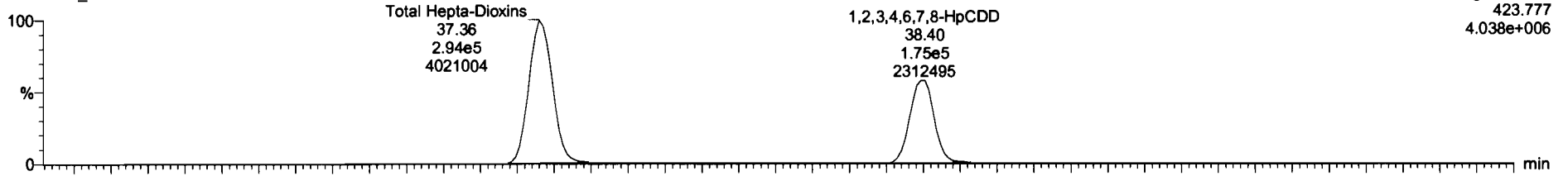
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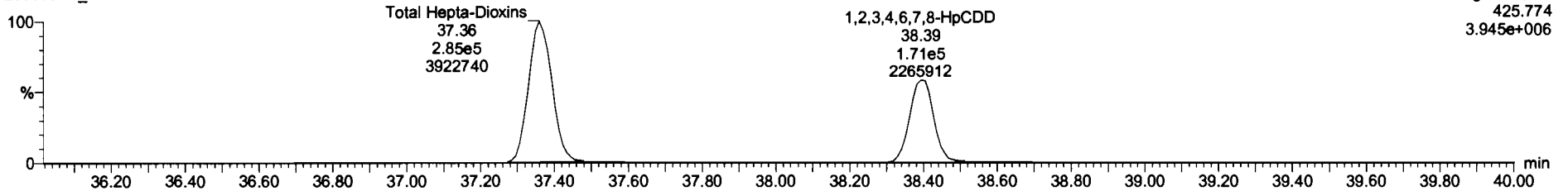
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1,2,3,4,6,7,8-HpCDD

200515R1_1

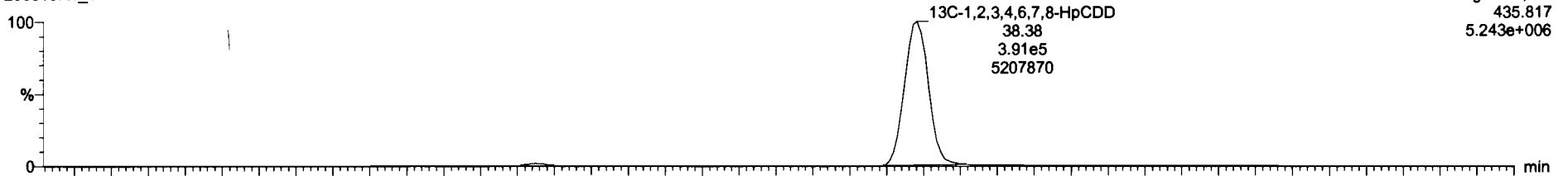


200515R1_1

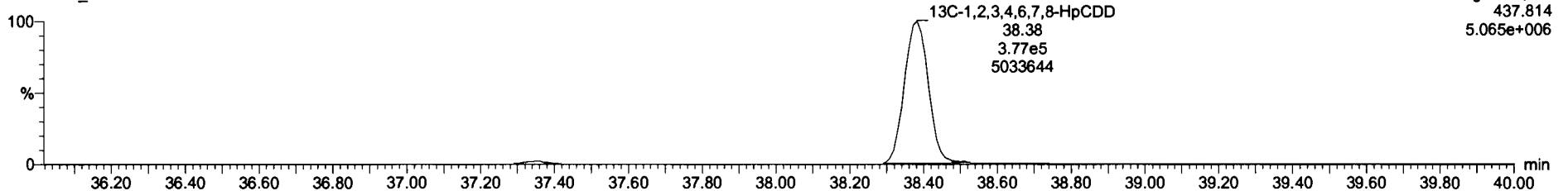


13C-1,2,3,4,6,7,8-HpCDD

200515R1_1



200515R1_1



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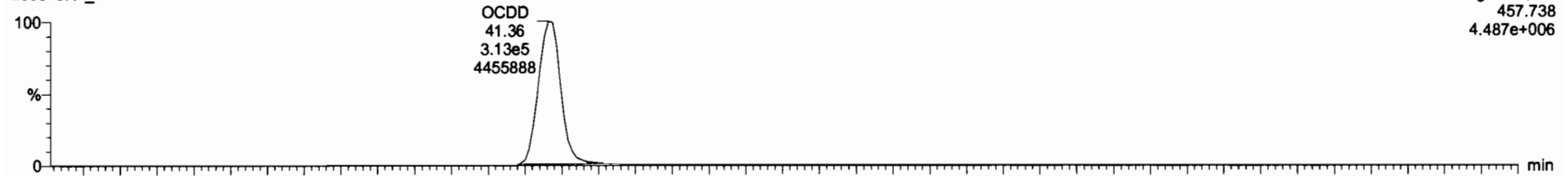
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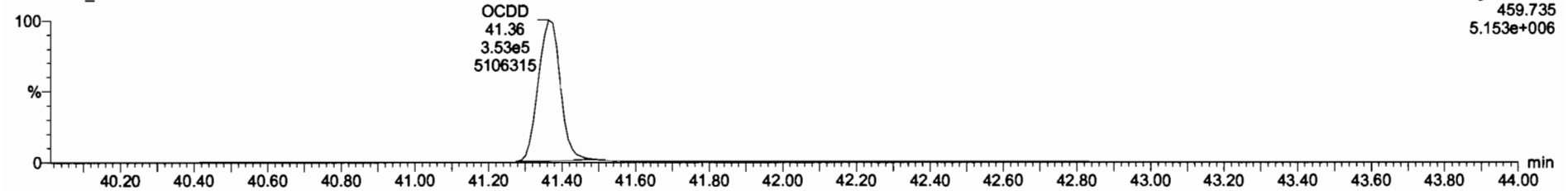
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OCDD

200515R1_1

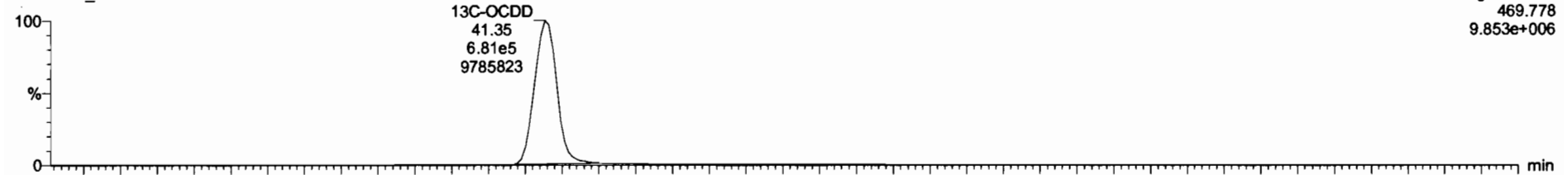


200515R1_1

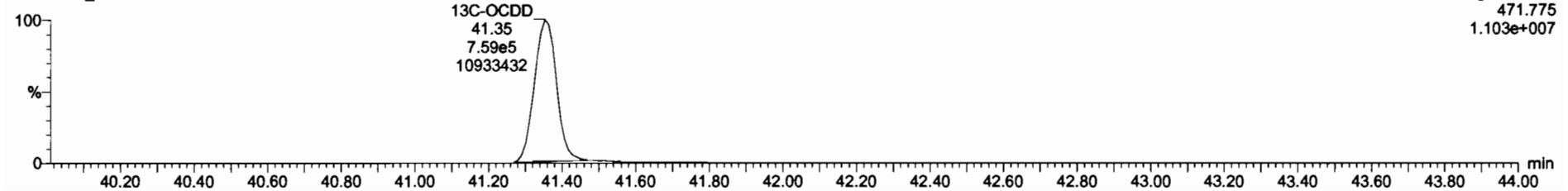


13C-OCDD

200515R1_1



200515R1_1

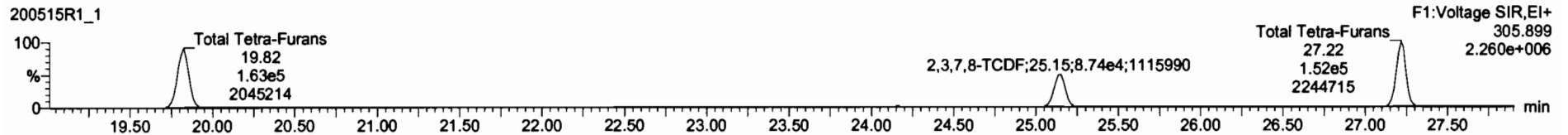


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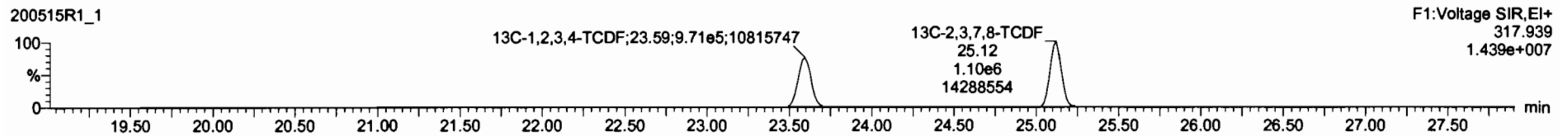
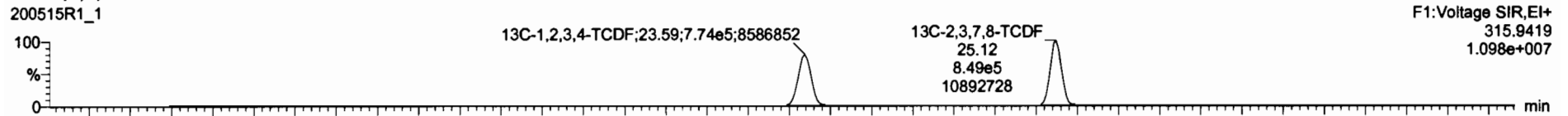
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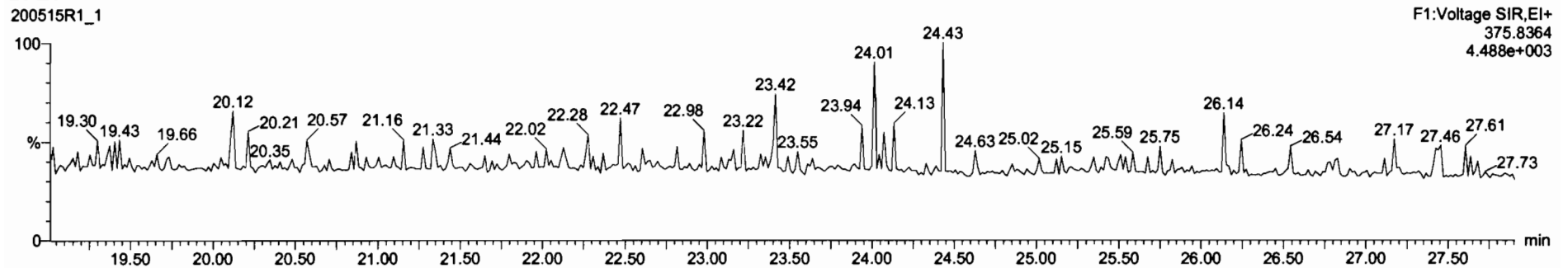
2,3,7,8-TCDF



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



DPE1



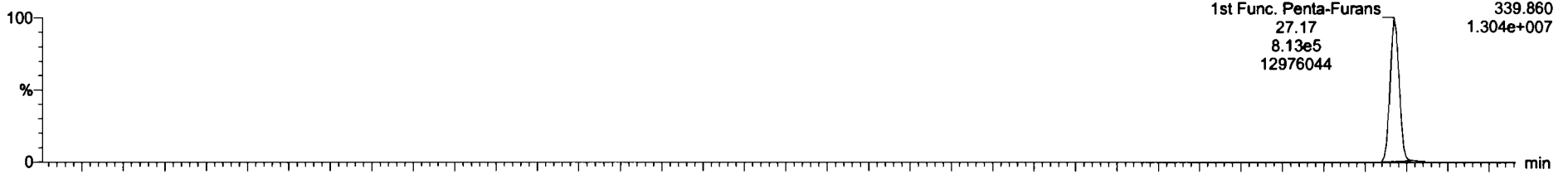
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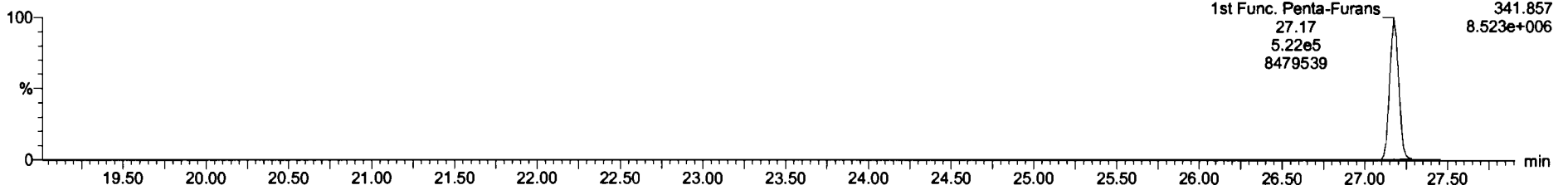
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1st Func. Penta-Furans

200515R1_1

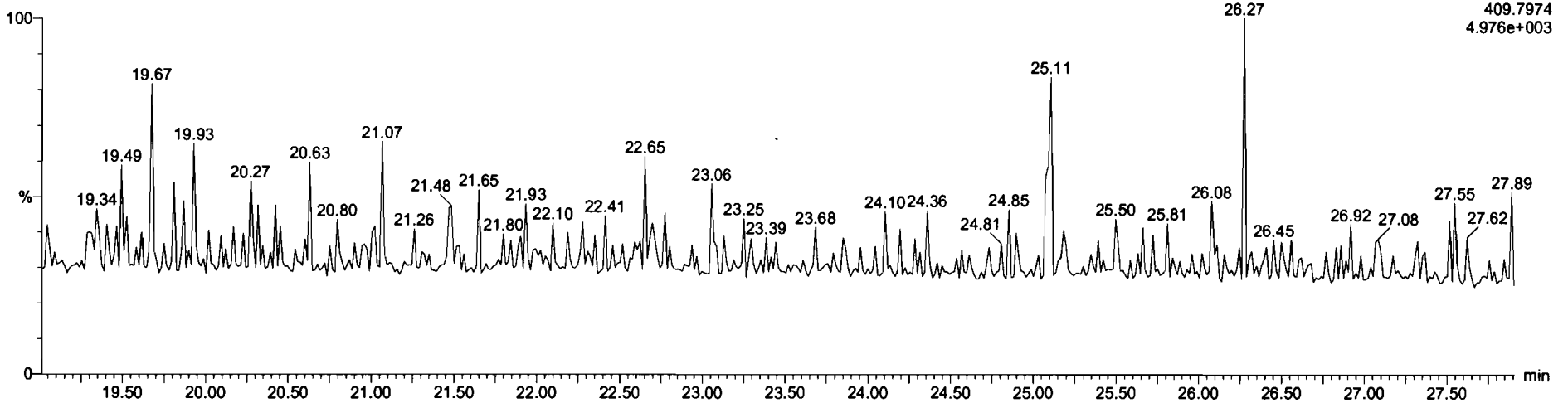


200515R1_1



DPE6

200515R1_1



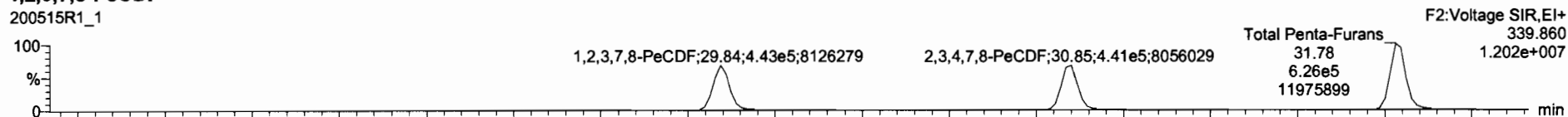
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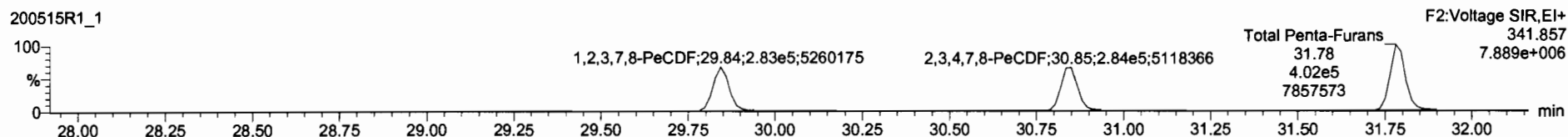
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1,2,3,7,8-PeCDF

200515R1_1

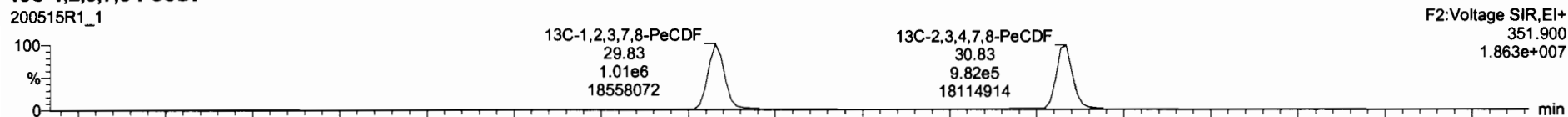


200515R1_1

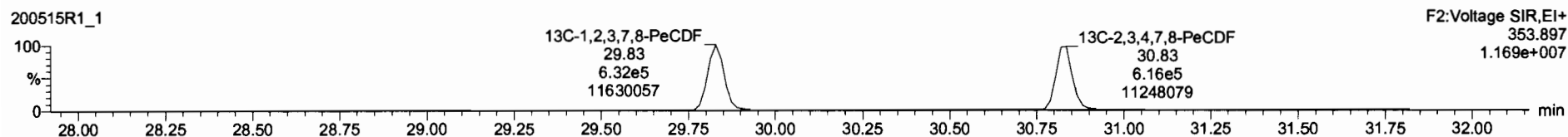


13C-1,2,3,7,8-PeCDF

200515R1_1

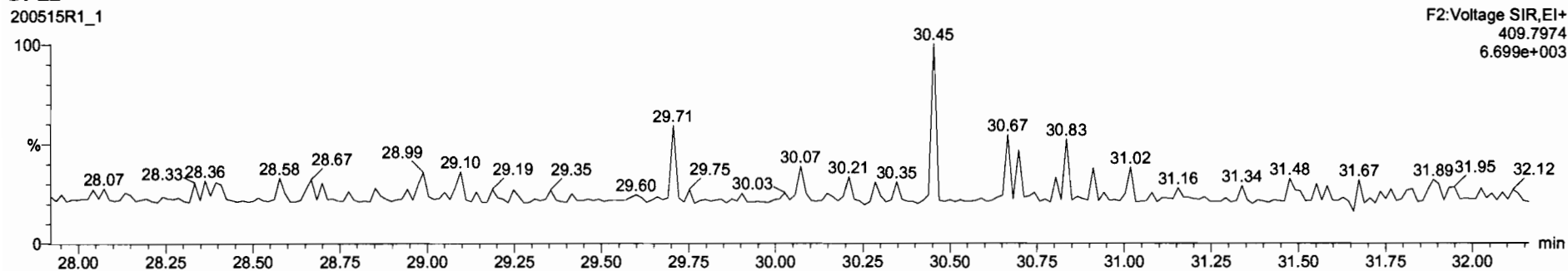


200515R1_1



DPE2

200515R1_1

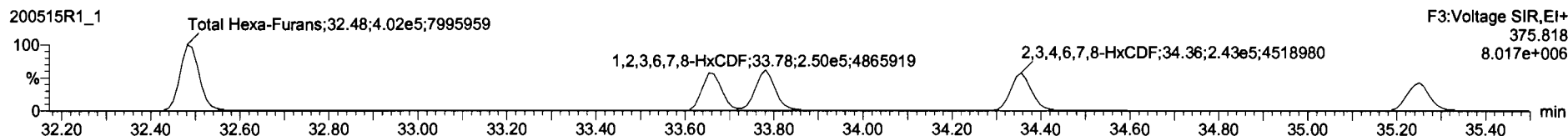
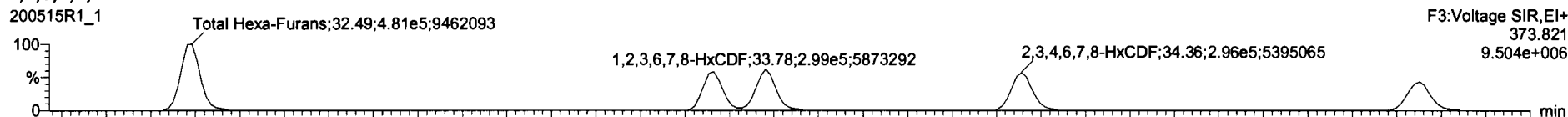


Dataset: Untitled

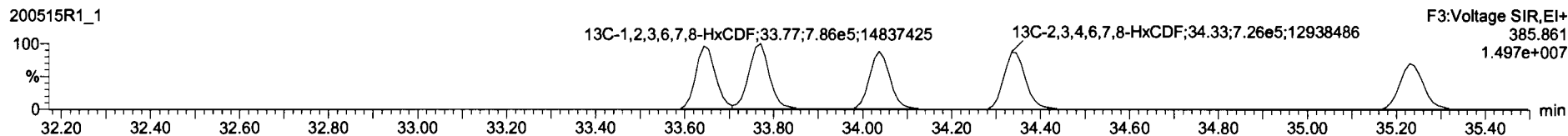
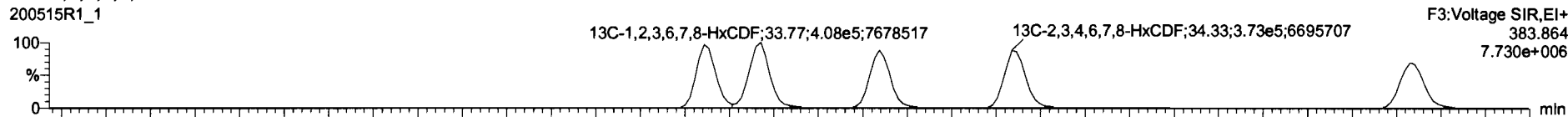
Last Altered: Friday, May 15, 2020 09:08:46 Pacific Daylight Time
Printed: Friday, May 15, 2020 09:08:51 Pacific Daylight Time

Name: 200515R1_1, Date: 15-May-2020, Time: 08:13:47, ID: ST200515R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

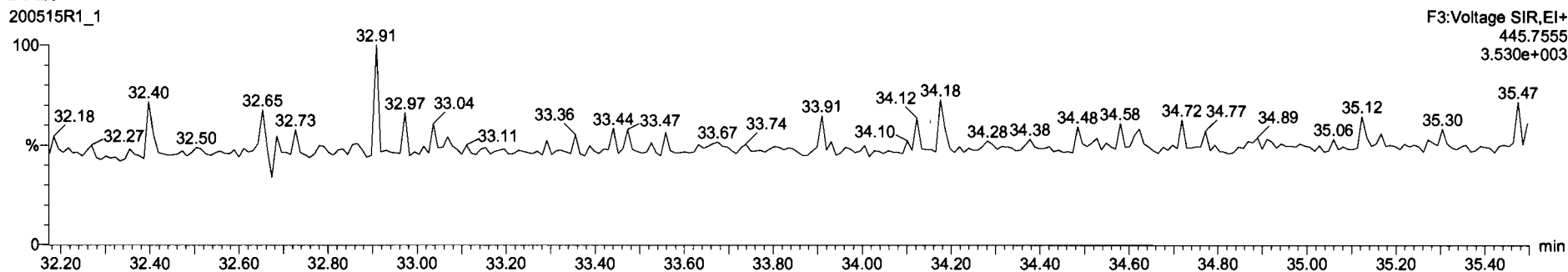
1,2,3,4,7,8-HxCDF



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



DPE3



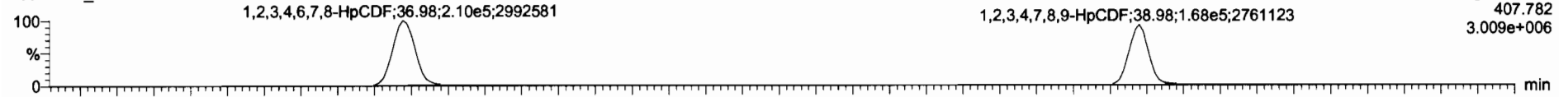
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Last Altered: Friday, May 15, 2020 09:08:46 Pacific Daylight Time
Printed: Friday, May 15, 2020 09:08:51 Pacific Daylight Time

Name: 200515R1_1, Date: 15-May-2020, Time: 08:13:47, ID: ST200515R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

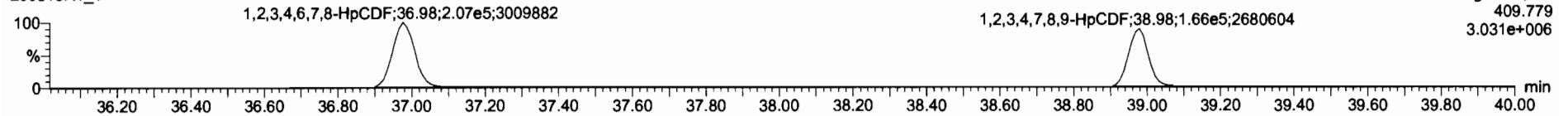
1,2,3,4,6,7,8-HpCDF

200515R1_1



F4:Voltage SIR,EI+
407.782
3.009e+006

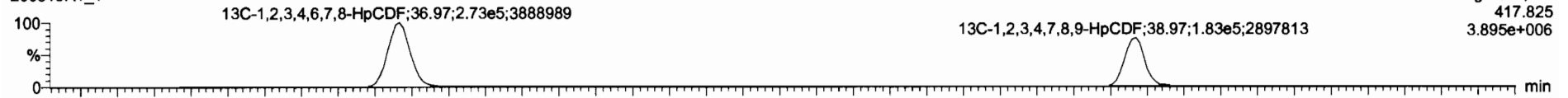
200515R1_1



F4:Voltage SIR,EI+
409.779
3.031e+006

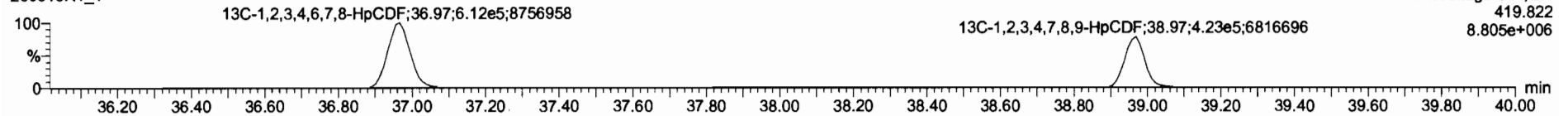
13C-1,2,3,4,6,7,8-HpCDF

200515R1_1



F4:Voltage SIR,EI+
417.825
3.895e+006

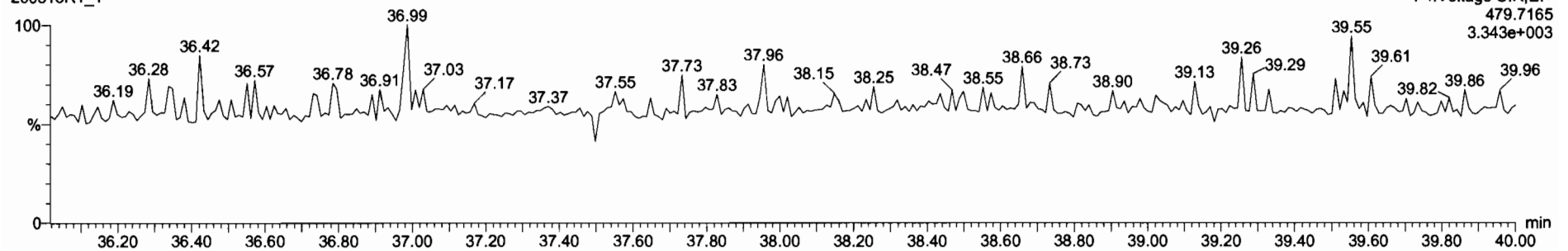
200515R1_1



F4:Voltage SIR,EI+
419.822
8.805e+006

DPE4

200515R1_1

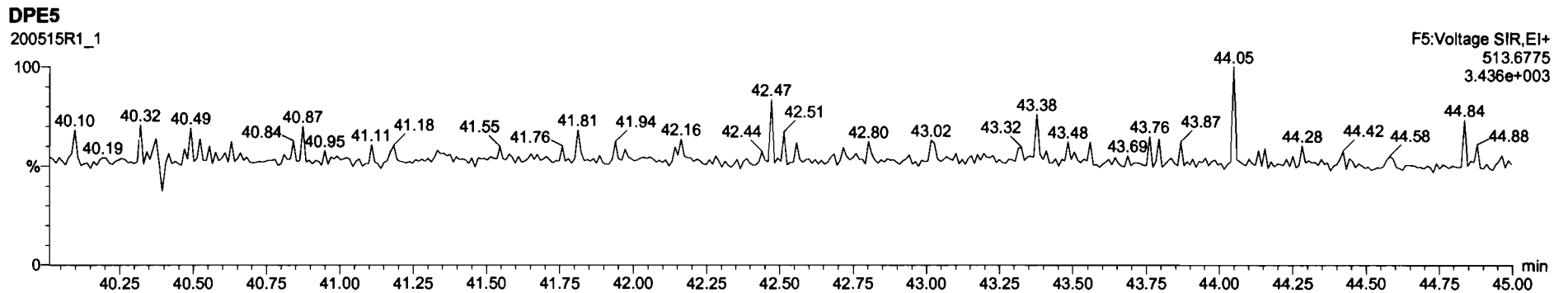
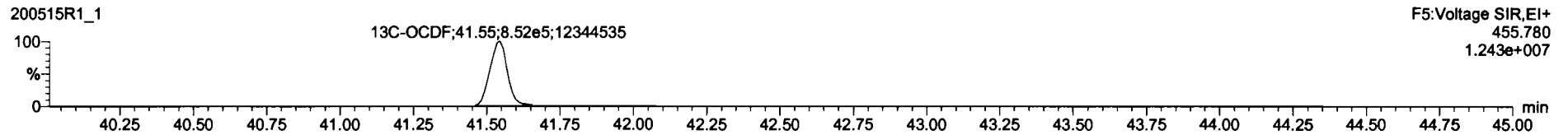
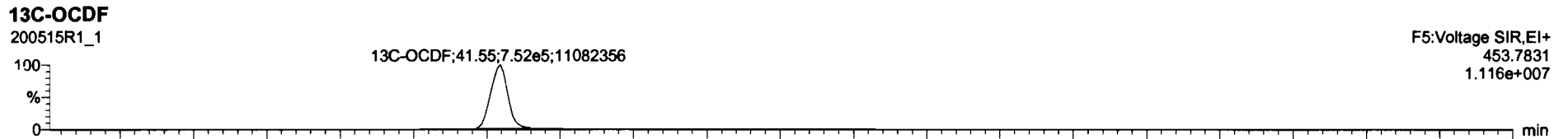
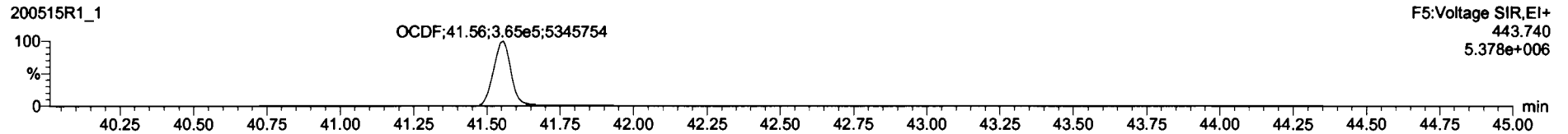
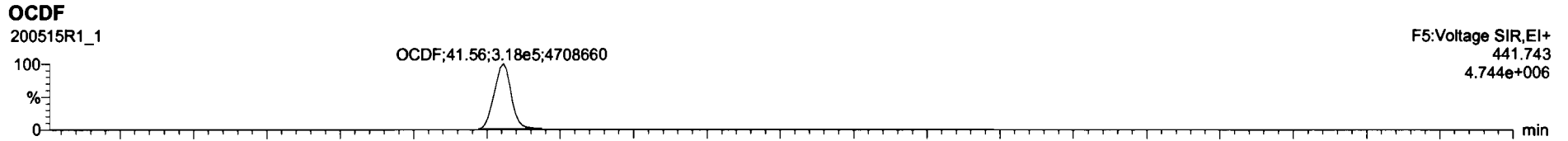


F4:Voltage SIR,EI+
479.7165
3.343e+003

Dataset: Untitled

Last Altered: Friday, May 15, 2020 09:08:46 Pacific Daylight Time
Printed: Friday, May 15, 2020 09:08:51 Pacific Daylight Time

Name: 200515R1_1, Date: 15-May-2020, Time: 08:13:47, ID: ST200515R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



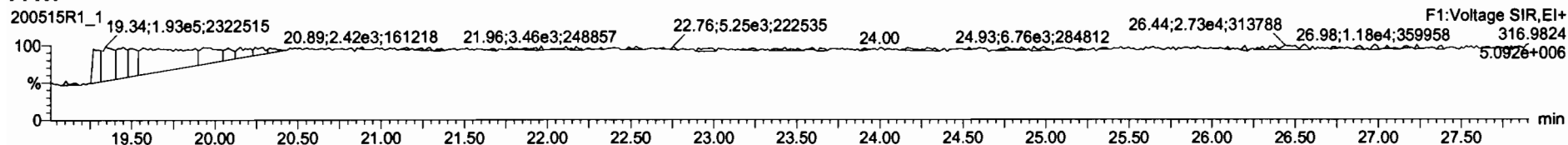
Dataset: Untitled

Last Altered: Friday, May 15, 2020 09:08:46 Pacific Daylight Time

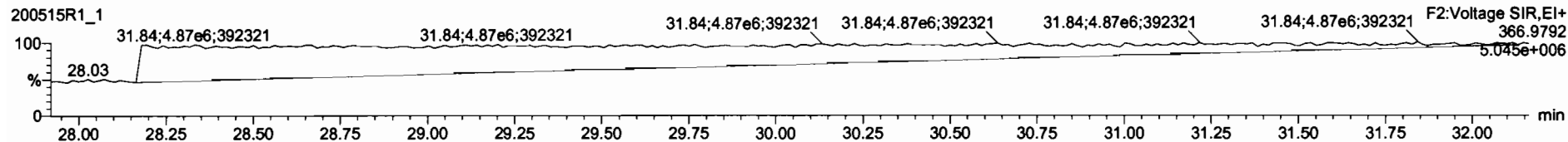
Printed: Friday, May 15, 2020 09:08:51 Pacific Daylight Time

Name: 200515R1_1, Date: 15-May-2020, Time: 08:13:47, ID: ST200515R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

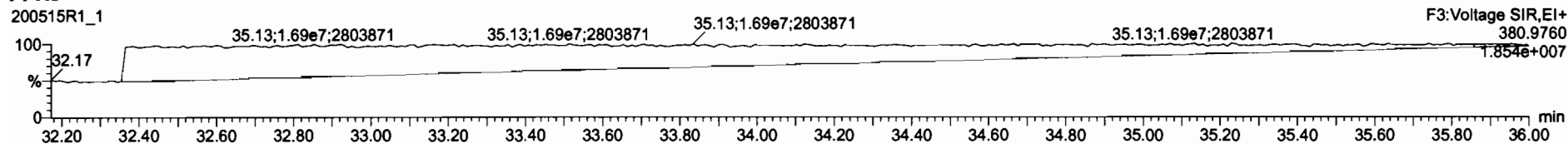
PFK1



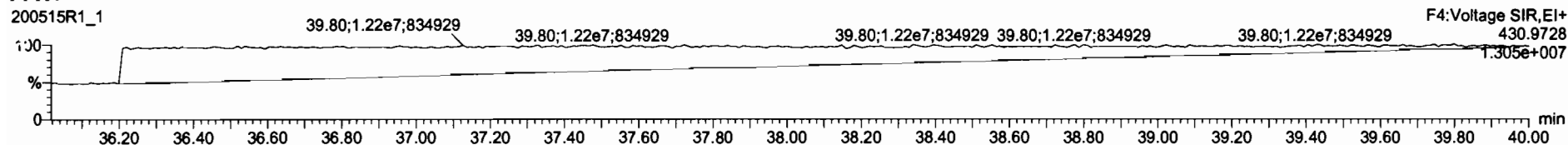
PFK2



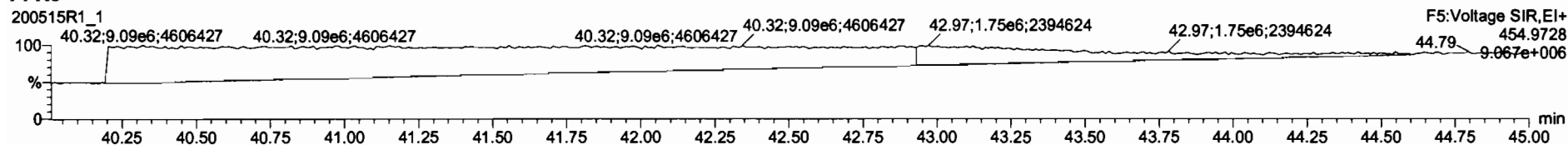
PFK3



PFK4



PFK5



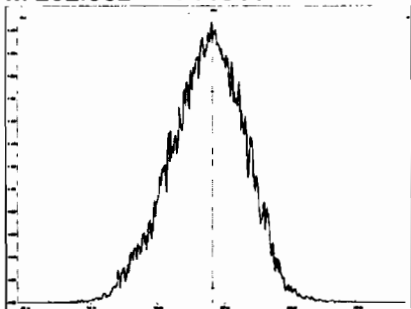
Experiment Calibration Report

MassLynx 4.1 SCN815

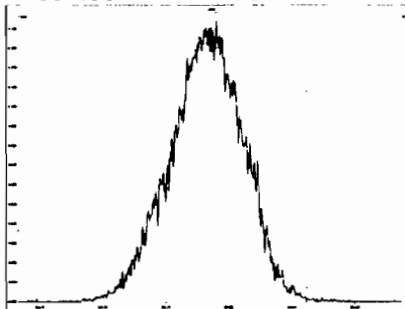
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, May 15, 2020 13:51:37 Pacific Daylight Time

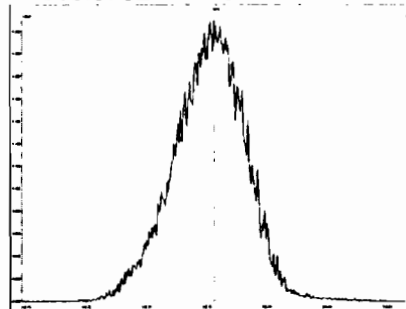
M 292.9824 R 11311



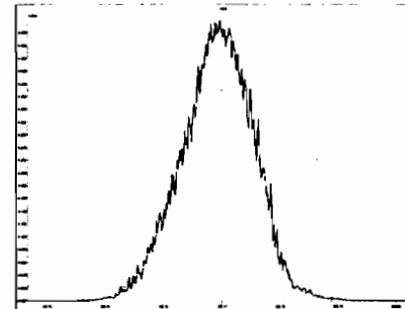
M 304.9824 R 11360



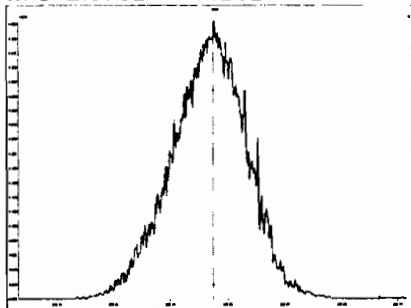
M 318.9792 R 11521



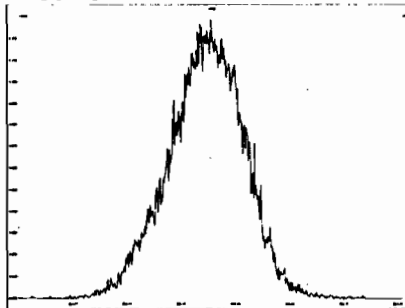
M 330.9792 R 11960



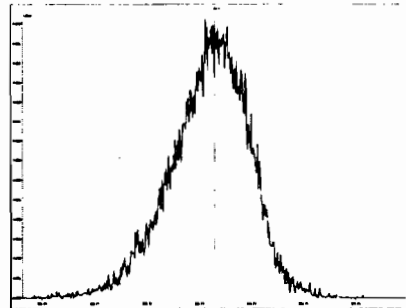
M 342.9792 R 11262



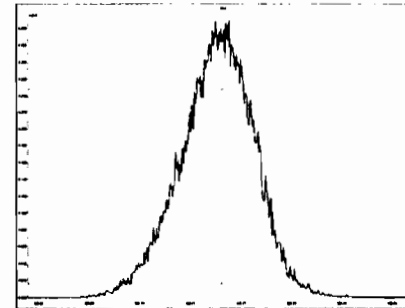
M 354.9792 R 11210



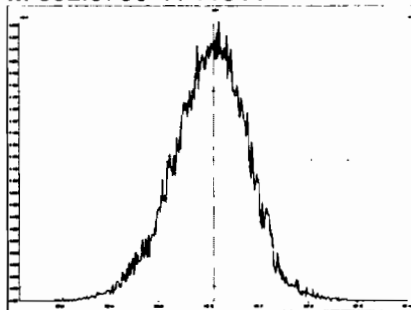
M 366.9792 R 11157



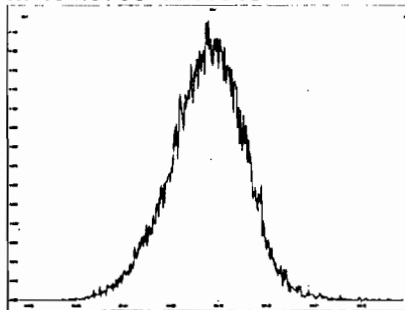
M 380.9760 R 11111



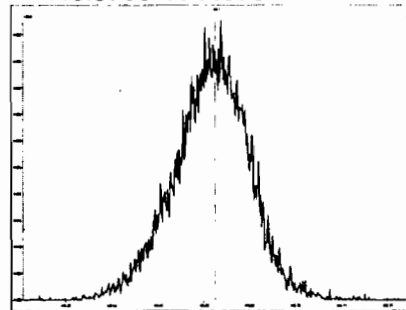
M 392.9760 R 11011



M 404.9760 R 11013



M 416.9760 R 11573



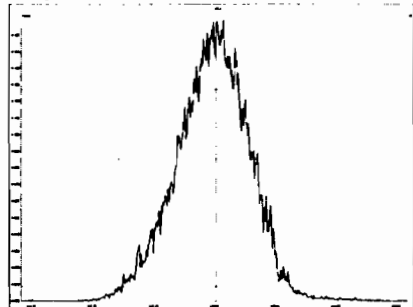
Experiment Calibration Report

MassLynx 4.1 SCN815

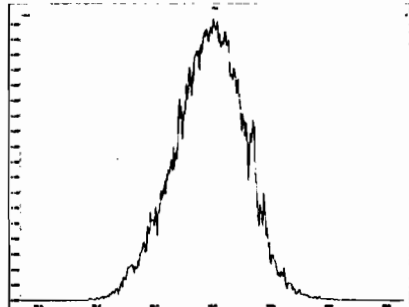
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, May 15, 2020 13:52:21 Pacific Daylight Time

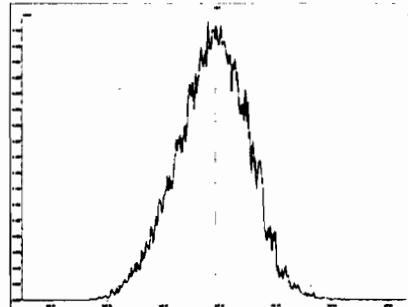
M 318.9792 R 11365



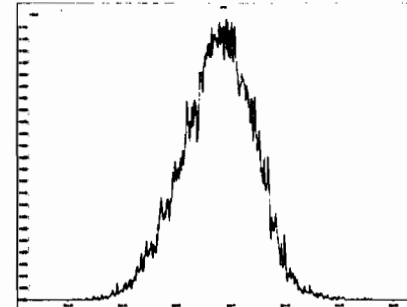
M 330.9792 R 11736



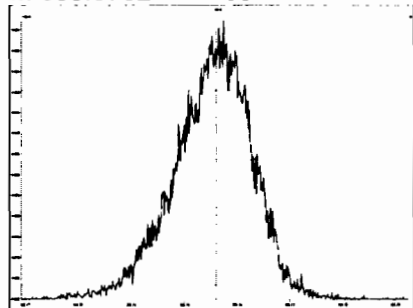
M 342.9792 R 11417



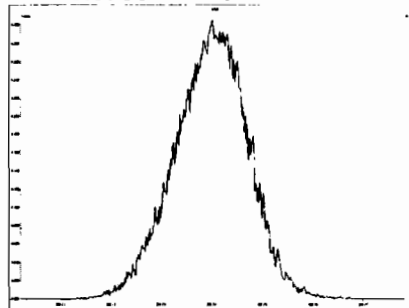
M 354.9792 R 11627



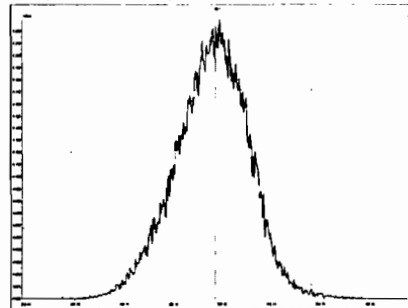
M 366.9792 R 11064



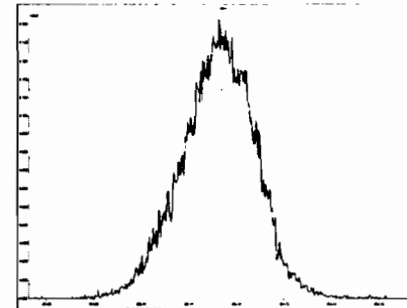
M 380.9760 R 11313



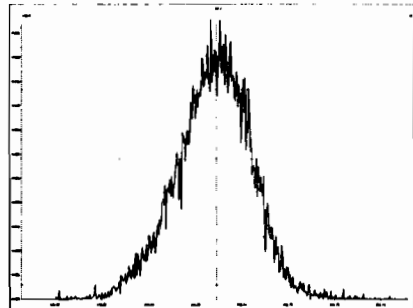
M 392.9760 R 11209



M 404.9760 R 11262



M 416.9760 R 11210



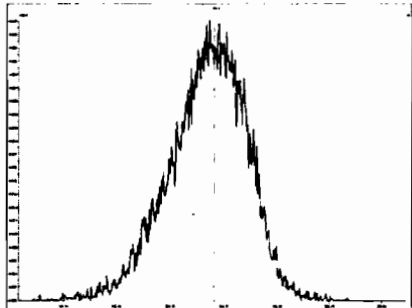
Experiment Calibration Report

MassLynx 4.1 SCN815

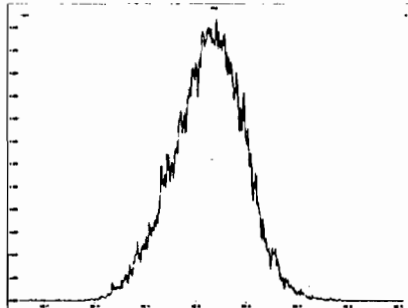
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Printed: Friday, May 15, 2020 13:52:55 Pacific Daylight Time

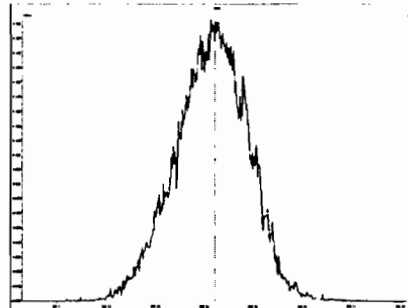
M 366.9792 R 11259



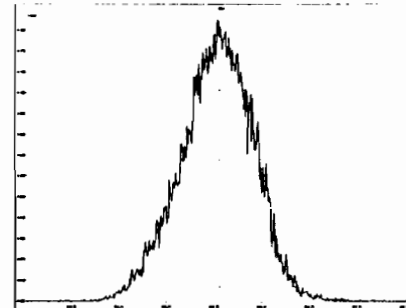
M 380.9760 R 11738



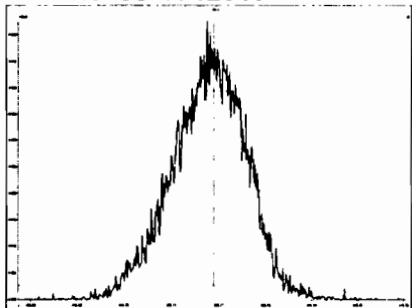
M 392.9760 R 11627



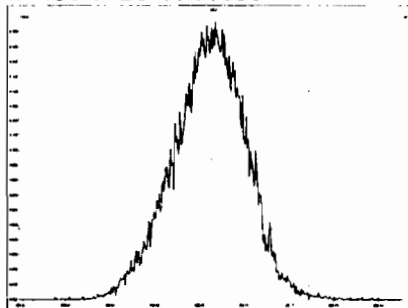
M 404.9760 R 11365



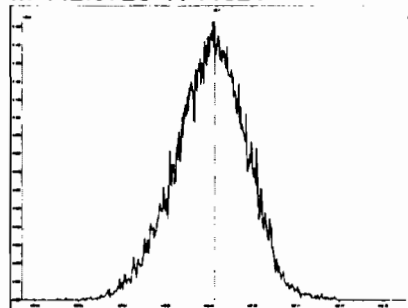
M 416.9760 R 12019



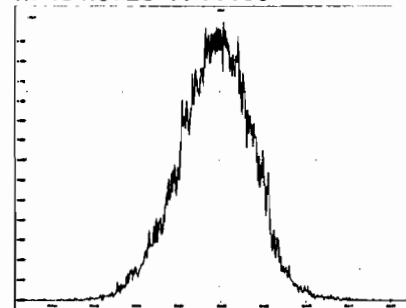
M 430.9728 R 11159



M 442.9728 R 11521



M 454.9728 R 11159



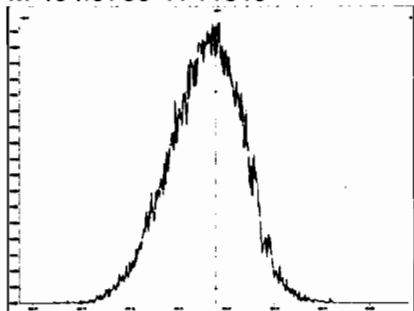
Experiment Calibration Report

MassLynx 4.1 SCN815

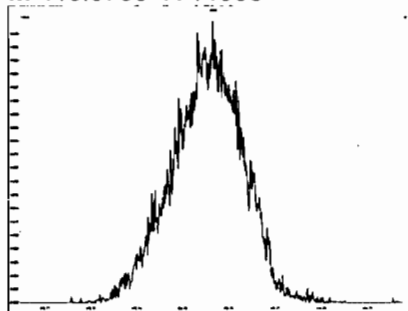
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, May 15, 2020 13:53:21 Pacific Daylight Time

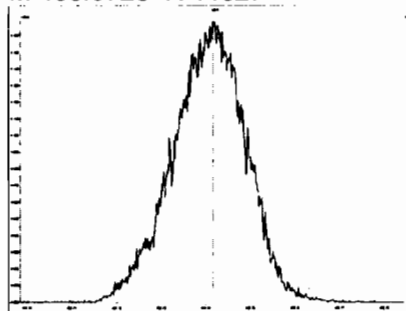
M 404.9760 R 11519



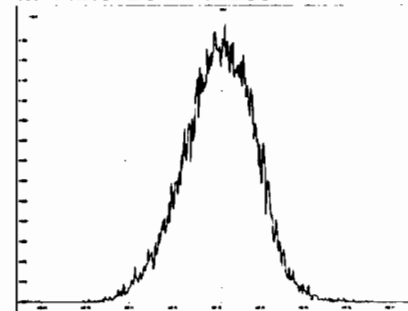
M 416.9760 R 11905



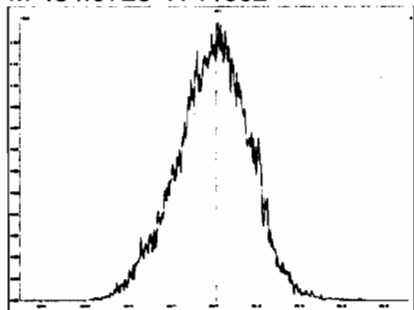
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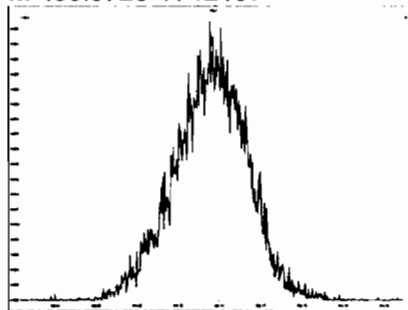
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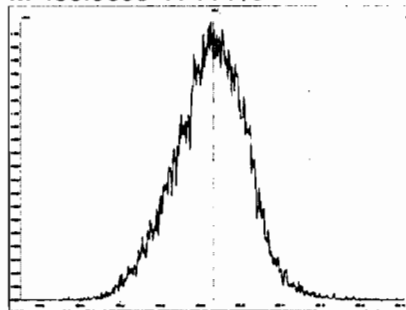
M 454.9728 R 11682



M 466.9728 R 12197



M 480.9696 R 11416



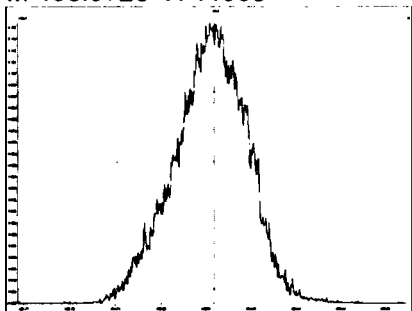
Experiment Calibration Report

MassLynx 4.1 SCN815

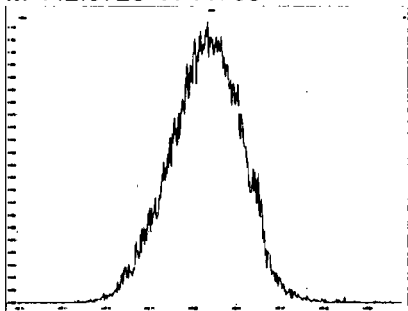
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Printed: Friday, May 15, 2020 13:53:50 Pacific Daylight Time

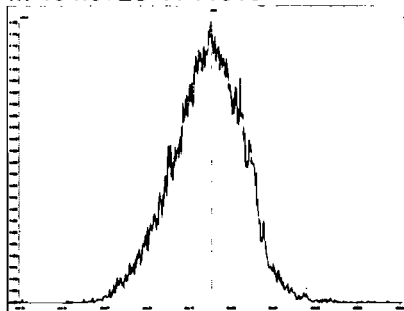
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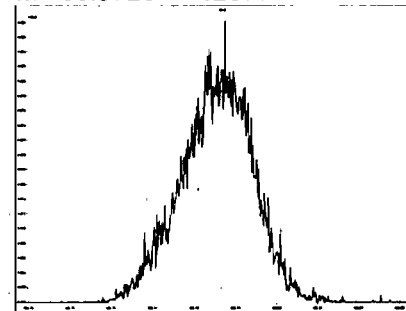
M 442.9728 R 11736



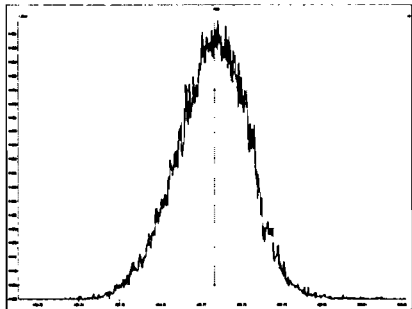
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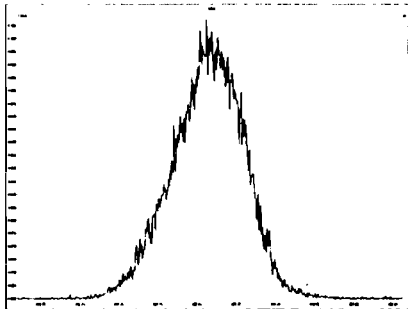
M 466.9728 R 12077



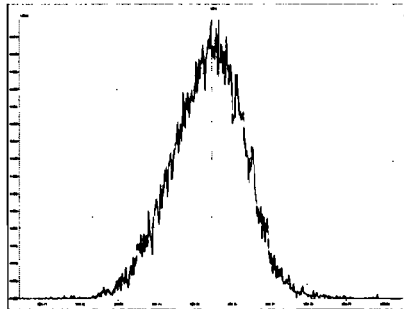
M 480.9696 R 11213



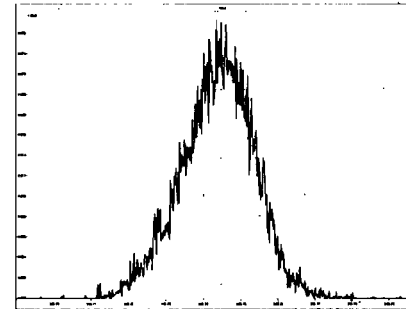
M 492.9696 R 11906



M 504.9696 R 11848



M 516.9697 R 12256



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200516R1-1

Reviewed By: CT 05/18/2020
Initials & Date

End Calibration ID: NA

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

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

Comments:

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-1.qld

Last Altered: Saturday, May 16, 2020 10:02:05 Pacific Daylight Time
Printed: Saturday, May 16, 2020 10:02:29 Pacific Daylight Time

GRB 05/16/2020

C7 05/18/2020

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: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_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	1.53e5	1.75e6	0.75	NO	0.947	26.08	26.08	NO	1.001	1.001	9.2283	92.3	NO
2	2 1,2,3,7,8-PeCDD	5.83e5	1.36e6	0.62	NO	0.942	31.16	31.16	NO	1.001	1.000	45.440	90.9	NO
3	3 1,2,3,4,7,8-HxCDD	4.84e5	9.39e5	1.24	NO	1.06	34.53	34.54	NO	1.000	1.001	48.449	96.9	NO
4	4 1,2,3,6,7,8-HxCDD	5.93e5	1.27e6	1.31	NO	0.915	34.62	34.63	NO	1.000	1.000	51.116	102	NO
5	5 1,2,3,7,8,9-HxCDD	4.78e5	1.06e6	1.32	NO	0.915	34.91	34.91	NO	1.000	1.000	49.075	98.2	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.40e5	7.73e5	1.01	NO	0.898	38.40	38.41	NO	1.000	1.001	49.046	98.1	NO
7	7 OCDD	6.89e5	1.43e6	0.89	NO	0.933	41.39	41.40	NO	1.000	1.000	102.95	103	NO
8	8 2,3,7,8-TCDF	1.80e5	2.32e6	0.74	NO	0.787	25.15	25.14	NO	1.001	1.001	9.8786	98.8	NO
9	9 1,2,3,7,8-PeCDF	8.79e5	1.95e6	1.56	NO	0.910	29.85	29.84	NO	1.001	1.001	49.626	99.3	NO
10	10 2,3,4,7,8-PeCDF	9.15e5	1.97e6	1.55	NO	0.966	30.87	30.85	NO	1.001	1.000	48.000	96.0	NO
11	11 1,2,3,4,7,8-HxCDF	5.80e5	1.26e6	1.22	NO	0.878	33.65	33.66	NO	1.000	1.000	52.433	105	NO
12	12 1,2,3,6,7,8-HxCDF	7.33e5	1.58e6	1.22	NO	0.874	33.78	33.79	NO	1.000	1.001	52.991	106	NO
13	13 2,3,4,6,7,8-HxCDF	6.50e5	1.32e6	1.19	NO	0.922	34.39	34.37	NO	1.001	1.000	53.374	107	NO
14	14 1,2,3,7,8,9-HxCDF	4.75e5	1.04e6	1.22	NO	0.864	35.24	35.26	NO	1.000	1.001	52.870	106	NO
15	15 1,2,3,4,6,7,8-HpCDF	4.59e5	9.60e5	1.02	NO	0.871	37.01	36.99	NO	1.001	1.000	54.839	110	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.40e5	6.08e5	0.99	NO	1.01	38.98	38.99	NO	1.000	1.000	55.240	110	NO
17	17 OCDF	7.50e5	1.79e6	0.88	NO	0.802	41.57	41.58	NO	1.000	1.000	104.32	104	NO
18	18 13C-2,3,7,8-TCDD	1.75e6	1.48e6	0.78	NO	1.16	26.05	26.05	NO	1.026	1.027	102.16	102	NO
19	19 13C-1,2,3,7,8-PeCDD	1.36e6	1.48e6	0.64	NO	0.847	31.14	31.14	NO	1.227	1.227	108.81	109	NO
20	20 13C-1,2,3,4,7,8-HxCDD	9.39e5	1.34e6	1.28	NO	0.750	34.53	34.52	NO	1.014	1.014	93.476	93.5	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.27e6	1.34e6	1.26	NO	0.963	34.64	34.62	NO	1.017	1.017	98.386	98.4	NO
22	22 13C-1,2,3,7,8,9-HxCDD	1.06e6	1.34e6	1.22	NO	0.838	34.91	34.90	NO	1.025	1.025	94.769	94.8	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.73e5	1.34e6	1.04	NO	0.641	38.40	38.39	NO	1.128	1.128	89.894	89.9	NO
24	24 13C-OCDD	1.43e6	1.34e6	0.91	NO	0.586	41.40	41.39	NO	1.216	1.216	182.54	91.3	NO
25	25 13C-2,3,7,8-TCDF	2.32e6	2.19e6	0.78	NO	1.03	25.10	25.12	NO	0.989	0.990	102.48	102	NO
26	26 13C-1,2,3,7,8-PeCDF	1.95e6	2.19e6	1.56	NO	0.845	29.83	29.83	NO	1.176	1.175	105.23	105	NO
27	27 13C-2,3,4,7,8-PeCDF	1.97e6	2.19e6	1.57	NO	0.814	30.82	30.83	NO	1.215	1.215	110.76	111	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.26e6	1.34e6	0.51	NO	1.00	33.67	33.65	NO	0.989	0.988	93.535	93.5	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.58e6	1.34e6	0.51	NO	1.14	33.79	33.77	NO	0.992	0.992	103.94	104	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.32e6	1.34e6	0.51	NO	1.02	34.36	34.36	NO	1.009	1.009	96.459	96.5	NO
31	31 13C-1,2,3,7,8,9-HxCDF	1.04e6	1.34e6	0.51	NO	0.845	35.25	35.24	NO	1.035	1.035	91.941	91.9	NO

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-1.qld

Last Altered: Saturday, May 16, 2020 10:02:05 Pacific Daylight Time
Printed: Saturday, May 16, 2020 10:02:29 Pacific Daylight Time

Name: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	13C-1,2,3,4,6,7,8-HpCDF	9.60e5	1.34e6	0.43	NO	0.771	36.98	36.98	NO	1.086	1.086	92.930	92.9	NO
33	13C-1,2,3,4,7,8,9-HpCDF	6.08e5	1.34e6	0.43	NO	0.482	38.99	38.98	NO	1.145	1.145	94.137	94.1	NO
34	13C-OCDF	1.79e6	1.34e6	0.88	NO	0.669	41.57	41.57	NO	1.221	1.221	200.05	100	NO
35	37Cl-2,3,7,8-TCDD	1.62e5	1.48e6			1.10	26.08	26.06	NO	1.028	1.027	10.021	100	NO
36	13C-1,2,3,4-TCDD	1.48e6	1.48e6	0.80	NO	1.00	25.35	25.38	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	2.19e6	2.19e6	0.79	NO	1.00	23.56	23.59	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	1.34e6	1.34e6	0.51	NO	1.00	34.00	34.05	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Dataset: Untitled

Last Altered: Monday, May 18, 2020 07:30:52 Pacific Daylight Time

Printed: Monday, May 18, 2020 07:31:50 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	200516R1_1	ST200516R1_1 1613 CS3 19L2305	16-May-20	09:10:37
2	200516R1_2	SOLVENT BLANK	16-May-20	09:57:46
3	200516R1_3	2000946-01 PDI-162SC-A-00-01-200424 19.45	16-May-20	10:44:33
4	200516R1_4	2000946-02 PDI-162SC-A-02-03-200424 19.14	16-May-20	11:30:44
5	200516R1_5	2000946-03 PDI-162SC-A-03-04-200424 13.48	16-May-20	12:16:55
6	200516R1_6	2000946-04 PDI-162SC-A-04-05-200424 11.77	16-May-20	13:03:05
7	200516R1_7	2000946-05 PDI-162SC-A-05-06-200424 11.48	16-May-20	13:49:17
8	200516R1_8	2000946-06 PDI-162SC-A-06-07-200424 11.93	16-May-20	14:35:29
9	200516R1_9	2000946-07 PDI-162SC-A-07-08-200424 12.09	16-May-20	15:21:39
10	200516R1_10	2000946-08 PDI-162SC-A-08-09-200424 13.13	16-May-20	16:07:53
11	200516R1_11	2000950-01 PDI-1156SC-A-02-03-200423 12.74	16-May-20	16:54:05
12	200516R1_12	2000950-02 PDI-156SC-A-00-01-200423 11.13	16-May-20	17:40:15
13	200516R1_13	2000950-03 PDI-156SC-A-01-02-200423 11.3	16-May-20	18:26:28
14	200516R1_14	B0E0015-DUP1 Duplicate 11.36	16-May-20	19:12:40
15	200516R1_15	2000950-04 PDI-156SC-A-02-03-200423 12.29	16-May-20	19:58:50
16	200516R1_16	2000950-05 PDI-156SC-A-03-04-200423 11.97	16-May-20	20:45:02

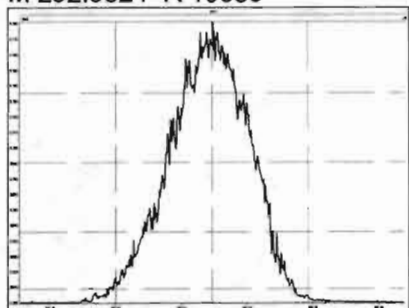
Experiment Calibration Report

MassLynx 4.1 SCN815

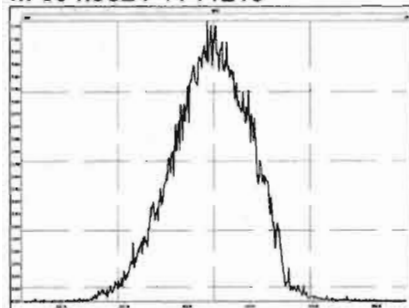
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Saturday, May 16, 2020 09:02:03 Pacific Daylight Time

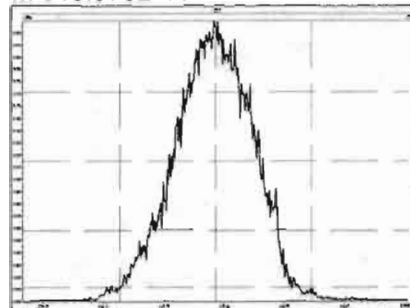
M 292.9824 R 10689



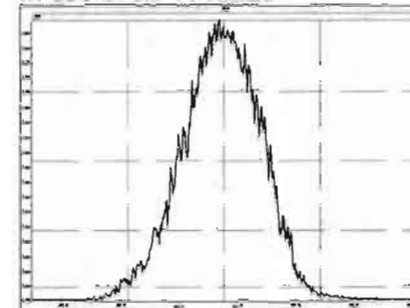
M 304.9824 R 11213



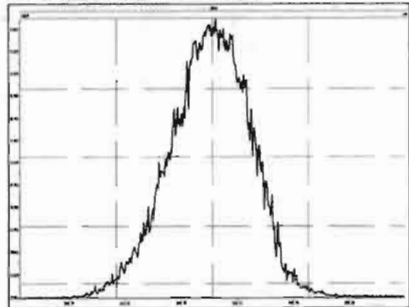
M 318.9792 R 11211



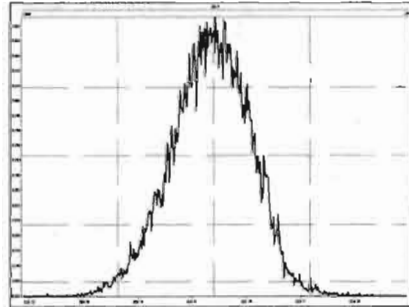
M 330.9792 R 10826



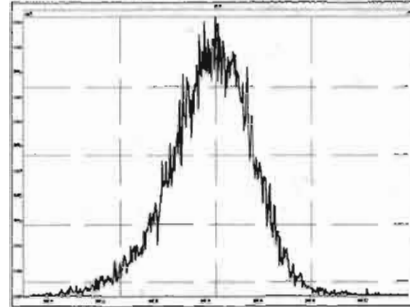
M 342.9792 R 10501



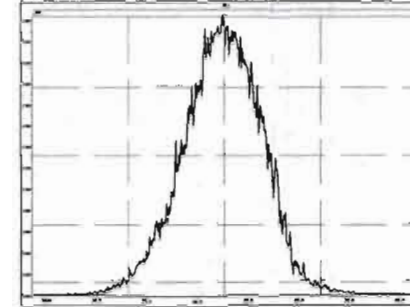
M 354.9792 R 10637



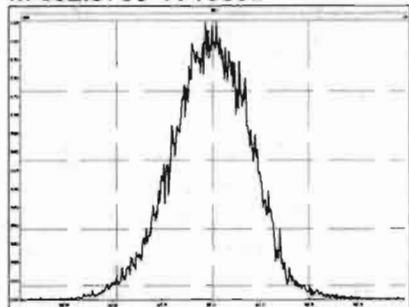
M 366.9792 R 10590



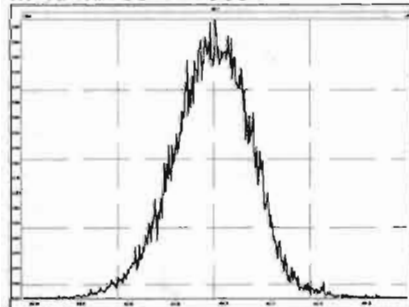
M 380.9760 R 10870



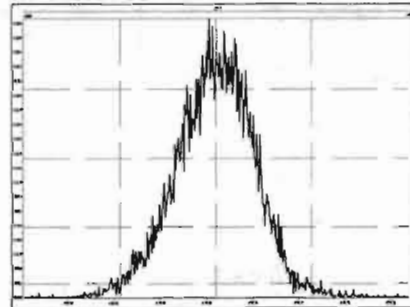
M 392.9760 R 10506



M 404.9760 R 10684



M 416.9760 R 11110



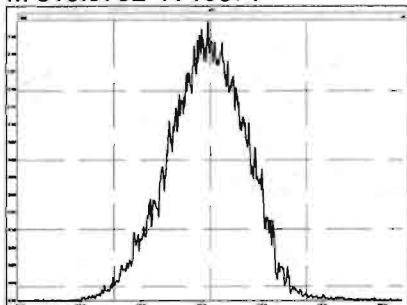
Experiment Calibration Report

MassLynx 4.1 SCN815

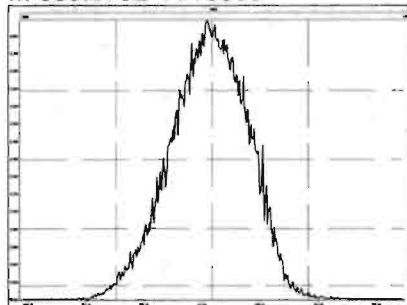
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Saturday, May 16, 2020 09:02:41 Pacific Daylight Time

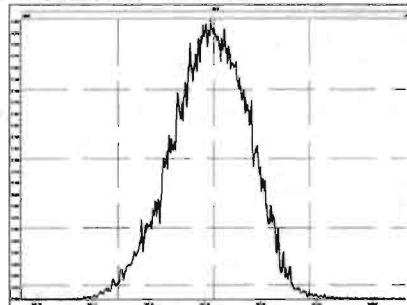
M 318.9792 R 10871



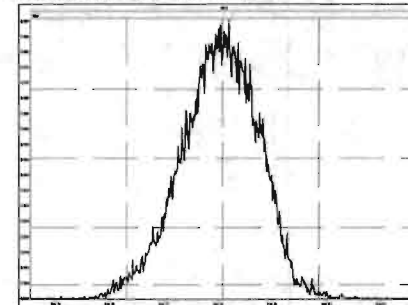
M 330.9792 R 10869



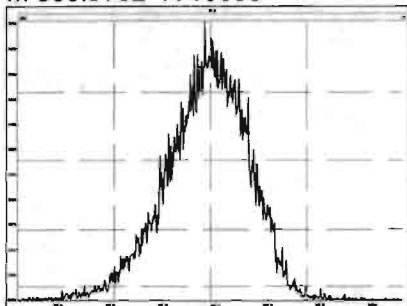
M 342.9792 R 10967



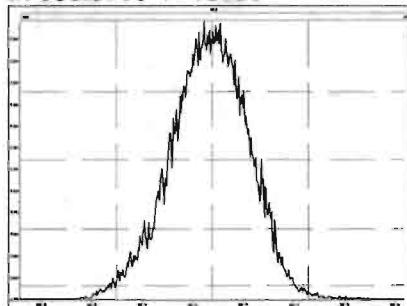
M 354.9792 R 10460



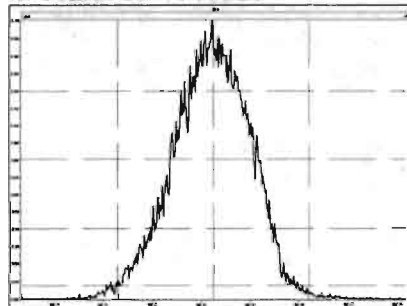
M 366.9792 R 10636



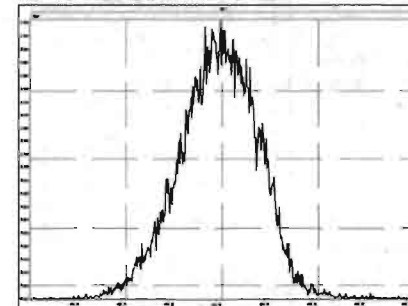
M 380.9760 R 10685



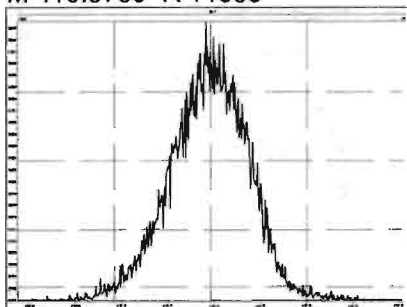
M 392.9760 R 10826



M 404.9760 R 11112



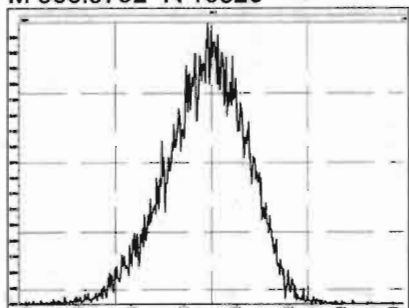
M 416.9760 R 11363



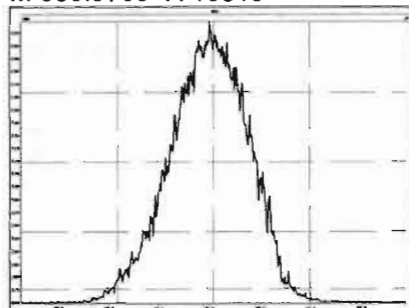
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Printed: Saturday, May 16, 2020 09:03:16 Pacific Daylight Time

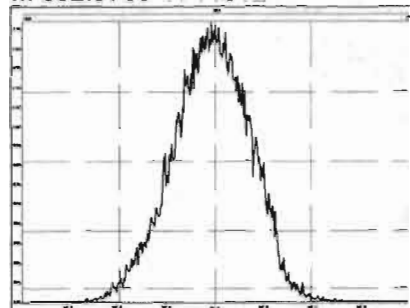
M 366.9792 R 10825



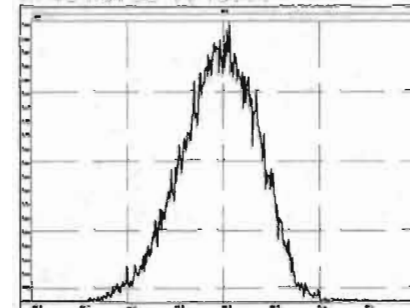
M 380.9760 R 10819



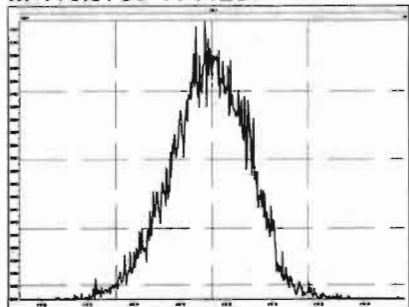
M 392.9760 R 11012



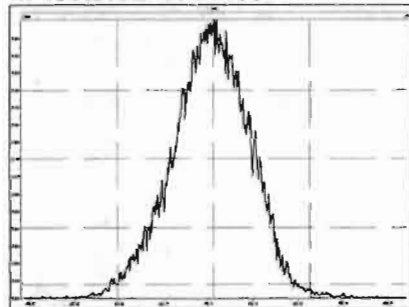
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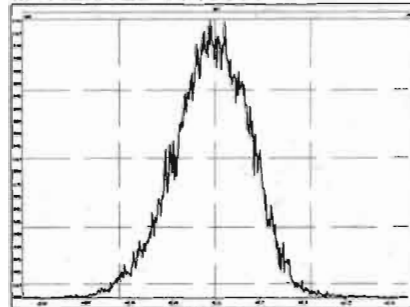
M 416.9760 R 11261



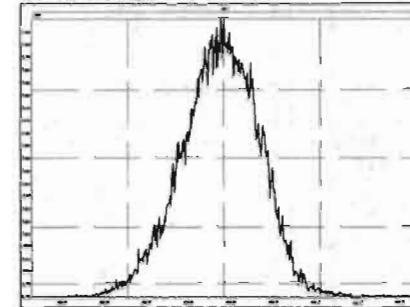
M 430.9728 R 11109



M 442.9728 R 10639



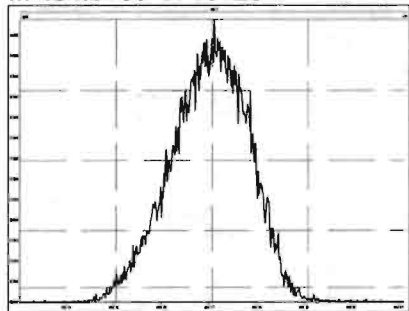
M 454.9728 R 11414



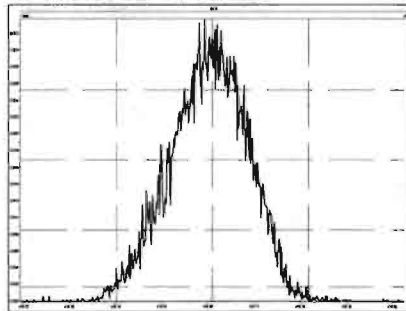
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Printed: Saturday, May 16, 2020 09:03:53 Pacific Daylight Time

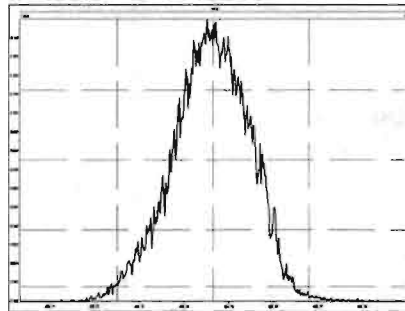
M 404.9760 R 10728



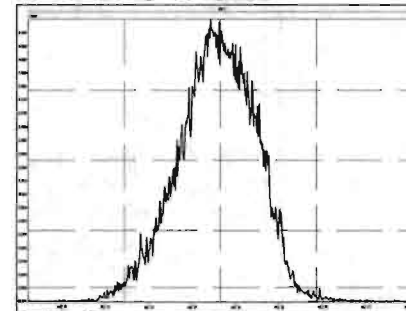
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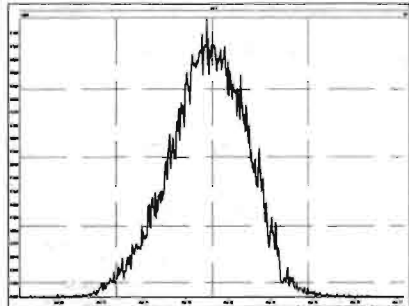
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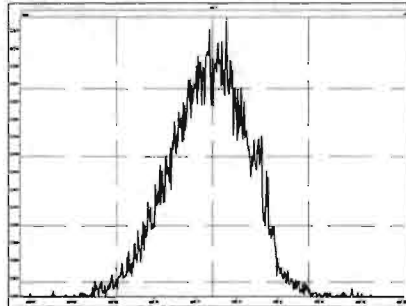
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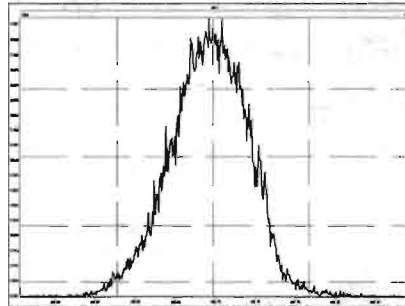
M 454.9728 R 10548



M 466.9728 R 10967



M 480.9696 R 10639



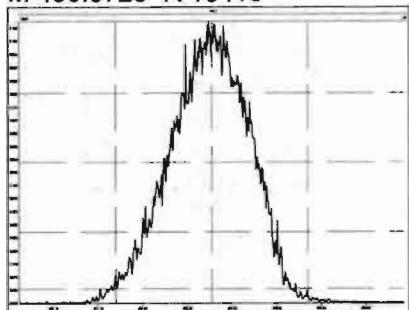
Experiment Calibration Report

MassLynx 4.1 SCN815

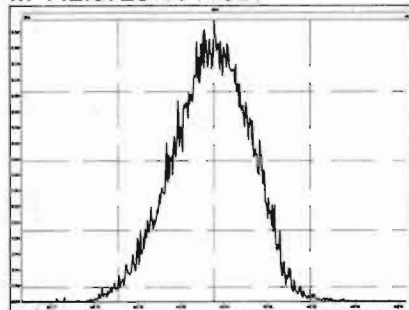
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Saturday, May 16, 2020 09:04:34 Pacific Daylight Time

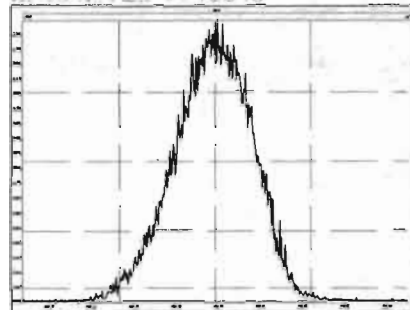
M 430.9728 R 10418



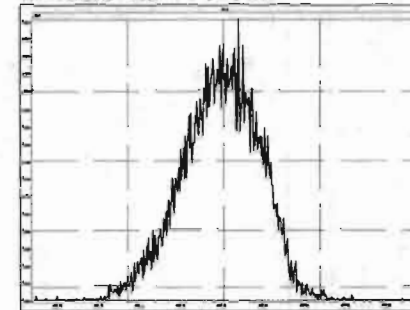
M 442.9728 R 11061



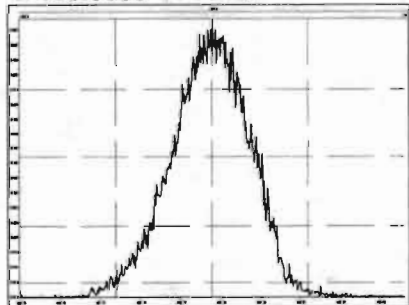
M 454.9728 R 10919



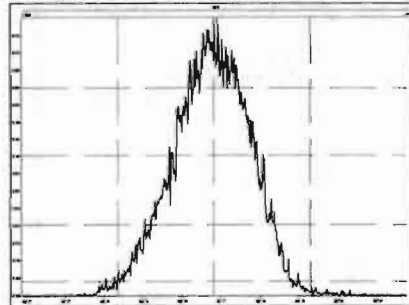
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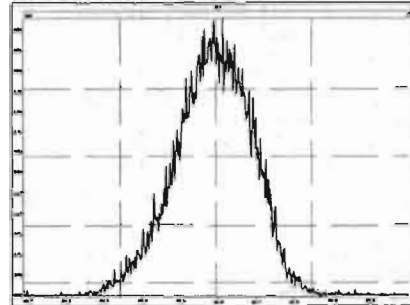
M 480.9696 R 11467



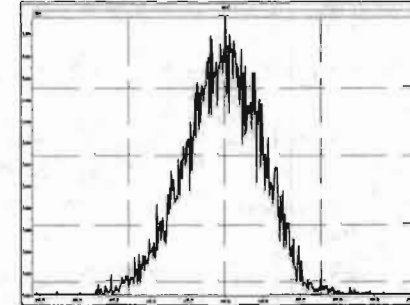
M 492.9696 R 10966



M 504.9696 R 10916



M 516.9697 R 11906



Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Saturday, May 16, 2020 10:02:46 Pacific Daylight Time

Printed: Saturday, May 16, 2020 10:03:05 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: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	21.90
2	1,2,8,9-TCDD (Last)	27.07
3	1,2,4,7,9-PeCDD (First)	28.90
4	1,2,3,8,9-PeCDD (Last)	31.54
5	1,2,4,6,7,9-HxCDD (First)	33.05
6	1,2,3,7,8,9-HxCDD (Last)	34.91
7	1,2,3,4,6,7,9-HpCDD (First)	37.38
8	1,2,3,4,6,7,8-HpCDD (Last)	38.41
9	1,3,6,8-TCDF (First)	19.82
10	1,2,8,9-TCDF (Last)	27.22
11	1,3,4,6,8-PeCDF (First)	27.17
12	1,2,3,8,9-PeCDF (Last)	31.78
13	1,2,3,4,6,8-HxCDF (First)	32.49
14	1,2,3,7,8,9-HxCDF (Last)	35.26
15	1,2,3,4,6,7,8-HpCDF (First)	36.99
16	1,2,3,4,7,8,9-HpCDF (Last)	38.99

Vista Analytical Laboratory VG-11

Dataset: Untitled

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GRB 05/16/2020

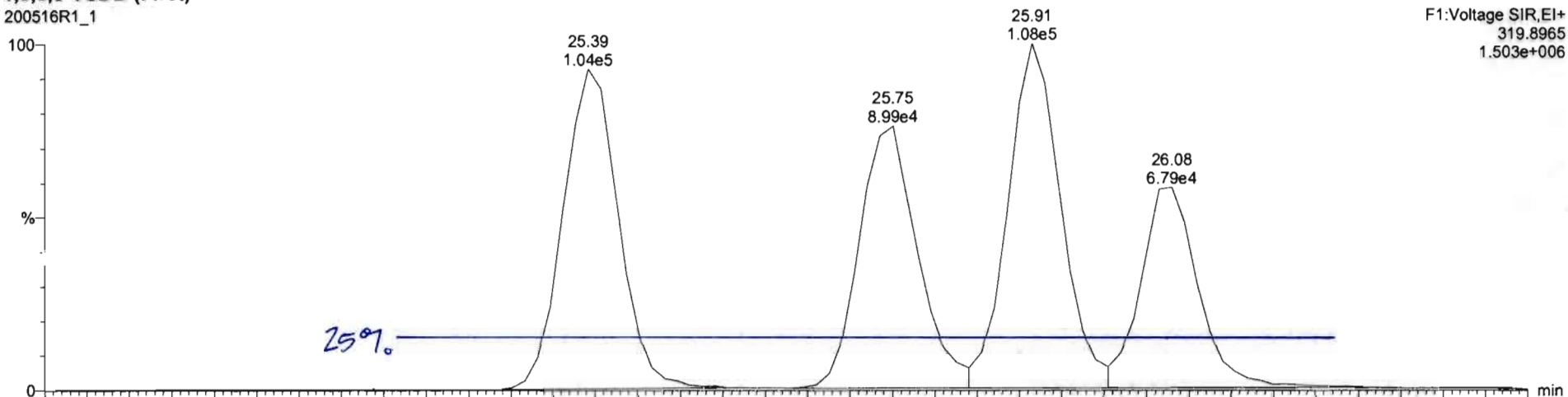
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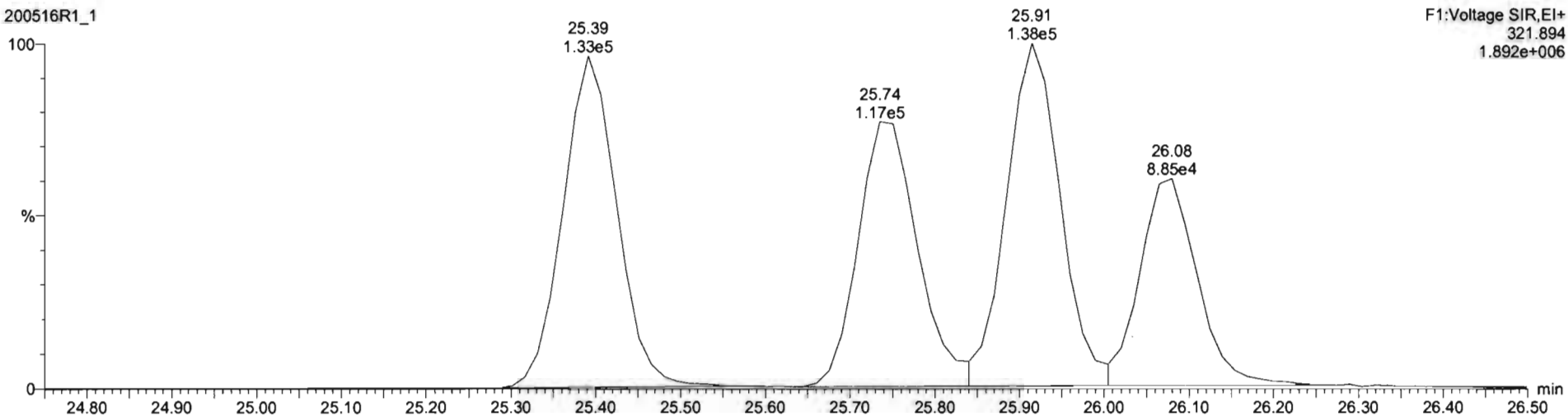
Name: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200516R1_1



200516R1_1



Dataset: Untitled

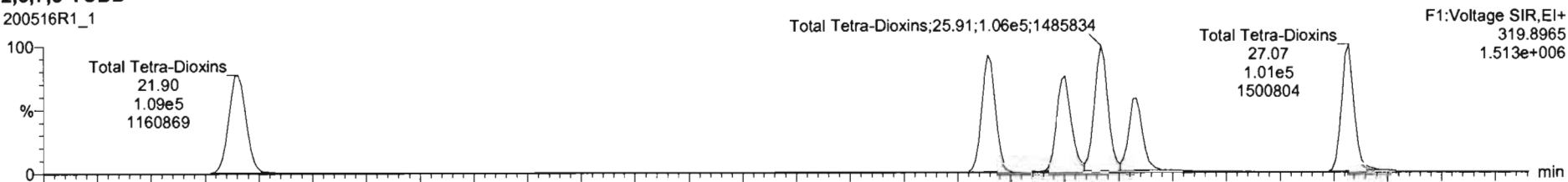
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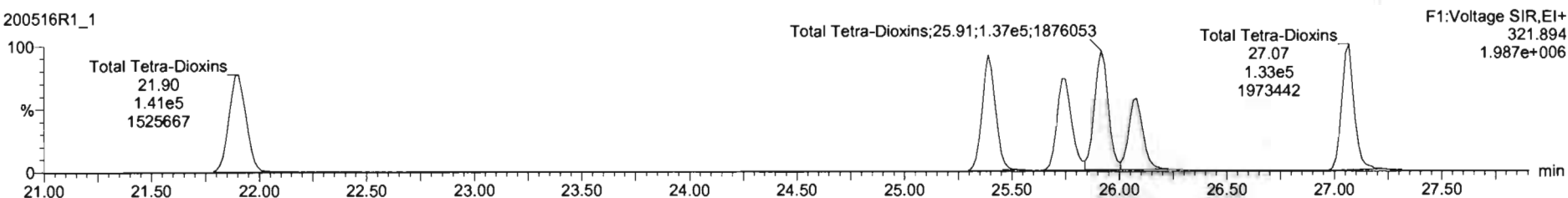
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2,3,7,8-TCDD

200516R1_1

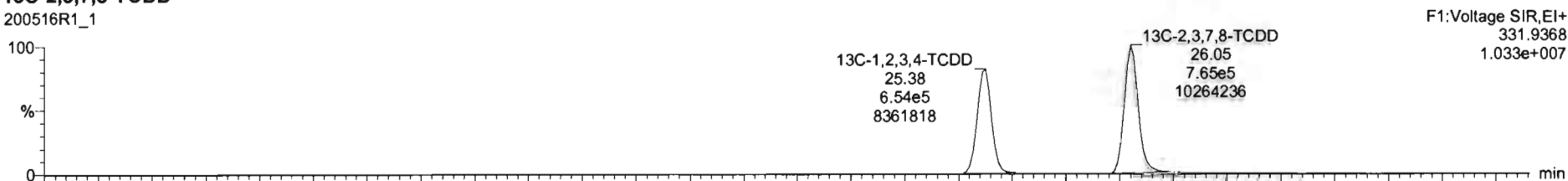


200516R1_1

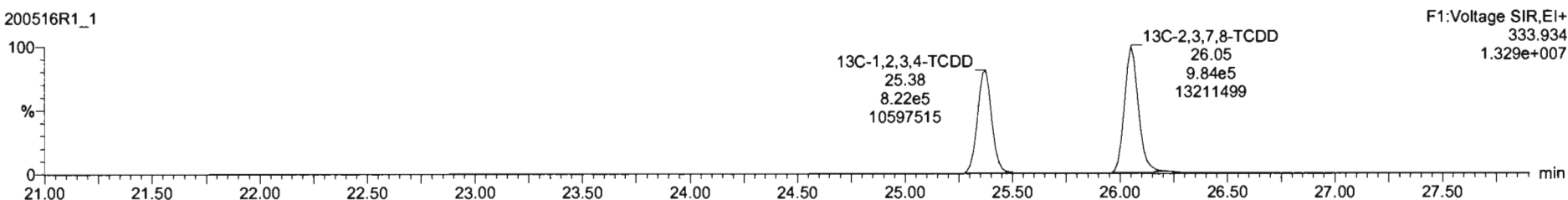


13C-2,3,7,8-TCDD

200516R1_1



200516R1_1



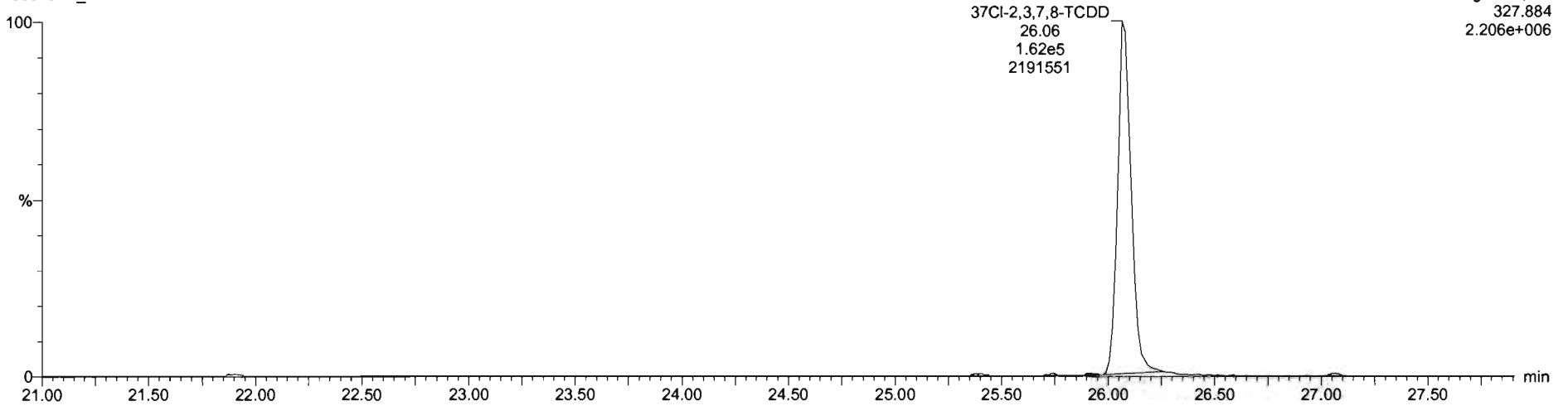
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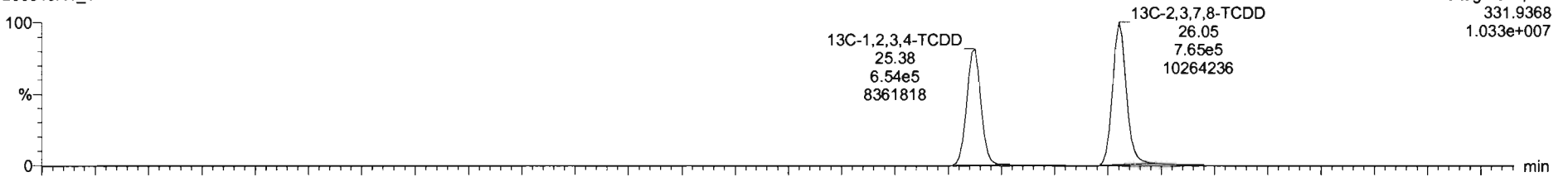
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200516R1_1

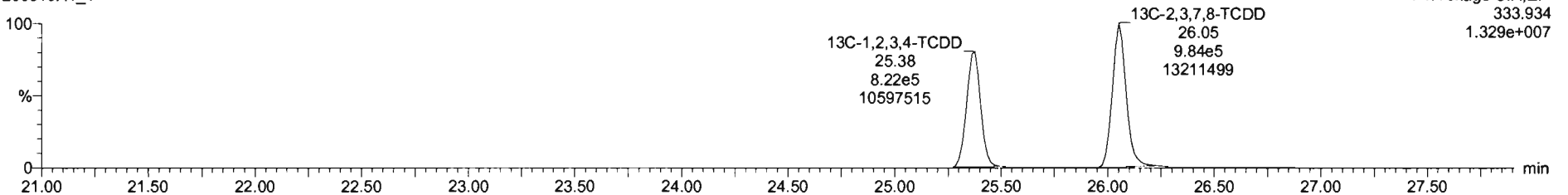


13C-1,2,3,4-TCDD

200516R1_1



200516R1_1



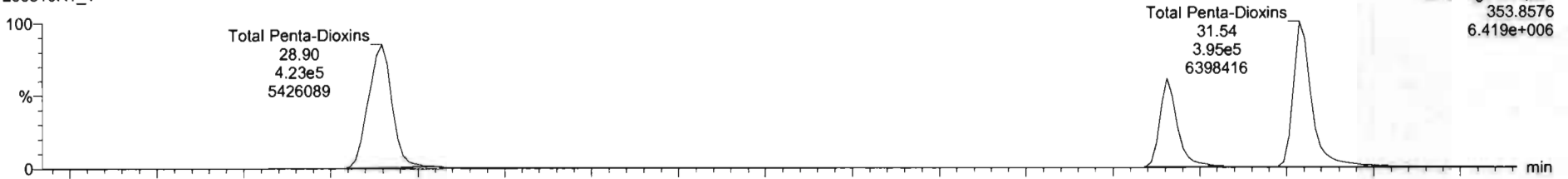
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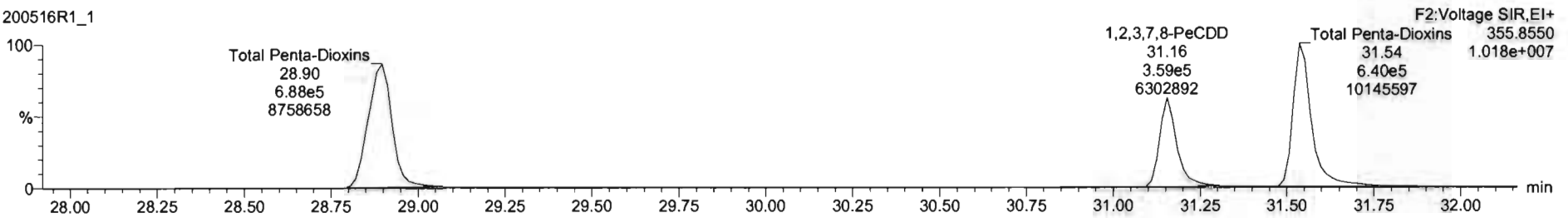
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1,2,3,7,8-PeCDD

200516R1_1

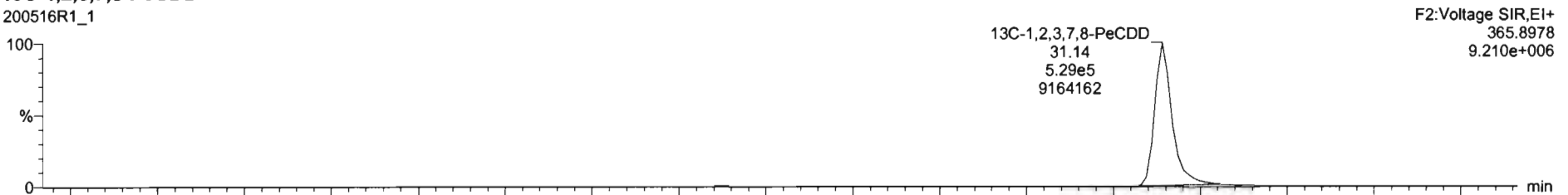


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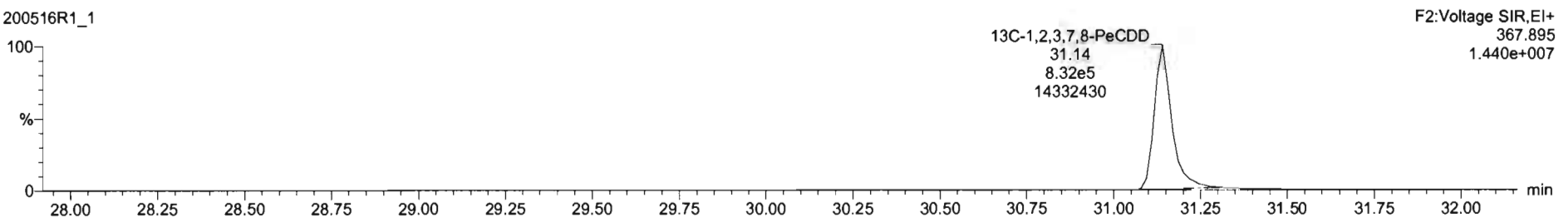


13C-1,2,3,7,8-PeCDD

200516R1_1



200516R1_1



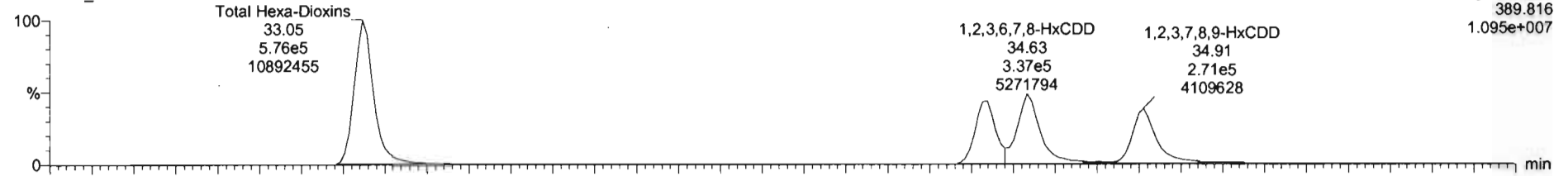
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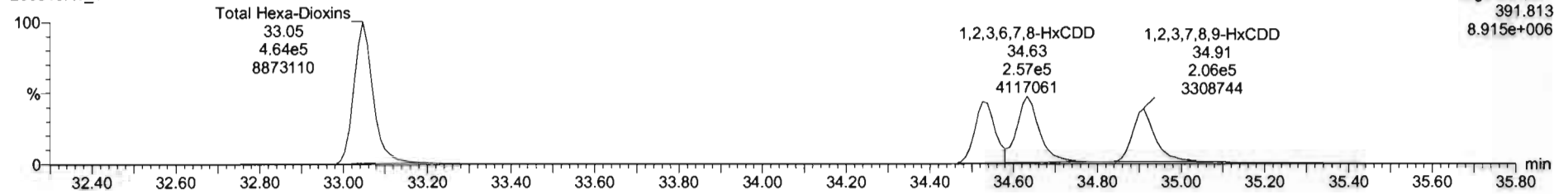
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1,2,3,4,7,8-HxCDD

200516R1_1

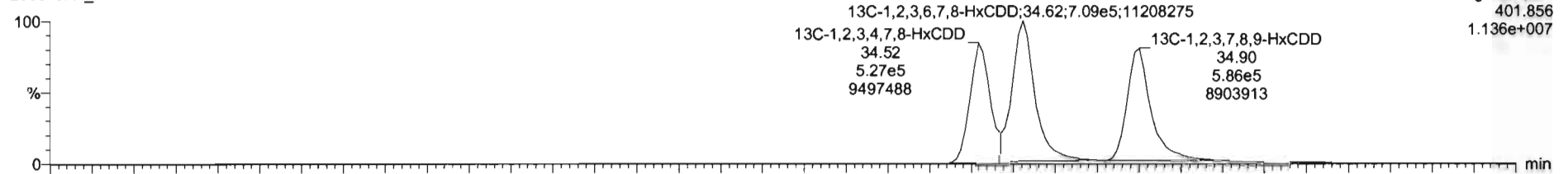


200516R1_1

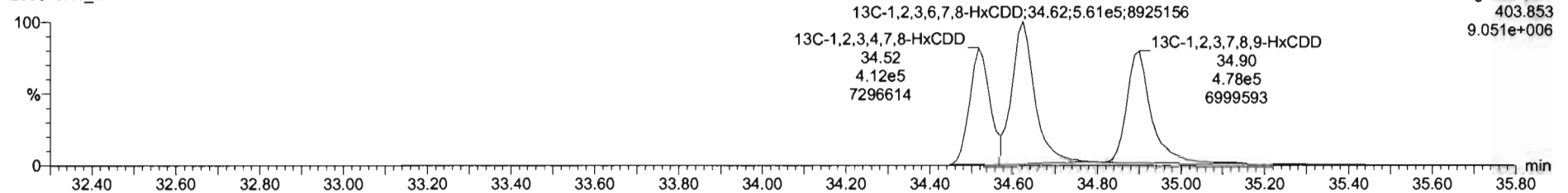


13C-1,2,3,4,7,8-HxCDD

200516R1_1



200516R1_1



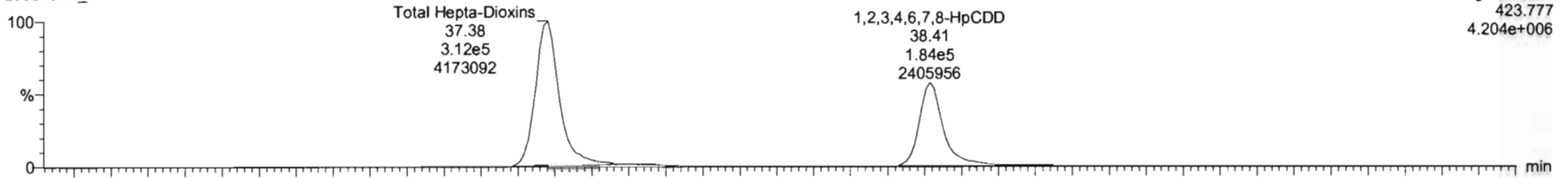
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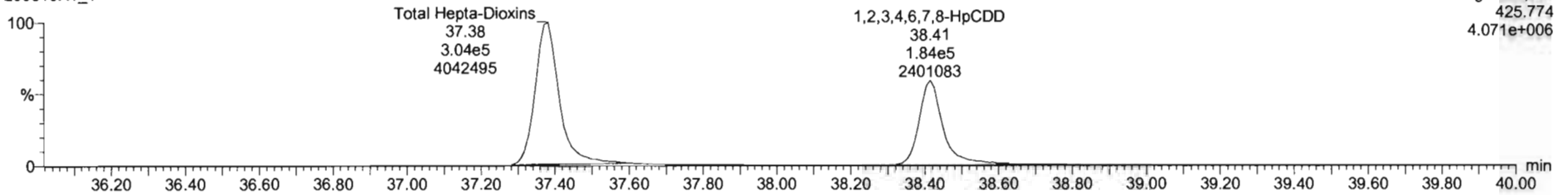
1,2,3,4,6,7,8-HpCDD

200516R1_1



F4:Voltage SIR,EI+
423.777
4.204e+006

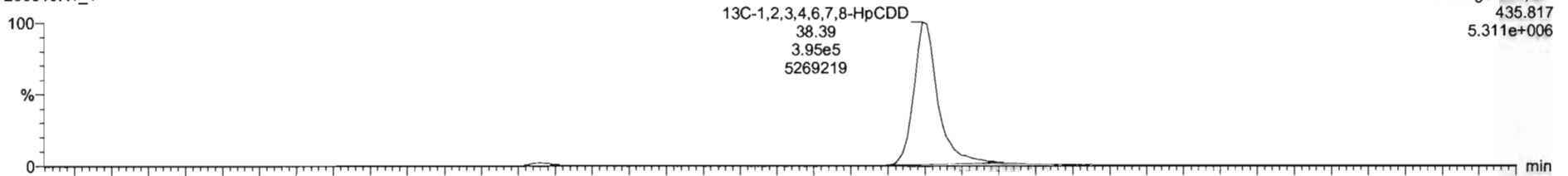
200516R1_1



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425.774
4.071e+006

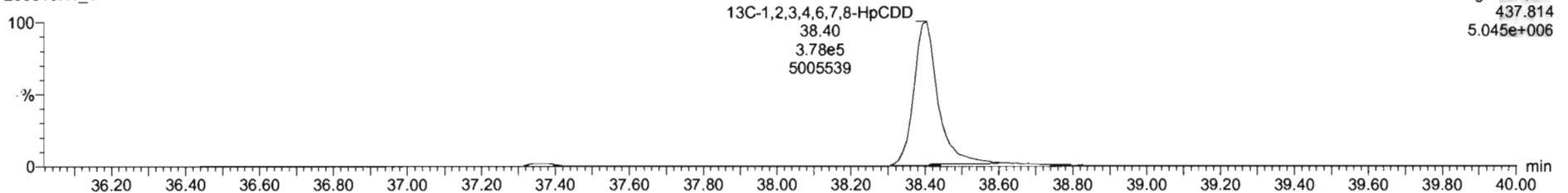
13C-1,2,3,4,6,7,8-HpCDD

200516R1_1

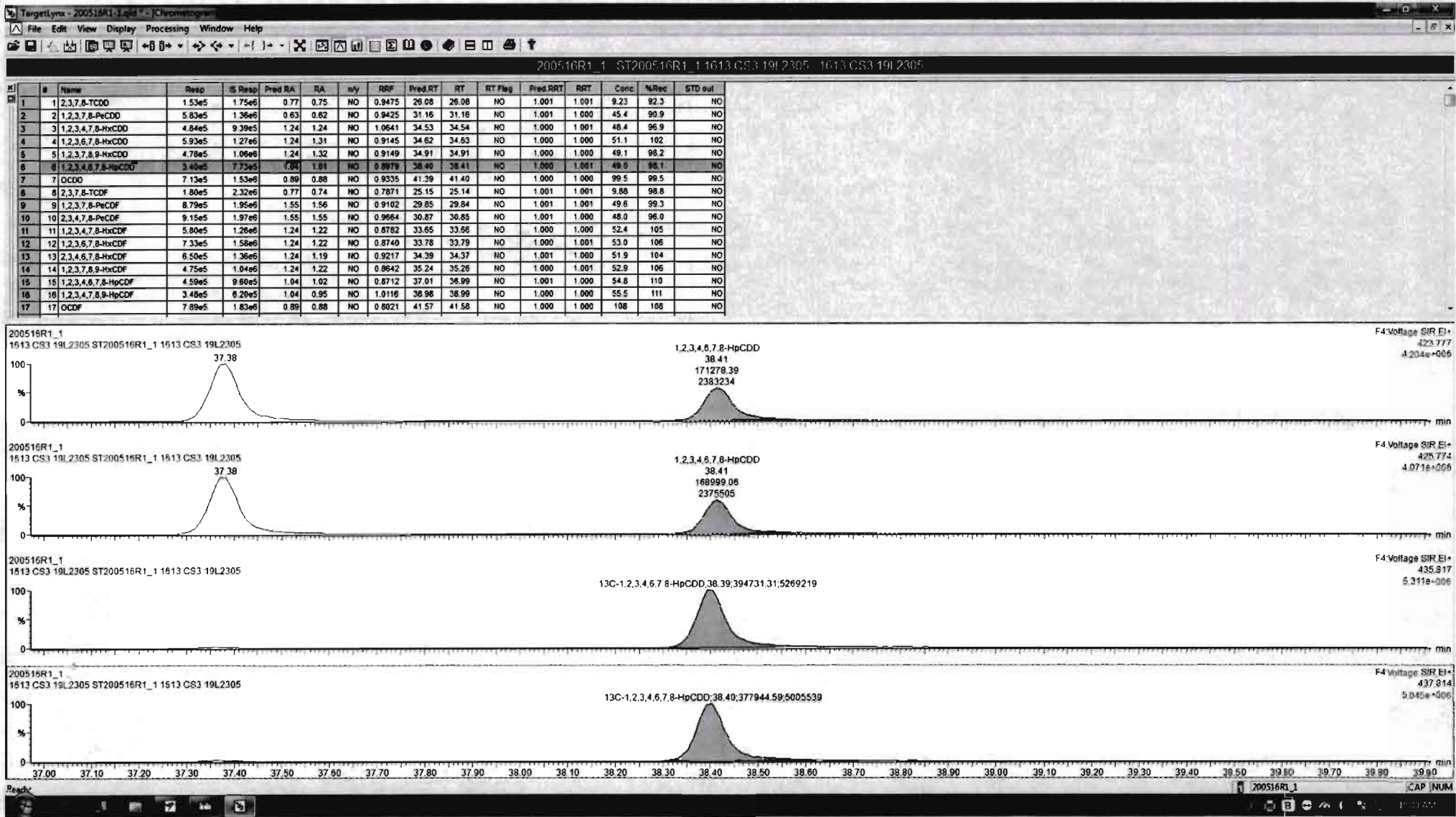


F4:Voltage SIR,EI+
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5.311e+006

200516R1_1



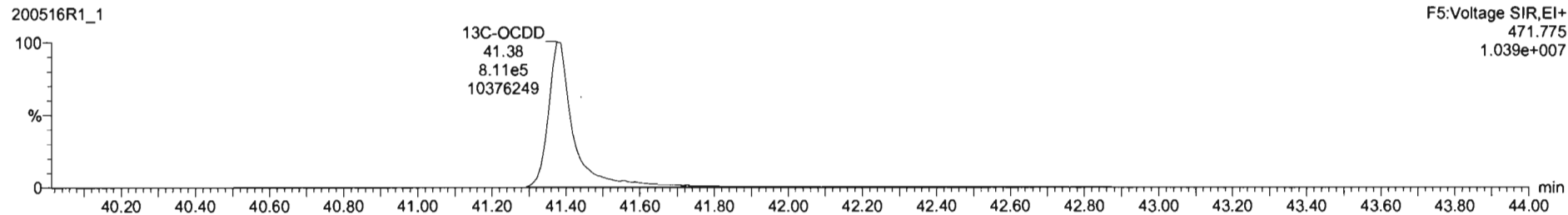
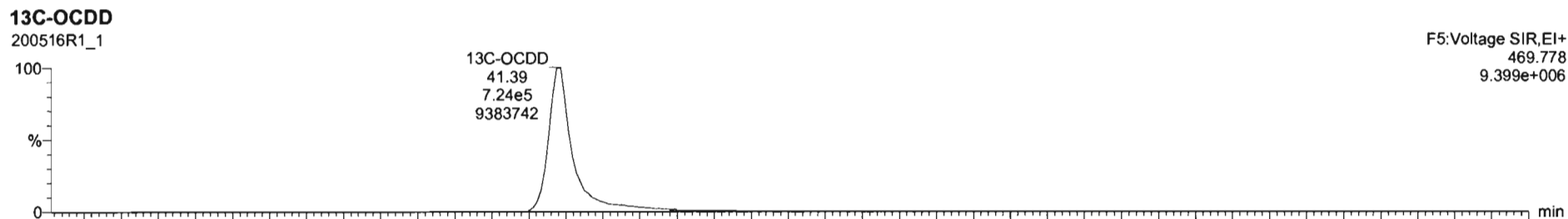
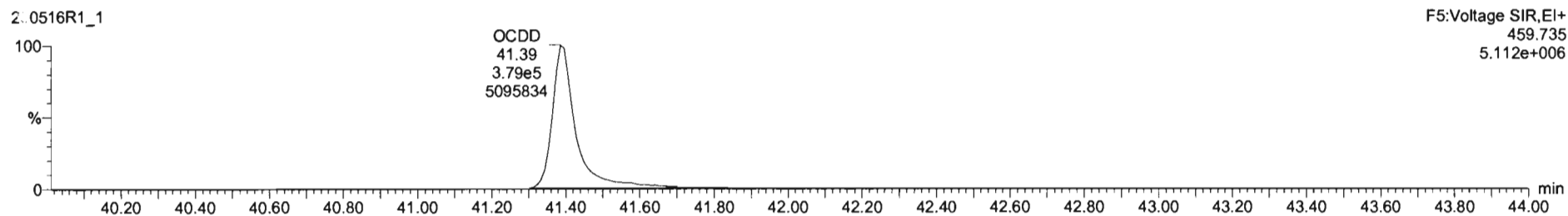
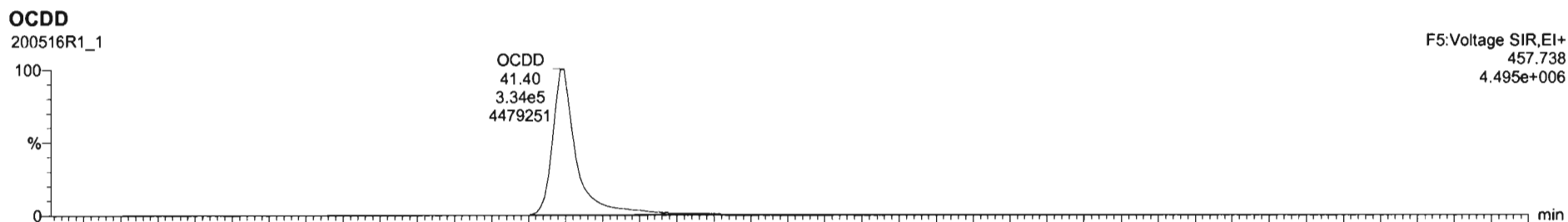
F4:Voltage SIR,EI+
437.814
5.045e+006

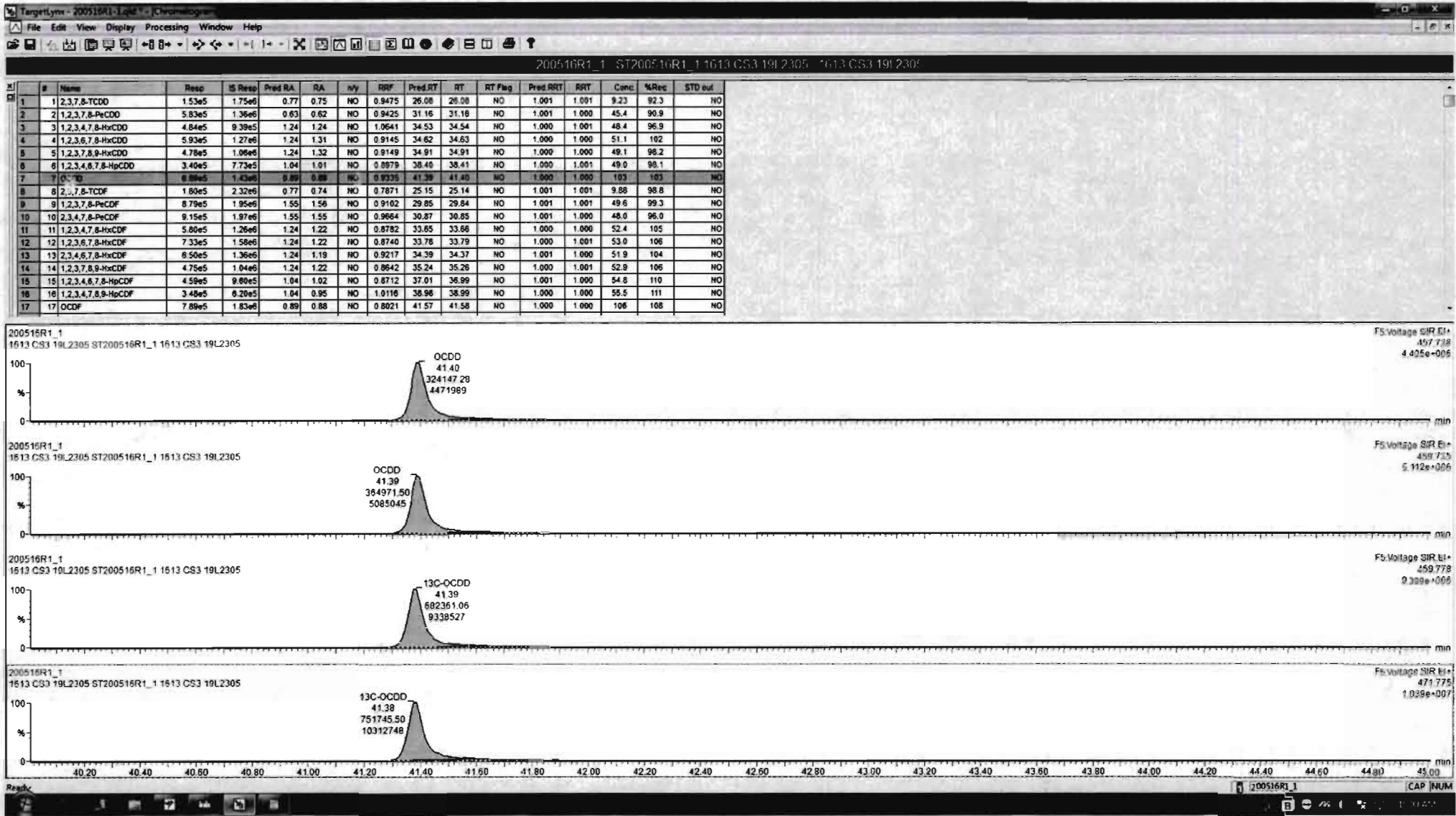


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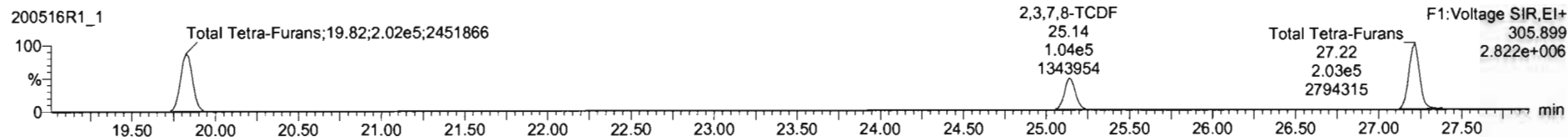
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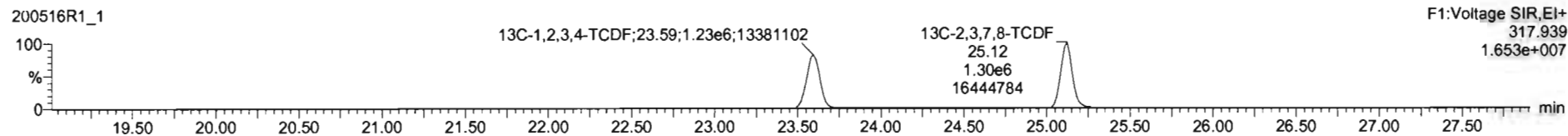
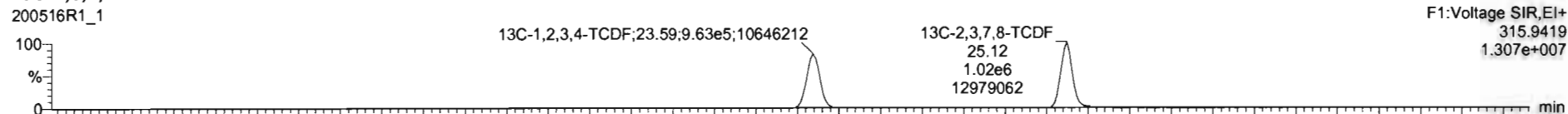
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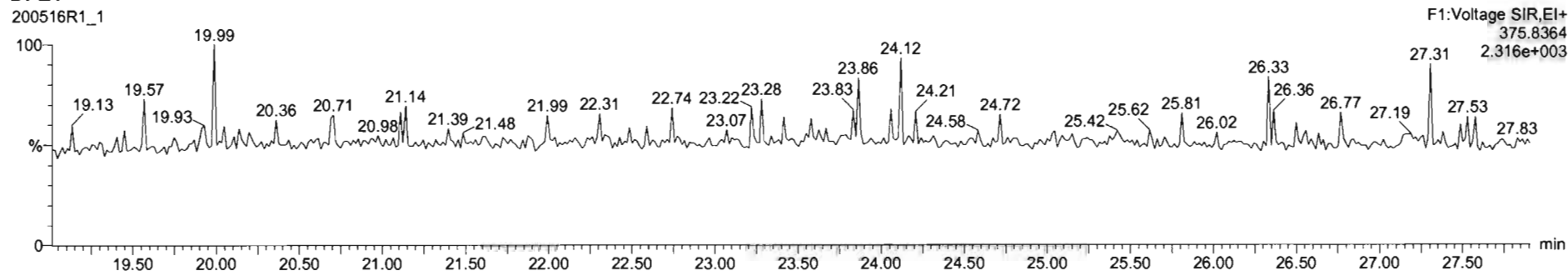
2,3,7,8-TCDF



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



DPE1



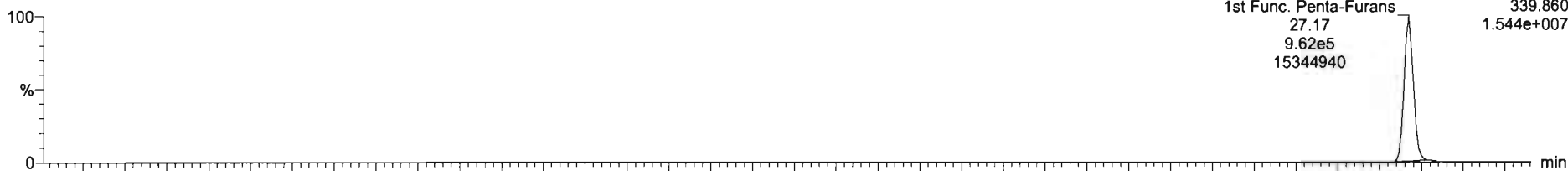
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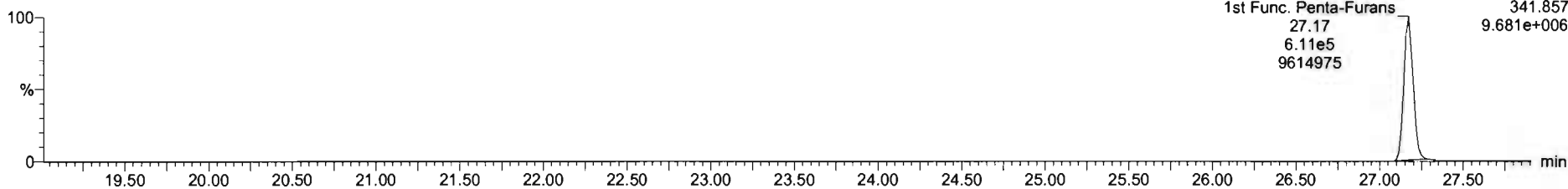
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1st Func. Penta-Furans

200516R1_1

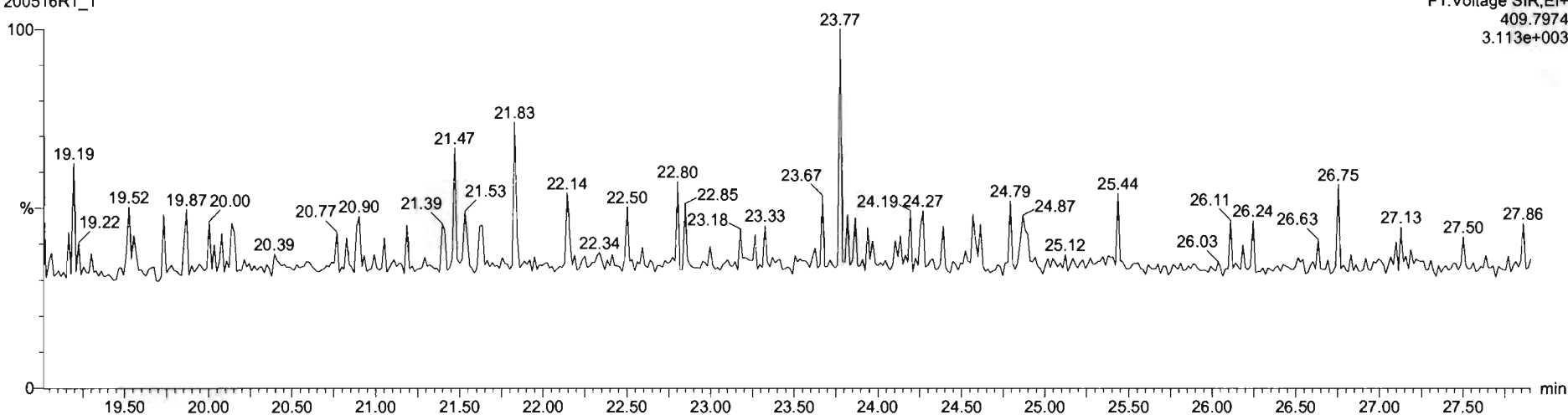


200516R1_1



DPE6

200516R1_1



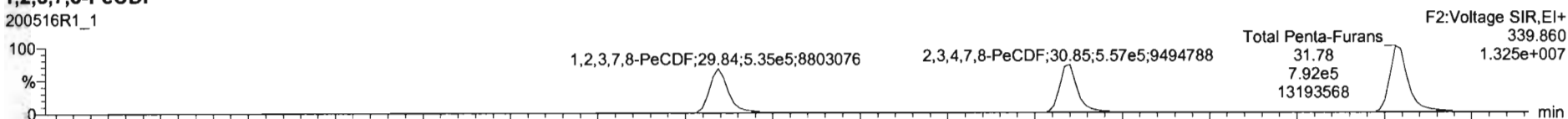
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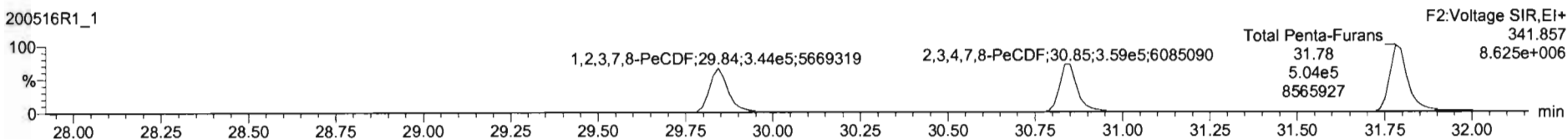
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1,2,3,7,8-PeCDF

200516R1_1

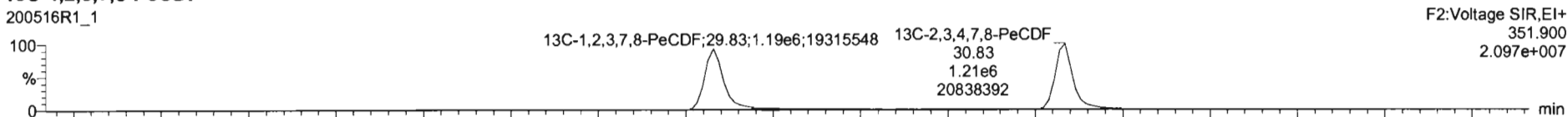


200516R1_1

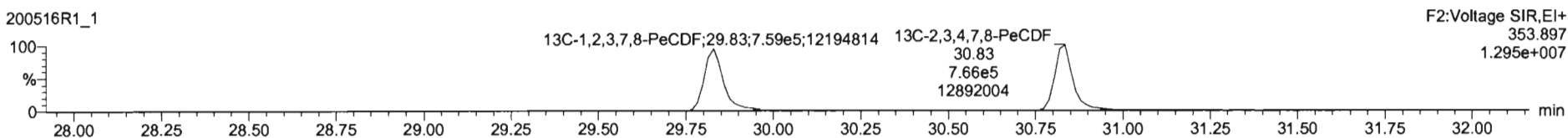


13C-1,2,3,7,8-PeCDF

200516R1_1

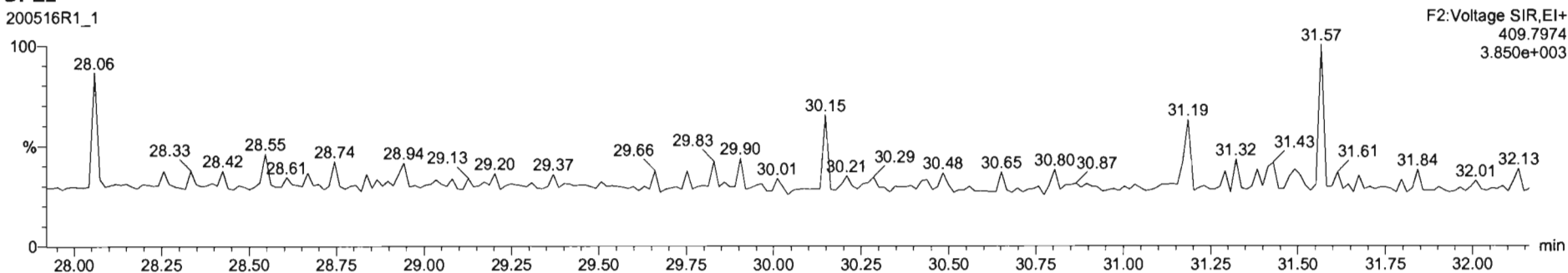


200516R1_1



DPE2

200516R1_1

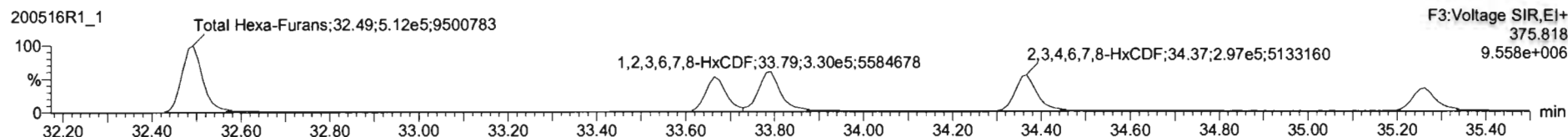
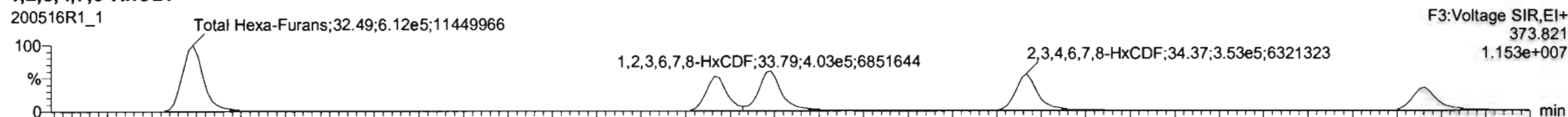


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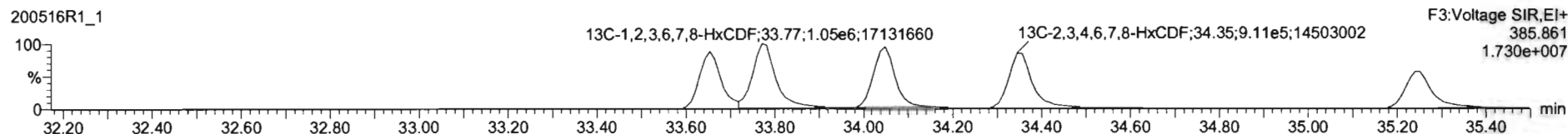
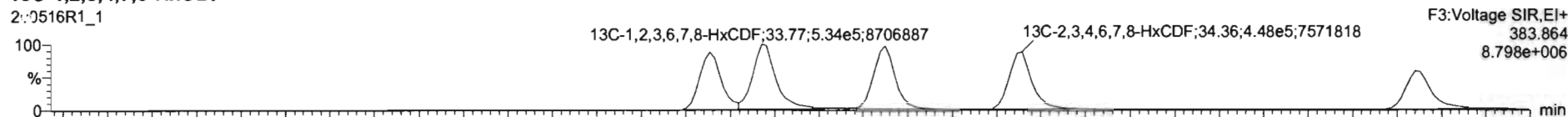
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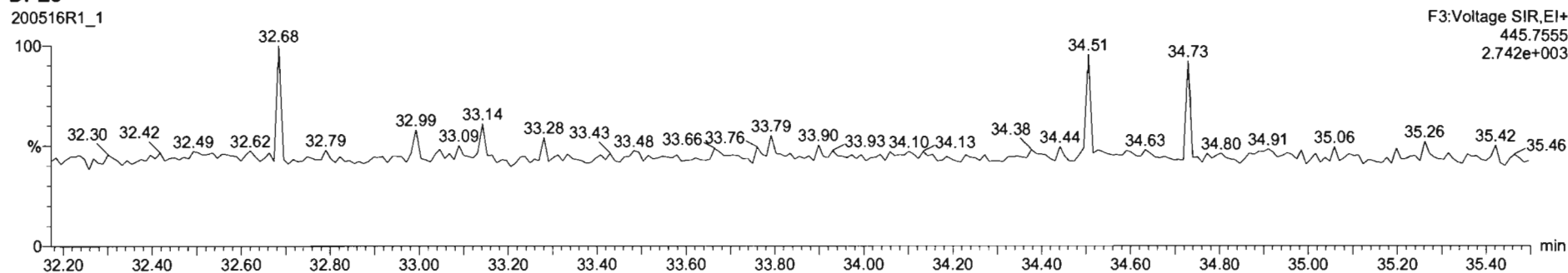
1,2,3,4,7,8-HxCDF



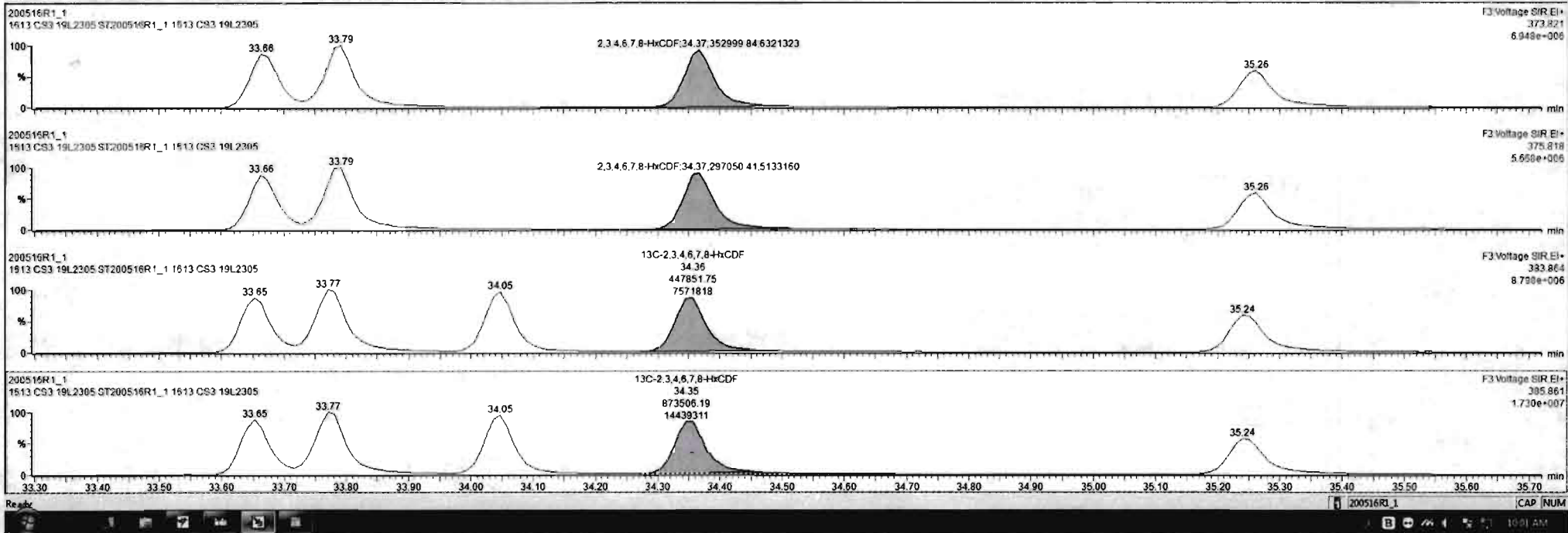
13C-1,2,3,4,7,8-HxCDF



DPE3



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1	2,3,7,8-TCDD	1.53e5	1.75e6	0.77	0.75	NO	0.9475	26.08	26.08	NO	1.001	1.001	9.23	92.3	NO
2	1,2,3,7,8-PeCDD	5.83e5	1.36e6	0.63	0.62	NO	0.9425	31.16	31.16	NO	1.001	1.000	45.4	90.9	NO
3	1,2,3,4,7,8-HxCDD	4.84e5	9.39e5	1.24	1.24	NO	1.0641	34.53	34.54	NO	1.000	1.001	48.4	96.9	NO
4	1,2,3,6,7,8-HxCDD	5.93e5	1.27e6	1.24	1.31	NO	0.9145	34.62	34.63	NO	1.000	1.000	51.1	102	NO
5	1,2,3,7,8,9-HxCDD	4.78e5	1.08e6	1.24	1.32	NO	0.9149	34.91	34.91	NO	1.000	1.000	49.1	98.2	NO
6	1,2,3,4,6,7,8-HpCDD	3.40e5	7.73e5	1.04	1.01	NO	0.8979	36.40	36.41	NO	1.000	1.001	49.0	98.1	NO
7	OCDD	6.89e5	1.43e6	0.89	0.89	NO	0.9335	41.39	41.40	NO	1.000	1.000	103	103	NO
8	2,3,7,8-TCDF	1.80e5	2.32e6	0.77	0.74	NO	0.7871	25.15	25.14	NO	1.001	1.001	9.88	98.8	NO
9	1,2,3,7,8-PeCDF	8.79e5	1.95e6	1.55	1.56	NO	0.9102	29.85	29.84	NO	1.001	1.001	49.6	99.3	NO
10	2,3,4,7,8-PeCDF	9.15e5	1.97e6	1.55	1.55	NO	0.9664	30.87	30.85	NO	1.001	1.000	48.0	96.0	NO
11	1,2,3,4,7,8-HxCDF	5.80e5	1.26e6	1.24	1.22	NO	0.8782	33.65	33.66	NO	1.000	1.000	52.4	105	NO
12	1,2,3,6,7,8-HxCDF	7.33e5	1.58e6	1.24	1.22	NO	0.8740	33.78	33.79	NO	1.000	1.001	53.0	106	NO
13	2,3,4,6,7,8-HxCDF	6.30e5	1.32e6	1.24	1.18	NO	0.9217	34.39	34.37	NO	1.001	1.000	53.4	107	NO
14	1,2,3,7,8,9-HxCDF	4.75e5	1.04e6	1.24	1.22	NO	0.8642	35.24	35.26	NO	1.000	1.001	52.9	106	NO
15	1,2,3,4,6,7,8-HpCDF	4.59e5	9.60e5	1.04	1.02	NO	0.8712	37.01	36.99	NO	1.001	1.000	54.8	110	NO
16	1,2,3,4,7,8,9-HpCDF	3.48e5	6.20e5	1.04	0.95	NO	1.0116	38.98	38.99	NO	1.000	1.000	55.5	111	NO
17	OCDF	7.89e5	1.83e6	0.89	0.88	NO	0.8021	41.57	41.58	NO	1.000	1.000	108	108	NO



Dataset: Untitled

Last Altered: Saturday, May 16, 2020 09:57:06 Pacific Daylight Time
Printed: Saturday, May 16, 2020 09:59:30 Pacific Daylight Time

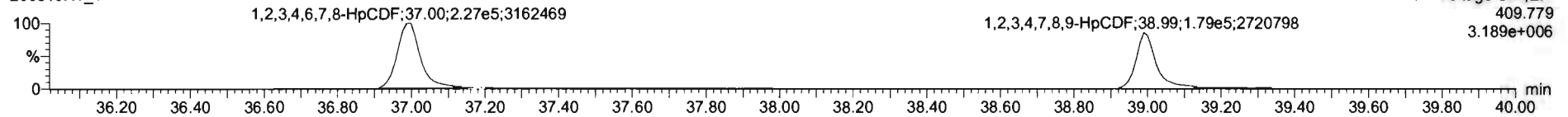
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1,2,3,4,6,7,8-HpCDF

200516R1_1

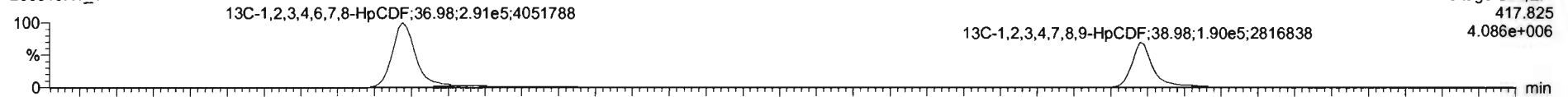


200516R1_1

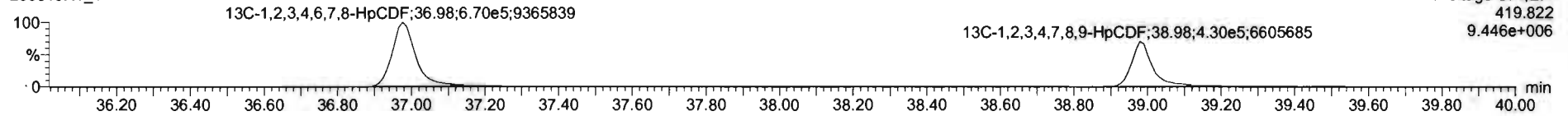


13C-1,2,3,4,6,7,8-HpCDF

200516R1_1

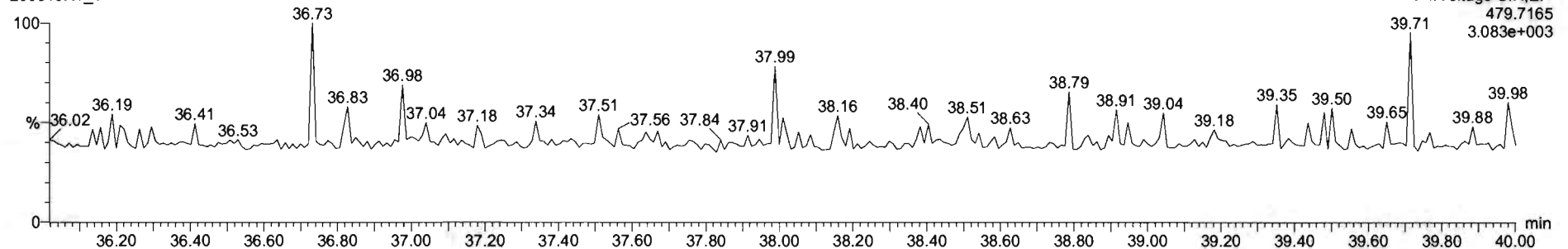


200516R1_1



DPE4

200516R1_1



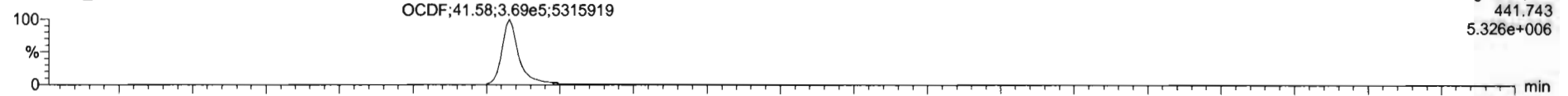
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Printed: Saturday, May 16, 2020 09:59:30 Pacific Daylight Time

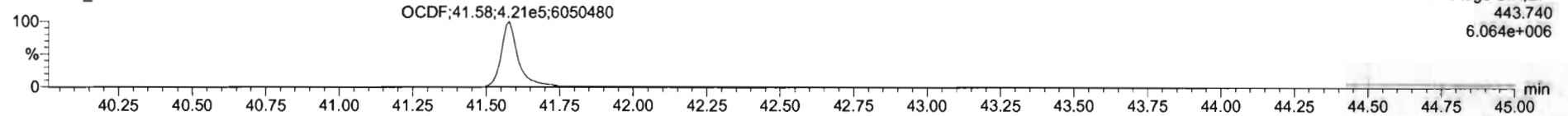
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CDF

200516R1_1

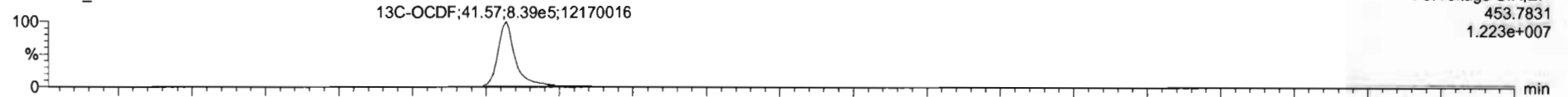


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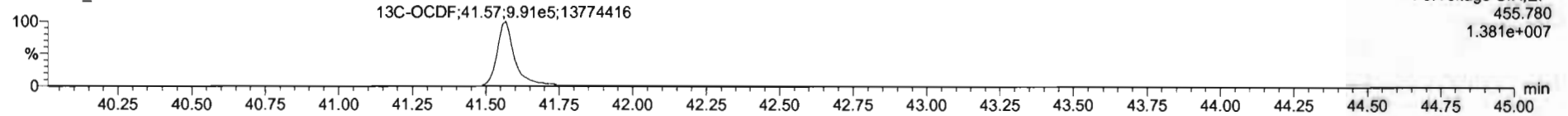


13C-OCDF

200516R1_1

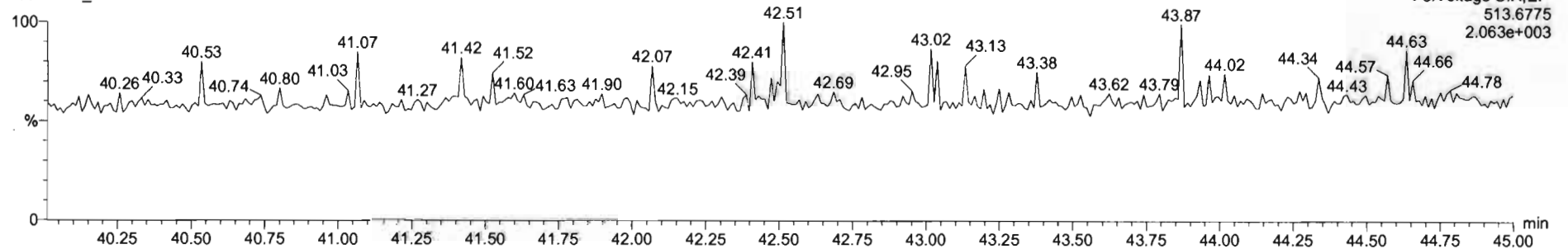


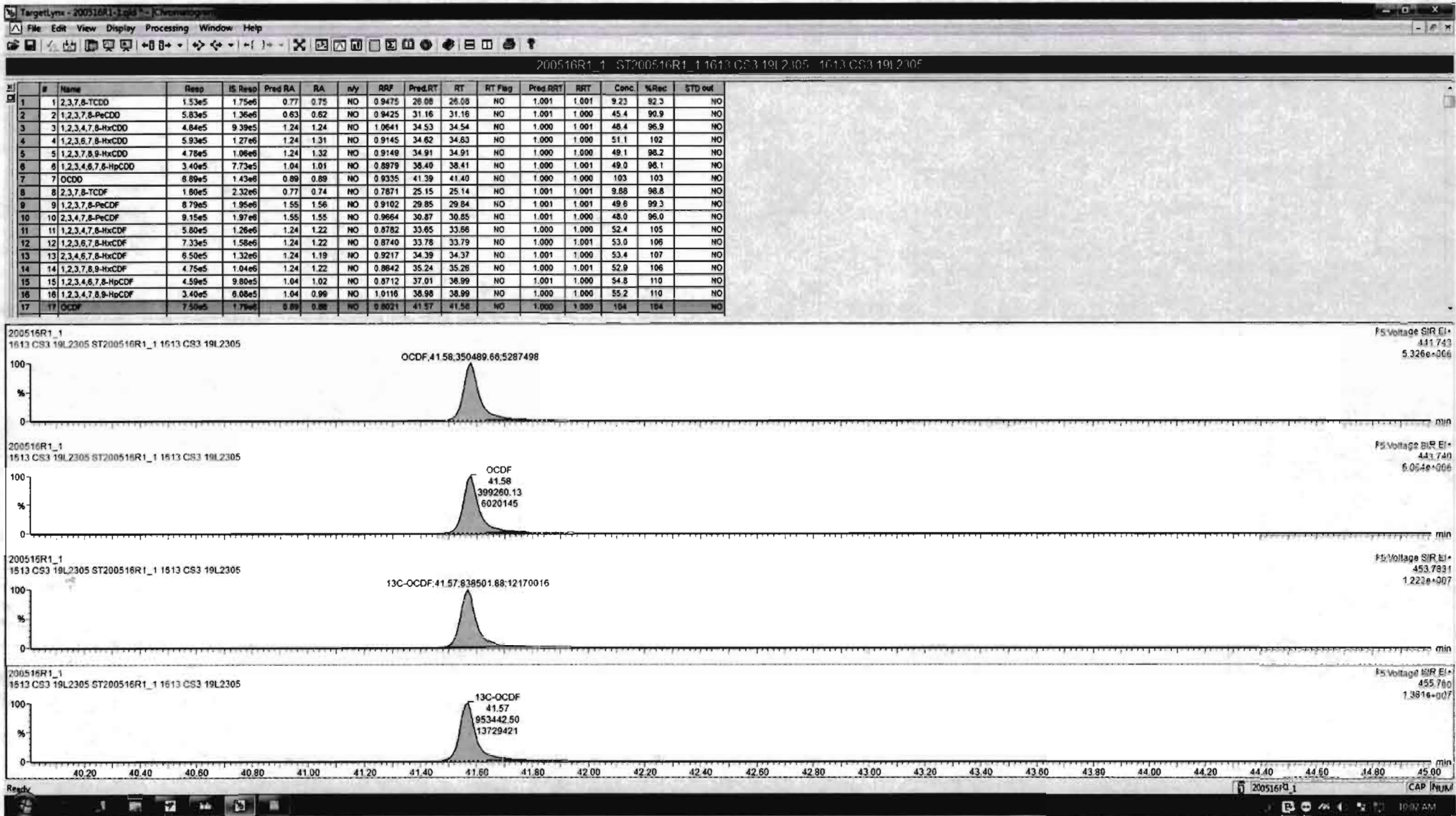
200516R1_1



DPE5

200516R1_1

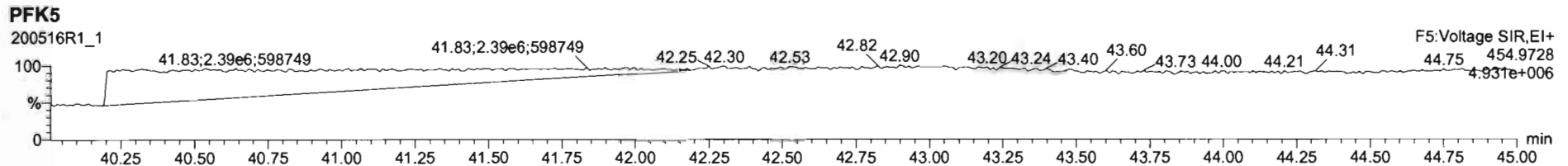
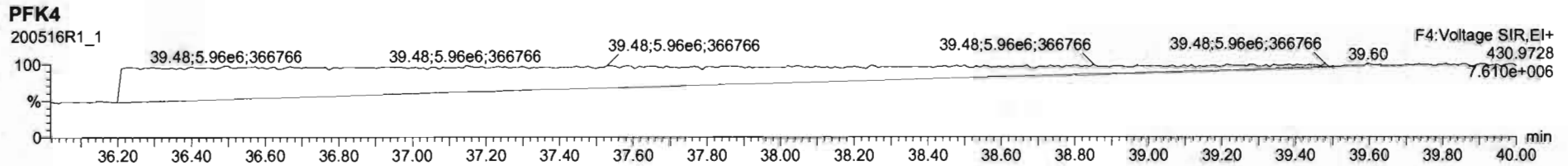
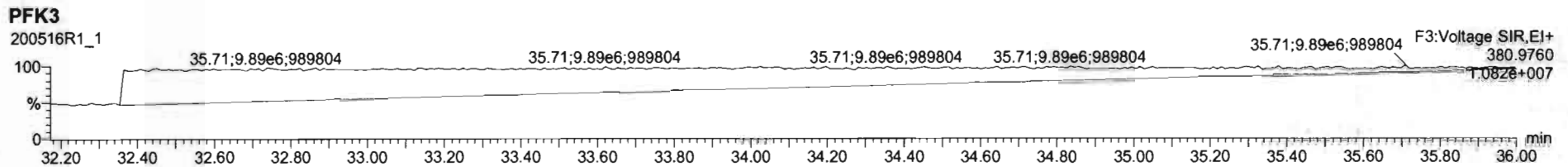
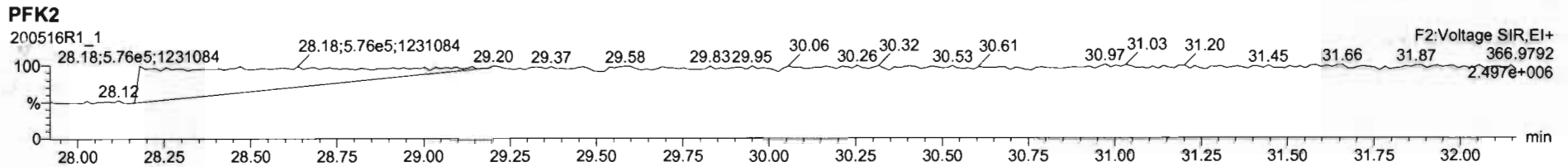
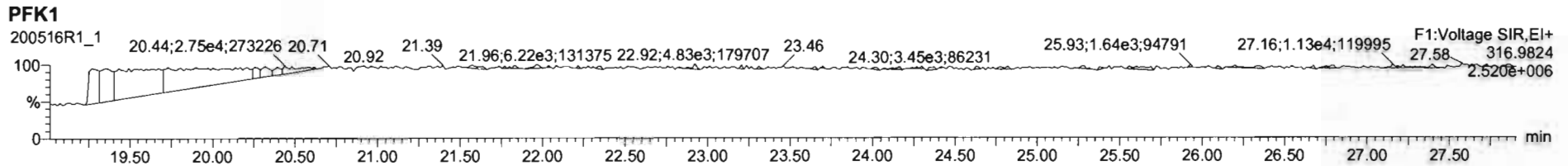




Dataset: Untitled

Last Altered: Saturday, May 16, 2020 09:57:06 Pacific Daylight Time
Printed: Saturday, May 16, 2020 09:59:30 Pacific Daylight Time

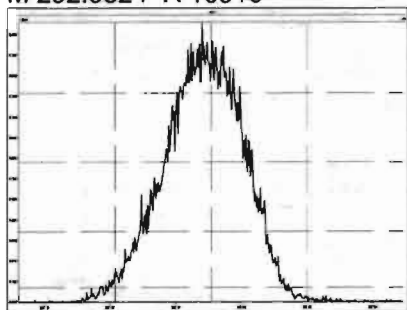
Name: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



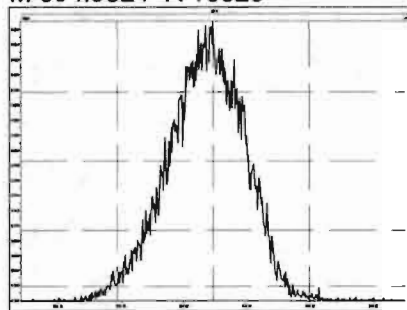
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, May 18, 2020 07:18:32 Pacific Daylight Time

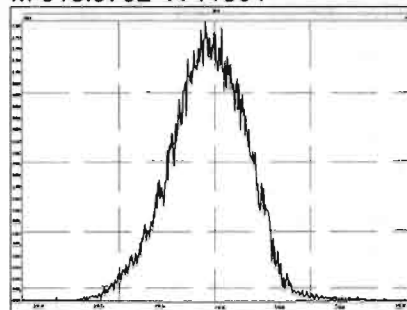
M 292.9824 R 10916



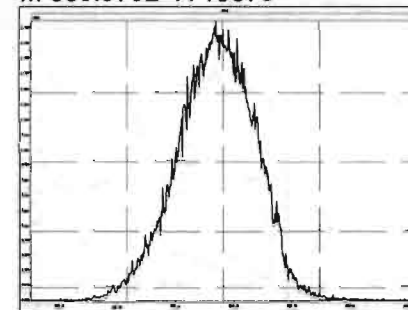
M 304.9824 R 10825



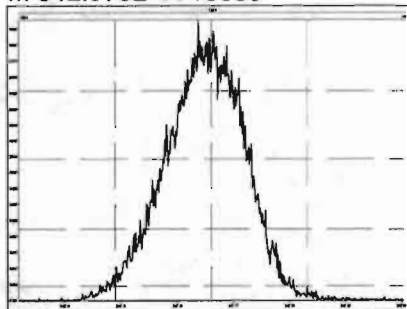
M 318.9792 R 11364



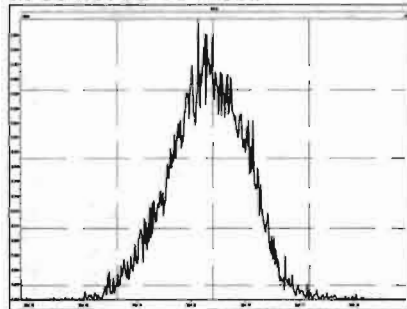
M 330.9792 R 10873



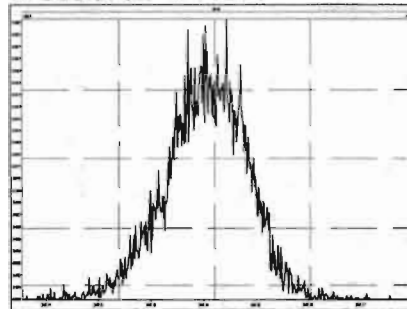
M 342.9792 R 10639



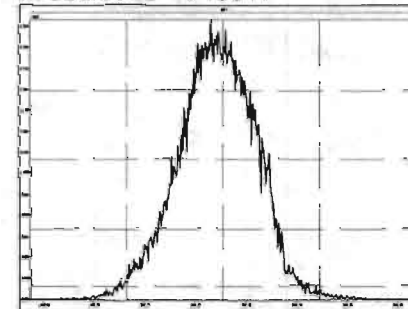
M 354.9792 R 11363



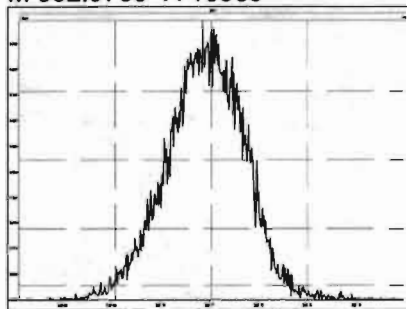
M 366.9792 R 11314



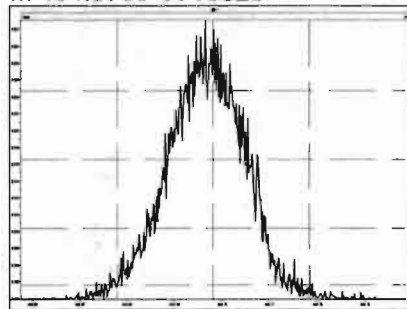
M 380.9760 R 10917



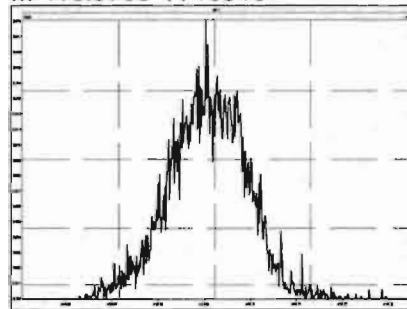
M 392.9760 R 10868



M 404.9760 R 10823



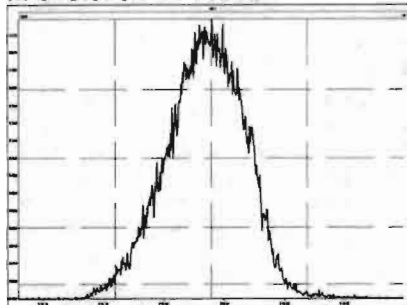
M 416.9760 R 10916



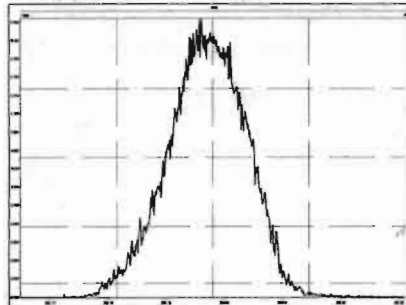
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, May 18, 2020 07:18:57 Pacific Daylight Time

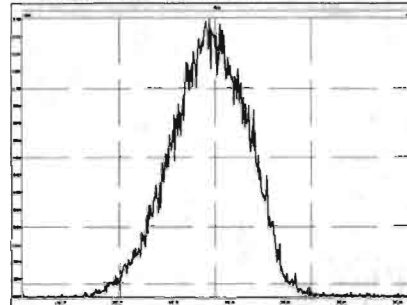
M 318.9792 R 11009



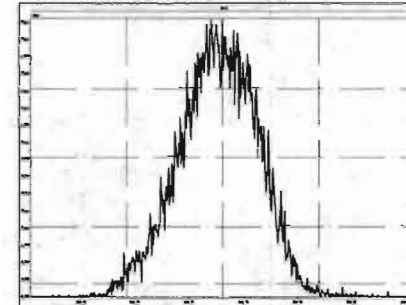
M 330.9792 R 10964



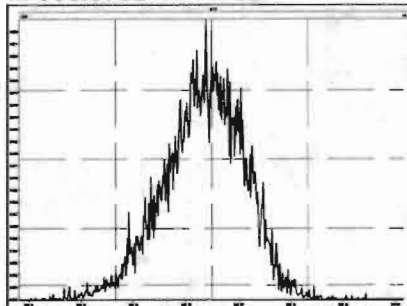
M 342.9792 R 10914



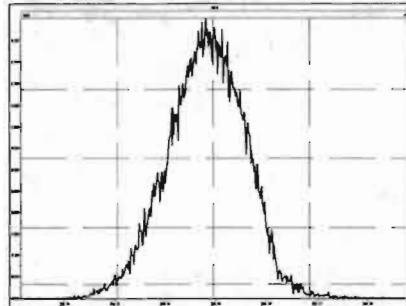
M 354.9792 R 10776



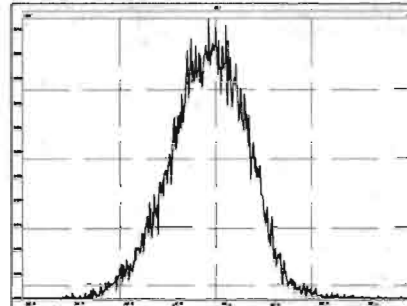
M 366.9792 R 11109



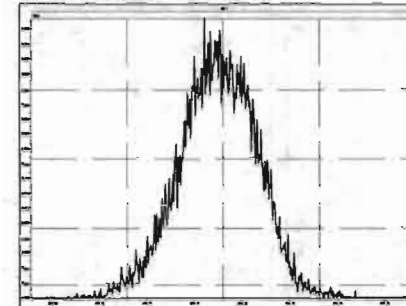
M 380.9760 R 10966



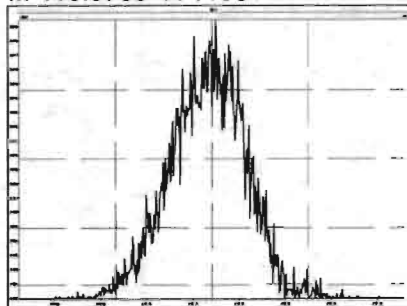
M 392.9760 R 11210



M 404.9760 R 11684



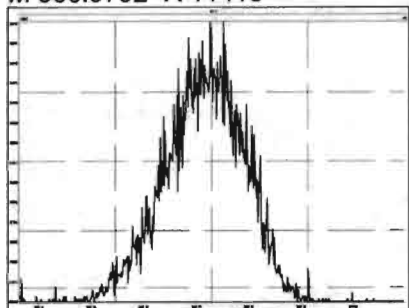
M 416.9760 R 11961



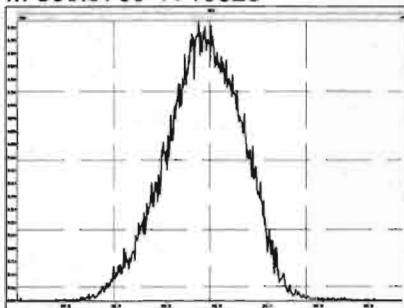
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, May 18, 2020 07:19:14 Pacific Daylight Time

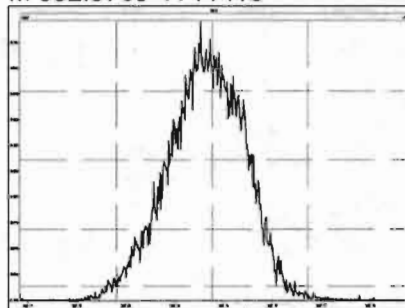
M 366.9792 R 11413



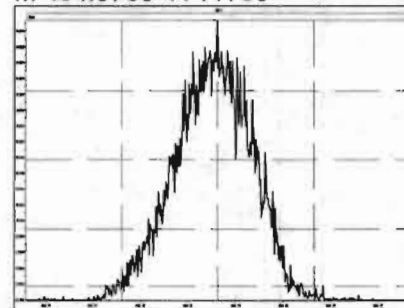
M 380.9760 R 10823



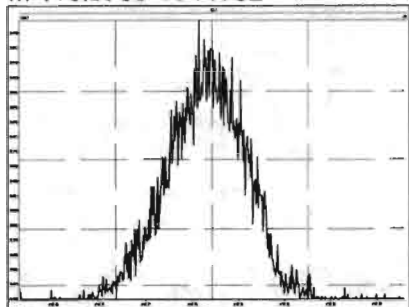
M 392.9760 R 11415



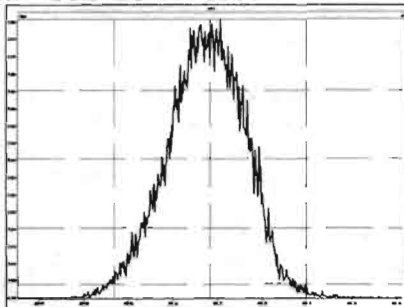
M 404.9760 R 11739



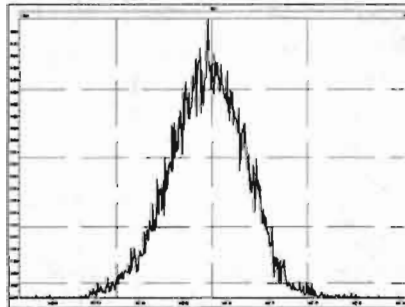
M 416.9760 R 11792



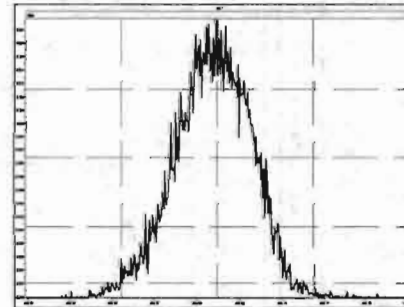
M 430.9728 R 10506



M 442.9728 R 11157



M 454.9728 R 11315



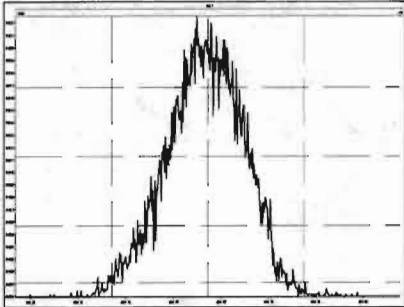
Experiment Calibration Report

MassLynx 4.1 SCN815

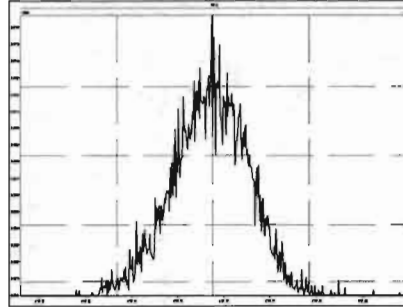
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, May 18, 2020 07:20:39 Pacific Daylight Time

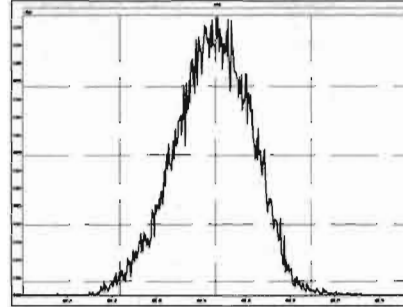
M 404.9760 R 10821



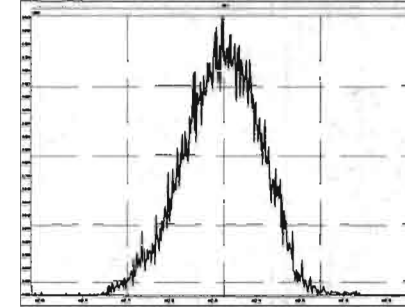
M 416.9760 R 12196



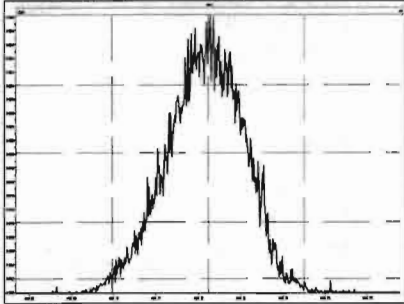
M 430.9728 R 11110



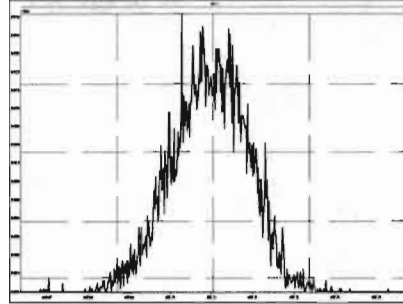
M 442.9728 R 11314



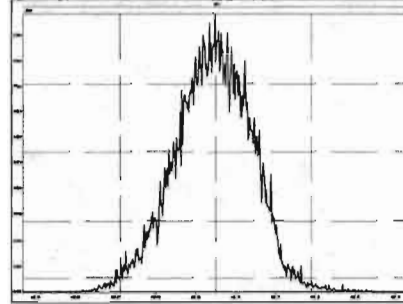
M 454.9728 R 11468



M 466.9728 R 12253



M 480.9696 R 11416



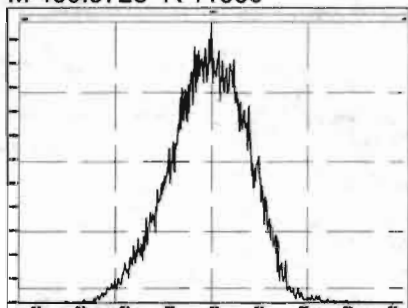
Experiment Calibration Report

MassLynx 4.1 SCN815

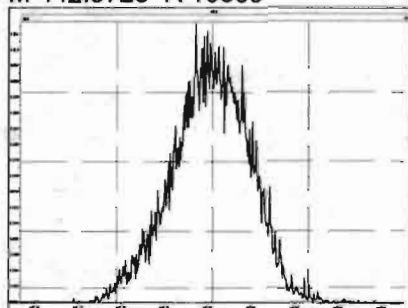
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Printed: Monday, May 18, 2020 07:21:58 Pacific Daylight Time

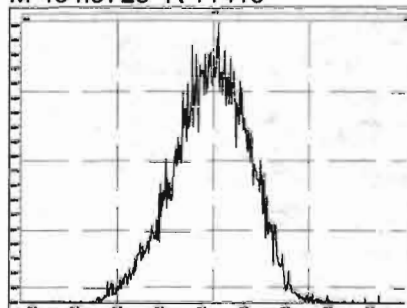
M 430.9728 R 11360



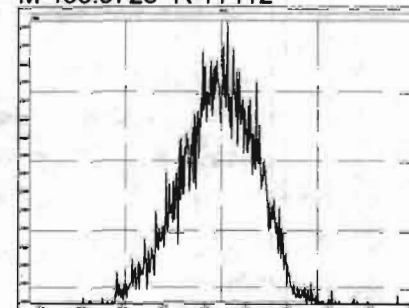
M 442.9728 R 10869



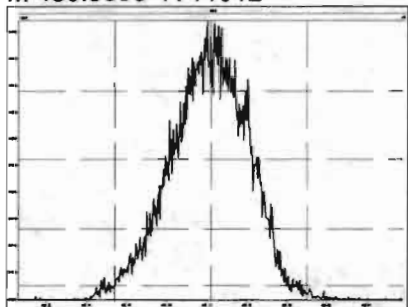
M 454.9728 R 11413



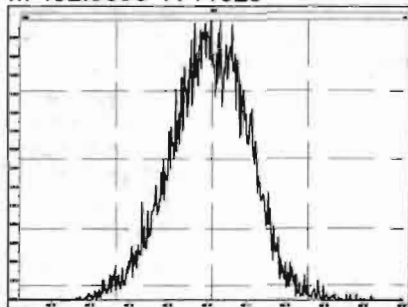
M 466.9728 R 11412



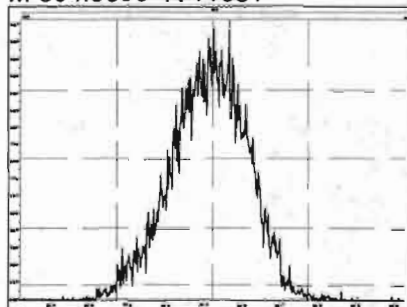
M 480.9696 R 11012



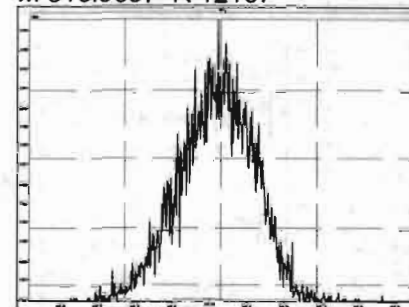
M 492.9696 R 11629



M 504.9696 R 11681



M 516.9697 R 12137



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 ≥	<input checked="" type="checkbox"/> A	<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

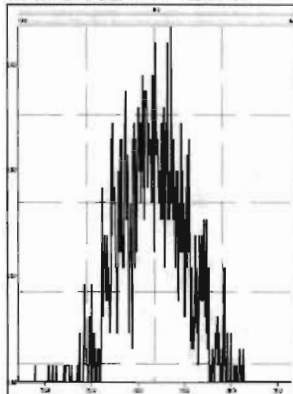
Compound name: 2,3,7,8-TCDF

	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

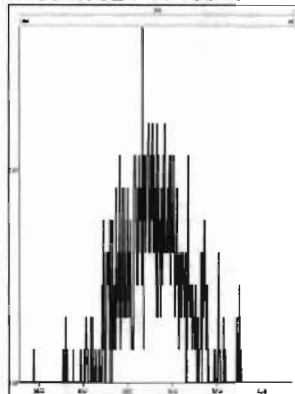
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, May 20, 2020 12:33:36 Pacific Daylight Time

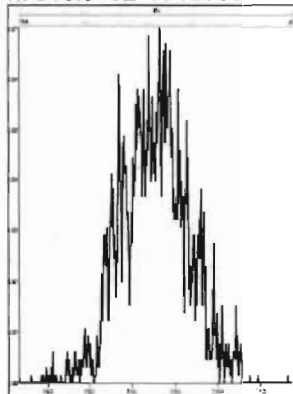
M 292.9824 R 12079



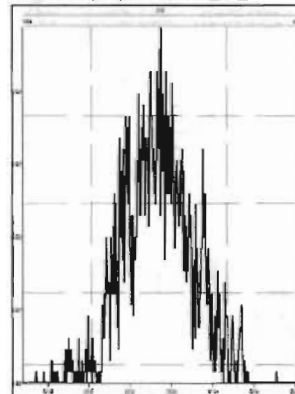
M 304.9824 R 18518



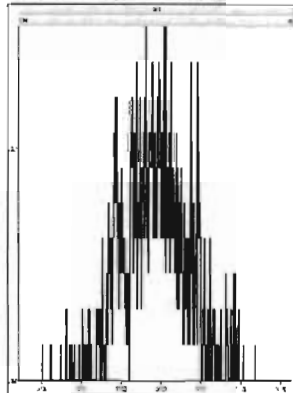
M 318.9792 R 10963



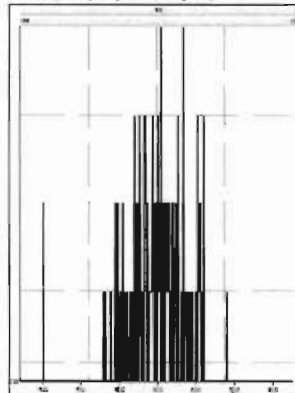
M 330.9792 R 11212



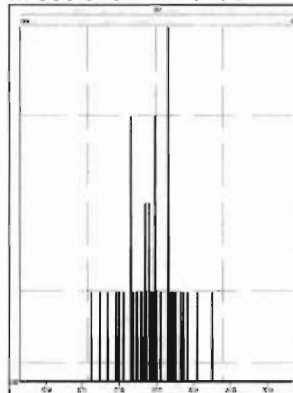
M 342.9792 R 12438



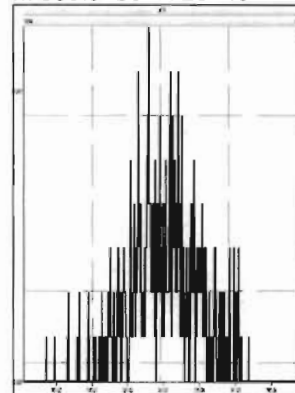
M 354.9792 R 51014

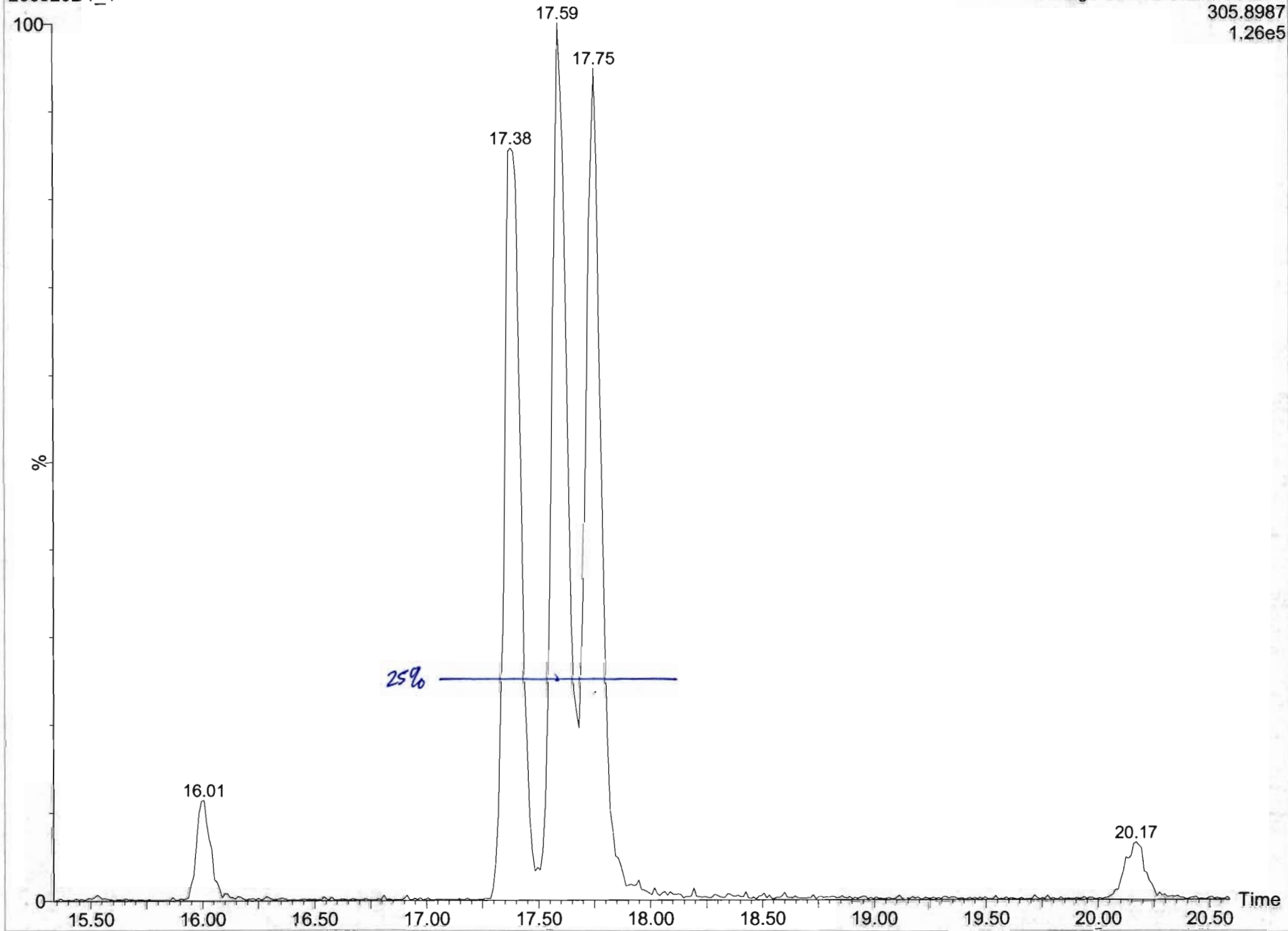


M 366.9792 R 28093



M 380.9760 R 23149



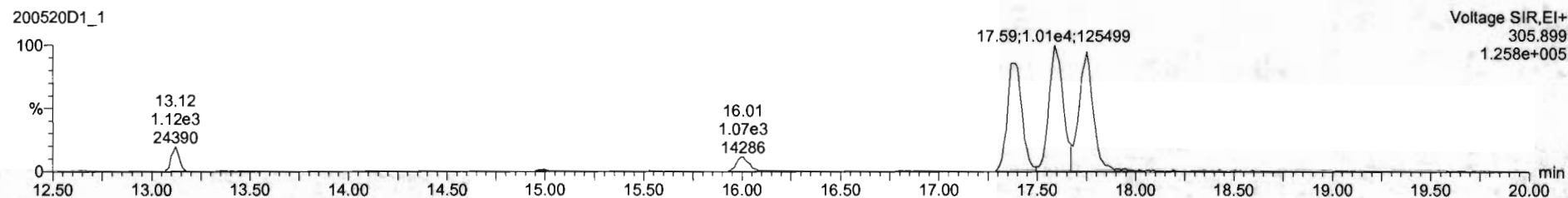
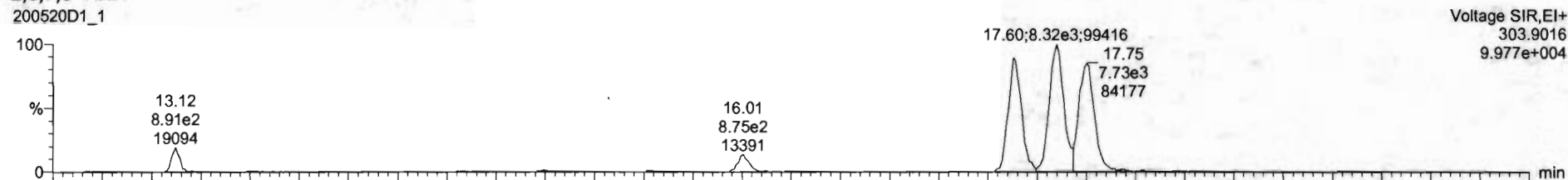


Dataset: U:\VG7.PRO\Results\200520D1\200520D1_1.qld
Last Altered: Wednesday, May 20, 2020 13:34:05 Pacific Daylight Time
Printed: Wednesday, May 20, 2020 13:35:13 Pacific Daylight Time

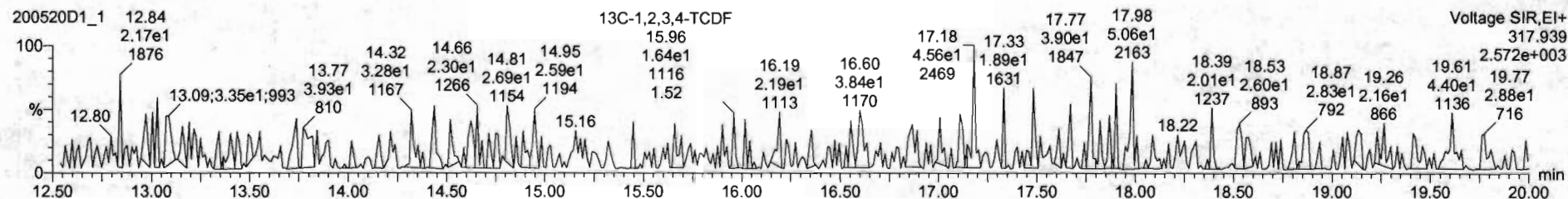
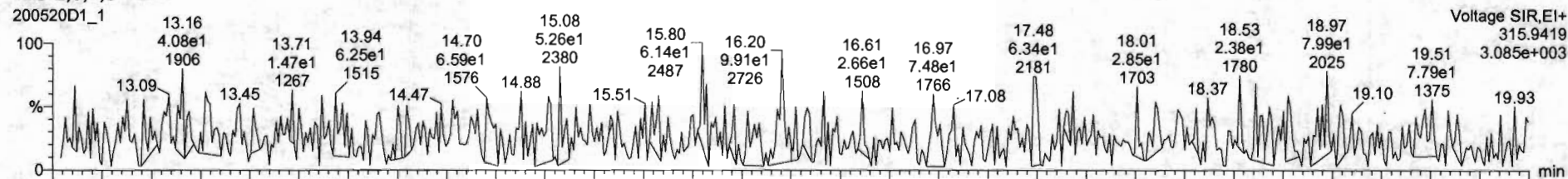
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

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

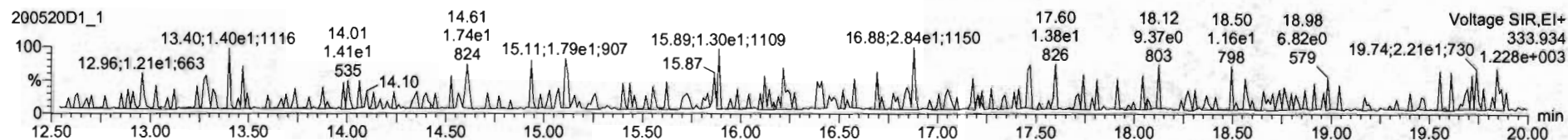
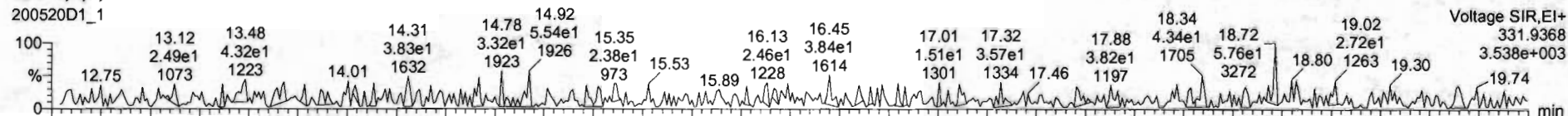


Dataset: U:\VG7.PRO\Results\200520D1\200520D1_1.qld

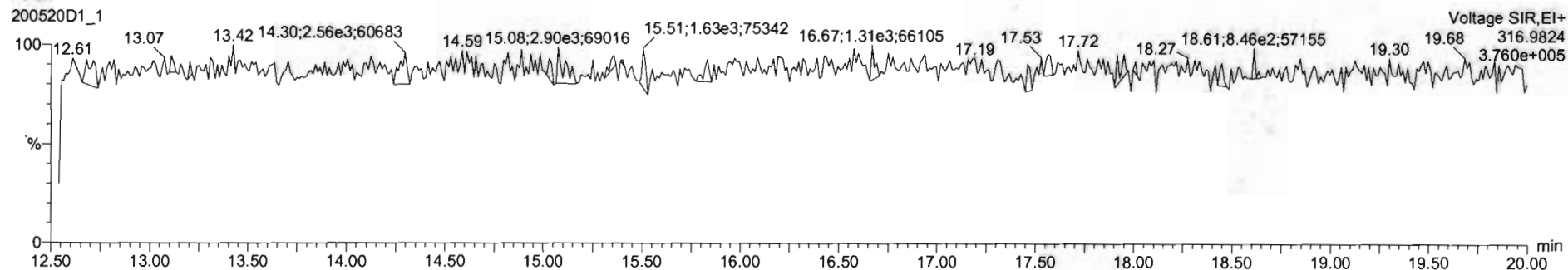
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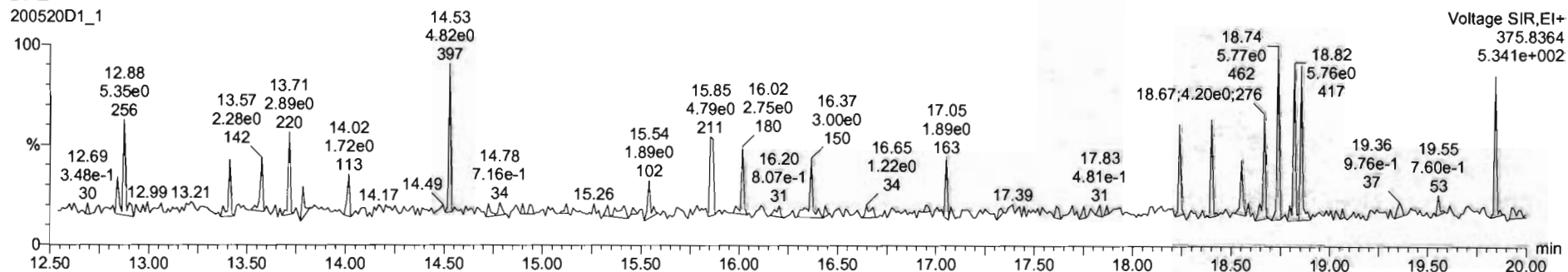
13C-1,2,3,4-TCDD



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

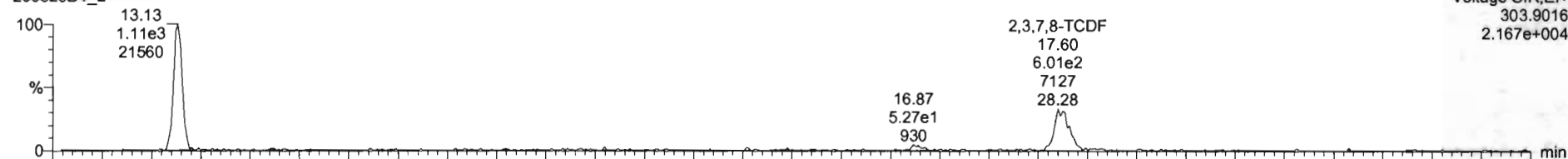
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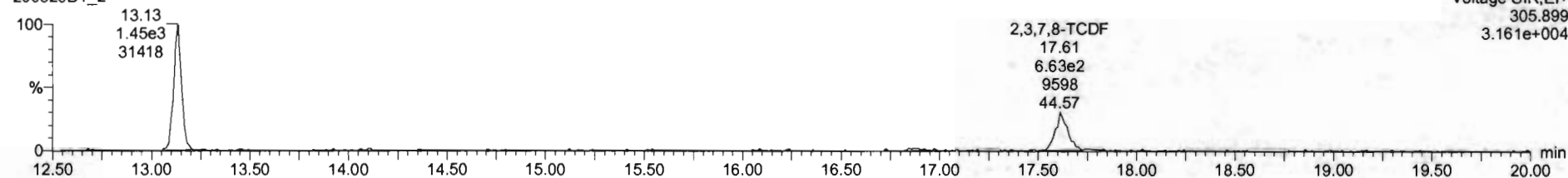
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2,3,7,8-TCDF

200520D1_2

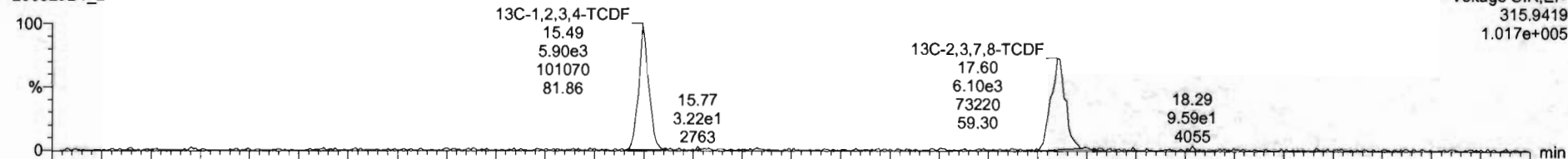


200520D1_2

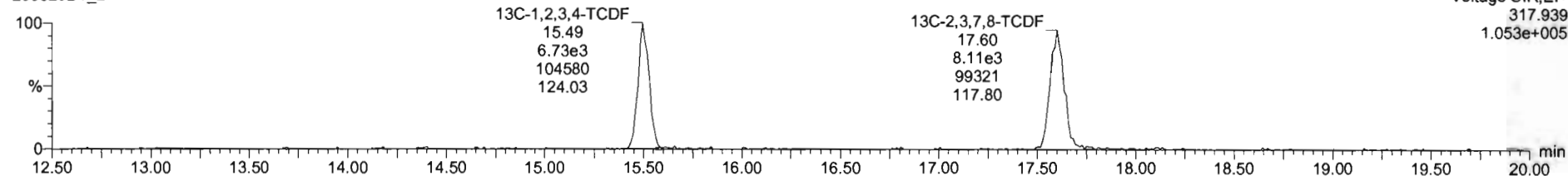


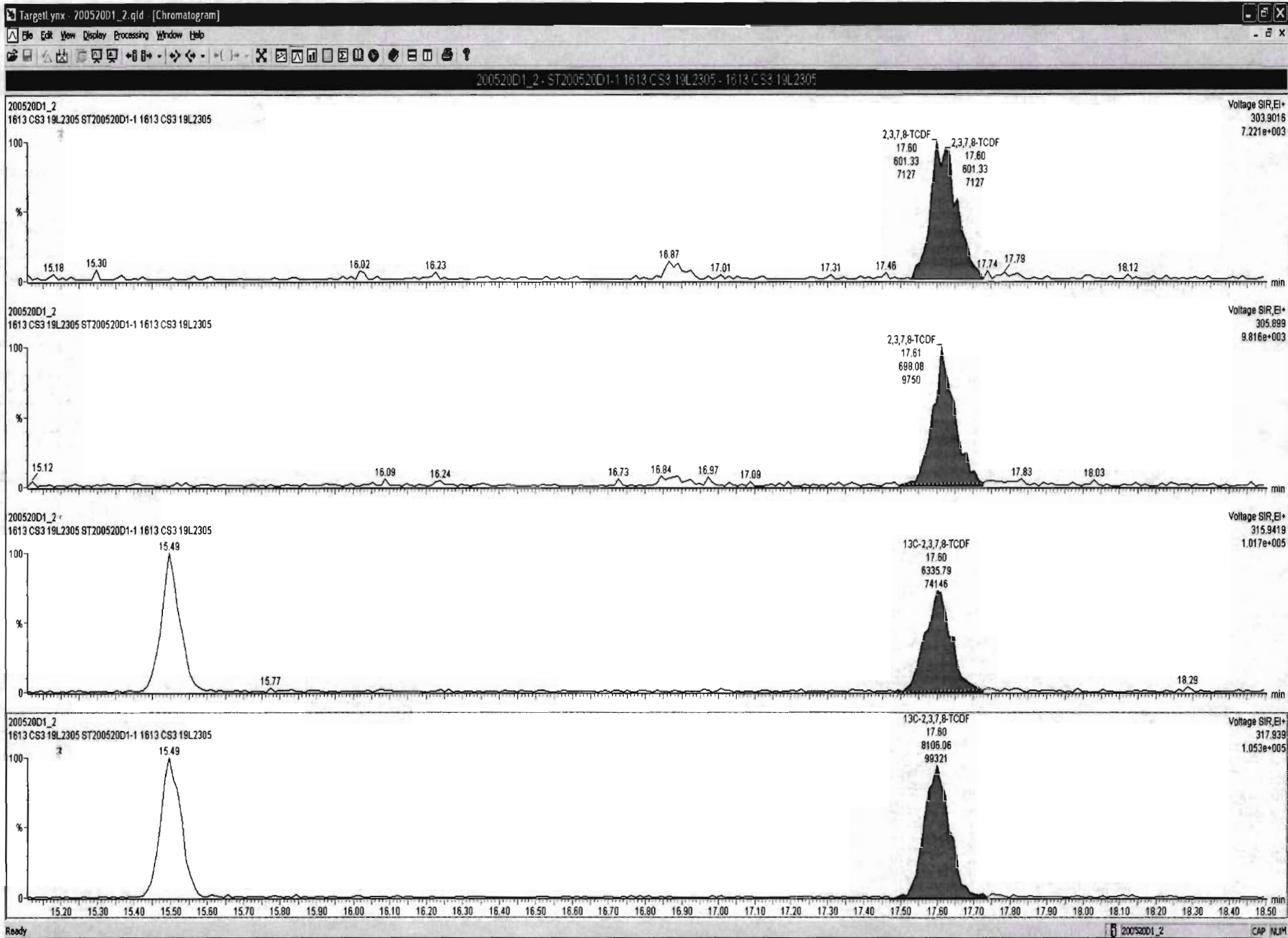
13C-2,3,7,8-TCDF

200520D1_2



200520D1_2





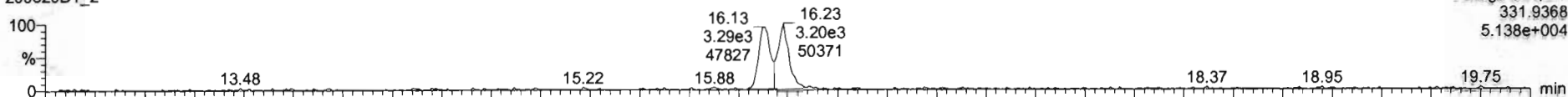
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Last Altered: Wednesday, May 20, 2020 13:28:23 Pacific Daylight Time
Printed: Wednesday, May 20, 2020 13:31:23 Pacific Daylight Time

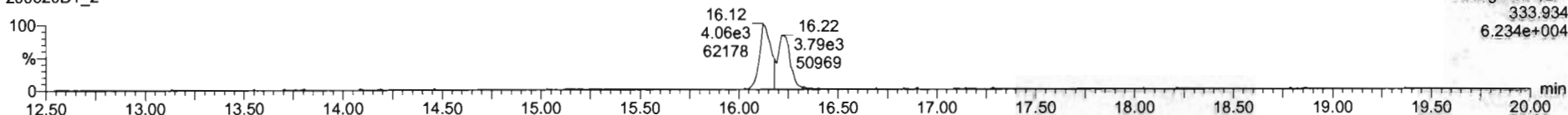
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1. C-1,2,3,4-TCDD

200520D1_2

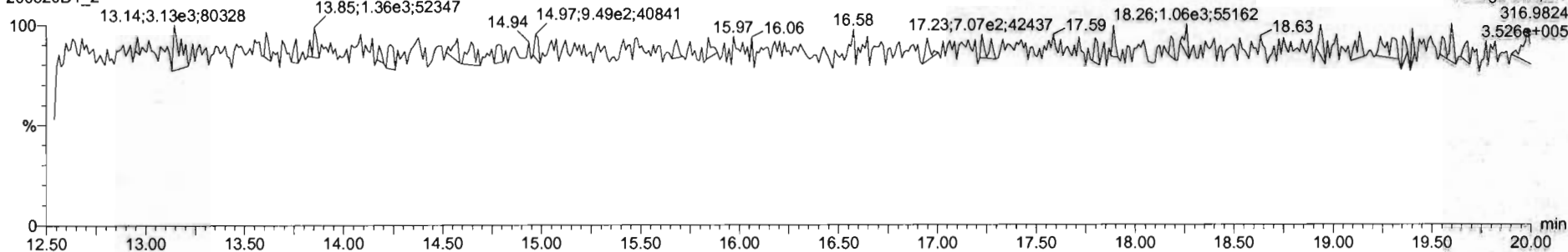


200520D1_2



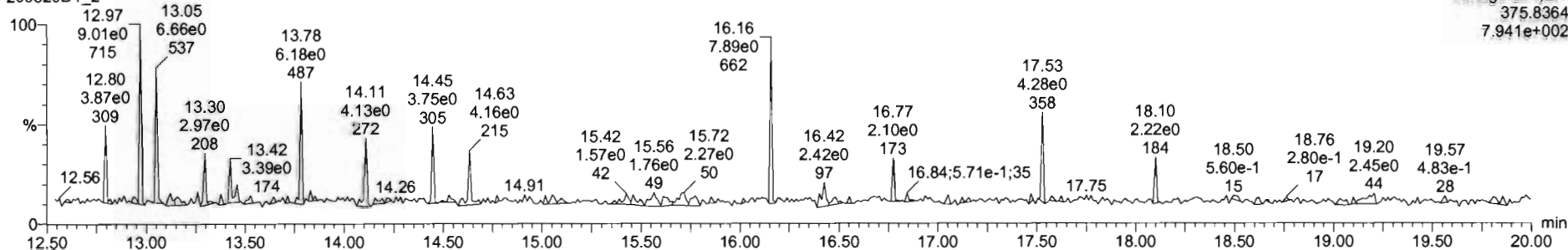
PFK1

200520D1_2



DPE1

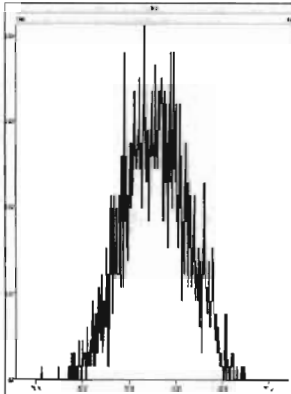
200520D1_2



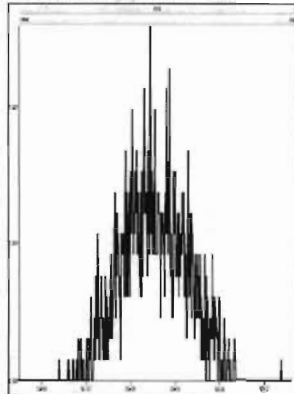
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, May 21, 2020 09:18:23 Pacific Daylight Time

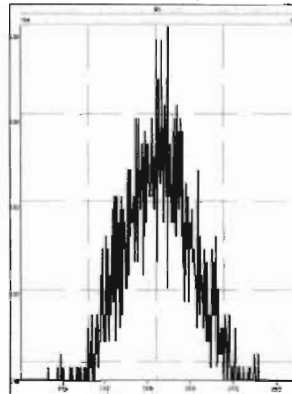
M 292.9824 R 9960



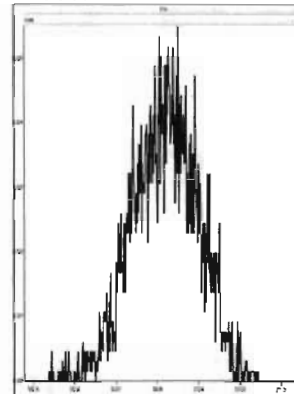
M 304.9824 R 11686



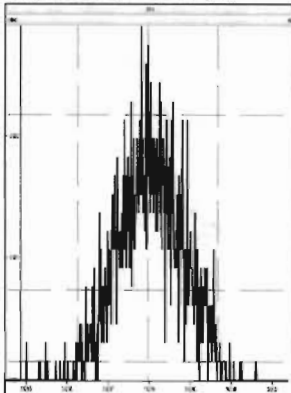
M 318.9792 R 10866



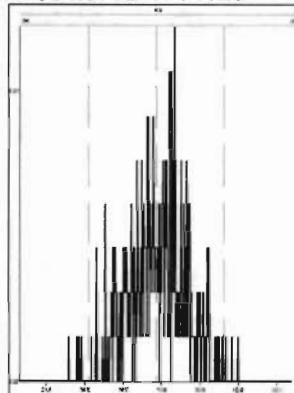
M 330.9792 R 9921



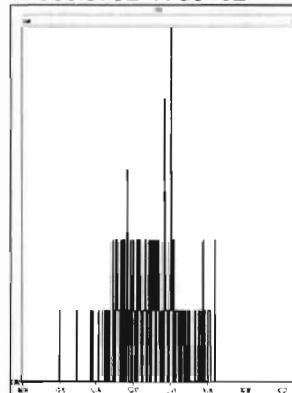
M 342.9792 R 11847



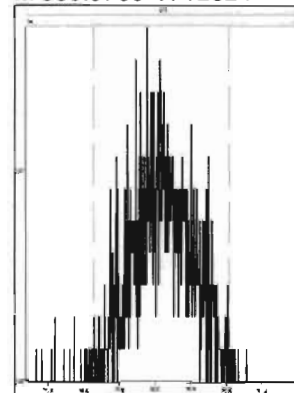
M 354.9792 R 14120



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

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: 1,2,3,7,8,9-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

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: 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

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time

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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

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time

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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

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time
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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

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time
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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

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: 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

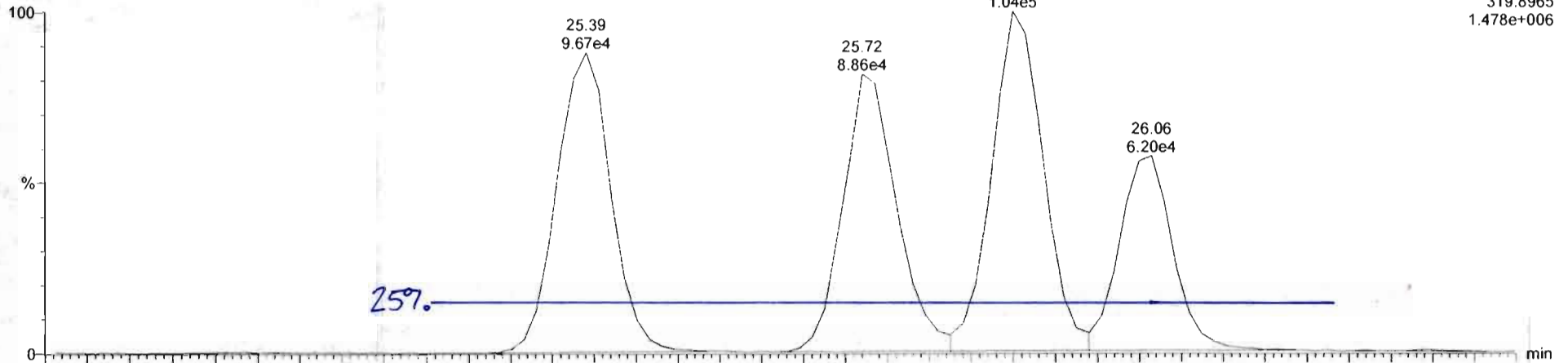
GPB 04/30/2020

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

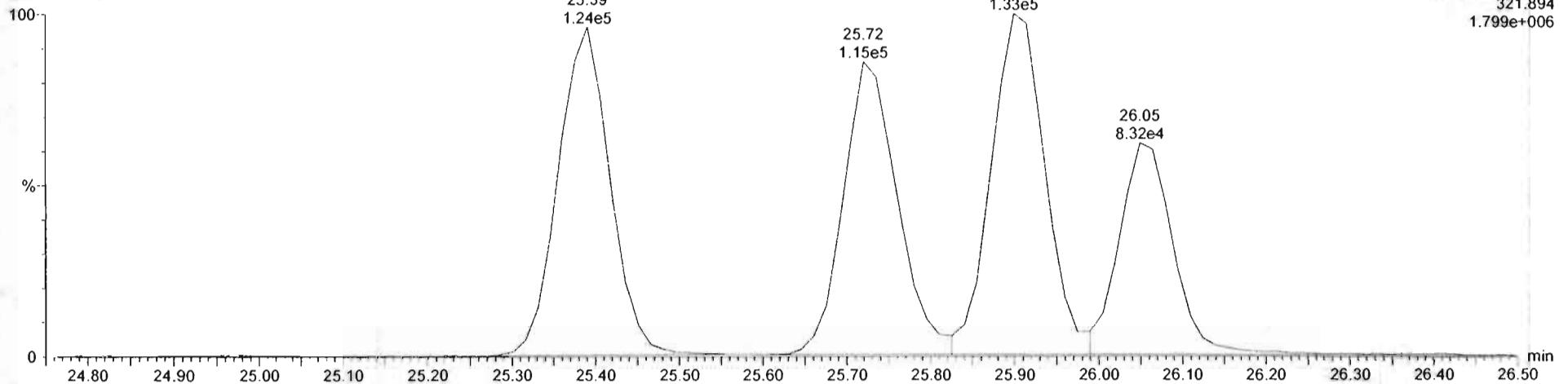
1,3,6,8-TCDD (First)
200429R2_4

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

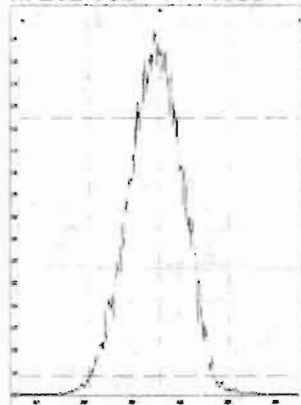
Compound name: 2,3,7,8-TCDD

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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

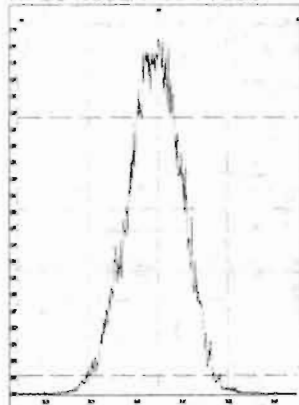
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Printed: Wednesday, April 29, 2020 13:21:30 Pacific Daylight Time

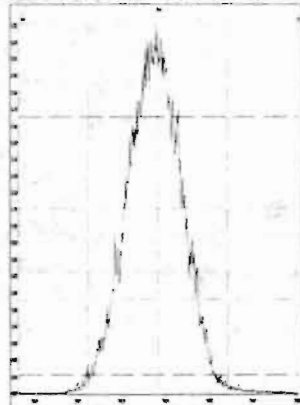
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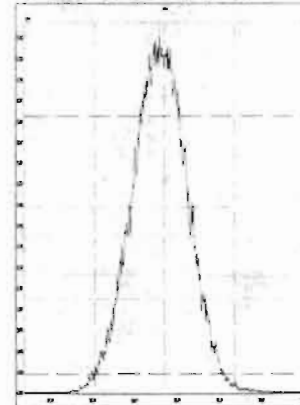
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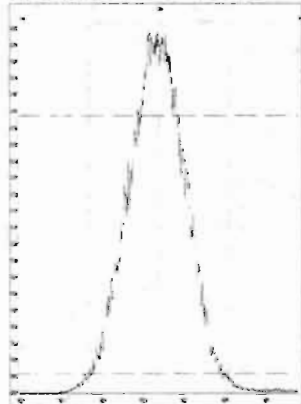
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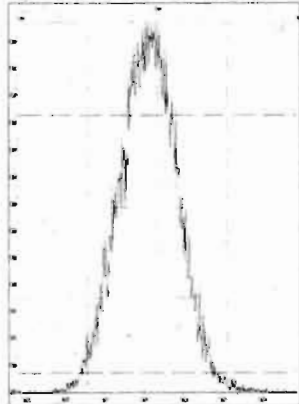
M 330.9792 R 11311



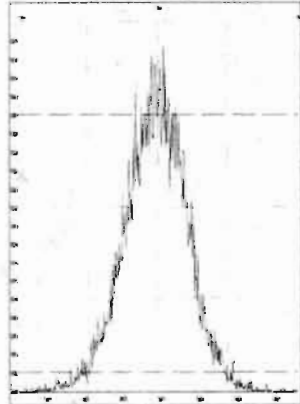
M 342.9792 R 10772



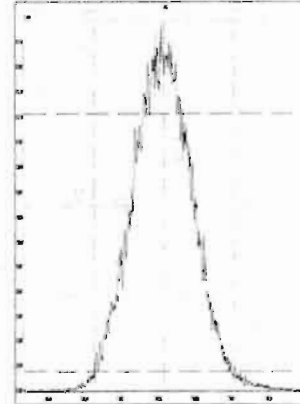
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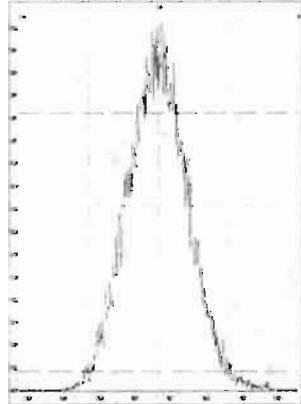
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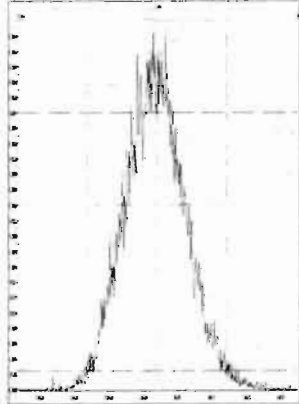
M 380.9760 R 10288



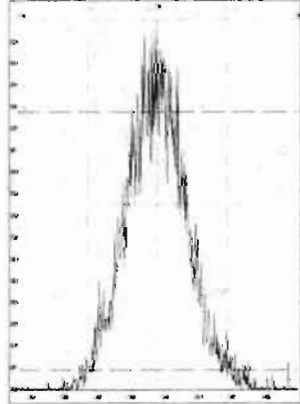
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M 404.9760 R 10417



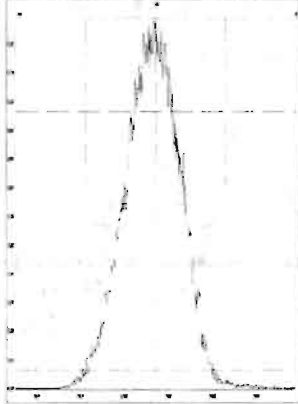
M 416.9760 R 10964



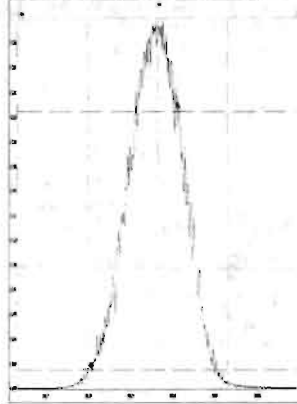
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Printed: Wednesday, April 29, 2020 13:22:18 Pacific Daylight Time

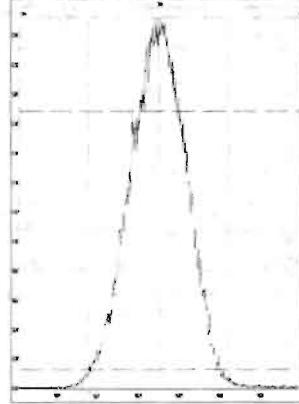
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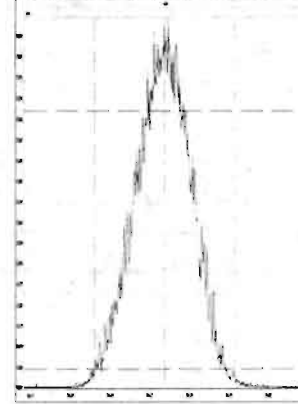
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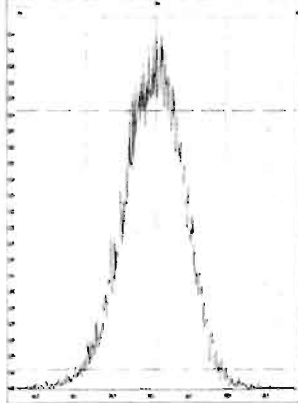
M 342.9792 R 10824



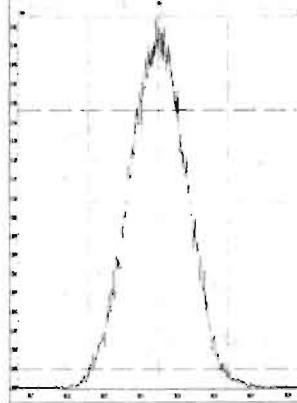
M 354.9792 R 11312



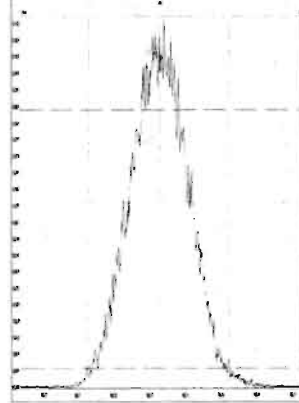
M 366.9792 R 10371



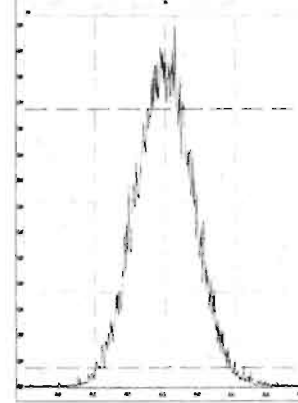
M 380.9760 R 10772



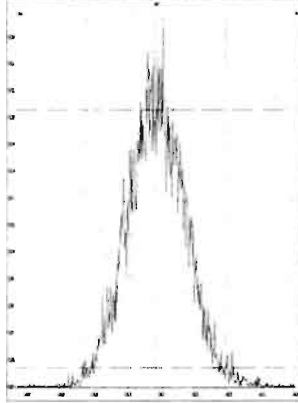
M 392.9760 R 10916



M 404.9760 R 10370



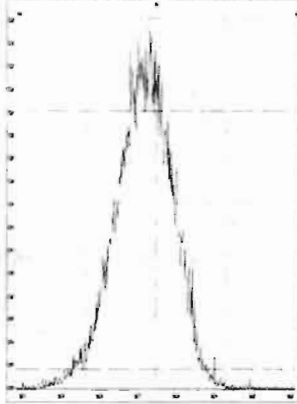
M 416.9760 R 10916



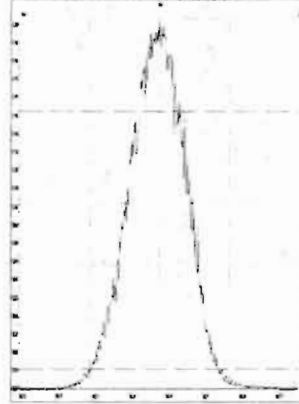
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Printed: Wednesday, April 29, 2020 13:22:48 Pacific Daylight Time

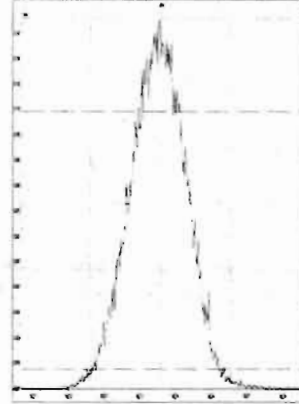
M 366.9792 R 11519



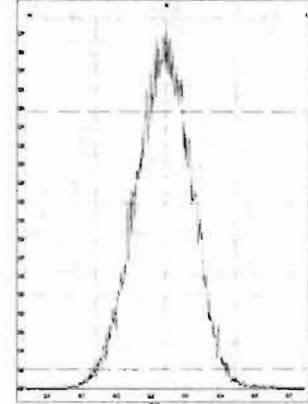
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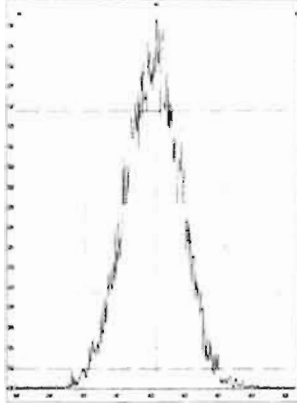
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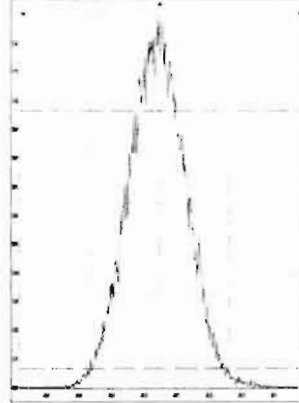
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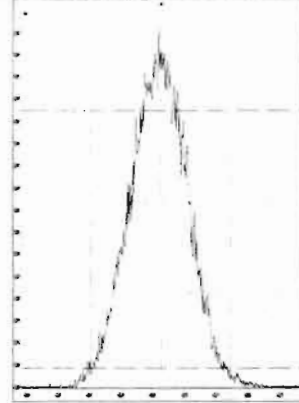
M 416.9760 R 11210



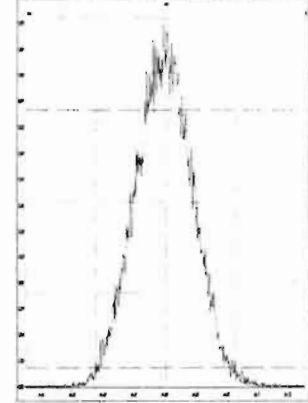
M 430.9728 R 10637



M 442.9728 R 10917



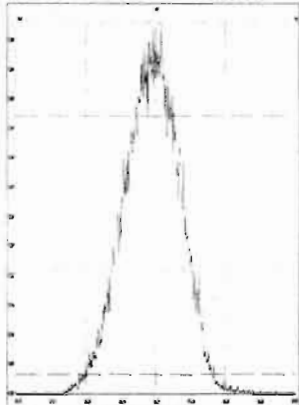
M 454.9728 R 10683



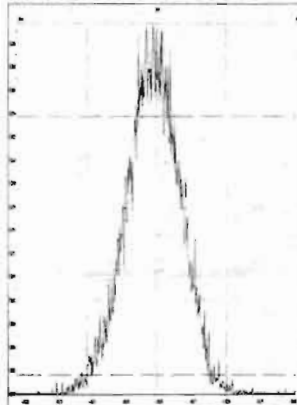
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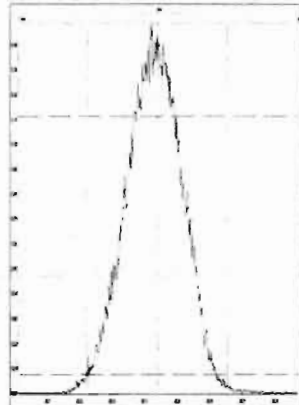
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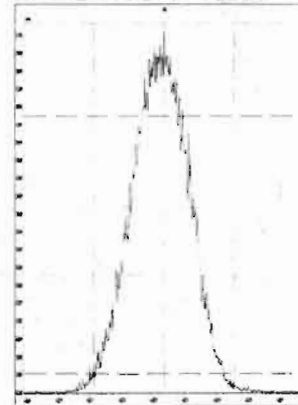
M 416.9760 R 11313



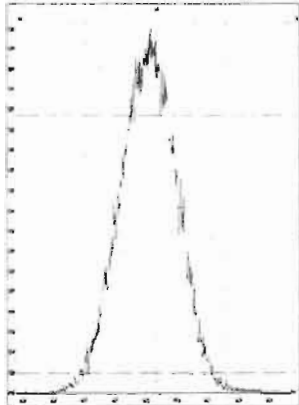
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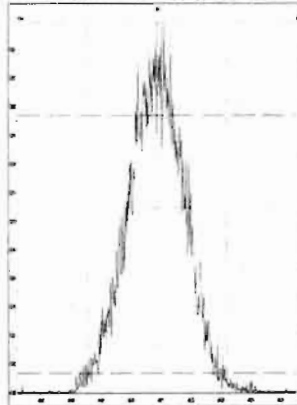
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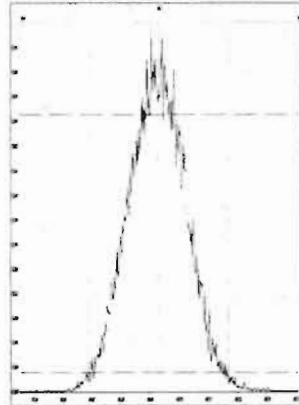
M 454.9728 R 10729



M 466.9728 R 11846



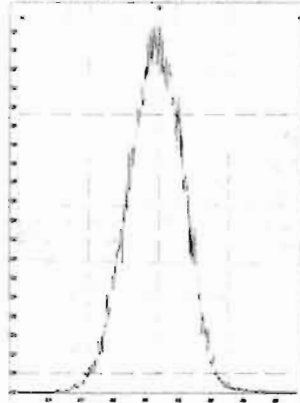
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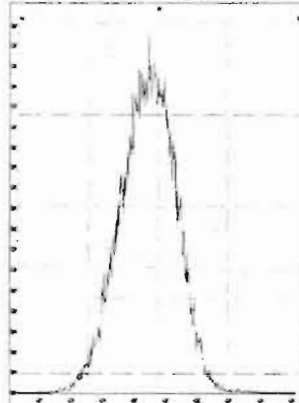
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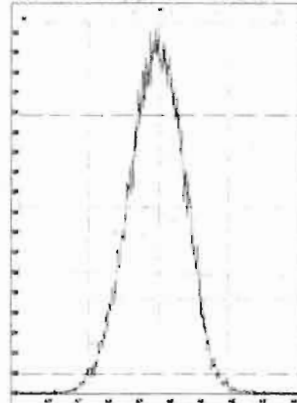
M 430.9728 R 11108



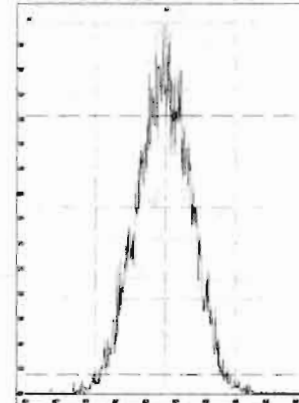
M 442.9728 R 11520



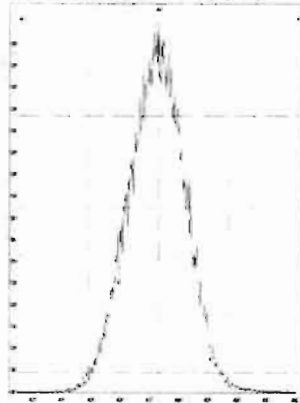
M 454.9728 R 11522



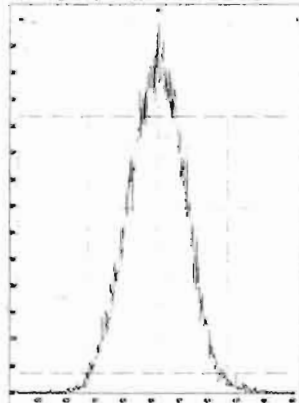
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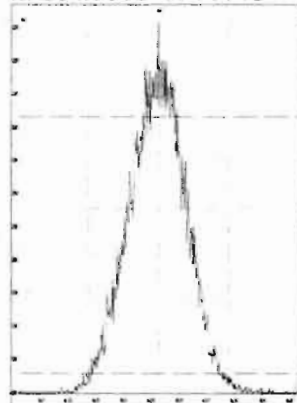
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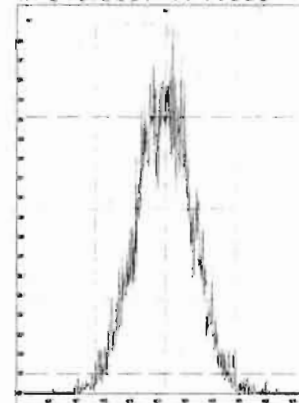
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M 504.9696 R 11110



M 516.9697 R 11365



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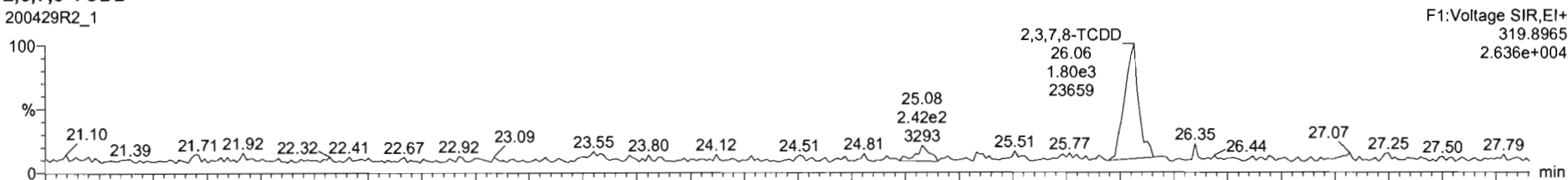
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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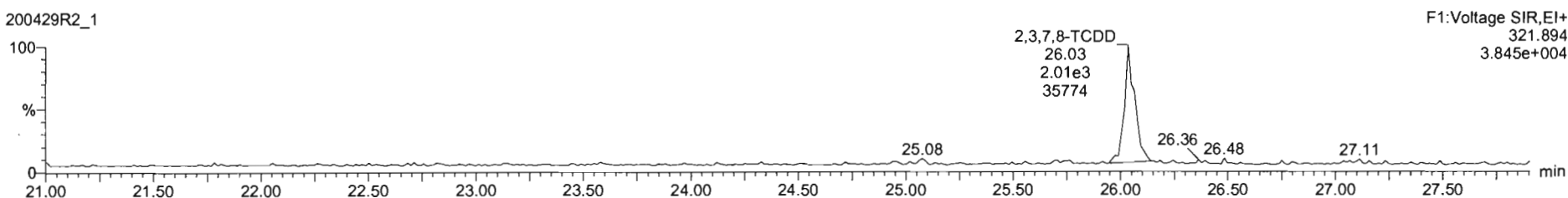
Name: 200429R2_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDD

200429R2_1

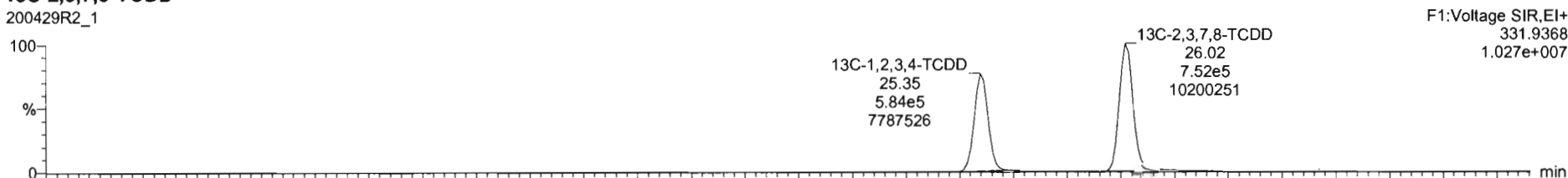


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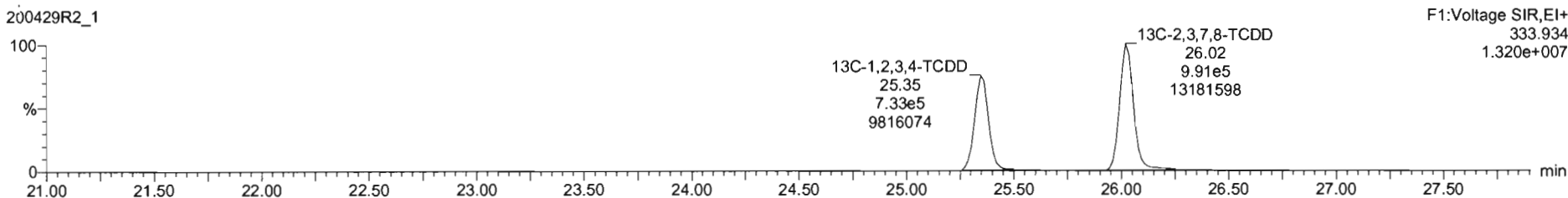


13C-2,3,7,8-TCDD

200429R2_1

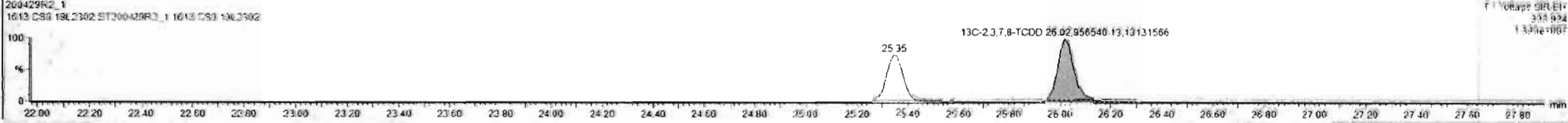
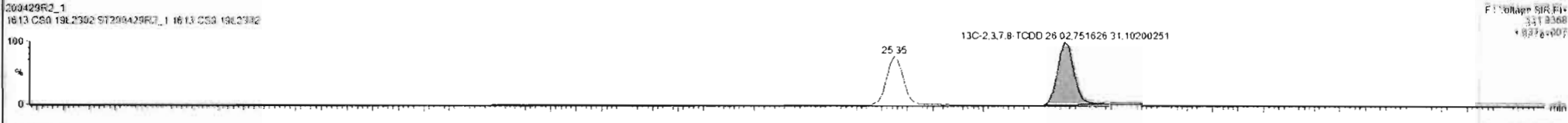
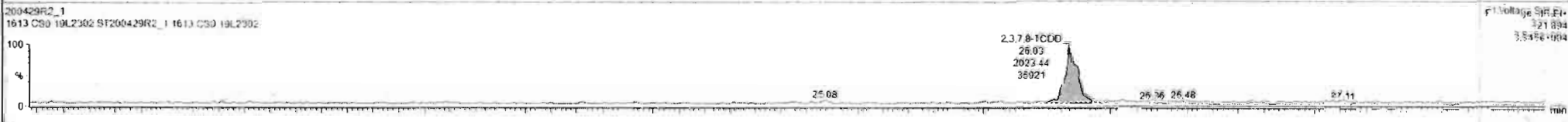
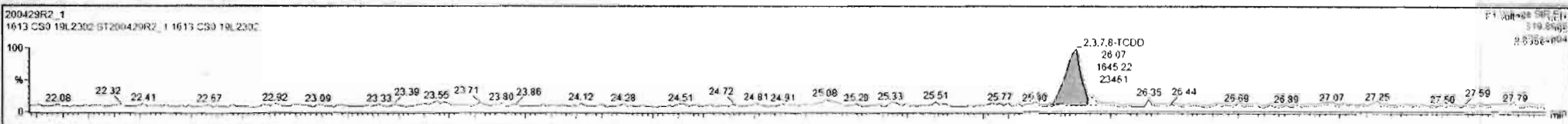


200429R2_1



200429R2_1 - ST200429R2_1 1613 CS0 19L2302 - 1613 CS0 19L2302

#	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	0.923	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	0.0668
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



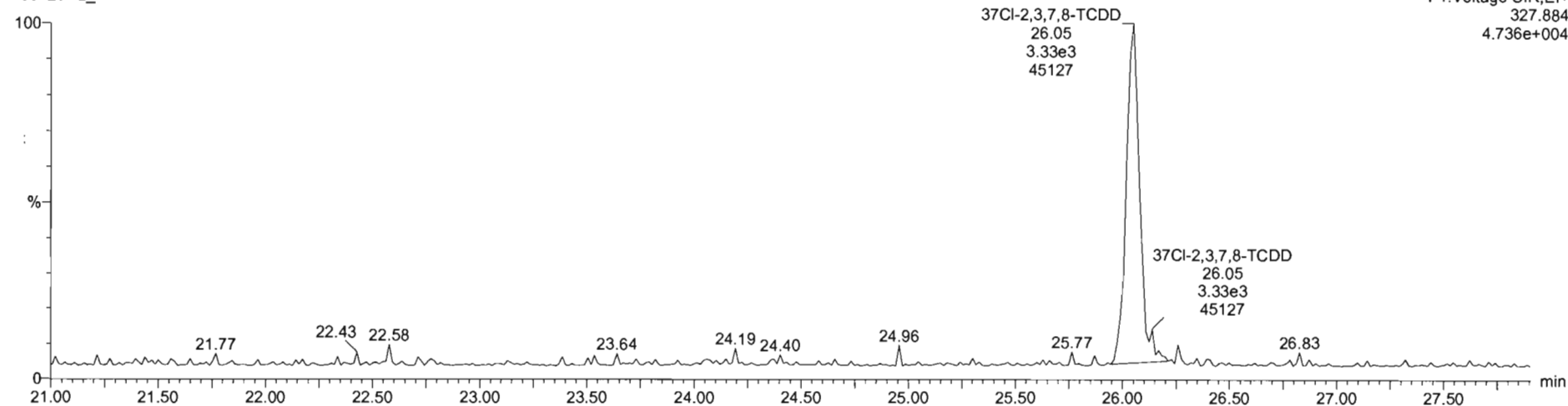
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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

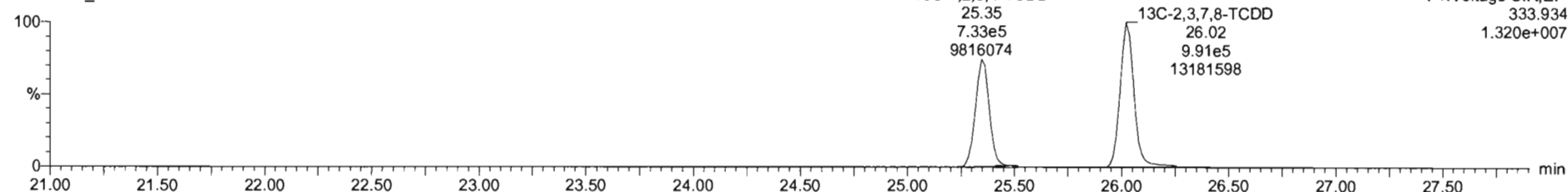


13C-1,2,3,4-TCDD

200429R2_1



200429R2_1



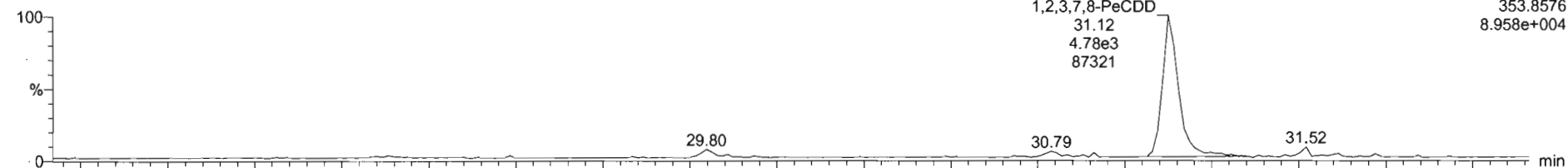
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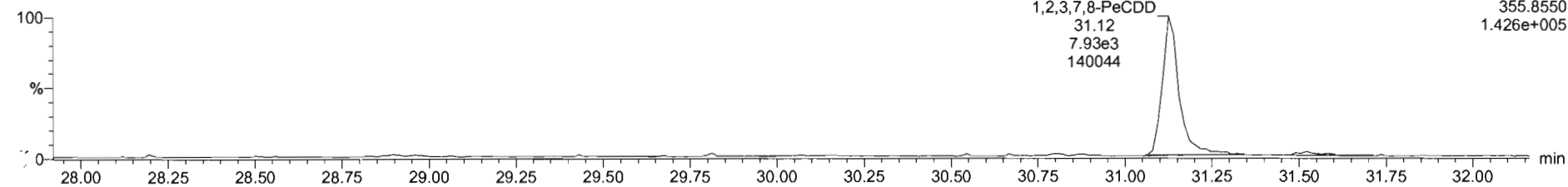
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1,2,3,7,8-PeCDD

200429R2_1

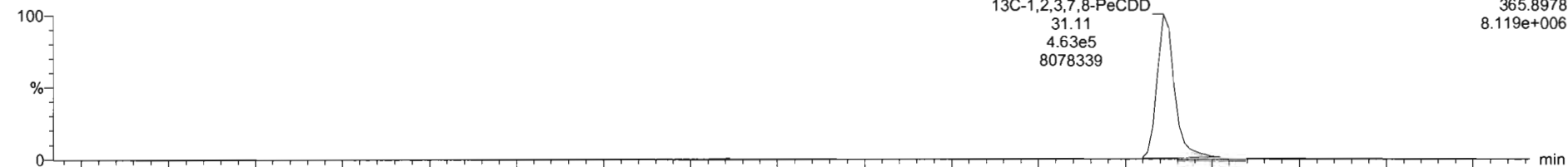


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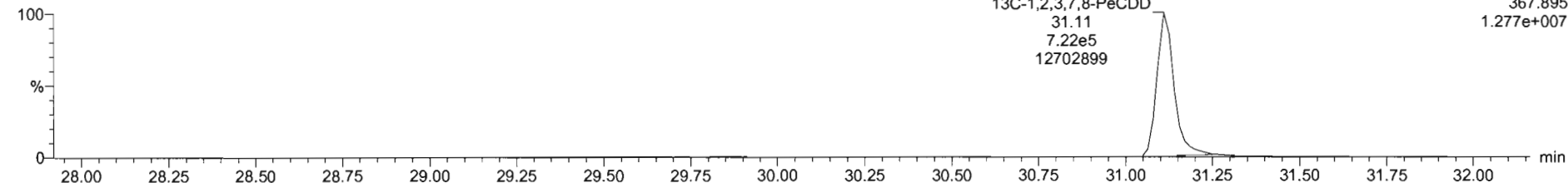


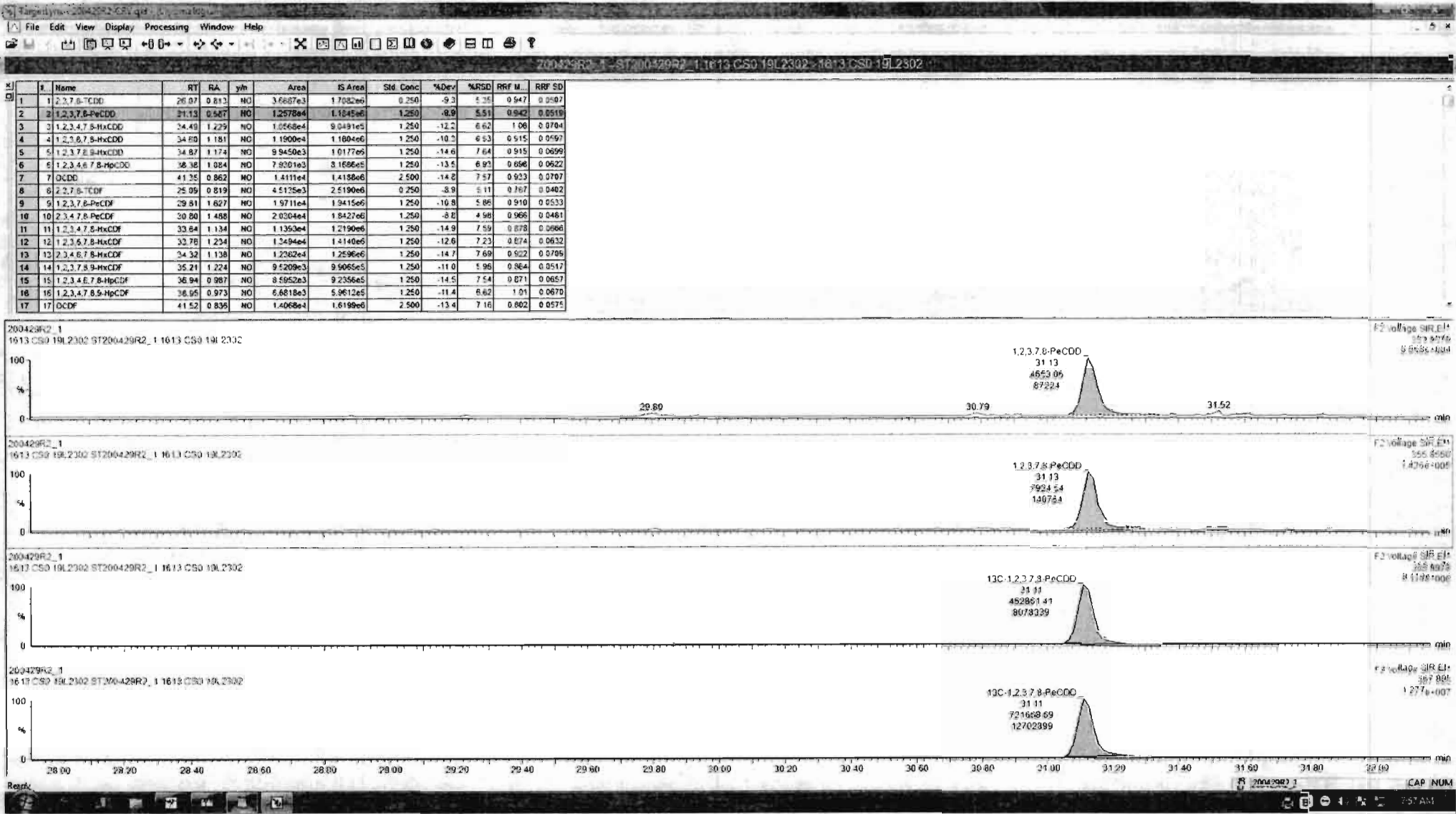
13C-1,2,3,7,8-PeCDD

200429R2_1



200429R2_1





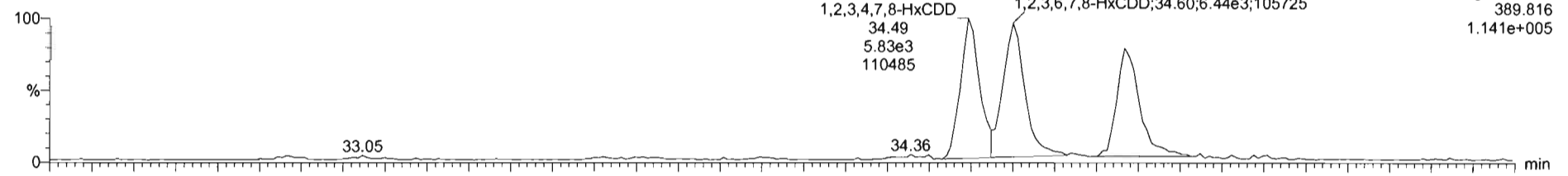
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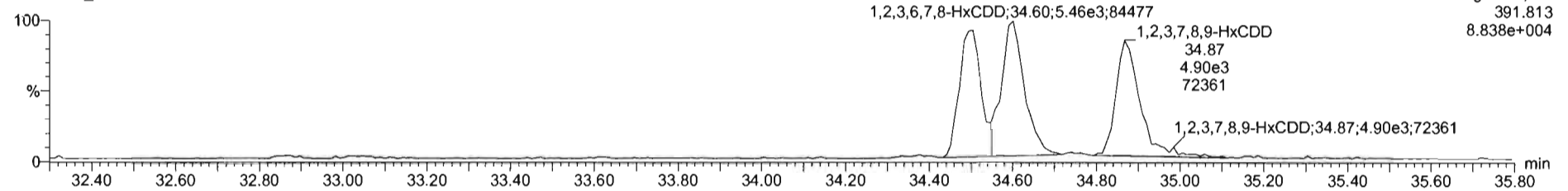
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1,2,3,4,7,8-HxCDD

200429R2_1

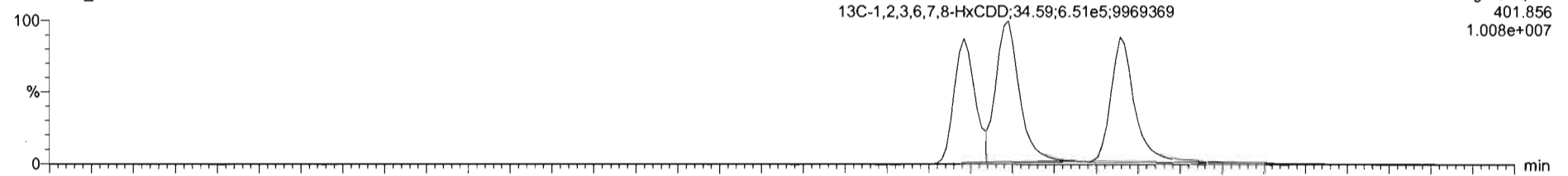


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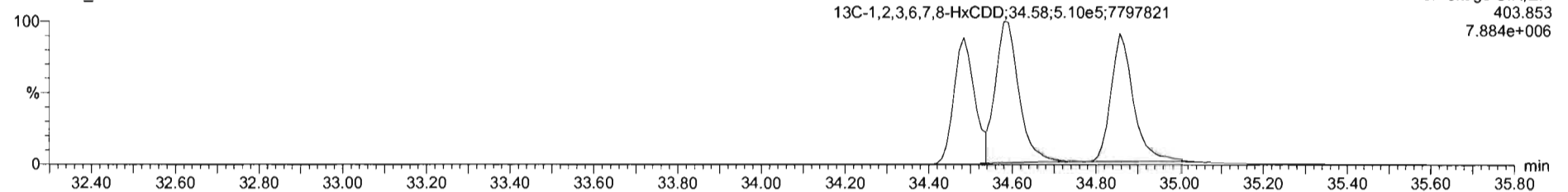


13C-1,2,3,4,7,8-HxCDD

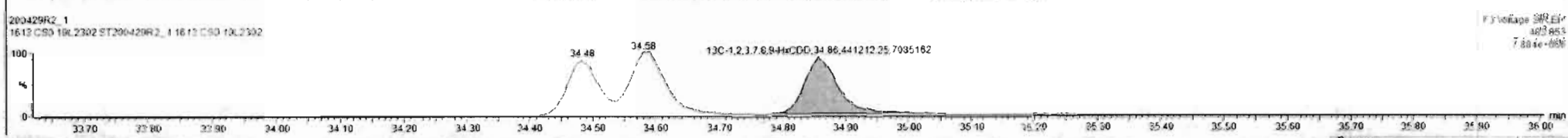
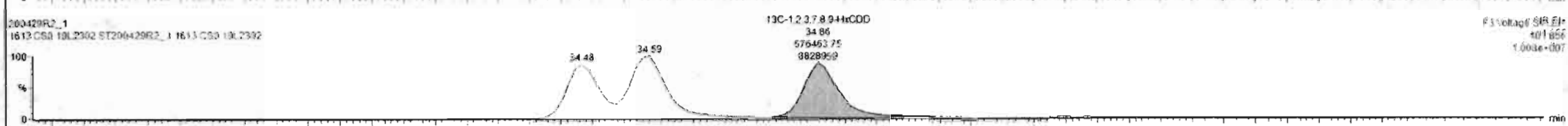
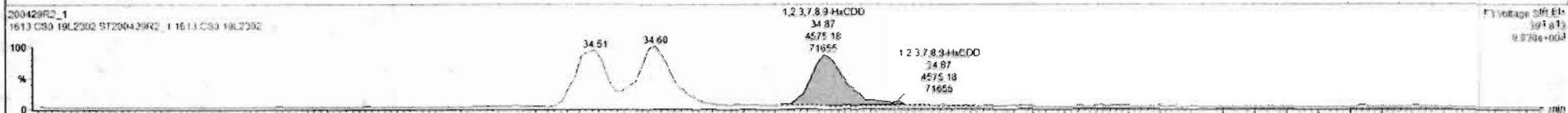
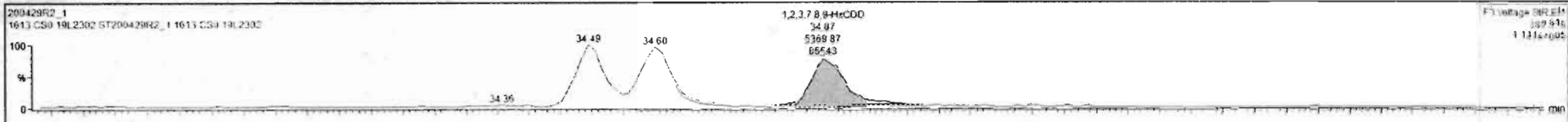
200429R2_1



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	0.0590
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	OCDF	41.52	0.836	NO	1.4066e4	1.6189e6	2.500	-13.4	7.16	0.802	0.0575



Dataset: Untitled

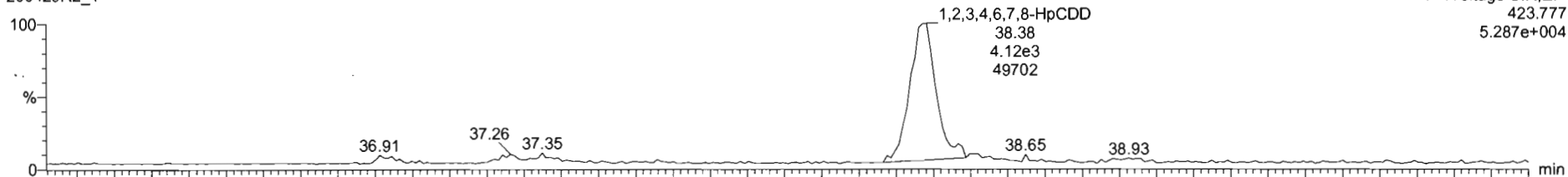
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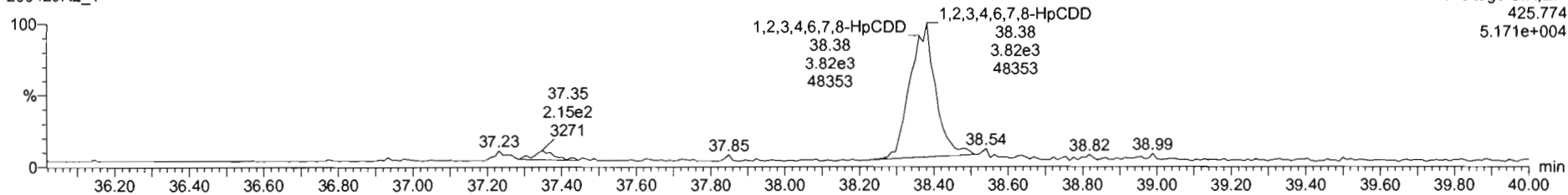
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1,2,3,4,6,7,8-HpCDD

200429R2_1

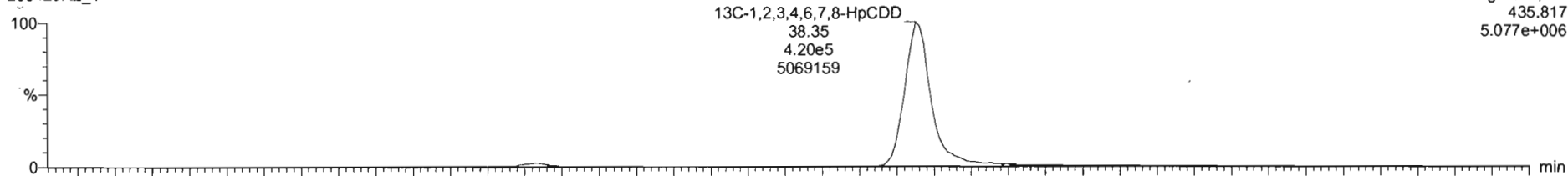


200429R2_1

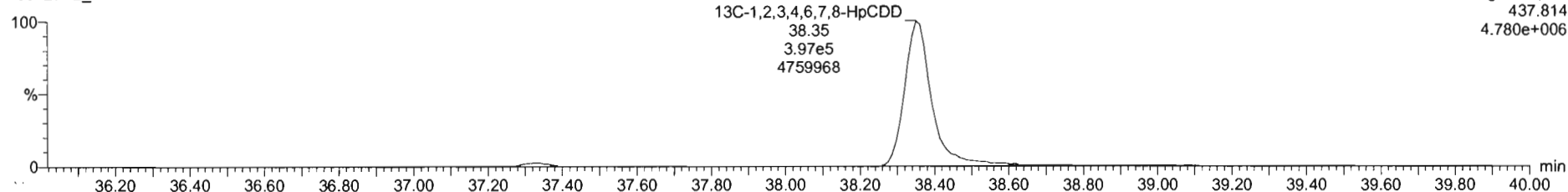


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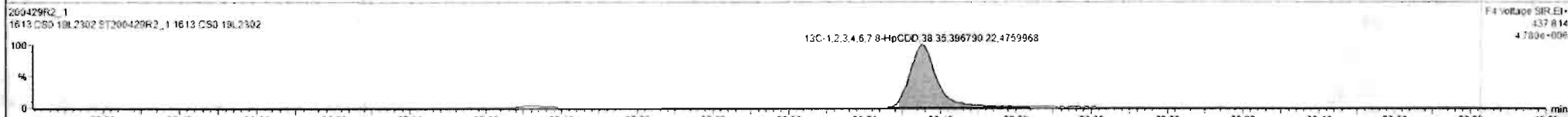
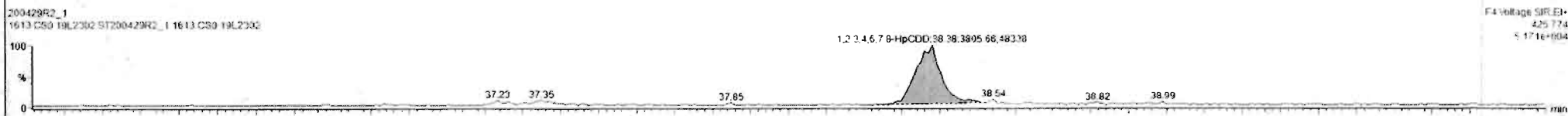
200429R2_1



200429R2_1



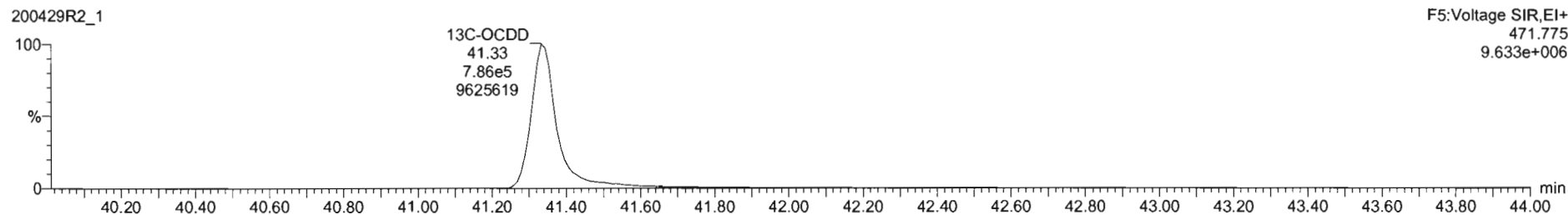
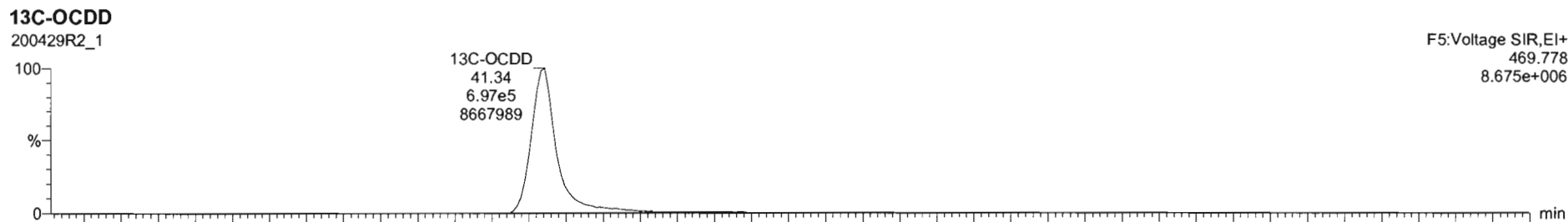
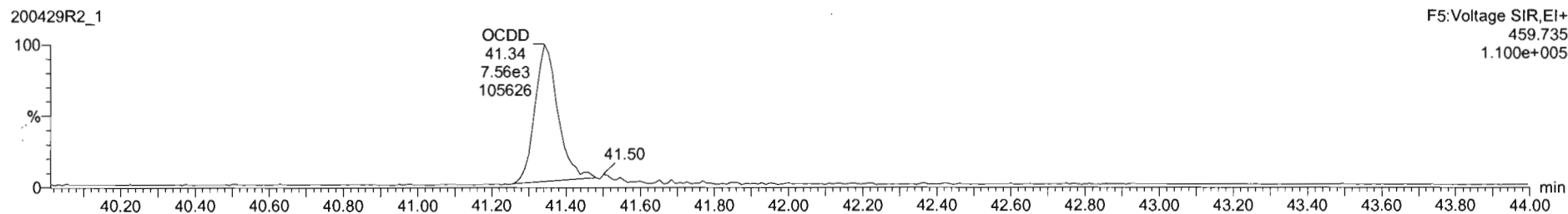
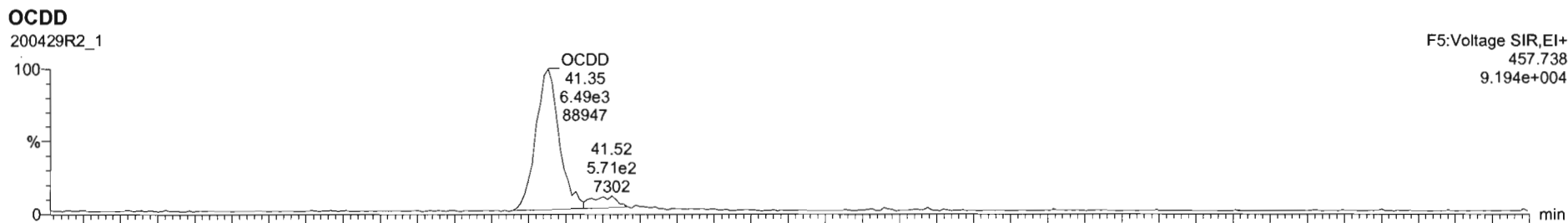
#	Name	RT	RA	y/h	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,6-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	5.25	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1846e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.6491e5	1.250	-12.2	6.62	1.06	0.0704
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	1.0117e6	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	1,2,3,7,8-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	5.66	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0304e4	1.8427e6	1.250	-8.8	4.98	0.966	0.0481
11	1,2,3,4,7,8-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	1,2,3,4,6,7,8-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	36.94	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



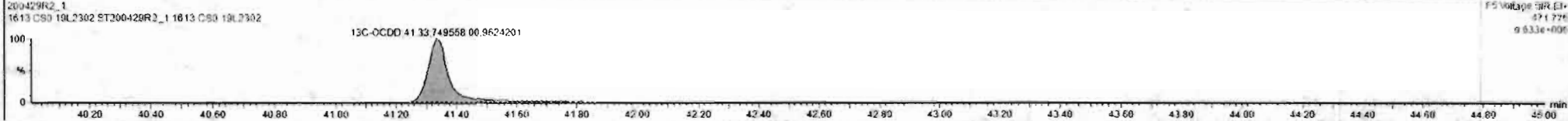
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



#	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	1.1933e4	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



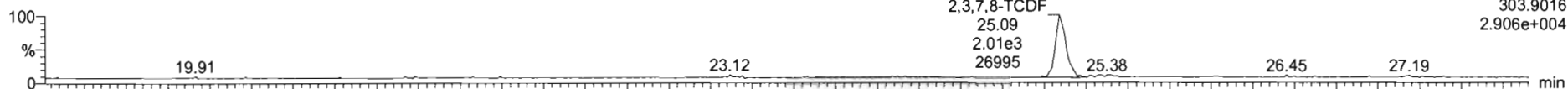
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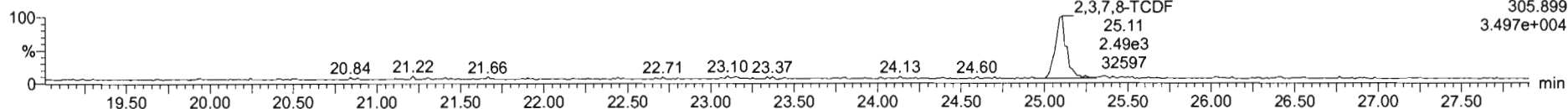
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2,3,7,8-TCDF

200429R2_1

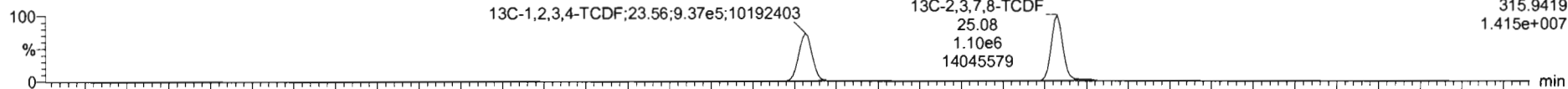


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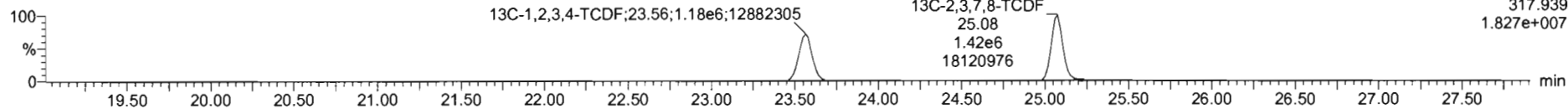


13C-2,3,7,8-TCDF

200429R2_1

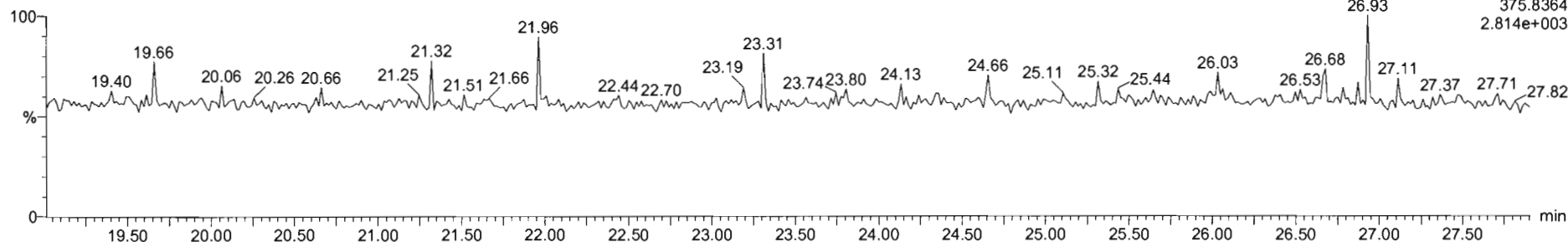


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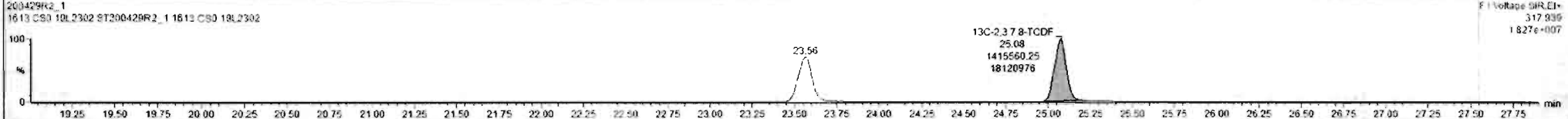
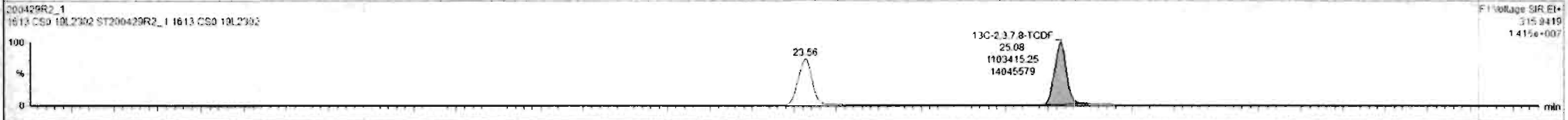
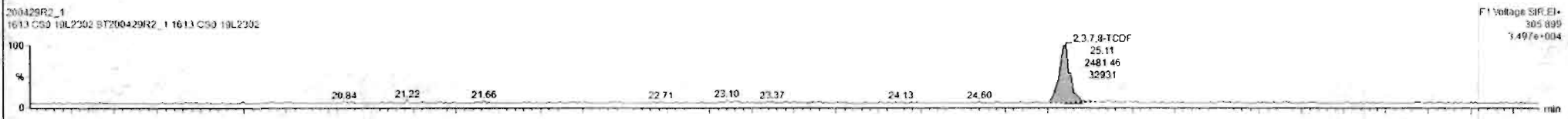
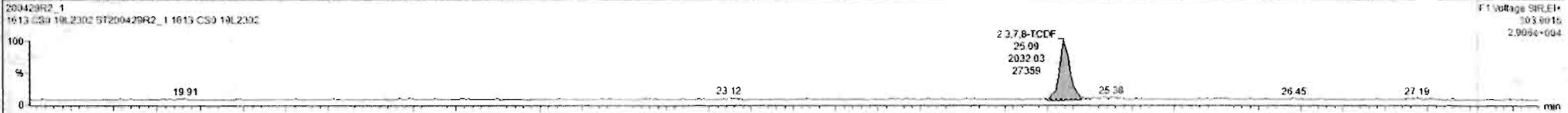


DPE1

200429R2_1



#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDF	25.07	0.813	NO	3.6607e3	1.7032e6	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	0.696	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	-10.5	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.60	1.488	NO	2.0204e4	1.6427e6	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	33.76	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	9.9055e5	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	0.0557
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8018e3	5.9612e5	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



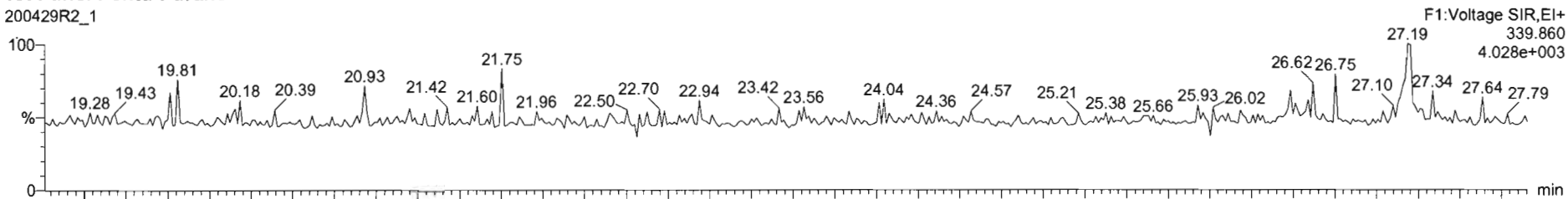
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

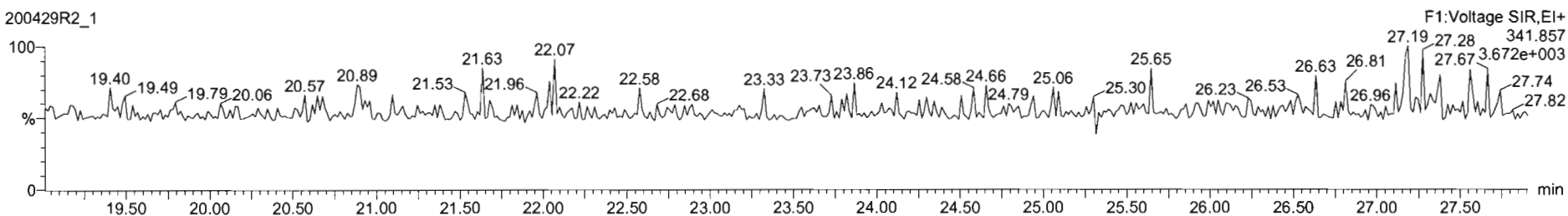
Name: 200429R2_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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200429R2_1

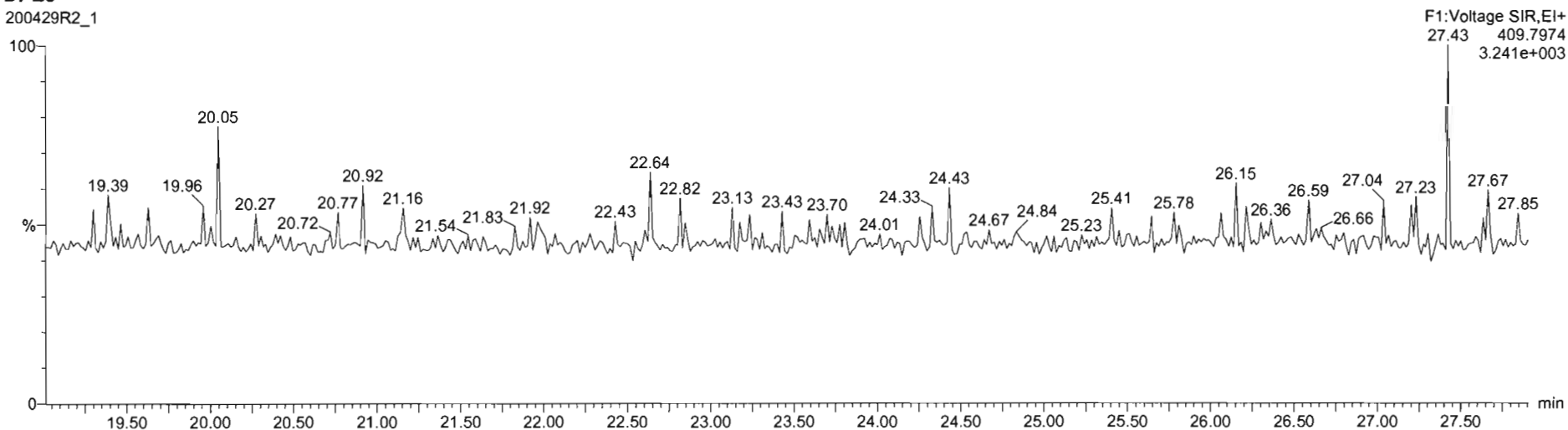


200429R2_1



DPE6

200429R2_1

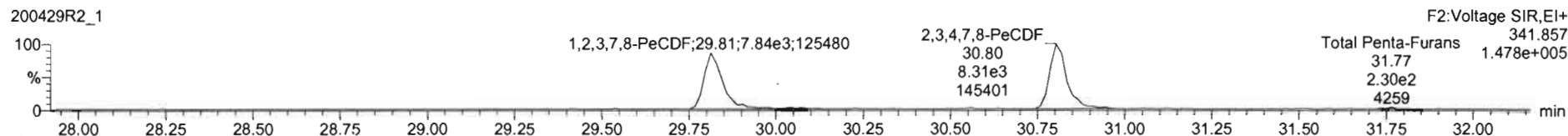
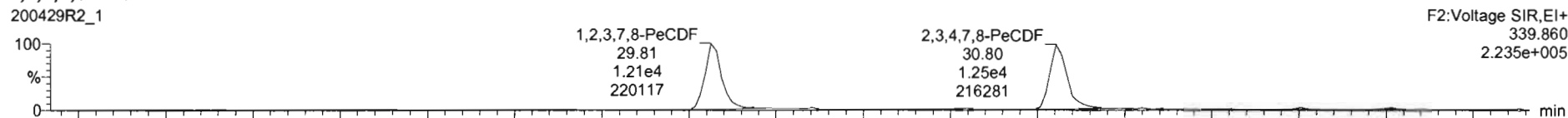


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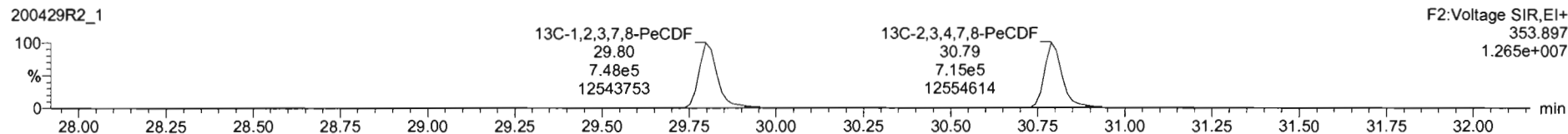
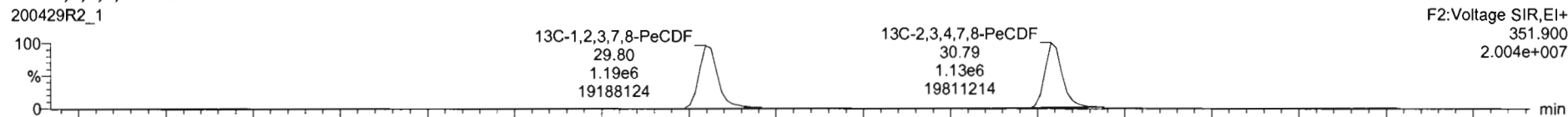
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

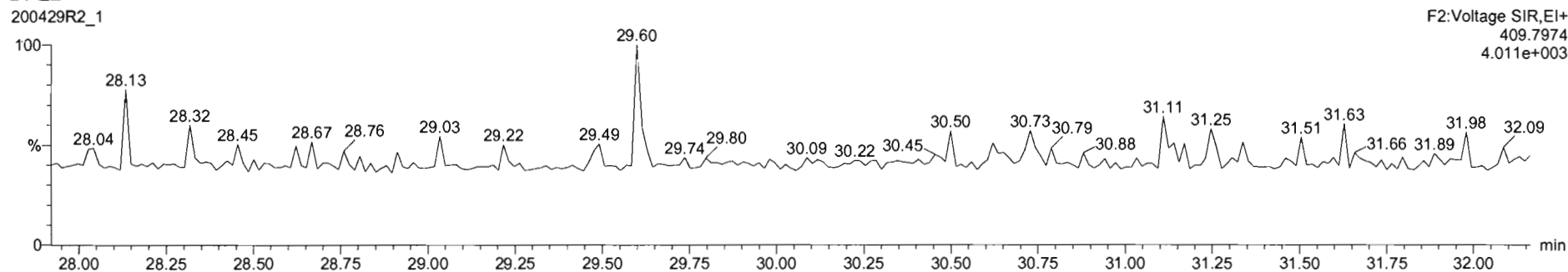
1,2,3,7,8-PeCDF



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

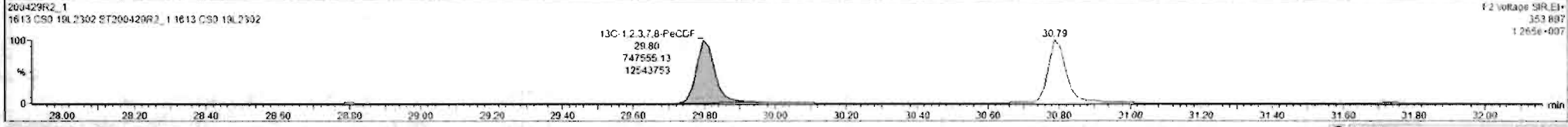
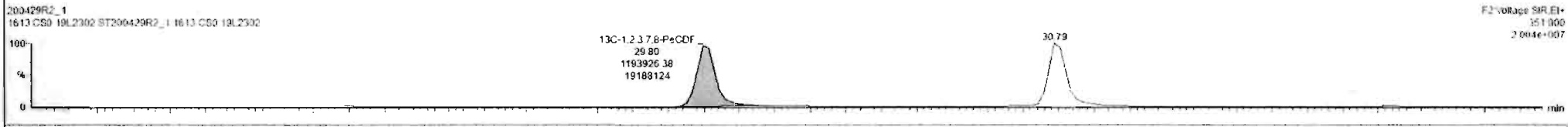
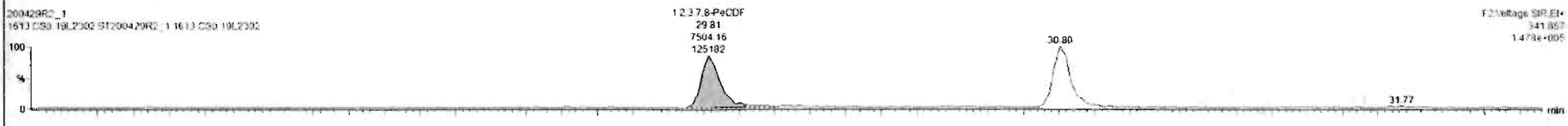
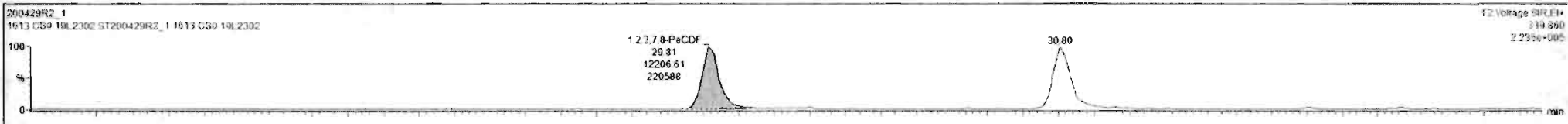


DPE2



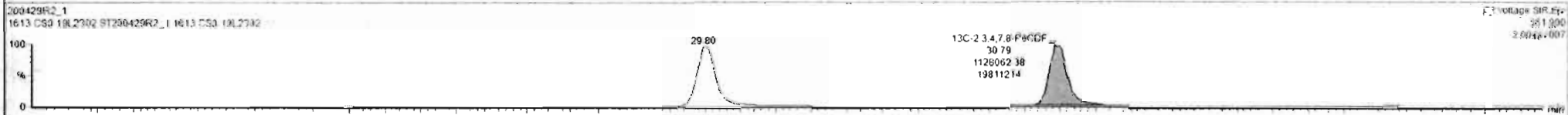
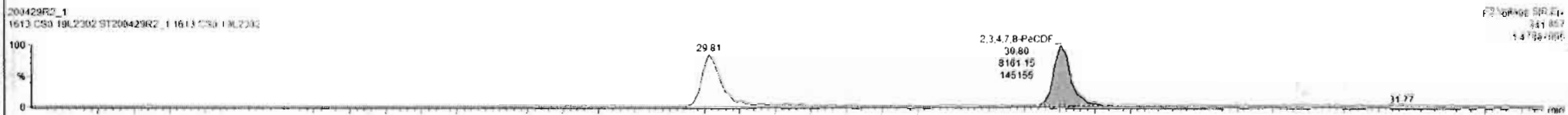
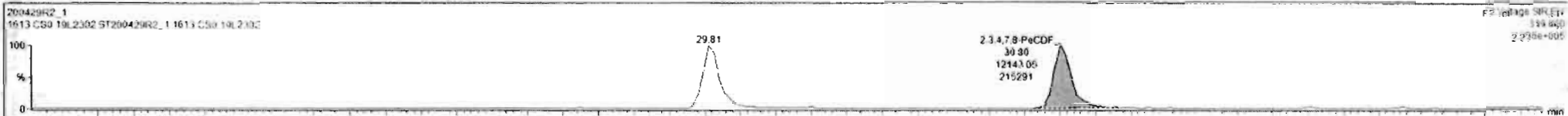
200429R2_1 - ST200429R2_1 1613 CS0 19L2302 - 1613 CS0 19L2302

#	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	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	7.9201e3	8.1686e5	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	0.923	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	1.9427e6	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	8.6952e3	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	1.7082e0	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e0	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	9.0491e0	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	1.1804e0	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	1.0177e0	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	8.1686e0	1.250	-13.5	6.93	0.856	0.0632
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e0	2.500	-14.8	7.57	0.933	0.0767
8	2,3,7,8-TCDF	25.09	0.519	NO	4.5135e3	2.5190e0	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e0	1.250	-10.8	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.30	1.488	NO	2.0304e4	1.8427e0	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	1.2190e0	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	1.4140e0	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	1.2596e0	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	9.9065e0	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	9.2356e0	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	5.9612e0	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e0	2.500	-13.4	7.16	0.802	0.0575



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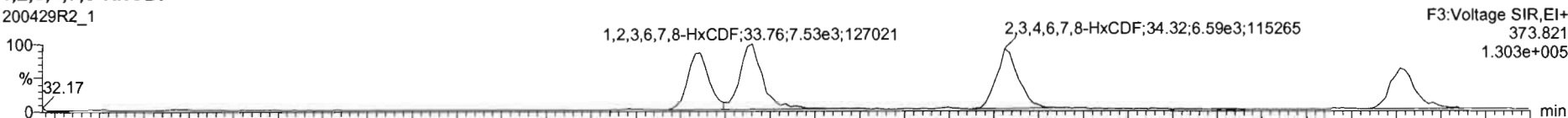
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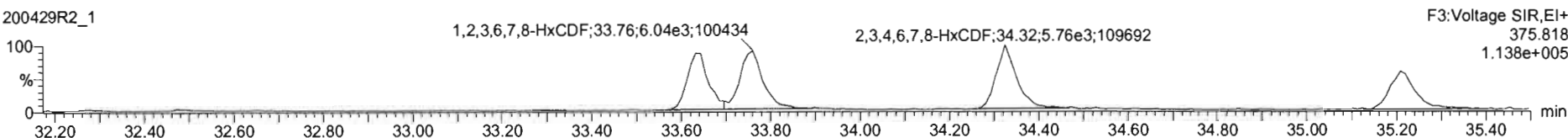
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1,2,3,4,7,8-HxCDF

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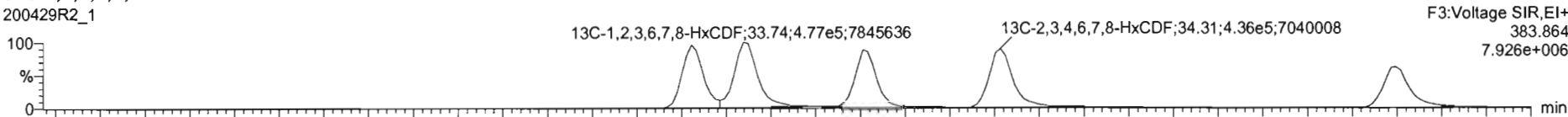


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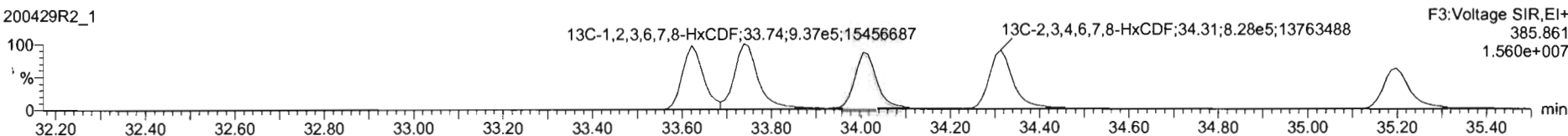


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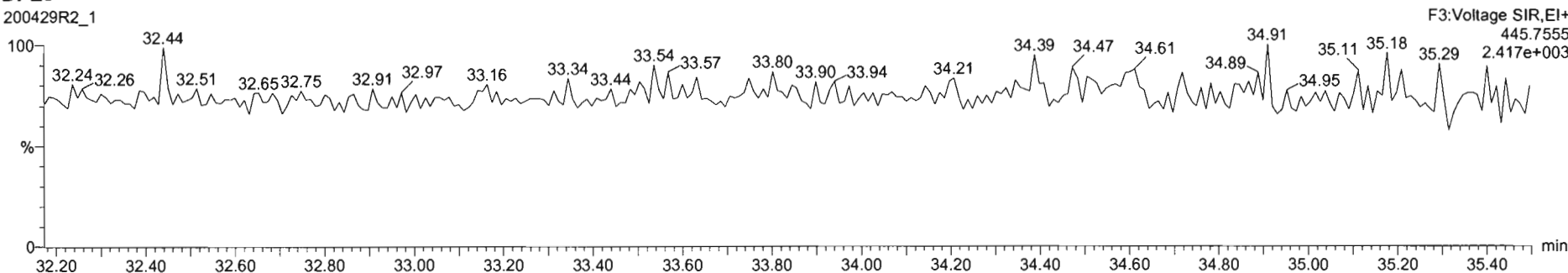


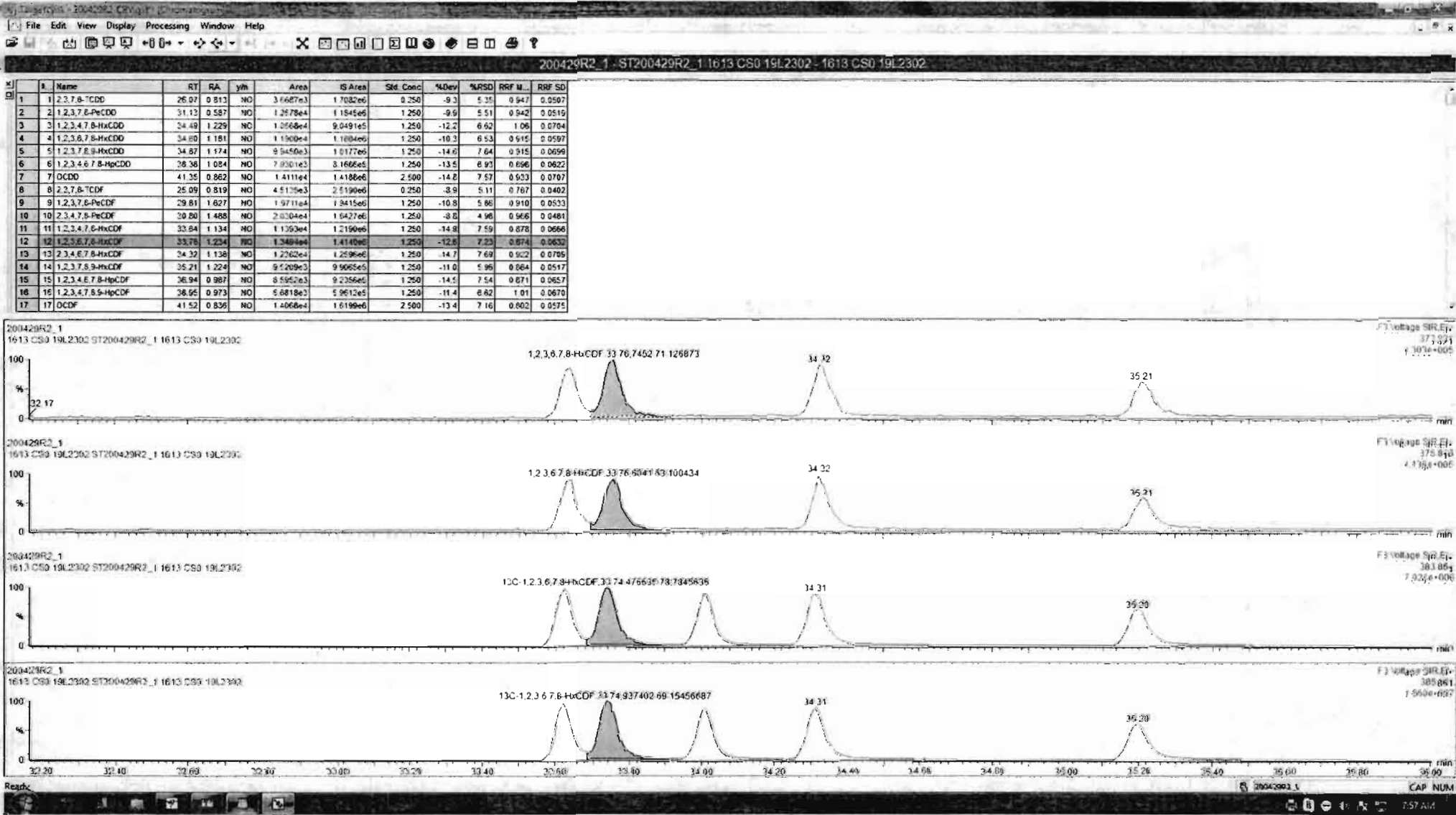
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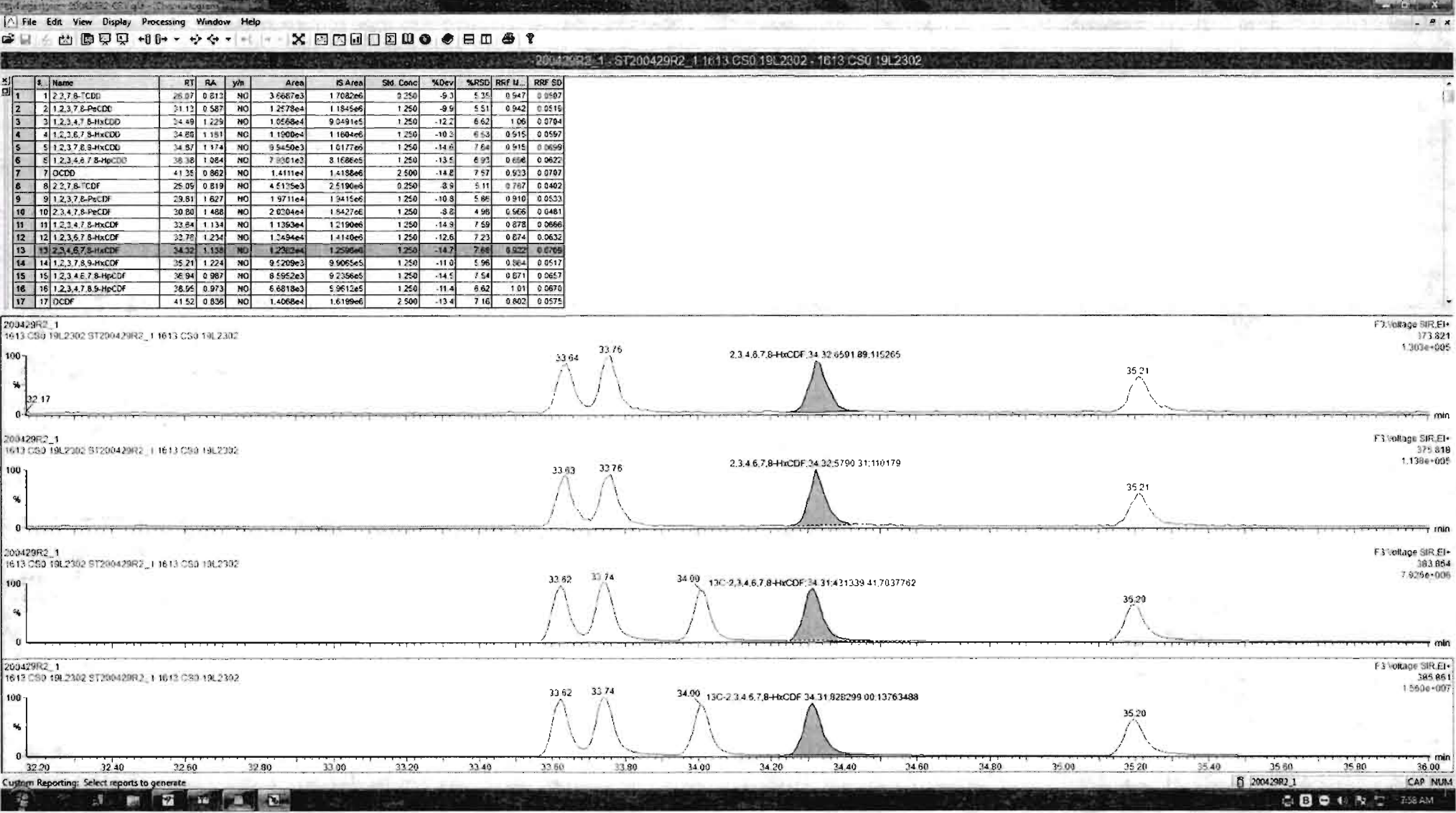


DPE3

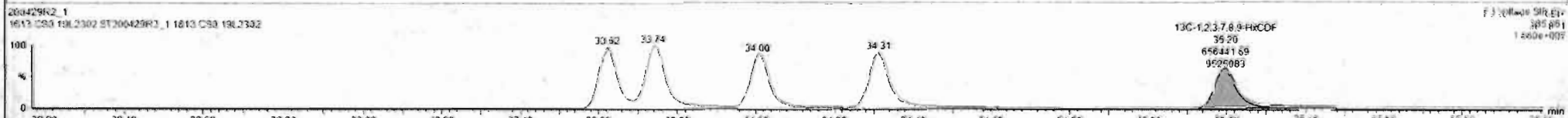
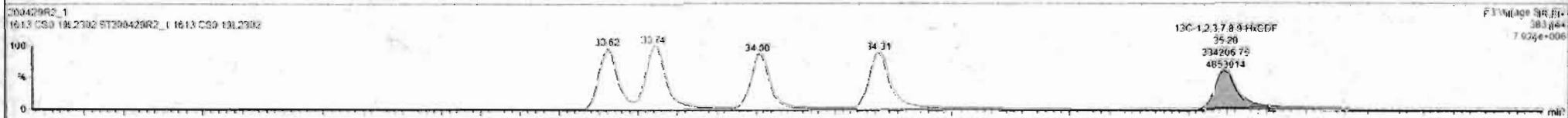
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#	Name	RT	RA	ym	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	6.30	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2178e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	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	1,2,3,7,8,9-HxCDD	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	7.9301e3	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	-14.0	7.57	0.633	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	1,2,3,7,8-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	2.0204e4	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	1.1136e4	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	1.2262e4	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	5.6818e3	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



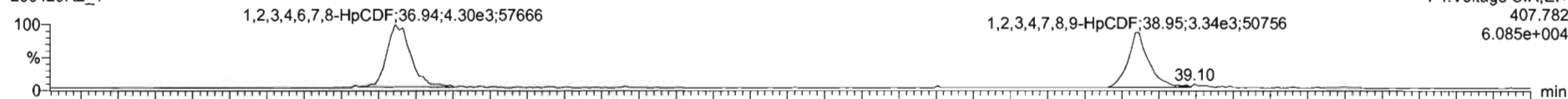
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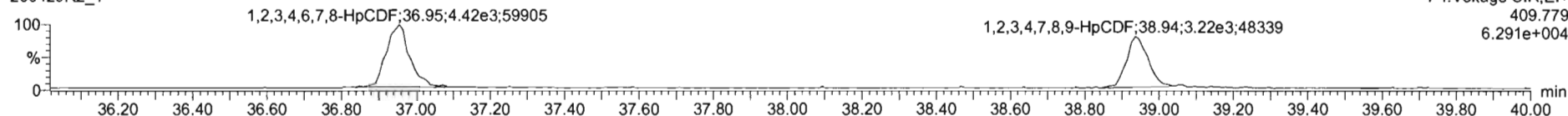
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200429R2_1

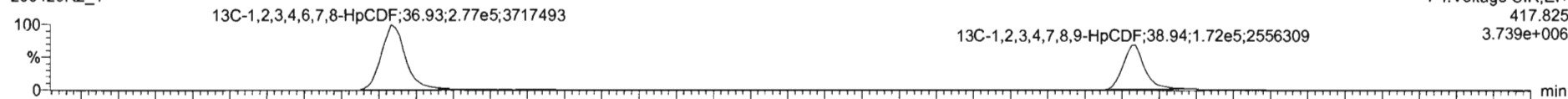


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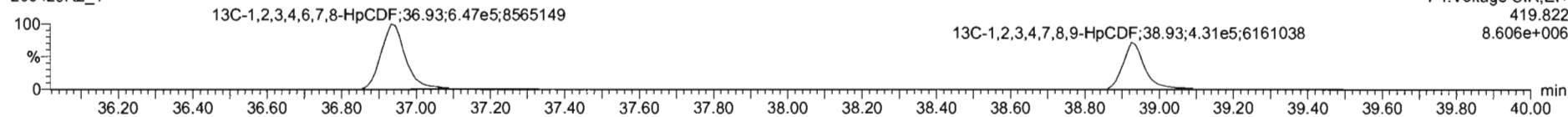


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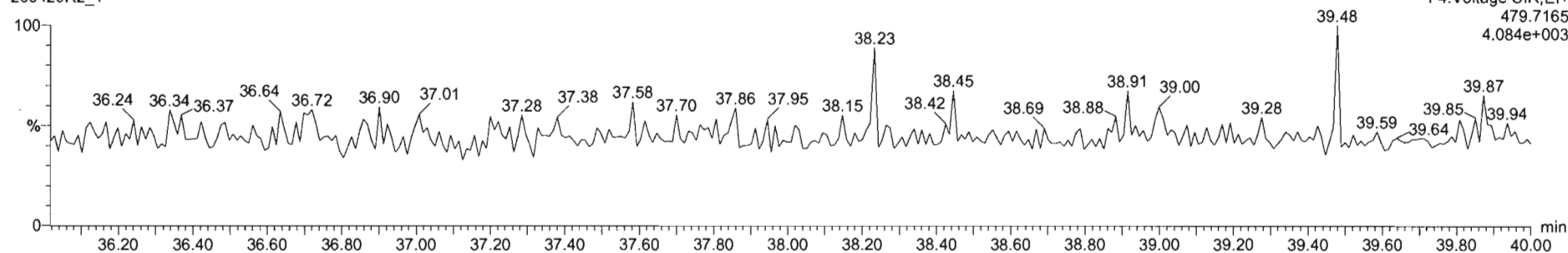


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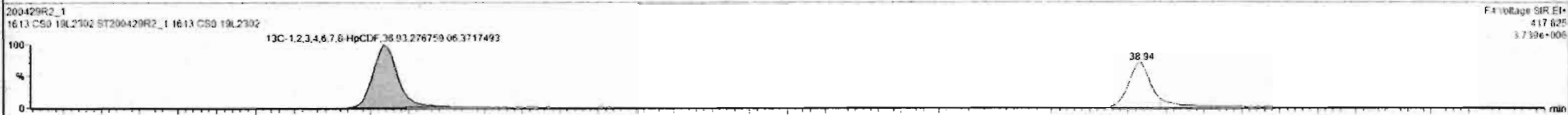
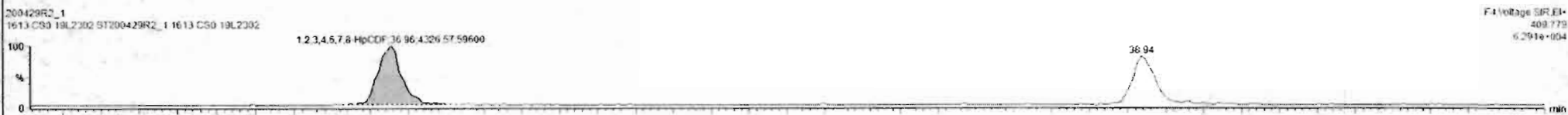
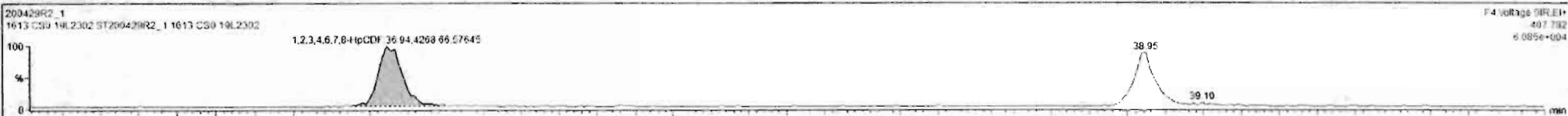


DPE4

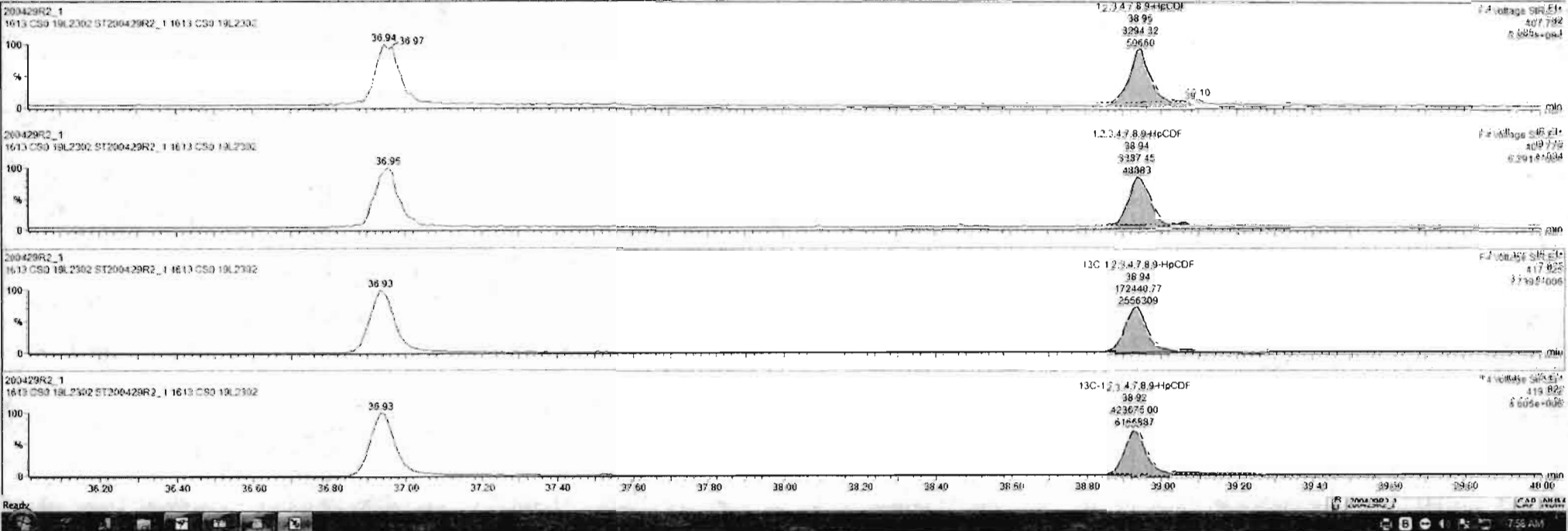
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#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7087e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2678e4	1.1945e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	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	-10.8	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	0.968	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

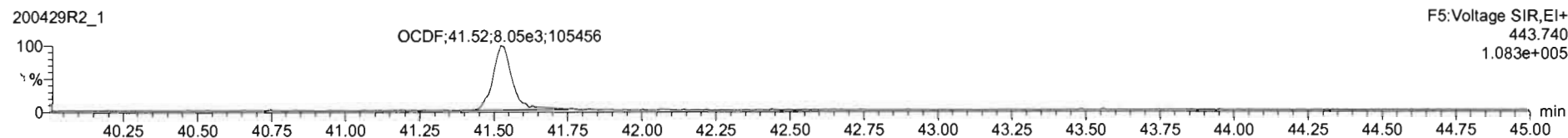


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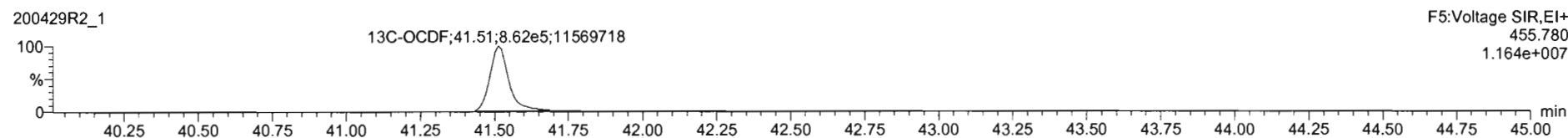
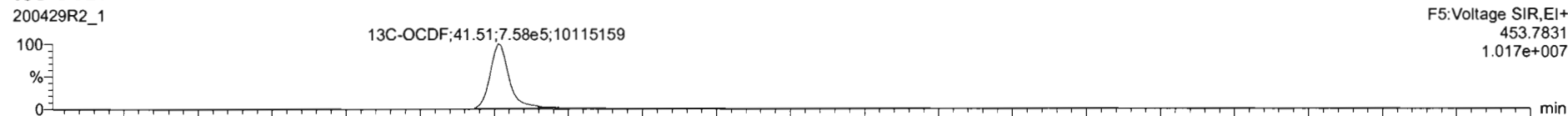
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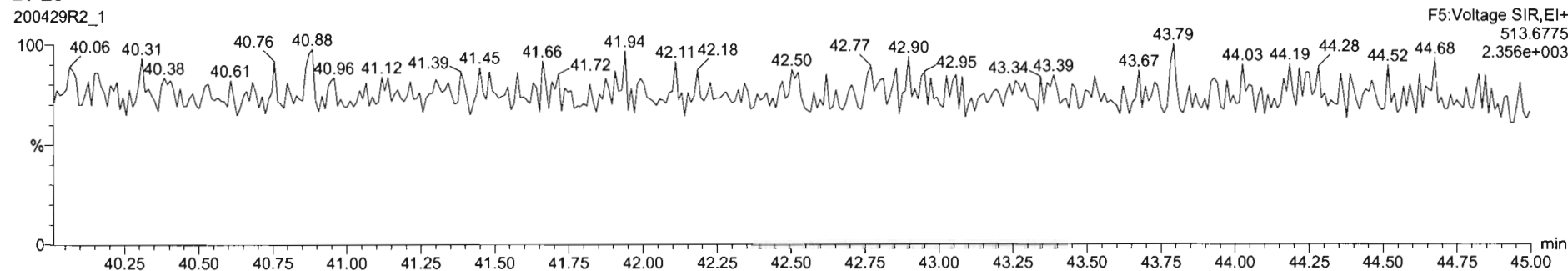
OCDF

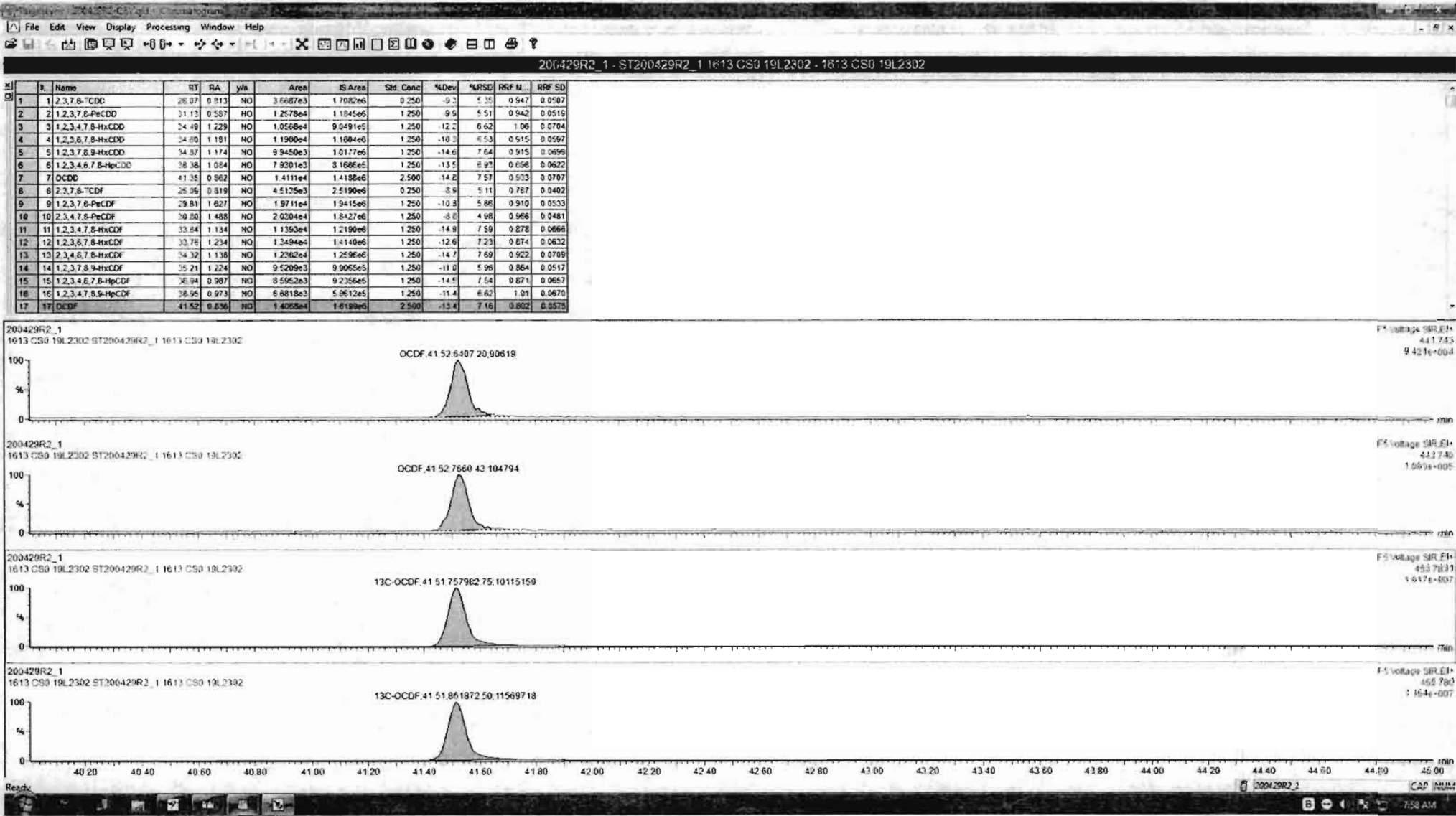


13C-OCDF



DPE5

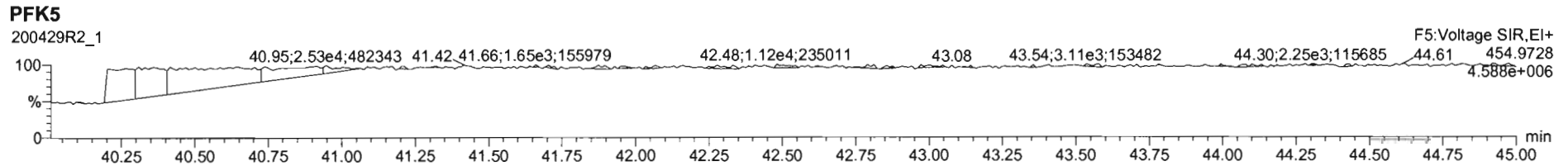
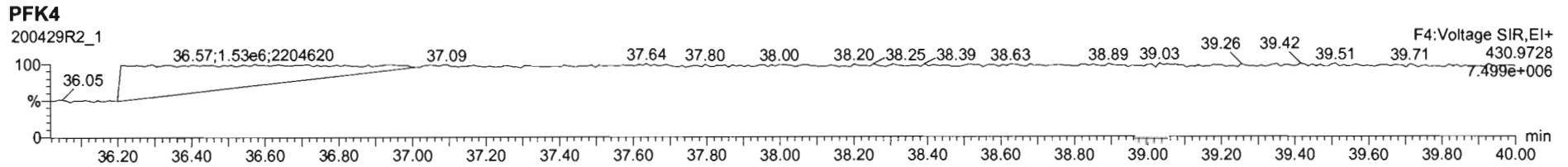
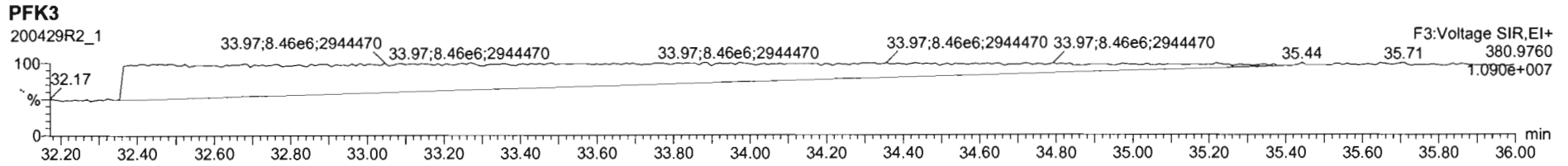
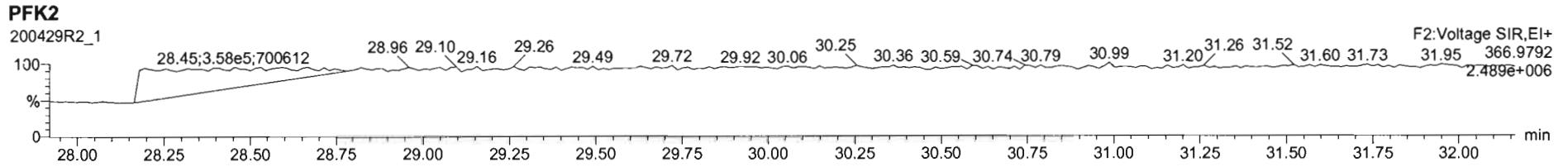
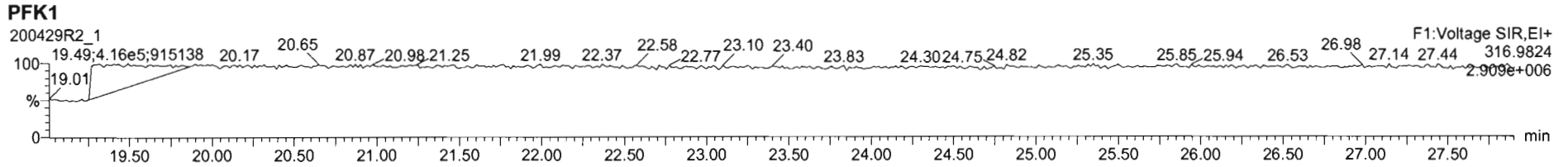




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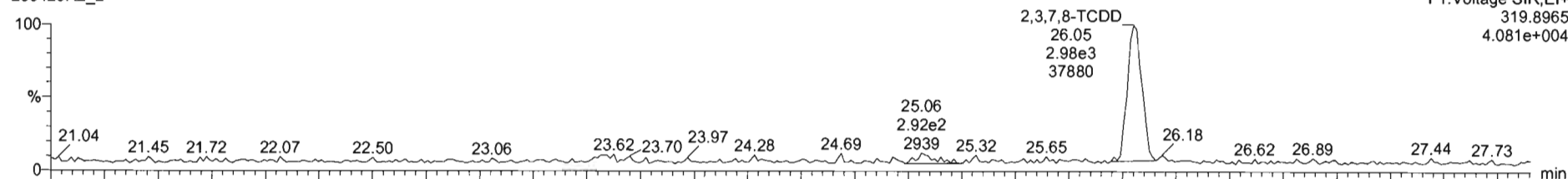
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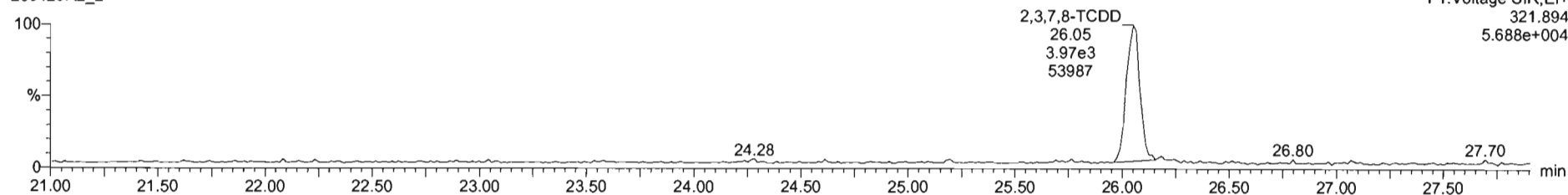
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2,3,7,8-TCDD

200429R2_2

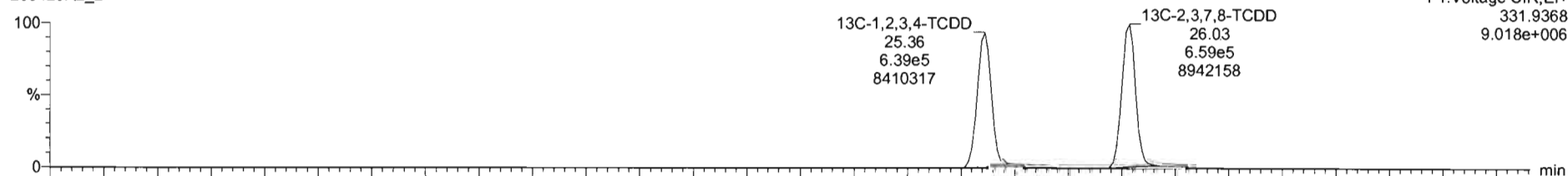


200429R2_2

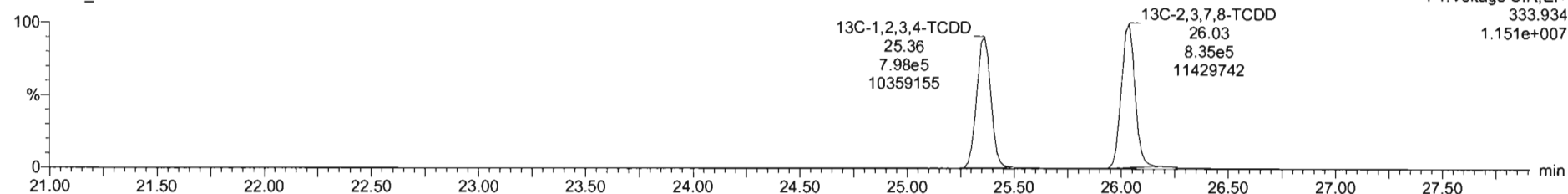


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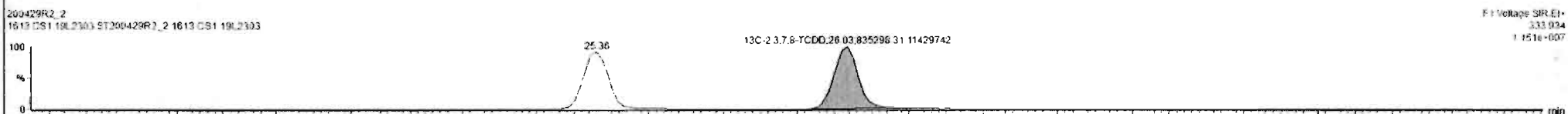
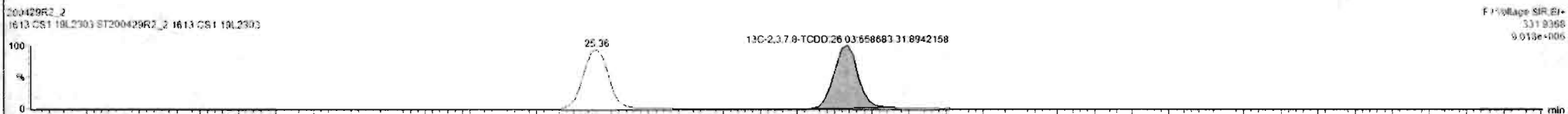
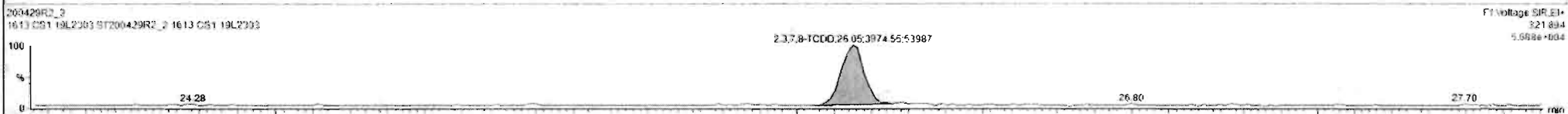
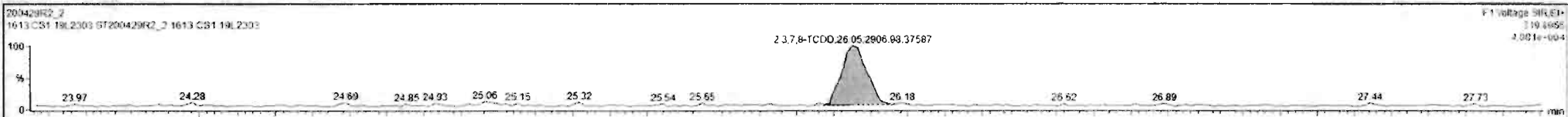
200429R2_2



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	26.05	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



Custom Reporting: Select reports to generate

200429R2_2

CAP NUM

Dataset: Untitled

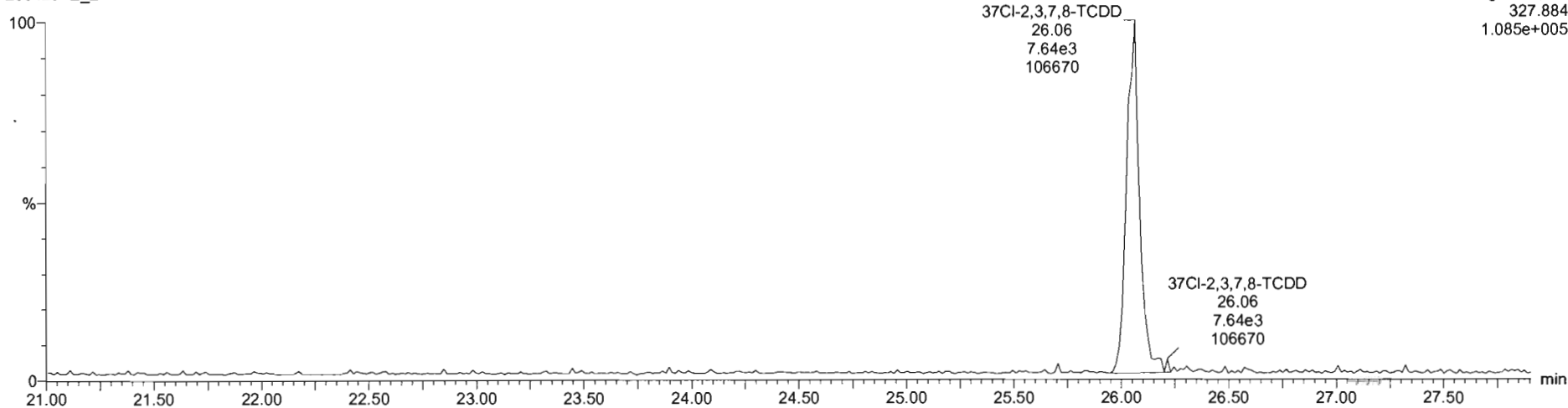
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_2, Date: 29-Apr-2020, Time: 14:15:04, ID: ST200429R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

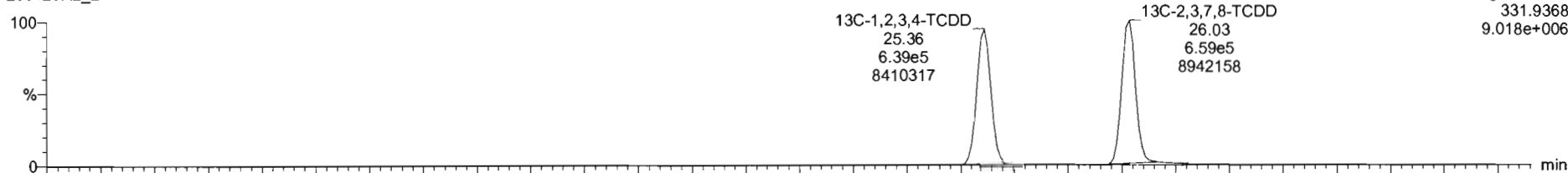
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200429R2_2

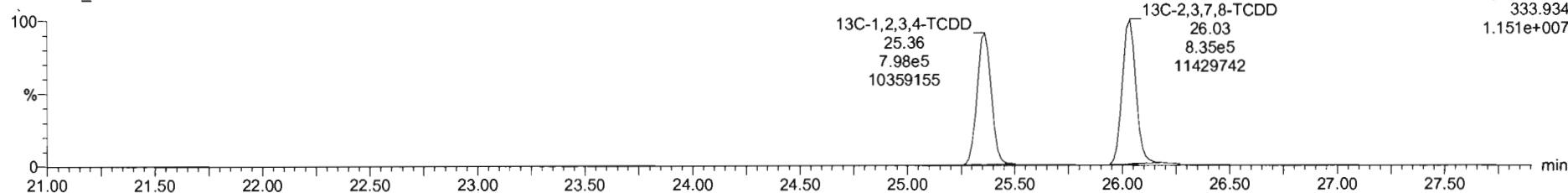


13C-1,2,3,4-TCDD

200429R2_2



200429R2_2



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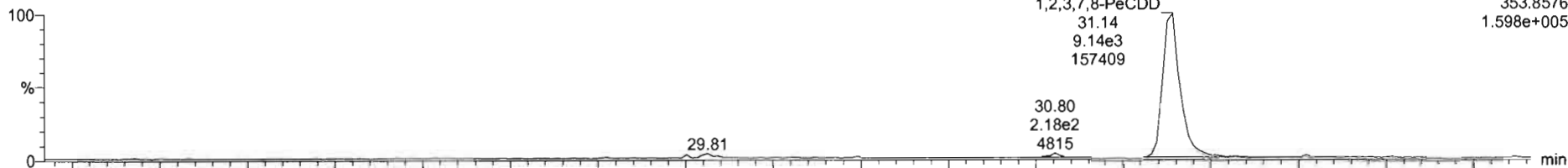
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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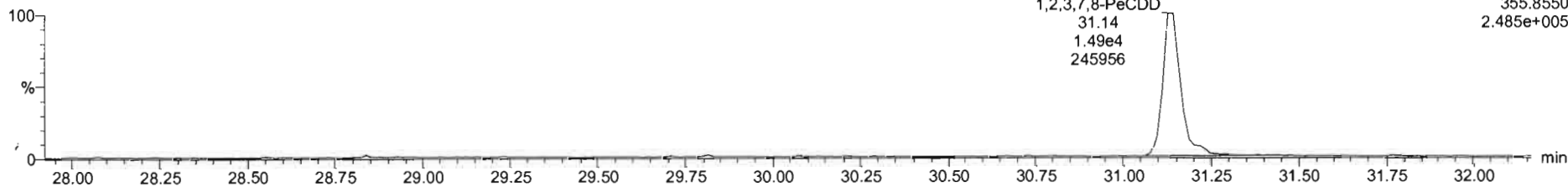
1,2,3,7,8-PeCDD

200429R2_2



F2:Voltage SIR,EI+
353.8576
1.598e+005

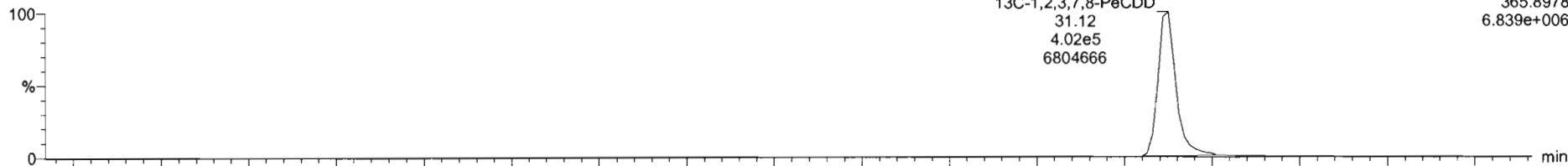
200429R2_2



F2:Voltage SIR,EI+
355.8550
2.485e+005

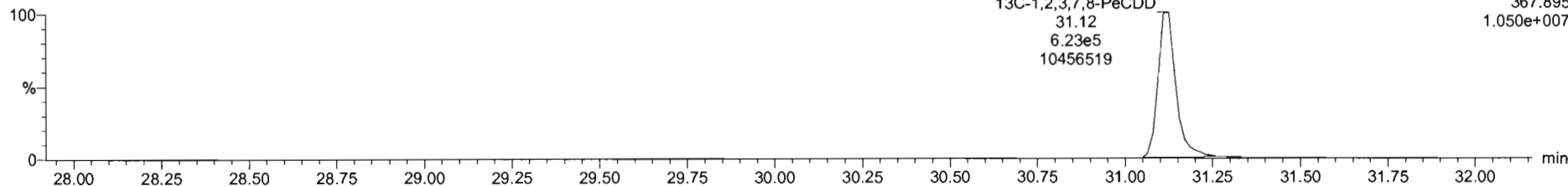
13C-1,2,3,7,8-PeCDD

200429R2_2



F2:Voltage SIR,EI+
365.8978
6.839e+006

200429R2_2



F2:Voltage SIR,EI+
367.895
1.050e+007

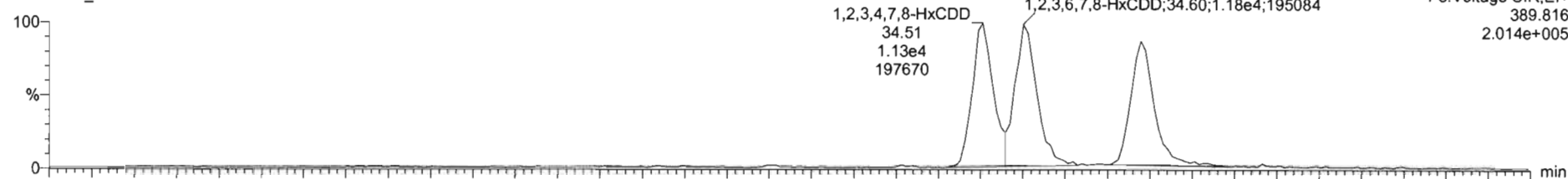
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Name: 200429R2_2, Date: 29-Apr-2020, Time: 14:15:04, ID: ST200429R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

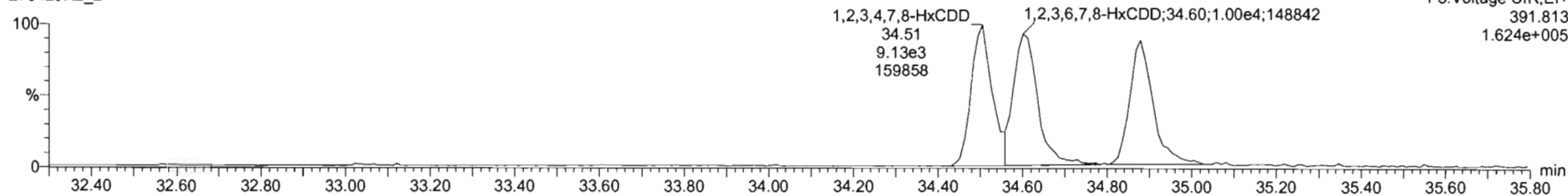
1,2,3,4,7,8-HxCDD

200429R2_2



F3:Voltage SIR,EI+
389.816
2.014e+005

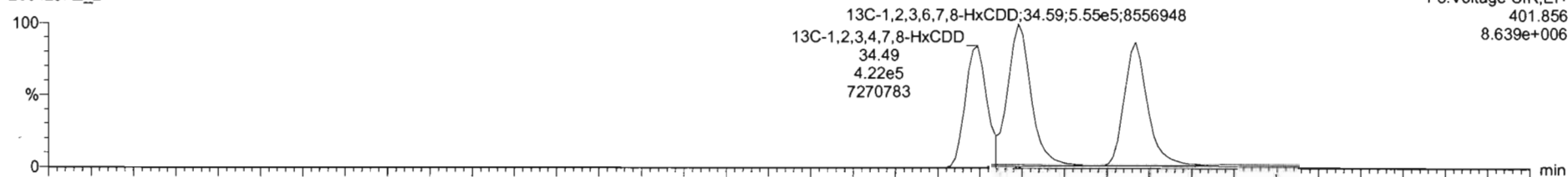
200429R2_2



F3:Voltage SIR,EI+
391.813
1.624e+005

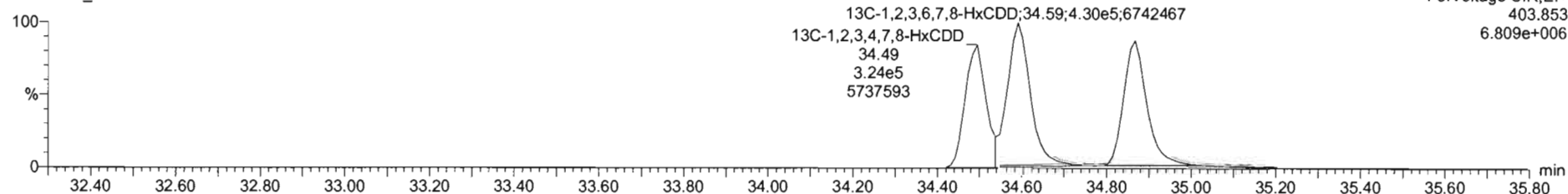
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200429R2_2



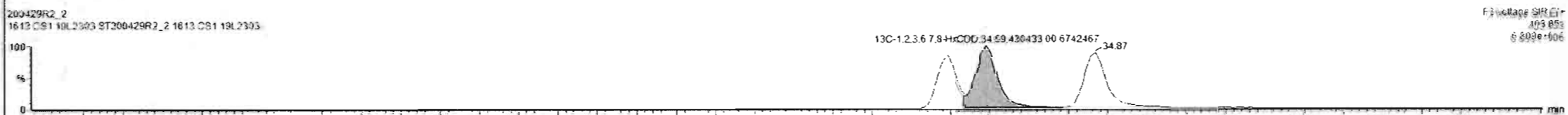
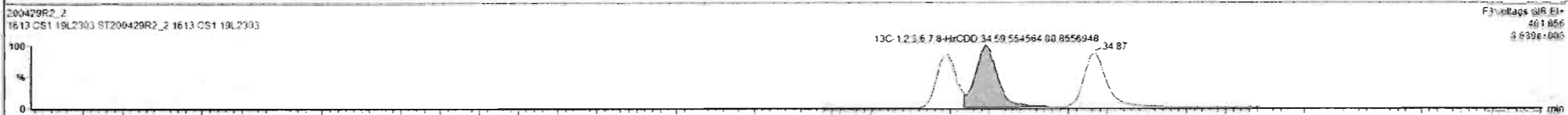
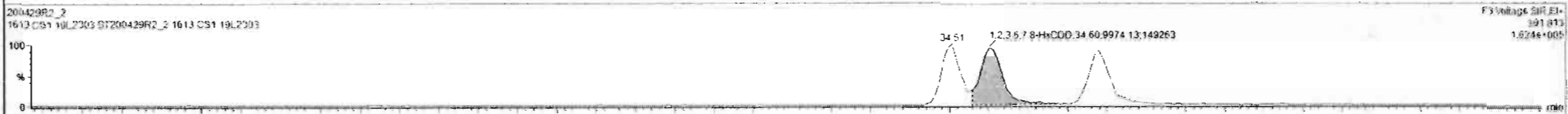
F3:Voltage SIR,EI+
401.856
8.639e+006

200429R2_2

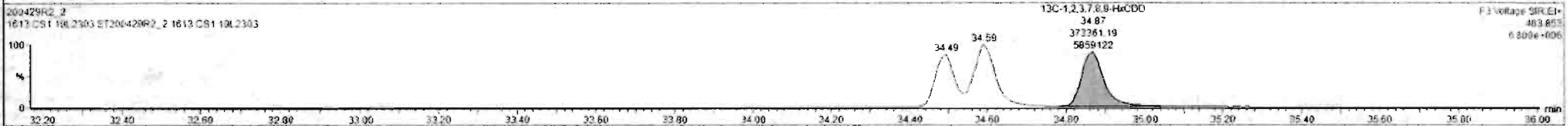
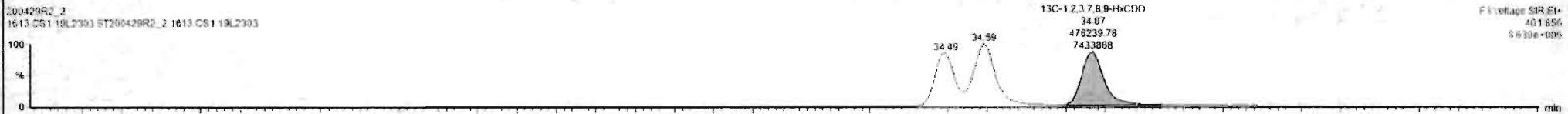
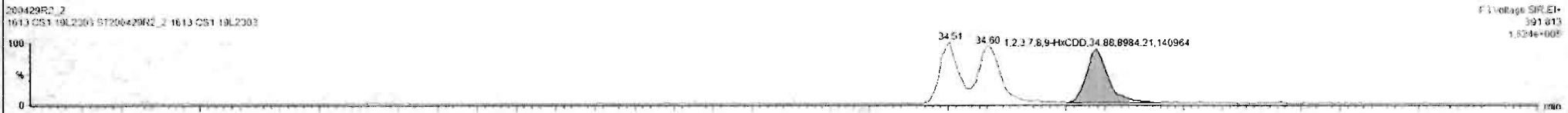


F3:Voltage SIR,EI+
403.853
6.809e+006

#	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	9.2599e5	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	2.1610e4	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	1.9020e4	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	2.2180e0	0.500	0.1	5.11	0.787	0.0402
9	1,2,3,7,8-PeCDF	29.82	1.542	NO	3.8524e4	1.6915e6	2.500	0.1	5.86	0.910	0.0523
10	1,2,3,4,7,8-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	2.2610e4	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	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	1.205	NO	1.8511e4	8.7735e5	2.500	1.0	5.98	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	0.671	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



Custom Reporting: Select reports to generate

Dataset: Untitled

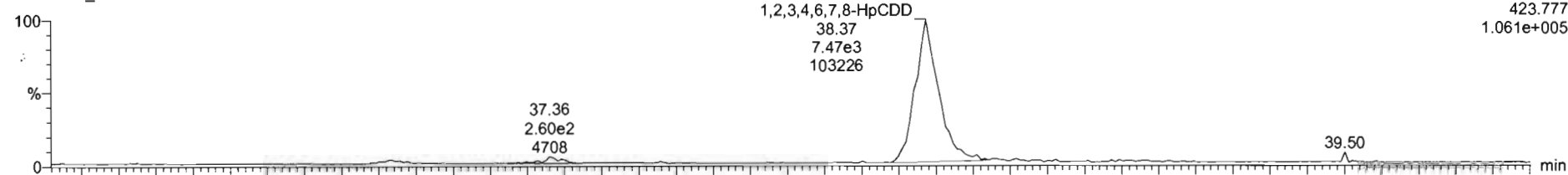
Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_2, Date: 29-Apr-2020, Time: 14:15:04, ID: ST200429R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

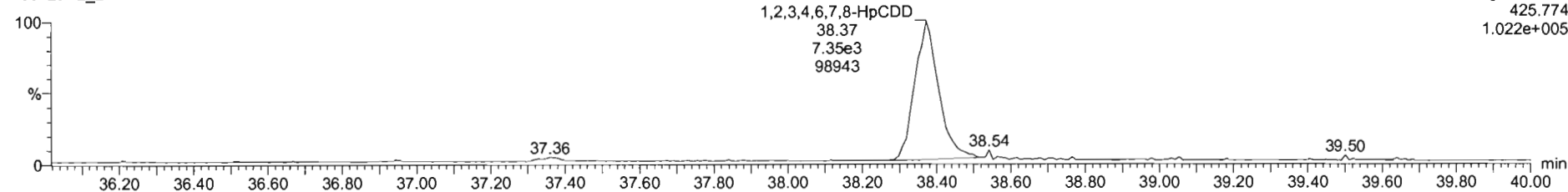
1,2,3,4,6,7,8-HpCDD

200429R2_2



F4:Voltage SIR,EI+
423.777
1.061e+005

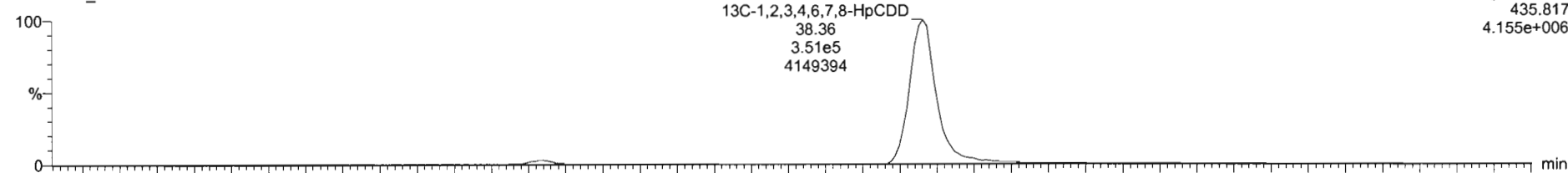
200429R2_2



F4:Voltage SIR,EI+
425.774
1.022e+005

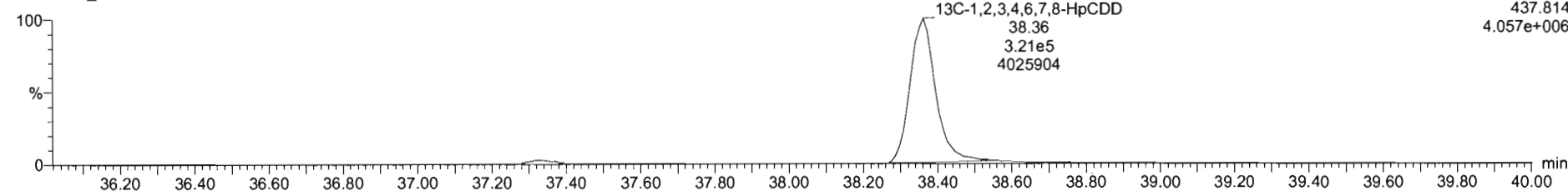
13C-1,2,3,4,6,7,8-HpCDD

200429R2_2

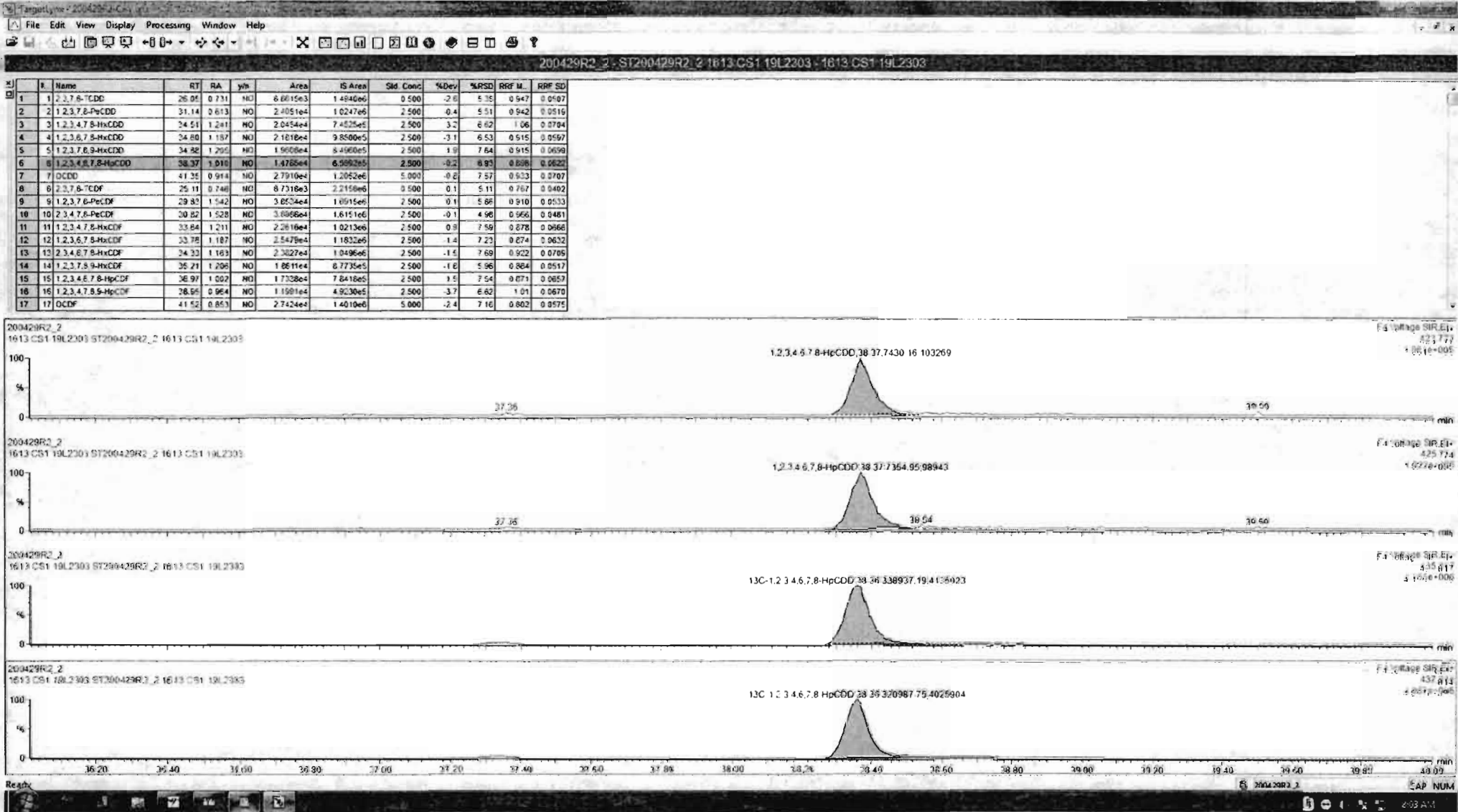


F4:Voltage SIR,EI+
435.817
4.155e+006

200429R2_2



F4:Voltage SIR,EI+
437.814
4.057e+006



Dataset: Untitled

Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time

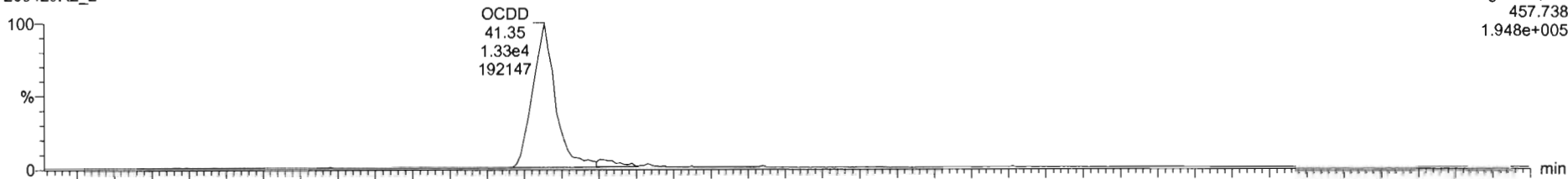
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_2, Date: 29-Apr-2020, Time: 14:15:04, ID: ST200429R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

OCDD

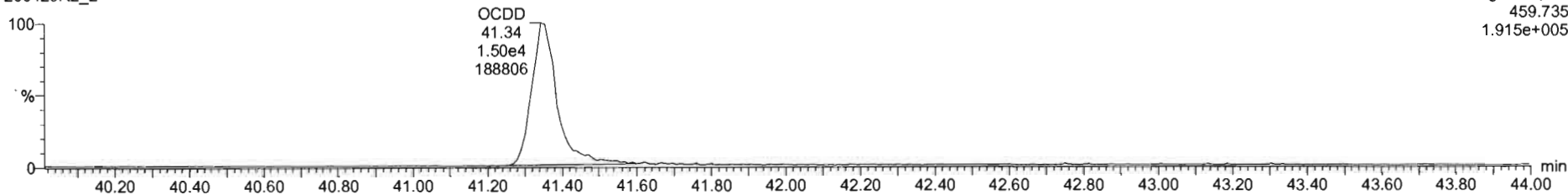
200429R2_2

F5:Voltage SIR,EI+
457.738
1.948e+005



200429R2_2

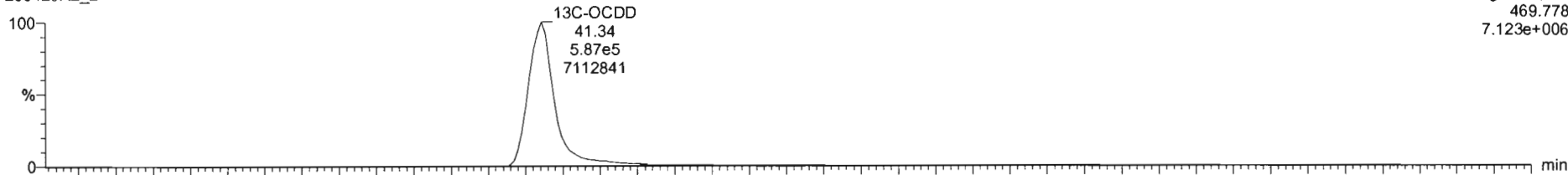
F5:Voltage SIR,EI+
459.735
1.915e+005



13C-OCDD

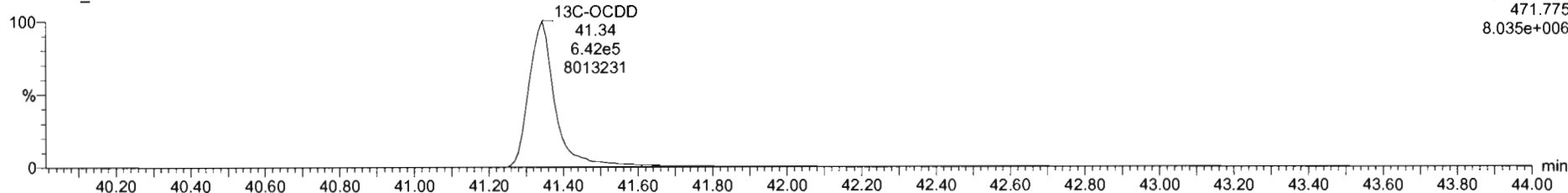
200429R2_2

F5:Voltage SIR,EI+
469.778
7.123e+006



200429R2_2

F5:Voltage SIR,EI+
471.775
8.035e+006



200429R2_2 - ST200429R2_2 1613 CS1 19L2303 - 1613 CS1 19L2303

#	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	6.6615e3	1.4940e6	0.500	-2.6	5.35	0.947	0.0587
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e5	2.500	-0.4	5.51	0.942	0.0519
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	0.0794
4	1,2,3,6,7,8-HxCDD	34.80	1.187	NO	2.1818e4	9.8508e5	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	8.4960e5	2.500	1.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4785e4	6.5992e5	2.500	-0.2	6.97	0.896	0.0622
7	OCDD	41.35	0.914	NO	2.7819e4	1.2052e8	5.000	-0.9	7.57	0.933	0.0707
8	1,2,3,7,8-TCDF	25.11	0.748	NO	8.7318e3	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	1.8915e6	2.500	0.1	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8966e4	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	1,2,3,4,6,7,8-HpCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.68	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8611e4	8.7735e5	2.500	-1.8	6.96	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	1.4018e6	5.000	-2.4	7.16	0.802	0.0575

200429R2_2
1613 CS1 19L2303 ST200429R2_2 1613 CS1 19L2303

OCDD
41.35
13331.56
192147

PS Voltage 98V.E1
457.736
1.948e+005

200429R2_2
1613 CS1 19L2303 ST200429R2_2 1613 CS1 19L2303

OCDD
41.34
14578.05
188674

PS Voltage 98V.E1
459.736
1.911e+005

200429R2_2
1613 CS1 19L2303 ST200429R2_2 1613 CS1 19L2303

13C-OCDD 41.34571772 31.7115289

PS Voltage 98V.E1
463.778
1.53e+006

200429R2_2
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PS Voltage 98V.E1
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Ready

200429R2_2 CAP NUM 8:03 AM

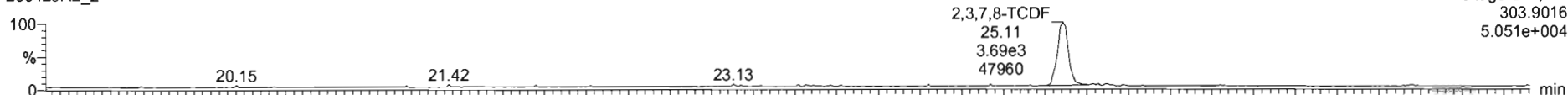
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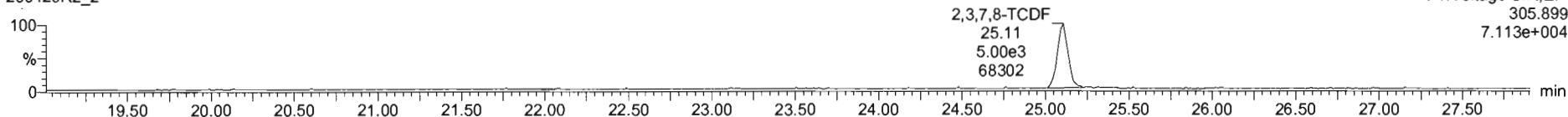
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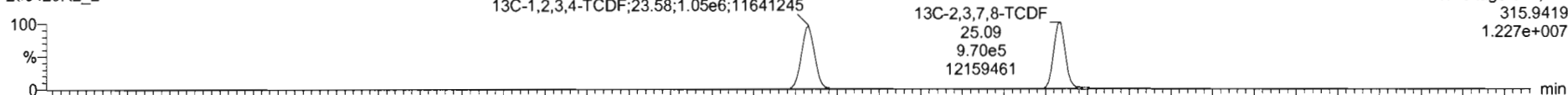


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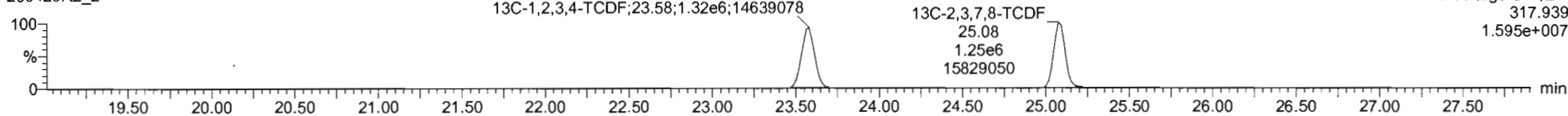


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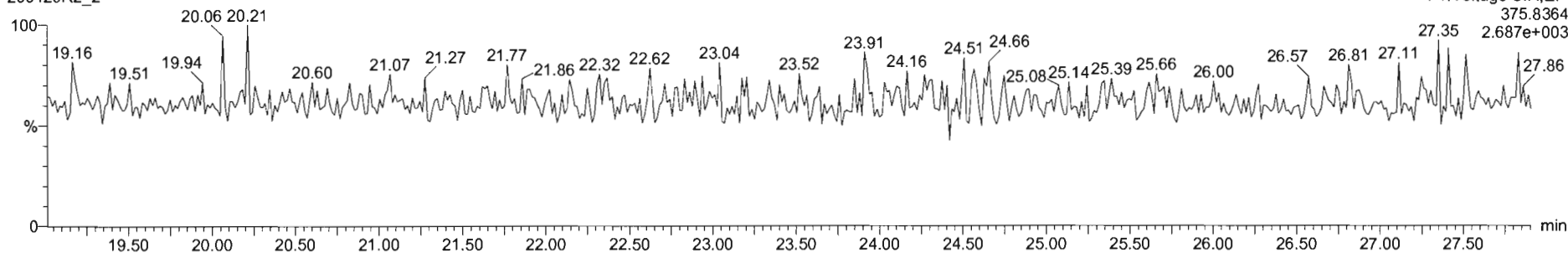


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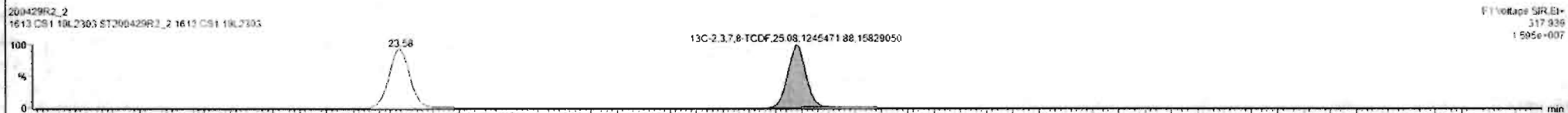
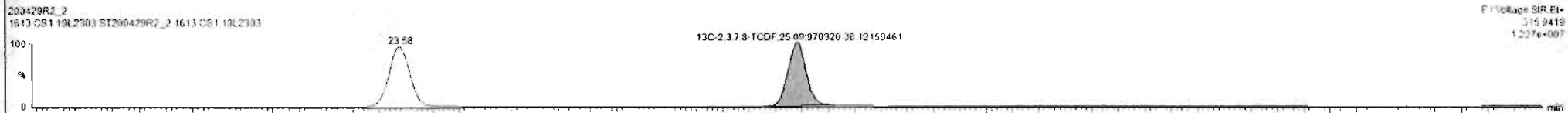
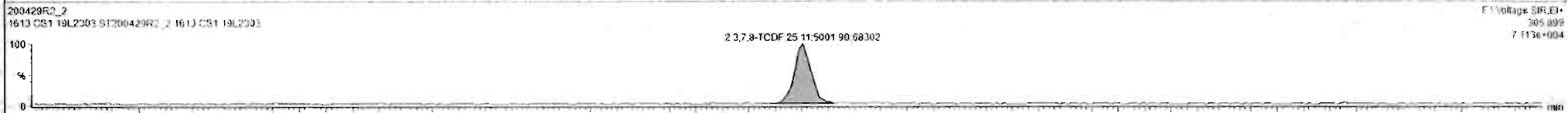
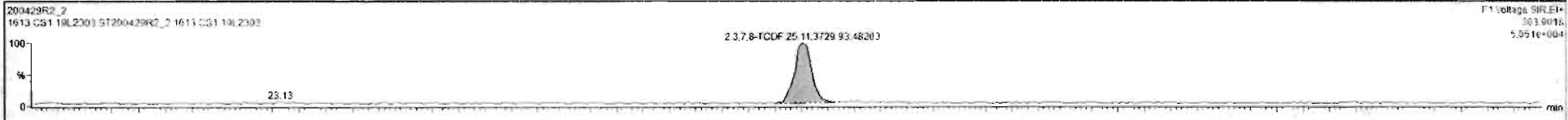


DPE1

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	8.4909e5	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	6.5902e5	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



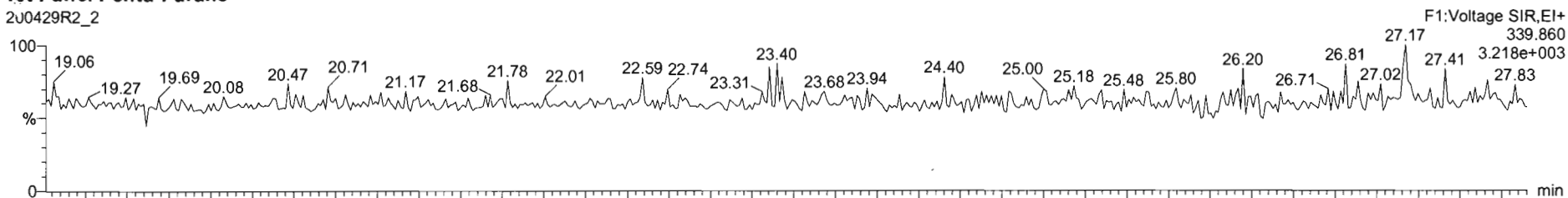
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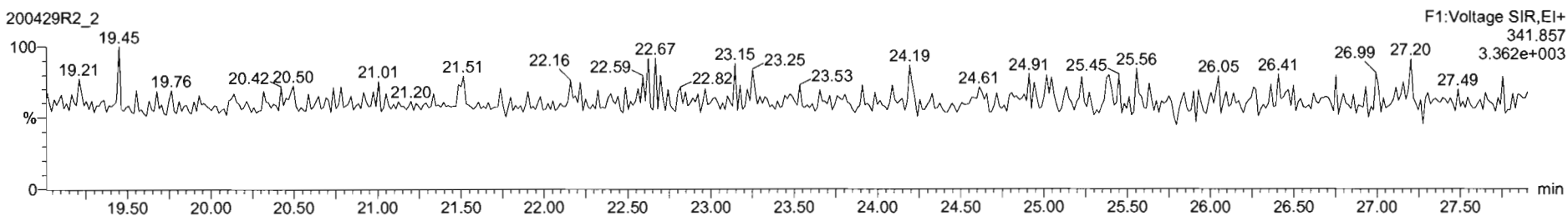
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1st Func. Penta-Furans

2U0429R2_2

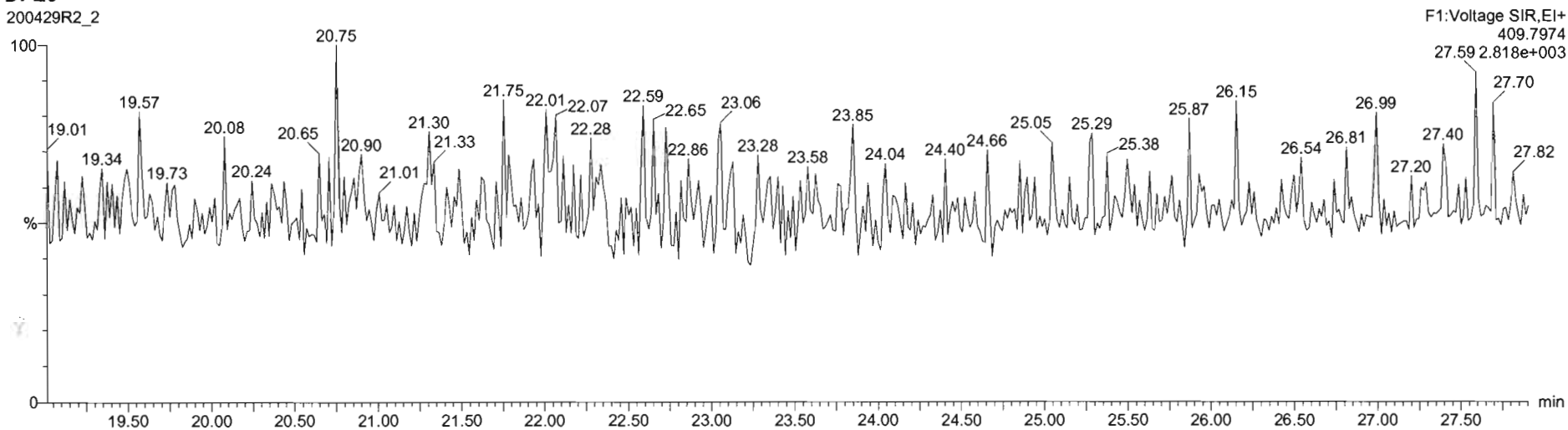


200429R2_2



DPE6

200429R2_2

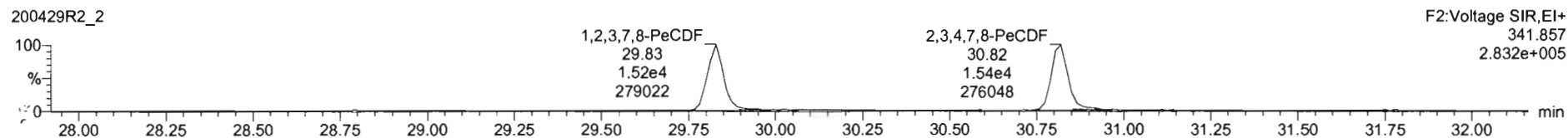
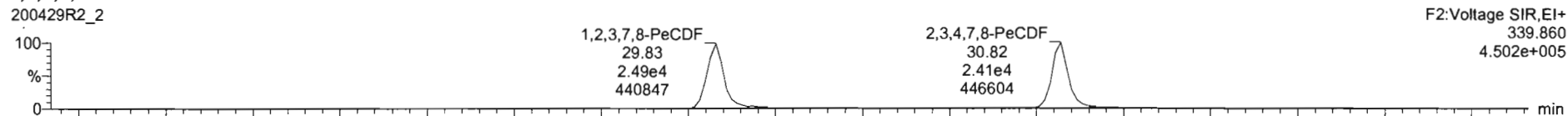


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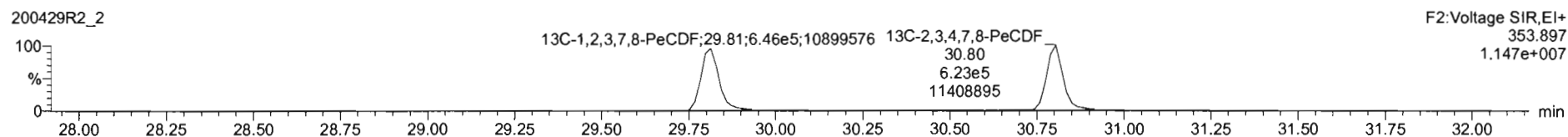
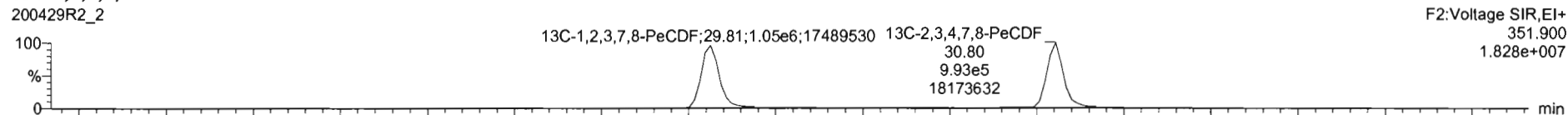
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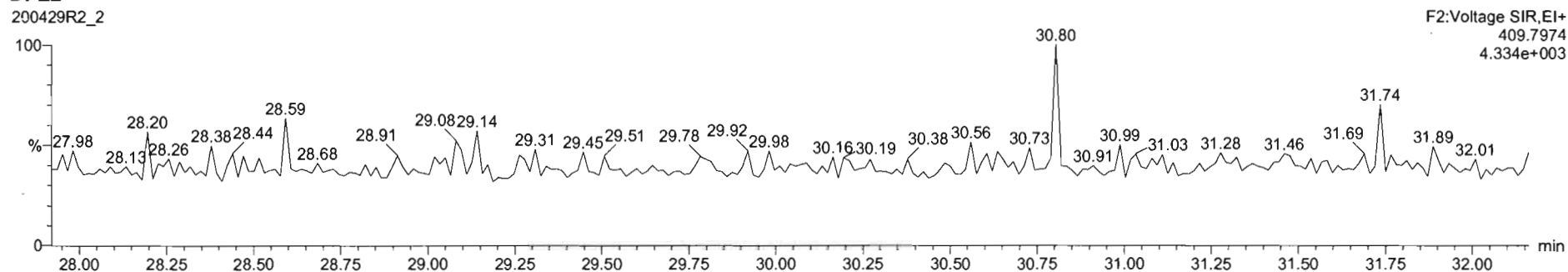
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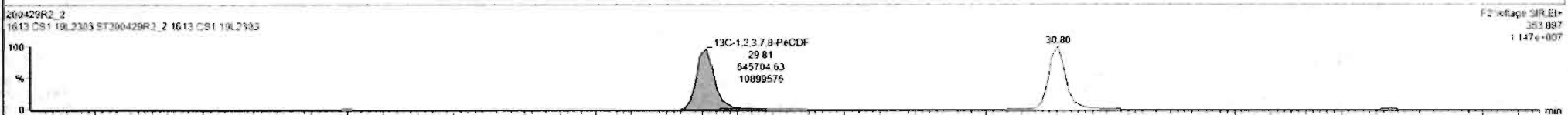
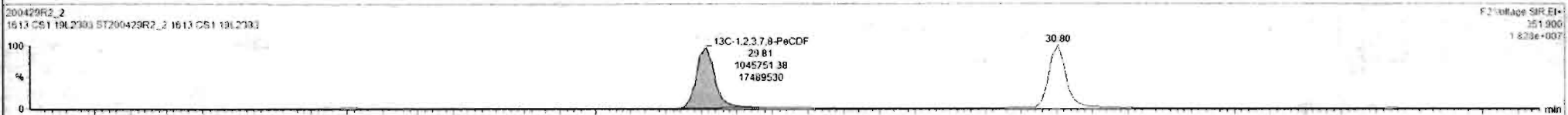
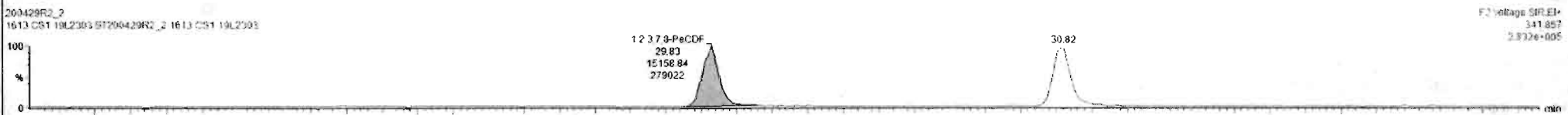
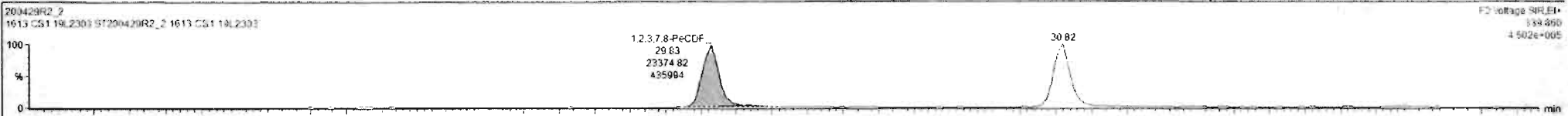
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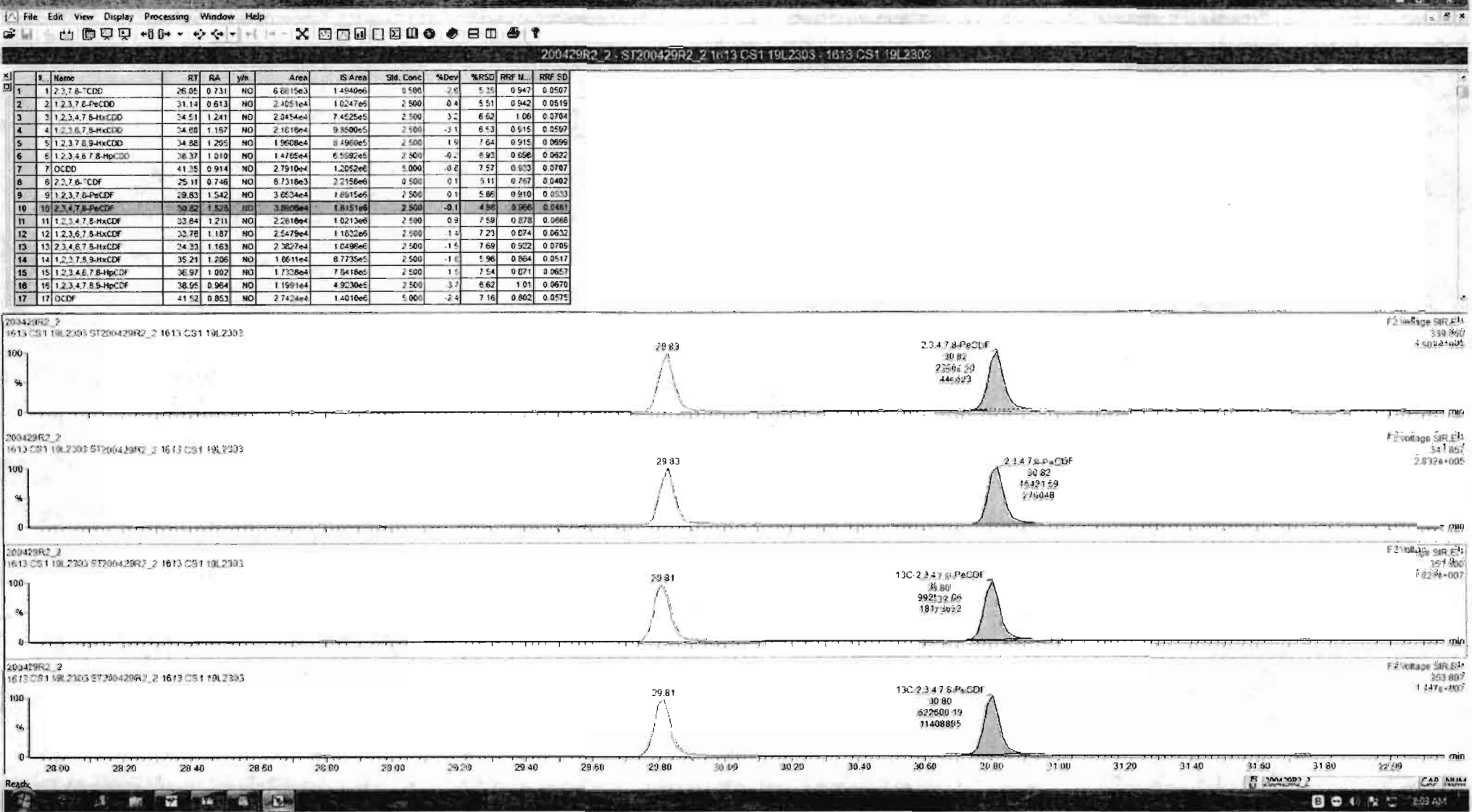
DPE2



#	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	-2.8	5.37	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	0.0515
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	1,2,3,7,8,9-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-HxCDF	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	1,2,3,7,8-TCDF	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	1,2,3,4,7,8-PeCDF	30.82	1.328	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	1,2,3,4,6,7,8-HpCDF	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	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.862	0.0575



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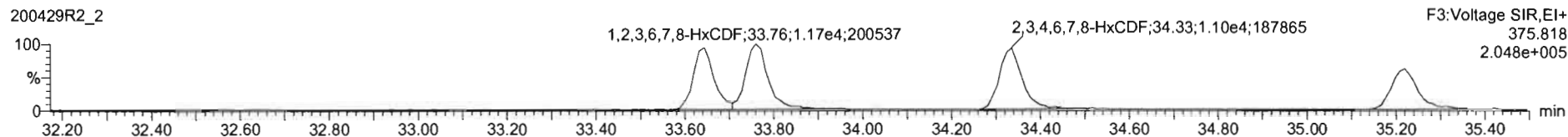
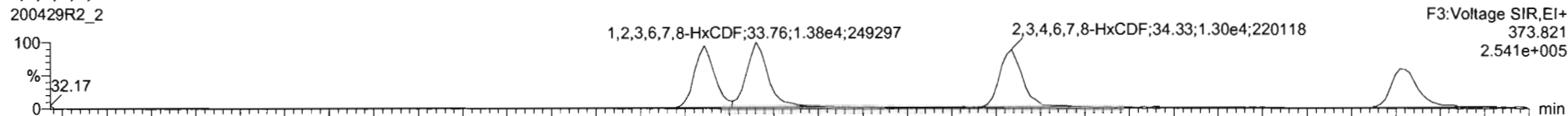


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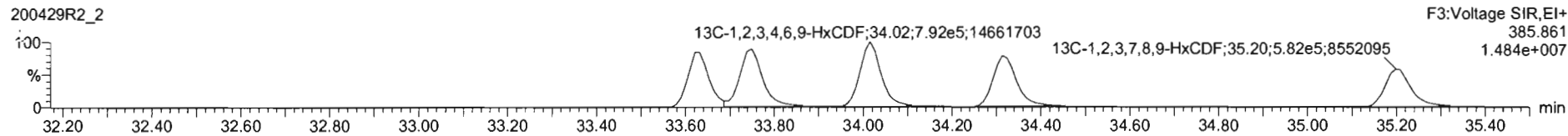
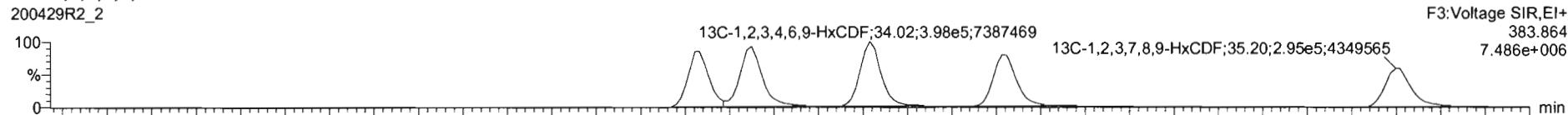
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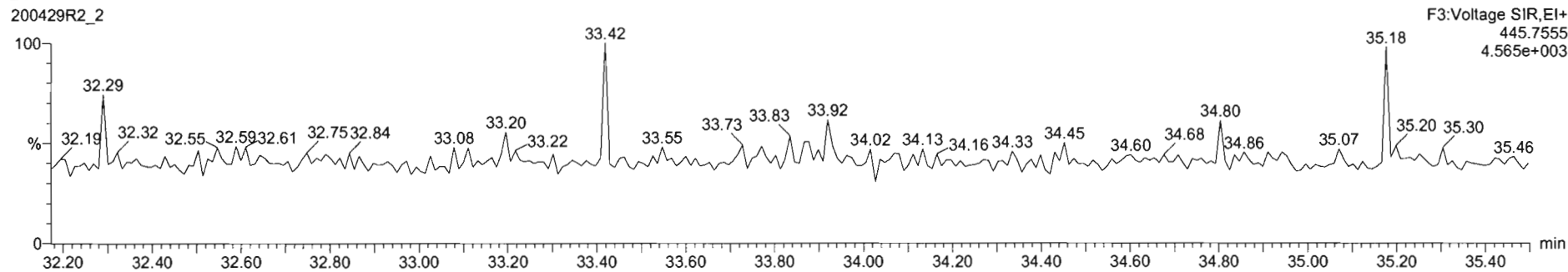
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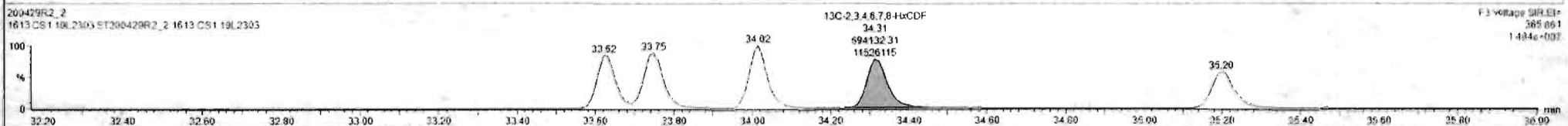
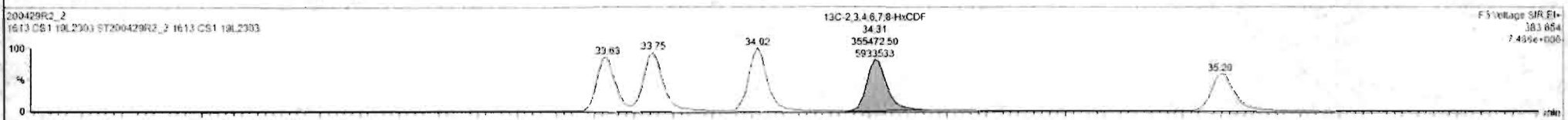
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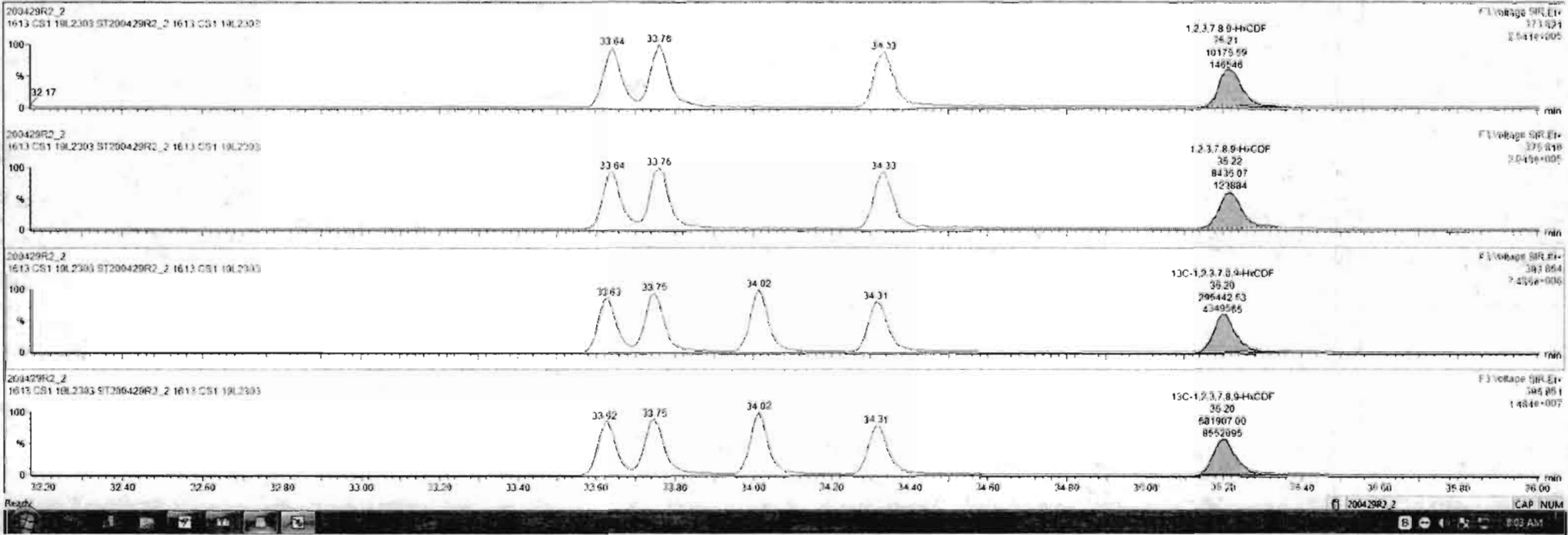
DPE3



#	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	2.1818e4	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	0.0698
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	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	6.7318e3	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	33.78	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	1.0490e6	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	0.740	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	20.82	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



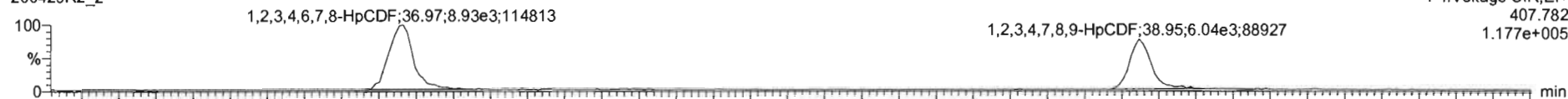
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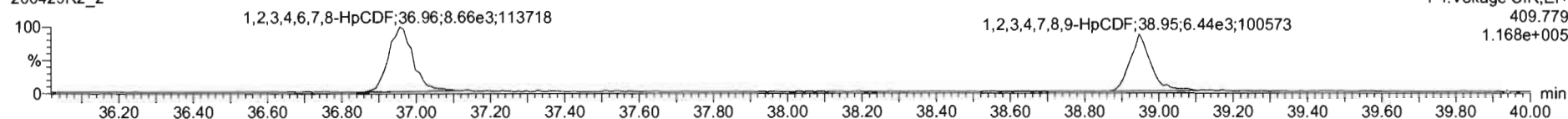
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200429R2_2

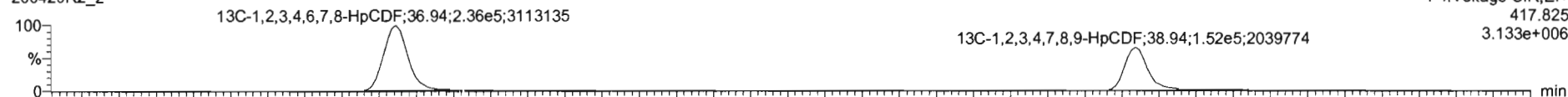


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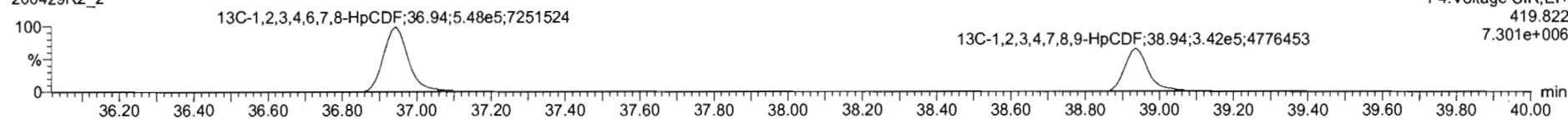


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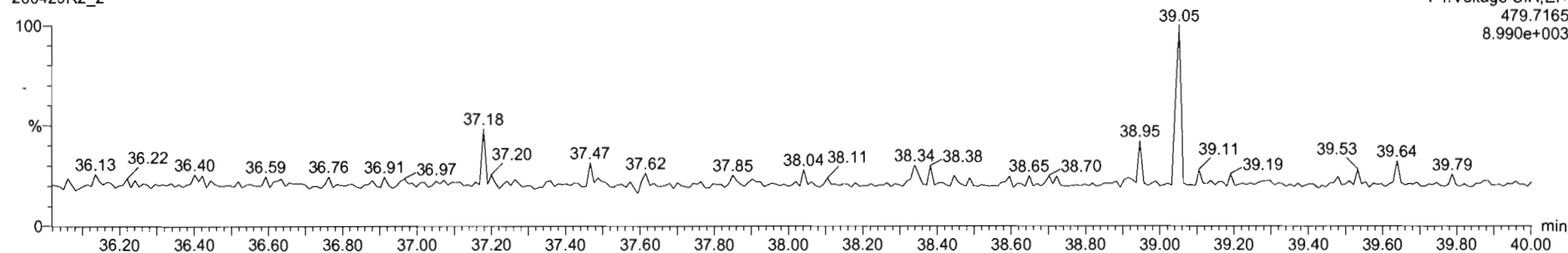


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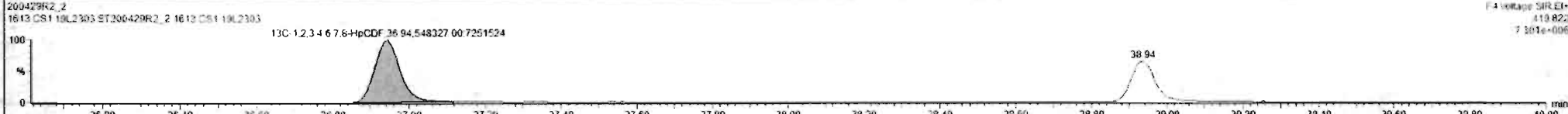
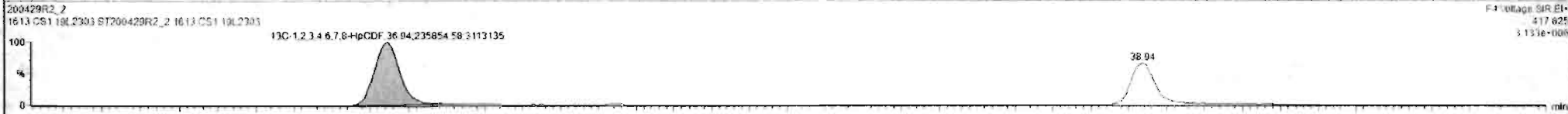
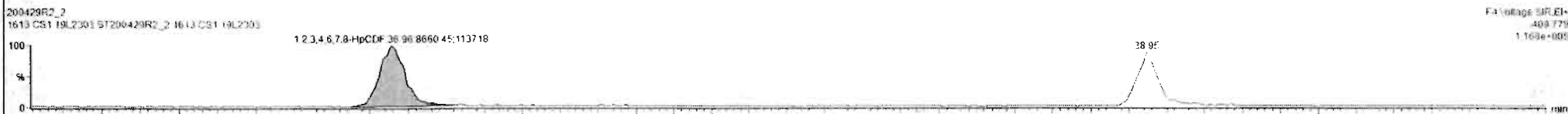


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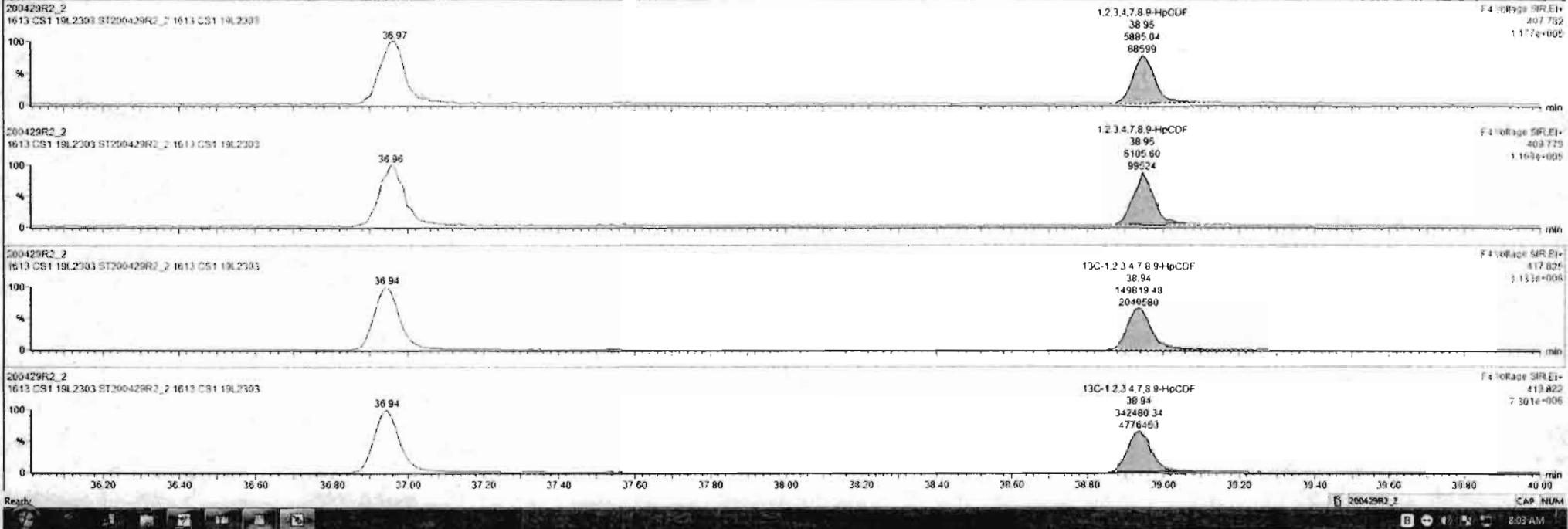
200429R2_2



#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	MRSD	RRF U	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	7.4525e5	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	1.205	NO	1.5608e4	8.4960e5	2.500	1.5	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	0.0632
7	OCDD	41.35	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	3.0134e4	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	2.5479e4	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	6.82	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



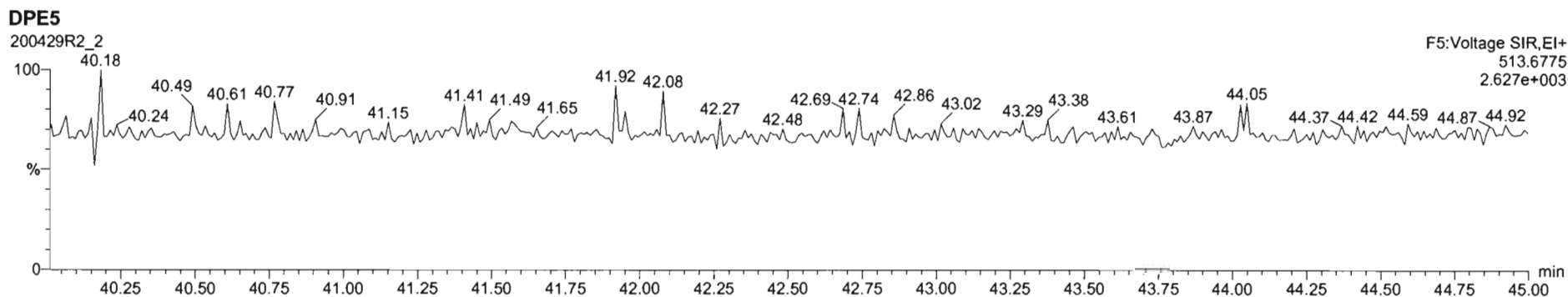
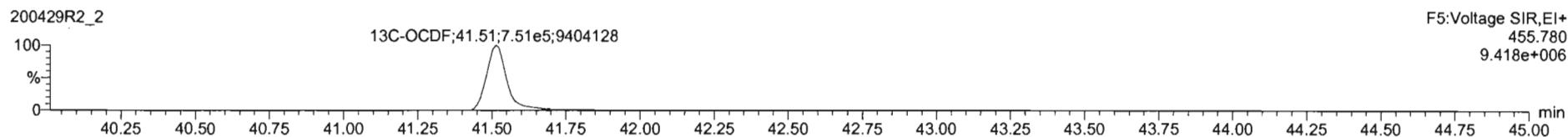
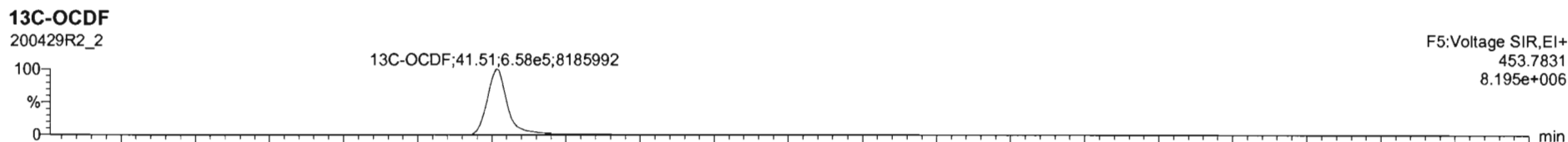
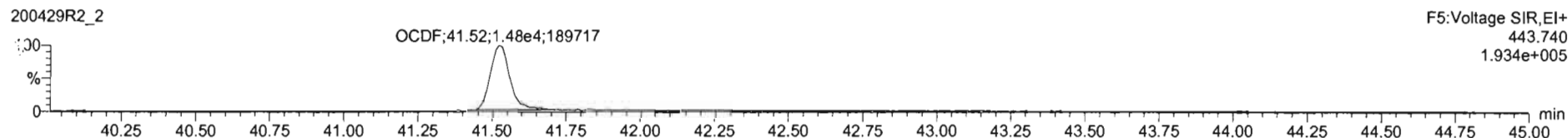
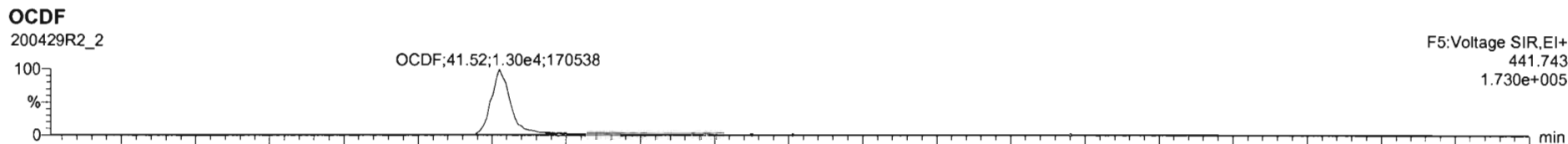
#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.95	0.731	NO	6.8615e3	1.4940e6	0.500	-2.8	5.35	0.947	0.0107
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.42	1.06	0.0764
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	1.1591e4	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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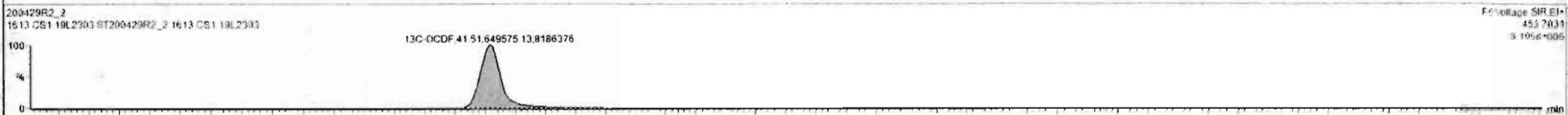
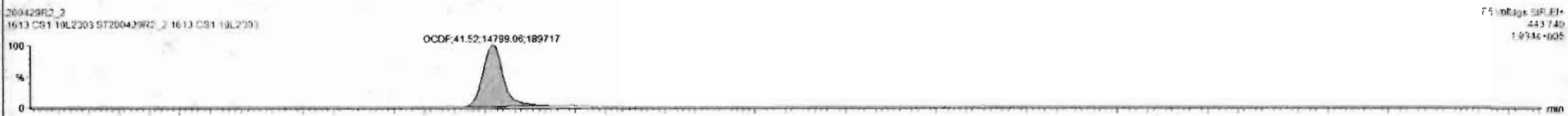
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200429R2_2 - ST200429R2_2 - 1613 CS1 19L2303 - 1613 CS1 19L2303

#	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-PeCDF	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-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	1.8611e4	8.7735e5	2.500	-1.6	5.98	0.864	0.0517
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	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

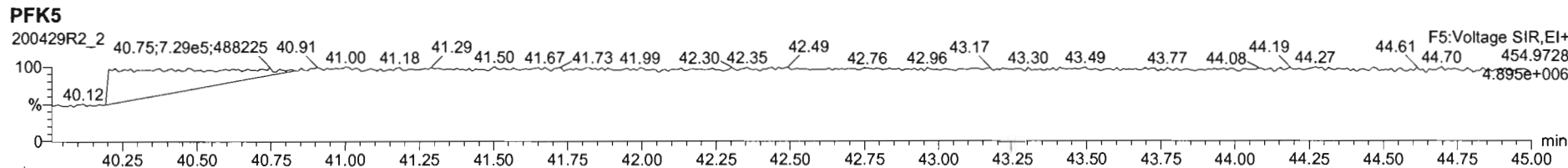
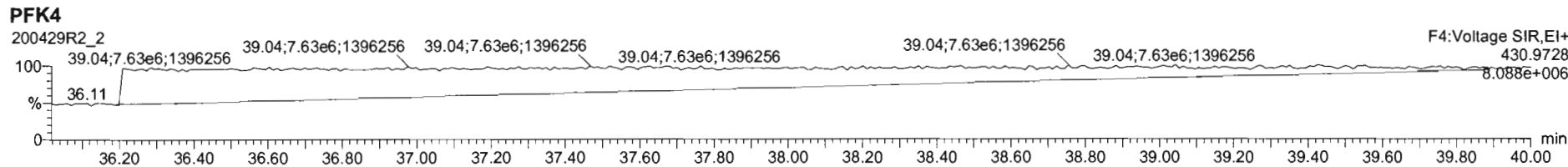
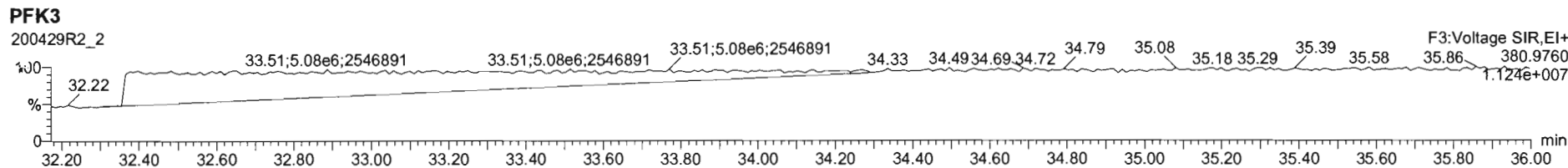
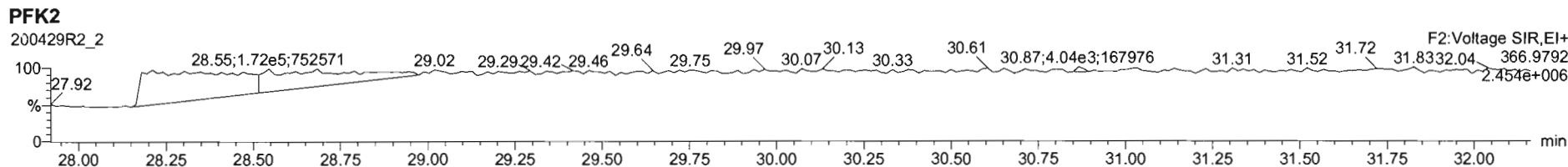
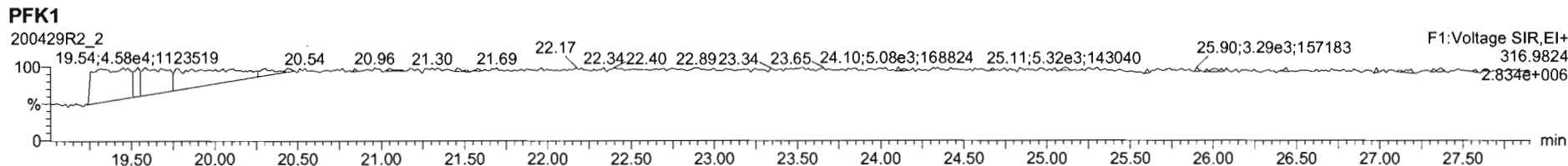


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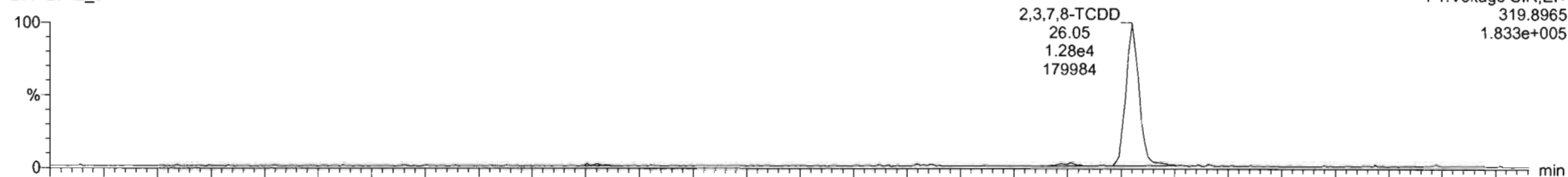
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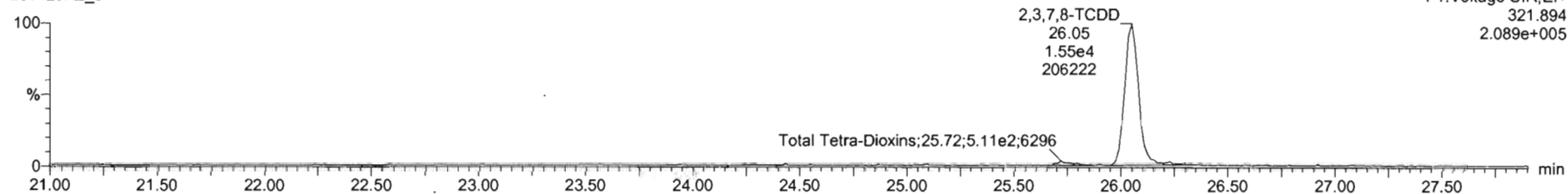
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2,3,7,8-TCDD

200429R2_3

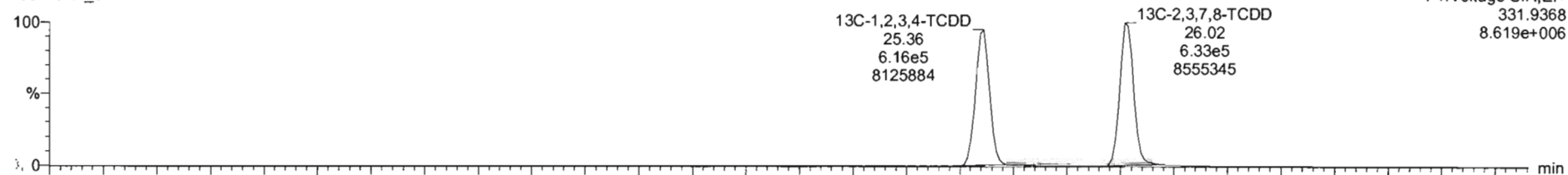


200429R2_3

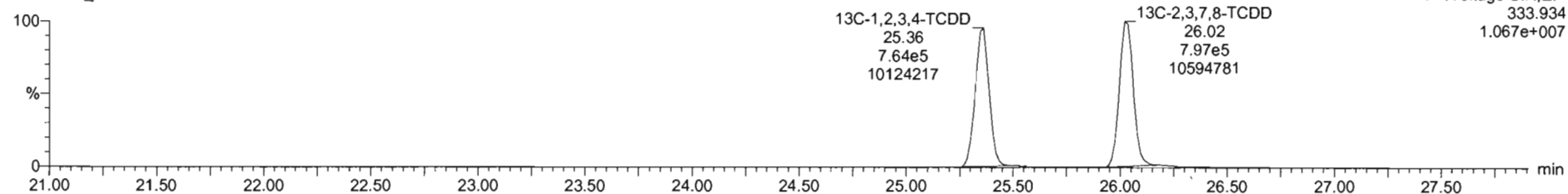


13C-2,3,7,8-TCDD

200429R2_3

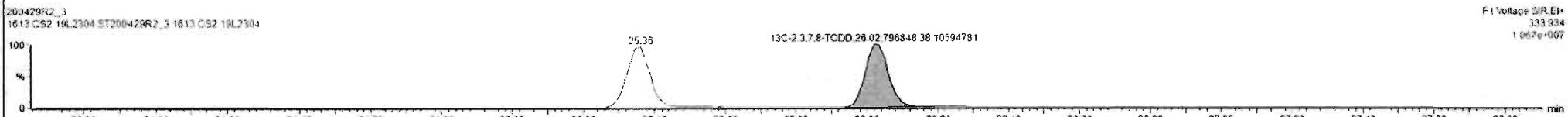
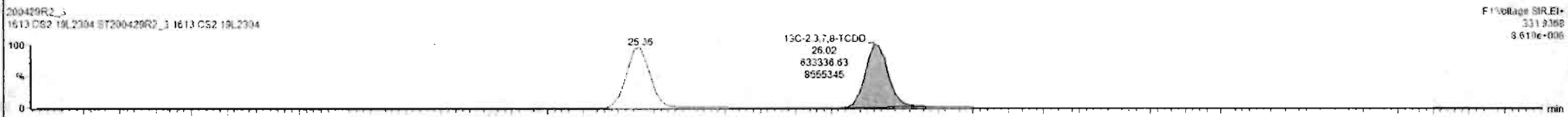
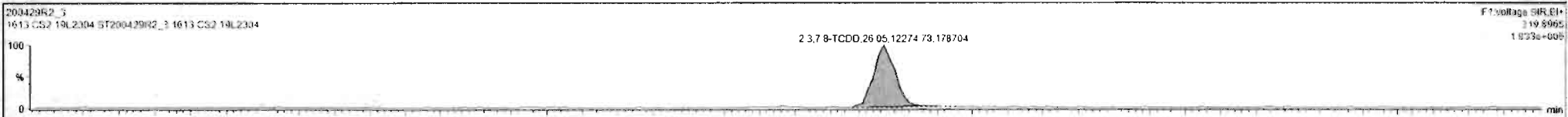


200429R2_3



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	21.13	0.621	NO	9.9612e4	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	8.93	0.856	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	2.900	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	4.96	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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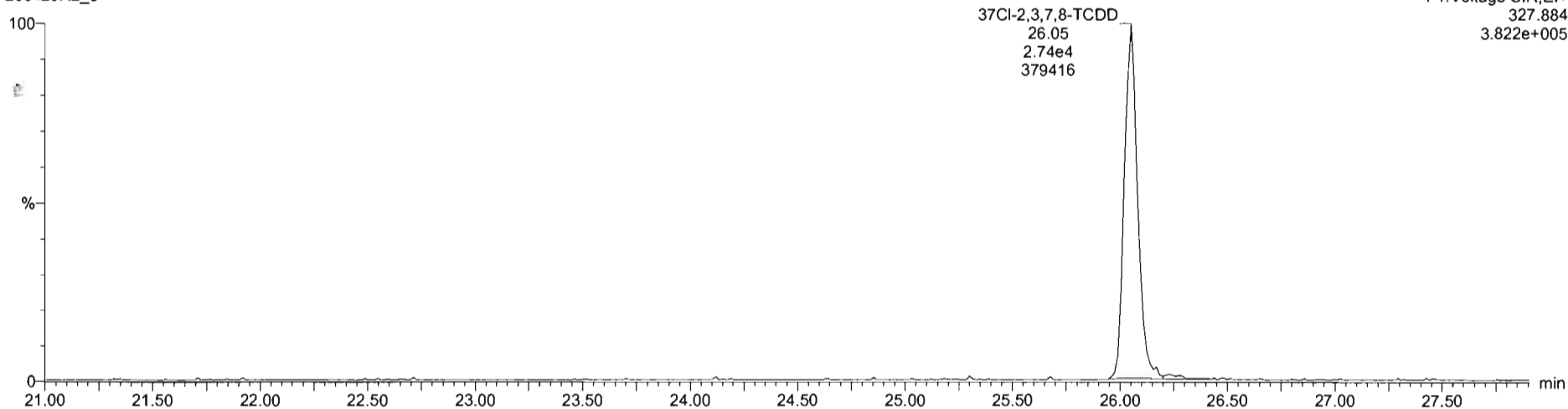
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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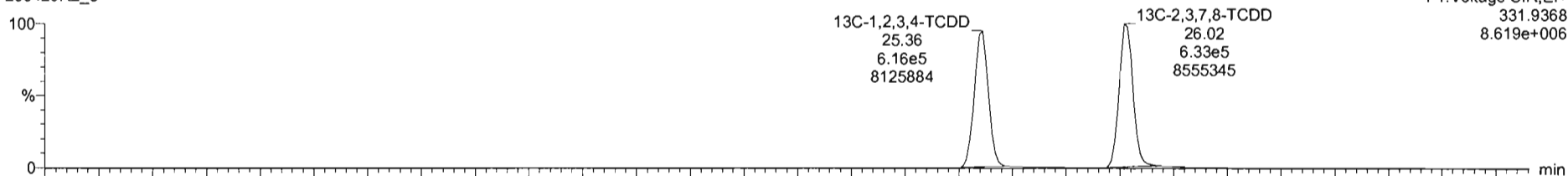
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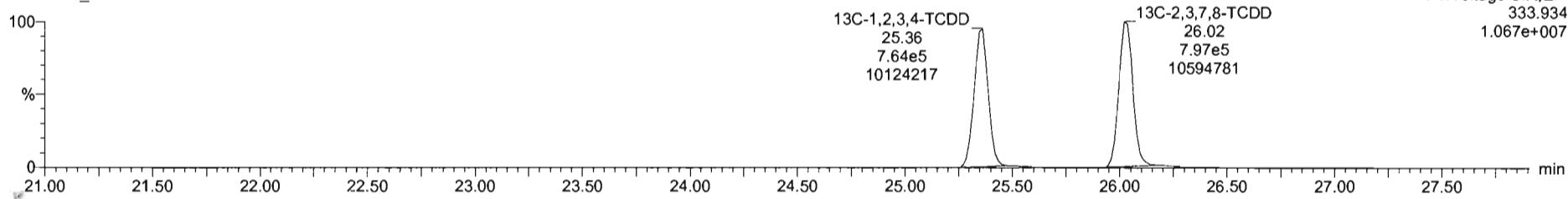


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200429R2_3



200429R2_3



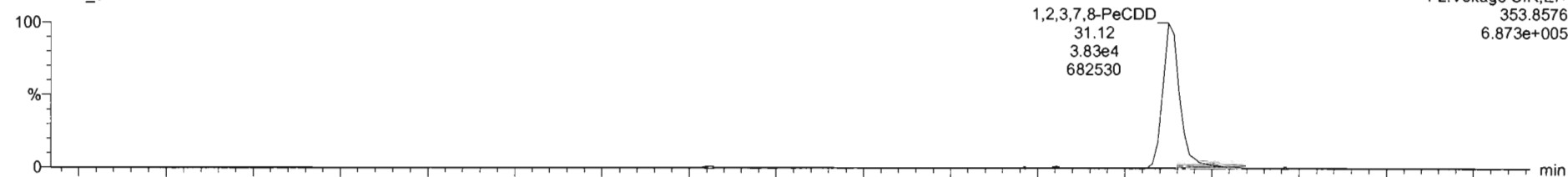
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

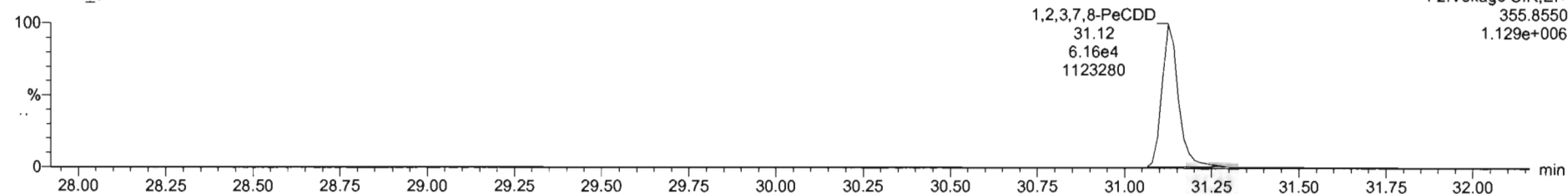
Name: 200429R2_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

1,2,3,7,8-PeCDD

200429R2_3

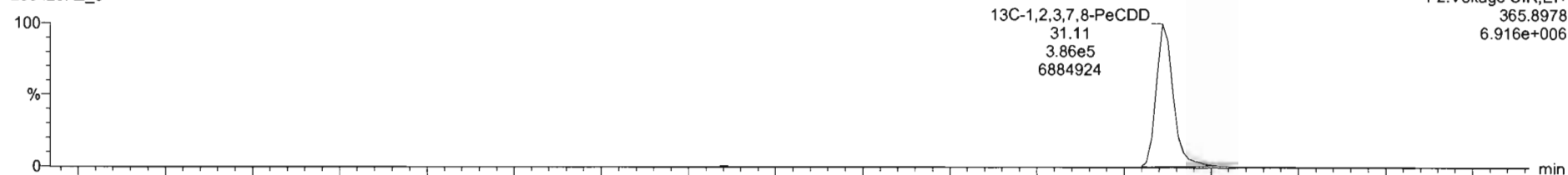


200429R2_3

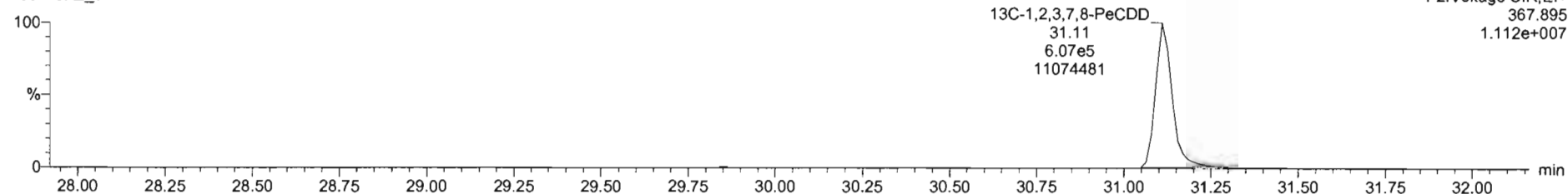


13C-1,2,3,7,8-PeCDD

200429R2_3



200429R2_3



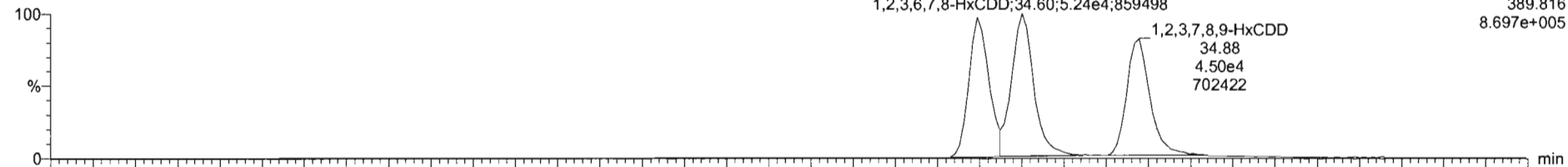
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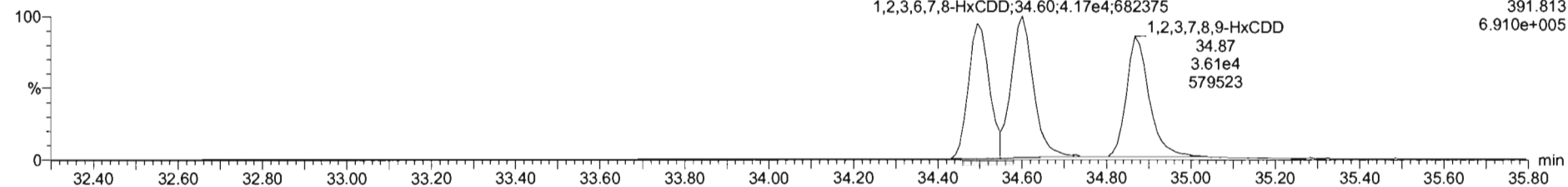
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1,2,3,4,7,8-HxCDD

200429R2_3

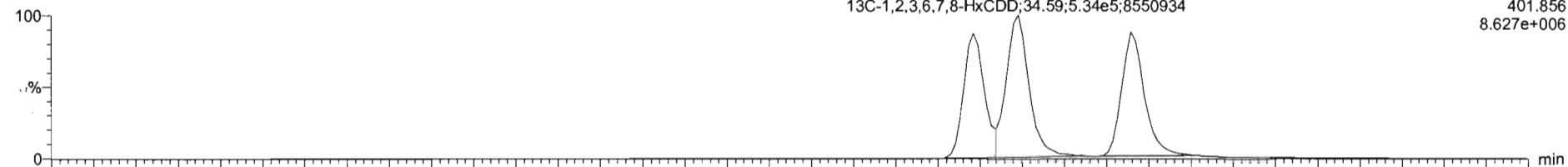


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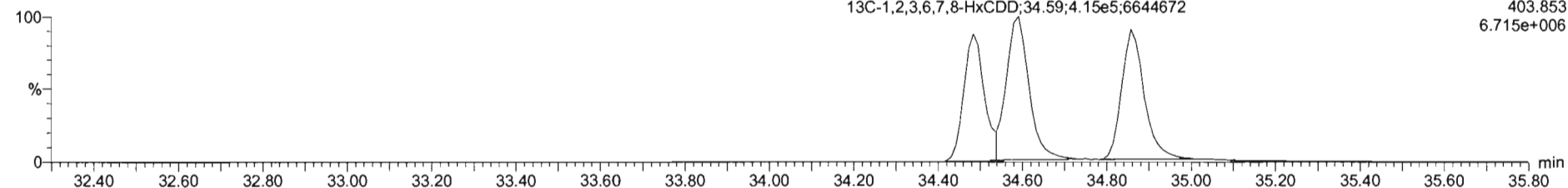


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200429R2_3



200429R2_3



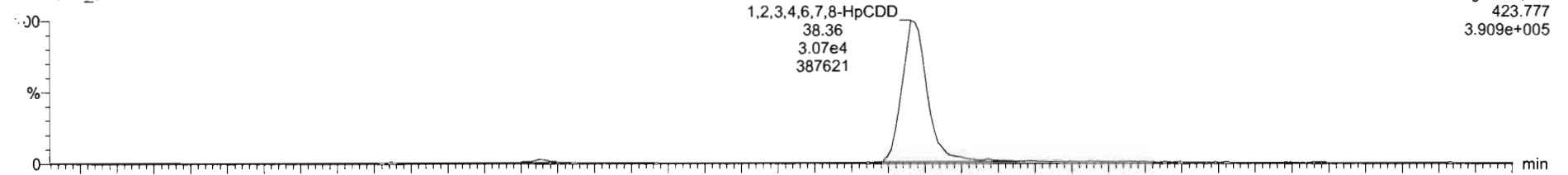
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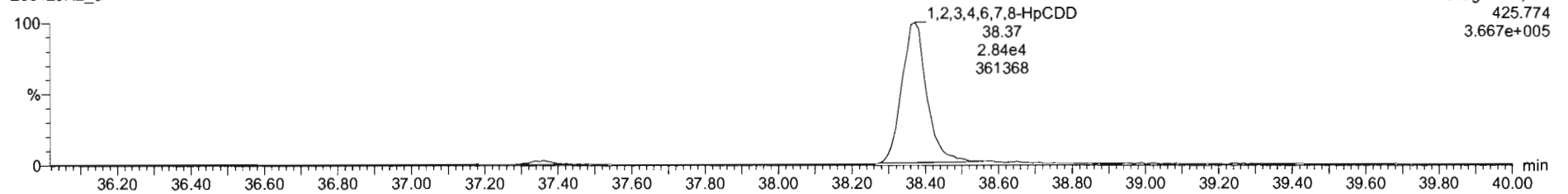
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200429R2_3

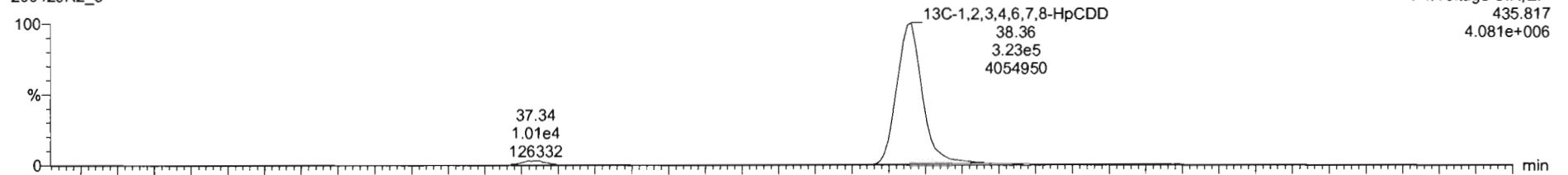


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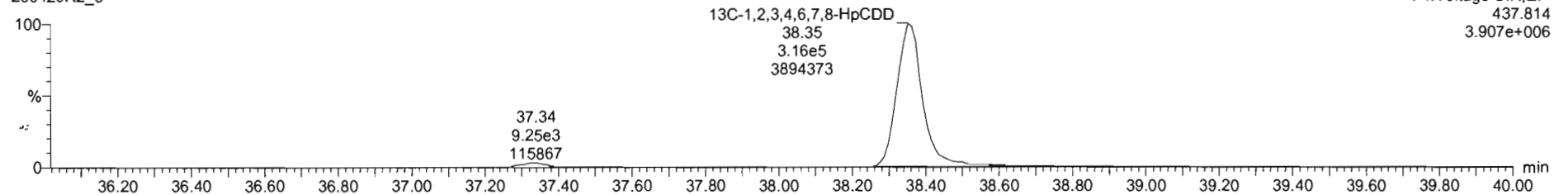


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200429R2_3



200429R2_3

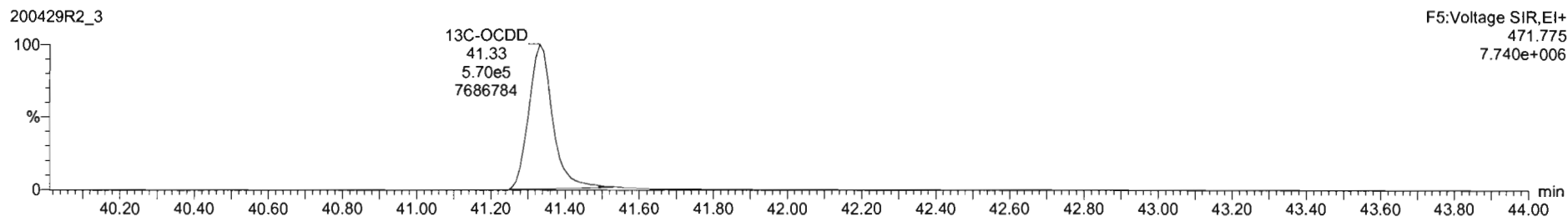
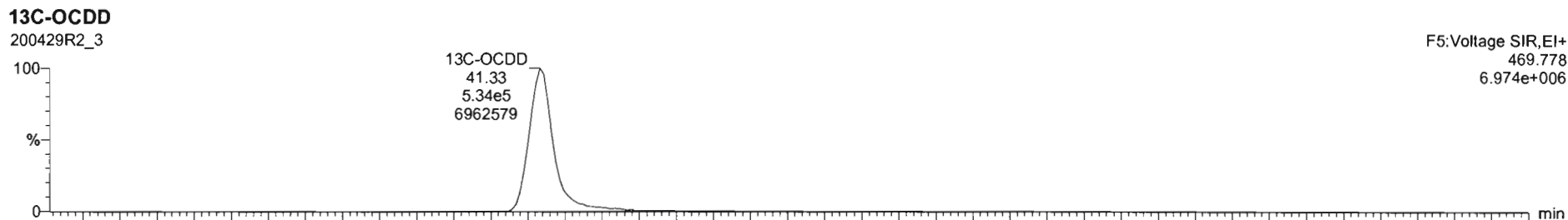
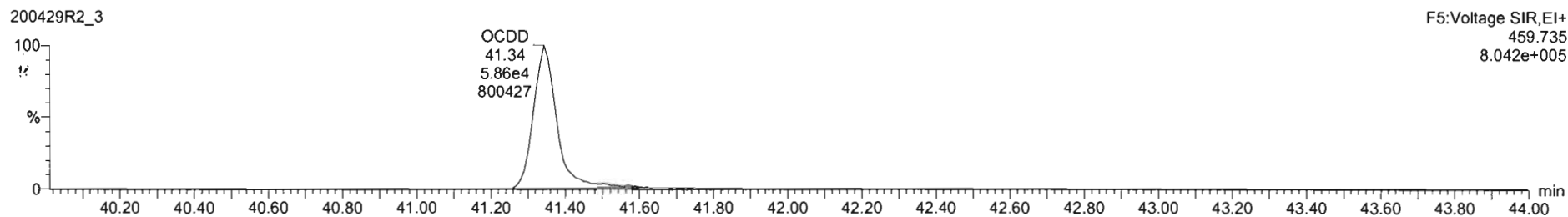
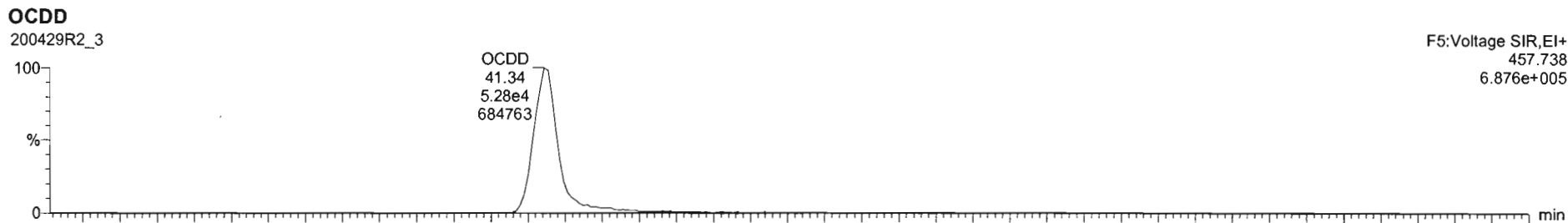


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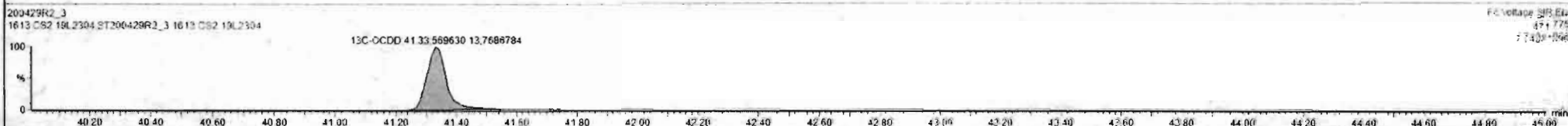
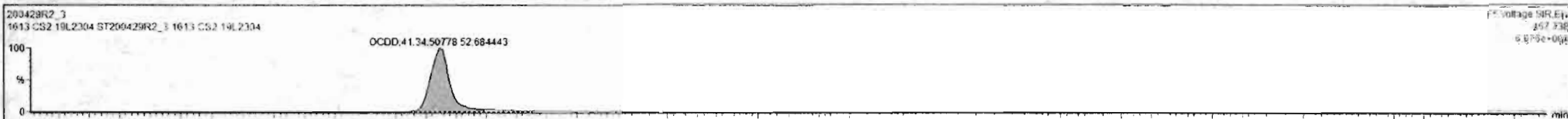
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Name: 200429R2_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304



#	Name	RT	RA	yh	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	2.000	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	1.0663e6	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



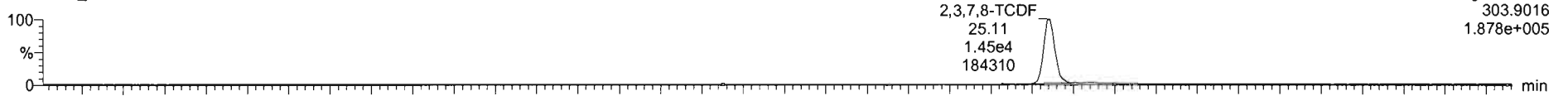
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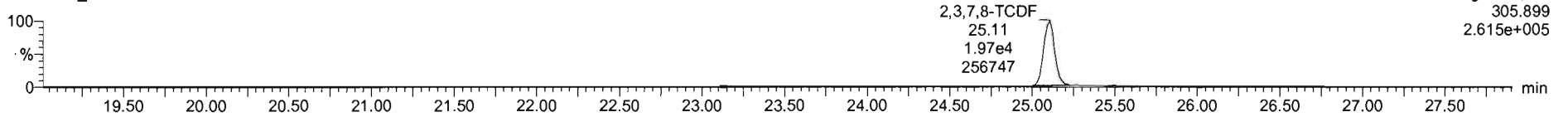
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2,3,7,8-TCDF

200429R2_3

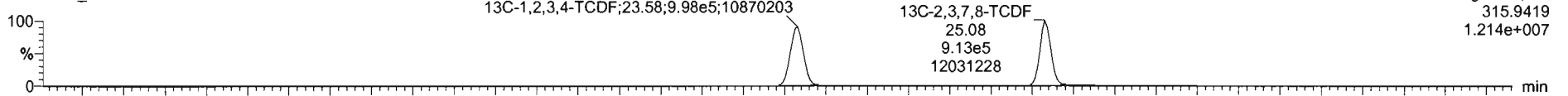


200429R2_3

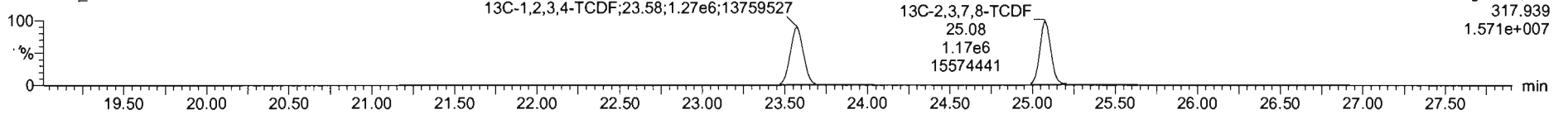


13C-2,3,7,8-TCDF

200429R2_3

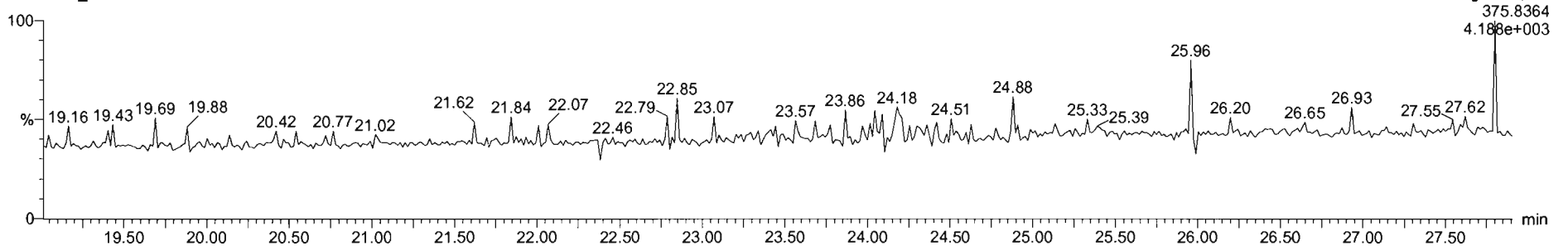


200429R2_3



DPE1

200429R2_3



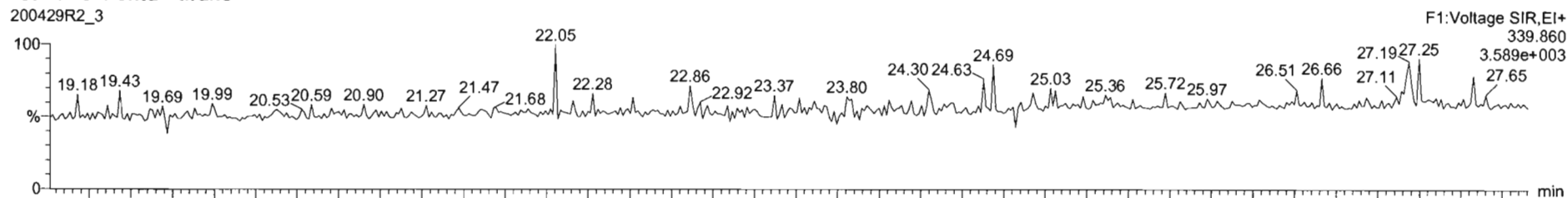
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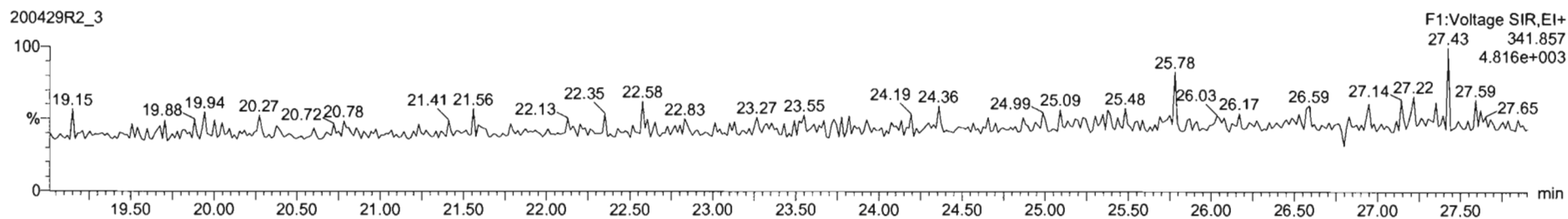
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200429R2_3

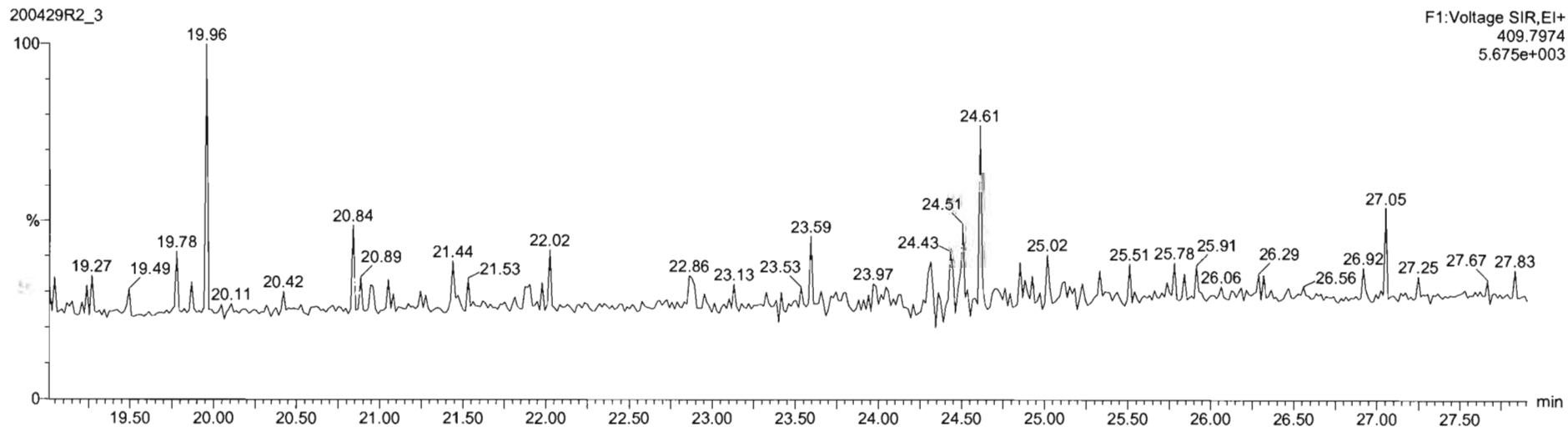


200429R2_3



DPE6

200429R2_3



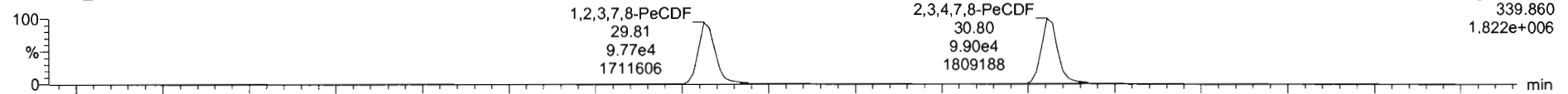
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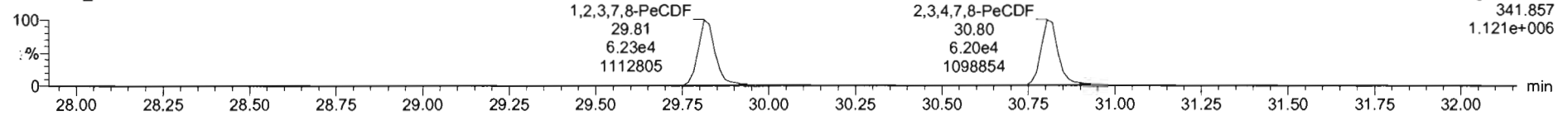
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1,2,3,7,8-PeCDF

200429R2_3

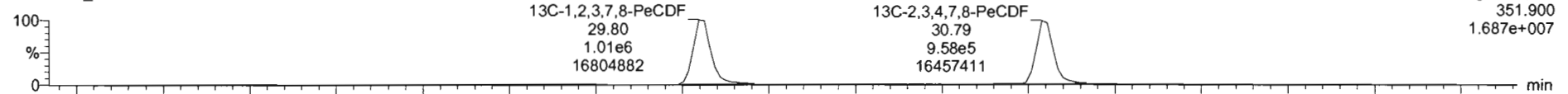


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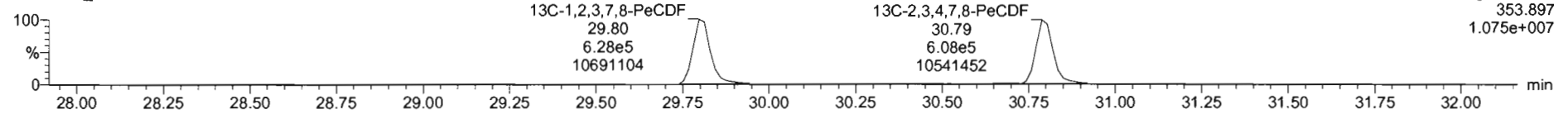


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200429R2_3

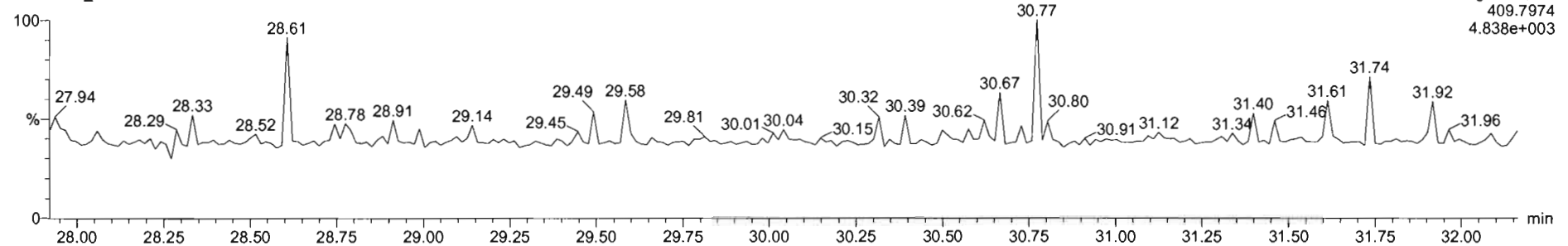


200429R2_3



DPE2

200429R2_3



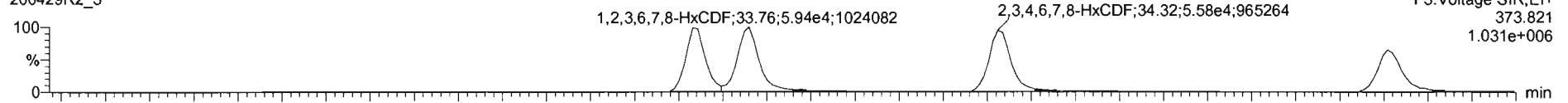
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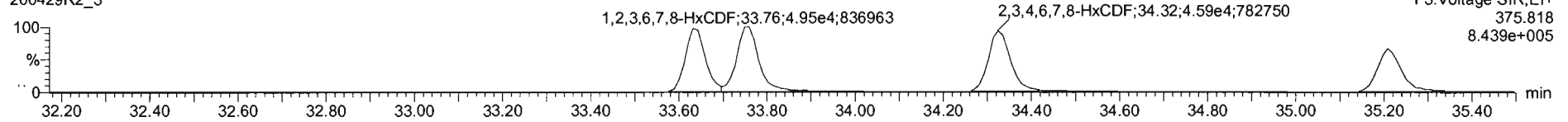
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1,2,3,4,7,8-HxCDF

200429R2_3

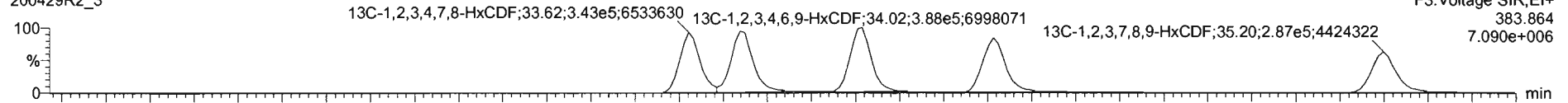


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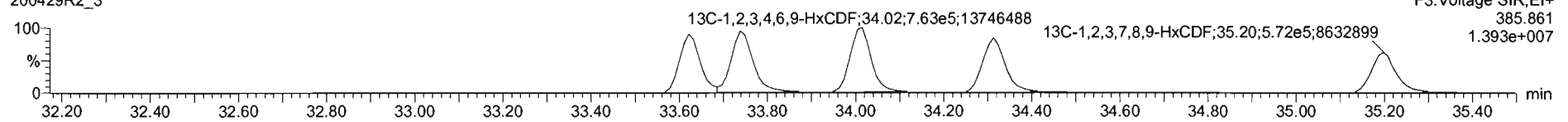


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200429R2_3

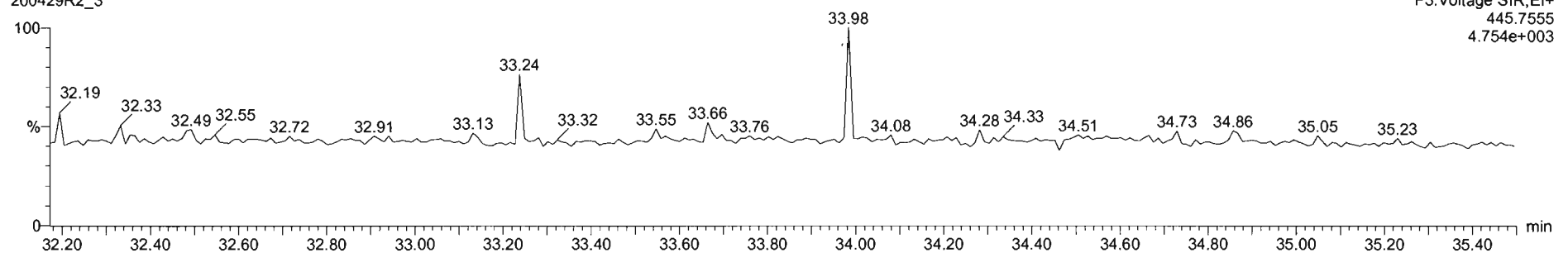


200429R2_3



DPE3

200429R2_3



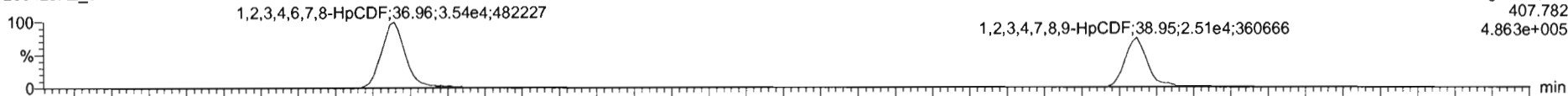
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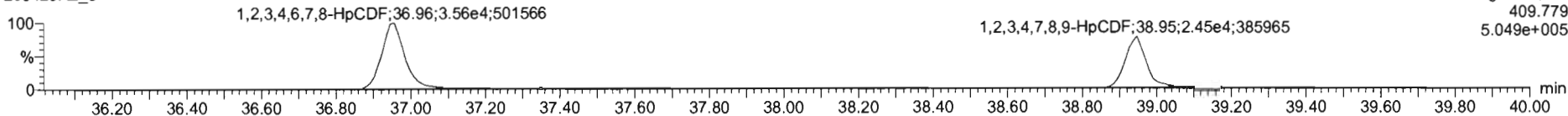
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1,2,3,4,6,7,8-HpCDF

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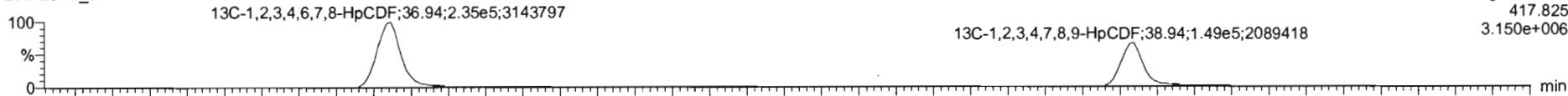


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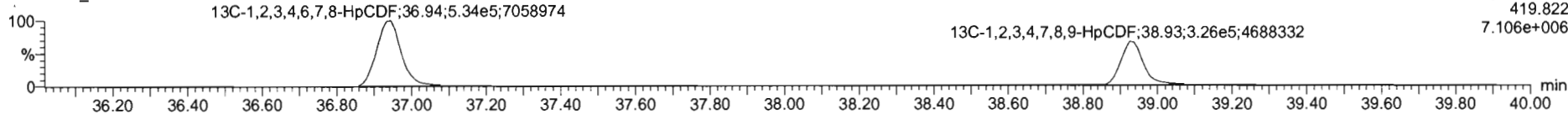


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200429R2_3

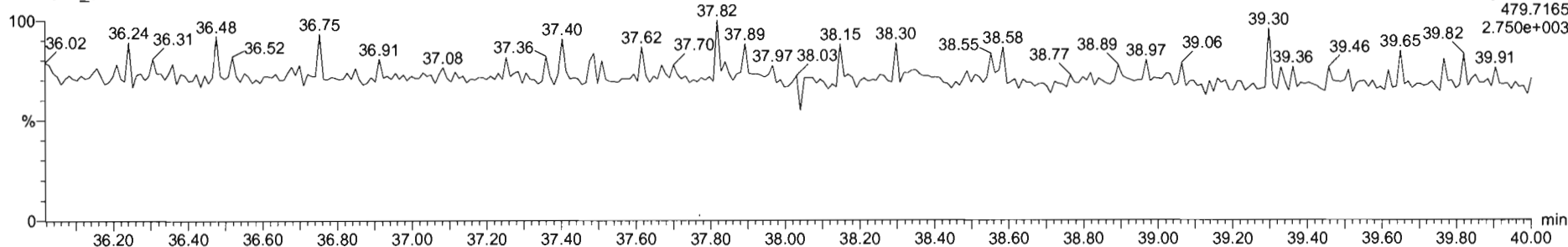


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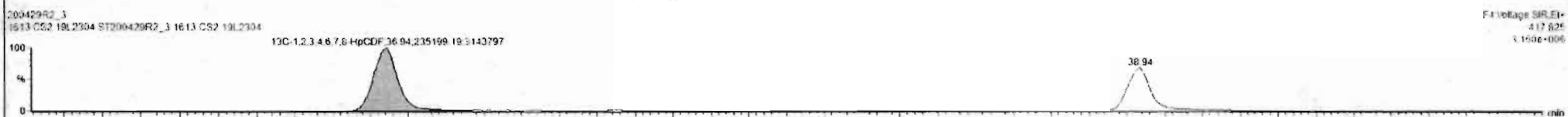
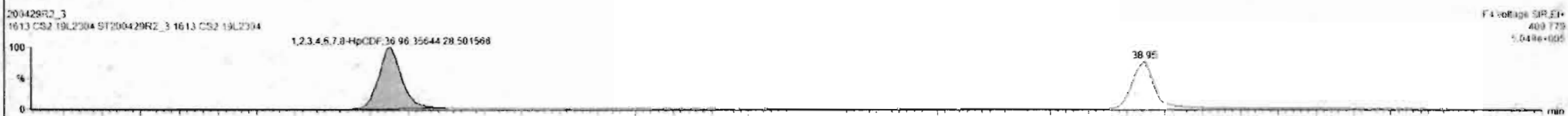
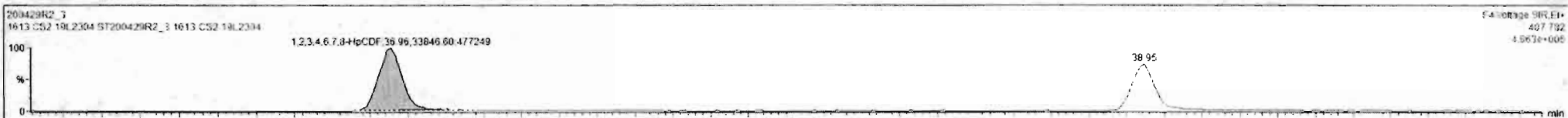


DPE4

200429R2_3



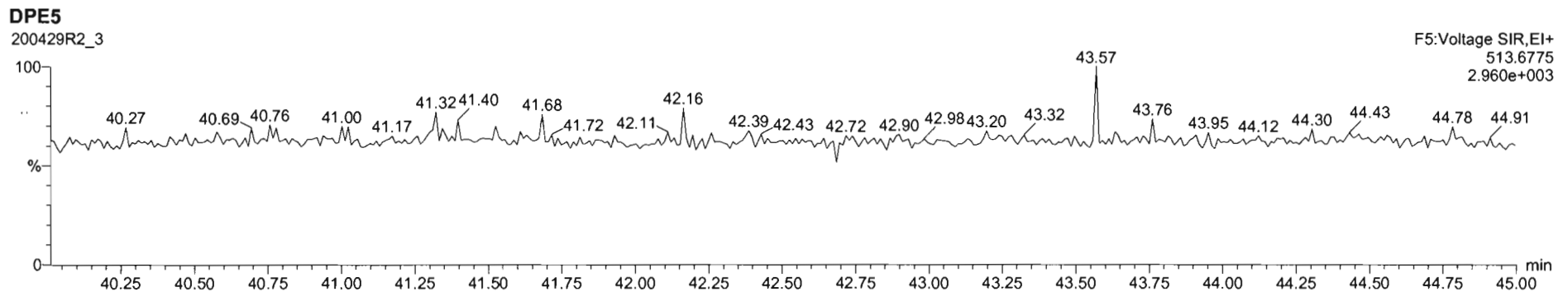
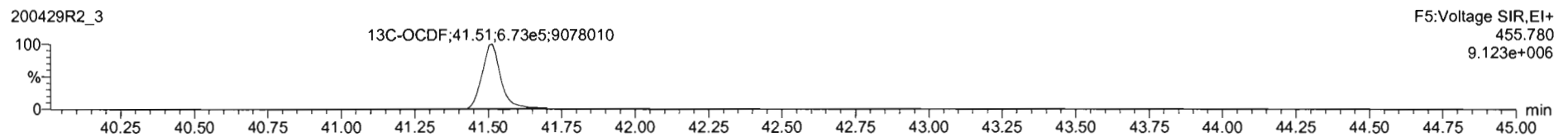
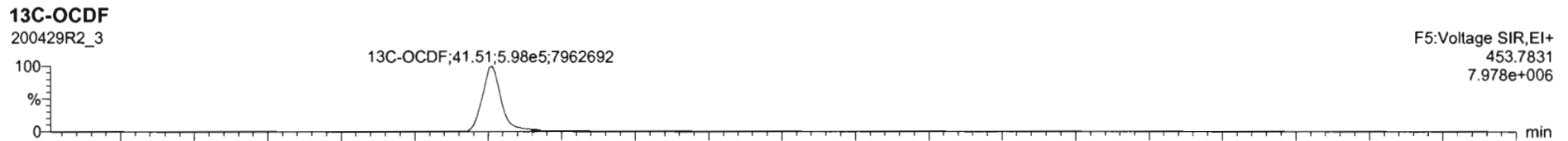
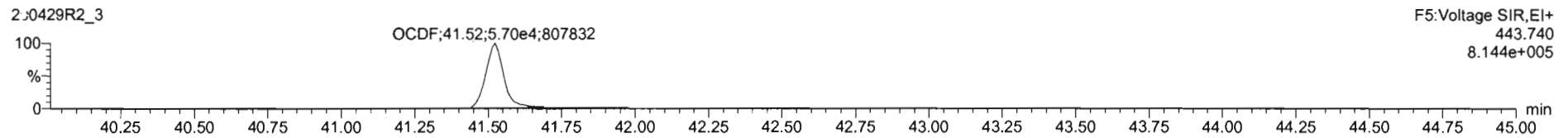
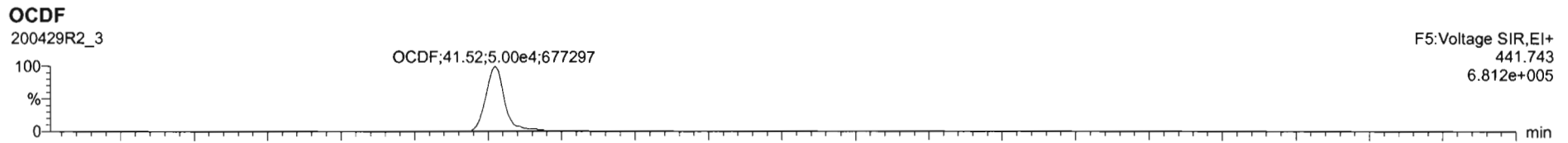
#	1	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF N	RRF SD
1	1	1,2,3,7,8-TCDD	26.95	0.757	NO	2.7677e4	1.4302e6	2.000	2.1	5.35	0.947	0.0507
2	2	1,2,3,7,8-PeCDD	31.13	0.621	NO	9.9612e4	9.9250e5	10.000	6.8	5.51	0.942	0.0519
3	3	1,2,3,4,7,8-HxCDD	34.49	1.248	NO	3.2429e4	7.5171e5	10.000	3.1	6.62	1.06	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	1.567	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	0.666	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	38.95	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

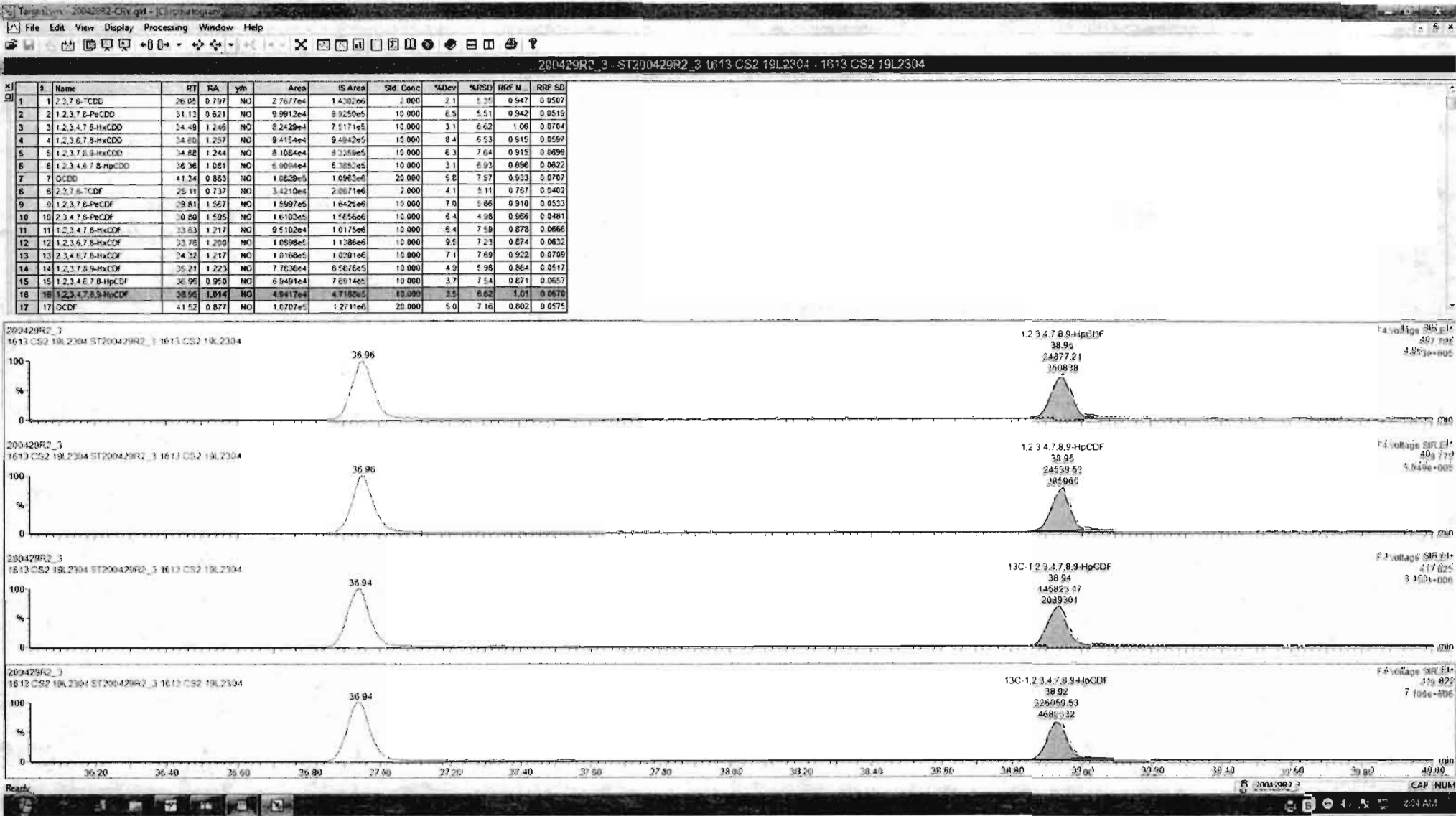


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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

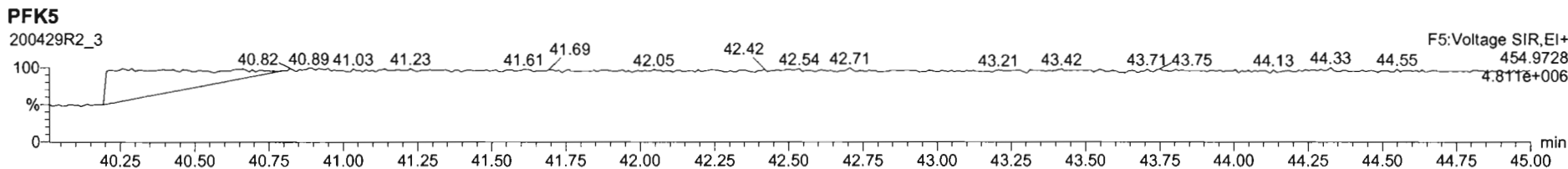
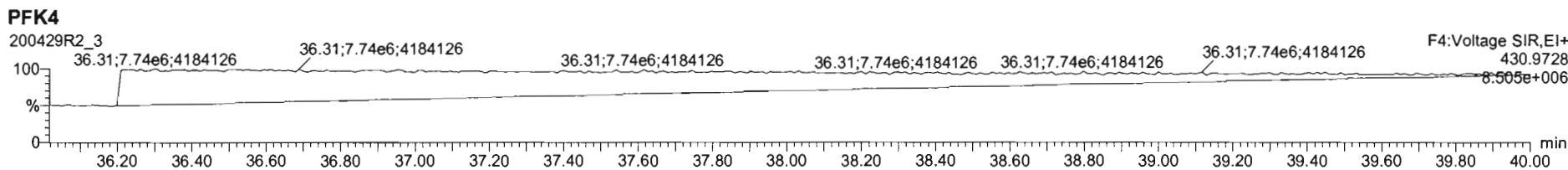
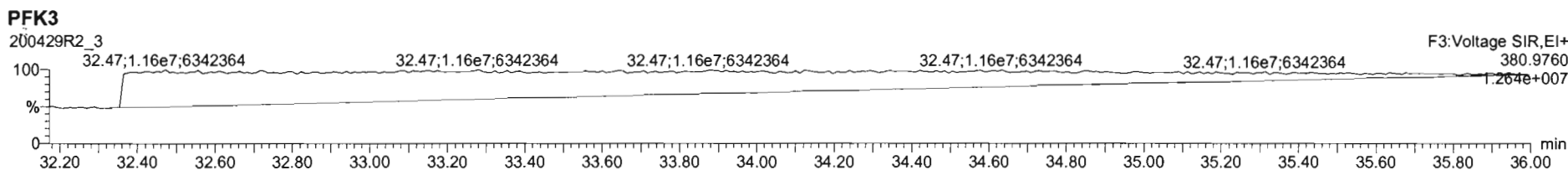
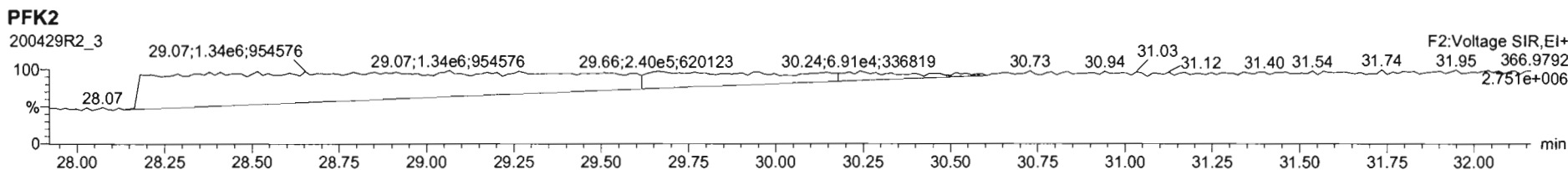
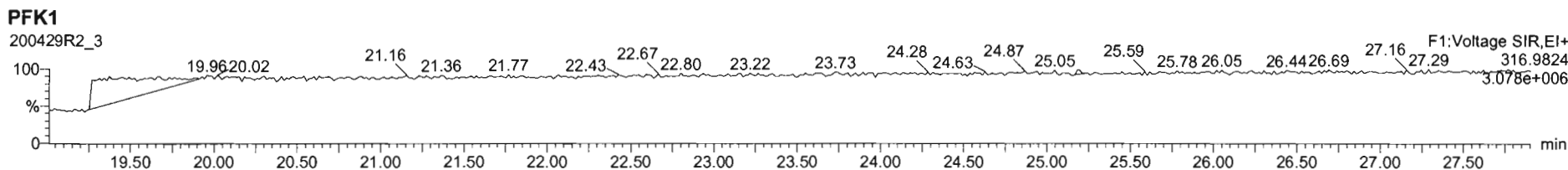




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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

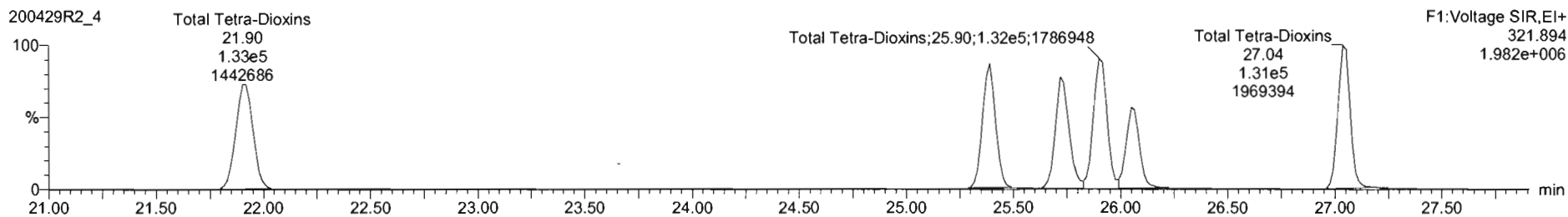
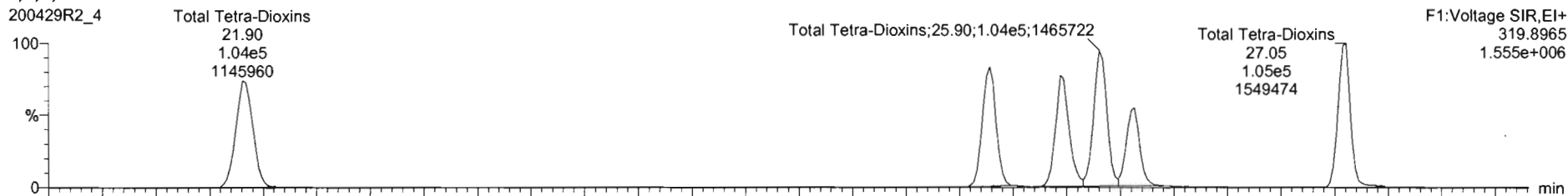


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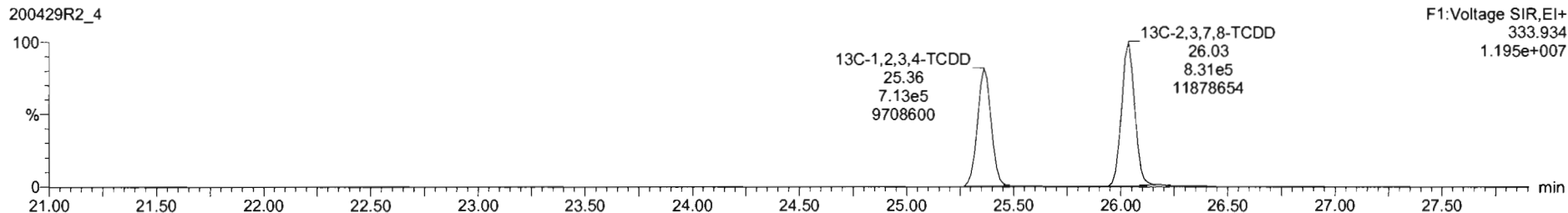
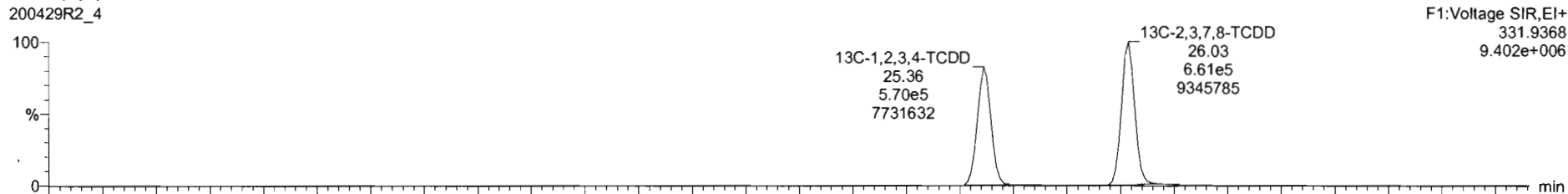
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



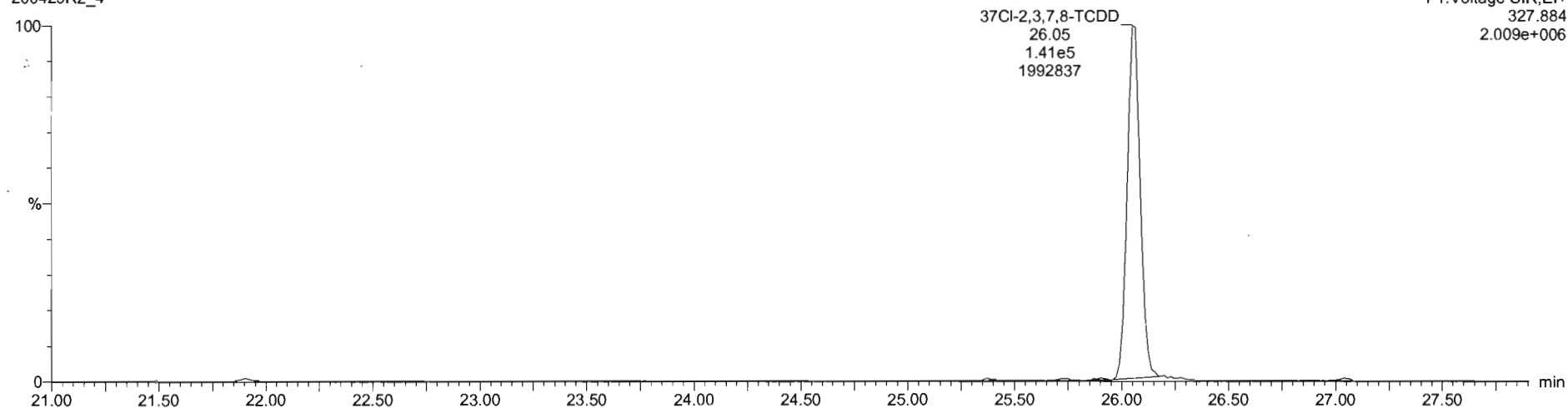
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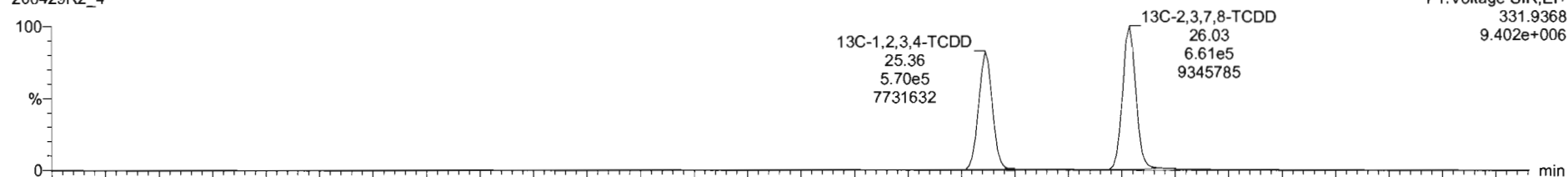
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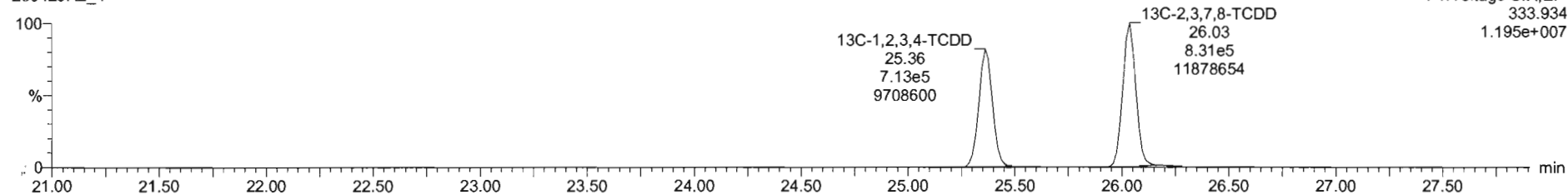


13C-1,2,3,4-TCDD

200429R2_4



200429R2_4



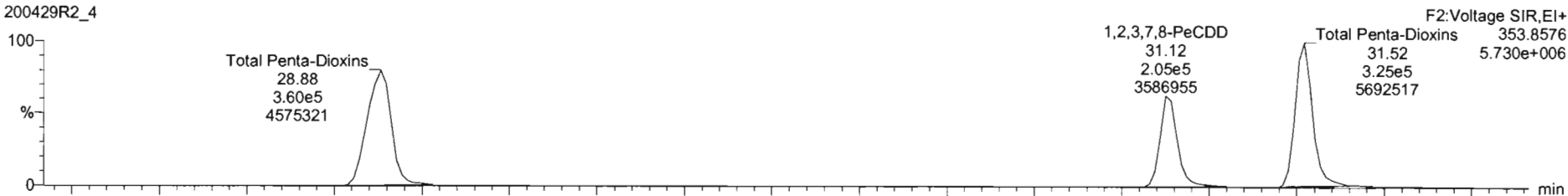
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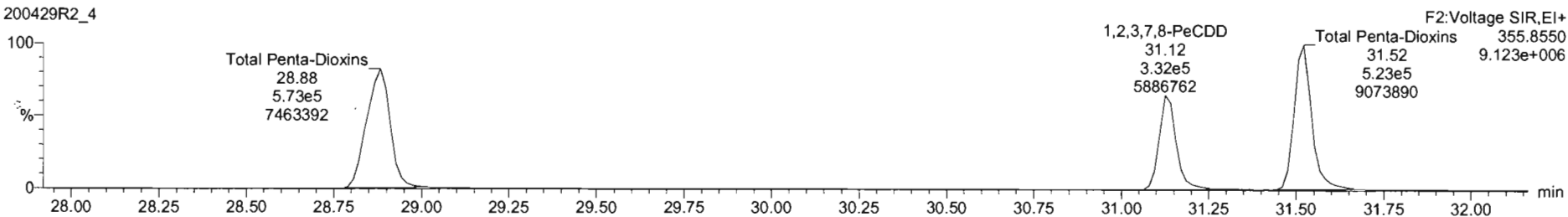
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1,2,3,7,8-PeCDD

200429R2_4

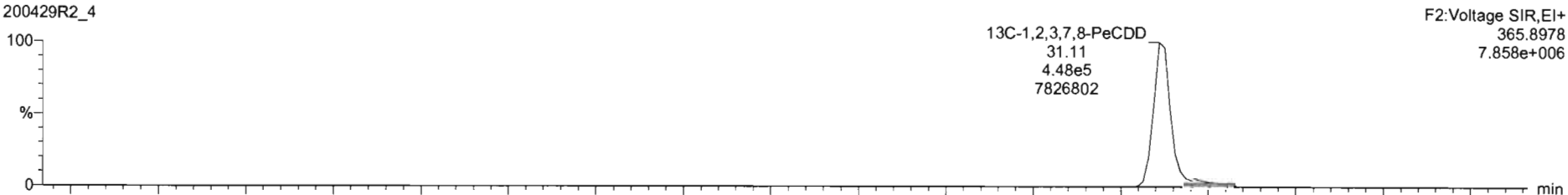


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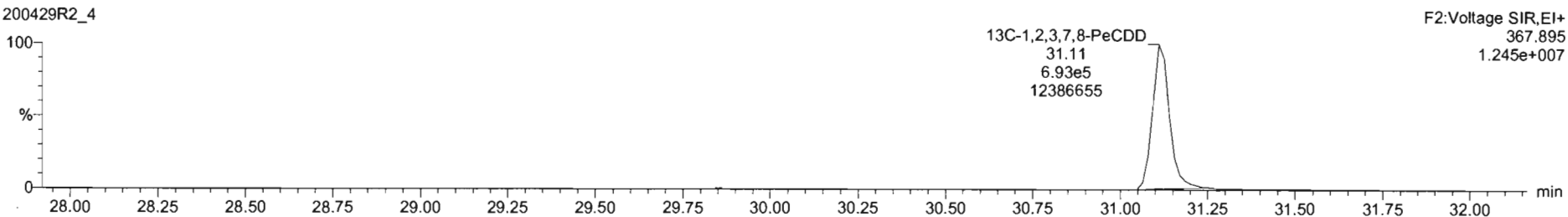


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200429R2_4



200429R2_4



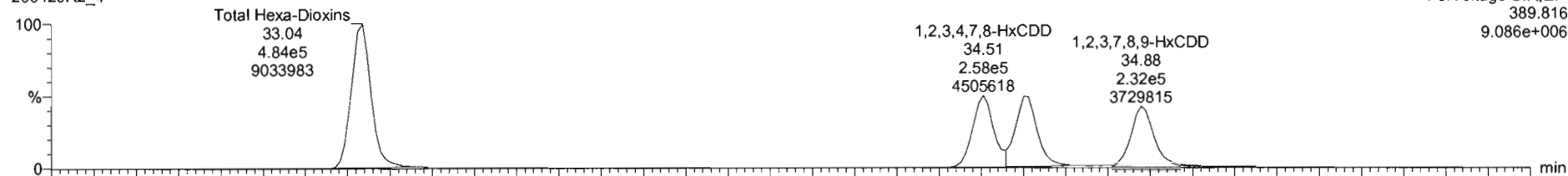
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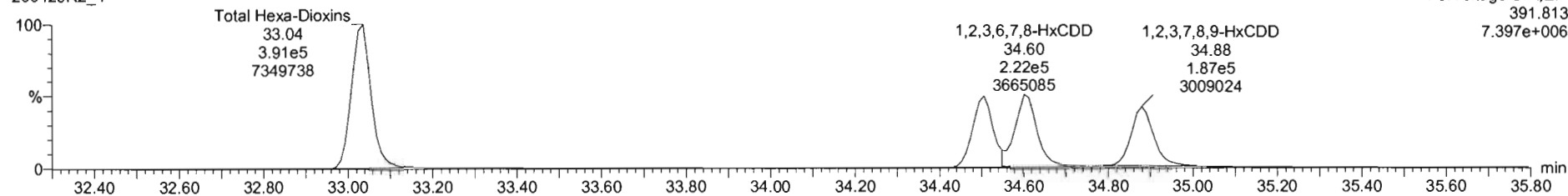
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1,2,3,4,7,8-HxCDD

200429R2_4

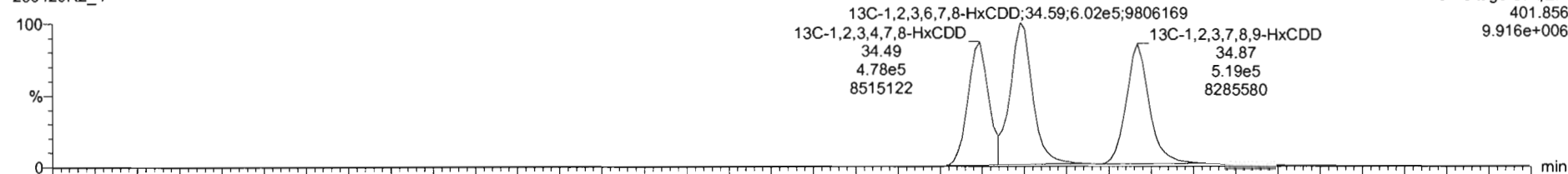


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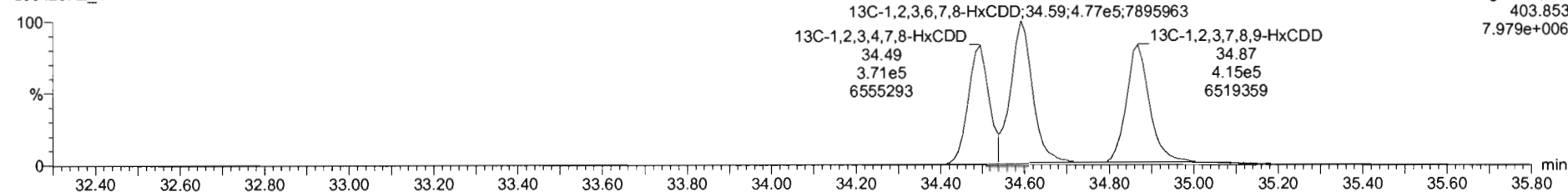


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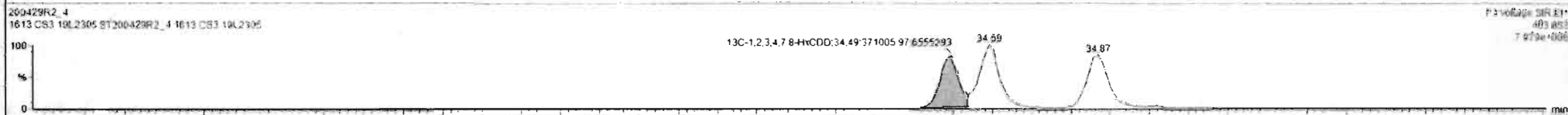
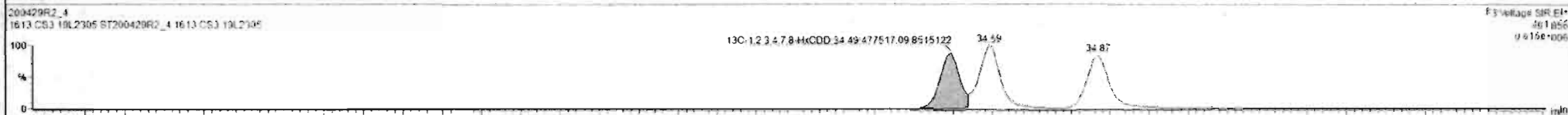
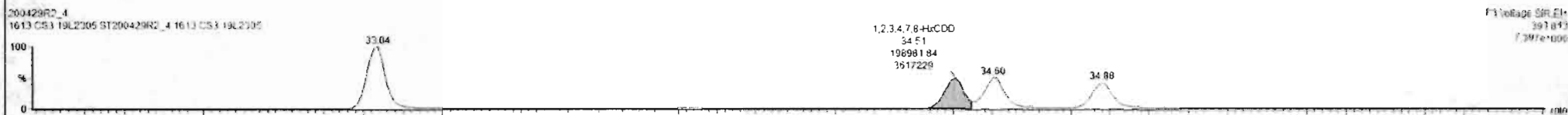
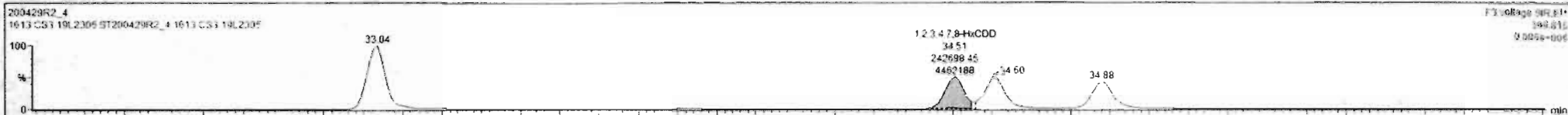
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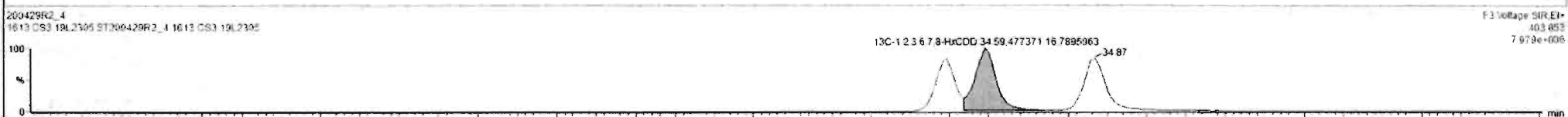
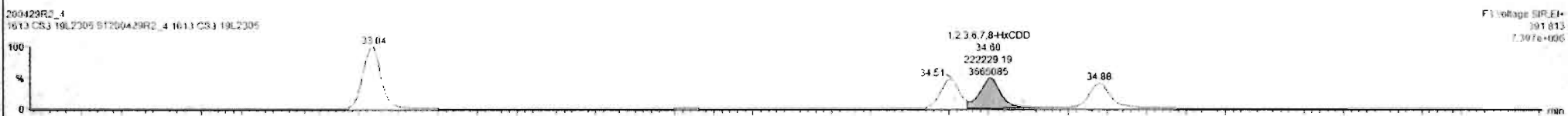
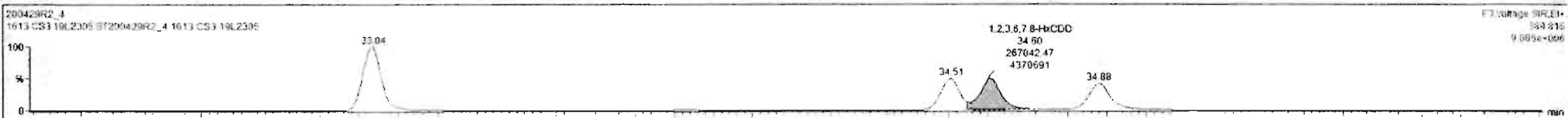
200429R2_4



#	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	0.042	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	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	0.0653
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	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3879e5	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	38.38	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	1.6822e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.9179e6	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	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	8.6485e5	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



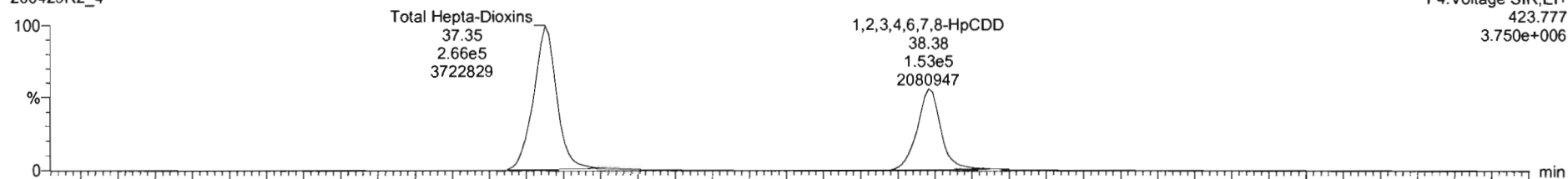
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

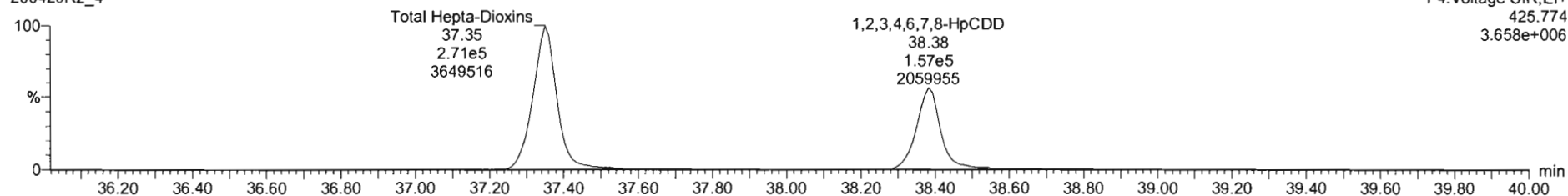
1,2,3,4,6,7,8-HpCDD

200429R2_4



F4: Voltage SIR, EI+
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3.750e+006

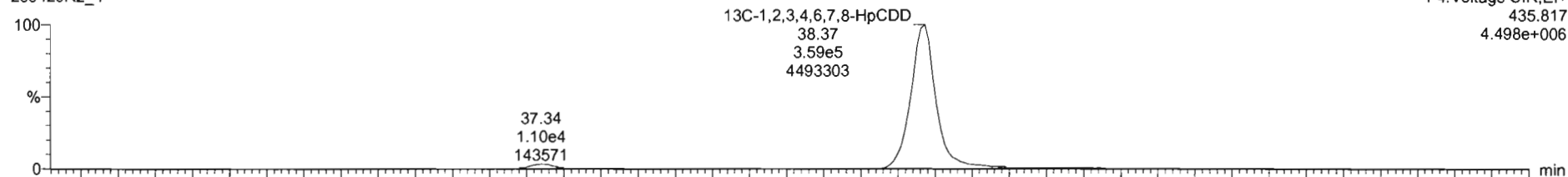
200429R2_4



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3.658e+006

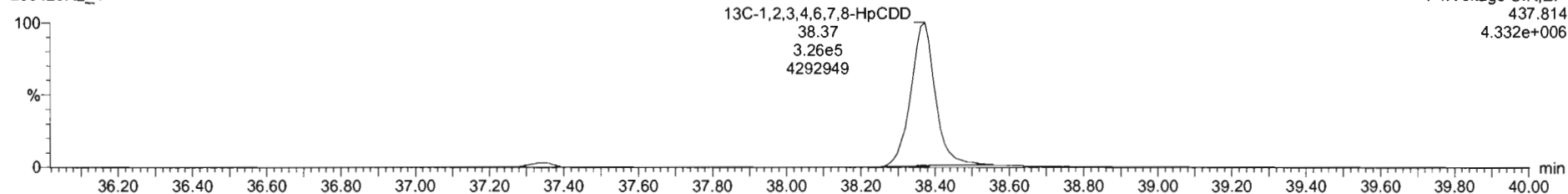
13C-1,2,3,4,6,7,8-HpCDD

200429R2_4



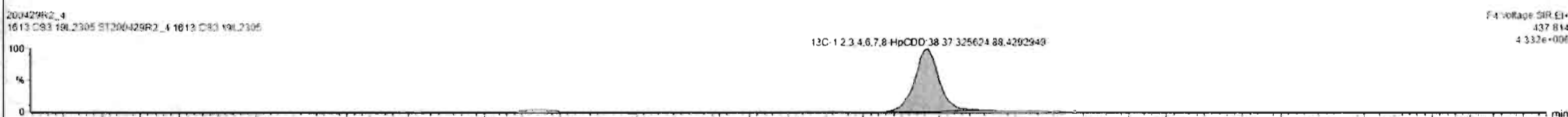
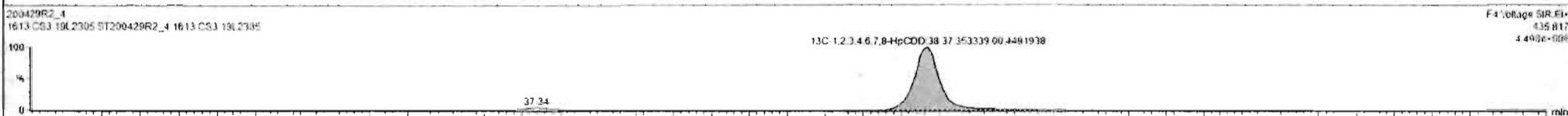
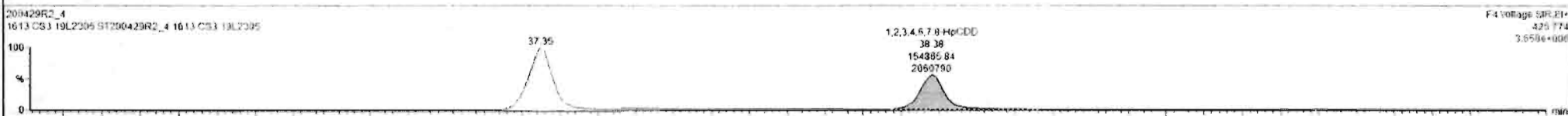
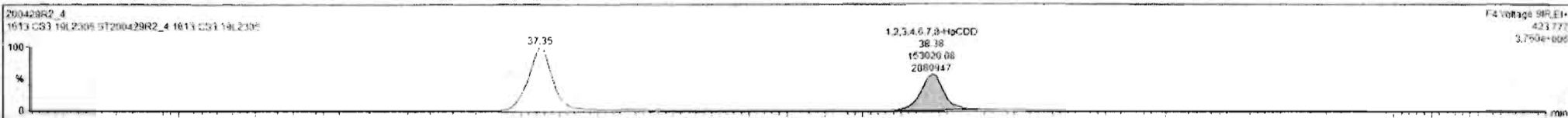
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200429R2_4



F4: Voltage SIR, EI+
437.814
4.332e+006

#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,6-7-ClDD	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	6.7596e5	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	2,3,7,8-7CDF	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	9.2834e5	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	0.0678
17	OCDF	41.53	0.862	NO	5.3639e5	1.3196e6	100.000	1.3	7.16	0.802	0.0575



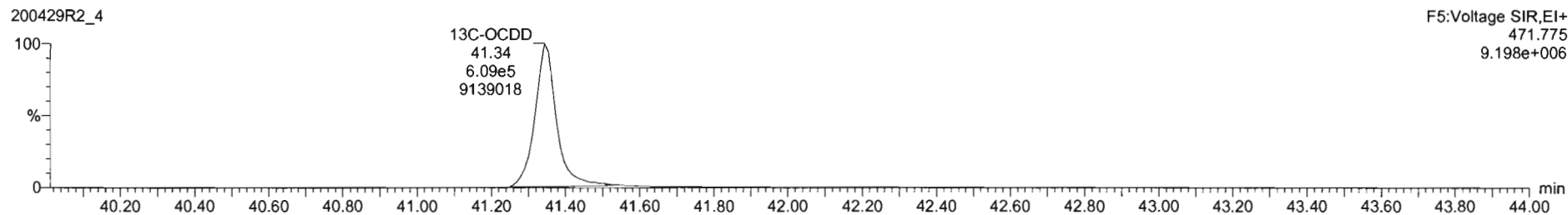
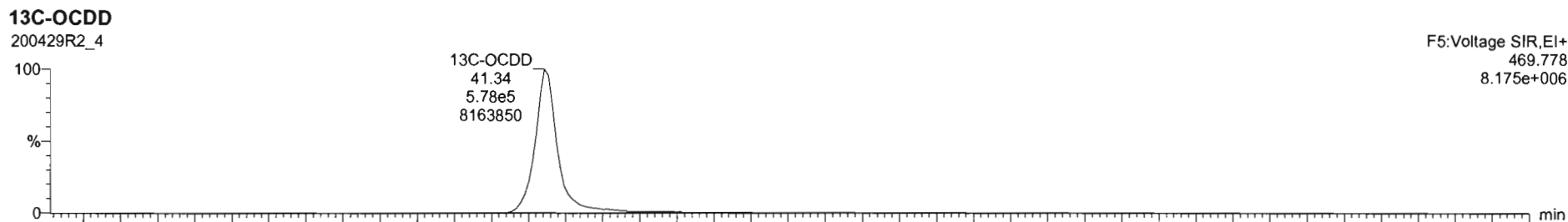
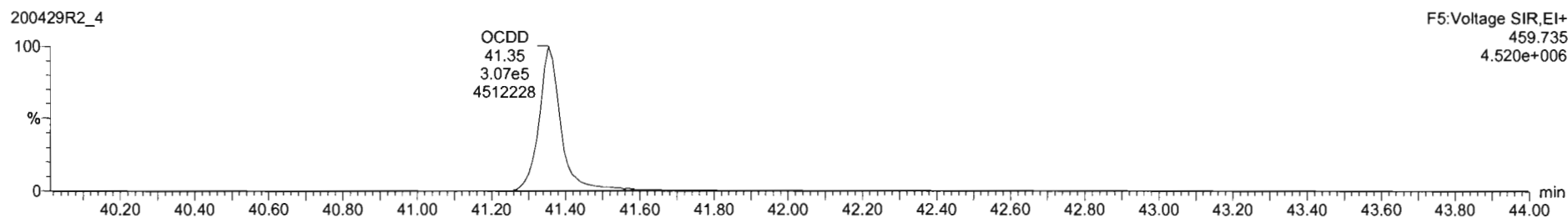
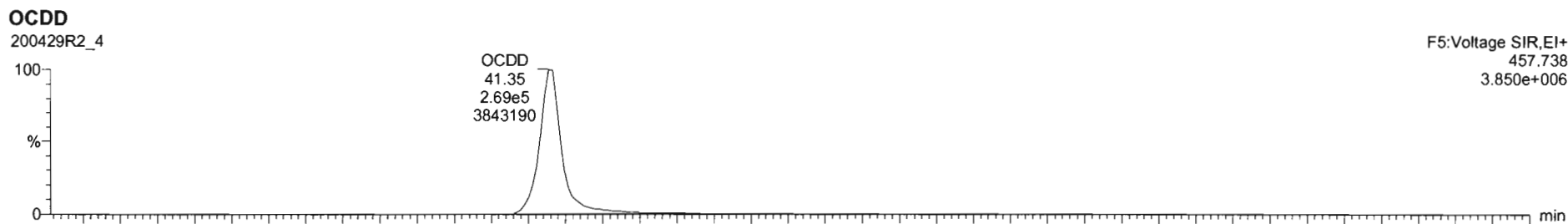
Custom Reporting: Select reports to generate

Dataset: Untitled

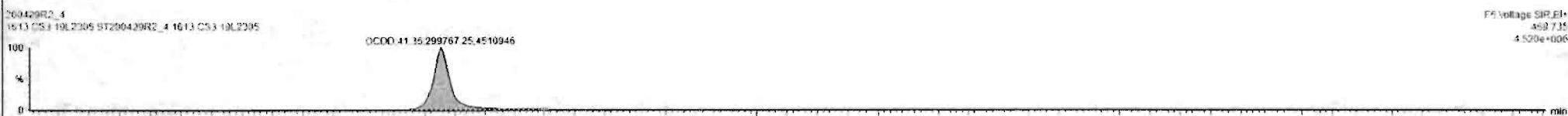
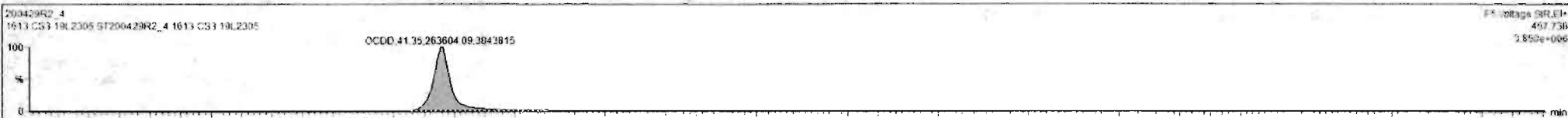
Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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	-2.2	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	5.6337e5	1.1777e6	100.000	2.5	7.57	0.833	0.0269
8	2,3,7,8-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



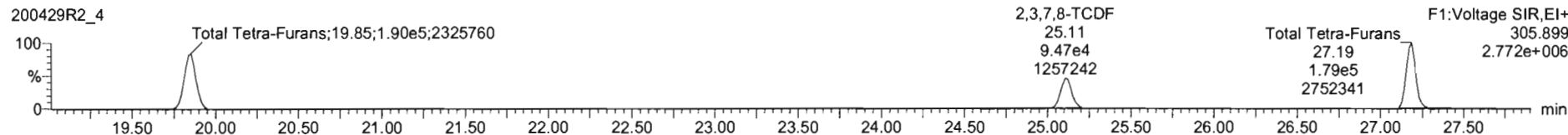
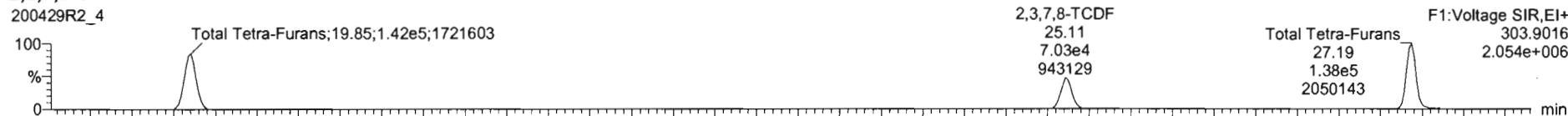
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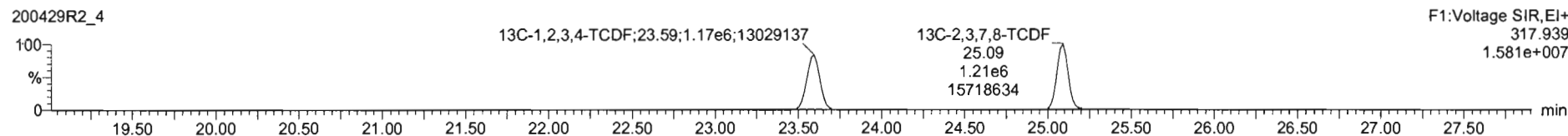
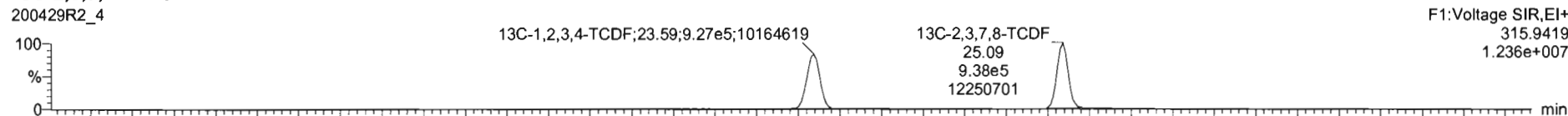
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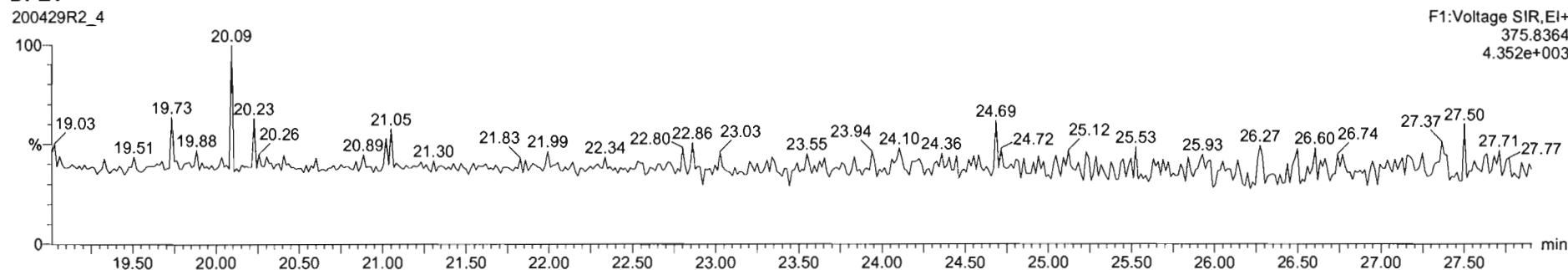
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13C-2,3,7,8-TCDF



DPE1



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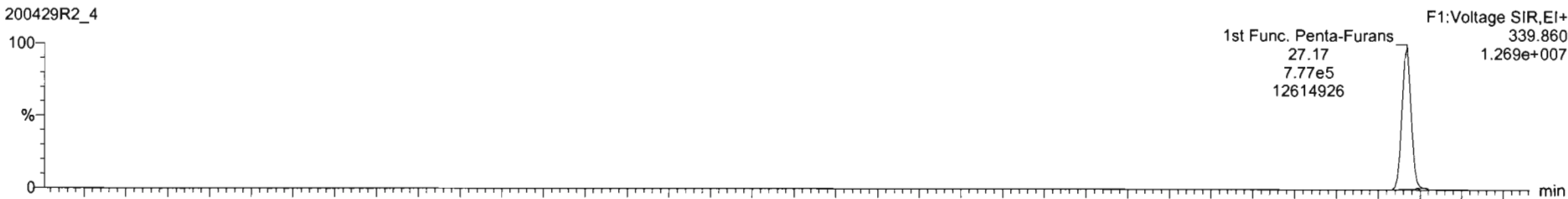
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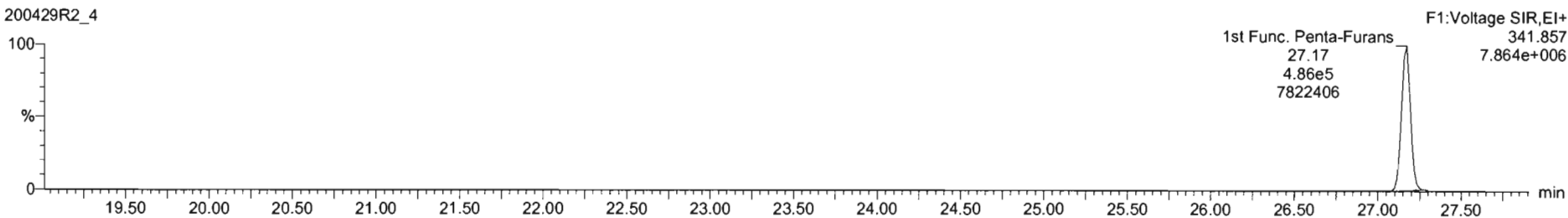
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200429R2_4

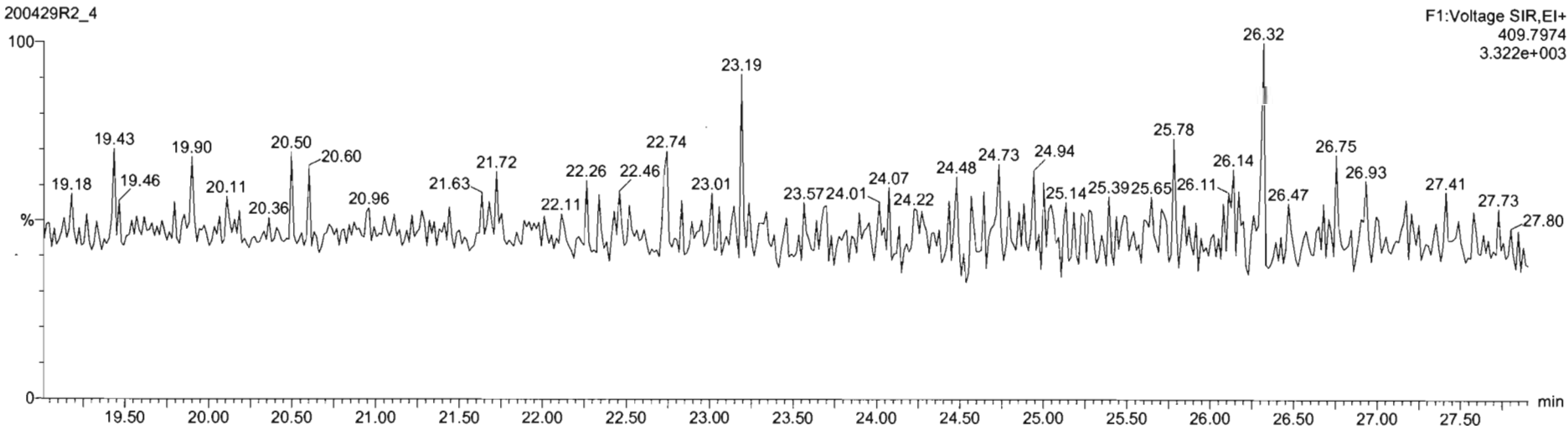


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DPE6

200429R2_4



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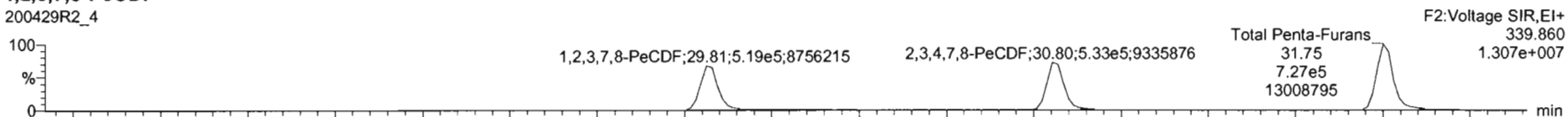
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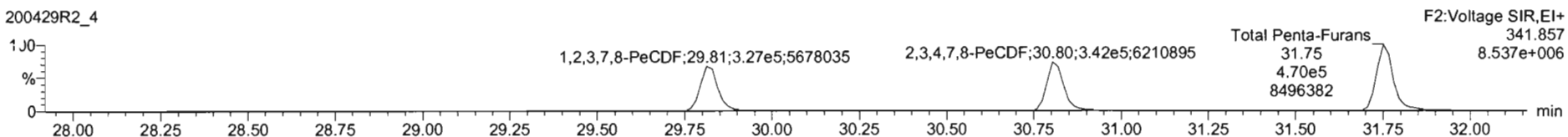
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1,2,3,7,8-PeCDF

200429R2_4

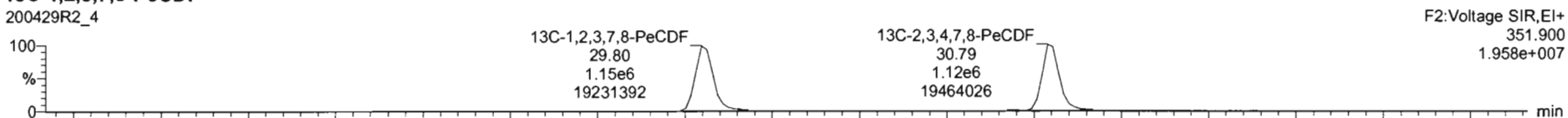


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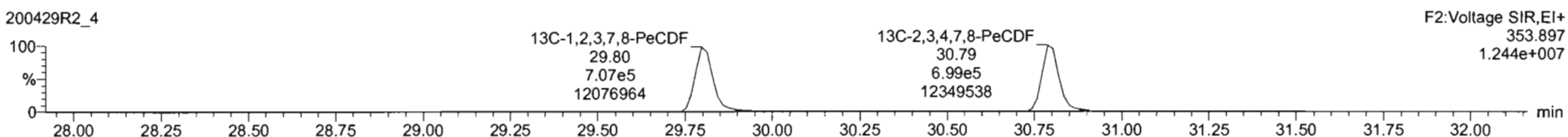


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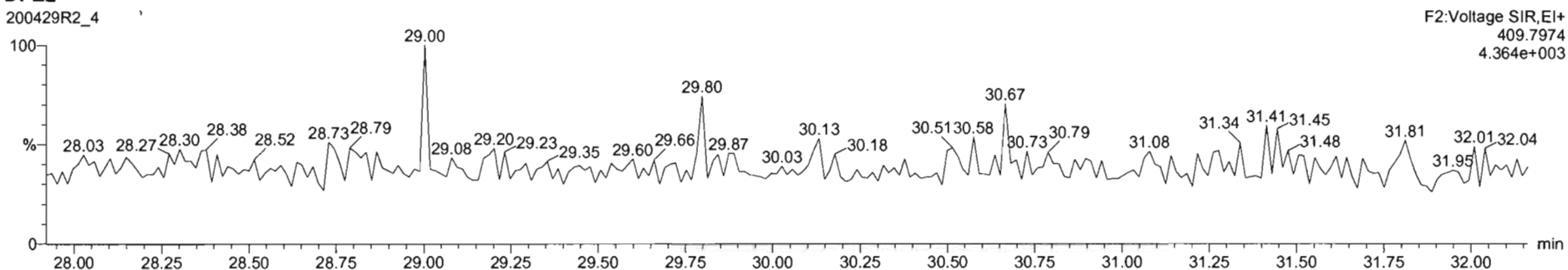


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DPE2

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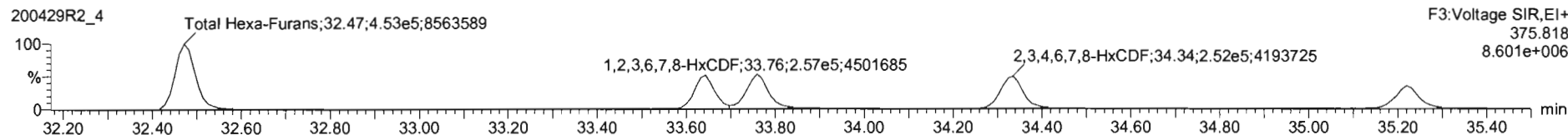
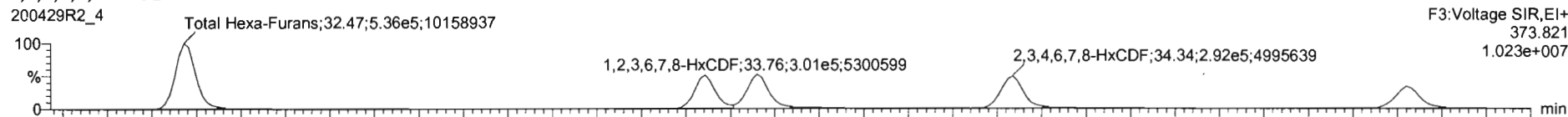


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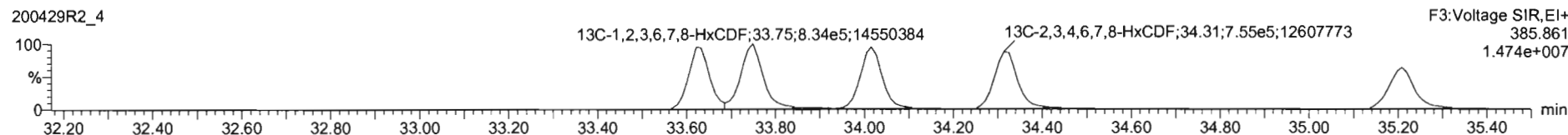
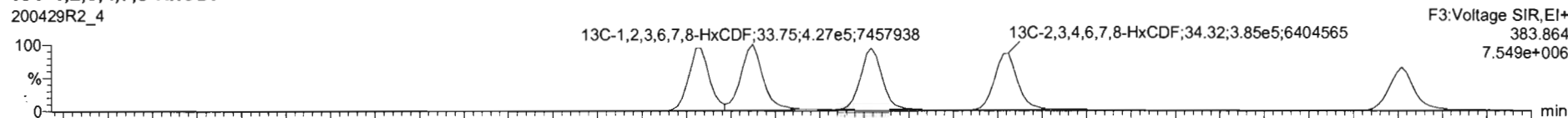
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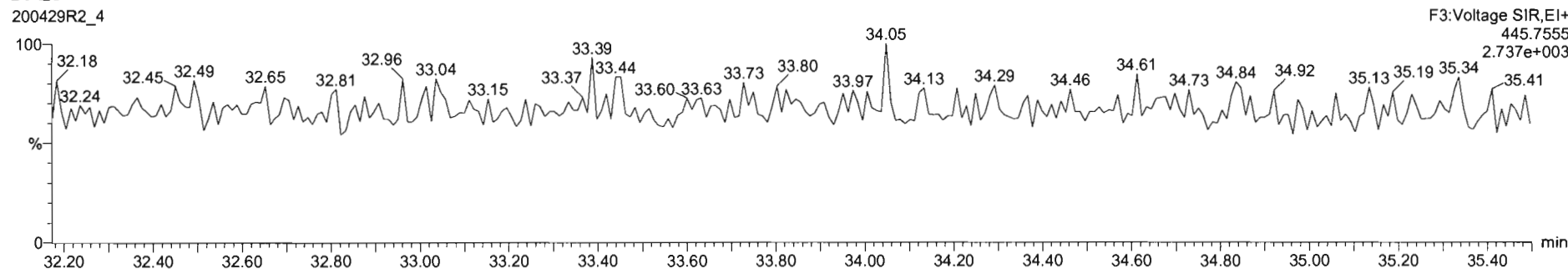
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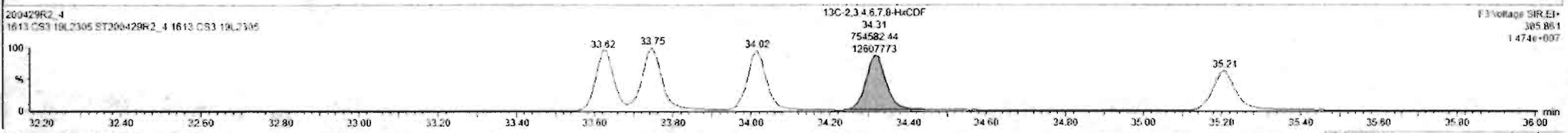
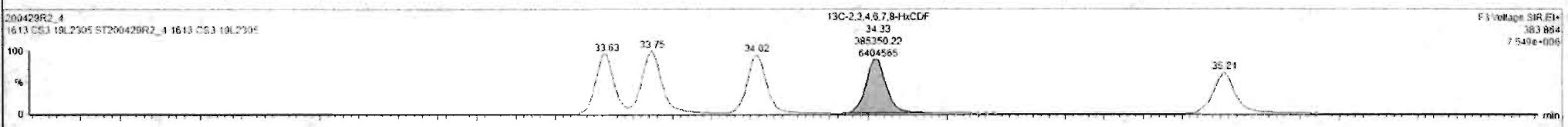
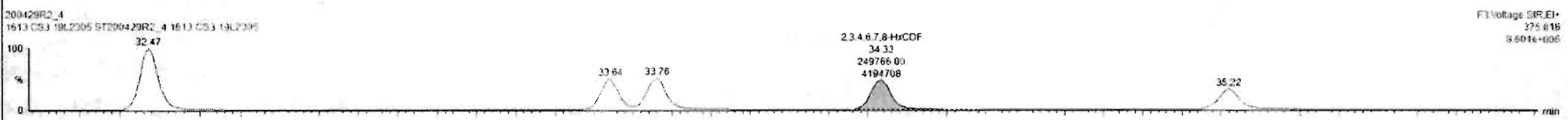
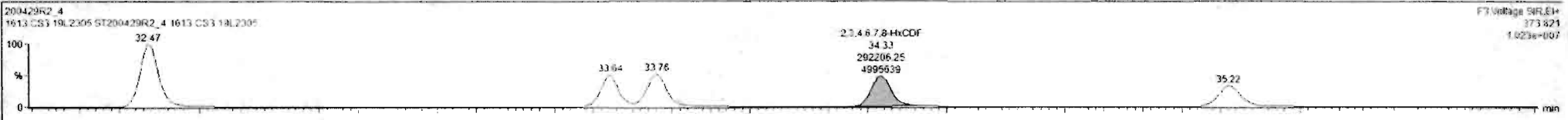
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DPE3

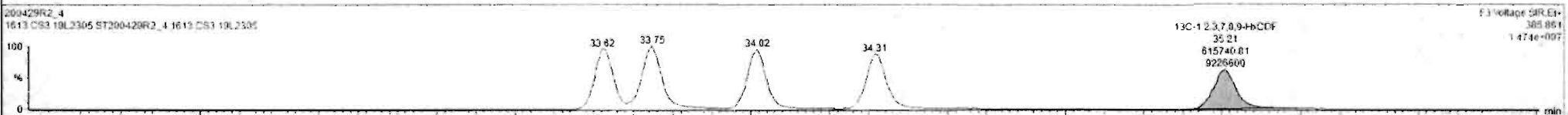
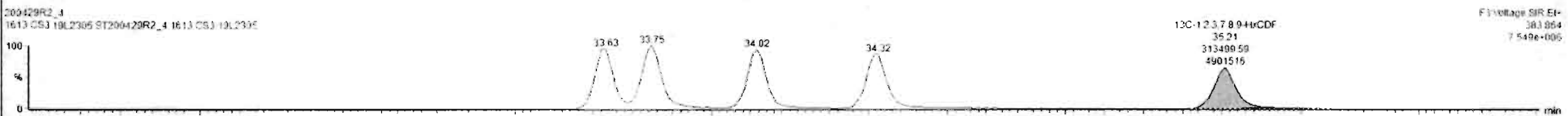
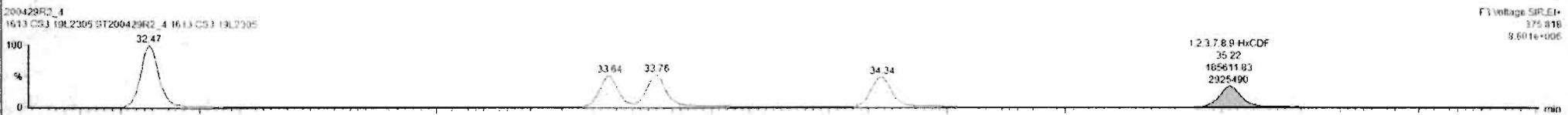


#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%PSD	RRF M.L.	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e5	10.000	0.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0516
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	8.4850e5	50.000	-2.2	6.62	1.06	0.0704
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-HxCDF	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	2.1491e6	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	1.3188e6	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	5.2670e5	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	4.4160e5	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	2.0760e5	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	IB	4.6244e5	9.2024e5	50.000	0.2	5.96	0.804	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7234e5	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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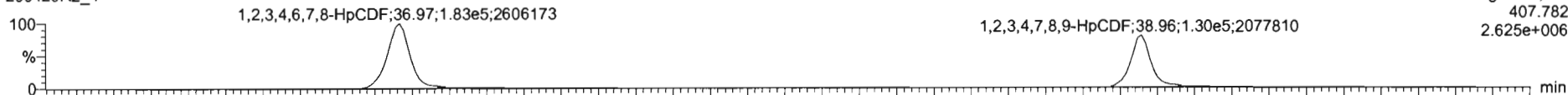
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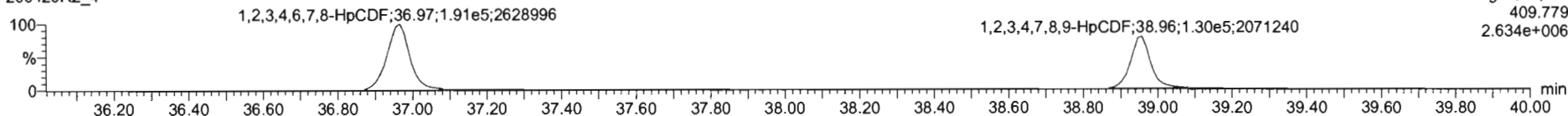
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200429R2_4



200429R2_4

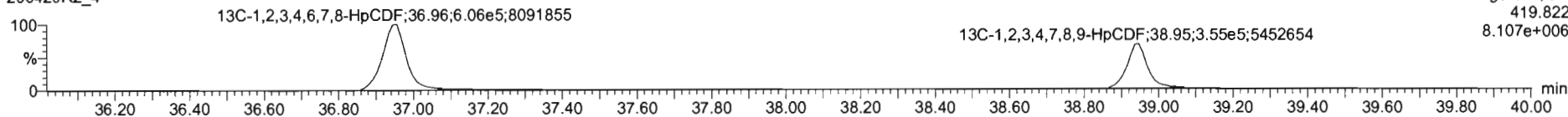


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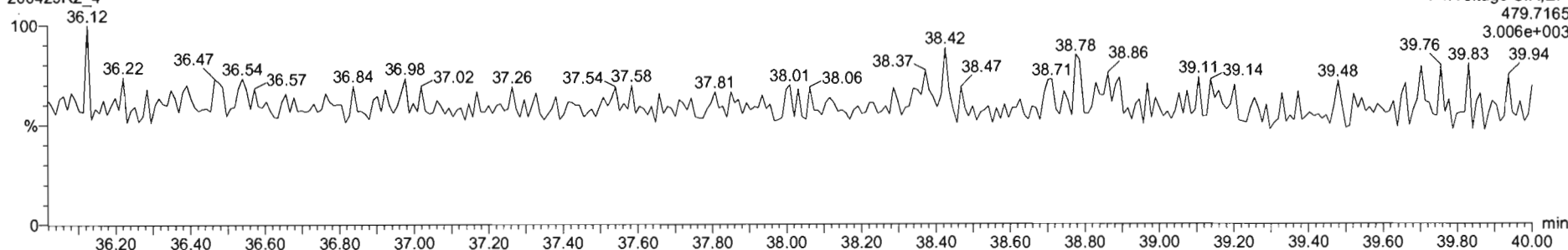


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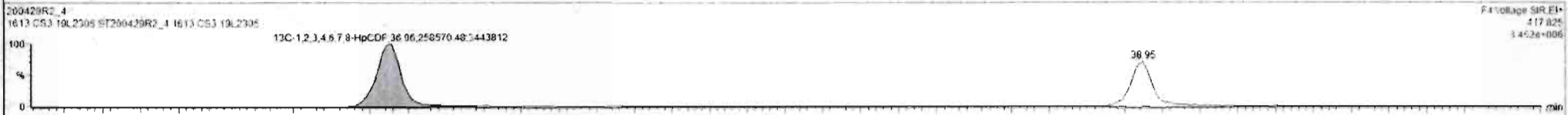
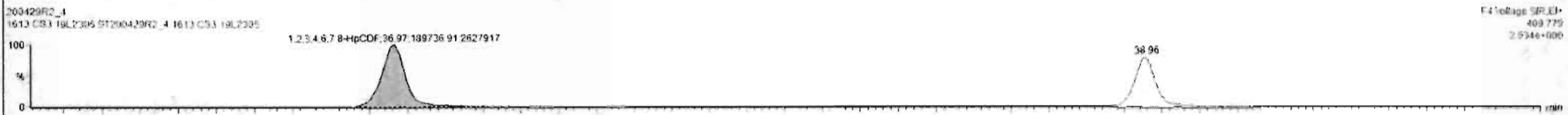


DPE4

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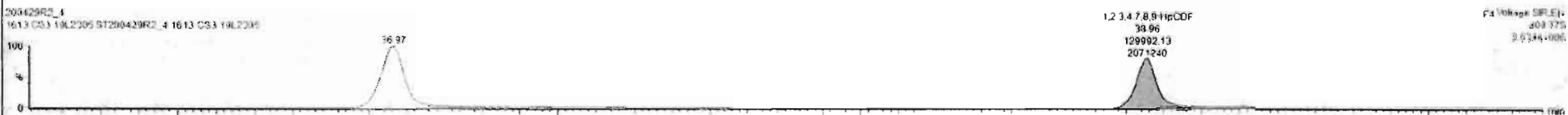
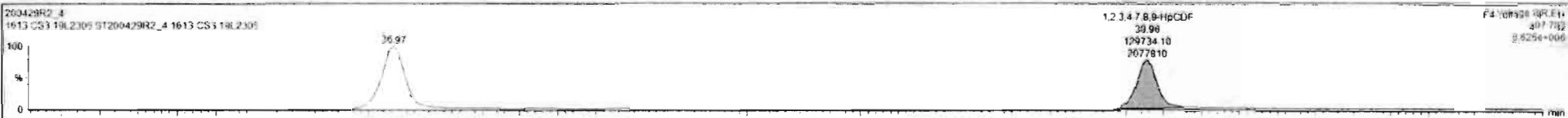


#	s	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1	1,2,3,7,8-TCDD	26.07	0.751	NO	1.4250e5	1.4820e6	10.000	0.8	5.25	0.947	0.0507
2	2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.2679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4160e5	3.4852e5	50.000	-2.2	6.62	1.06	0.0704
4	4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8927e5	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	5.6237e5	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	0.962	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



Custom Reporting: Select reports to generate

#	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	9.3815e5	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	1.6582e6	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	0.968	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



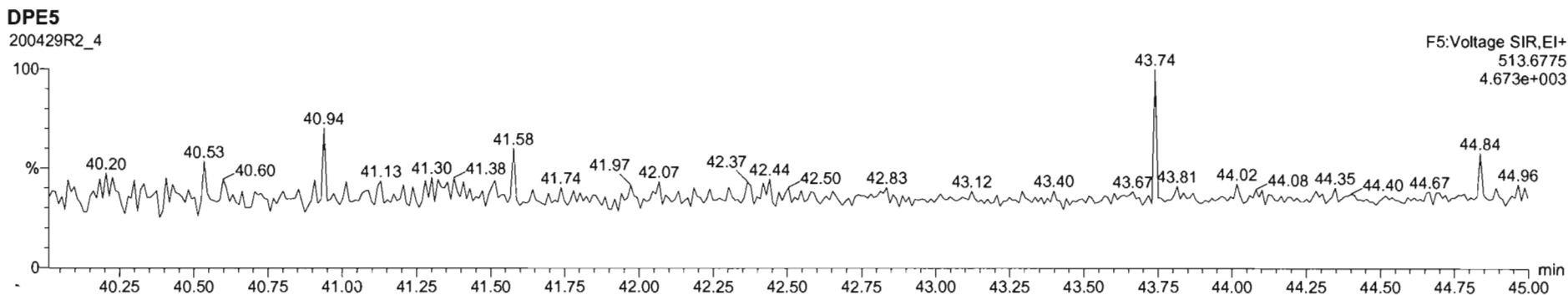
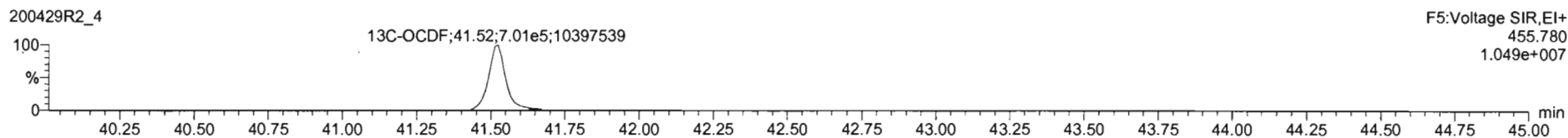
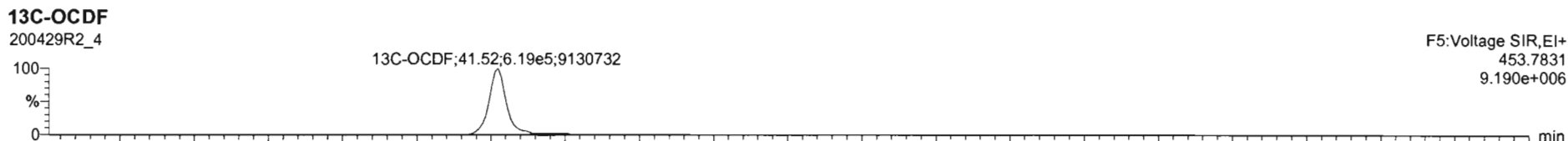
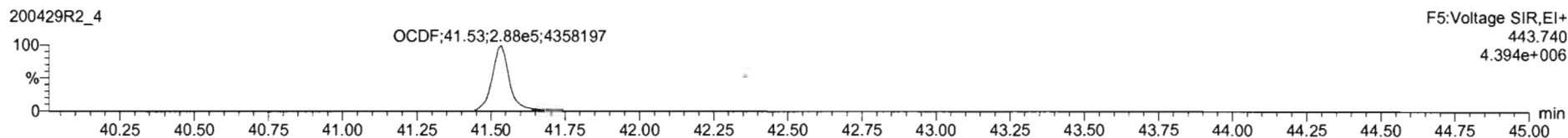
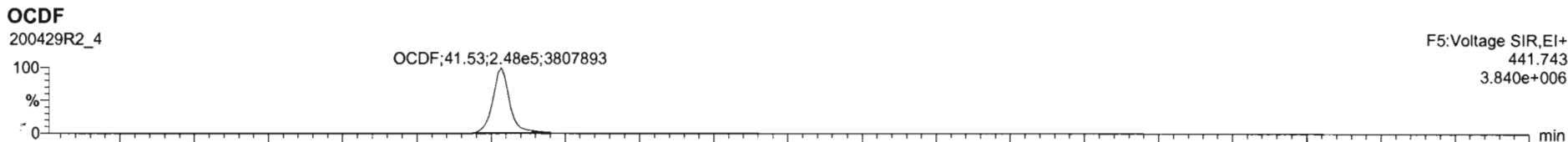
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200429R2_4 CAP NUM

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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

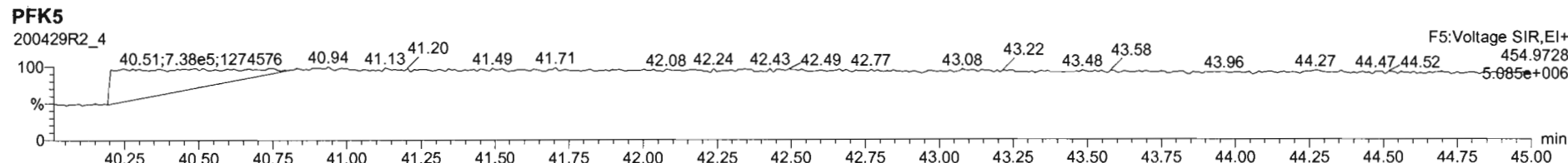
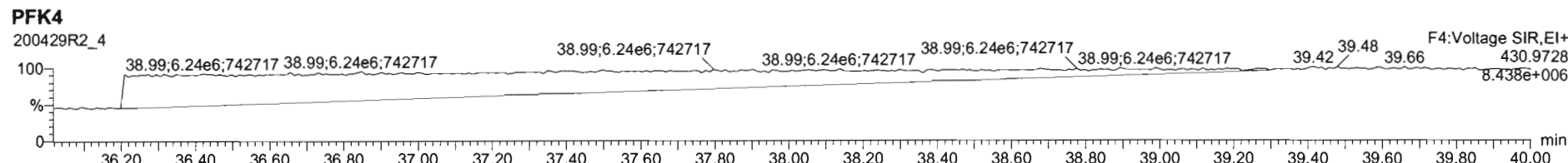
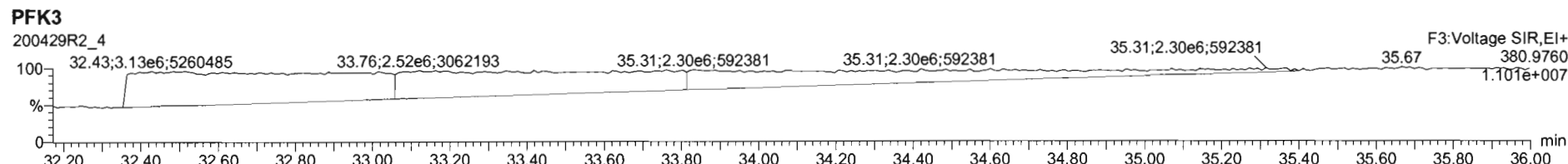
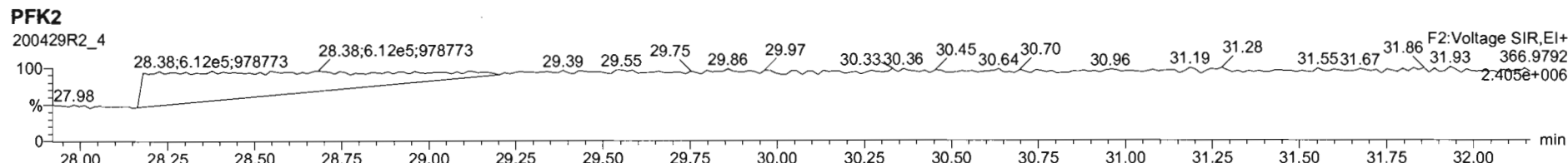
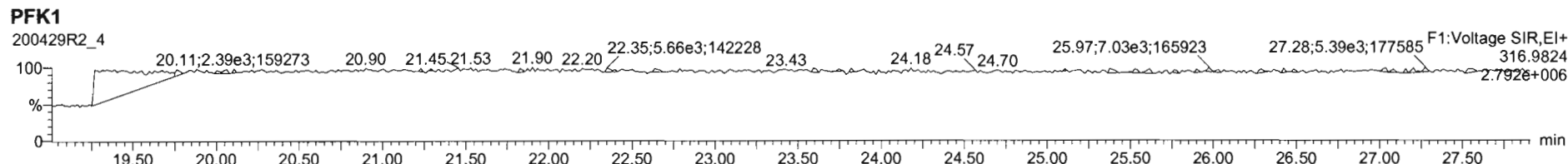
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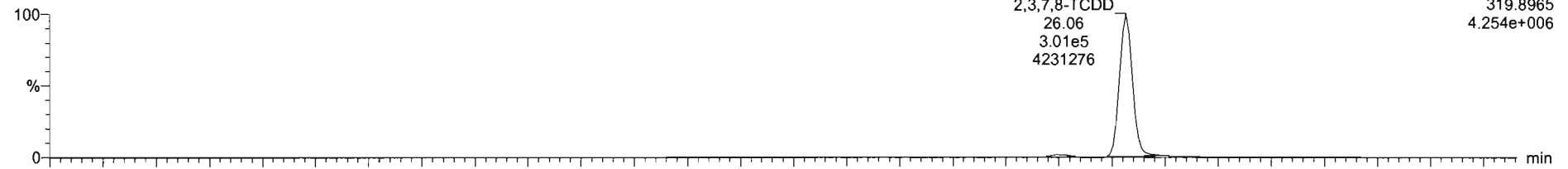
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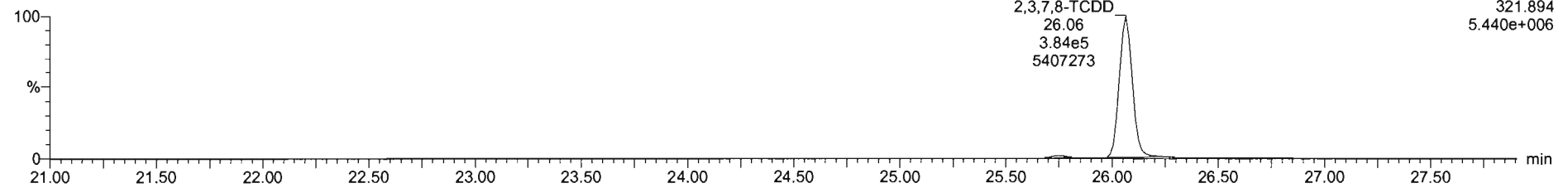
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2,3,7,8-TCDD

200429R2_5

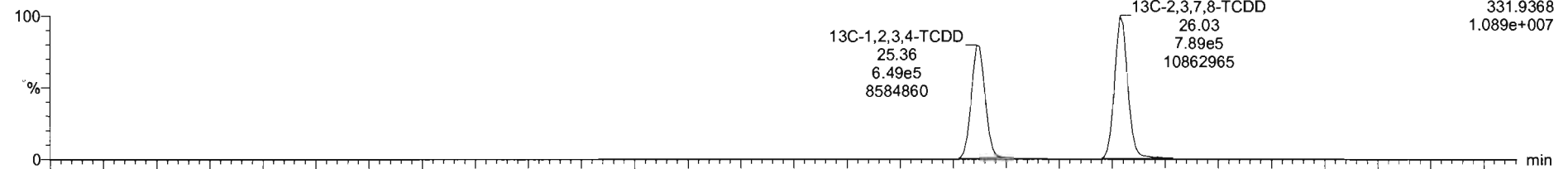


200429R2_5

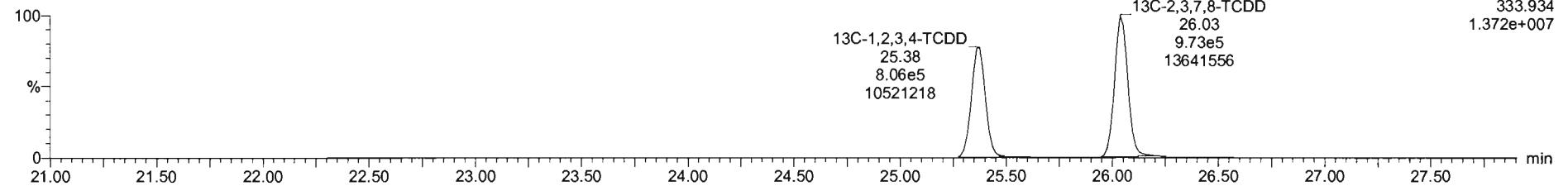


13C-2,3,7,8-TCDD

200429R2_5



200429R2_5



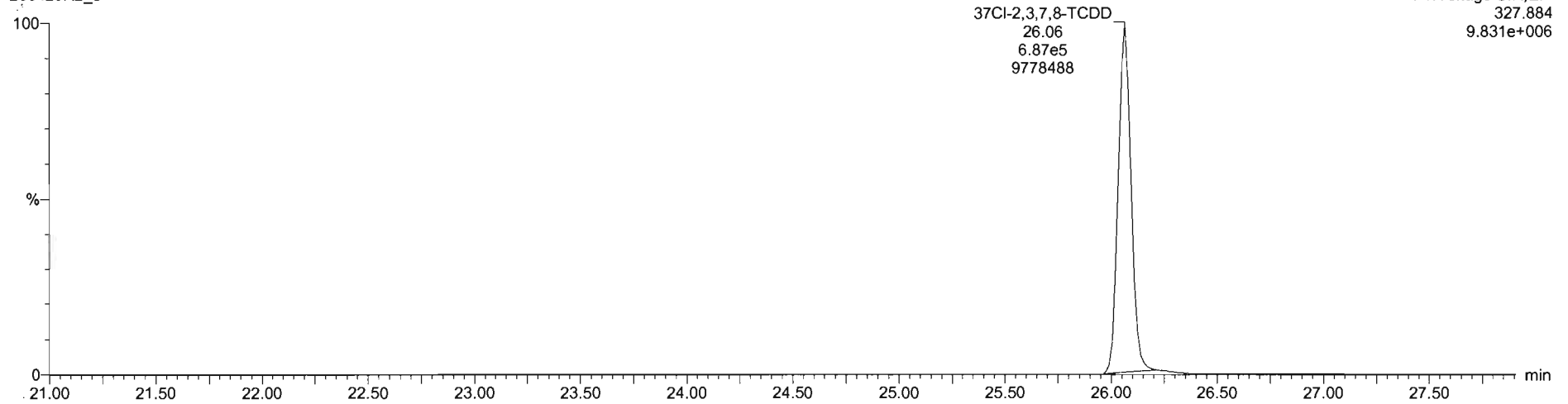
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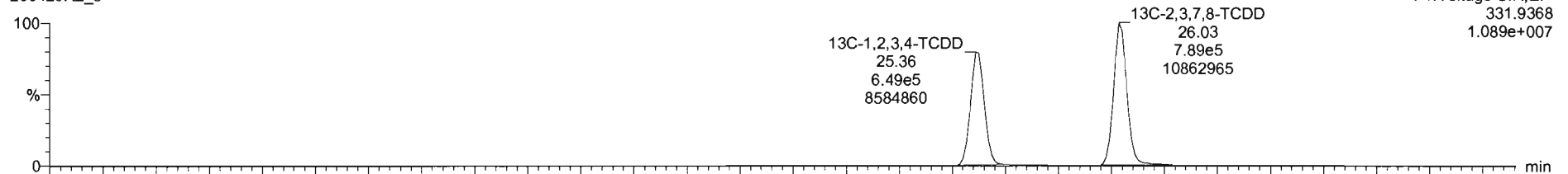
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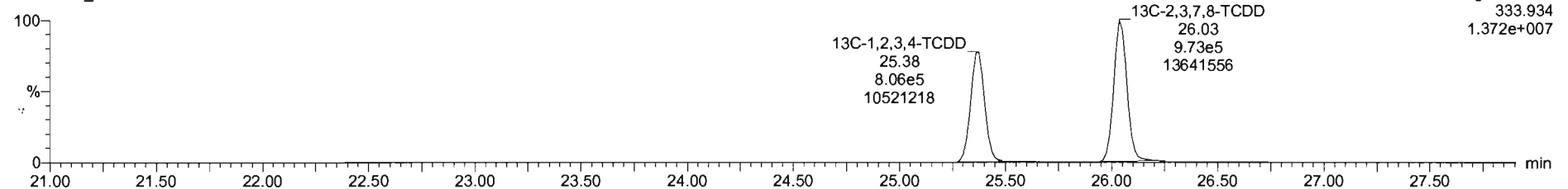


13C-1,2,3,4-TCDD

200429R2_5



200429R2_5



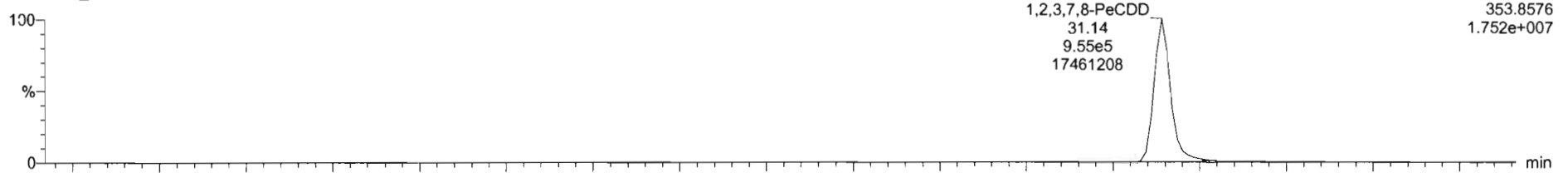
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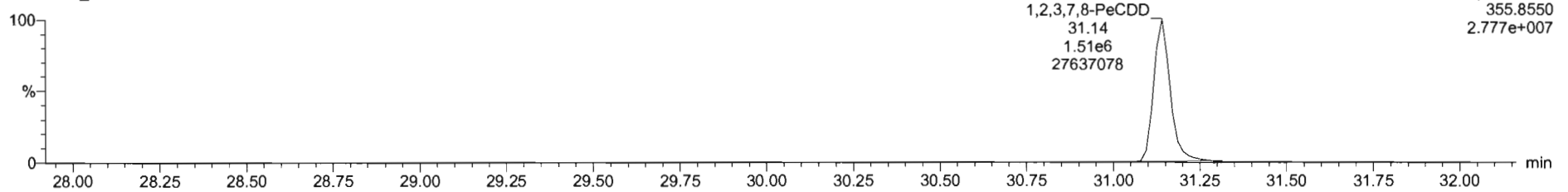
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1,2,3,7,8-PeCDD

200429R2_5

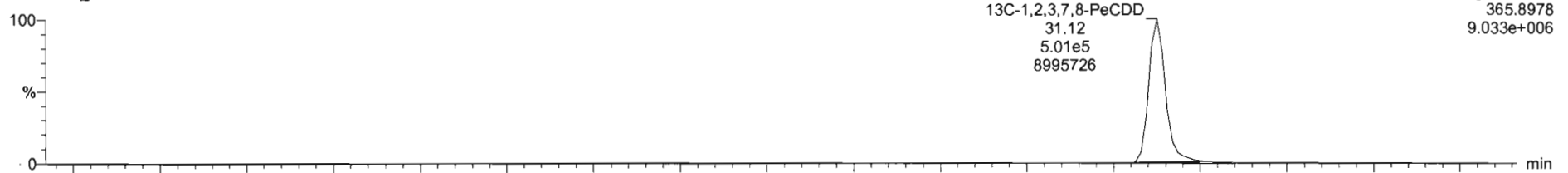


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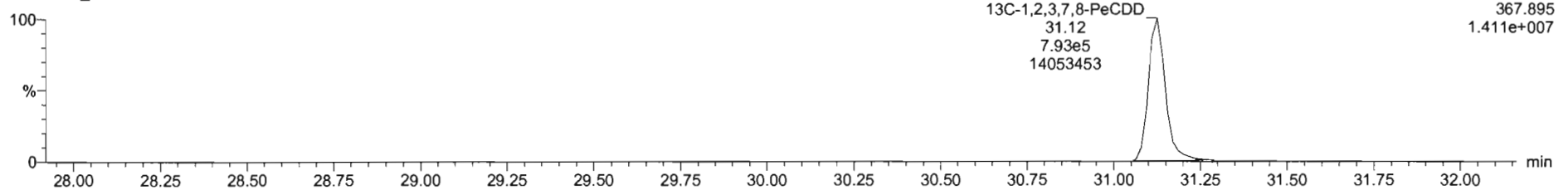


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200429R2_5



200429R2_5



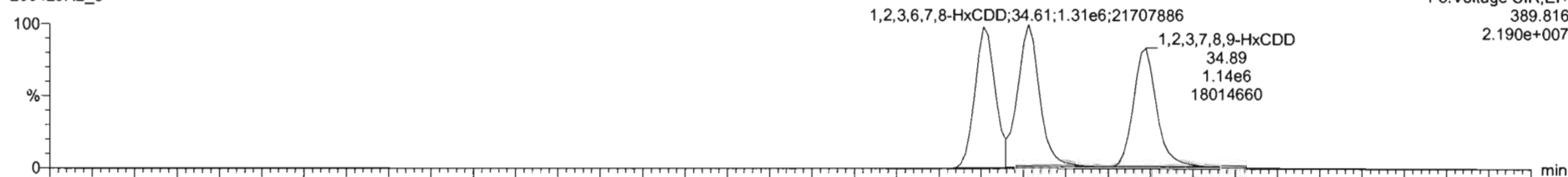
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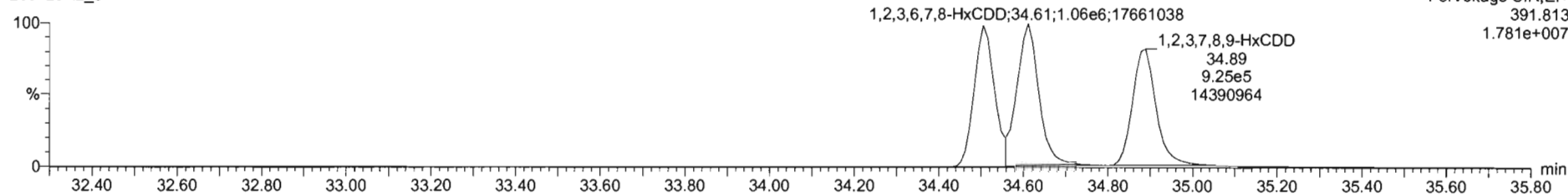
1,2,3,4,7,8-HxCDD

200429R2_5



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2.190e+007

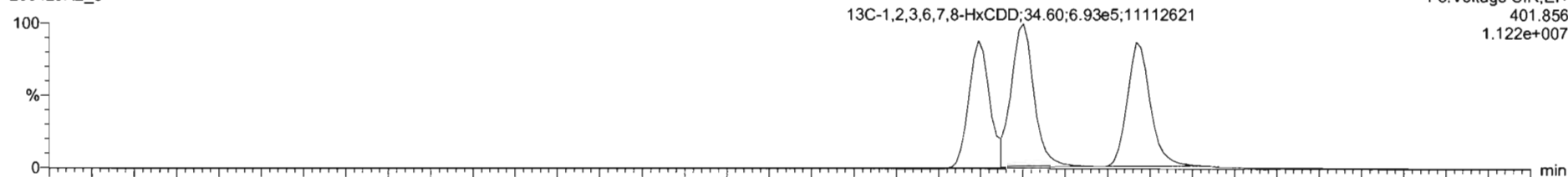
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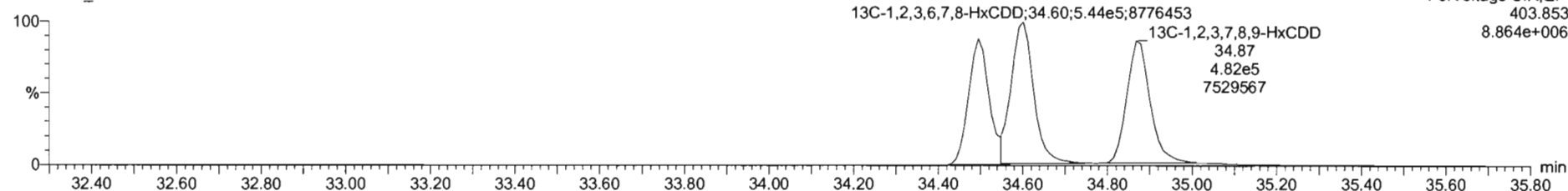
13C-1,2,3,4,7,8-HxCDD

200429R2_5



F3:Voltage SIR,EI+
401.856
1.122e+007

200429R2_5



F3:Voltage SIR,EI+
403.853
8.864e+006

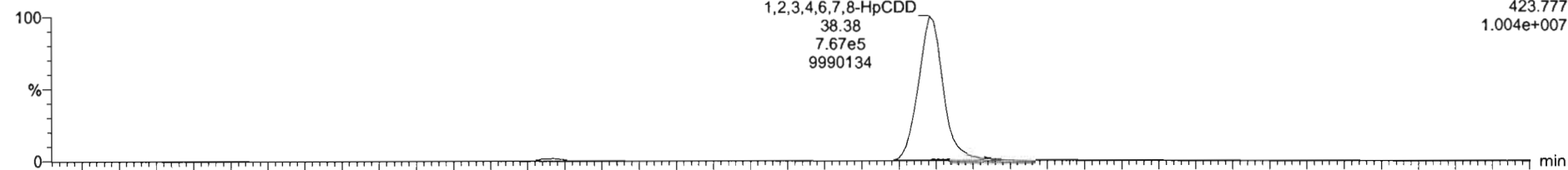
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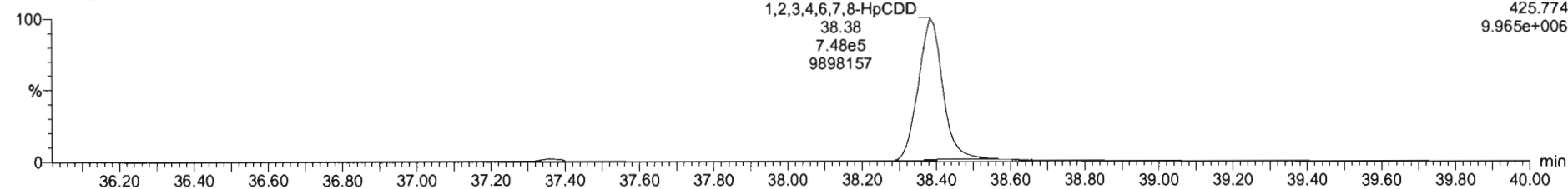
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1,2,3,4,6,7,8-HpCDD

200429R2_5

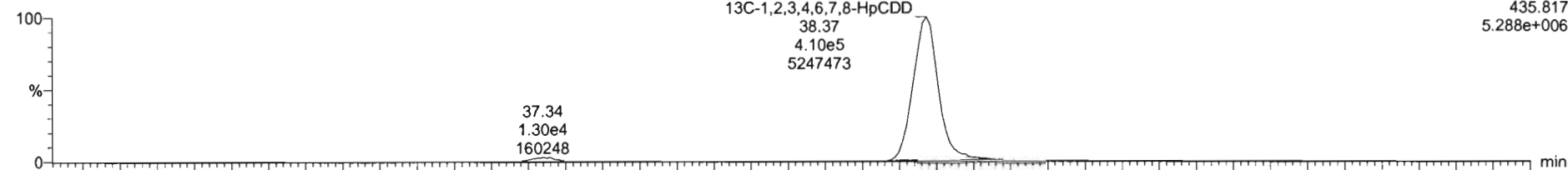


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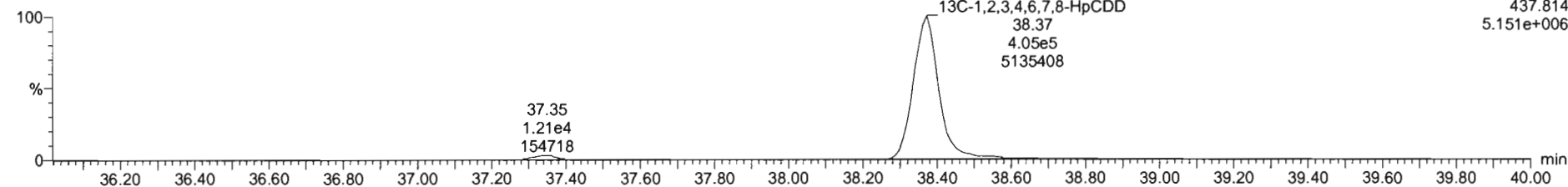


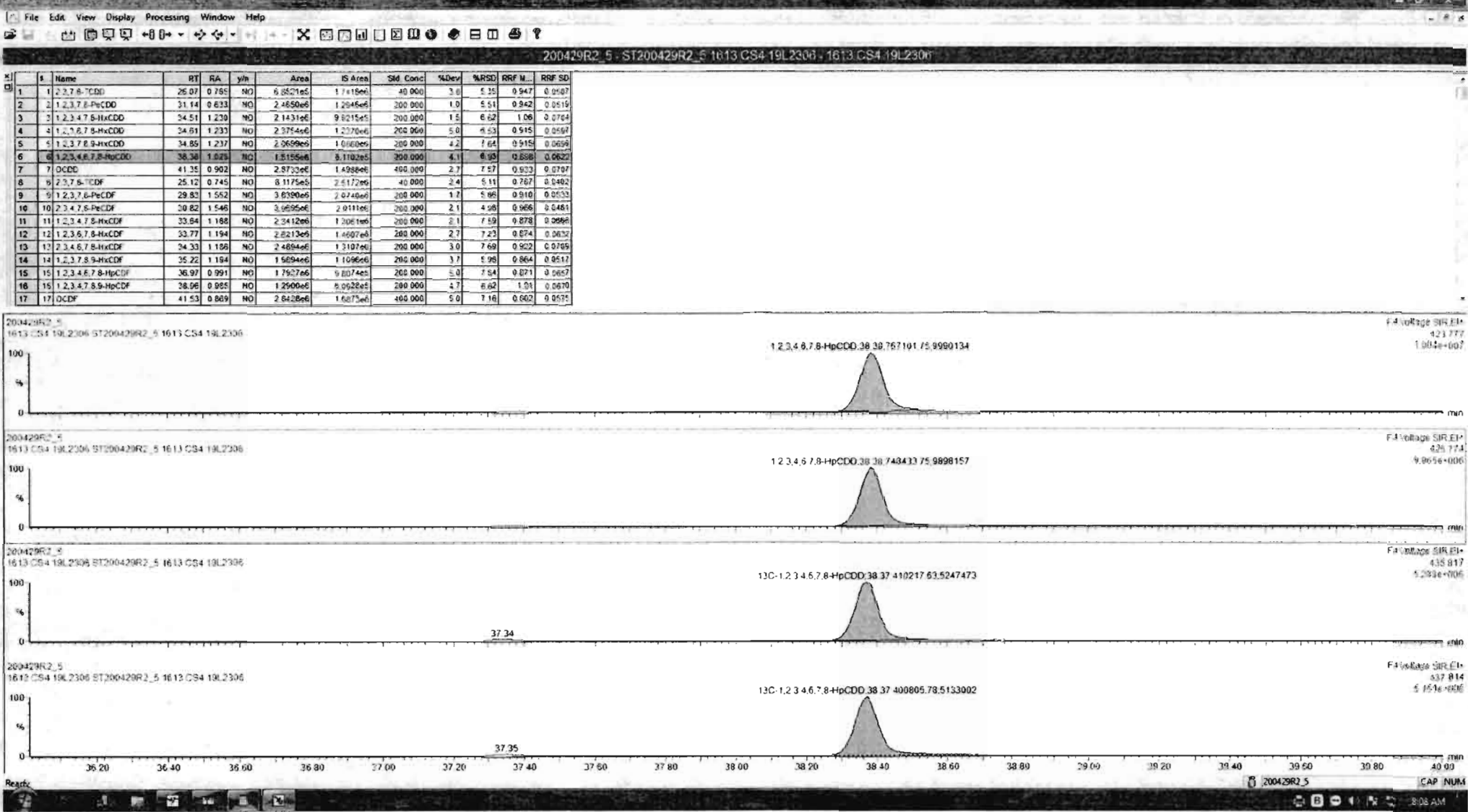
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200429R2_5



200429R2_5

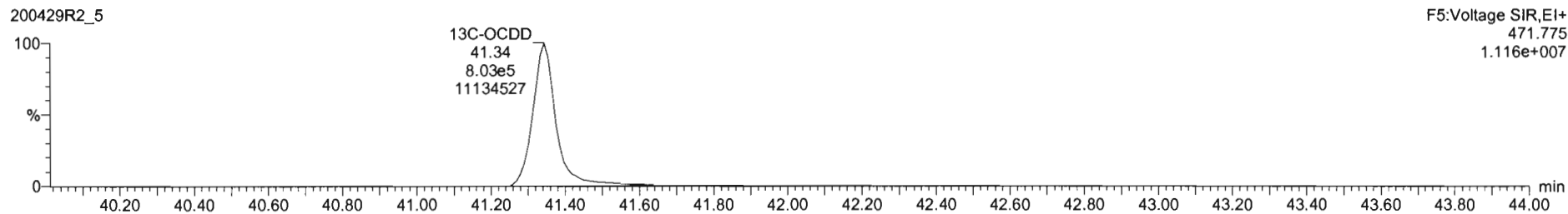
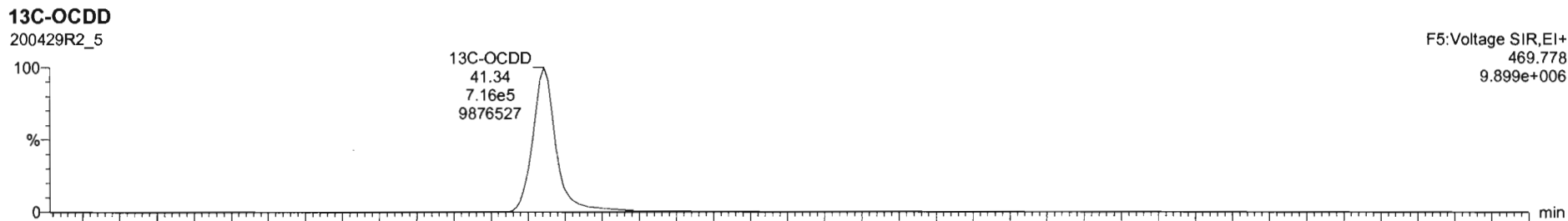
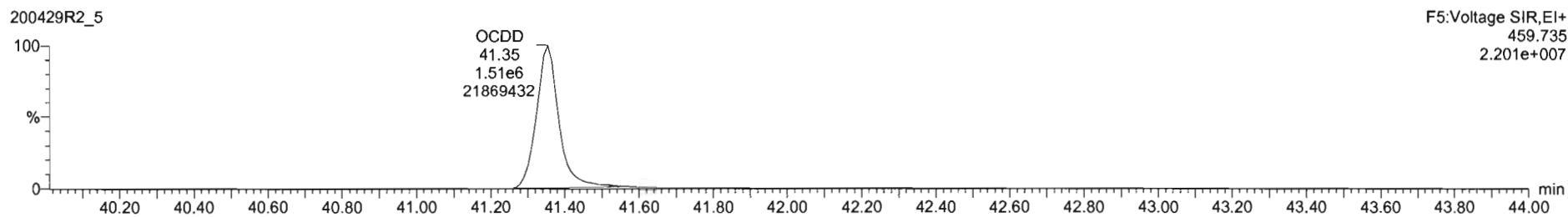
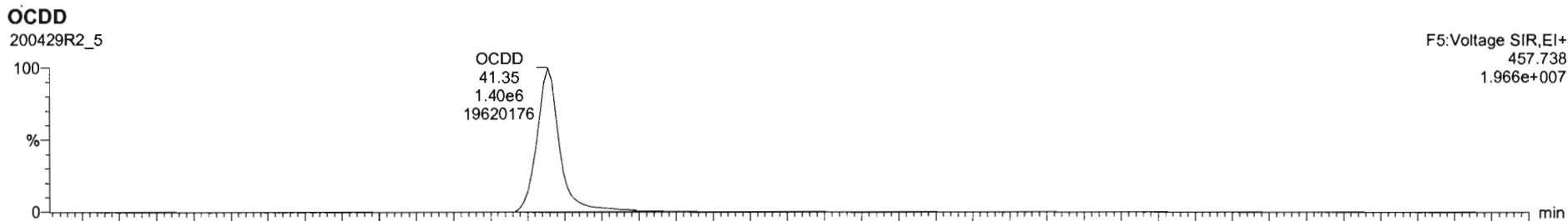




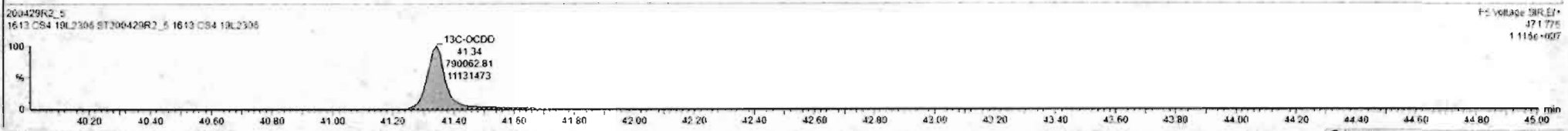
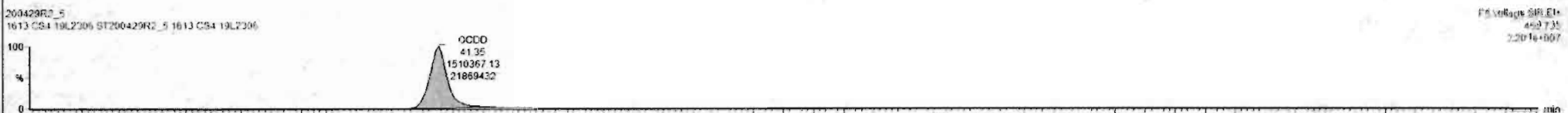
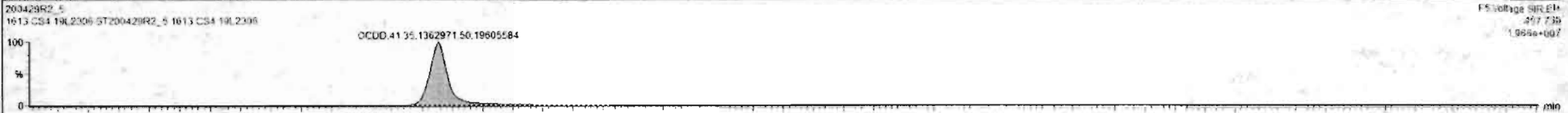
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#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	2,3,7,8-TCDD	28.07	0.785	NO	6.6521e5	1.7418e6	40.000	2.0	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.633	NO	2.4650e5	1.2946e6	200.000	1.0	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	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	0.933	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	0.985	NO	1.2500e5	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



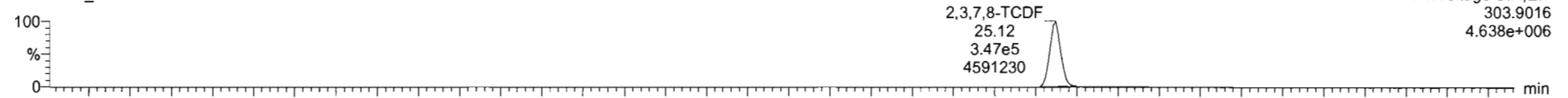
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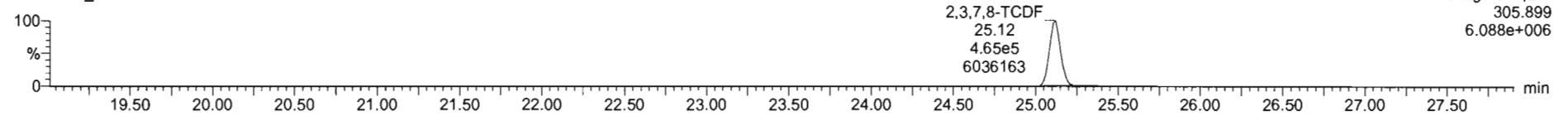
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2,3,7,8-TCDF

200429R2_5

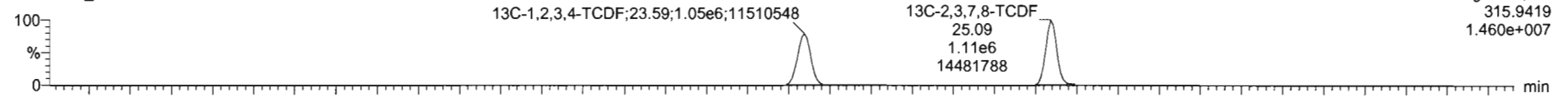


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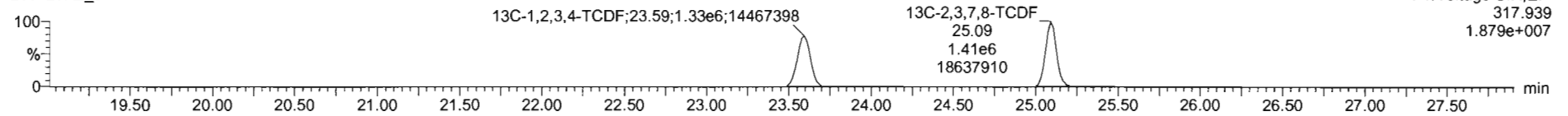


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200429R2_5

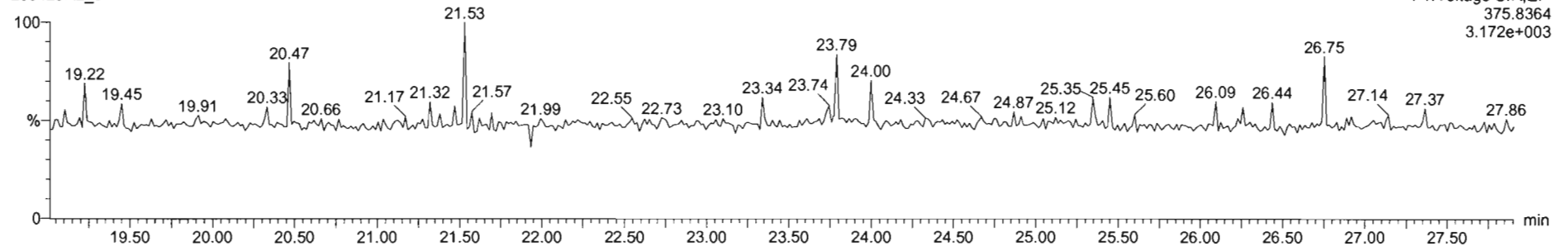


200429R2_5



DPE1

200429R2_5



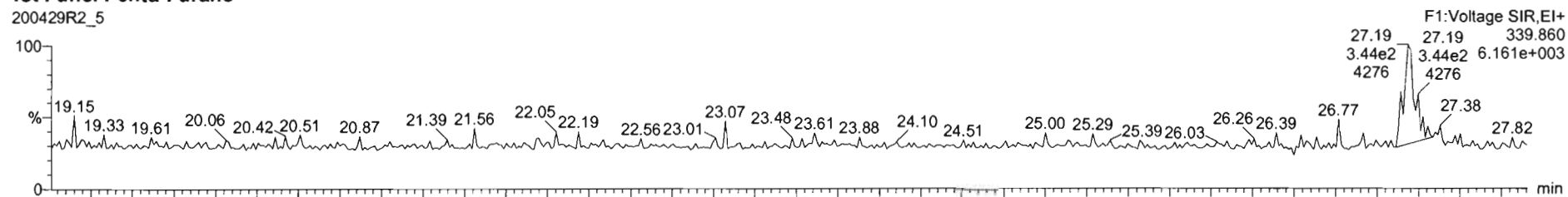
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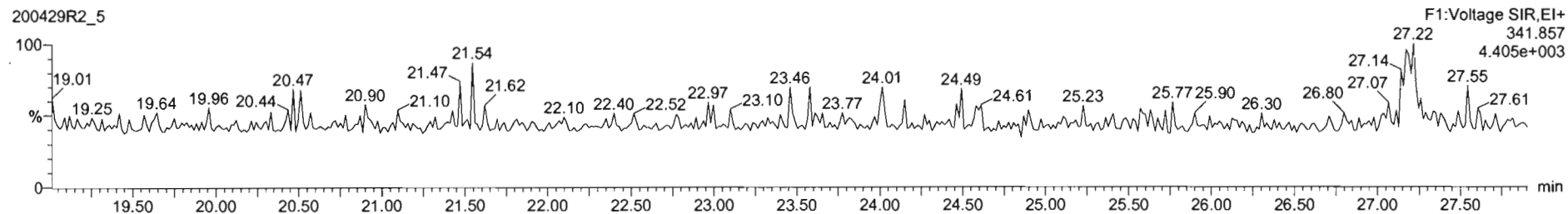
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1st Func. Penta-Furans

200429R2_5

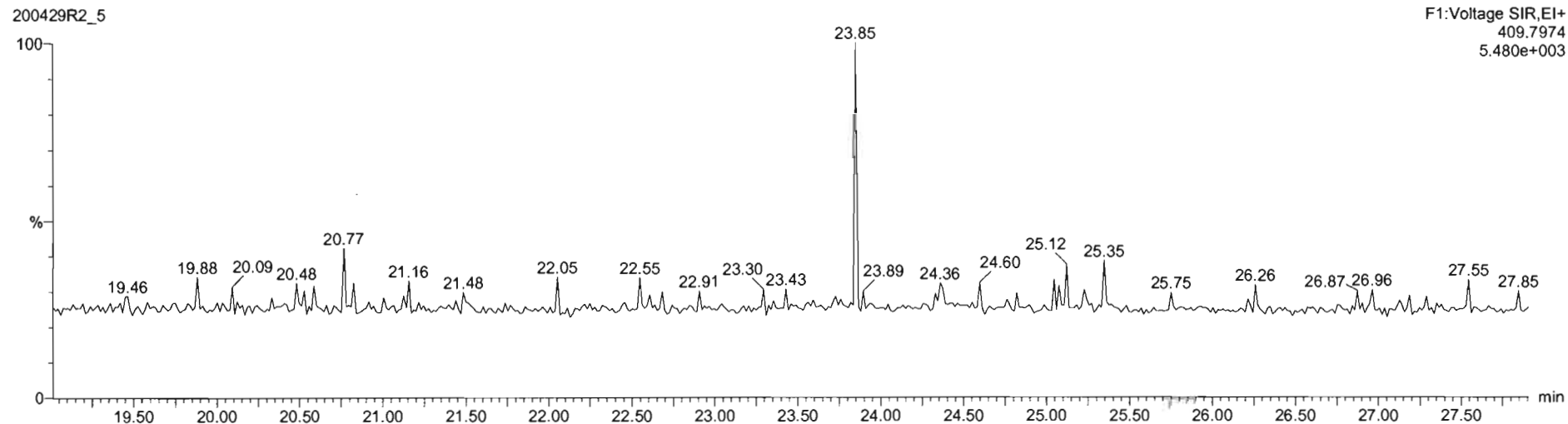


200429R2_5



DPE6

200429R2_5



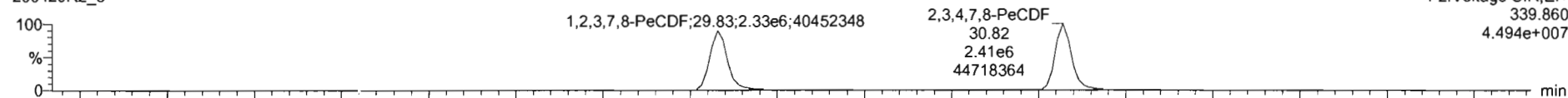
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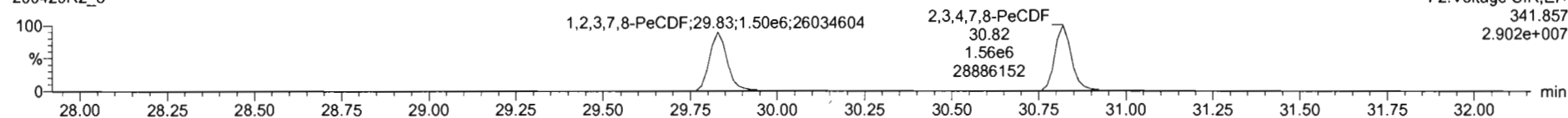
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1,2,3,7,8-PeCDF

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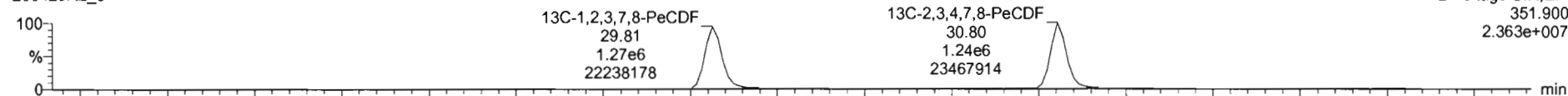


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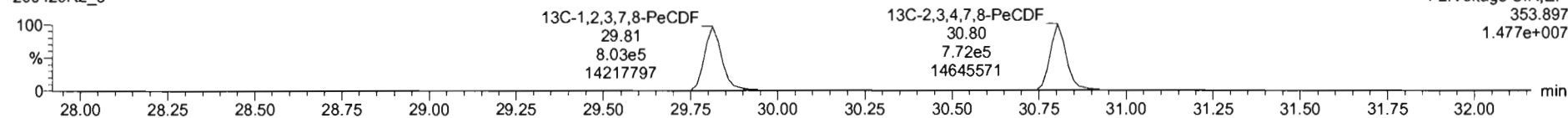


13C-1,2,3,7,8-PeCDF

200429R2_5

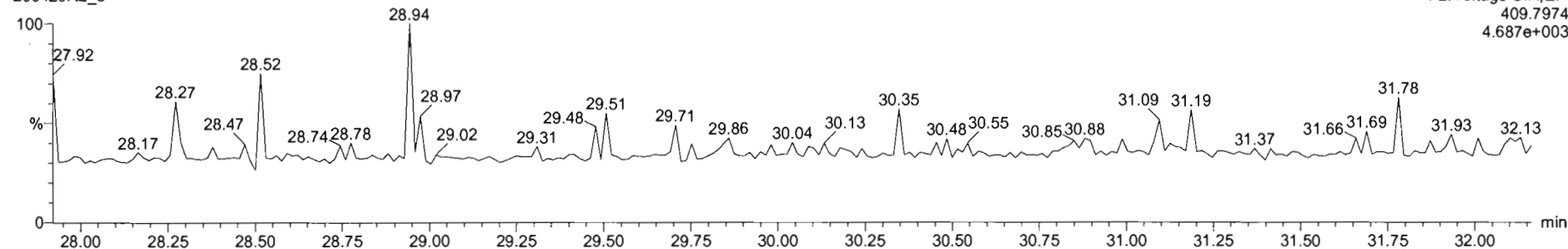


200429R2_5



DPE2

200429R2_5



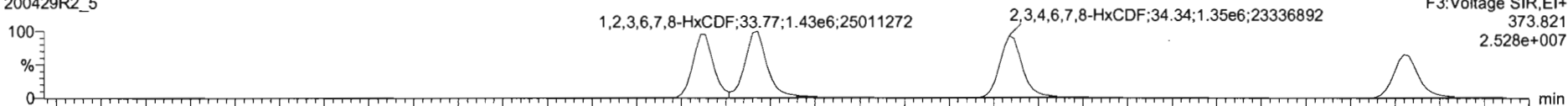
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

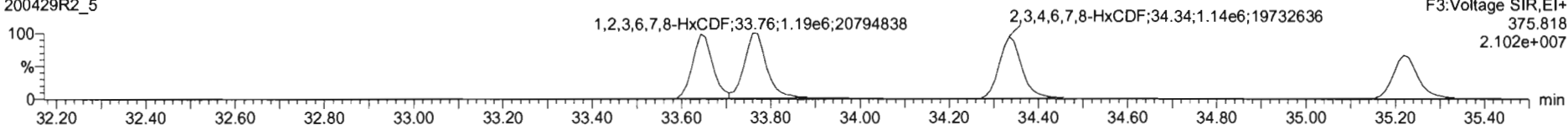
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1,2,3,4,7,8-HxCDF

200429R2_5

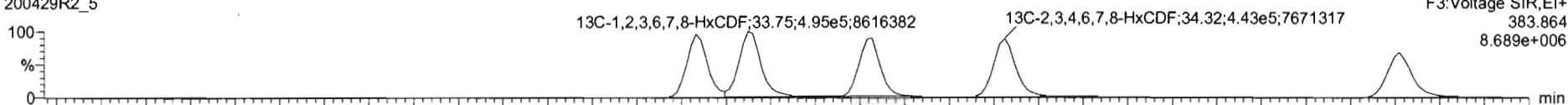


200429R2_5

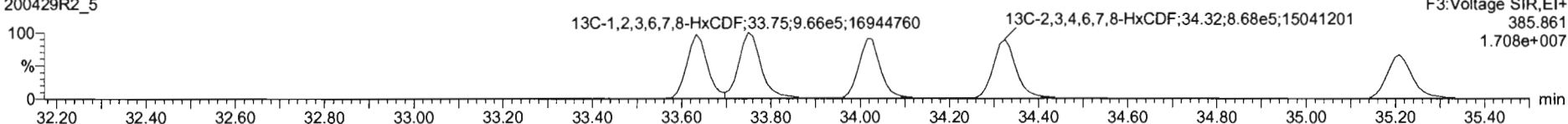


13C-1,2,3,4,7,8-HxCDF

200429R2_5

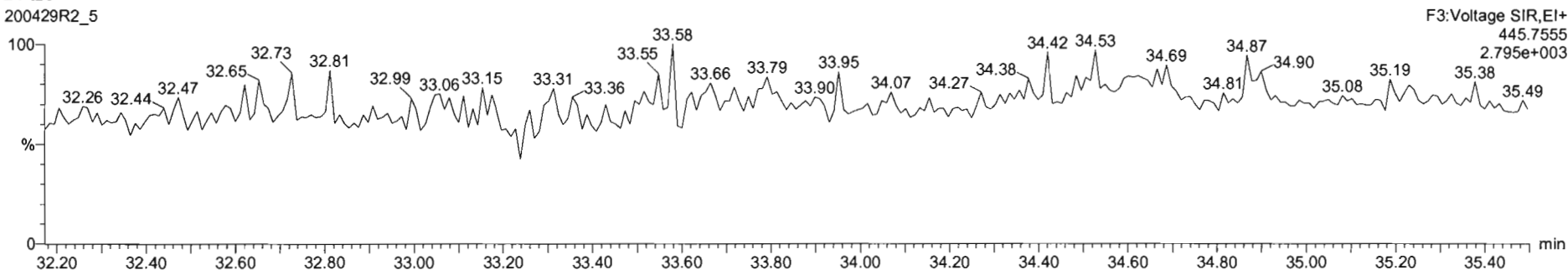


200429R2_5

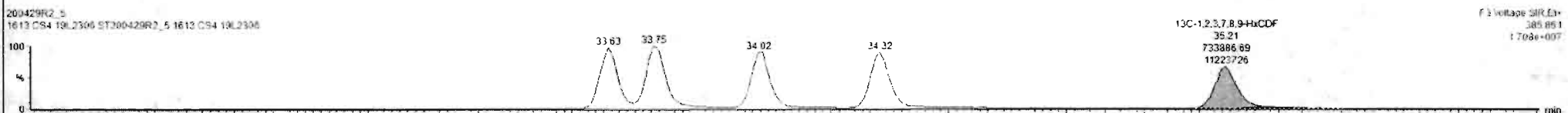
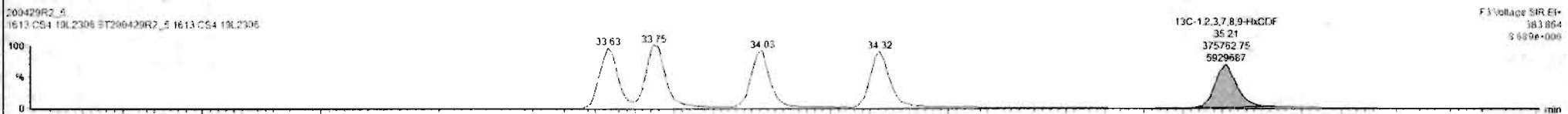
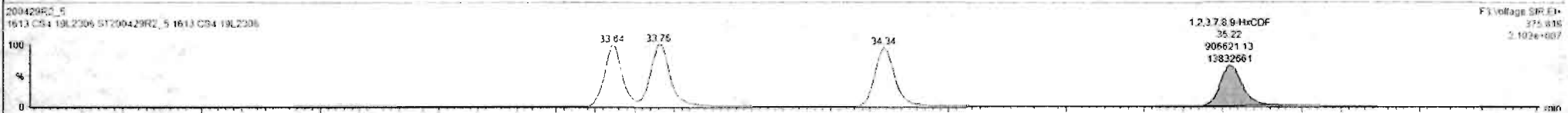


DPE3

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	1.2370e6	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	0.0707
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	2.3412e6	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	5.38	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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200429R2_5 CAP NUM

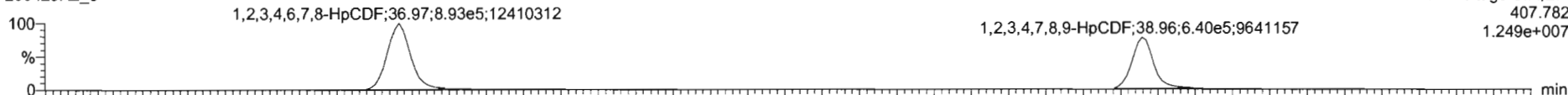
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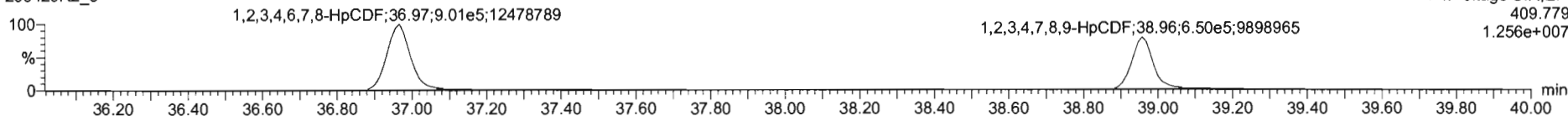
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1,2,3,4,6,7,8-HpCDF

200429R2_5

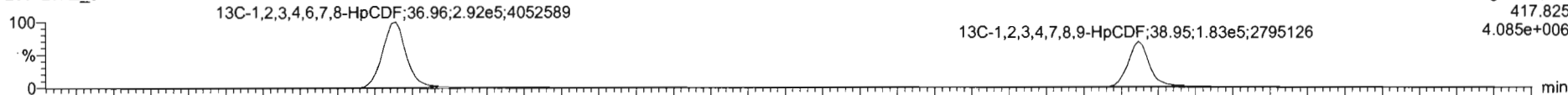


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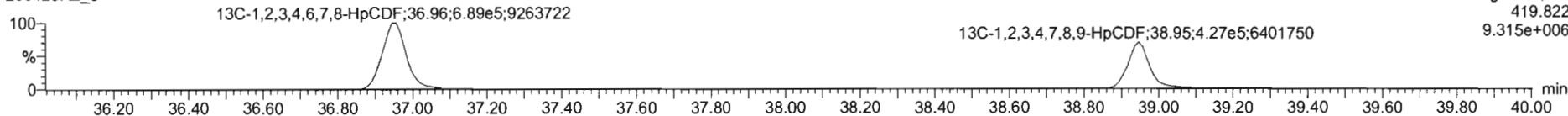


13C-1,2,3,4,6,7,8-HpCDF

200429R2_5

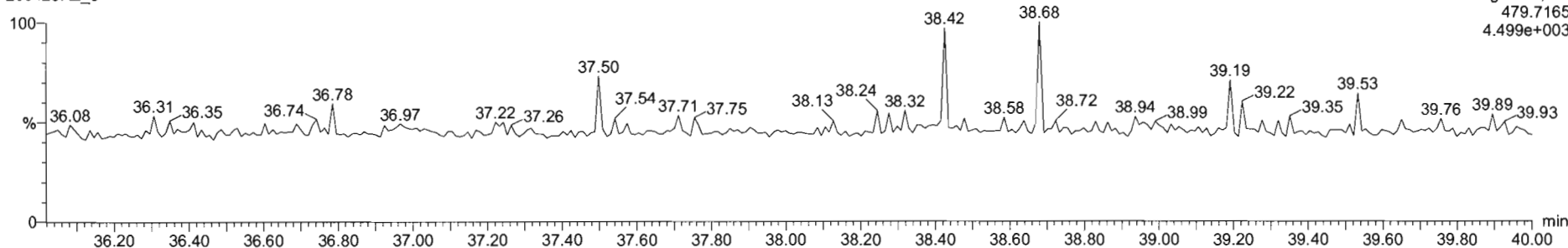


200429R2_5



DPE4

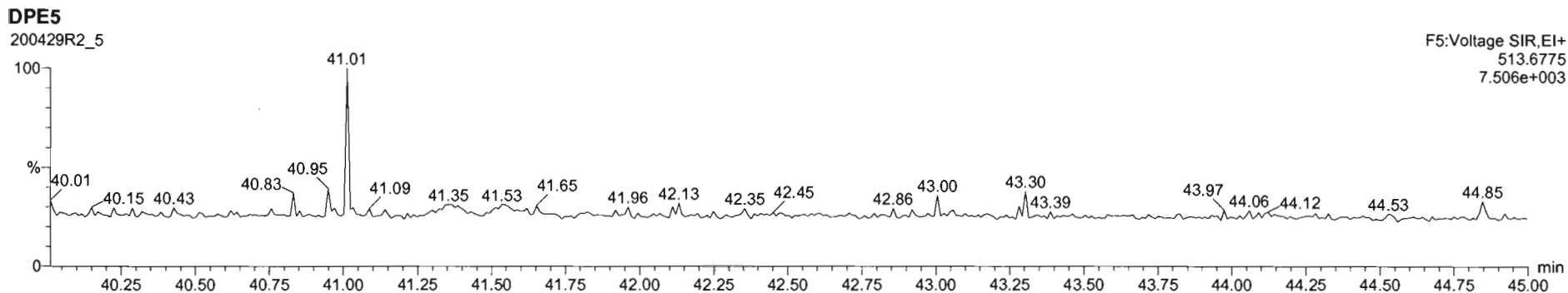
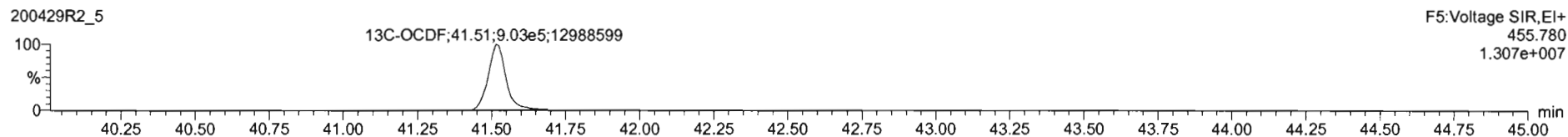
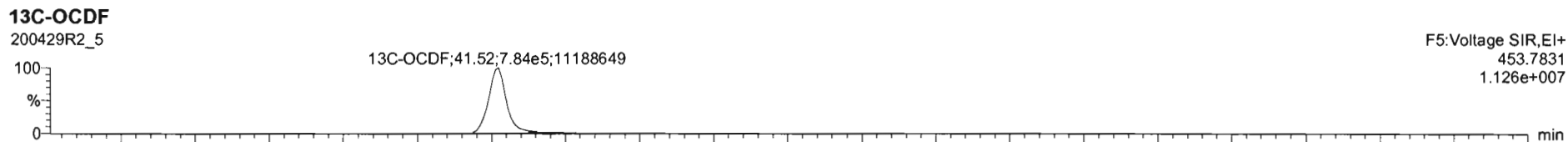
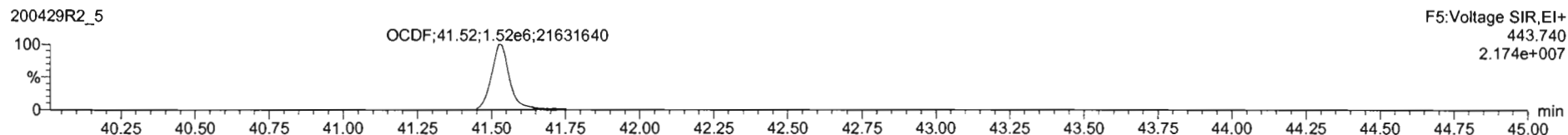
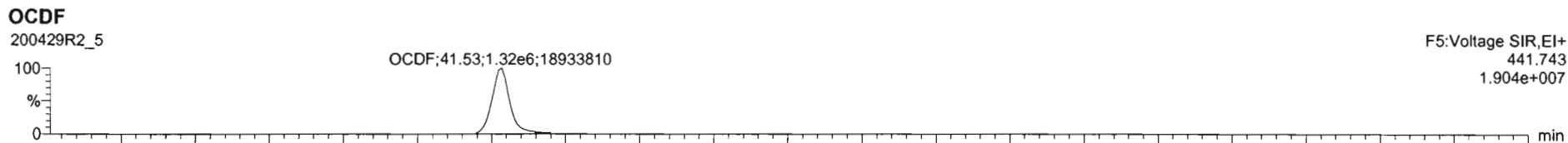
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Name: 200429R2_5, Date: 29-Apr-2020, Time: 16:35:58, ID: ST200429R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

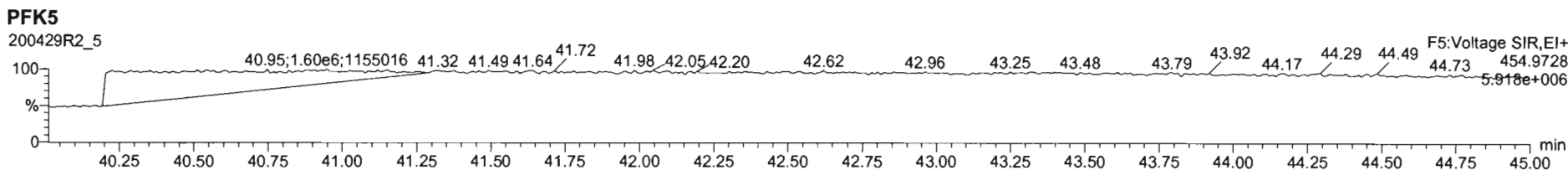
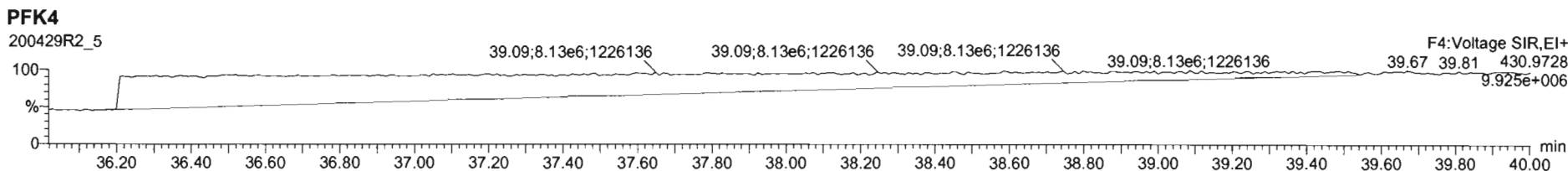
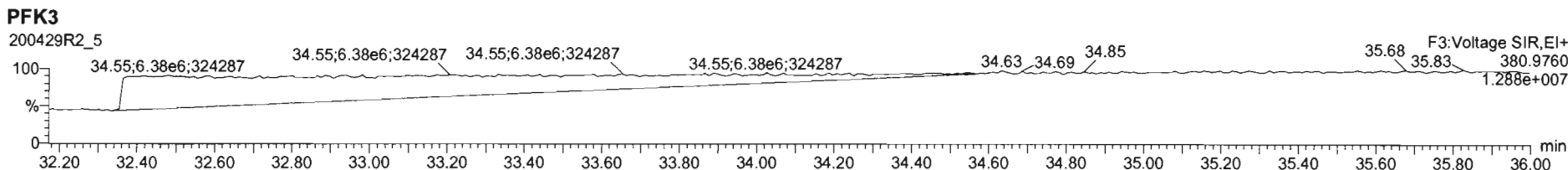
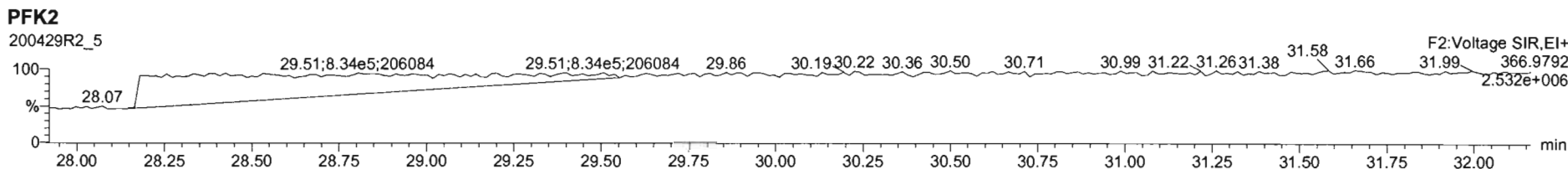
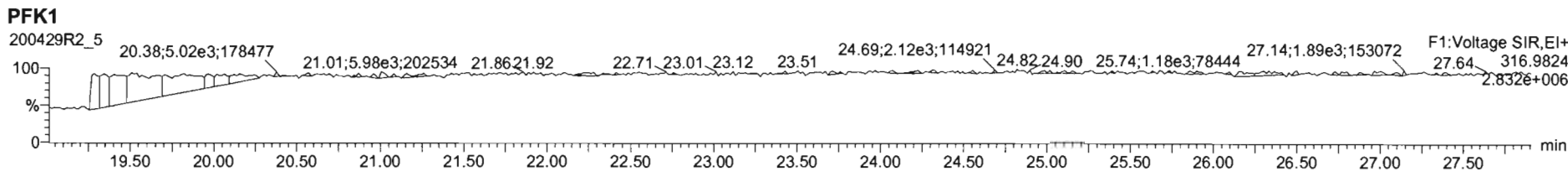


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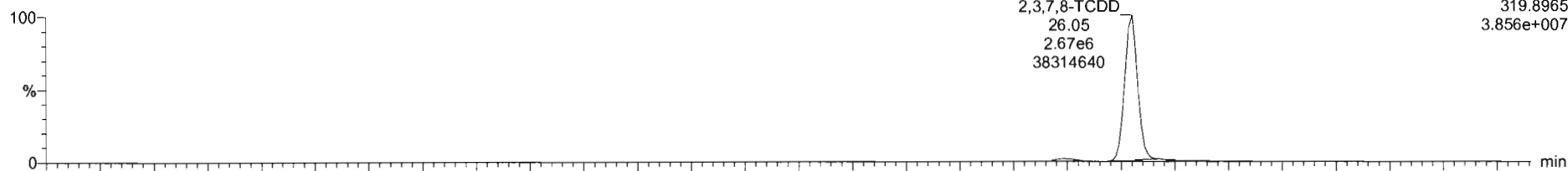
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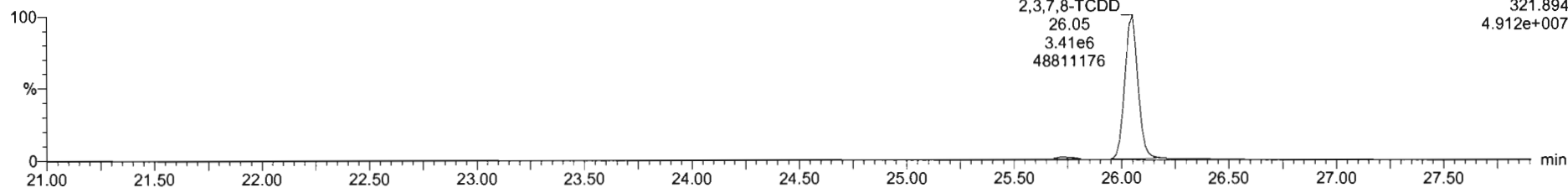
2,3,7,8-TCDD

200429R2_6



F1:Voltage SIR,EI+
319.8965
3.856e+007

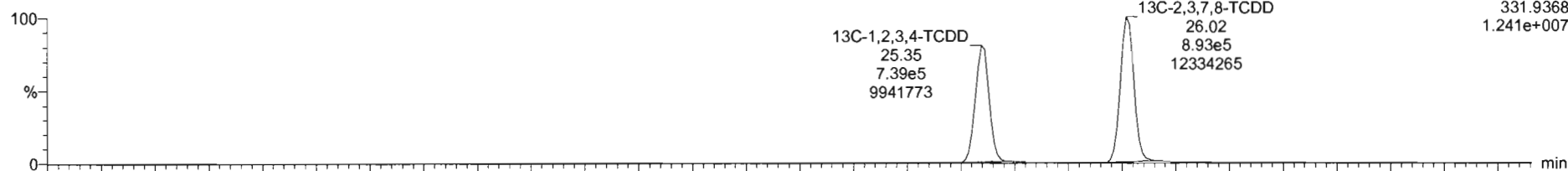
200429R2_6



F1:Voltage SIR,EI+
321.894
4.912e+007

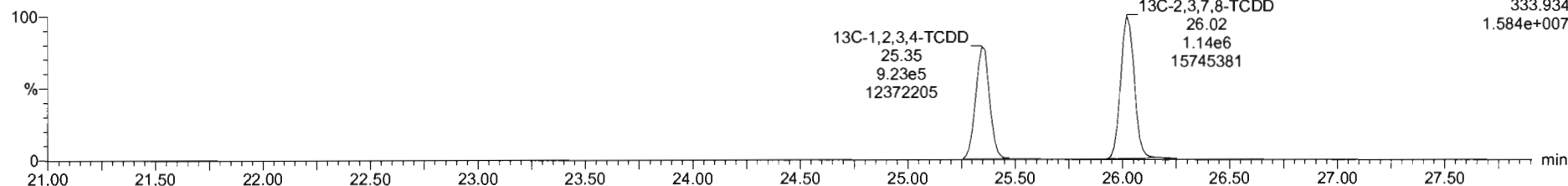
13C-2,3,7,8-TCDD

200429R2_6



F1:Voltage SIR,EI+
331.9368
1.241e+007

200429R2_6



F1:Voltage SIR,EI+
333.934
1.584e+007

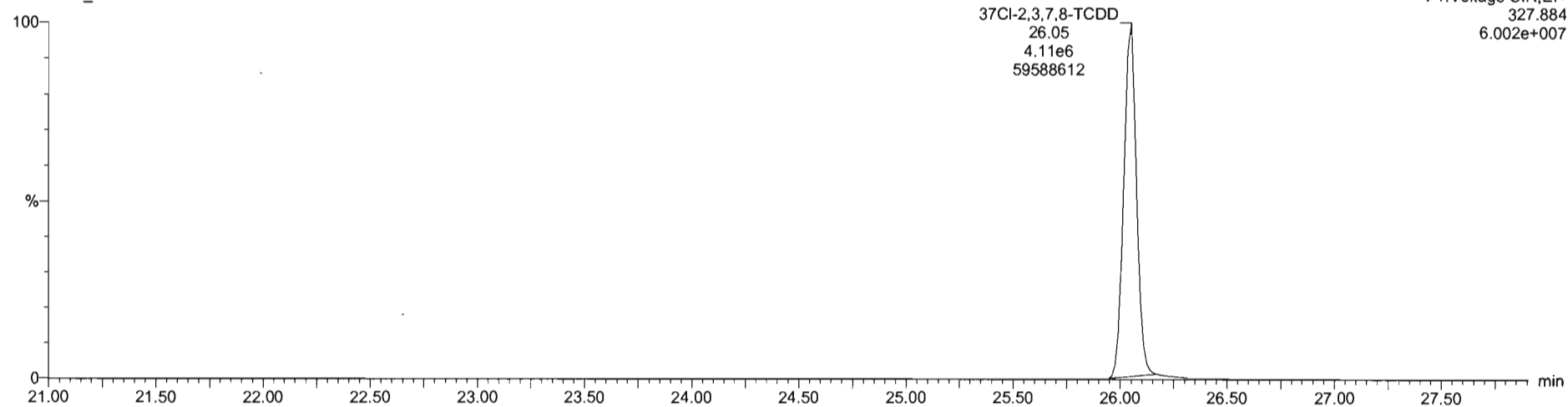
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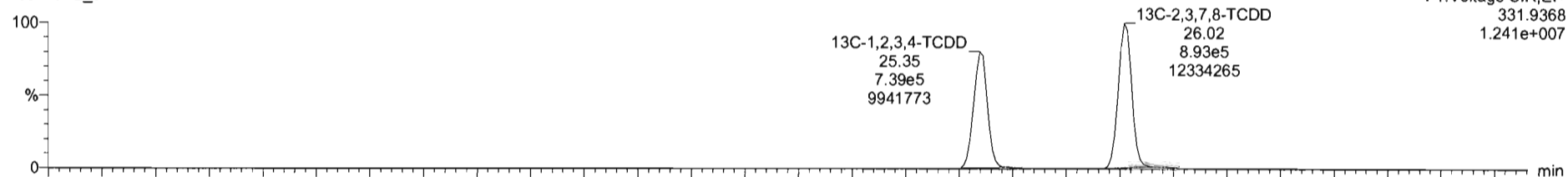
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200429R2_6

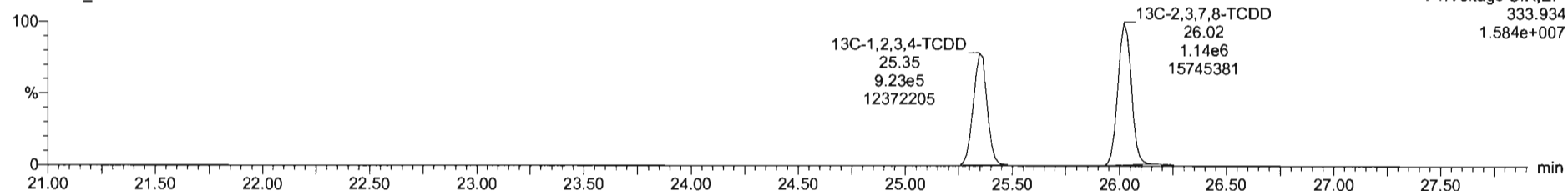


13C-1,2,3,4-TCDD

200429R2_6



200429R2_6



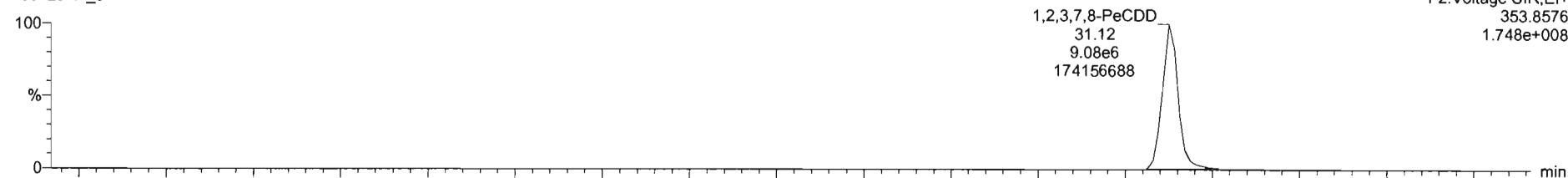
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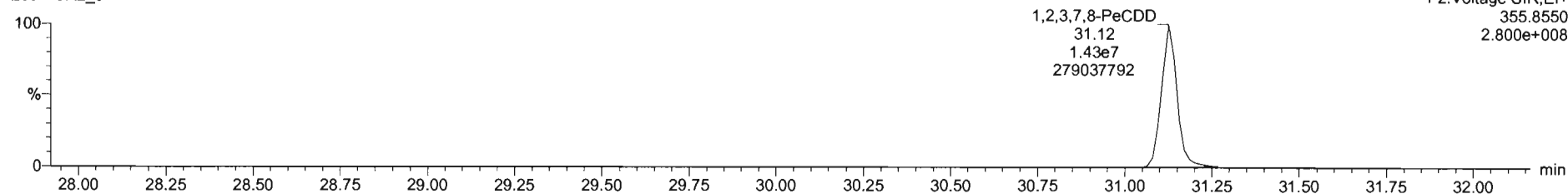
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1,2,3,7,8-PeCDD

200429R2_6

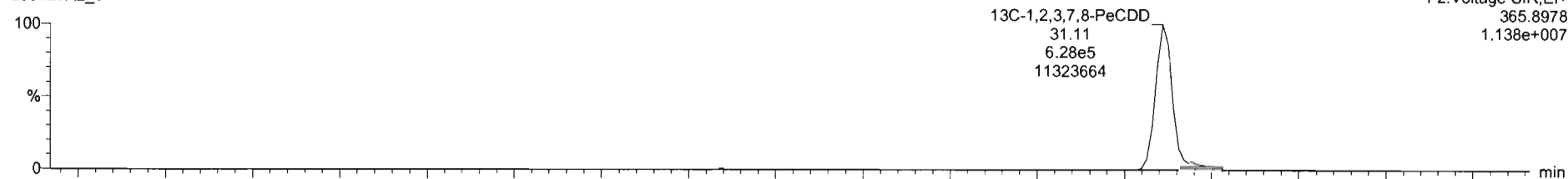


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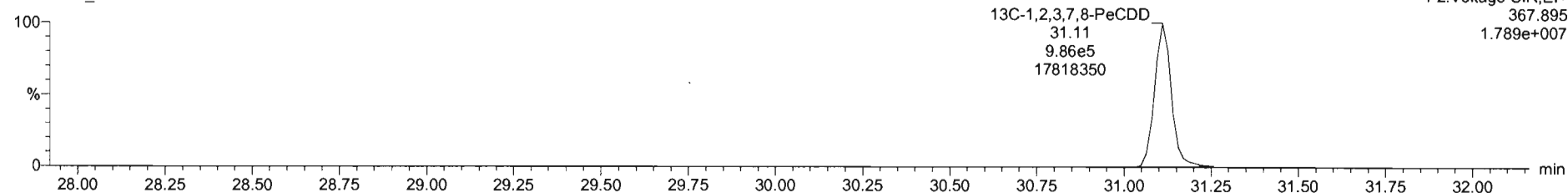


13C-1,2,3,7,8-PeCDD

200429R2_6



200429R2_6



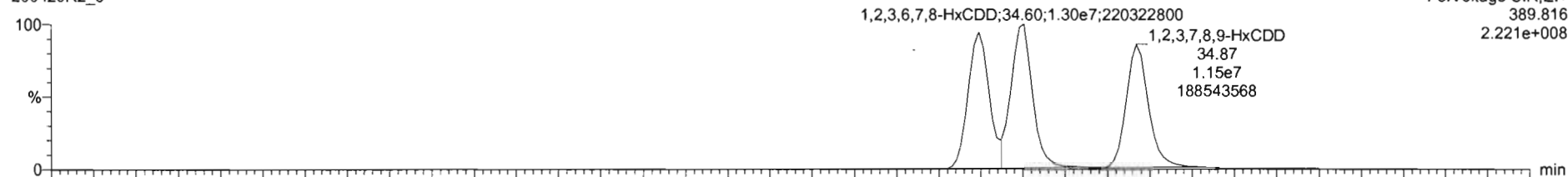
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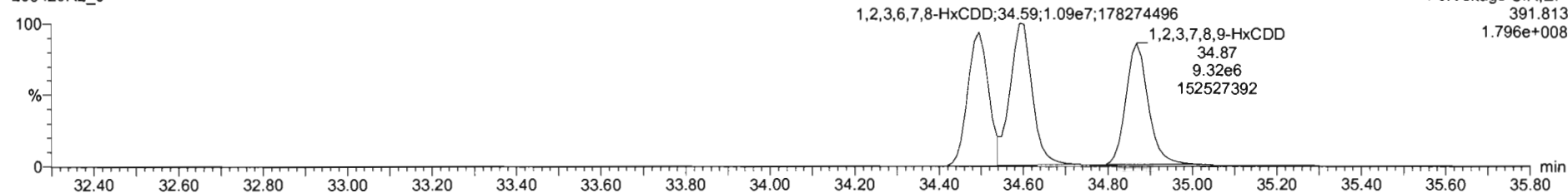
1,2,3,4,7,8-HxCDD

200429R2_6



F3:Voltage SIR,EI+
389.816
2.221e+008

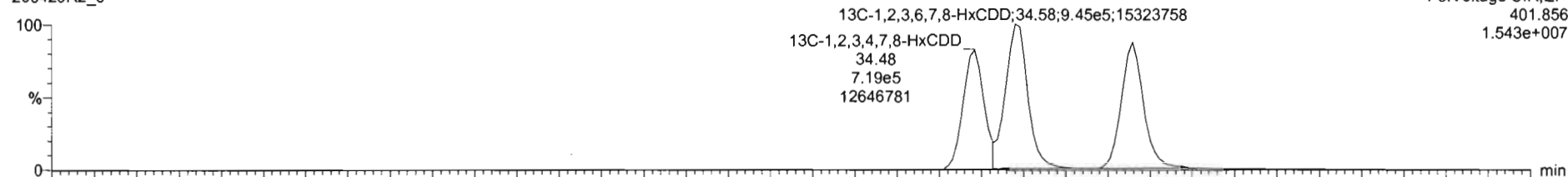
200429R2_6



F3:Voltage SIR,EI+
391.813
1.796e+008

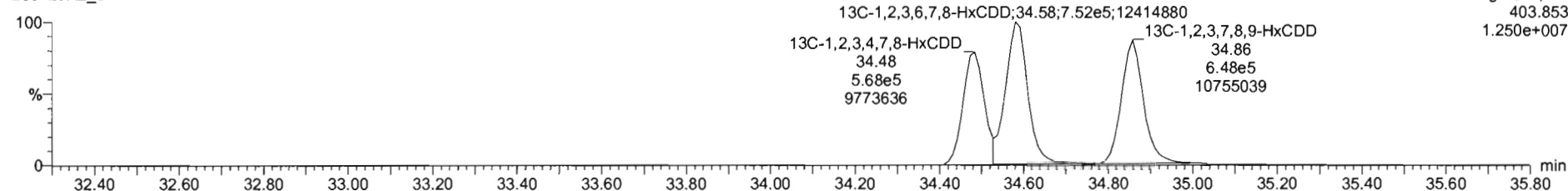
13C-1,2,3,4,7,8-HxCDD

200429R2_6



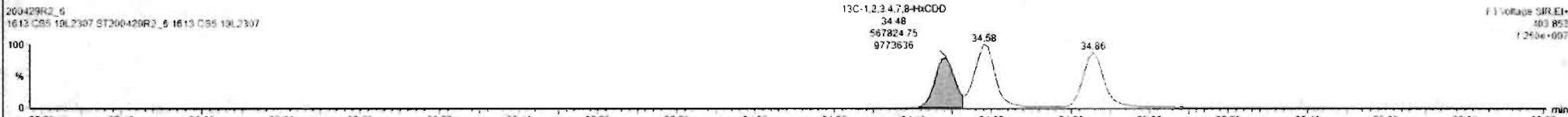
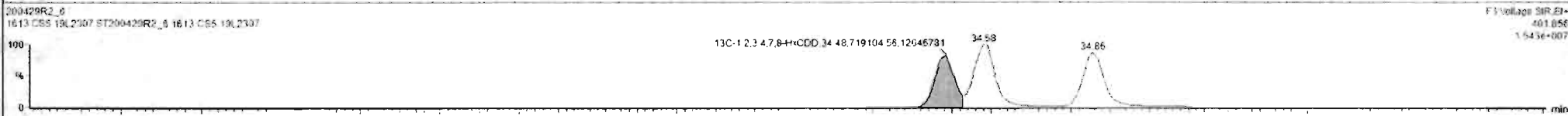
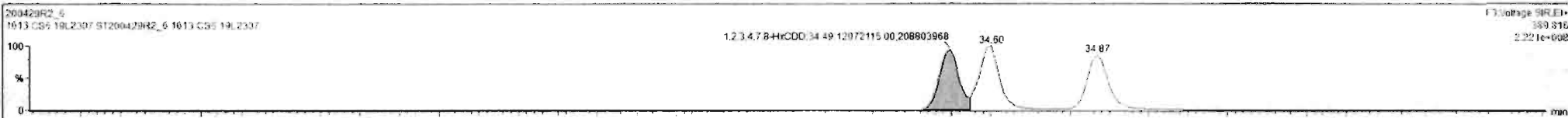
F3:Voltage SIR,EI+
401.856
1.543e+007

200429R2_6



F3:Voltage SIR,EI+
403.853
1.250e+007

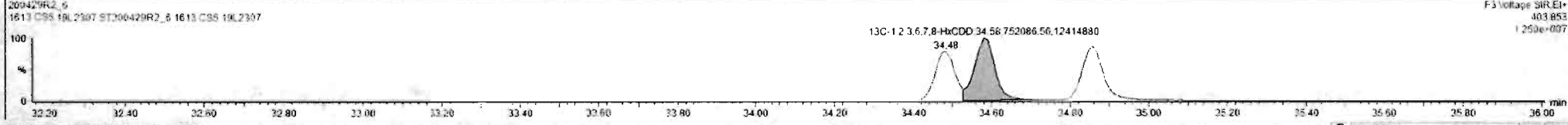
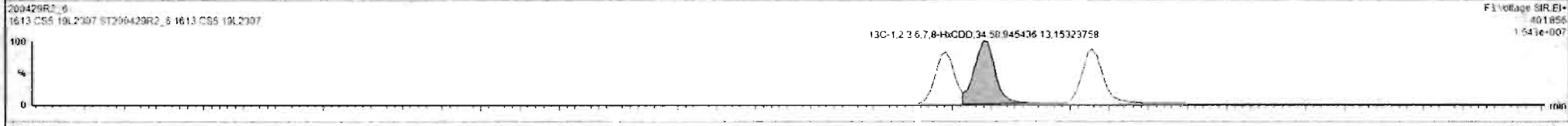
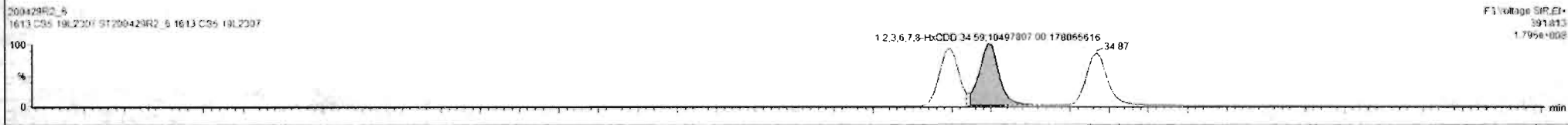
#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.784	NO	6.0624e6	2.0310e6	300.000	5.4	5.35	0.947	0.0567
2	1,2,3,7,8-PeCDD	31.13	0.634	NO	2.3414e7	1.6142e6	1500.000	2.6	5.51	0.942	0.0516
3	1,2,3,4,7,8-HxCDD	34.48	1.228	NO	2.1905e7	1.2269e6	1000.000	6.6	6.62	1.08	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	7.69	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	36.95	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	2.3638e7	2.6295e6	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
1	1,2,3,7,8-TCDD	26.95	0.764	NO	6.0624e6	2.0310e6	300.000	5.4	5.35	0.947	0.9507
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	2.3469e7	1.6075e6	1500.000	0.8	6.53	0.915	0.0592
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	0.0690
6	1,2,3,4,6,7,8-HpCDD	38.37	1.019	NO	1.6010e7	1.1360e6	1500.000	5.6	6.93	0.890	0.0622
7	OCDD	41.34	0.887	NO	3.3271e7	2.3135e6	3000.000	4.8	7.57	0.933	0.0707
8	1,2,7,8-TCDF	25.05	0.753	NO	7.1949e6	2.9106e6	300.000	4.7	5.11	0.787	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	0.0533
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	0.0481
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	0.0566
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-HpCDF	34.33	1.190	NO	2.4775e7	1.7418e6	1500.000	2.9	7.69	0.932	0.0709
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	0.0517
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	0.0657
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	0.0575



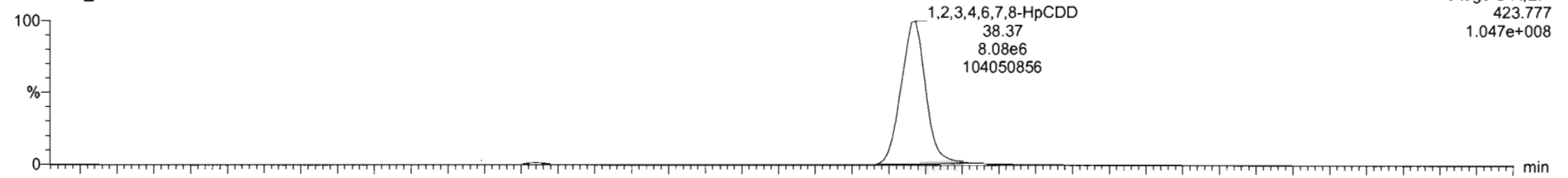
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

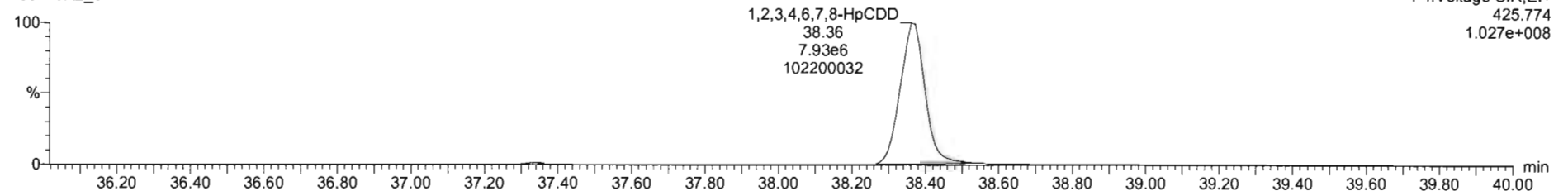
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200429R2_6

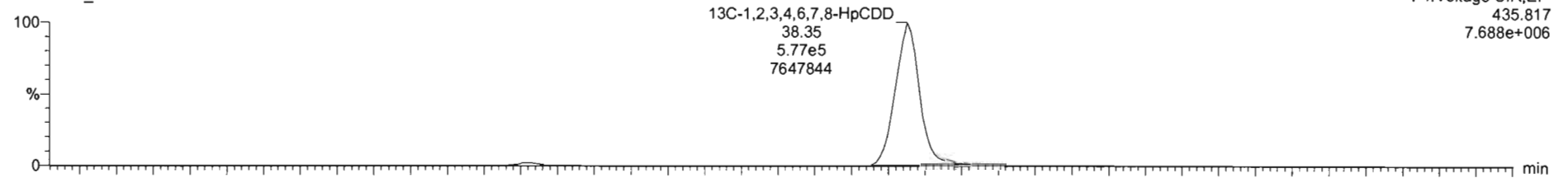


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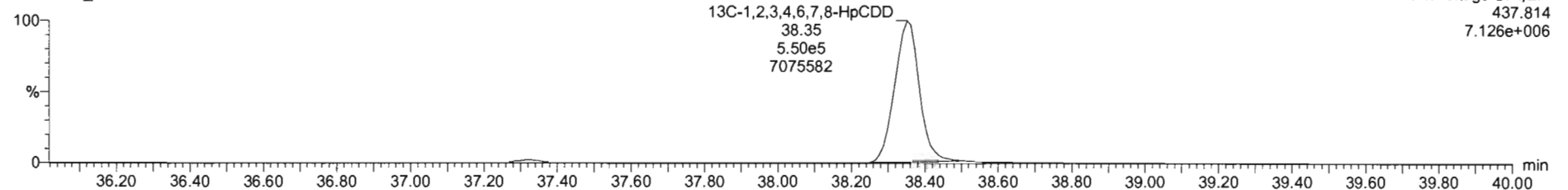


13C-1,2,3,4,6,7,8-HpCDD

200429R2_6



200429R2_6



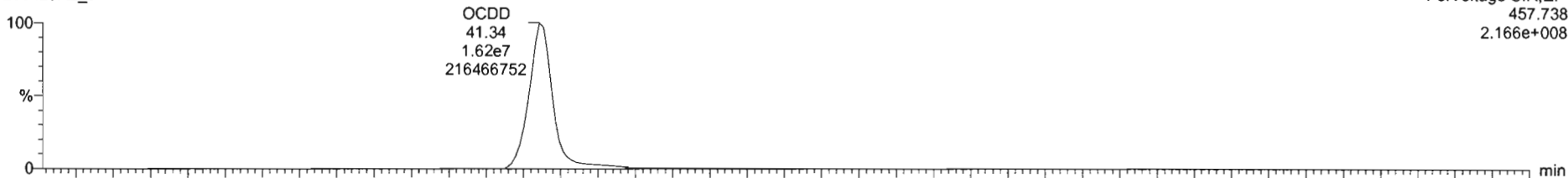
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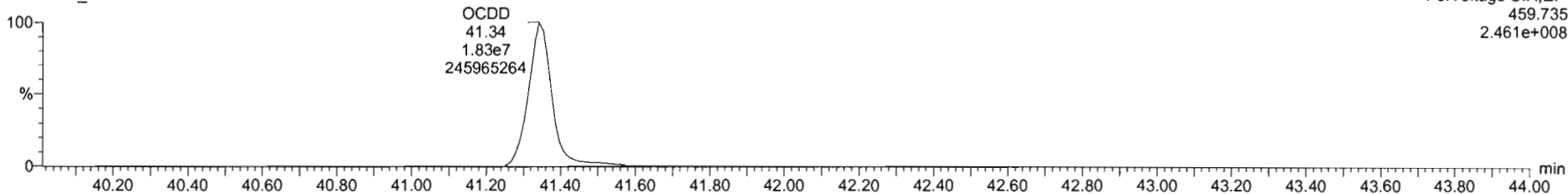
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OCDD

200429R2_6

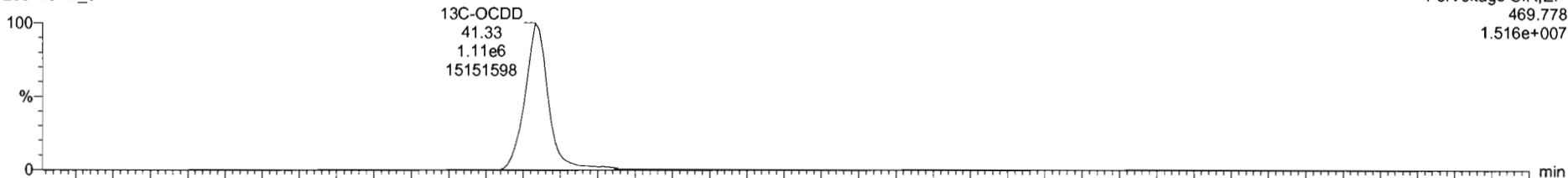


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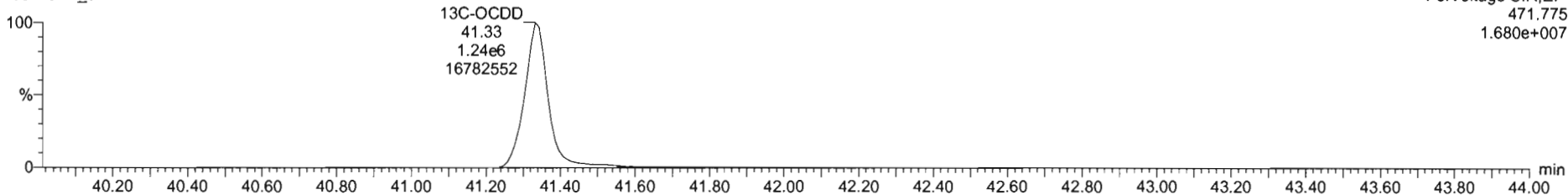


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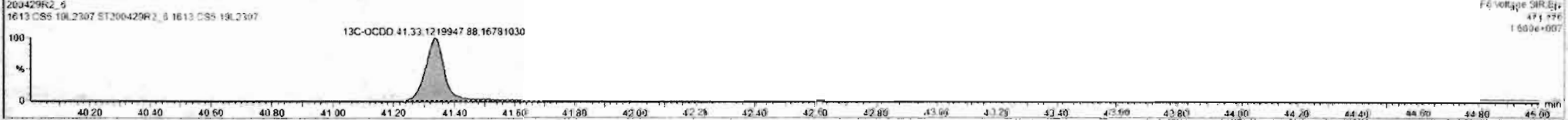
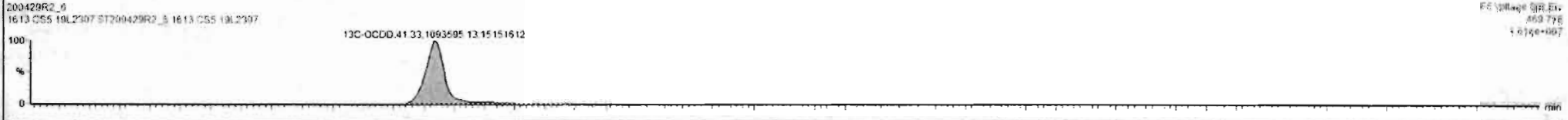
200429R2_6



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	0.0659
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	0.0767
8	0,2,2,7,8-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



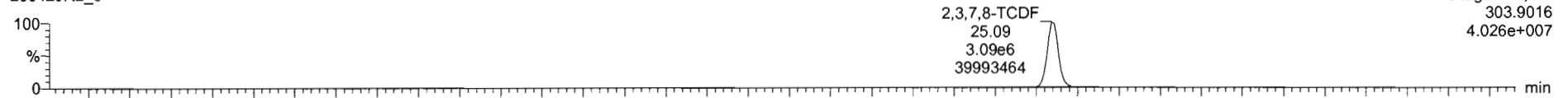
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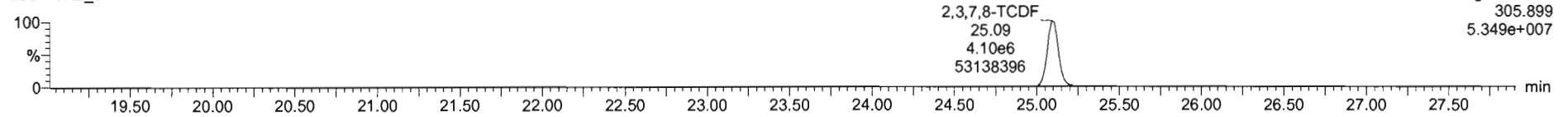
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2,3,7,8-TCDF

200429R2_6

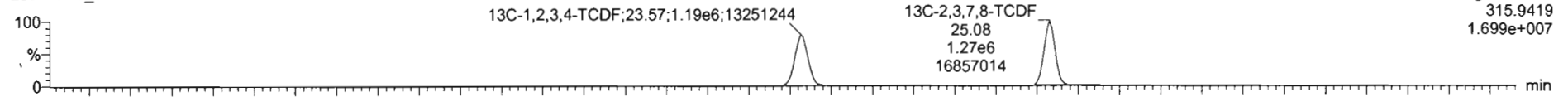


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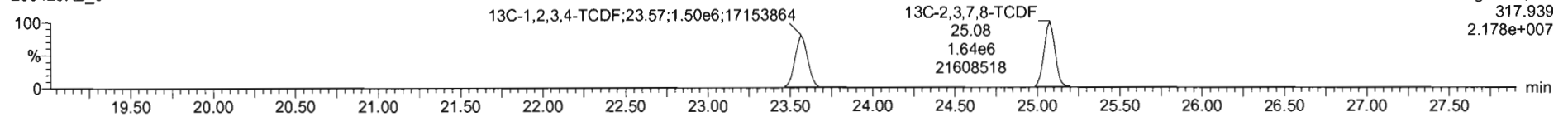


13C-2,3,7,8-TCDF

200429R2_6

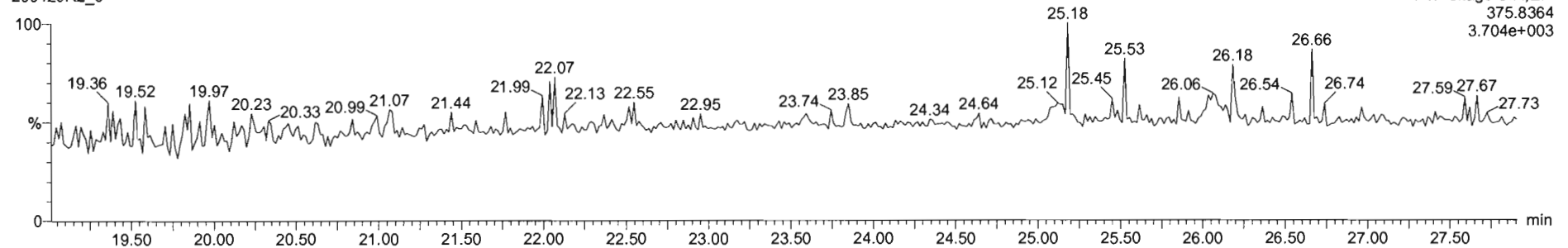


200429R2_6



DPE1

200429R2_6



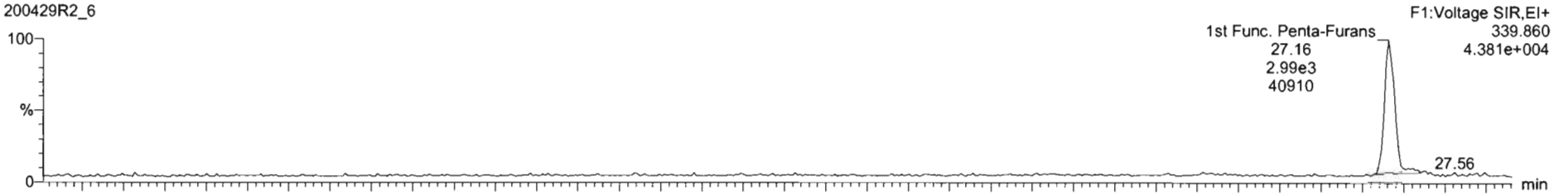
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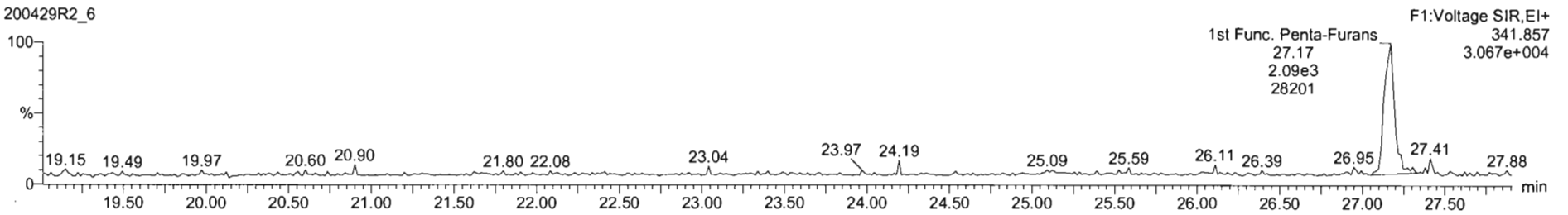
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1st Func. Penta-Furans

200429R2_6

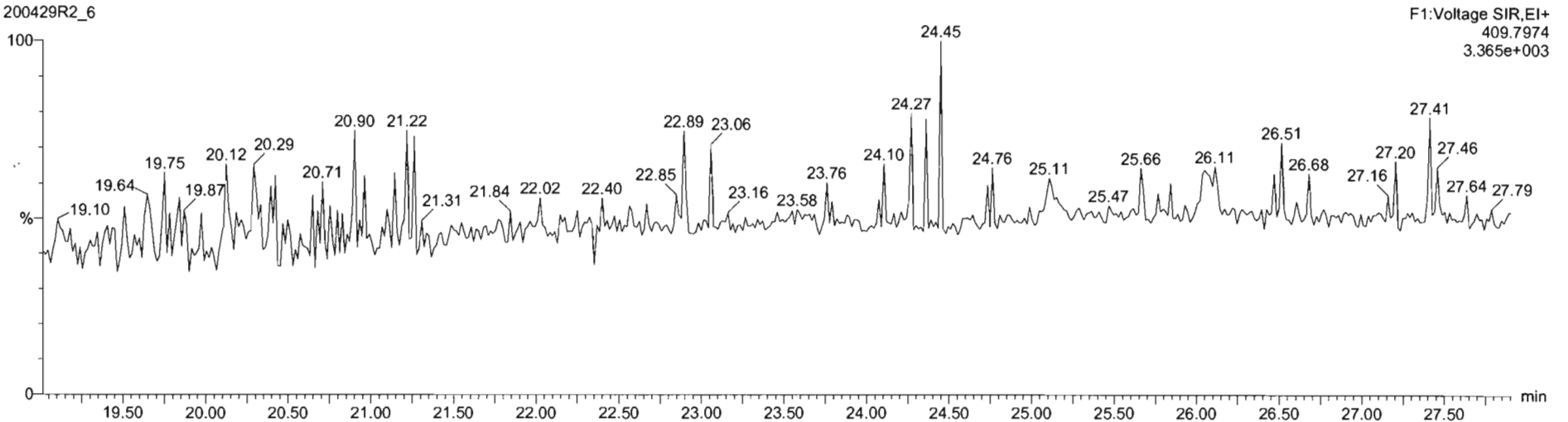


200429R2_6



DPE6

200429R2_6



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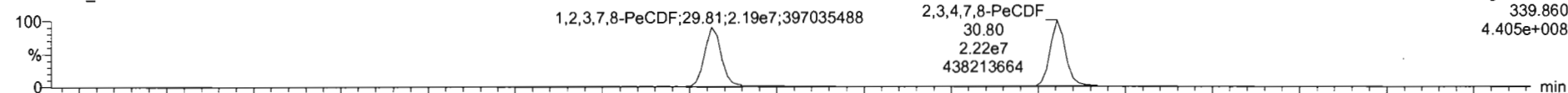
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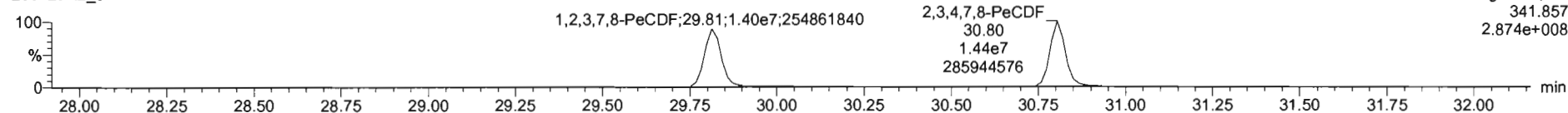
1,2,3,7,8-PeCDF

200429R2_6



F2:Voltage SIR,EI+
339.860
4.405e+008

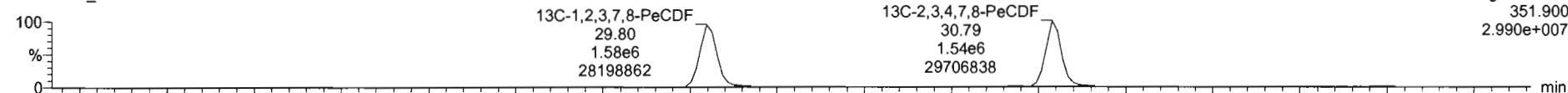
200429R2_6



F2:Voltage SIR,EI+
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2.874e+008

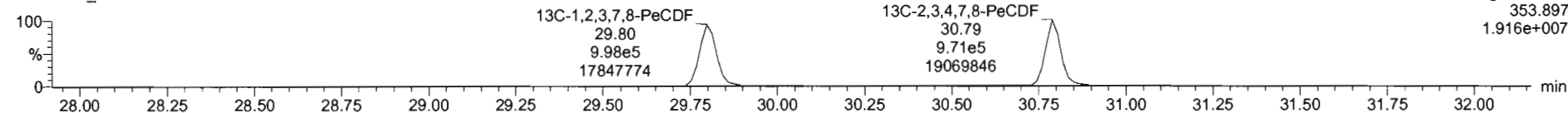
13C-1,2,3,7,8-PeCDF

200429R2_6



F2:Voltage SIR,EI+
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2.990e+007

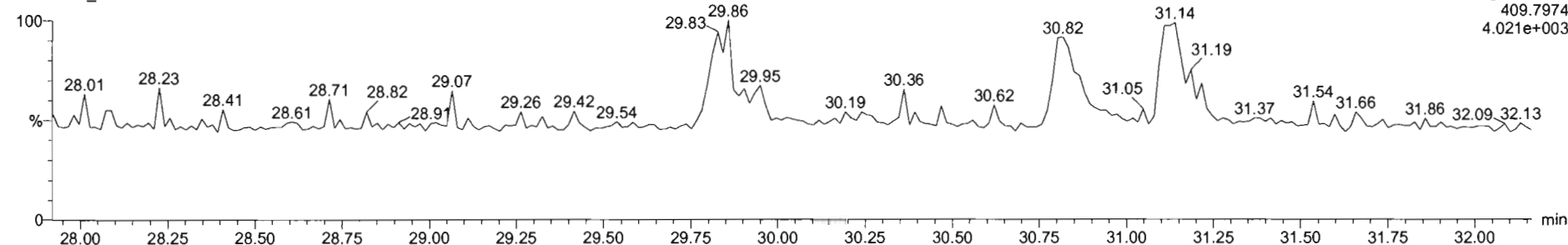
200429R2_6



F2:Voltage SIR,EI+
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1.916e+007

DPE2

200429R2_6



F2:Voltage SIR,EI+
409.7974
4.021e+003

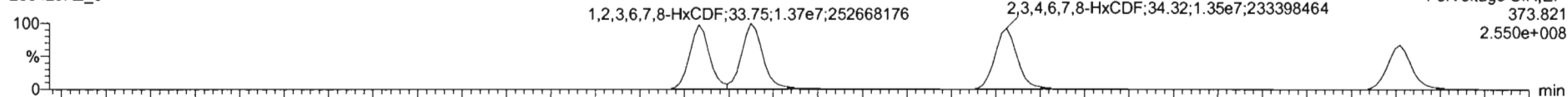
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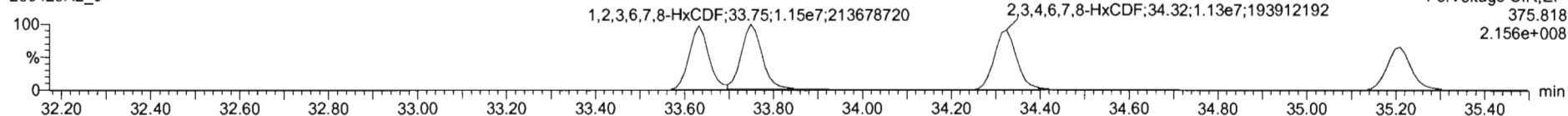
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1,2,3,4,7,8-HxCDF

200429R2_6

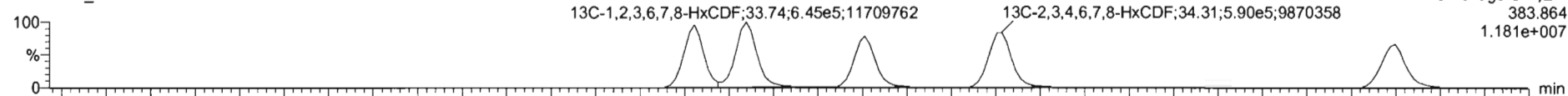


200429R2_6

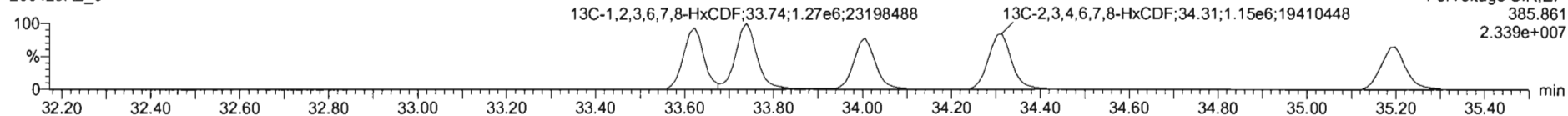


13C-1,2,3,4,7,8-HxCDF

200429R2_6

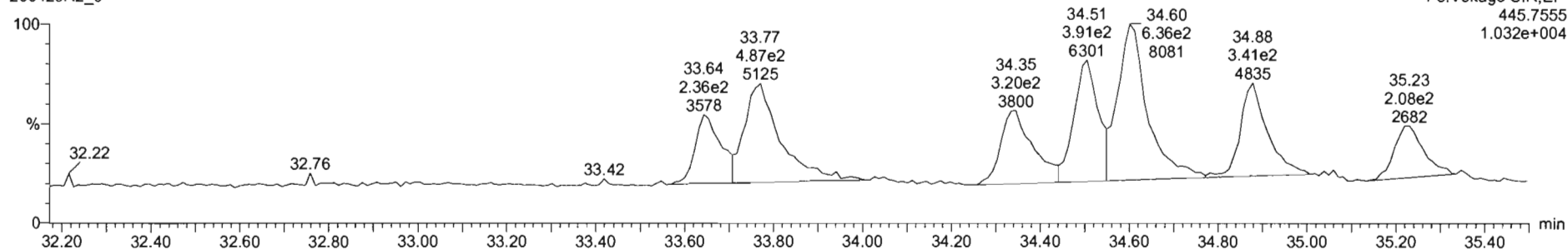


200429R2_6



DPE3

200429R2_6



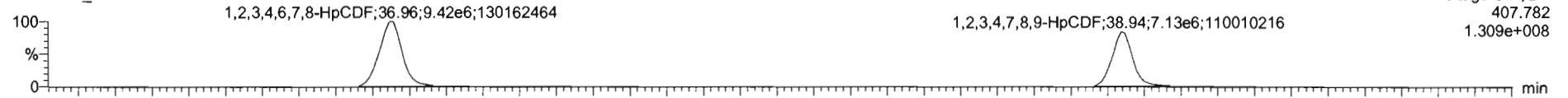
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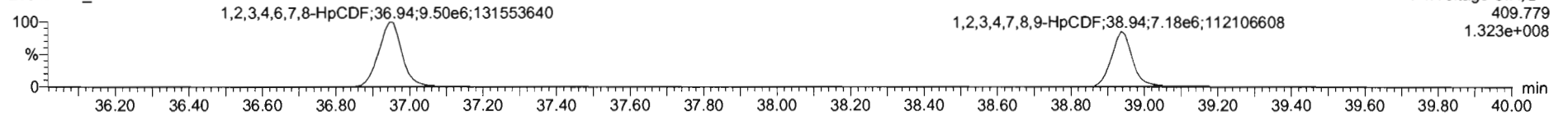
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1,2,3,4,6,7,8-HpCDF

200429R2_6

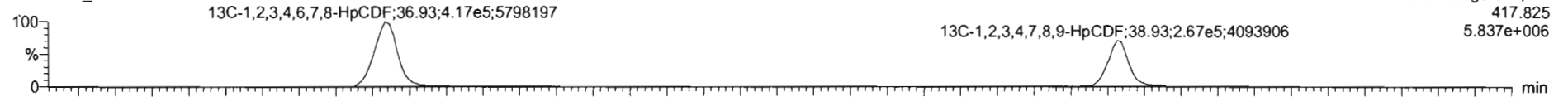


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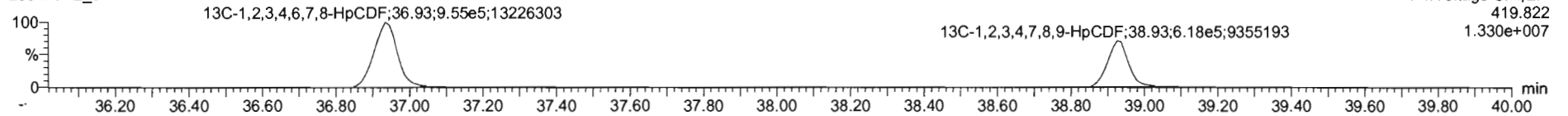


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200429R2_6

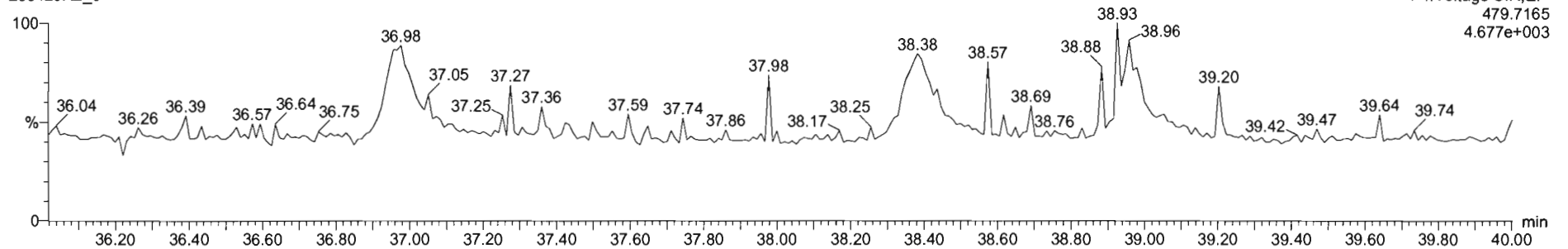


200429R2_6



DPE4

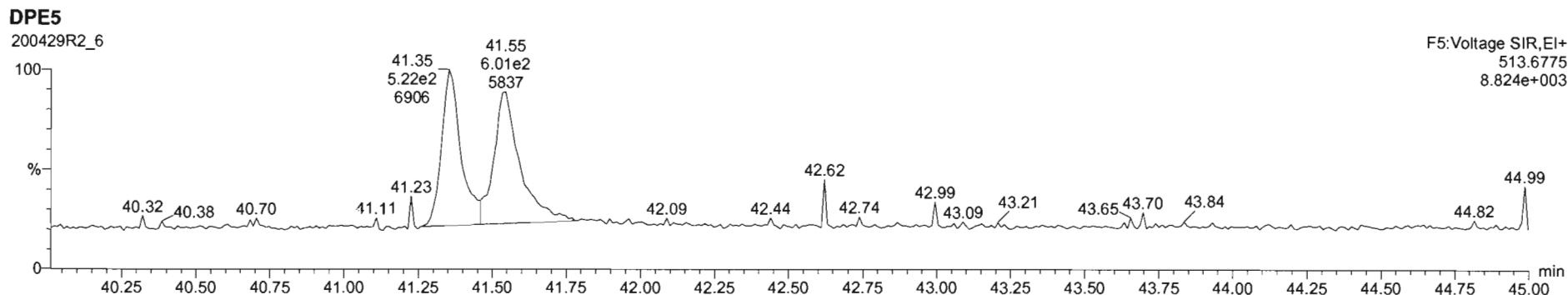
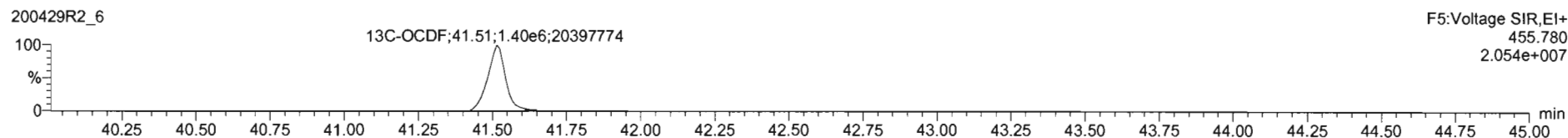
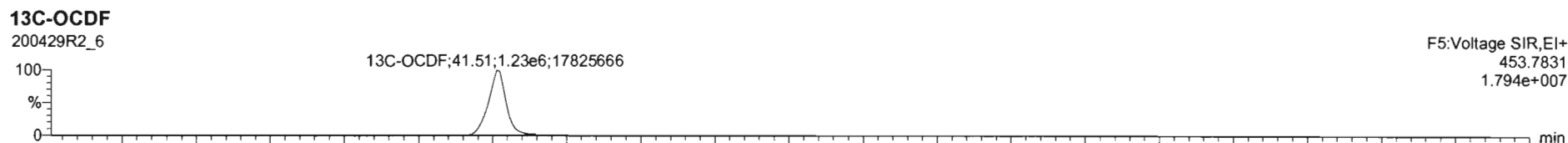
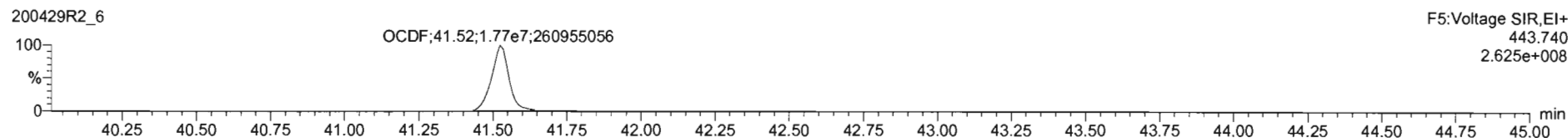
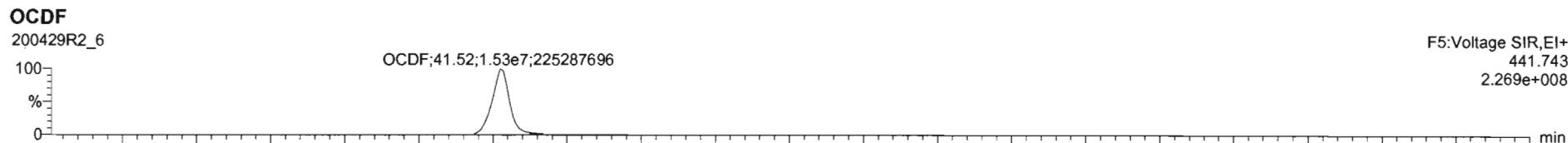
200429R2_6



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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	

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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	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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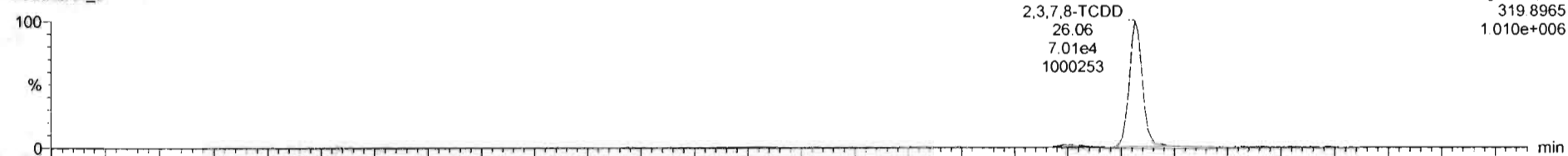
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Name: 200429R2_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

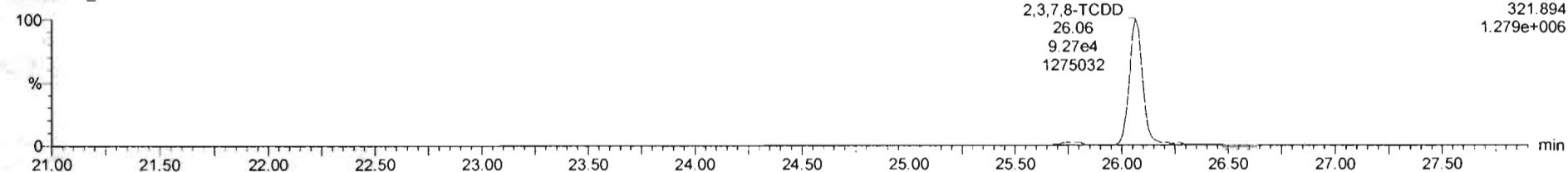
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200429R2_8



F1: Voltage SIR, EI+
319.8965
1.010e+006

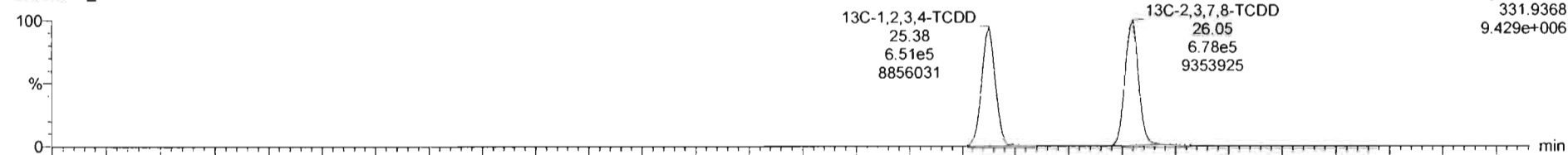
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F1: Voltage SIR, EI+
321.894
1.279e+006

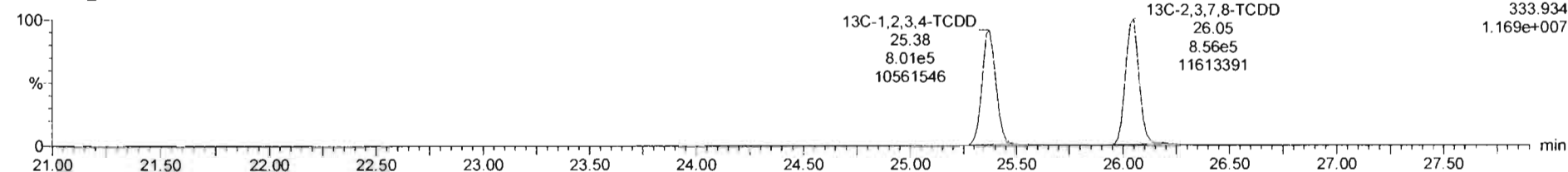
13C-2,3,7,8-TCDD

200429R2_8



F1: Voltage SIR, EI+
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9.429e+006

200429R2_8



F1: Voltage SIR, EI+
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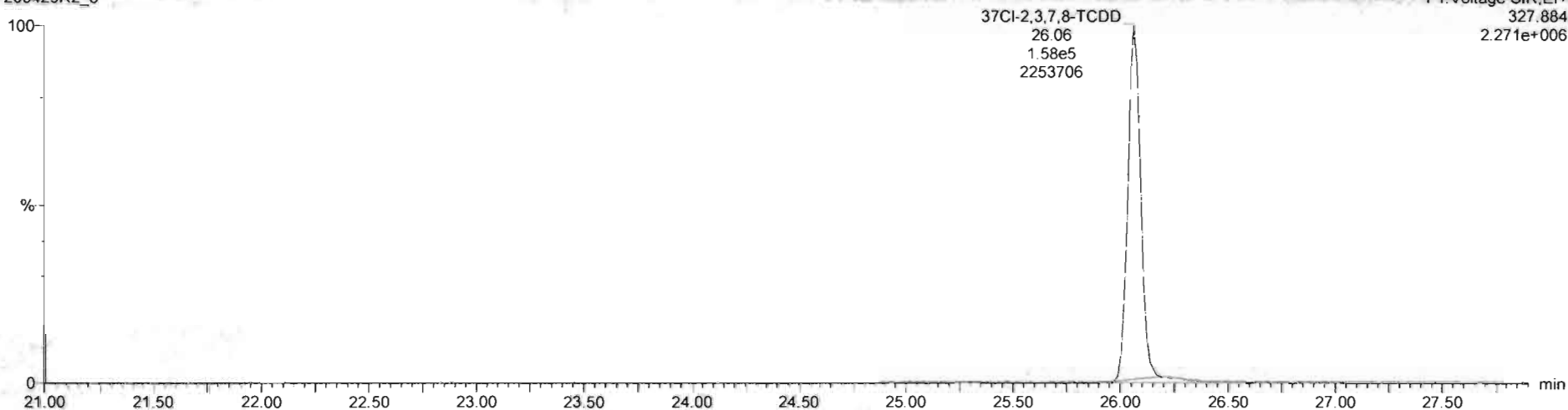
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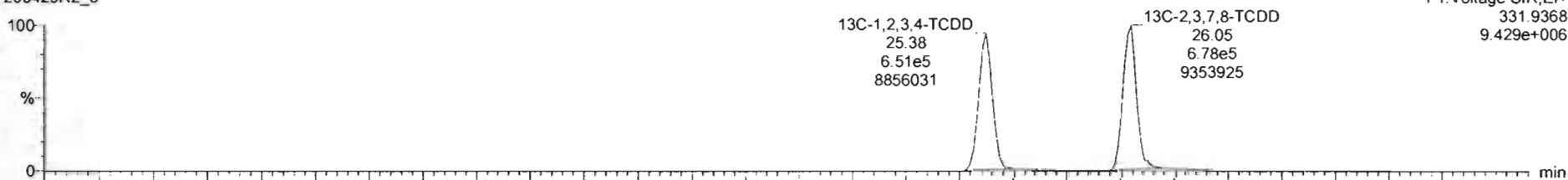
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200429R2_8

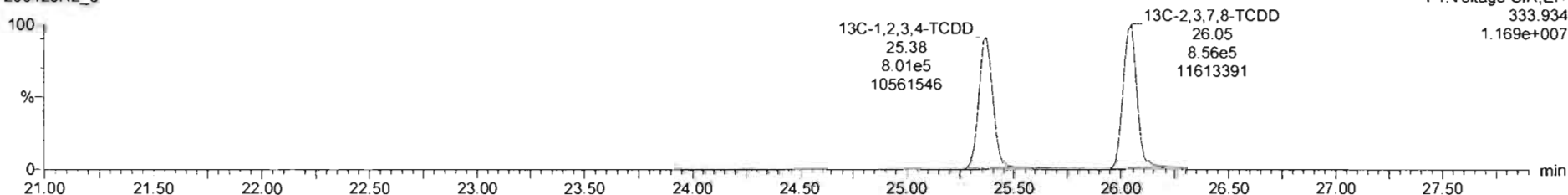


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200429R2_8



200429R2_8



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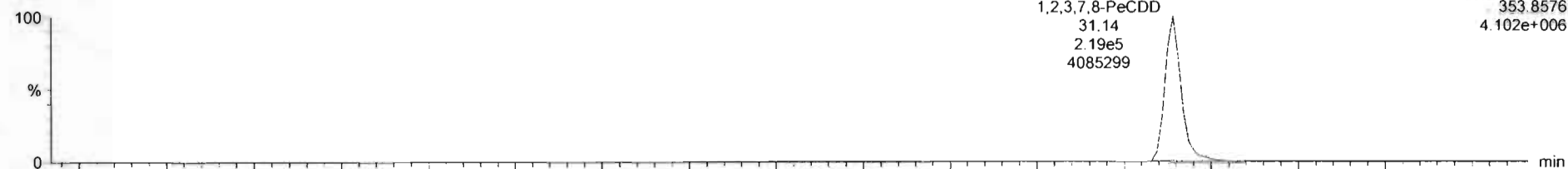
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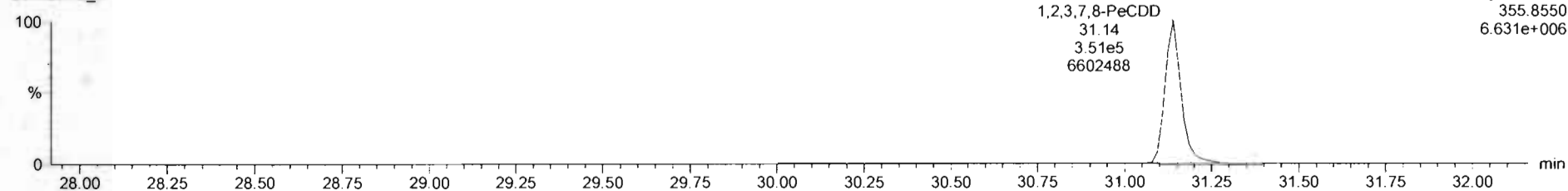
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1,2,3,7,8-PeCDD

200429R2_8

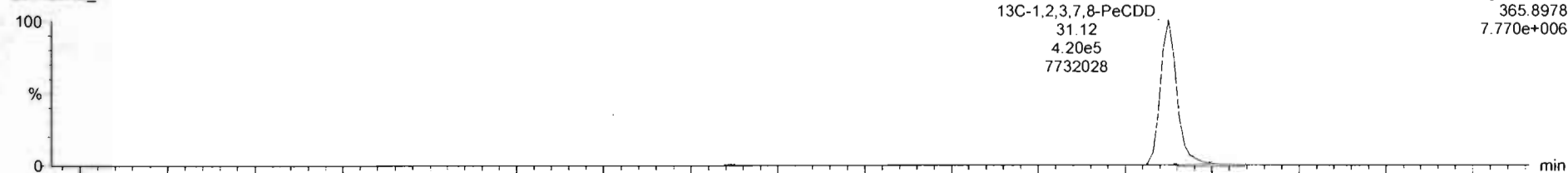


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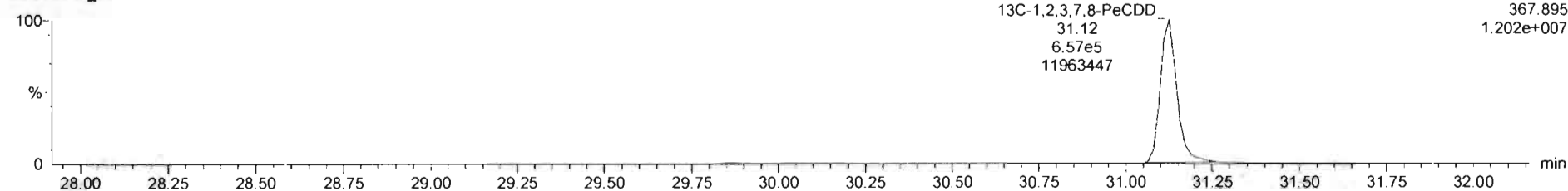


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200429R2_8



200429R2_8



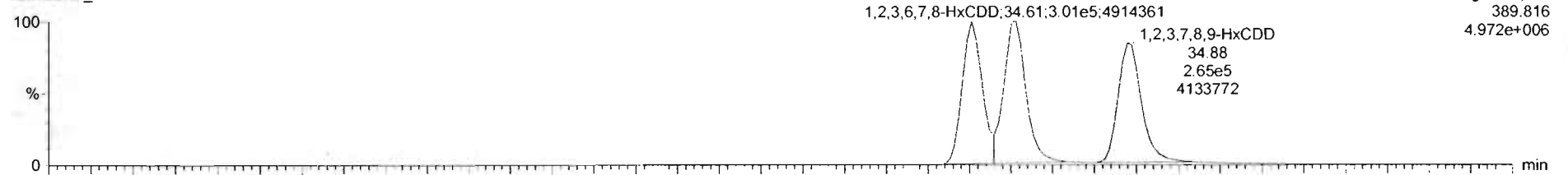
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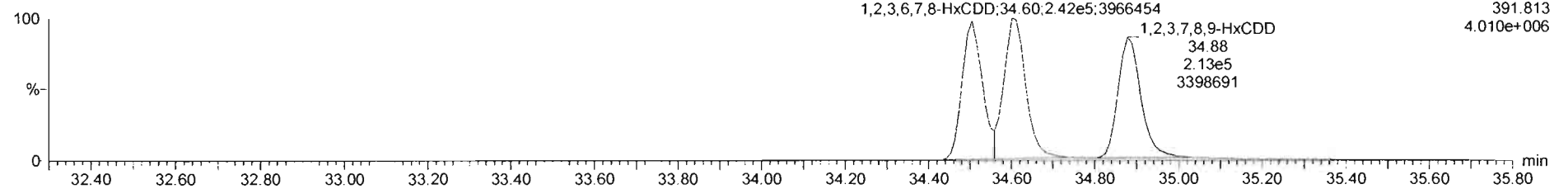
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1,2,3,4,7,8-HxCDD

200429R2_8

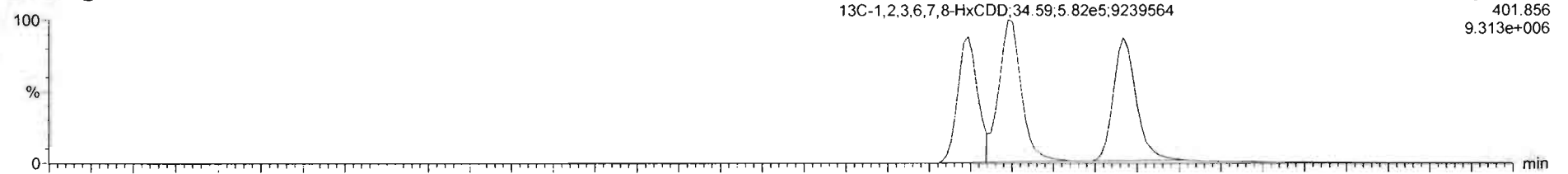


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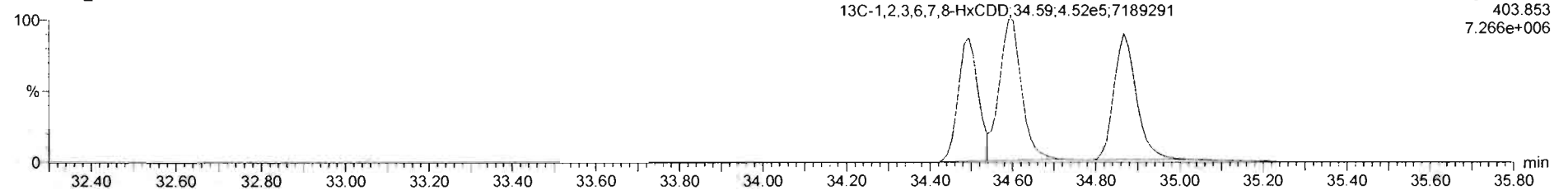


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200429R2_8



200429R2_8



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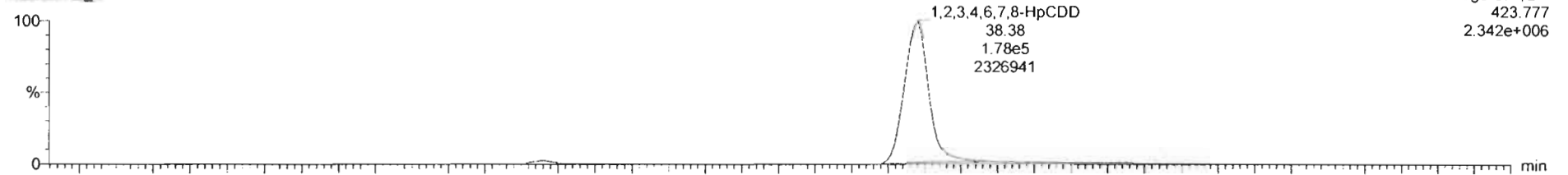
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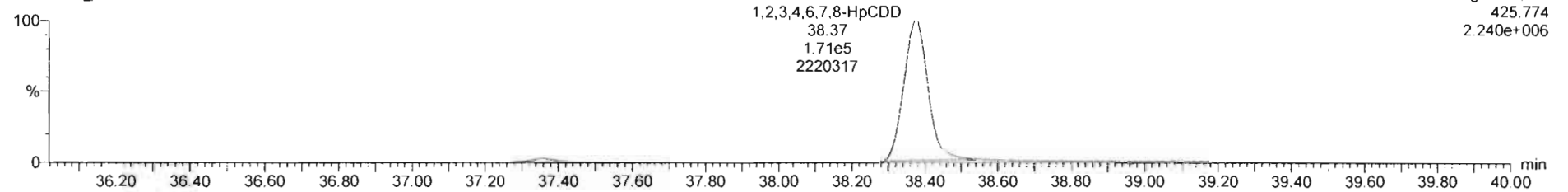
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1,2,3,4,6,7,8-HpCDD

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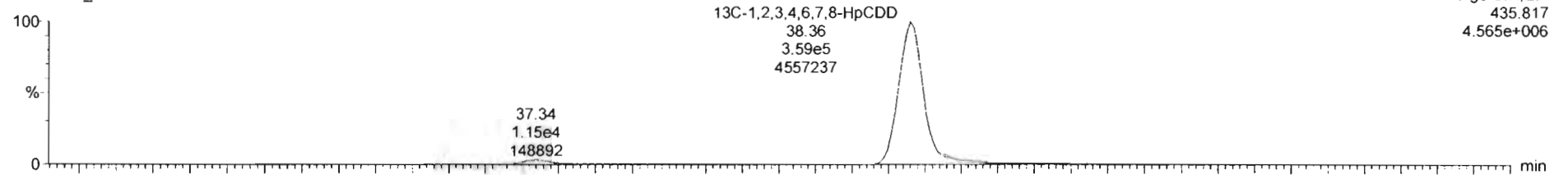


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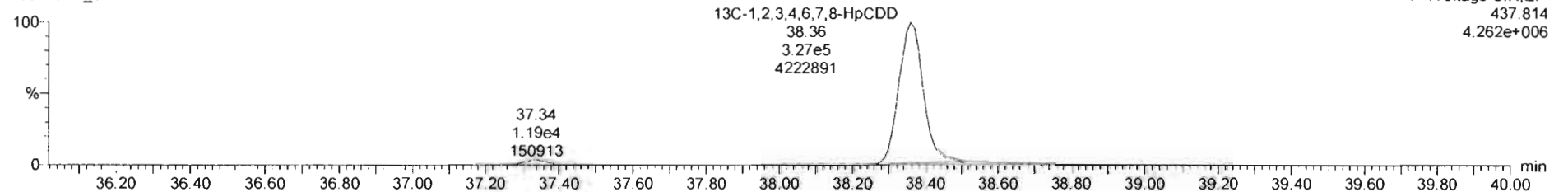


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200429R2_8



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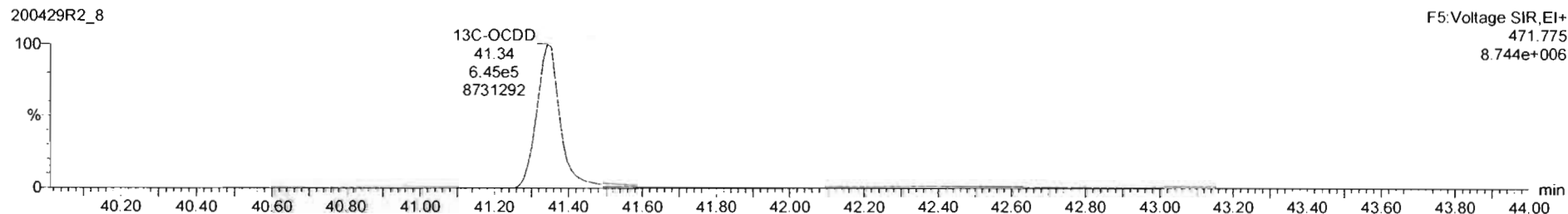
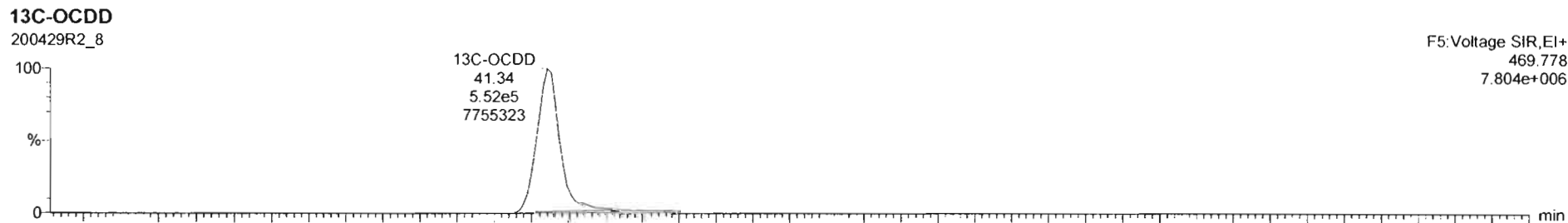
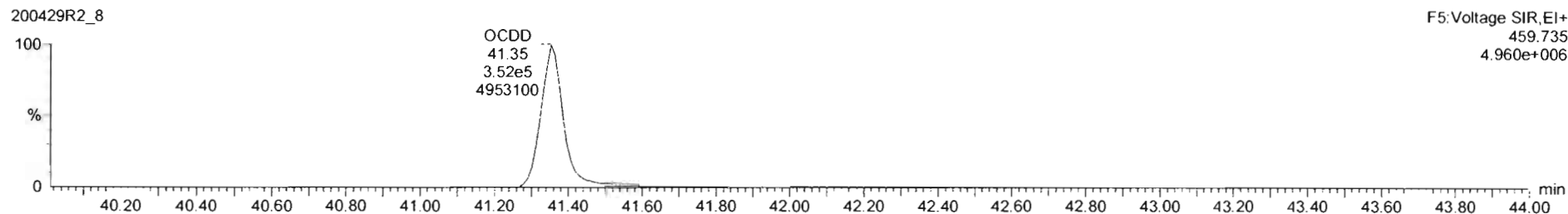
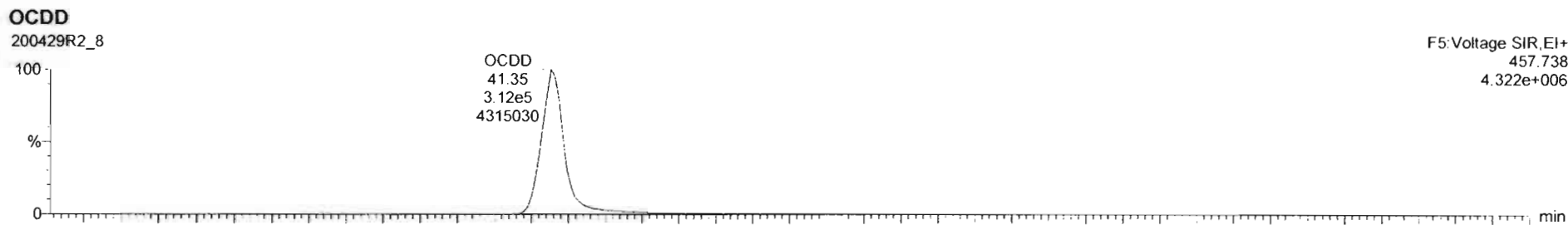


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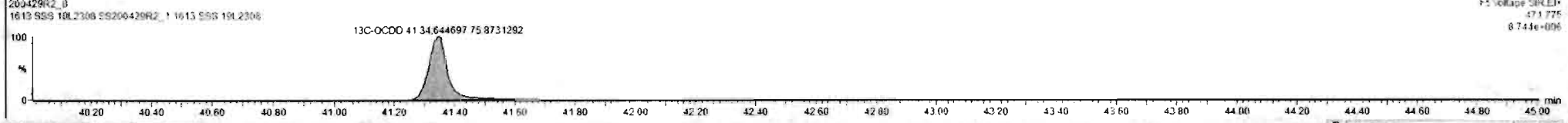
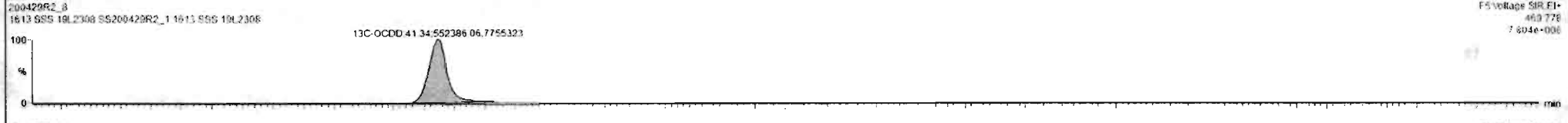
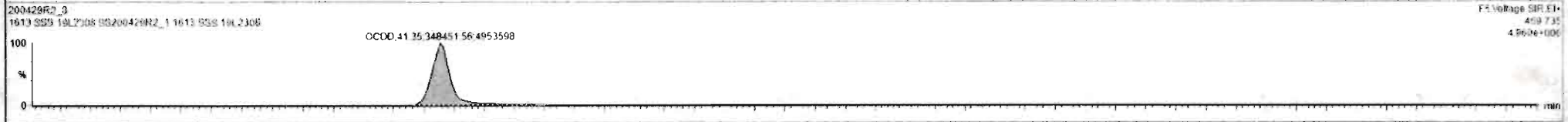
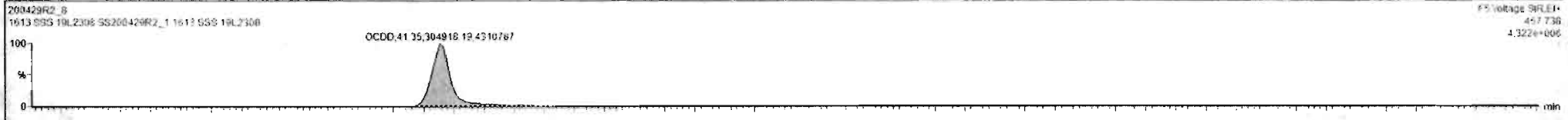
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Name: 200429R2_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308



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	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	56.0	11.6	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	11.5	0.105	57.4
5 1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.9149	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	0.8919	1.000	36.38	1.001	56.7	11.3	0.145	56.7
7 OCDD	6.53e5	0.55	NO	0.9325	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	5.00e5	1.54	NO	0.9102	1.000	29.83	1.001	55.8	11.2	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	12.2	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	11.2	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	11.3	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	11.2	0.118	56.2
14 1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.8542	1.000	35.22	1.000	55.3	11.1	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	11.0	0.153	54.9
16 1,2,3,4,7,8,9-HpCDF	2.99e5	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	0.158	115



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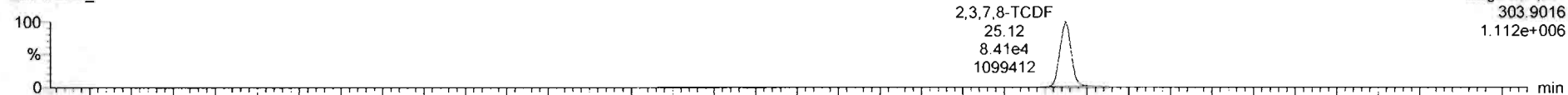
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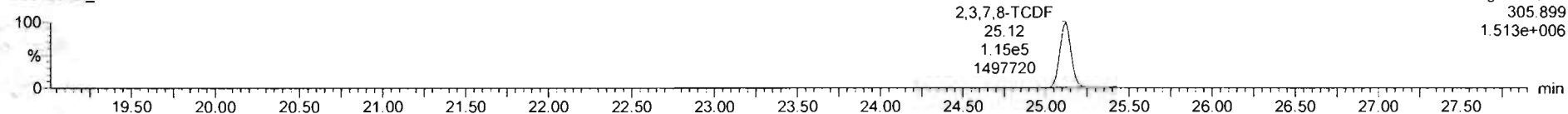
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2,3,7,8-TCDF

200429R2_8

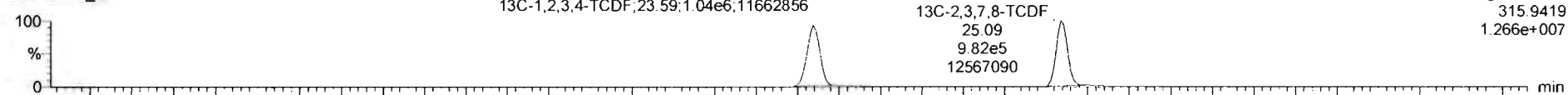


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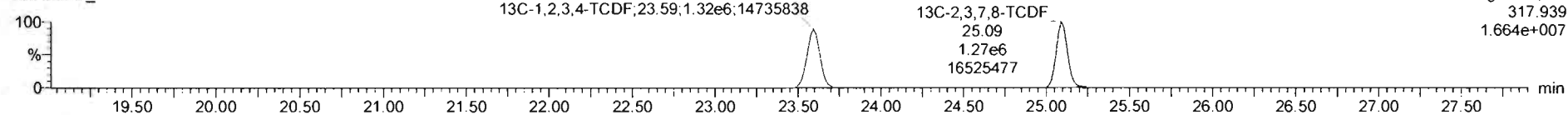


13C-2,3,7,8-TCDF

200429R2_8

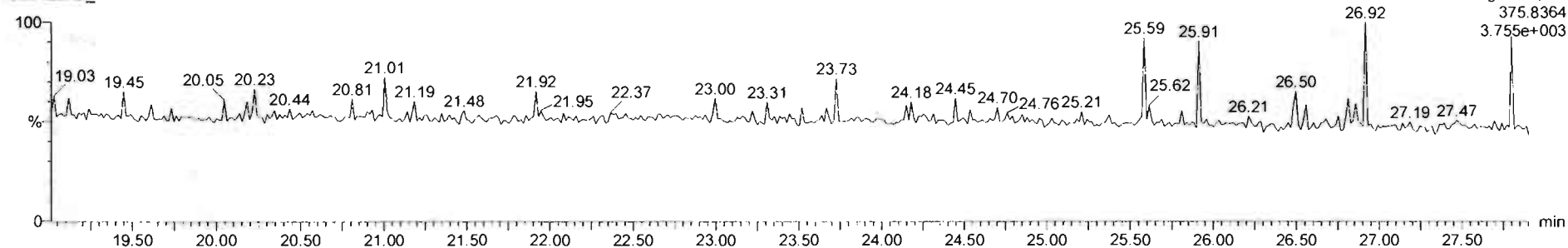


200429R2_8



DPE1

200429R2_8



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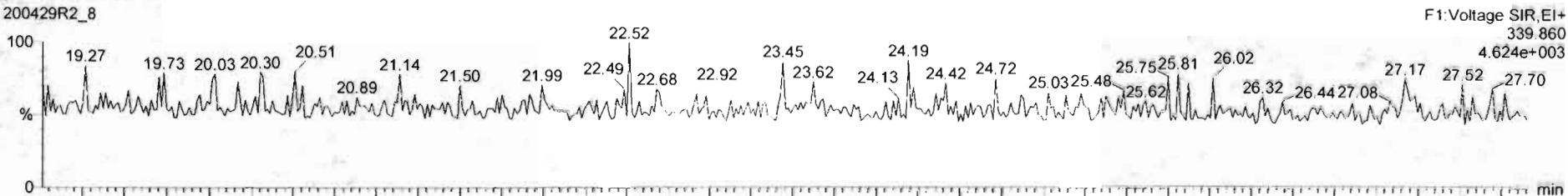
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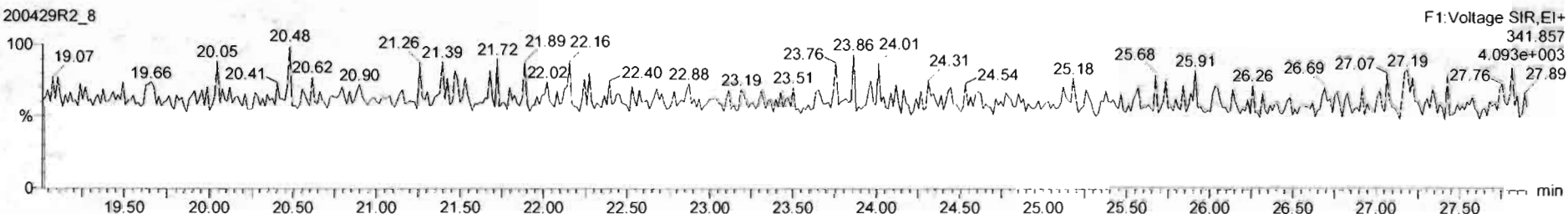
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200429R2_8

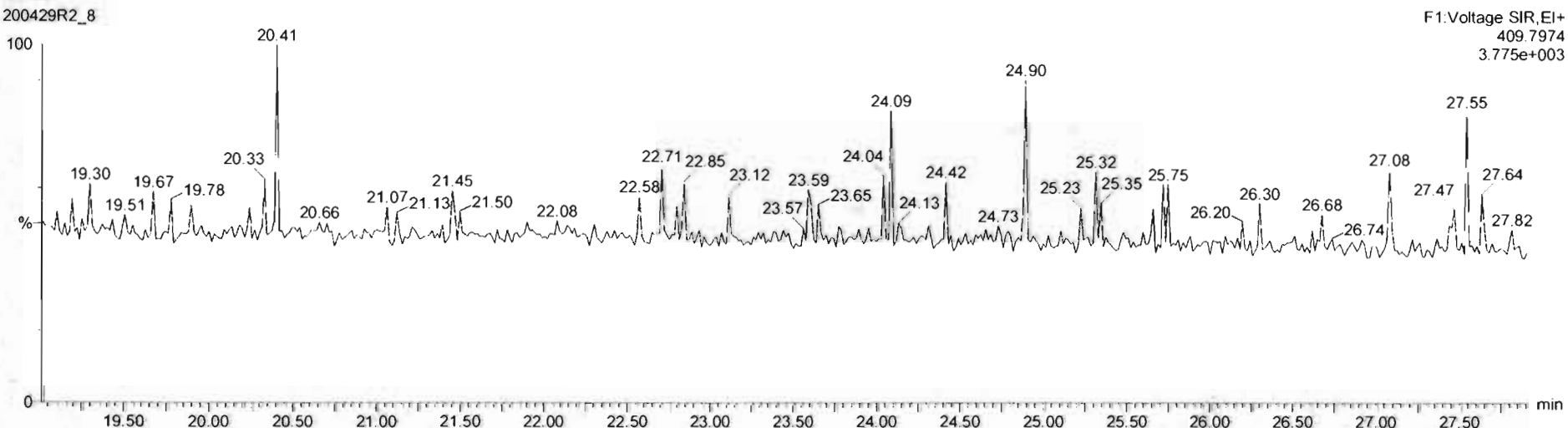


200429R2_8



DPE6

200429R2_8



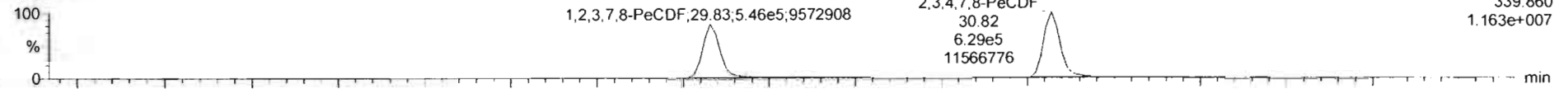
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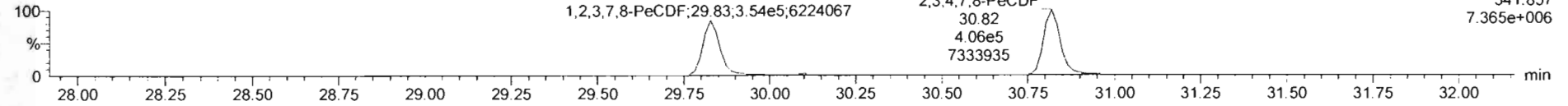
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1,2,3,7,8-PeCDF

200429R2_8

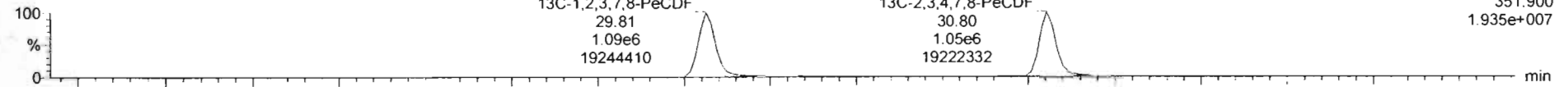


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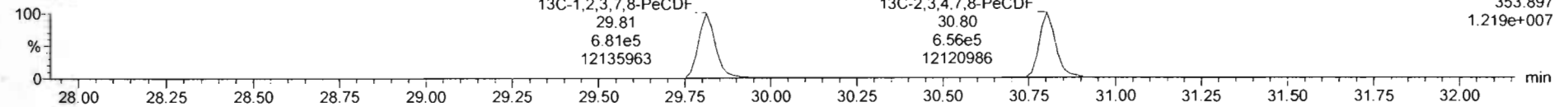


13C-1,2,3,7,8-PeCDF

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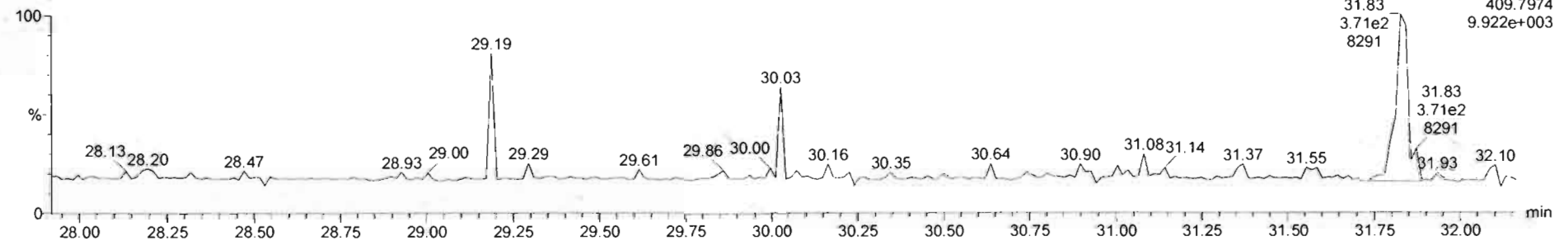


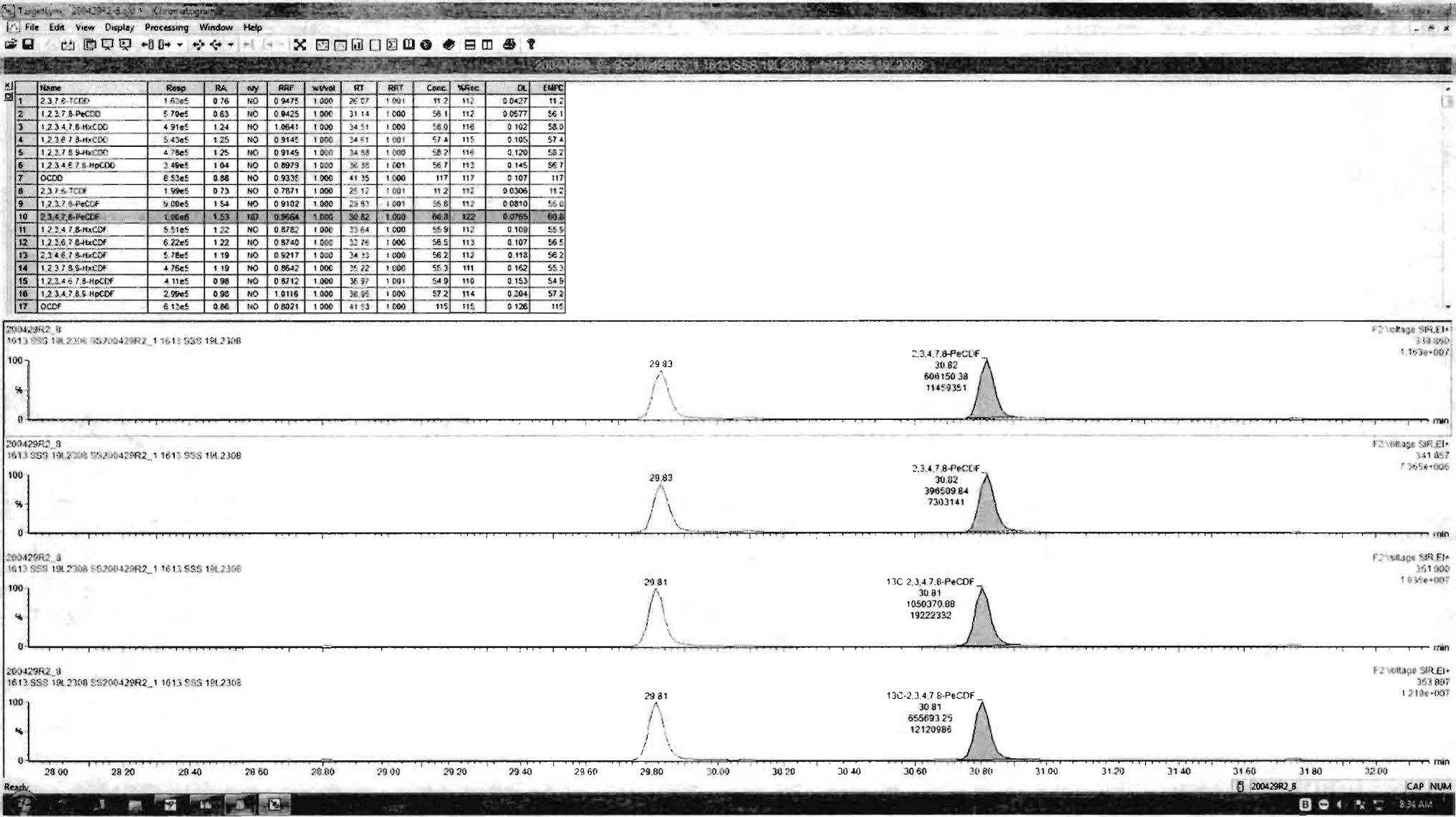
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DPE2

200429R2_8





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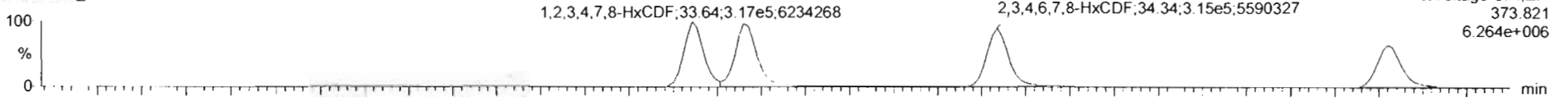
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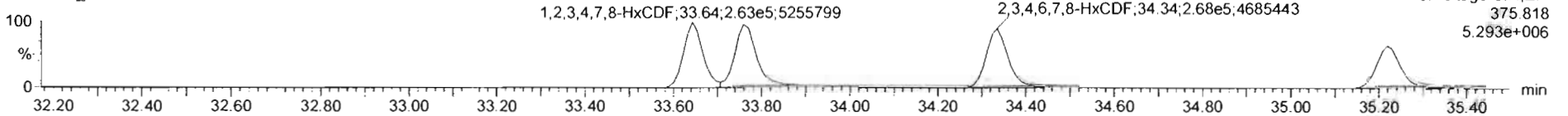
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1,2,3,4,7,8-HxCDF

200429R2_8

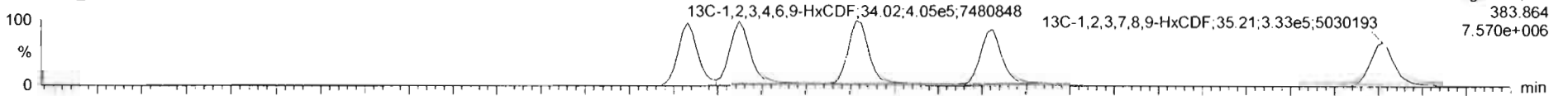


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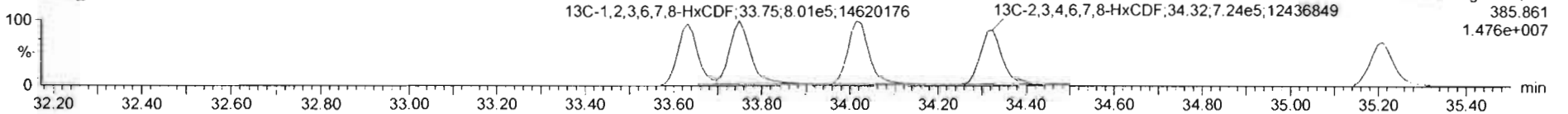


13C-1,2,3,4,7,8-HxCDF

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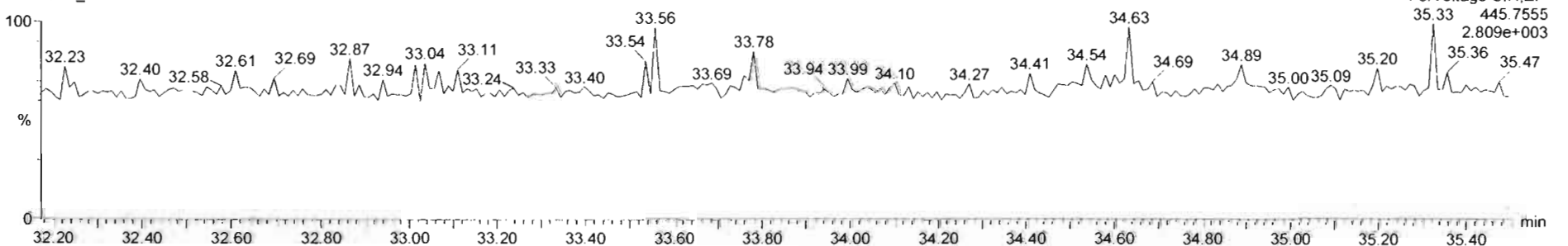


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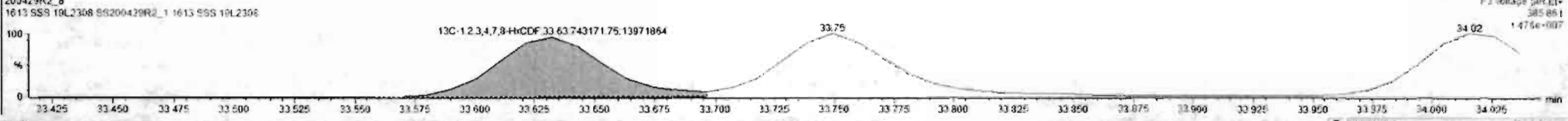
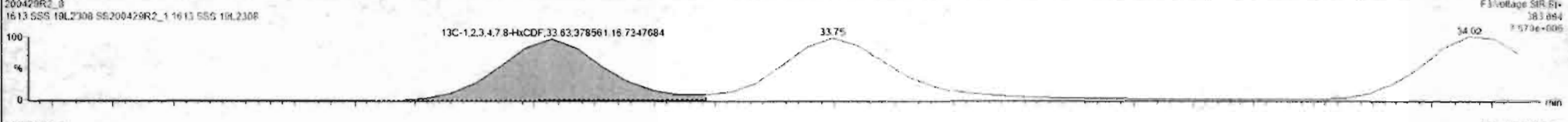
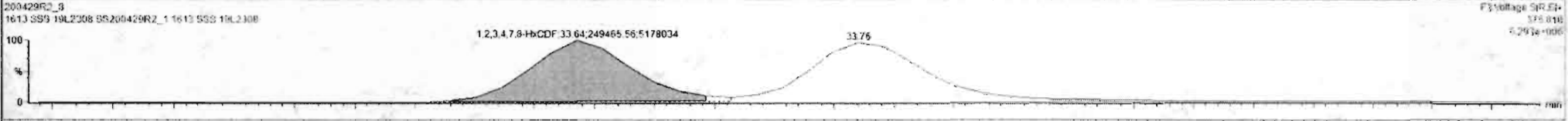
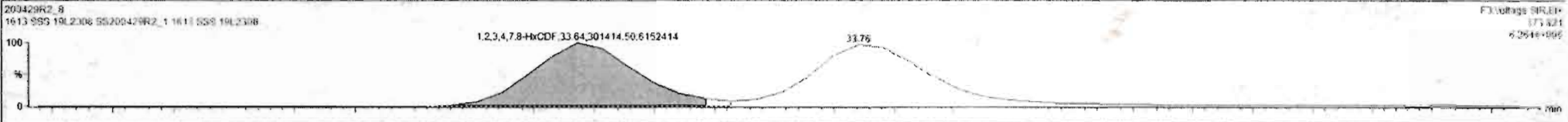
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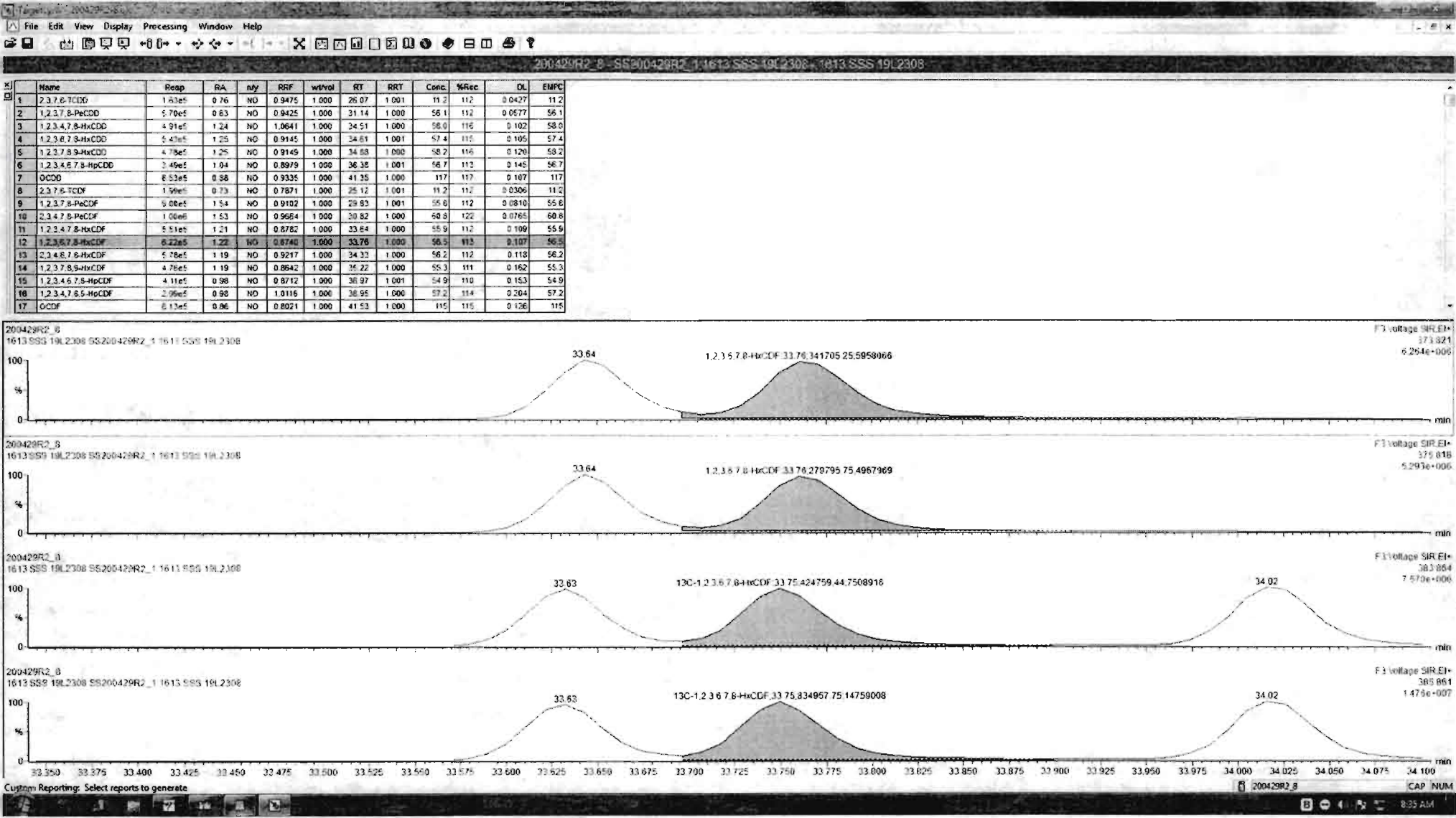
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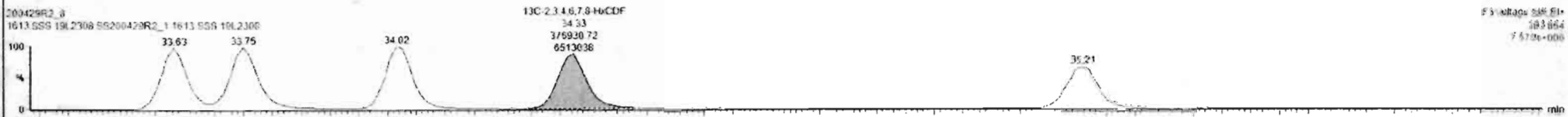
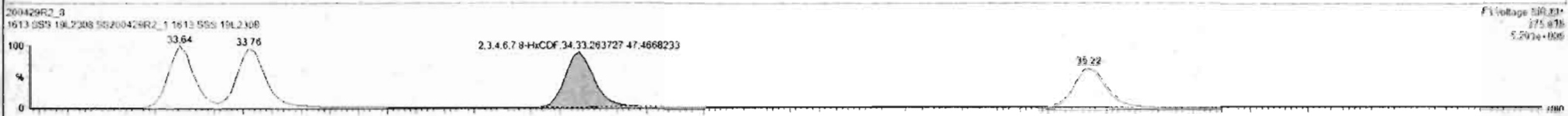
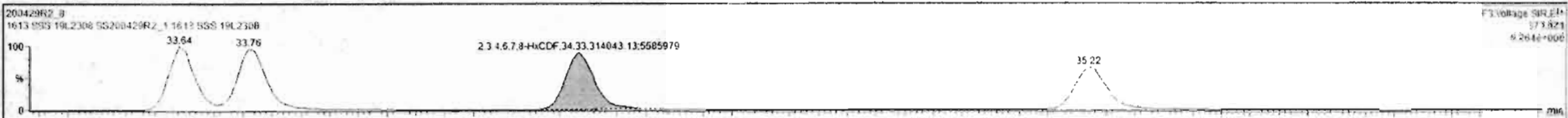
200429R2_8 - SS200429R2_1 1613 SSS 19L2308 - 1613 SSS 19L2308

#	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	1.006	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

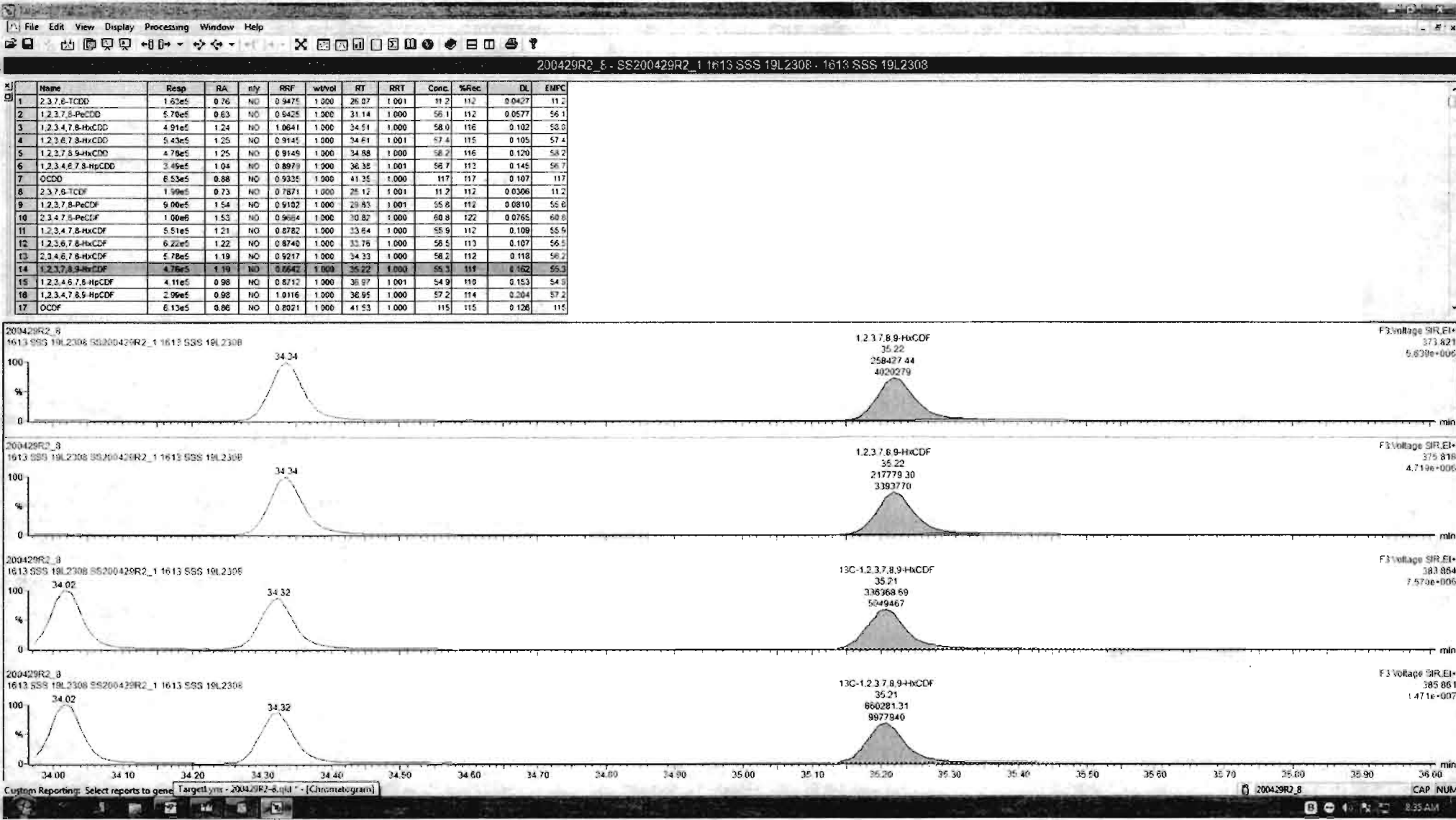




#	Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.7	11.2	0.0427	11.2
2	1,2,3,7,8-PeCDD	5.70e5	0.83	NO	0.9425	1.000	31.14	1.000	56.1	11.2	0.0577	56.1
3	1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	58.0	11.6	0.102	58.0
4	1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.61	1.001	57.4	11.6	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	11.6	0.126	115



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Dataset: Untitled

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Printed: Thursday, April 30, 2020 8:38:30 AM Pacific Daylight Time

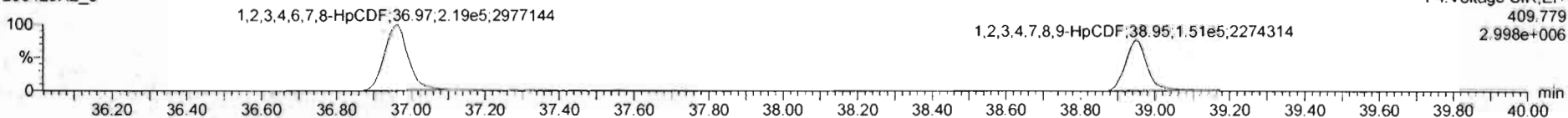
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200429R2_8

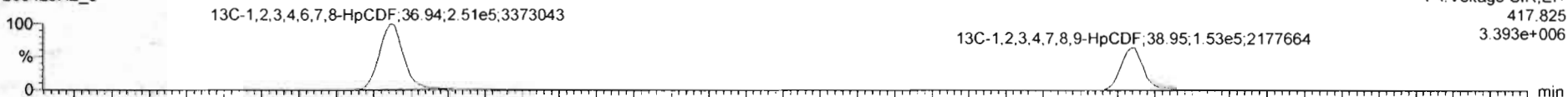


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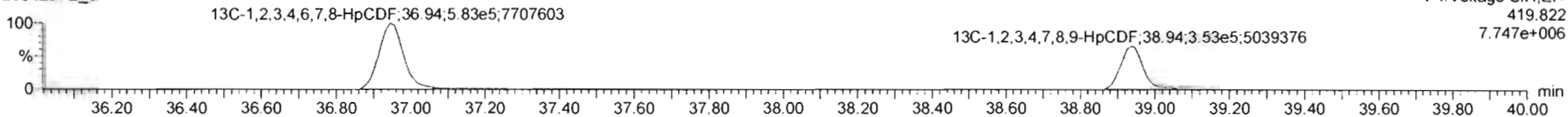


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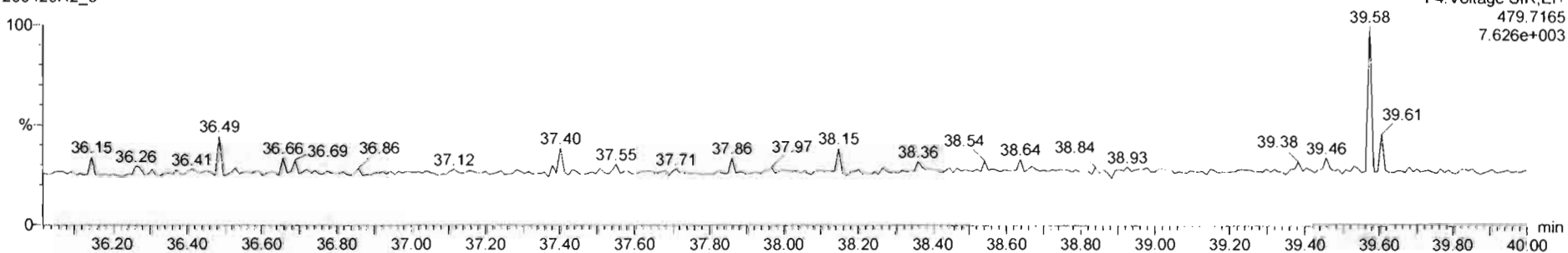


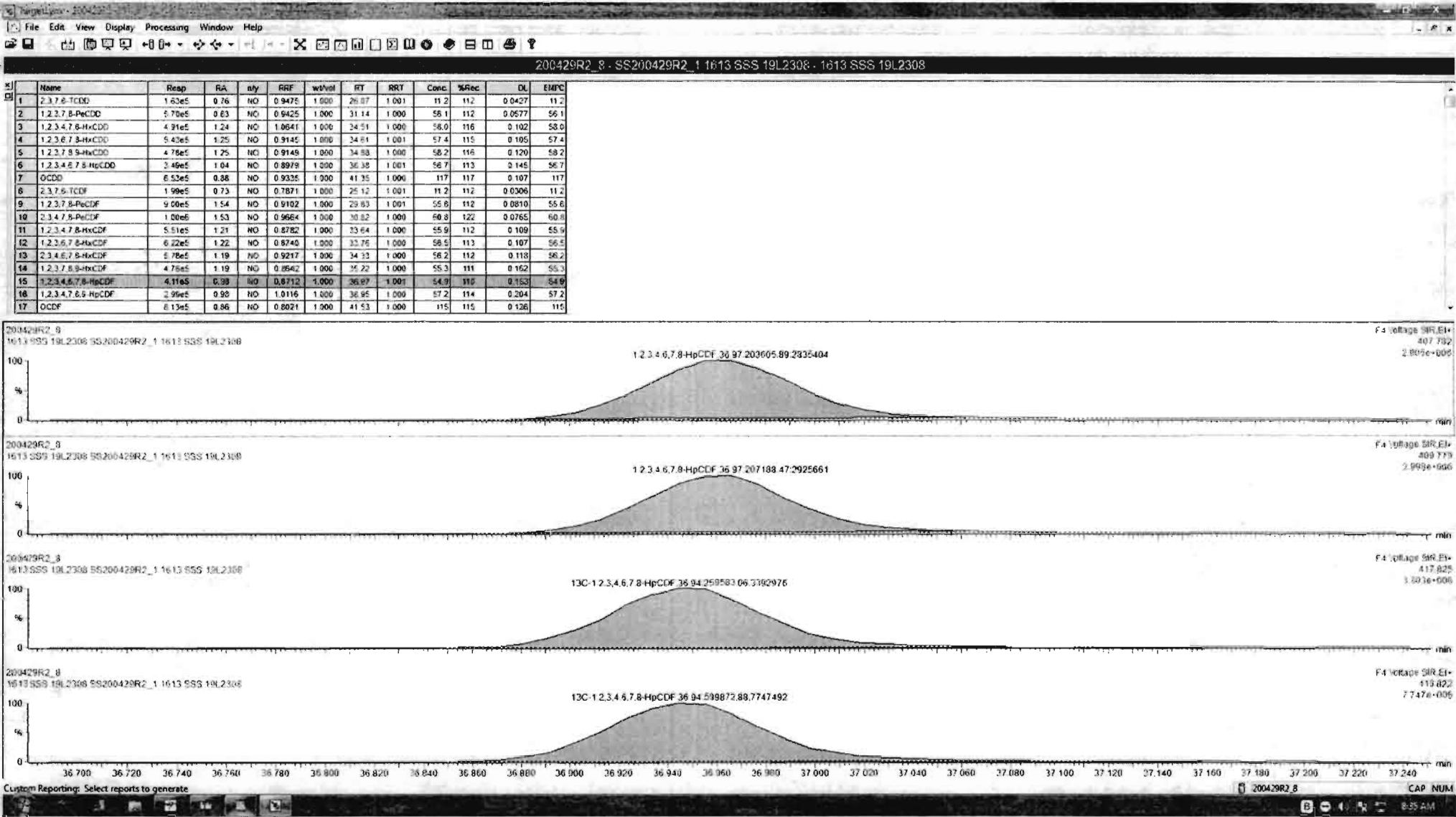
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DPE4

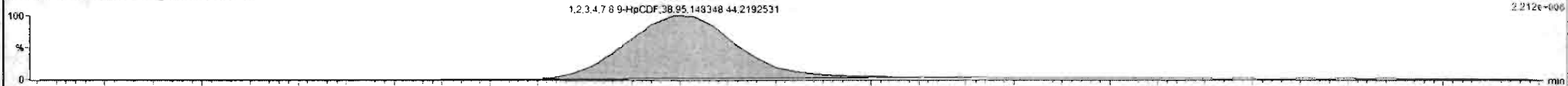
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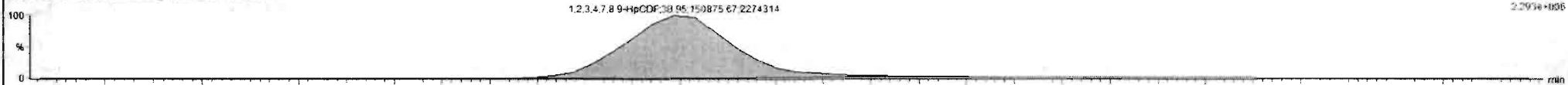


Name	Resp	RA	dy	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	11.2	0.0427	11.2
2 1,2,3,7,8-PeCDD	4.70e5	0.83	NO	0.9425	1.000	31.14	1.000	58.1	11.2	0.0577	56.1
3 1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	58.0	11.6	0.102	58.0
4 1,2,3,6,7,8-HxCDD	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

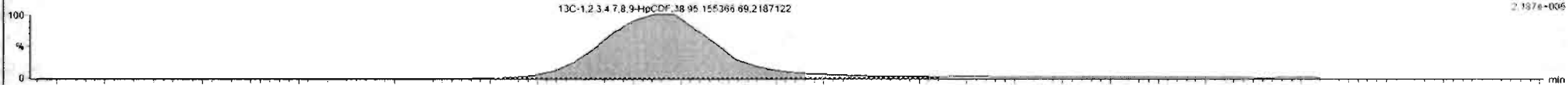
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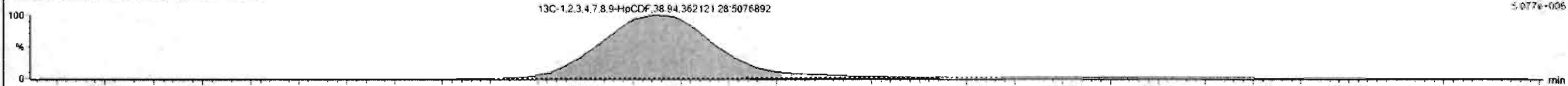
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200429R2_8
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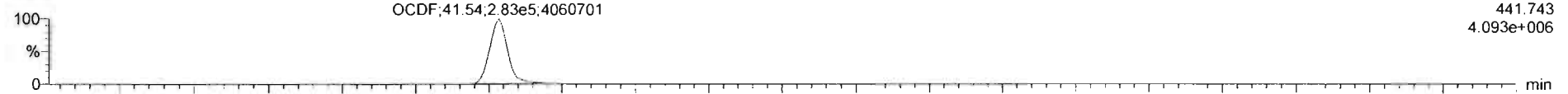
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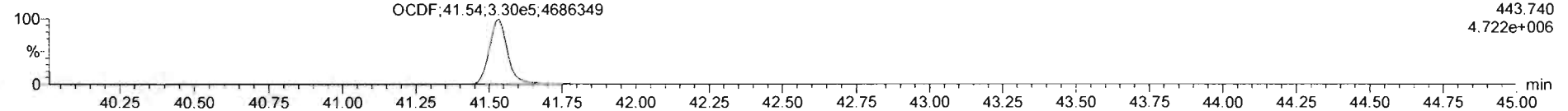
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OCDF

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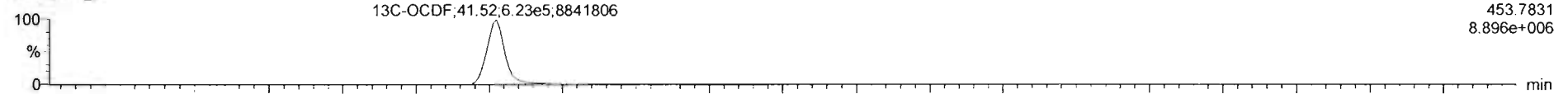


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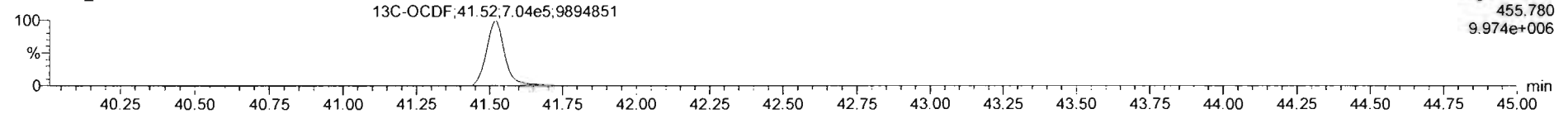


13C-OCDF

200429R2_8

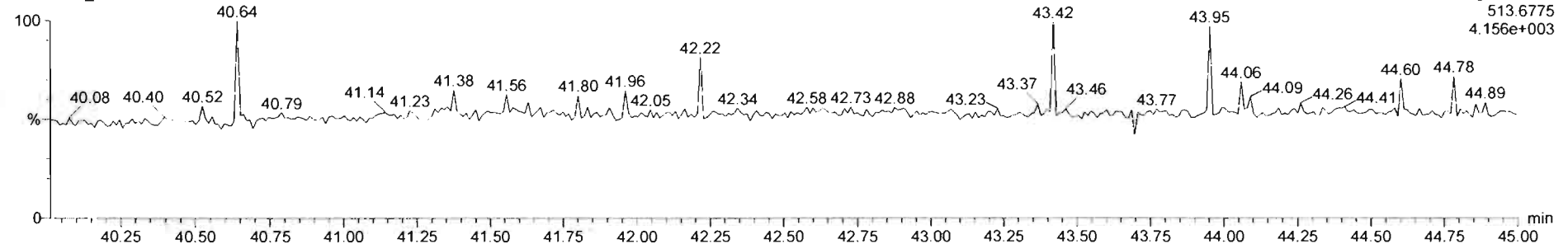


200429R2_8



DPE5

200429R2_8



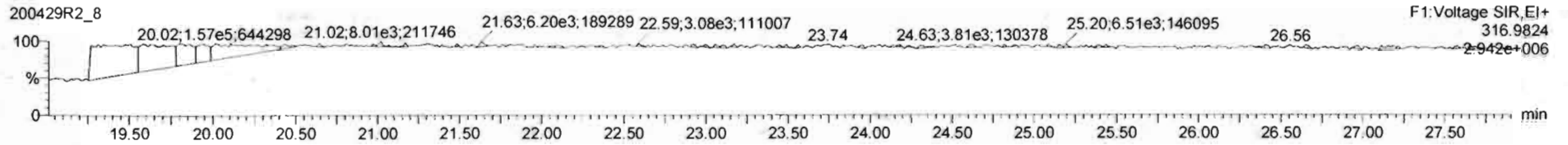
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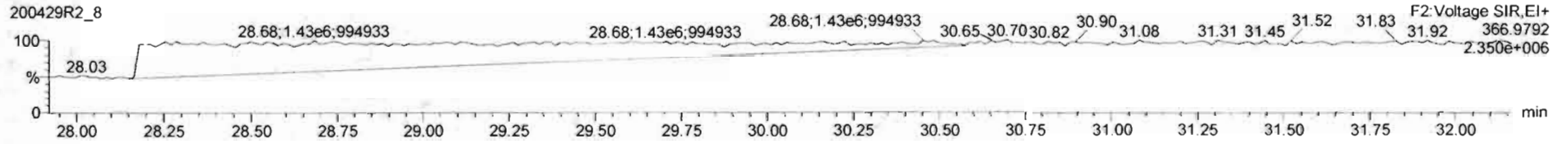
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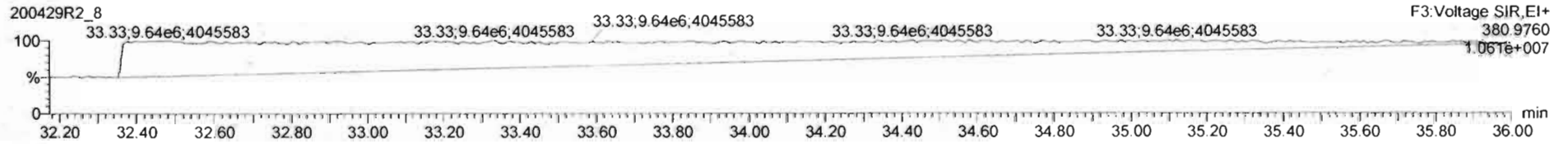
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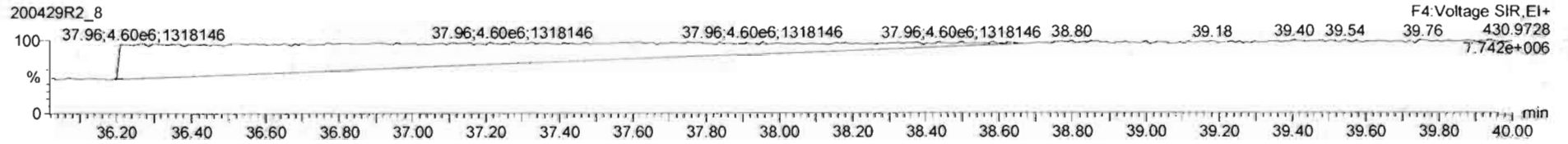
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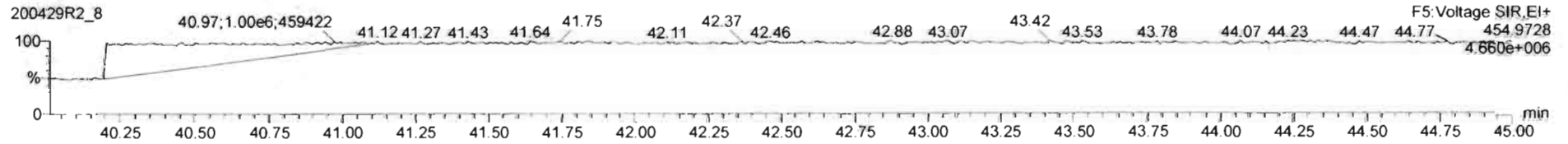
PFK3



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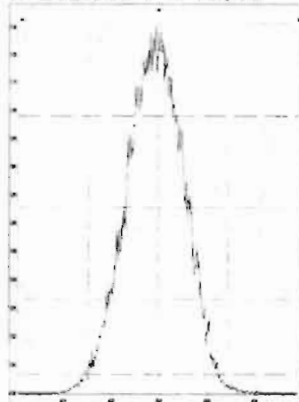
PFK5



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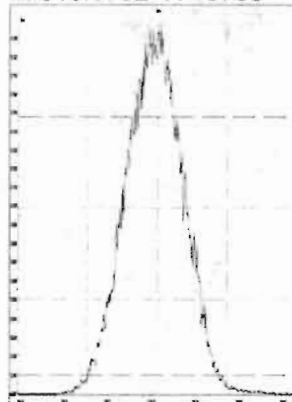
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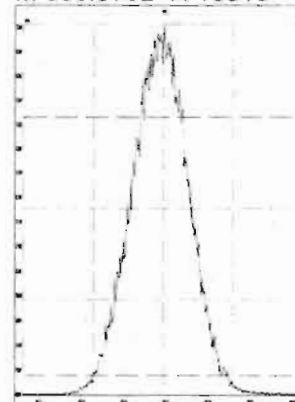
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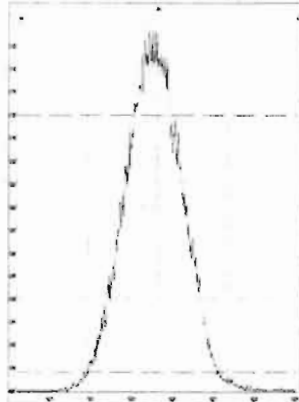
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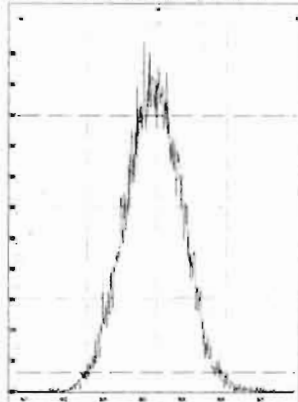
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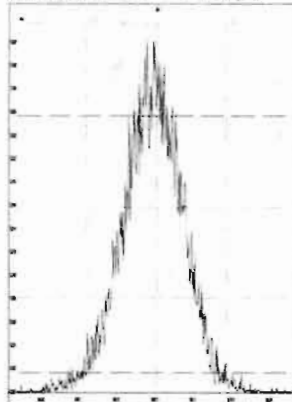
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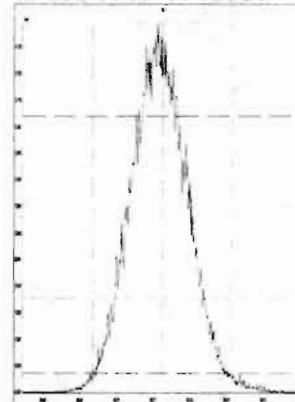
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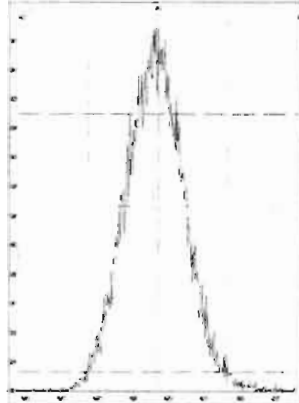
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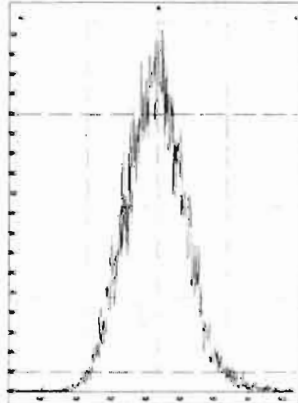
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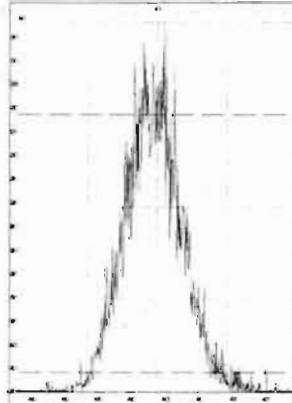
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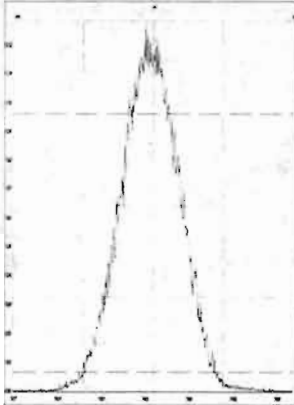
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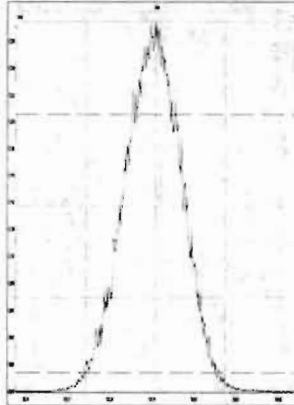
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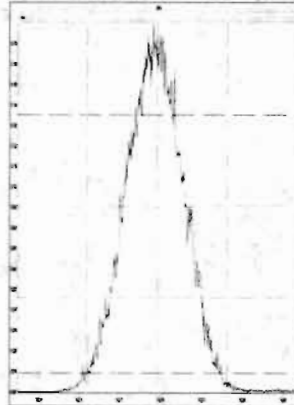
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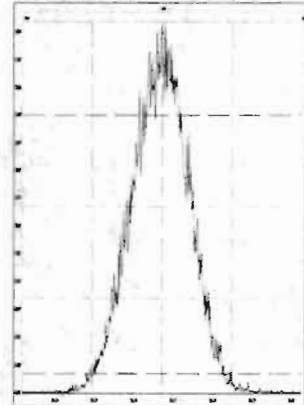
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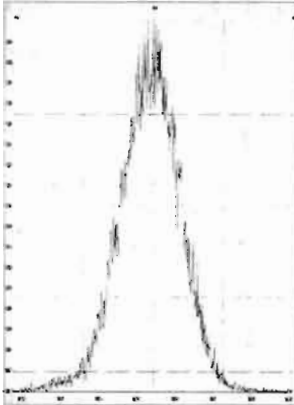
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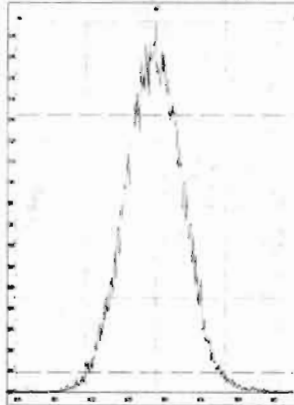
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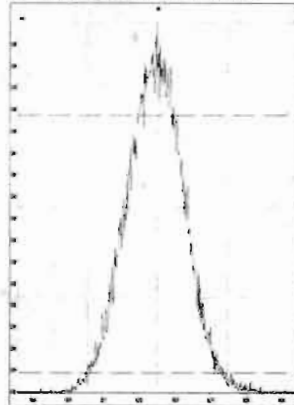
M 366.9792 R 10681



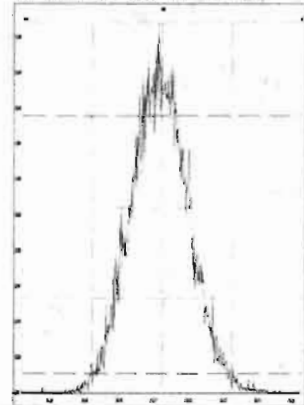
M 380.9760 R 10374



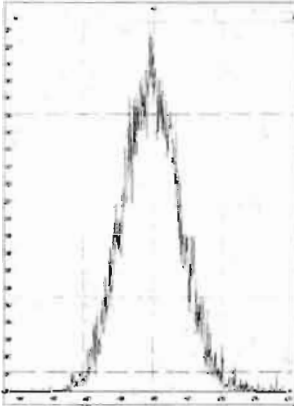
M 392.9760 R 10329



M 404.9760 R 10730



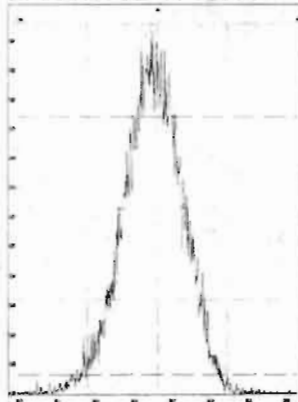
M 416.9760 R 12018



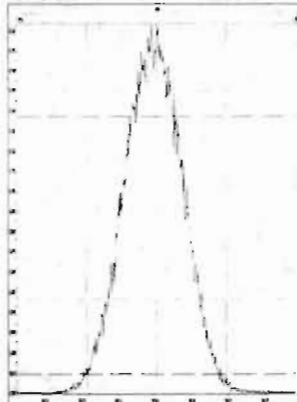
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, April 30, 2020 07:17:57 Pacific Daylight Time

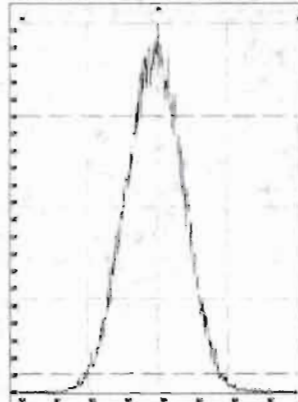
M 366.9792 R 10079



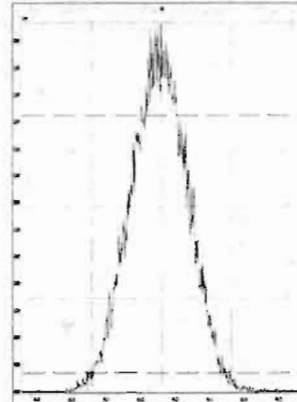
M 380.9760 R 10590



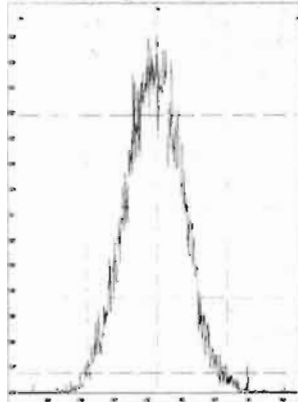
M 392.9760 R 10592



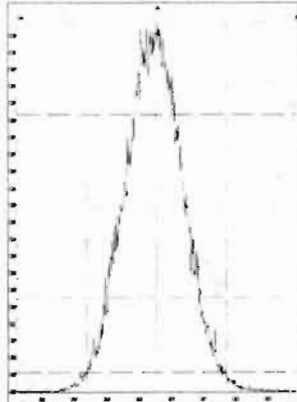
M 404.9760 R 11010



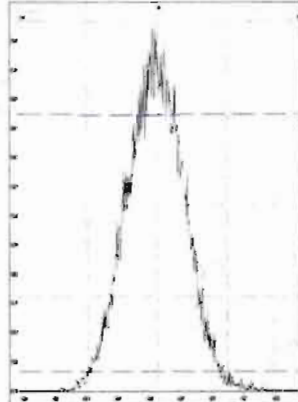
M 416.9760 R 10964



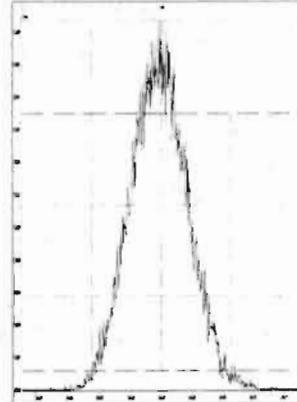
M 430.9728 R 10415



M 442.9728 R 10730



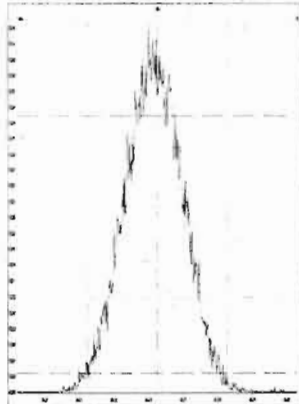
M 454.9728 R 11260



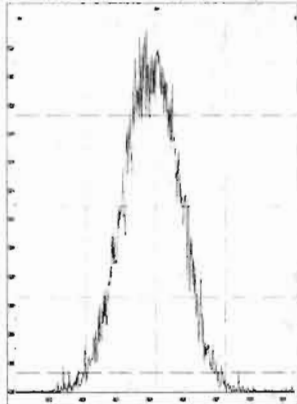
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, April 30, 2020 07:18:12 Pacific Daylight Time

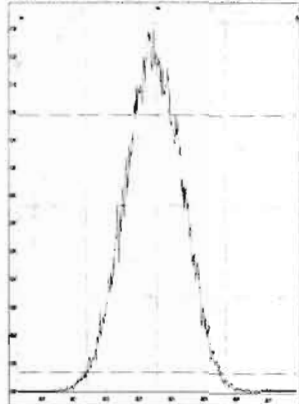
M 404.9760 R 10682



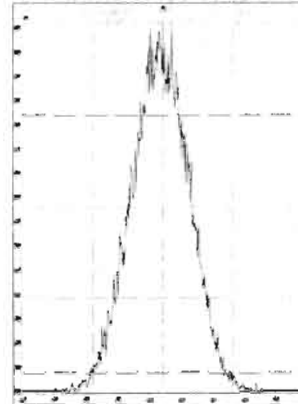
M 416.9760 R 10776



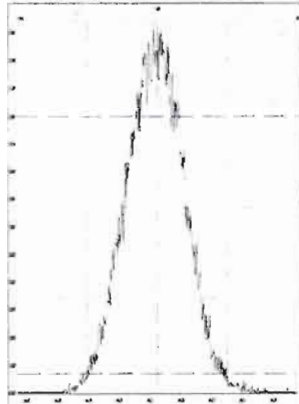
M 430.9728 R 10503



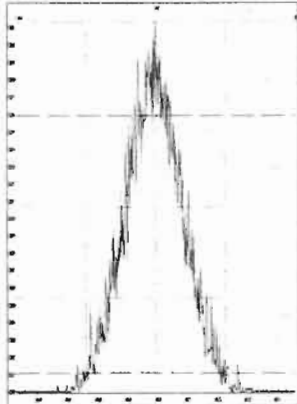
M 442.9728 R 10505



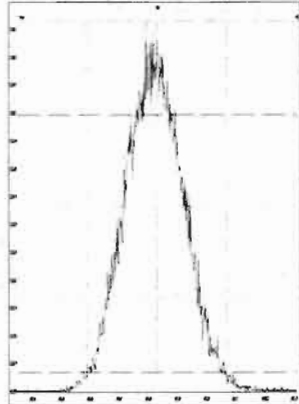
M 454.9728 R 10460



M 466.9728 R 10591



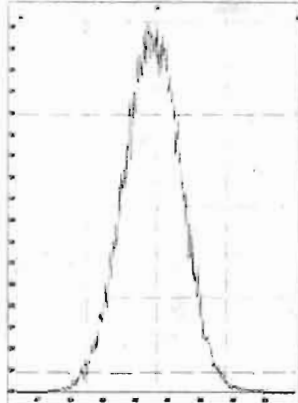
M 480.9696 R 10040



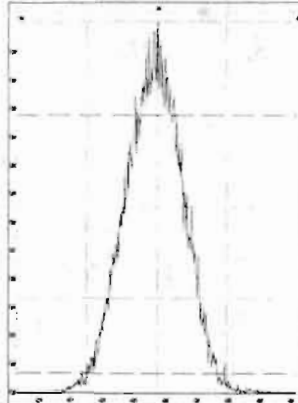
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, April 30, 2020 07:18:29 Pacific Daylight Time

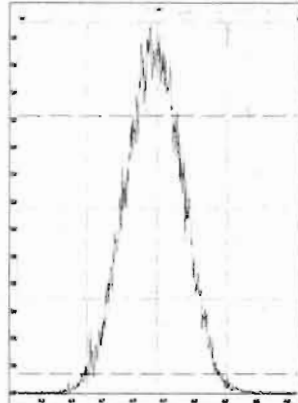
M 430.9728 R 10684



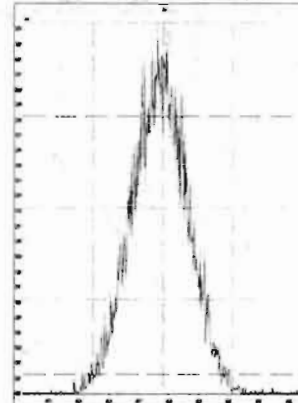
M 442.9728 R 10637



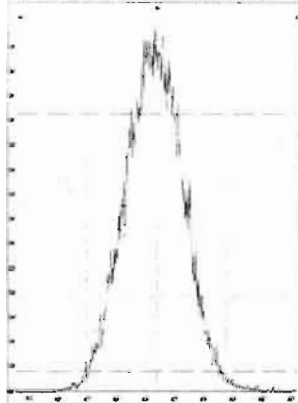
M 454.9728 R 11259



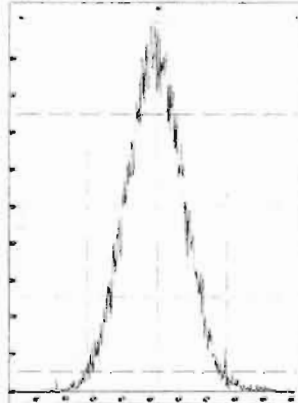
M 466.9728 R 11261



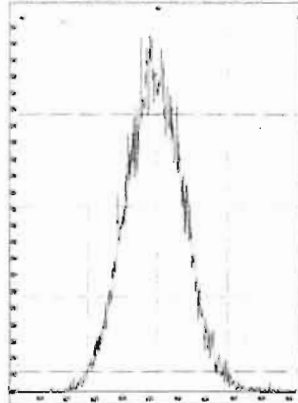
M 480.9696 R 10728



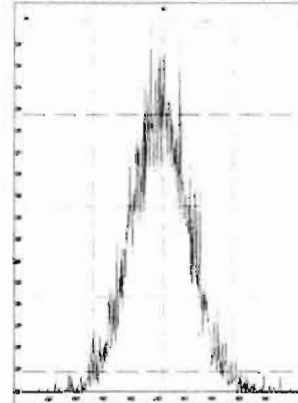
M 492.9696 R 10867



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 0102/12/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

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

Response Factor: 0.9819

RRF SD: 0.0791981, Relative SD: 8.06581

Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	0.250	0.86	NO	17.23	3.04e2	1.39e5	0.223	0.876
2	2 200211D2_4	0.500	0.66	NO	17.22	6.08e2	1.13e5	0.549	1.08
3	3 200211D2_5	2.00	0.73	NO	17.23	2.63e3	1.30e5	2.06	1.01
4	4 200211D2_6	10.0	0.75	NO	17.23	1.15e4	1.25e5	9.33	0.916
5	5 200211D2_7	40.0	0.74	NO	17.23	5.76e4	1.51e5	39.0	0.957
6	6 200211D2_8	300	0.73	NO	17.23	4.81e5	1.52e5	321	1.05

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 1.08271

RRF SD: 0.0939058, Relative SD: 8.67318

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.72	NO	17.20	1.39e5	1.13e5	113	1.23
2	2 200211D2_4	100	0.71	NO	17.20	1.13e5	1.14e5	91.7	0.993
3	3 200211D2_5	100	0.71	NO	17.20	1.30e5	1.34e5	89.3	0.967
4	4 200211D2_6	100	0.75	NO	17.20	1.25e5	1.15e5	101	1.09
5	5 200211D2_7	100	0.71	NO	17.20	1.51e5	1.35e5	103	1.11
6	6 200211D2_8	100	0.72	NO	17.20	1.52e5	1.38e5	102	1.11

Vista Analytical Laboratory VG-9

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 7.02167e-017, Relative SD: 7.02167e-015

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.70	NO	15.17	1.13e5	1.13e5	100	1.00
2	2 200211D2_4	100	0.71	NO	15.18	1.14e5	1.14e5	100	1.00
3	3 200211D2_5	100	0.74	NO	15.17	1.34e5	1.34e5	100	1.00
4	4 200211D2_6	100	0.72	NO	15.17	1.15e5	1.15e5	100	1.00
5	5 200211D2_7	100	0.73	NO	15.17	1.35e5	1.35e5	100	1.00
6	6 200211D2_8	100	0.73	NO	15.17	1.38e5	1.38e5	100	1.00

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 1026.38

RRF SD: 123.841, Relative SD: 12.0658

Response type: External Std, Area

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.79	NO	15.78	1.04e5		102	1040
2	2 200211D2_4	100	0.77	NO	15.78	8.57e4		83.5	857
3	3 200211D2_5	100	0.79	NO	15.78	9.44e4		92.0	944
4	4 200211D2_6	100	0.79	NO	15.78	9.87e4		96.1	987
5	5 200211D2_7	100	0.78	NO	15.78	1.13e5		110	1130
6	6 200211D2_8	100	0.78	NO	15.78	1.20e5		116	1200

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

#	Name	Resp	RA	n/y	RRF M...	w/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.982	1.000	17.23	0.22305	89.2	0.0931
2	2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	113.42	113	0.342
3	3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	100.00	100	0.371
4	4 13C-1,2,3,4-TCDD	1.04e5	0.79	NO	1030	1.000	15.78	101.65	102	0.291

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	6.08e2	0.66	NO	0.982	1.000	17.22	0.54947	110	0.147
2	2 13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	91.711	91.7	0.381
3	3 13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	100.00	100	0.412
4	4 13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1030	1.000	15.78	83.528	83.5	0.324

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.63e3	0.73	NO	0.982	1.000	17.23	2.0631	103	0.121
2	2 13C-2,3,7,8-TCDF	1.30e5	0.71	NO	1.08	1.000	17.20	89.279	89.3	0.292
3	3 13C-1,2,3,4-TCDF	1.34e5	0.74	NO	1.00	1.000	15.17	100.00	100	0.316
4	4 13C-1,2,3,4-TCDD	9.44e4	0.79	NO	1030	1.000	15.78	92.007	92.0	0.336

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.15e4	0.75	NO	0.982	1.000	17.23	9.3257	93.3	0.185
2	2 13C-2,3,7,8-TCDF	1.25e5	0.75	NO	1.08	1.000	17.20	100.76	101	0.364
3	3 13C-1,2,3,4-TCDF	1.15e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.394
4	4 13C-1,2,3,4-TCDD	9.87e4	0.79	NO	1030	1.000	15.78	96.149	96.1	0.331

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	5.76e4	0.74	NO	0.982	1.000	17.23	38.981	97.5	0.158
2	2 13C-2,3,7,8-TCDF	1.51e5	0.71	NO	1.08	1.000	17.20	102.61	103	0.300
3	3 13C-1,2,3,4-TCDF	1.35e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.325
4	4 13C-1,2,3,4-TCDD	1.13e5	0.78	NO	1030	1.000	15.78	110.19	110	0.311

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	4.81e5	0.73	NO	0.982	1.000	17.23	321.06	107	0.243
2	2 13C-2,3,7,8-TCDF	1.52e5	0.72	NO	1.08	1.000	17.20	102.22	102	0.295
3	3 13C-1,2,3,4-TCDF	1.38e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.319
4	4 13C-1,2,3,4-TCDD	1.20e5	0.78	NO	1030	1.000	15.78	116.47	116	0.322

Dataset: Untitled

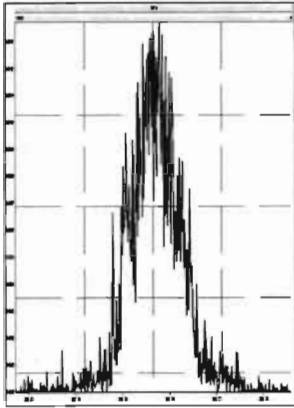
Last Altered: Wednesday, February 12, 2020 10:45:15 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:45:35 Pacific Standard Time

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

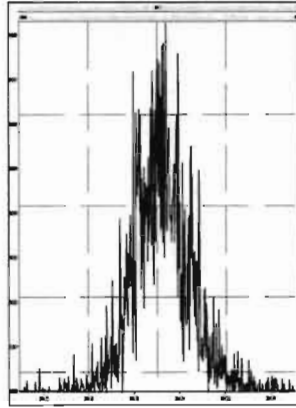
Compound name: 2,3,7,8-TCDF

	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

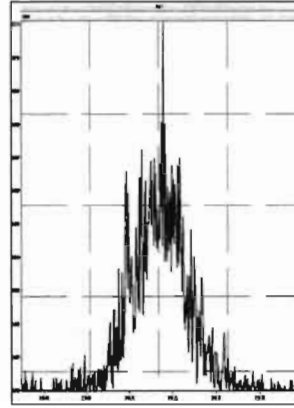
M 292.9824 R 14754



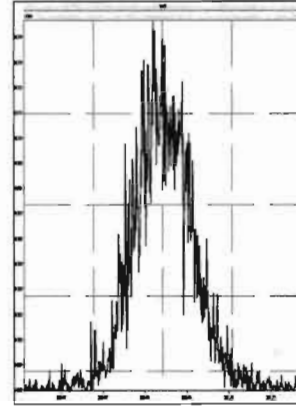
M 304.9824 R 15978



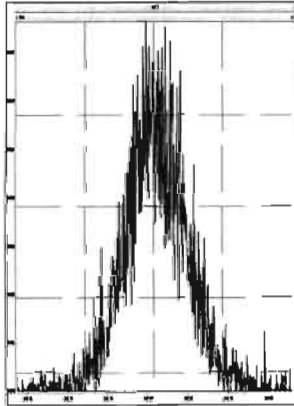
M 318.9792 R 15503



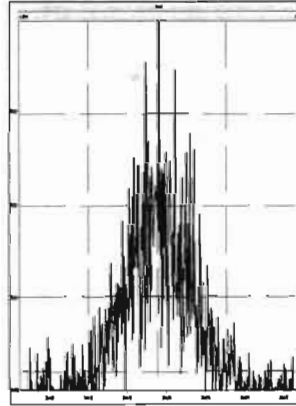
M 330.9792 R 11737



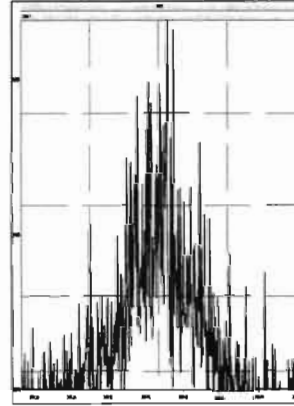
M 342.9792 R 11796



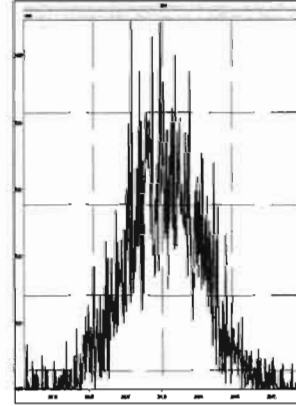
M 354.9792 R 15966

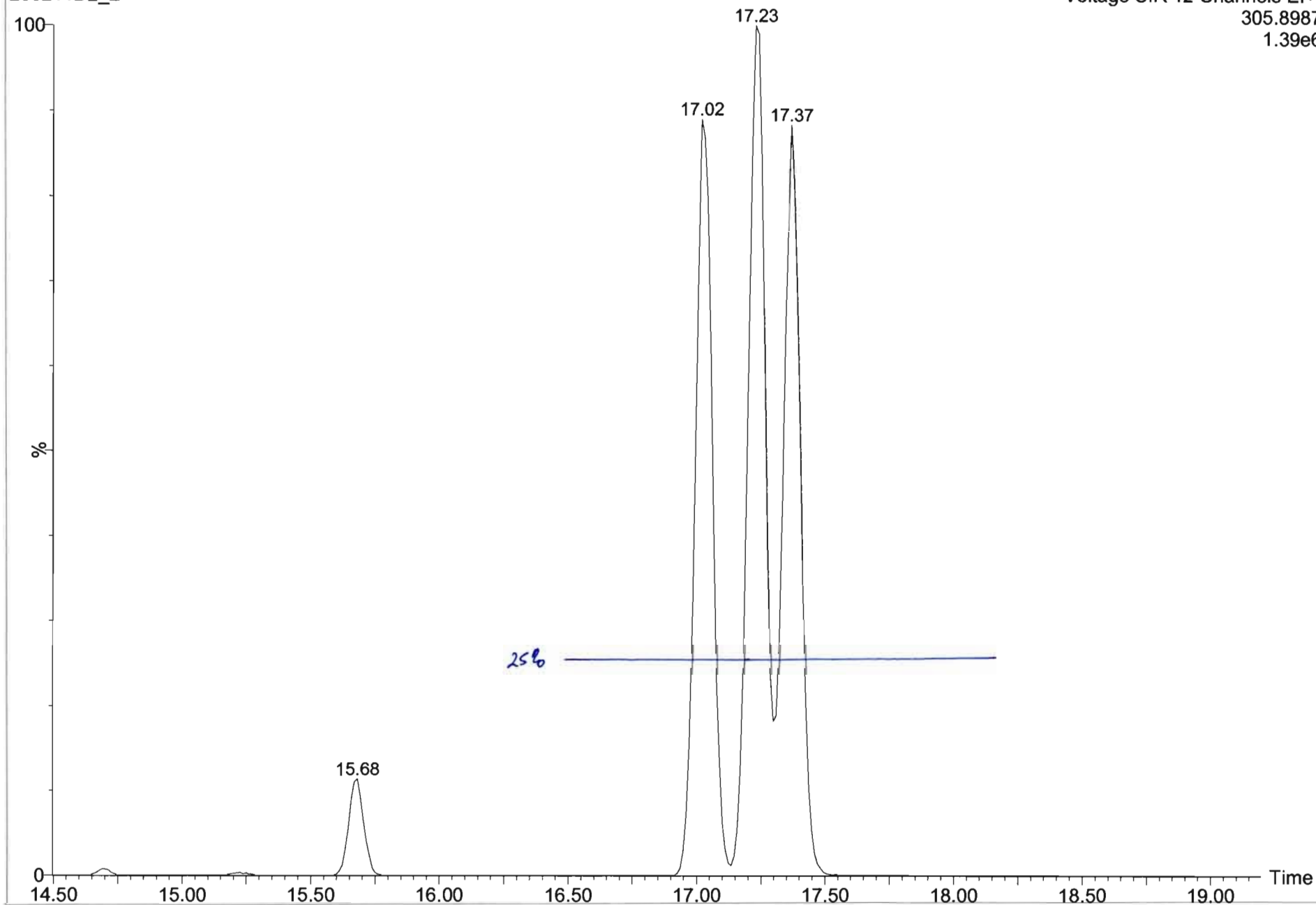


M 366.9792 R 28256



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

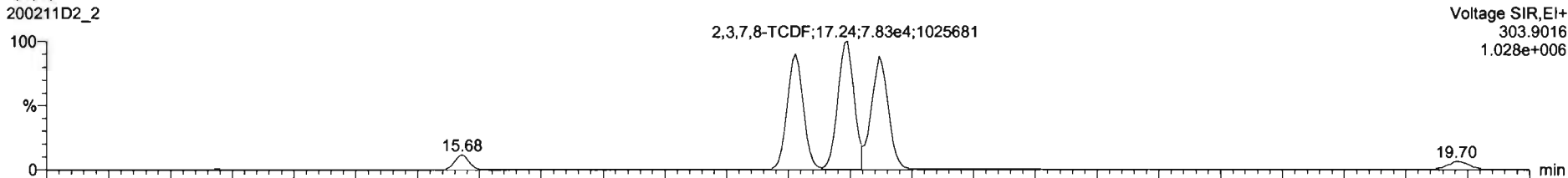
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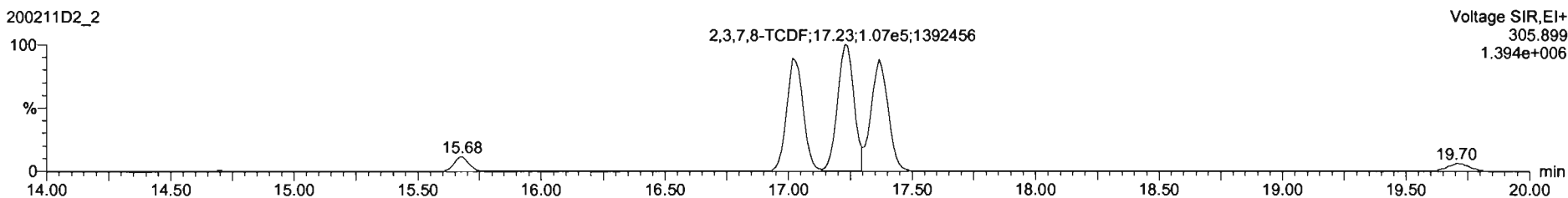
2,3,7,8-TCDF

200211D2_2



Voltage SIR,EI+
303.9016
1.028e+006

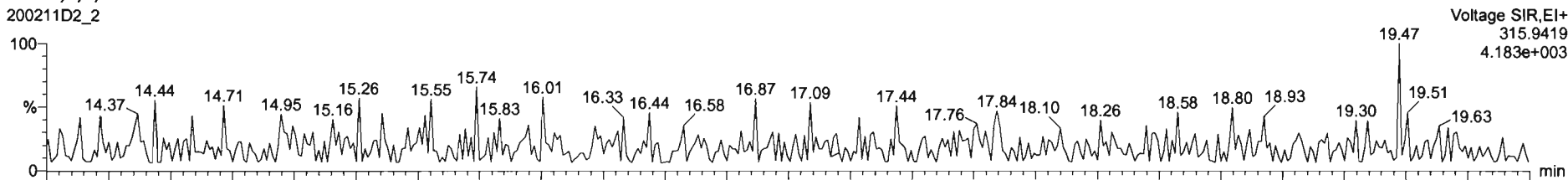
200211D2_2



Voltage SIR,EI+
305.899
1.394e+006

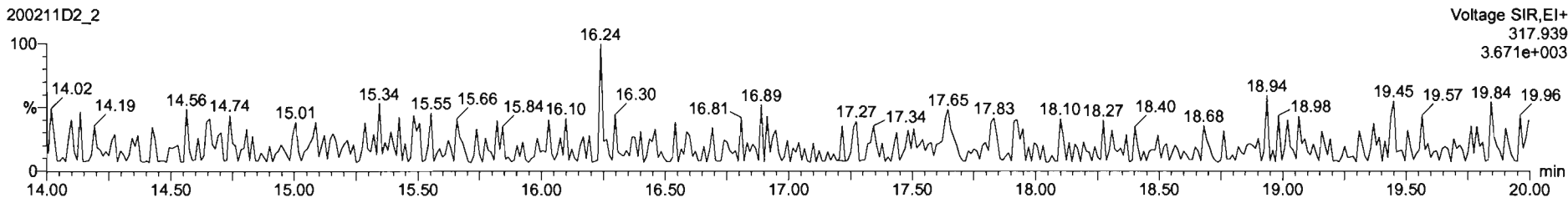
13C-2,3,7,8-TCDF

200211D2_2



Voltage SIR,EI+
315.9419
4.183e+003

200211D2_2



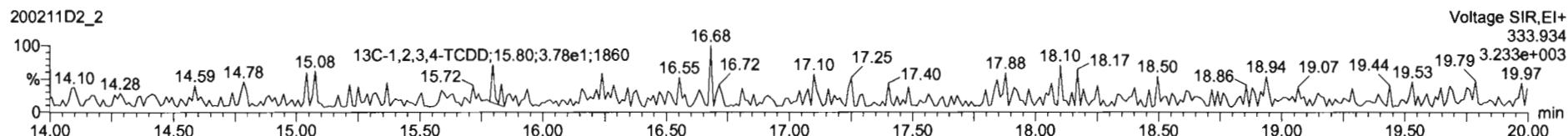
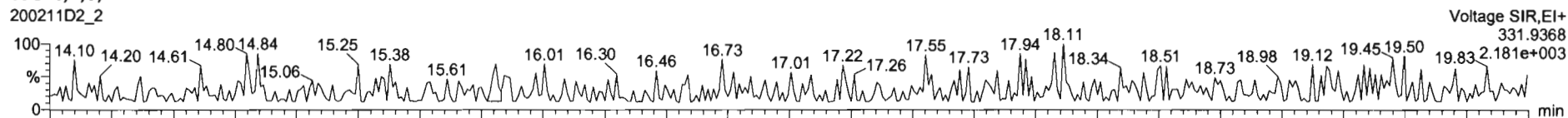
Voltage SIR,EI+
317.939
3.671e+003

Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

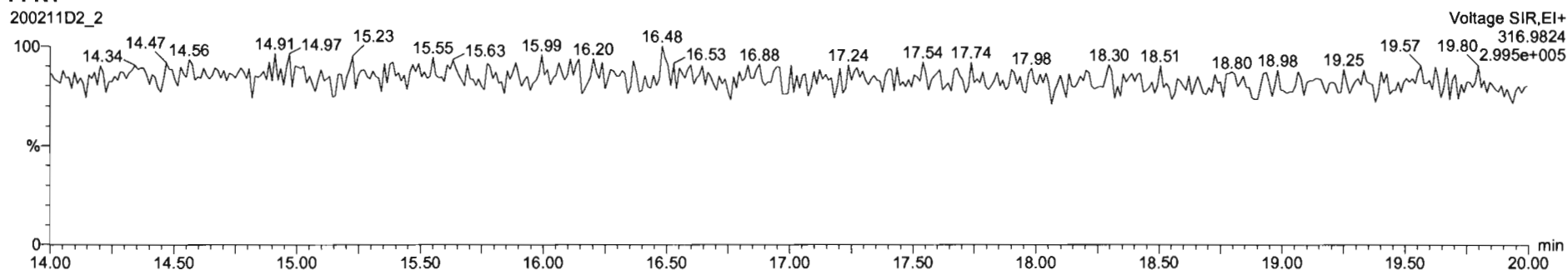
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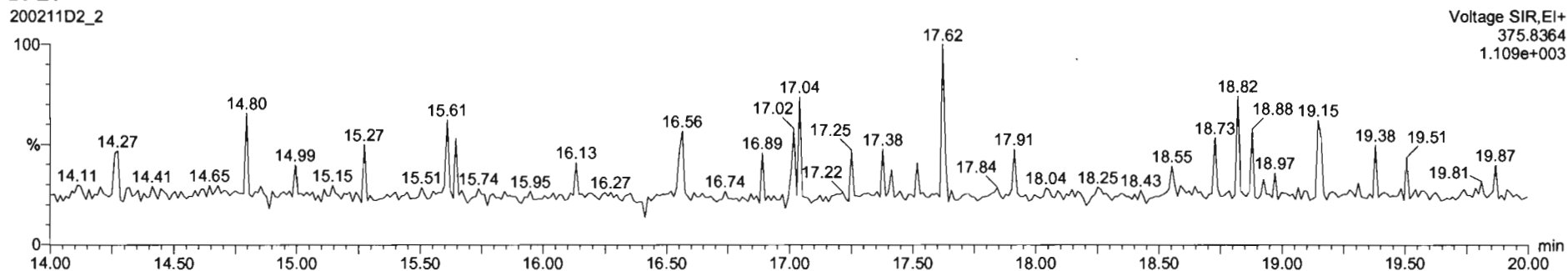
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

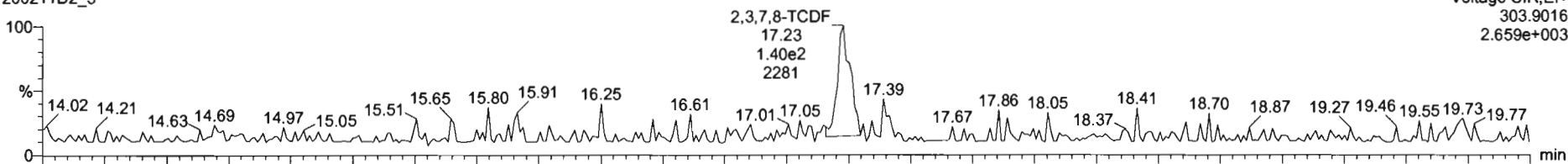
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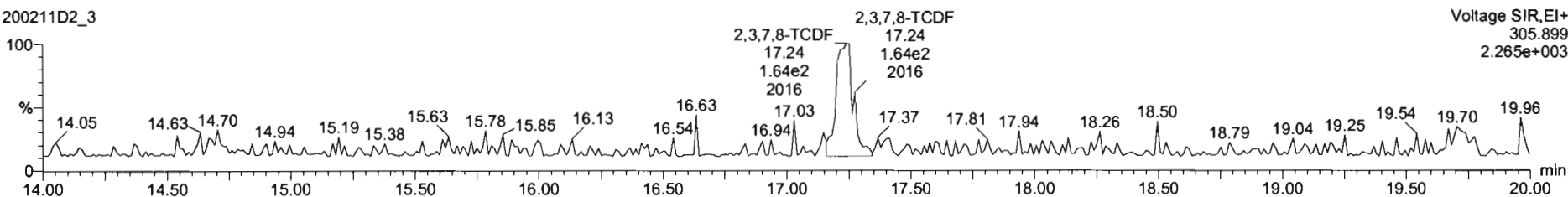
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2,3,7,8-TCDF

200211D2_3

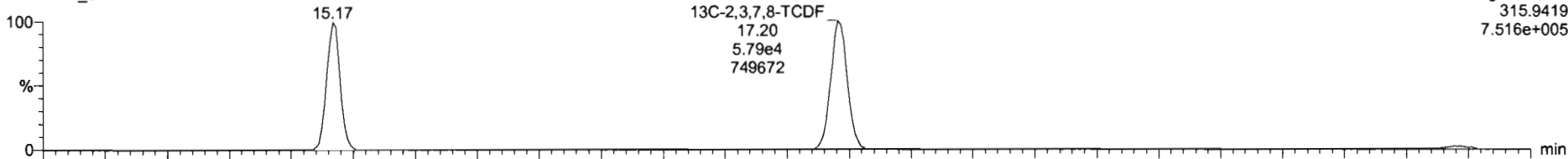


200211D2_3

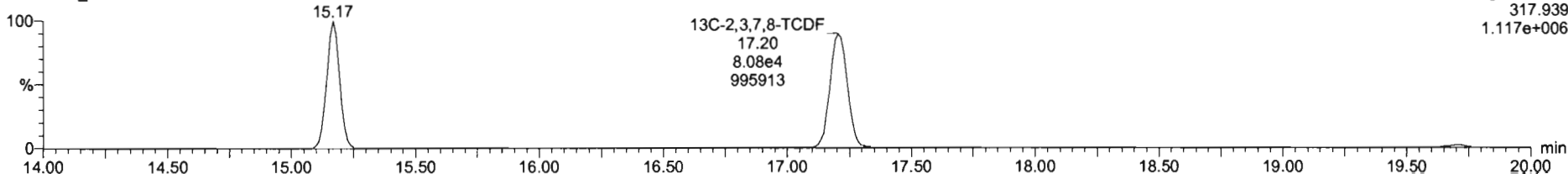


13C-2,3,7,8-TCDF

200211D2_3



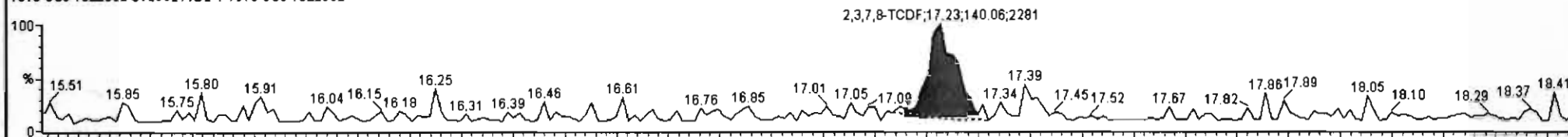
200211D2_3



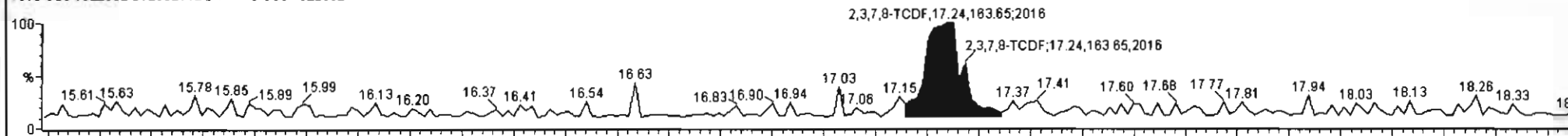
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.98	1.000	17.23	1.001	0.223	89.2	0.0831	0.223
2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	1.134	113	113	0.342	
3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	1.000	100	100	0.371	
4 13C-1,2,3,4-TCDF	1.04e5	0.79	NO	1026.38	1.000	15.78	0.000	102	102	0.291	
5 PFOS					1.000						
6 DPE1					1.000						

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

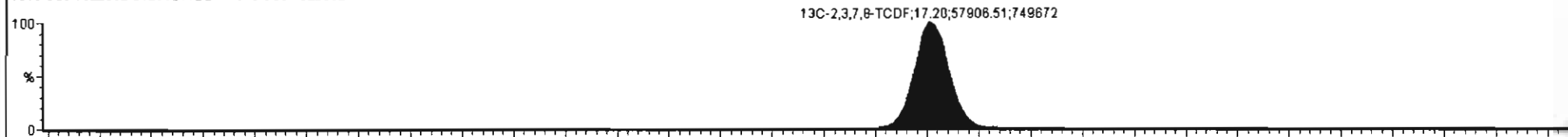
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



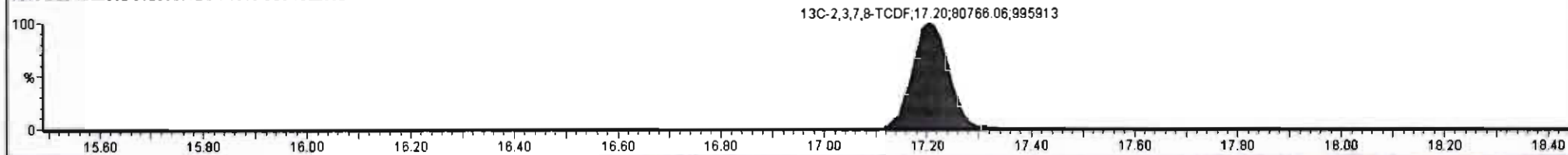
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



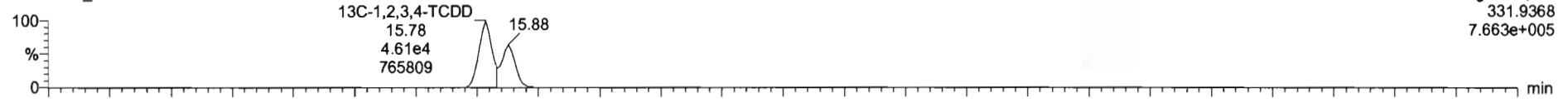
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

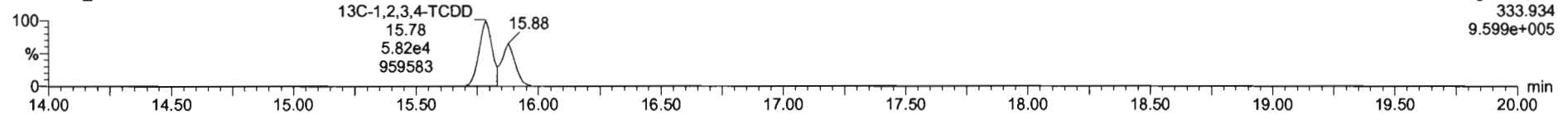
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13C-1,2,3,4-TCDD

200211D2_3

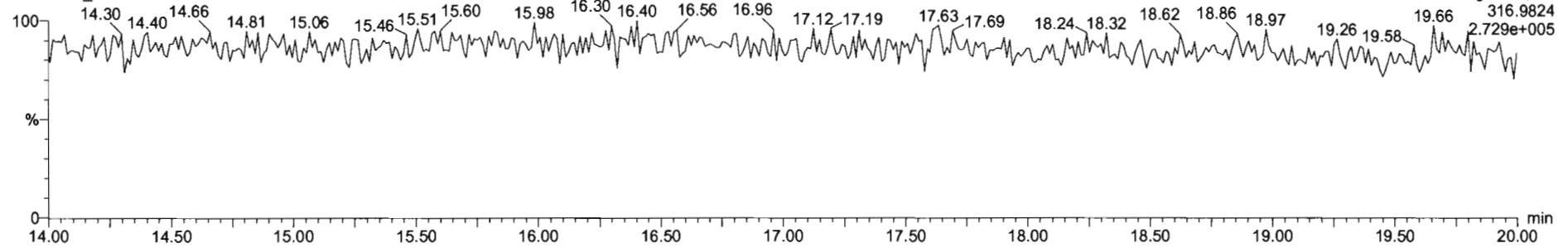


200211D2_3



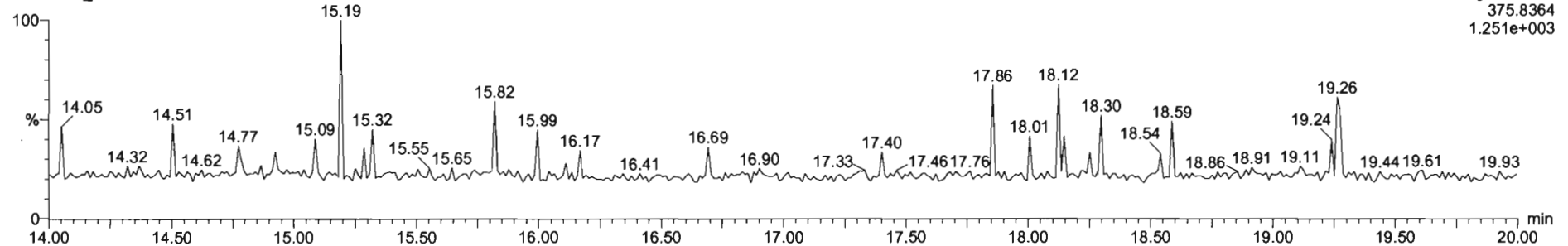
PFK1

200211D2_3



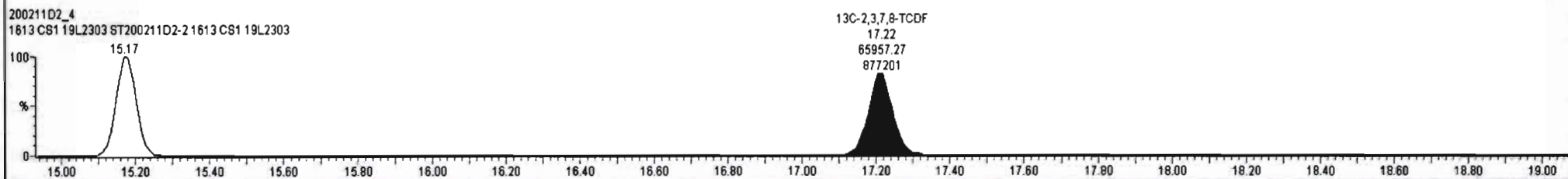
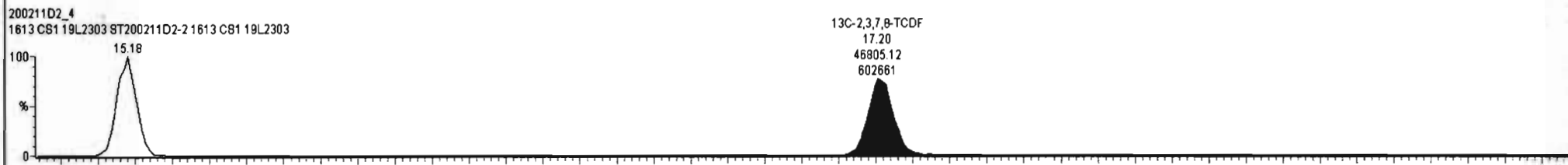
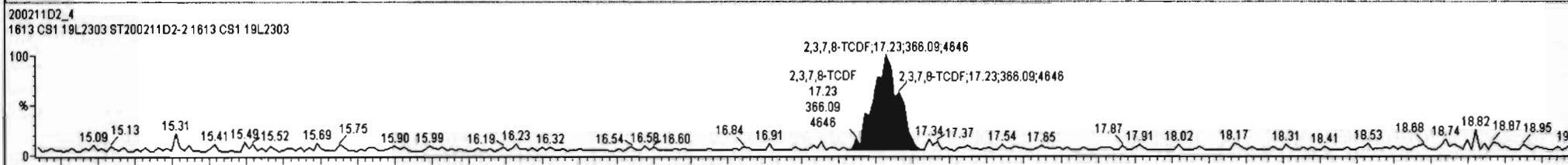
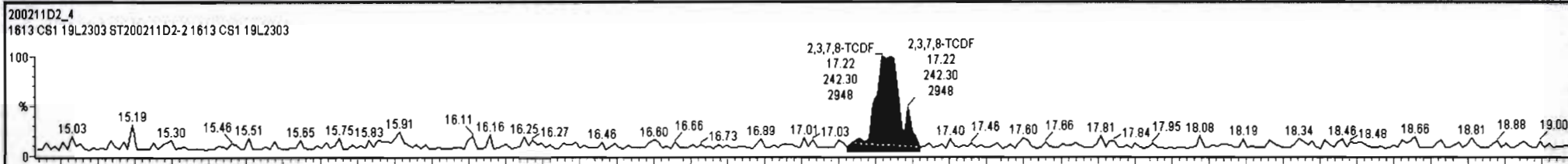
DPE1

200211D2_3



#	Name	Resp	RA	ruy	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EWPC
1	2,3,7,8-TCDF	8.09e2	0.66	NO	0.98	1.000	17.22	1.001	0.548	110	0.147	0.549
2	13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	1.133	91.7	91.7	0.381	
3	13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	1.000	100	100	0.412	
4	13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1026.38	1.000	15.78	0.000	83.5	83.5	0.324	
5	PFK1					1.000						
6	DPF1					1.000						

#	Name	RT	int Resp	m2 Resp	RA	ruy	EWPC	Conc.
1								



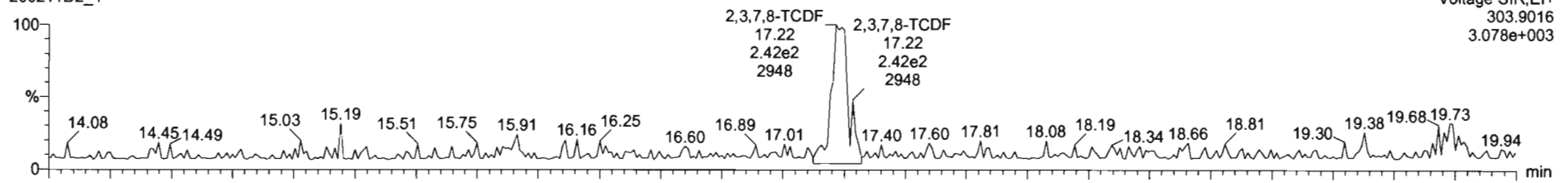
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

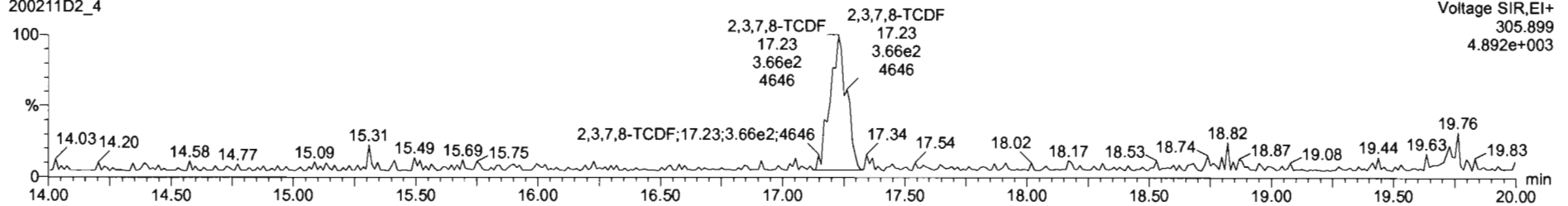
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2,3,7,8-TCDF

200211D2_4

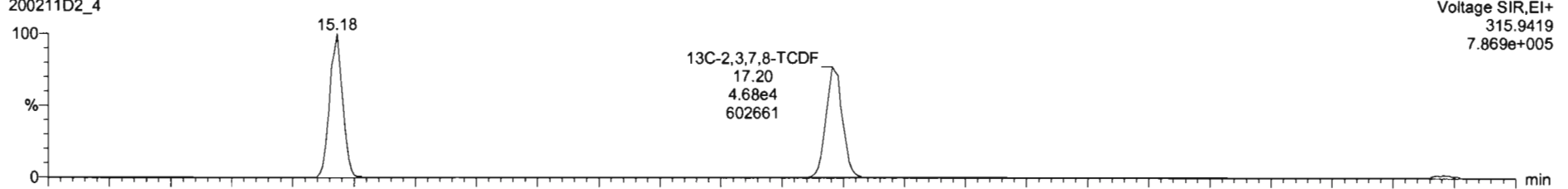


200211D2_4

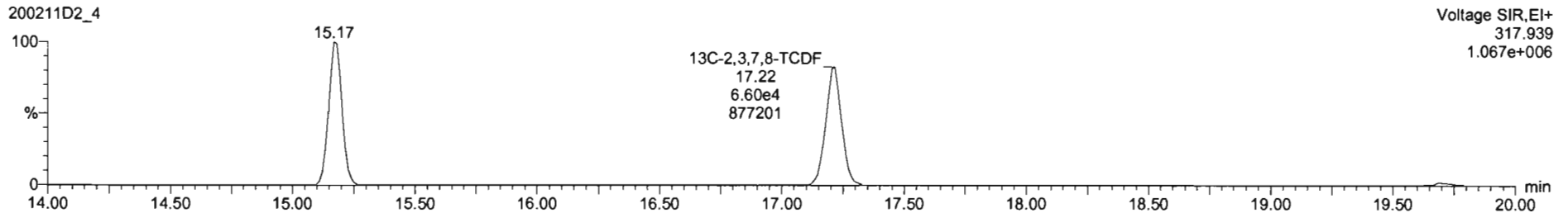


13C-2,3,7,8-TCDF

200211D2_4



200211D2_4



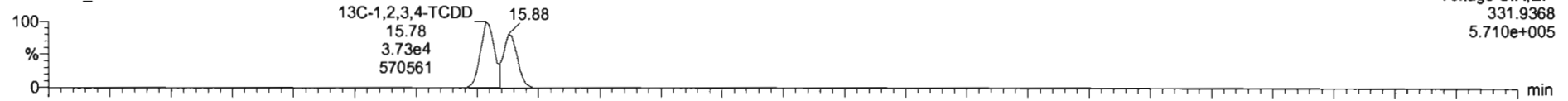
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

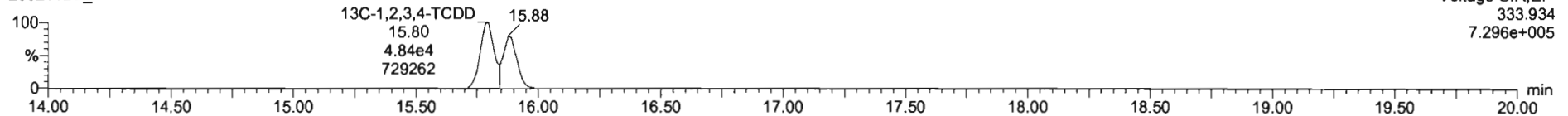
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13C-1,2,3,4-TCDD

200211D2_4

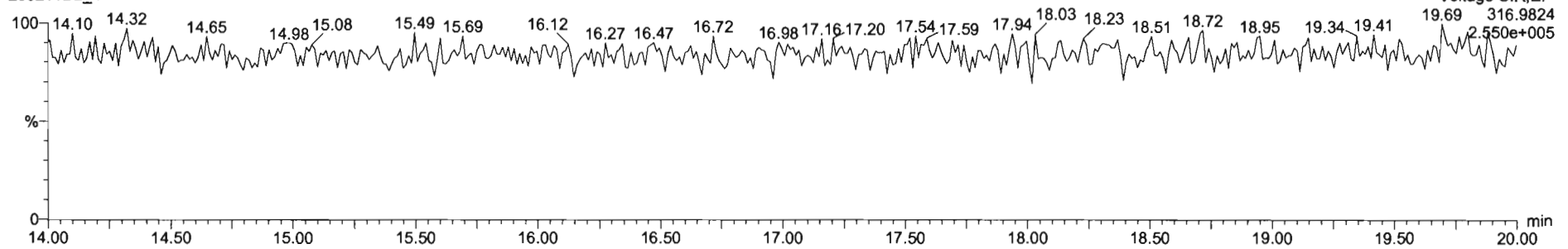


200211D2_4



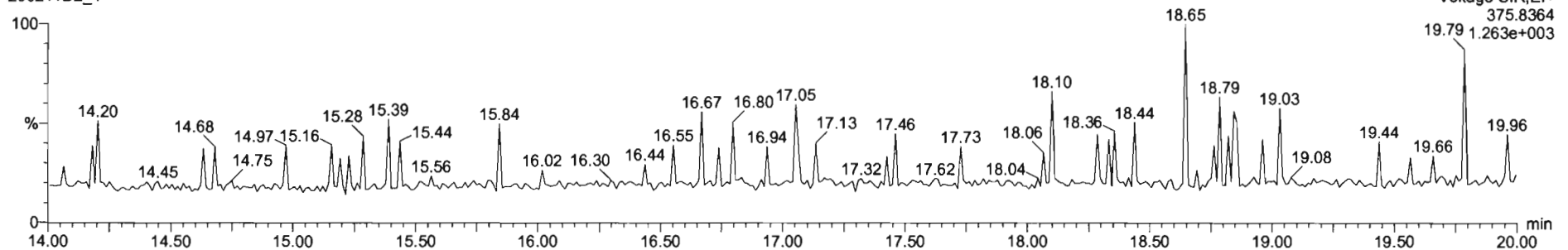
PFK1

200211D2_4



DPE1

200211D2_4



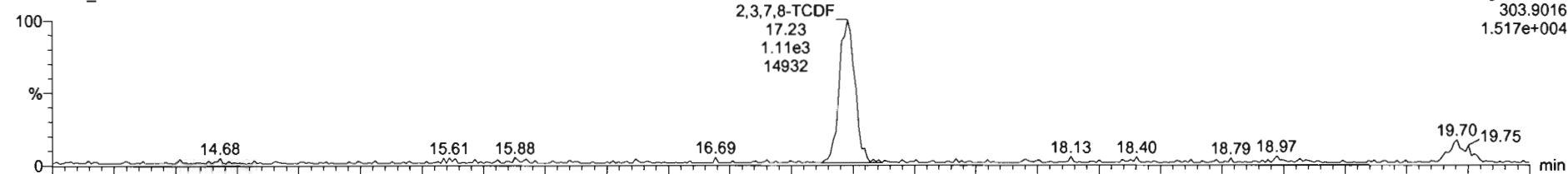
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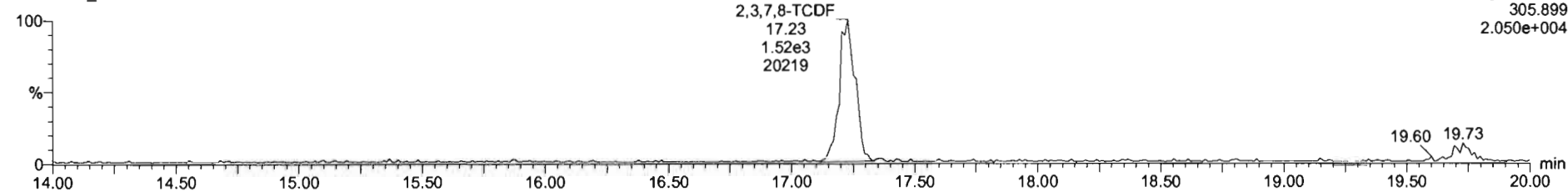
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2,3,7,8-TCDF

200211D2_5

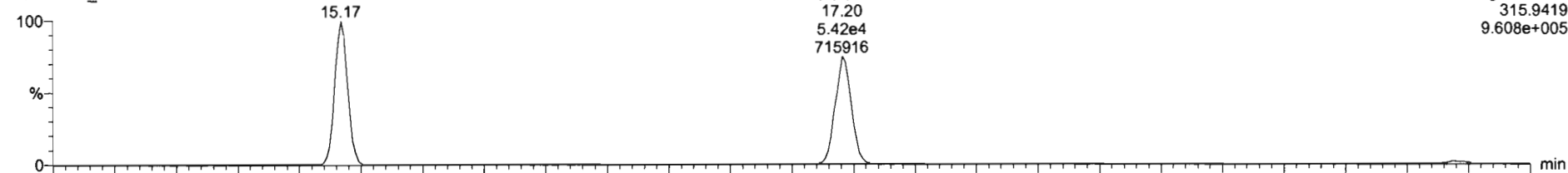


200211D2_5

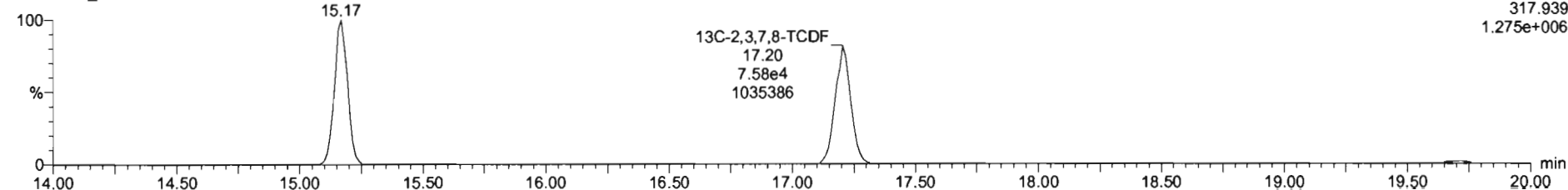


13C-2,3,7,8-TCDF

200211D2_5



200211D2_5

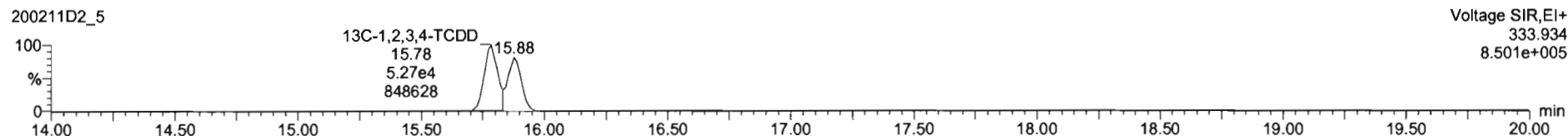
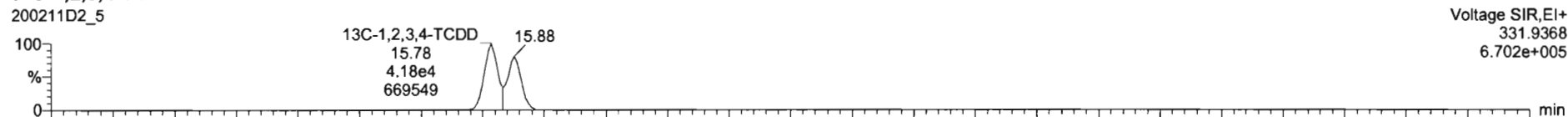


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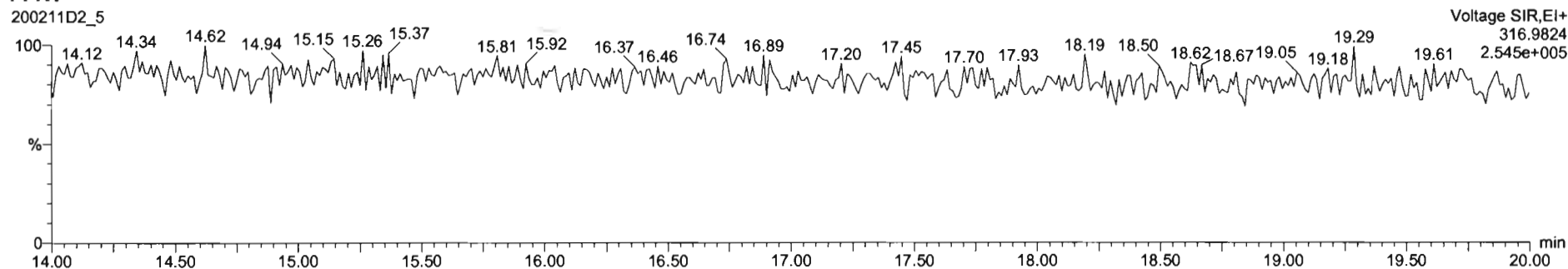
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

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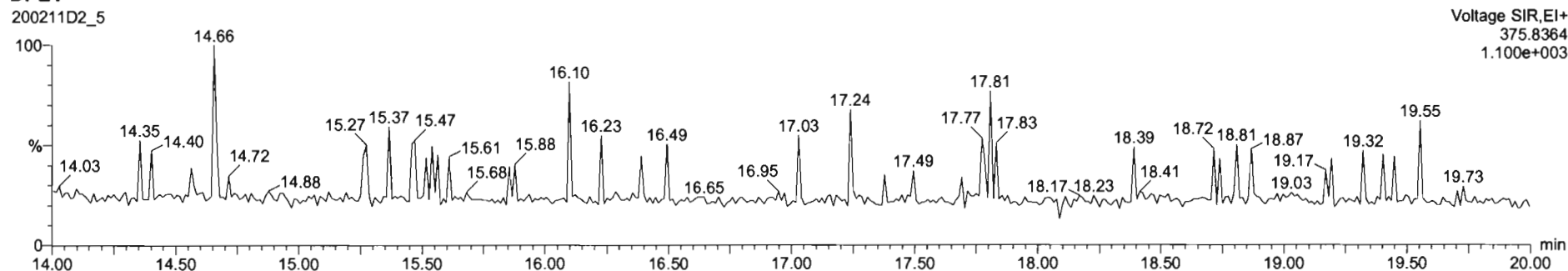
13C-1,2,3,4-TCDD



PFK1



DPE1



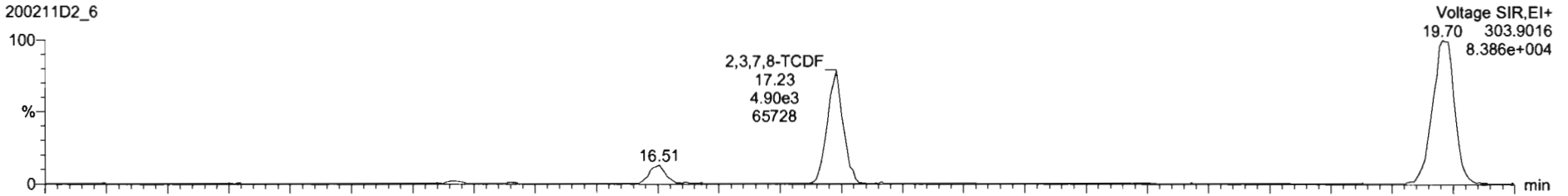
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

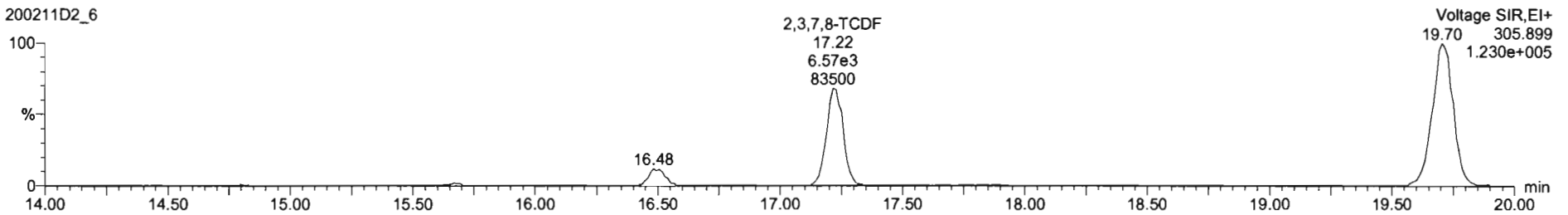
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2,3,7,8-TCDF

200211D2_6

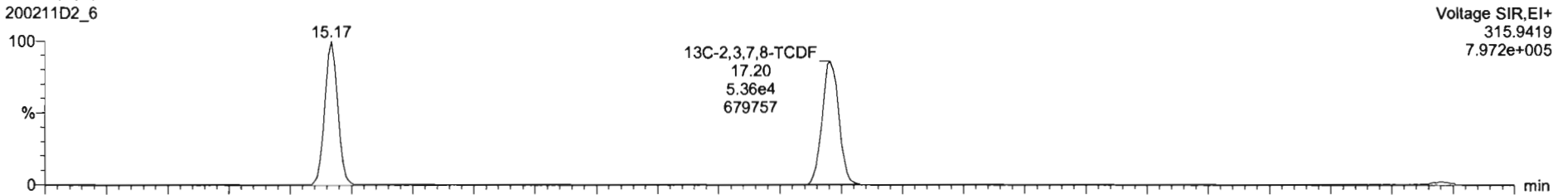


200211D2_6

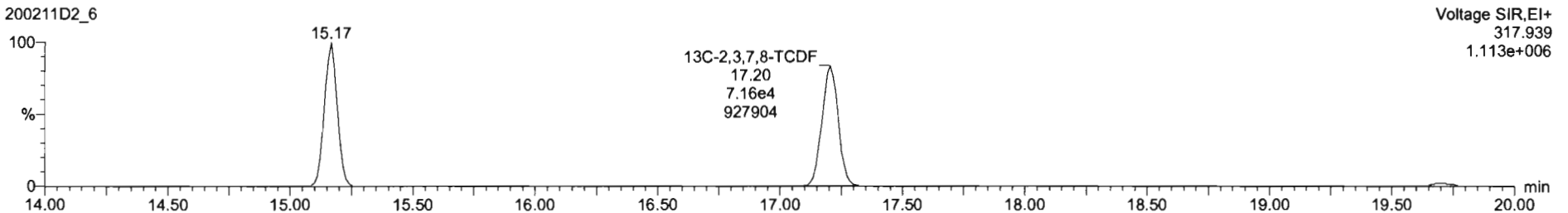


13C-2,3,7,8-TCDF

200211D2_6



200211D2_6



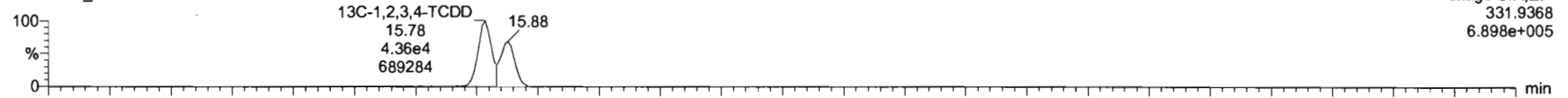
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

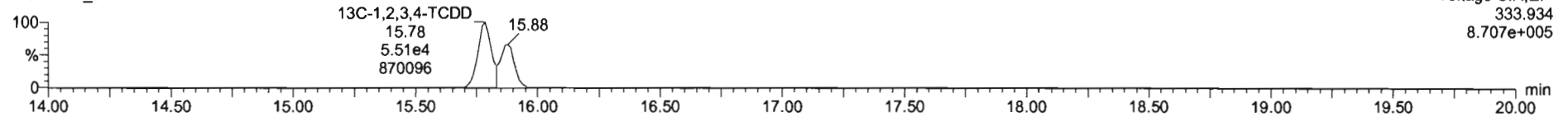
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13C-1,2,3,4-TCDD

200211D2_6

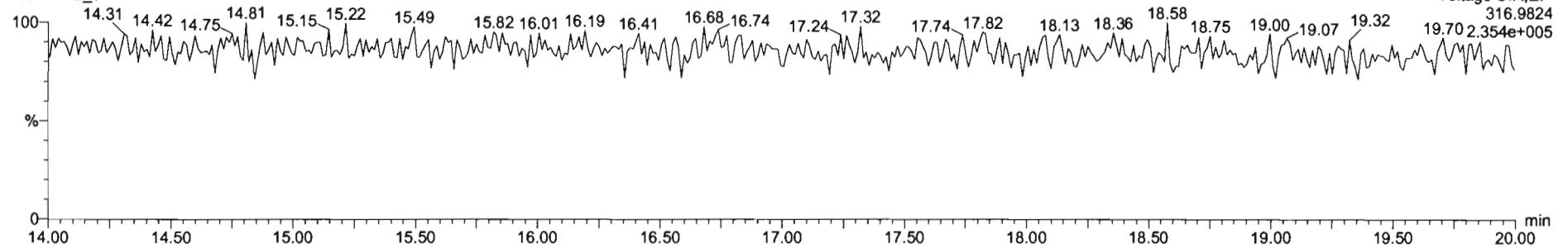


200211D2_6



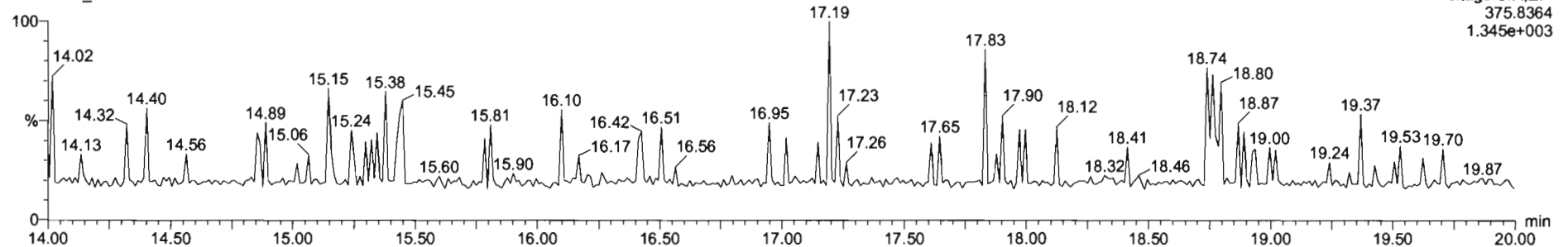
PFK1

200211D2_6



DPE1

200211D2_6



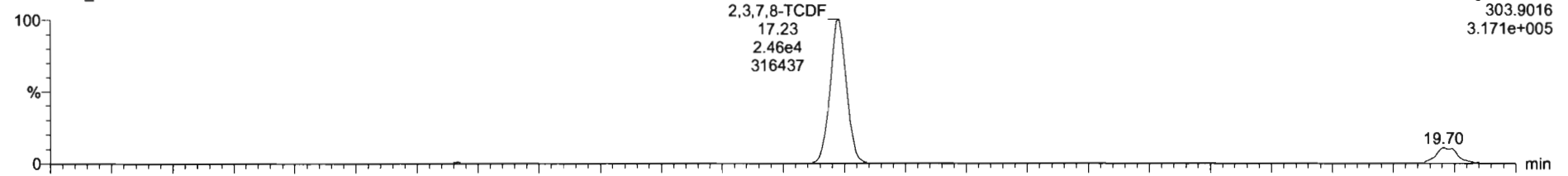
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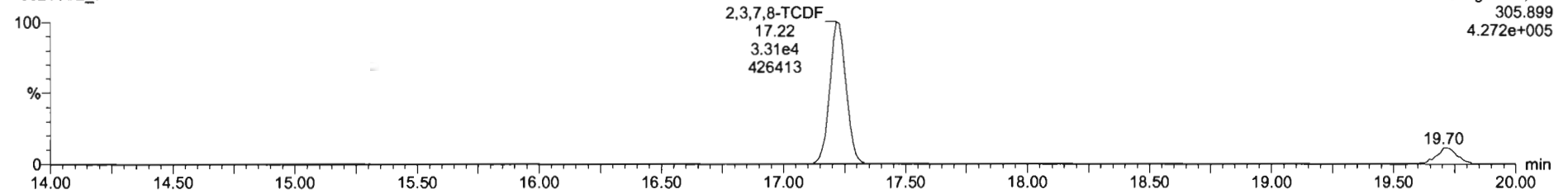
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2,3,7,8-TCDF

200211D2_7

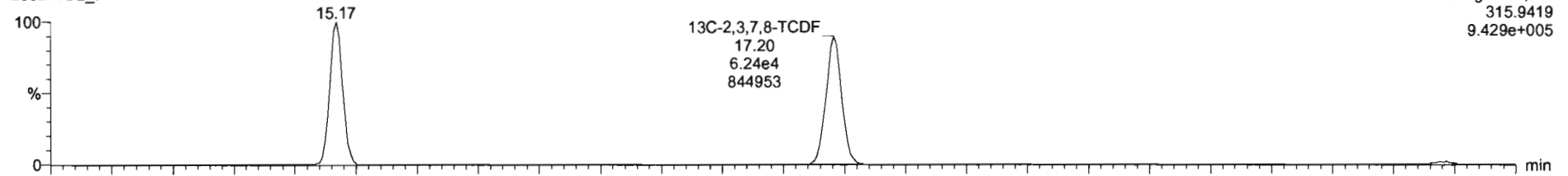


200211D2_7

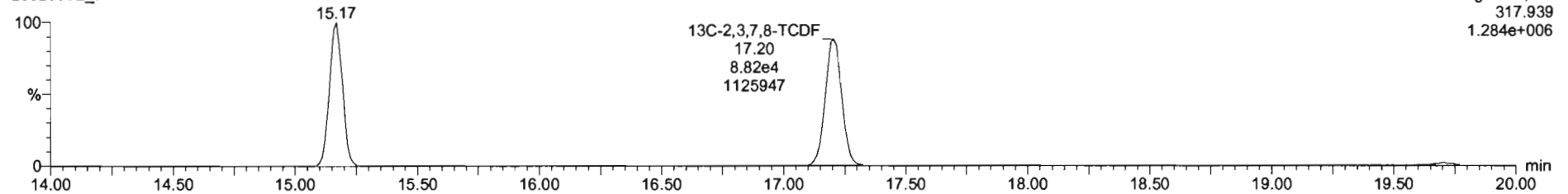


13C-2,3,7,8-TCDF

200211D2_7



200211D2_7



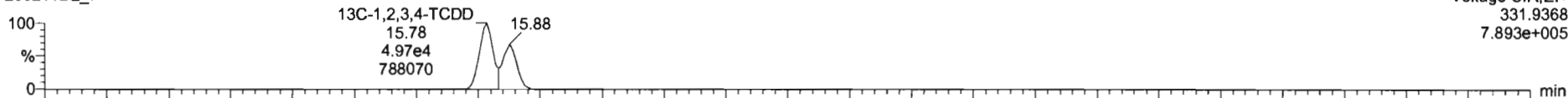
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

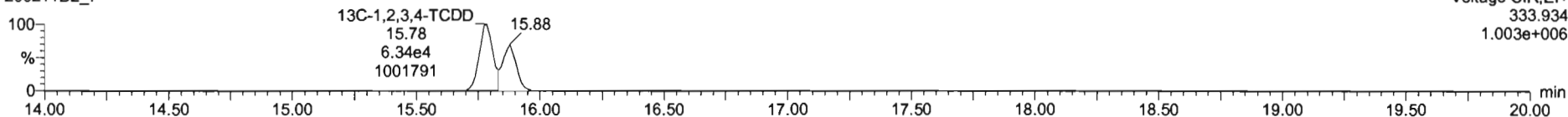
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13C-1,2,3,4-TCDD

200211D2_7

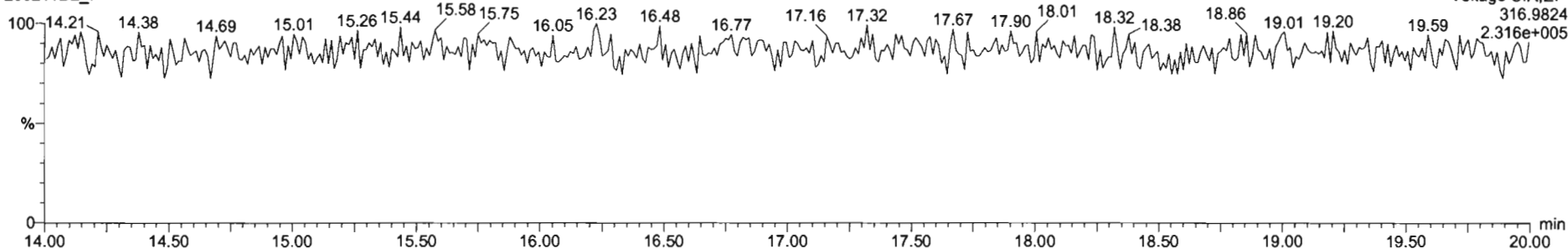


200211D2_7



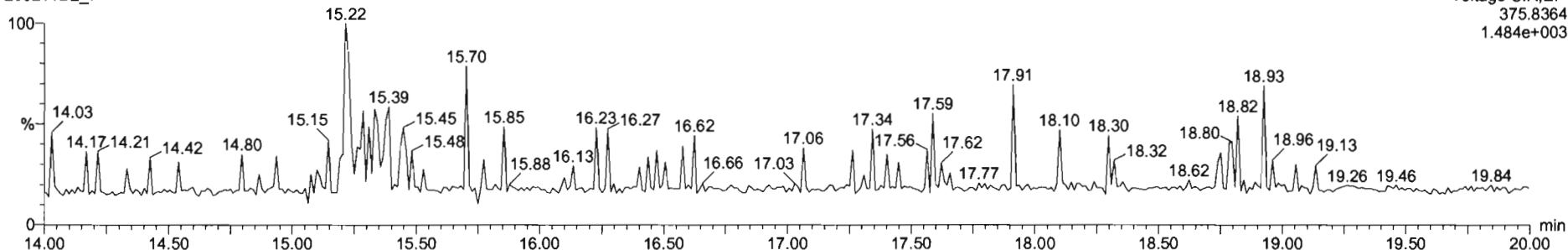
PFK1

200211D2_7



DPE1

200211D2_7



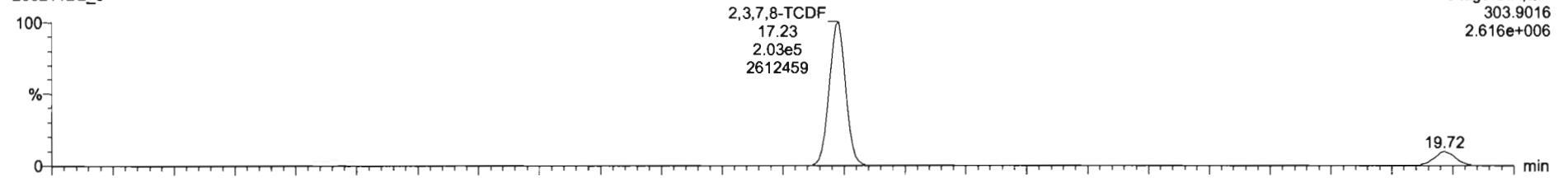
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

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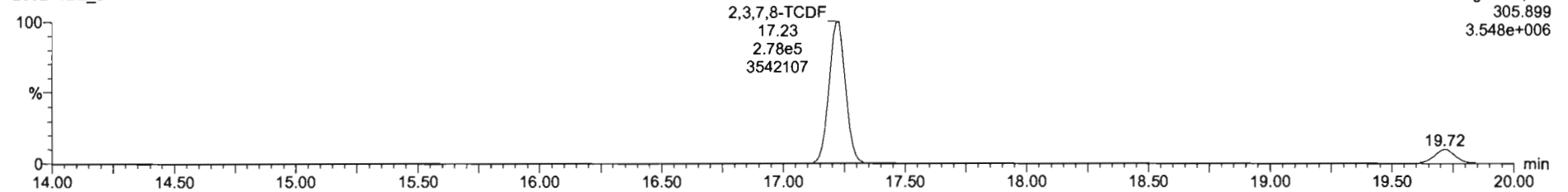
2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
303.9016
2.616e+006

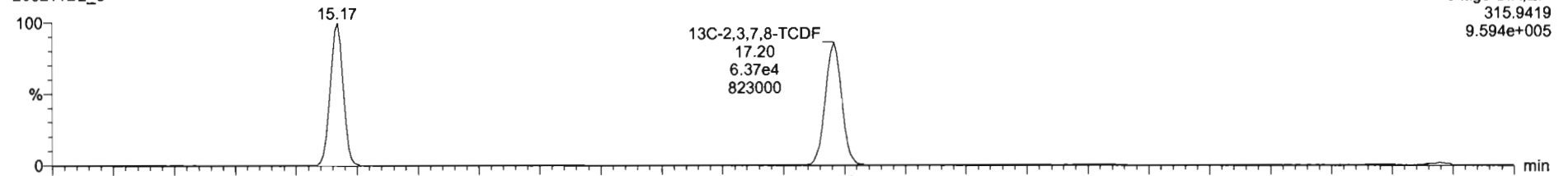
200211D2_8



Voltage SIR,EI+
305.899
3.548e+006

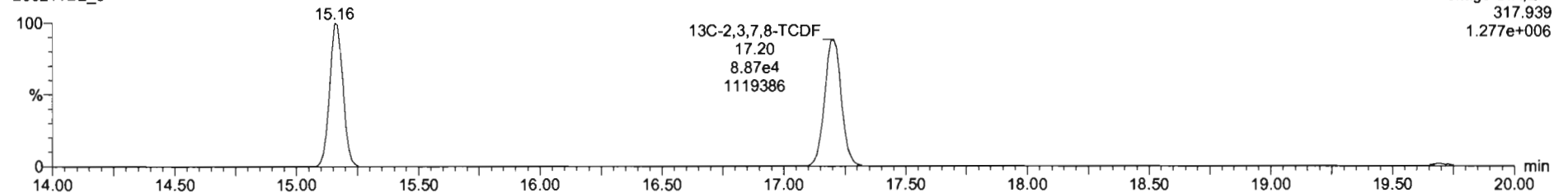
13C-2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
315.9419
9.594e+005

200211D2_8



Voltage SIR,EI+
317.939
1.277e+006

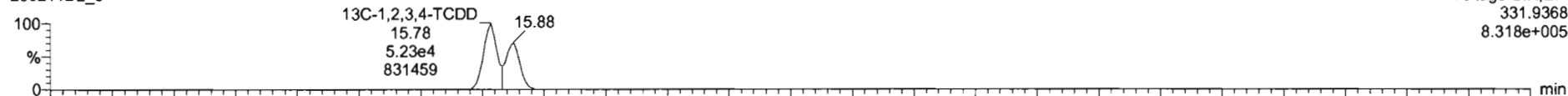
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

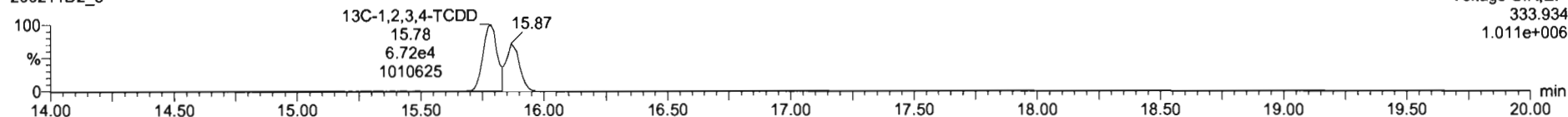
Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200211D2_8

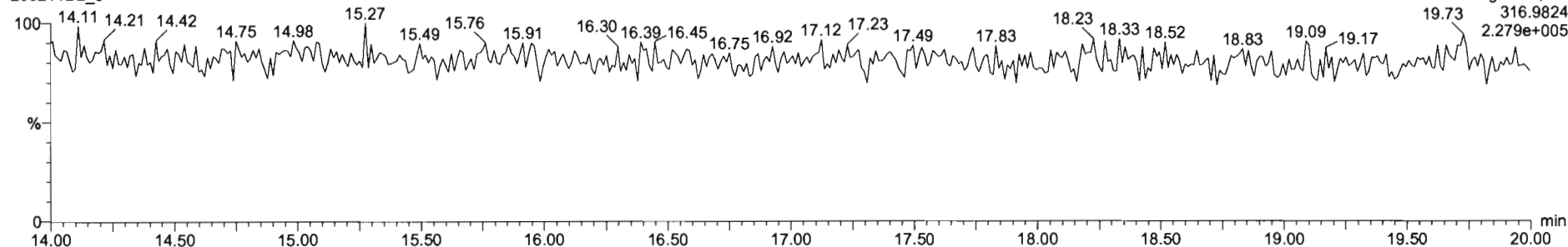


200211D2_8



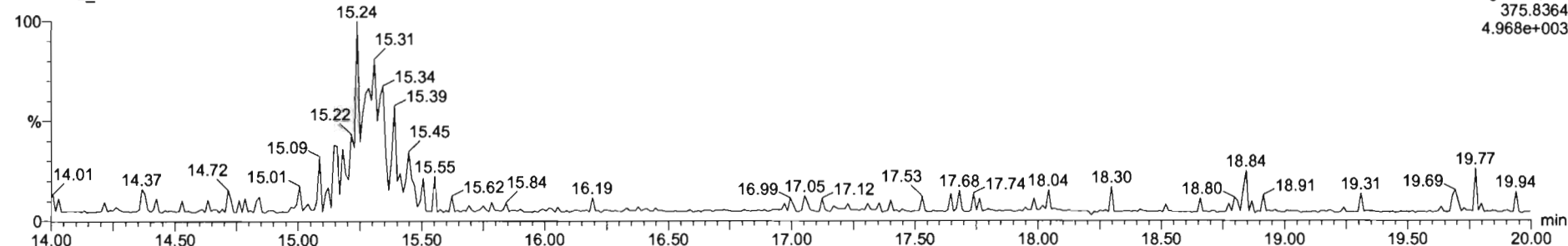
PFK1

200211D2_8

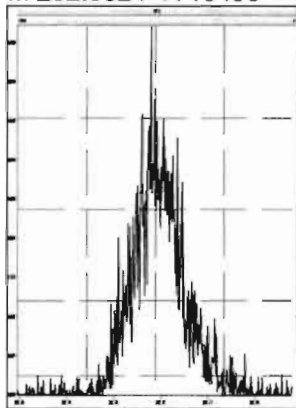


DPE1

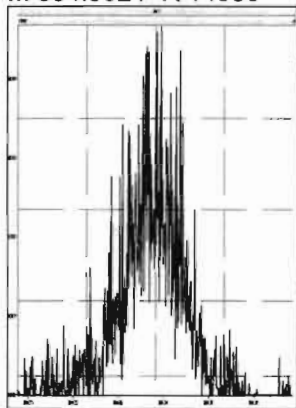
200211D2_8



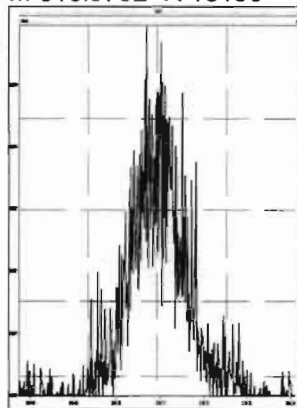
M 292.9824 R 13493



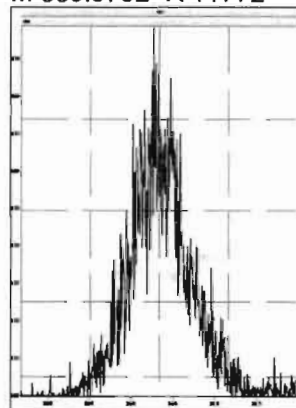
M 304.9824 R 14983



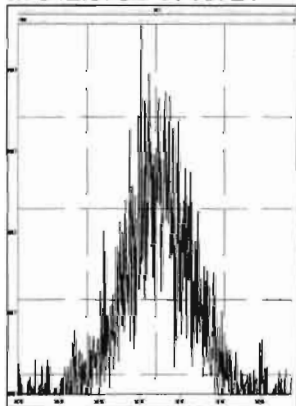
M 318.9792 R 15196



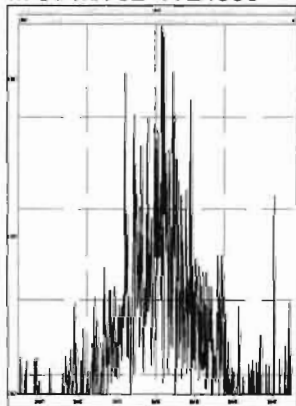
M 330.9792 R 11772



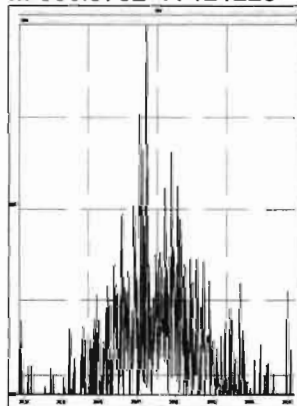
M 342.9792 R 13721



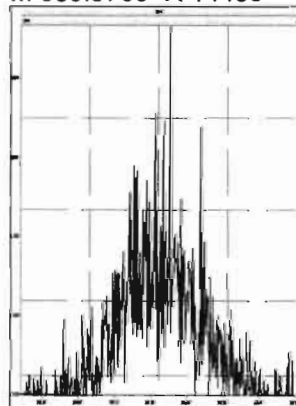
M 354.9792 R 24553



M 366.9792 R 121228



M 380.9760 R 14409



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:52:52 Pacific Standard Time

DB 2/12/20 07:52/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	1.29e4	0.77	NO	0.982	1.000	17.22	10.800	108	0.183
2	13C-2,3,7,8-TCDF	1.22e5	0.73	NO	1.08	1.000	17.20	92.025	92.0	0.305
3	13C-1,2,3,4-TCDF	1.22e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.330
4	13C-1,2,3,4-TCDD	8.99e4	0.76	NO	1030	1.000	15.78	87.563	87.6	0.304

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

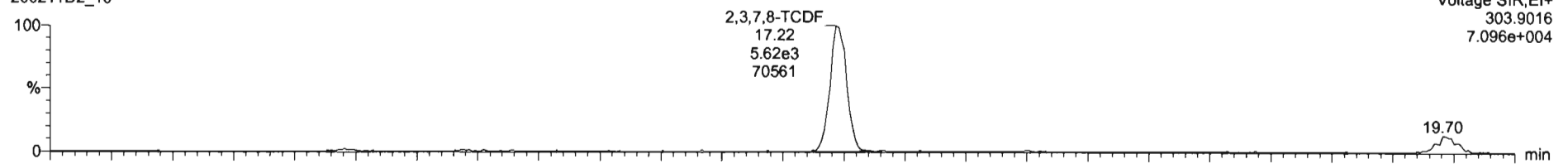
Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

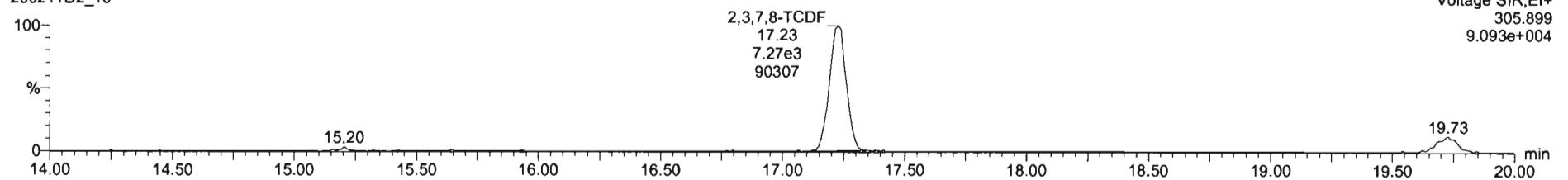
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDF

200211D2_10

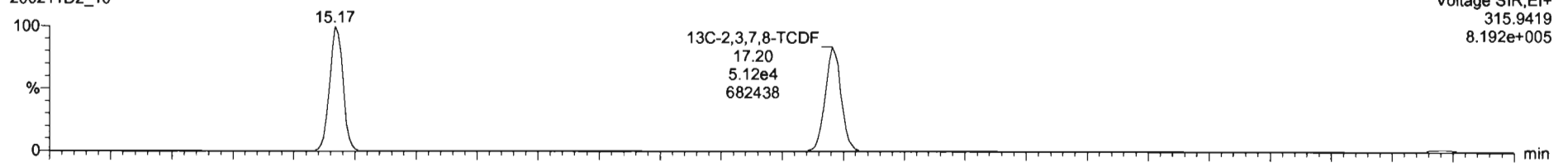


200211D2_10

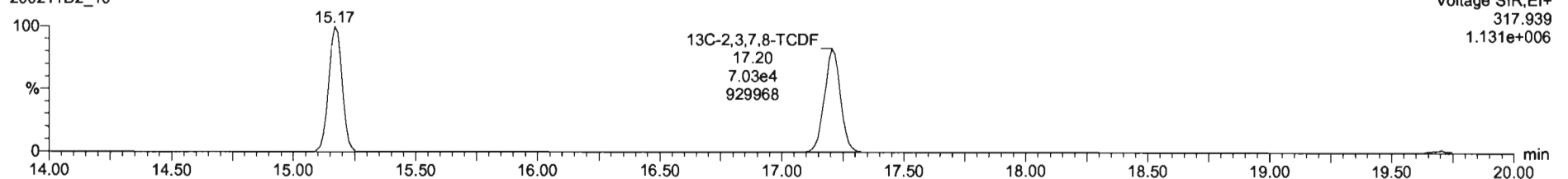


13C-2,3,7,8-TCDF

200211D2_10



200211D2_10



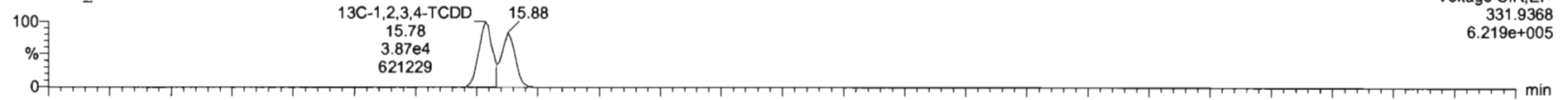
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

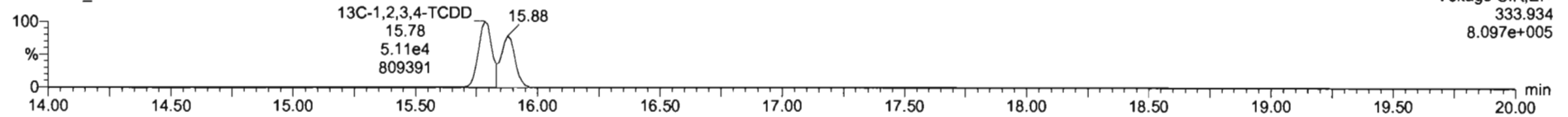
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200211D2_10

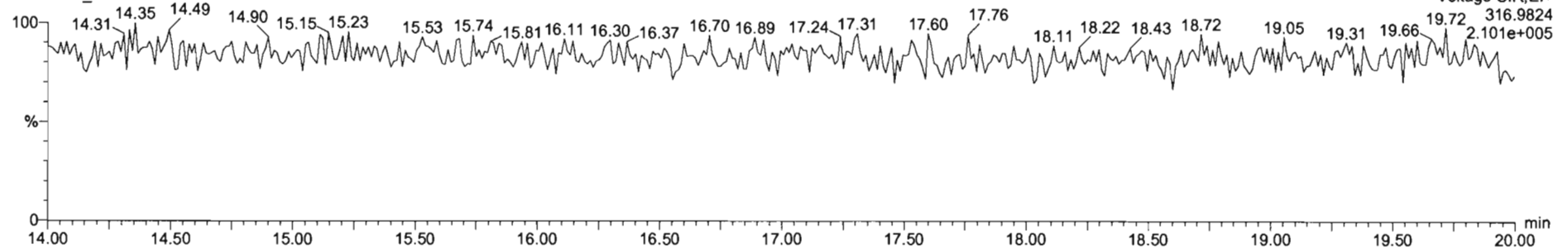


200211D2_10



PFK1

200211D2_10



DPE1

200211D2_10

