



June 11, 2020

**Vista Work Order No. 2000945**

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](mailto: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. 2000945**

### **Case Narrative**

#### **Sample Condition on Receipt:**

Eight sediment samples and two QC water 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 EPA Method 1613 analyses for the QC water samples were assigned to Vista Work Order No. 2000947. The EPA method 1668 analysis of sample "PDI-146SC-A-00-01-200426" was assigned to Vista Work Order No. 2000974.

#### **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.

As requested, a duplicate was performed on sample "PDI-146SC-A-01-02-200426". The RPDs were outside of the acceptance criteria for 2,3,4,7,8-PeCDF; 2,3,4,6,7,8-HxCDF; and 1,2,3,4,7,8,9-HpCDF.

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

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# Sample Inventory Report

<b>Vista Sample ID</b>	<b>Client Sample ID</b>	<b>Sampled</b>	<b>Received</b>	<b>Components/Containers</b>
2000945-01	PDI-146SC-A-00-01-200426	26-Apr-20 08:53	28-Apr-20 09:04	Amber Glass, 120 mL
2000945-02	PDI-146SC-A-01-02-200426	DUP26-Apr-20 08:53	28-Apr-20 09:04	Amber Glass, 120 mL
2000945-03	PDI-146SC-A-02-03-200426	26-Apr-20 08:53	28-Apr-20 09:04	Amber Glass, 120 mL
2000945-04	PDI-146SC-A-03-04-200426	26-Apr-20 08:53	28-Apr-20 09:04	Amber Glass, 120 mL
2000945-05	PDI-146SC-A-04-05-200426	26-Apr-20 08:53	28-Apr-20 09:04	Amber Glass, 120 mL
2000945-06	PDI-146SC-A-05-06-200426	26-Apr-20 08:53	28-Apr-20 09:04	Amber Glass, 120 mL
2000945-07	PDI-146SC-A-06-07-200426	26-Apr-20 08:53	28-Apr-20 09:04	Amber Glass, 120 mL
2000945-08	PDI-146SC-A-07-08-200426	26-Apr-20 08:53	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	
					<b>Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)</b>			
					TEQMinWHO2005Dioxin 0.00646			
<b>TOTALS</b>								
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 Sample Size: 10.0 g		QC Batch: B0D0306 Date Extracted: 28-Apr-2020 14:00		Lab Sample: B0D0306-BS1 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-146SC-A-00-01-200426** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000945-01      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 14.3 g	QC Batch: B0D0306      Date Extracted: 28-Apr-2020 14:00
Date Collected: 26-Apr-2020 8:53	% Solids: 70.4	Date Analyzed : 04-Jun-20 15:00 Column: ZB-5MS 09-Jun-20 15:33 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	0.400			J	IS 13C-2,3,7,8-TCDD	90.3	25 - 164	
1,2,3,7,8-PeCDD	ND		0.597		13C-1,2,3,7,8-PeCDD	85.2	25 - 181	
1,2,3,4,7,8-HxCDD	0.794			J	13C-1,2,3,4,7,8-HxCDD	94.2	32 - 141	
1,2,3,6,7,8-HxCDD	3.19				13C-1,2,3,6,7,8-HxCDD	87.1	28 - 130	
1,2,3,7,8,9-HxCDD	1.65			J	13C-1,2,3,7,8,9-HxCDD	90.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	97.9				13C-1,2,3,4,6,7,8-HpCDD	84.1	23 - 140	
OCDD	1010			B	13C-OCDD	77.3	17 - 157	
2,3,7,8-TCDF	7.16				13C-2,3,7,8-TCDF	86.6	24 - 169	
1,2,3,7,8-PeCDF	9.95				13C-1,2,3,7,8-PeCDF	87.8	24 - 185	
2,3,4,7,8-PeCDF	4.85				13C-2,3,4,7,8-PeCDF	86.3	21 - 178	
1,2,3,4,7,8-HxCDF	20.3				13C-1,2,3,4,7,8-HxCDF	86.6	26 - 152	
1,2,3,6,7,8-HxCDF	6.09				13C-1,2,3,6,7,8-HxCDF	80.9	26 - 123	
2,3,4,6,7,8-HxCDF	2.61				13C-2,3,4,6,7,8-HxCDF	82.9	28 - 136	
1,2,3,7,8,9-HxCDF	1.24			J, B	13C-1,2,3,7,8,9-HxCDF	91.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	28.1				13C-1,2,3,4,6,7,8-HpCDF	79.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	4.44				13C-1,2,3,4,7,8,9-HpCDF	85.5	26 - 138	
OCDF	53.1				13C-OCDF	75.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	85.1	35 - 197	

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

TEQMinWHO2005Dioxin      8.08

<b>TOTALS</b>								
Total TCDD	3.09		4.14					
Total PeCDD	14.5		16.9					
Total HxCDD	54.0		55.6					
Total HpCDD	223							
Total TCDF	32.9		37.4					
Total PeCDF	37.2		40.9					
Total HxCDF	55.8			B				
Total HpCDF	71.7							

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-146SC-A-01-02-200426** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000945-02      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.0 g	QC Batch: B0D0306      Date Extracted: 28-Apr-2020 14:00
Date Collected: 26-Apr-2020 8:53	% Solids: 88.0	Date Analyzed : 04-Jun-20 15:46 Column: ZB-5MS 09-Jun-20 16:05 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	0.361			J	IS 13C-2,3,7,8-TCDD	76.7	25 - 164	
1,2,3,7,8-PeCDD	ND		0.305		13C-1,2,3,7,8-PeCDD	76.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.232			13C-1,2,3,4,7,8-HxCDD	86.9	32 - 141	
1,2,3,6,7,8-HxCDD	0.725			J	13C-1,2,3,6,7,8-HxCDD	80.6	28 - 130	
1,2,3,7,8,9-HxCDD	0.400			J	13C-1,2,3,7,8,9-HxCDD	85.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	23.7				13C-1,2,3,4,6,7,8-HpCDD	80.0	23 - 140	
OCDD	238			B	13C-OCDD	80.1	17 - 157	
2,3,7,8-TCDF	6.25				13C-2,3,7,8-TCDF	72.1	24 - 169	
1,2,3,7,8-PeCDF	5.67				13C-1,2,3,7,8-PeCDF	80.1	24 - 185	
2,3,4,7,8-PeCDF	2.66				13C-2,3,4,7,8-PeCDF	81.0	21 - 178	
1,2,3,4,7,8-HxCDF	7.99				13C-1,2,3,4,7,8-HxCDF	78.5	26 - 152	
1,2,3,6,7,8-HxCDF	2.40				13C-1,2,3,6,7,8-HxCDF	74.6	26 - 123	
2,3,4,6,7,8-HxCDF	0.681			J	13C-2,3,4,6,7,8-HxCDF	78.2	28 - 136	
1,2,3,7,8,9-HxCDF	0.251			J, B	13C-1,2,3,7,8,9-HxCDF	85.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	6.12				13C-1,2,3,4,6,7,8-HpCDF	74.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	1.67			J	13C-1,2,3,4,7,8,9-HpCDF	82.7	26 - 138	
OCDF	14.3				13C-OCDF	76.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	78.7	35 - 197	

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

TEQMinWHO2005Dioxin      3.59

<b>TOTALS</b>								
Total TCDD	0.876							
Total PeCDD	0.820		1.13					
Total HxCDD	8.14							
Total HpCDD	56.7							
Total TCDF	22.4		27.1					
Total PeCDF	18.7		20.7					
Total HxCDF	17.2			B				
Total HpCDF	16.1							

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: Duplicate					EPA Method 1613B				
Source Client ID: PDI-146SC-A-01-02-200426		QC Batch: B0D0306		Lab Sample: B0D0306-DUP1					
Source LabNumber: 2000945-02		Date Extracted: 28-Apr-2020 14:00		Date Analyzed: 04-Jun-20 16:31 Column: ZB-5MS					
Matrix: Solid				09-Jun-20 16:37 Column: ZB-5MS					
Sample Size: 11.4 g									
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	0.375			J	IS 13C-2,3,7,8-TCDD	77.8	25 - 164		
1,2,3,7,8-PeCDD	ND		0.204		13C-1,2,3,7,8-PeCDD	79.6	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.234			13C-1,2,3,4,7,8-HxCDD	87.0	32 - 141		
1,2,3,6,7,8-HxCDD	0.815			J	13C-1,2,3,6,7,8-HxCDD	82.1	28 - 130		
1,2,3,7,8,9-HxCDD	0.417			J	13C-1,2,3,7,8,9-HxCDD	85.5	32 - 141		
1,2,3,4,6,7,8-HpCDD	24.1				13C-1,2,3,4,6,7,8-HpCDD	84.4	23 - 140		
OCDD	294			B	13C-OCDD	83.4	17 - 157		
2,3,7,8-TCDF	5.87				13C-2,3,7,8-TCDF	70.5	24 - 169		
1,2,3,7,8-PeCDF	4.81				13C-1,2,3,7,8-PeCDF	81.8	24 - 185		
2,3,4,7,8-PeCDF	2.05			J	13C-2,3,4,7,8-PeCDF	82.3	21 - 178		
1,2,3,4,7,8-HxCDF	9.13				13C-1,2,3,4,7,8-HxCDF	81.5	26 - 152		
1,2,3,6,7,8-HxCDF	2.58				13C-1,2,3,6,7,8-HxCDF	75.5	26 - 123		
2,3,4,6,7,8-HxCDF	0.880			J	13C-2,3,4,6,7,8-HxCDF	81.4	28 - 136		
1,2,3,7,8,9-HxCDF	0.217			J, B	13C-1,2,3,7,8,9-HxCDF	87.2	29 - 147		
1,2,3,4,6,7,8-HpCDF	7.62				13C-1,2,3,4,6,7,8-HpCDF	78.9	28 - 143		
1,2,3,4,7,8,9-HpCDF	2.39			J	13C-1,2,3,4,7,8,9-HpCDF	87.8	26 - 138		
OCDF	18.0				13C-OCDF	82.7	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	90.3	35 - 197		
					<b>Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)</b>				
					TEQMinWHO2005Dioxin		3.56		
<b>TOTALS</b>									
Total TCDD	1.15		2.70						
Total PeCDD	1.42		2.31						
Total HxCDD	9.07								
Total HpCDD	56.9								
Total TCDF	29.9		32.2						
Total PeCDF	19.9								
Total HxCDF	19.3			B					
Total HpCDF	19.4								

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.

weight.

The sample size is reported in wet

Sample ID: Duplicate					EPA Method 1613B				
Source Client ID: PDI-146SC-A-01-02-200426					Duplicate Lab Sample: B0D0306-DUP1				
Source LabNumber: 2000945-02									
Matrix: Solid									
Analyte	Dup Conc. (pg/g )	Source Conc.	RPD	RPD Limits	Labeled Standard	Dup %R	Source %R	LCL-UCL	
2,3,7,8-TCDD	0.375	0.361	3.82	25	IS 13C-2,3,7,8-TCDD	77.8	76.7	25 - 164	
1,2,3,7,8-PeCDD	ND	ND	NA	25	13C-1,2,3,7,8-PeCDD	79.6	76.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	ND	NA	25	13C-1,2,3,4,7,8-HxCDD	87.0	86.9	32 - 141	
1,2,3,6,7,8-HxCDD	0.815	0.725	11.7	25	13C-1,2,3,6,7,8-HxCDD	82.1	80.6	28 - 130	
1,2,3,7,8,9-HxCDD	0.417	0.400	4.36	25	13C-1,2,3,7,8,9-HxCDD	85.5	85.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	24.1	23.7	1.76	25	13C-1,2,3,4,6,7,8-HpCDD	84.4	80.0	23 - 140	
OCDD	294	238	20.8	25	13C-OCDD	83.4	80.1	17 - 157	
2,3,7,8-TCDF	5.87	6.25	6.25	25	13C-2,3,7,8-TCDF	70.5	72.1	24 - 169	
1,2,3,7,8-PeCDF	4.81	5.67	16.3	25	13C-1,2,3,7,8-PeCDF	81.8	80.1	24 - 185	
2,3,4,7,8-PeCDF	2.05	2.66	<b>25.7</b>	25	13C-2,3,4,7,8-PeCDF	82.3	81.0	21 - 178	
1,2,3,4,7,8-HxCDF	9.13	7.99	13.3	25	13C-1,2,3,4,7,8-HxCDF	81.5	78.5	26 - 152	
1,2,3,6,7,8-HxCDF	2.58	2.40	7.30	25	13C-1,2,3,6,7,8-HxCDF	75.5	74.6	26 - 123	
2,3,4,6,7,8-HxCDF	0.880	0.681	<b>25.6</b>	25	13C-2,3,4,6,7,8-HxCDF	81.4	78.2	28 - 136	
1,2,3,7,8,9-HxCDF	0.217	0.251	14.5	25	13C-1,2,3,7,8,9-HxCDF	87.2	85.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	7.62	6.12	21.8	25	13C-1,2,3,4,6,7,8-HpCDF	78.9	74.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	2.39	1.67	<b>35.2</b>	25	13C-1,2,3,4,7,8,9-HpCDF	87.8	82.7	26 - 138	
OCDF	18.0	14.3	23.0	25	13C-OCDF	82.7	76.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	90.3	78.7	35 - 197	

LCL-UCL - Lower control limit - upper control limit  
The results are reported in dry weight.  
The sample size is reported in wet weight. Results reported to the MDL

**Sample ID: PDI-146SC-A-02-03-200426** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000945-03      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: 26-Apr-2020 8:53	% Solids: 82.8	Date Analyzed: 04-Jun-20 17:16      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.120			IS 13C-2,3,7,8-TCDD	92.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.133			13C-1,2,3,7,8-PeCDD	87.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.168			13C-1,2,3,4,7,8-HxCDD	97.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.174			13C-1,2,3,6,7,8-HxCDD	94.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.181			13C-1,2,3,7,8,9-HxCDD	97.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.713			J	13C-1,2,3,4,6,7,8-HpCDD	91.7	23 - 140	
OCDD	5.05			B	13C-OCDD	93.3	17 - 157	
2,3,7,8-TCDF	ND	0.0851			13C-2,3,7,8-TCDF	86.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0630			13C-1,2,3,7,8-PeCDF	94.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0583			13C-2,3,4,7,8-PeCDF	94.6	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0732			13C-1,2,3,4,7,8-HxCDF	92.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0779			13C-1,2,3,6,7,8-HxCDF	86.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0768			13C-2,3,4,6,7,8-HxCDF	92.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0708		13C-1,2,3,7,8,9-HxCDF	98.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.108			13C-1,2,3,4,6,7,8-HpCDF	88.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.109			13C-1,2,3,4,7,8,9-HpCDF	96.5	26 - 138	
OCDF	ND	0.154			13C-OCDF	92.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	92.8	35 - 197	

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

TEQMinWHO2005Dioxin      0.00865

<b>TOTALS</b>			
Total TCDD	ND		0.111
Total PeCDD	ND	0.133	
Total HxCDD	0.493		0.636
Total HpCDD	1.90		
Total TCDF	ND	0.0851	
Total PeCDF	ND	0.0630	
Total HxCDF	ND		0.0708
Total HpCDF	ND	0.109	

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-146SC-A-03-04-200426** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000945-04      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 13.0 g	QC Batch: B0D0306      Date Extracted: 28-Apr-2020 14:00
Date Collected: 26-Apr-2020 8:53	% Solids: 76.5	Date Analyzed : 03-Jun-20 21:26 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.122			IS 13C-2,3,7,8-TCDD	89.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.121			13C-1,2,3,7,8-PeCDD	89.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.171			13C-1,2,3,4,7,8-HxCDD	105	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.175			13C-1,2,3,6,7,8-HxCDD	93.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.192			13C-1,2,3,7,8,9-HxCDD	98.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND		0.441		13C-1,2,3,4,6,7,8-HpCDD	88.9	23 - 140	
OCDD	3.83			J, B	13C-OCDD	87.9	17 - 157	
2,3,7,8-TCDF	ND	0.0964			13C-2,3,7,8-TCDF	81.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0776			13C-1,2,3,7,8-PeCDF	89.1	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0703			13C-2,3,4,7,8-PeCDF	90.5	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0847			13C-1,2,3,4,7,8-HxCDF	91.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0884			13C-1,2,3,6,7,8-HxCDF	86.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0947			13C-2,3,4,6,7,8-HxCDF	91.1	28 - 136	
1,2,3,7,8,9-HxCDF	0.122			J, B	13C-1,2,3,7,8,9-HxCDF	99.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.121			13C-1,2,3,4,6,7,8-HpCDF	86.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.118			13C-1,2,3,4,7,8,9-HpCDF	96.6	26 - 138	
OCDF	ND	0.119			13C-OCDF	82.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	95.5	35 - 197	

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

TEQMinWHO2005Dioxin      0.0133

<b>TOTALS</b>								
Total TCDD	0.182							
Total PeCDD	ND	0.121						
Total HxCDD	0.446							
Total HpCDD	0.987		1.43					
Total TCDF	ND	0.0964						
Total PeCDF	ND	0.0776						
Total HxCDF	0.122			B				
Total HpCDF	ND	0.121						

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-146SC-A-04-05-200426** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000945-05      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.7 g	QC Batch: B0D0306      Date Extracted: 28-Apr-2020 14:00
Date Collected: 26-Apr-2020 8:53	% Solids: 86.9	Date Analyzed : 04-Jun-20 18:01      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0894			IS 13C-2,3,7,8-TCDD	94.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.125			13C-1,2,3,7,8-PeCDD	93.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.165			13C-1,2,3,4,7,8-HxCDD	105	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.156			13C-1,2,3,6,7,8-HxCDD	98.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.174			13C-1,2,3,7,8,9-HxCDD	102	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.680			J	13C-1,2,3,4,6,7,8-HpCDD	96.3	23 - 140	
OCDD	5.18			B	13C-OCDD	96.8	17 - 157	
2,3,7,8-TCDF	ND	0.0805			13C-2,3,7,8-TCDF	89.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0569			13C-1,2,3,7,8-PeCDF	102	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0647			13C-2,3,4,7,8-PeCDF	101	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0704			13C-1,2,3,4,7,8-HxCDF	96.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0762			13C-1,2,3,6,7,8-HxCDF	89.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0772			13C-2,3,4,6,7,8-HxCDF	96.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.104			13C-1,2,3,7,8,9-HxCDF	105	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.119			13C-1,2,3,4,6,7,8-HpCDF	92.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.110			13C-1,2,3,4,7,8,9-HpCDF	101	26 - 138	
OCDF	ND	0.157			13C-OCDF	93.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	90.8	35 - 197	

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

<b>TOTALS</b>								
Total TCDD	ND	0.0894						
Total PeCDD	ND	0.125						
Total HxCDD	0.427		0.556					
Total HpCDD	1.74							
Total TCDF	ND	0.0805						
Total PeCDF	ND	0.0647						
Total HxCDF	ND	0.104						
Total HpCDF	ND	0.119						

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-146SC-A-05-06-200426** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000945-06      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.8 g	QC Batch: B0D0306      Date Extracted: 28-Apr-2020 14:00
Date Collected: 26-Apr-2020 8:53	% Solids: 87.6	Date Analyzed : 03-Jun-20 22:56      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.100			IS 13C-2,3,7,8-TCDD	93.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.135			13C-1,2,3,7,8-PeCDD	89.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.201			13C-1,2,3,4,7,8-HxCDD	103	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.203			13C-1,2,3,6,7,8-HxCDD	97.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.228			13C-1,2,3,7,8,9-HxCDD	99.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.953			J	13C-1,2,3,4,6,7,8-HpCDD	90.2	23 - 140	
OCDD	6.74			B	13C-OCDD	93.7	17 - 157	
2,3,7,8-TCDF	ND	0.0624			13C-2,3,7,8-TCDF	88.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0484			13C-1,2,3,7,8-PeCDF	88.4	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0490			13C-2,3,4,7,8-PeCDF	88.5	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0674			13C-1,2,3,4,7,8-HxCDF	92.6	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0696			13C-1,2,3,6,7,8-HxCDF	88.2	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0729			13C-2,3,4,6,7,8-HxCDF	91.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0975			13C-1,2,3,7,8,9-HxCDF	96.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.110			13C-1,2,3,4,6,7,8-HpCDF	90.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.109			13C-1,2,3,4,7,8,9-HpCDF	96.3	26 - 138	
OCDF	ND	0.116			13C-OCDF	84.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	99.4	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.0116

<b>TOTALS</b>								
Total TCDD	ND		0.169					
Total PeCDD	0.141		0.233					
Total HxCDD	0.701		0.952					
Total HpCDD	2.51							
Total TCDF	ND	0.0624						
Total PeCDF	ND	0.0490						
Total HxCDF	ND	0.0975						
Total HpCDF	ND	0.110						

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

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

**Sample ID: PDI-146SC-A-06-07-200426** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000945-07      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 14.1 g	QC Batch: B0D0306      Date Extracted: 28-Apr-2020 14:00
Date Collected: 26-Apr-2020 8:53	% Solids: 76.5	Date Analyzed : 03-Jun-20 23:42      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.103			IS 13C-2,3,7,8-TCDD	76.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.117			13C-1,2,3,7,8-PeCDD	82.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.130			13C-1,2,3,4,7,8-HxCDD	99.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.127			13C-1,2,3,6,7,8-HxCDD	93.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.146			13C-1,2,3,7,8,9-HxCDD	98.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.44			J	13C-1,2,3,4,6,7,8-HpCDD	92.5	23 - 140	
OCDD	11.9			B	13C-OCDD	90.6	17 - 157	
2,3,7,8-TCDF	ND	0.0774			13C-2,3,7,8-TCDF	67.2	24 - 169	
1,2,3,7,8-PeCDF	ND		0.0503		13C-1,2,3,7,8-PeCDF	81.0	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0664			13C-2,3,4,7,8-PeCDF	81.3	21 - 178	
1,2,3,4,7,8-HxCDF	ND		0.163		13C-1,2,3,4,7,8-HxCDF	87.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0724			13C-1,2,3,6,7,8-HxCDF	83.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0716			13C-2,3,4,6,7,8-HxCDF	90.8	28 - 136	
1,2,3,7,8,9-HxCDF	0.0932			J, B	13C-1,2,3,7,8,9-HxCDF	94.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.176			J	13C-1,2,3,4,6,7,8-HpCDF	89.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.108			13C-1,2,3,4,7,8,9-HpCDF	96.4	26 - 138	
OCDF	ND		0.0983		13C-OCDF	82.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	77.8	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.0291

<b>TOTALS</b>								
Total TCDD	ND		0.0700					
Total PeCDD	ND	0.117						
Total HxCDD	0.631		0.889					
Total HpCDD	3.21							
Total TCDF	0.0733							
Total PeCDF	ND		0.0503					
Total HxCDF	0.0932		0.256	B				
Total HpCDF	0.176							

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-146SC-A-07-08-200426** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000945-08      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 13.2 g	QC Batch: B0D0306      Date Extracted: 28-Apr-2020 14:00
Date Collected: 26-Apr-2020 8:53	% Solids: 75.7	Date Analyzed : 04-Jun-20 00:27      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0913			IS 13C-2,3,7,8-TCDD	95.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.114			13C-1,2,3,7,8-PeCDD	91.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.124			13C-1,2,3,4,7,8-HxCDD	106	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.123			13C-1,2,3,6,7,8-HxCDD	96.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.146			13C-1,2,3,7,8,9-HxCDD	99.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.204			J	13C-1,2,3,4,6,7,8-HpCDD	97.3	23 - 140	
OCDD	1.21			J, B	13C-OCDD	97.3	17 - 157	
2,3,7,8-TCDF	ND	0.0610			13C-2,3,7,8-TCDF	87.6	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0546			13C-1,2,3,7,8-PeCDF	88.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0570			13C-2,3,4,7,8-PeCDF	90.0	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0593			13C-1,2,3,4,7,8-HxCDF	94.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0646			13C-1,2,3,6,7,8-HxCDF	88.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0659			13C-2,3,4,6,7,8-HxCDF	93.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0697		13C-1,2,3,7,8,9-HxCDF	99.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0868			13C-1,2,3,4,6,7,8-HpCDF	93.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0798			13C-1,2,3,4,7,8,9-HpCDF	99.3	26 - 138	
OCDF	ND	0.115			13C-OCDF	89.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.1	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.00240

<b>TOTALS</b>								
Total TCDD	ND	0.0913						
Total PeCDD	ND	0.114						
Total HxCDD	0.127							
Total HpCDD	0.501							
Total TCDF	ND		0.0428					
Total PeCDF	ND	0.0570						
Total HxCDF	ND		0.0697					
Total HpCDF	ND	0.0868						

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**

**COC ID:** VISTA-20200426-095509  
**Sample Custodian:** SN  
**Lab:** VISTA

**POC:** Delaney Peterson (360-715-2707)  
1605 Cornwall Avenue, Bellingham, WA 98225  
**Project:** Gasco PDI  
**Client:** NW Natural

2000945 4.3°C

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
* 001	PDI-FB-2004261231	FB	WQ	04/26/2020	12:30	2	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
* 002	PDI-RB-2004261300	RB	WQ	04/26/2020	13:00	2	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
* 003	PDI-146SC-A-00-01-200426	N	SE	04/26/2020	8:53	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								PCB Congeners *	E1668A	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
004	PDI-146SC-A-01-02-200426	N	SE	04/26/2020	8:53	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
005	PDI-146SC-A-02-03-200426	N	SE	04/26/2020	8:53	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
006	PDI-146SC-A-03-04-200426	N	SE	04/26/2020	8:53	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
007	PDI-146SC-A-04-05-200426	N	SE	04/26/2020	8:53	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
008	PDI-146SC-A-05-06-200426	N	SE	04/26/2020	8:53	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C

Comment: \* WO# 2000947  
\* WO# 2000974

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature:	Signature:	Signature:	Signature:
Print Name: <i>Sasha Noorwood</i>	Print Name: <i>William R Wright</i>	Print Name:	Print Name:	Print Name:	Print Name:
Company: <i>Anchor OEA</i>	Company: <i>VAI</i>	Company:	Company:	Company:	Company:
Date/Time: <i>4/27/20 1330</i>	Date/Time: <i>4-28-20 09:04</i>	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

**ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY**

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

**Project:** Gasco PDI  
**Client:** NW Natural

4.3°C  
 2000945

**COC ID:** VISTA-20200426-095509  
**Sample Custodian:** SN  
**Lab:** VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
006	PDI-146SC-A-06-06-200426	N	SE	04/26/2020	8:53	1	<input type="checkbox"/>	Total solids (VISTA)	SM2540G	7	4°C
009	PDI-146SC-A-06-07-200426	N	SE	04/26/2020	8:53	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
010	PDI-146SC-A-07-08-200426	N	SE	04/26/2020	8:53	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
4/27/20 1230	4-28-20 09:04				

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

# Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: 2000945 TAT rush

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

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>		
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>		
Airbill <u>3 of 3</u> Trk # <u>7703 3190 1482</u>	<input checked="" type="checkbox"/>		
Shipping Documentation Present?	<input checked="" type="checkbox"/>		
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
			<input checked="" type="checkbox"/> Return
			<input type="checkbox"/> Dispose
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>		
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>		
Holding Time Acceptable?	<input checked="" type="checkbox"/>		
<b>Logged In:</b>	<b>Date/Time</b> 04/28/20 1008	<b>Initials:</b> wls	<b>Location:</b> WR-2
			<b>Shelf/Rack:</b> G-4
COC Anomaly/Sample Acceptance Form completed?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

# CoC/Label Reconciliation Report WO# 2000945

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2000945-01	A PDI-146SC-A-00-01-200426	<input checked="" type="checkbox"/>	26-Apr-20 08:53	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000945-02	A PDI-146SC-A-01-02-200426	<input checked="" type="checkbox"/>	26-Apr-20 08:53	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid <b>DUP</b>
2000945-03	A PDI-146SC-A-02-03-200426	<input checked="" type="checkbox"/>	26-Apr-20 08:53	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000945-04	A PDI-146SC-A-03-04-200426	<input checked="" type="checkbox"/>	26-Apr-20 08:53	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000945-05	A PDI-146SC-A-04-05-200426	<input checked="" type="checkbox"/>	26-Apr-20 08:53	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000945-06	A PDI-146SC-A-05-06-200426	<input checked="" type="checkbox"/>	26-Apr-20 08:53	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000945-07	A PDI-146SC-A-06-07-200426	<input checked="" type="checkbox"/>	26-Apr-20 08:53	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000945-08	A PDI-146SC-A-07-08-200426	<input checked="" type="checkbox"/>	26-Apr-20 08:53	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid

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

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

Verified by/Date: RLB 4/28/20

## **EXTRACTION INFORMATION**



Process Sheet  
 Workorder: **2000945**



Workorder Due: **05-May-20 00:00**

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

TAT: 7

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

Prep Batch: BODO 306

Prep Data Entered: DT 05/08/20  
Date and Initials

Initial Sequence: SOE0027

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2000945-01	<input checked="" type="checkbox"/>	PDI-146SC-A-00-01-200426	28-Apr-20 09:04	WR-2 G-4	
2000945-02	<input checked="" type="checkbox"/>	PDI-146SC-A-01-02-200426	28-Apr-20 09:04	WR-2 G-4	DUP
2000945-03	<input checked="" type="checkbox"/>	PDI-146SC-A-02-03-200426	28-Apr-20 09:04	WR-2 G-4	
2000945-04	<input checked="" type="checkbox"/>	PDI-146SC-A-03-04-200426	28-Apr-20 09:04	WR-2 G-4	
2000945-05	<input checked="" type="checkbox"/>	PDI-146SC-A-04-05-200426	28-Apr-20 09:04	WR-2 G-4	
2000945-06	<input checked="" type="checkbox"/>	PDI-146SC-A-05-06-200426	28-Apr-20 09:04	WR-2 G-4	
2000945-07	<input type="checkbox"/>	PDI-146SC-A-06-07-200426	28-Apr-20 09:04	WR-2 G-4	
2000945-08	<input checked="" type="checkbox"/>	PDI-146SC-A-07-08-200426	28-Apr-20 09:04	WR-2 G-4	

WO Comments: **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	Florisol 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 04/29/20
<input type="checkbox"/>	B0D0306-BS1	(10.00)	(10.00)							
<input type="checkbox"/>	B0D0306-DUP1 2000945-02	11.31	11.13							
<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>142</u>	NS Name <u>18F1913</u>	CRS Name <u>19I1602</u>	RS Name <u>17I1603</u>	Cycle Time 1455	APP: SEFUN SOX (SDS)	Check Out: Chemist/Date: <u>AO 04/28/20</u>
PCDD/F <u>2501, 10ML</u>	PCDD/F <u>18F1913, 10ML</u>	PCDD/F <u>19I1602, 10ML</u>	PCDD/F <u>17I1603, 10ML</u>	Start Date/Time <u>04/28/20</u>	SOLV: <u>T01</u>	Check In: Chemist/Date: <u>AO 04/28/20</u>
PCB	PCB	PCB	PCB	Stop Date/Time <u>0655 04/29/20</u>	Other: <u>NA</u>	Balance ID: <u>HRMS-9</u>
PAH	PAH	PAH	PAH	Final Volume(s) <u>20ML</u>	<u>C14</u>	

Comments:

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

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

(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	AO 04/29/20	AO 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>19E1602, 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>1455 04/29/20</u>	Other <u>N/A</u>	Balance ID: <u>HRMS 9</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>C14</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
<b>B0D0306-BLK1</b>	<b>10</b>			<b>20</b>	<b>28-Apr-20 14:00</b>	<b>ACO</b>				<b>QC</b>
<b>B0D0306-BS1</b>	<b>10</b>			<b>20</b>	<b>28-Apr-20 14:00</b>	<b>ACO</b>	<b>18F1913</b>	<b>10</b>		<b>QC</b>
<b>B0D0306-DUP1</b>	<b>11.39</b>			<b>20</b>	<b>28-Apr-20 14:00</b>	<b>ACO</b>				<b>QC</b>

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

D2216-90

BATCH ID B0D0303

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

Inst HRMS-8 ✓

Date/Time IN: 04/30/201638 ✓  
Date/Time OUT: 05/01/20/1417 ✓

Particle Size	Sample ID	Sample	Sample Type	Initial and Date:		Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids Raw/Val	RR 04/30/20 ✓		pH Before	pH After	Acid Added	Sample Homogenized*
				Pan Tare Wt. (gms)	RR 05/01/20 ✓					Visual Inspection	CI-				
	2000945-01	A ✓	Sample	1.2800 ✓	RR 04/30/20 ✓	8.9100 ✓	6.6500 ✓	5.3700	70.38	MUD ✓	NA	NA	NA	NA	X ✓
	2000945-02	A	Sample	1.2800 ✓	RR 04/30/20 ✓	6.5400 ✓	5.9100 ✓	4.6300	88.02	SAND ✓	NA	NA	NA	NA	X
	2000945-03	A	Sample	1.3200 ✓	RR 04/30/20 ✓	7.5900 ✓	6.5100 ✓	5.1900	82.78	SAND ✓	NA	NA	NA	NA	X
	2000945-04	A	Sample	1.3000 ✓	RR 04/30/20 ✓	5.9000 ✓	4.8200 ✓	3.5200	76.52	SAND ✓	NA	NA	NA	NA	X
	2000945-05	A	Sample	1.3200 ✓	RR 04/30/20 ✓	5.2000 ✓	4.6900 ✓	3.3700	86.86	SAND ✓	NA	NA	NA	NA	X
	2000945-06	A	Sample	1.2600 ✓	RR 04/30/20 ✓	5.5200 ✓	4.9900 ✓	3.7300	87.56	SAND ✓	NA	NA	NA	NA	X
	2000945-07	A	Sample	1.2800 ✓	RR 04/30/20 ✓	5.7500 ✓	4.7000 ✓	3.4200	76.51	SAND ✓	NA	NA	NA	NA	X
	2000945-08	A	Sample	1.2700 ✓	RR 04/30/20 ✓	6.2500 ✓	5.0400 ✓	3.7700	75.70	SAND ✓	NA	NA	NA	NA	X
	2000976-01	A	Sample	1.3000 ✓	RR 04/30/20 ✓	8.2700 ✓	5.9200 ✓	4.6200	66.28	MUD ✓	NA	NA	NA	NA	X
	2000976-02	A	Sample	1.2800 ✓	RR 04/30/20 ✓	6.0900 ✓	5.6300 ✓	4.3500	90.44	SAND ✓	NA	NA	NA	NA	X
	2000976-03	A	Sample	1.2800 ✓	RR 04/30/20 ✓	5.3100 ✓	4.6100 ✓	3.3300	82.63	SAND ✓	NA	NA	NA	NA	X
	2000976-04	A	Sample	1.3000 ✓	RR 04/30/20 ✓	6.3500 ✓	5.2200 ✓	3.9200	77.62	SAND ✓	NA	NA	NA	NA	X
	2000976-05	A	Sample	1.3000 ✓	RR 04/30/20 ✓	6.7400 ✓	6.2500 ✓	4.9500	90.99	SAND ✓	NA	NA	NA	NA	X
	2000976-06	A	Sample	1.3000 ✓	RR 04/30/20 ✓	5.5200 ✓	4.8600 ✓	3.5600	84.36	SAND ✓	NA	NA	NA	NA	X
	2000976-07	A	Sample	1.2800 ✓	RR 04/30/20 ✓	6.6600 ✓	6.0500 ✓	4.7700	88.66	SAND ✓	NA	NA	NA	NA	X
	2000976-08	A ✓	Sample	1.2800 ✓	RR 04/30/20 ✓	6.0500 ✓	5.3000 ✓	4.0200	84.28	SAND ✓	NA	NA	NA	NA	X ✓

\*Sample homogenized in sample container unless otherwise noted.

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

inst -HRMS-8

Date/Time IN: 04/30/20 Date/Time OUT: 05/01/20  
1638 1417

B	C	D	E	F	G	H	I	K	L	M	N	O	P
Particle Size	SampleID	SampType	Initial and Date: Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
	<b>A</b>	Sample	1.28	8.91	6.65			Mud					X
		Sample	1.28	6.54	5.91			Sand					X
		Sample	1.32	7.59	6.51								X
		Sample	1.30	5.90	4.82								X
		Sample	1.32	5.20	4.69								X
		Sample	1.26	5.52	4.99								X
		Sample	1.28	5.75	4.70								X
		Sample	1.27	6.25	5.04								X
		Sample	1.30	8.27	5.92								X
		Sample	1.28	6.09	5.63								X
		Sample	1.28	5.31	4.61								X
		Sample	1.30	6.35	5.22								X
		Sample	1.30	6.74	6.25								X
		Sample	1.30	5.52	4.86								X
		Sample	1.28	6.66	6.05								X
		Sample	1.28	6.05	5.30								X

\*Sample homogenized in sample container unless otherwise noted.

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

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

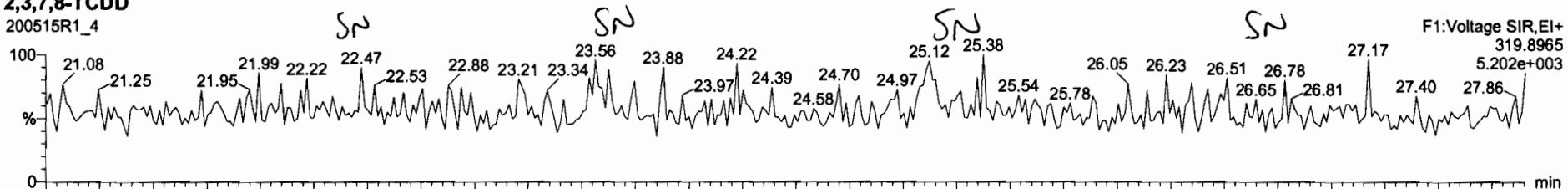
Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

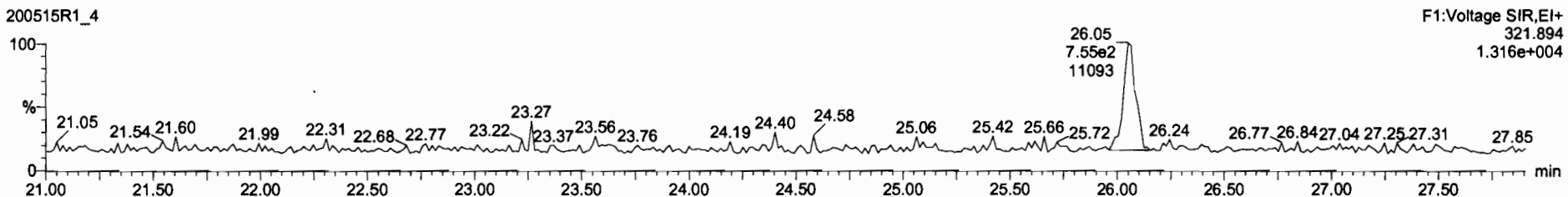
Name: 200515R1\_4, Date: 15-May-2020, Time: 10:34:04, ID: B0D0306-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD

200515R1\_4

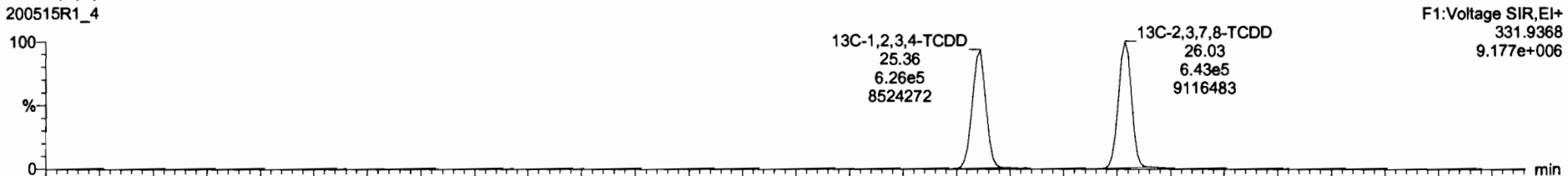


200515R1\_4

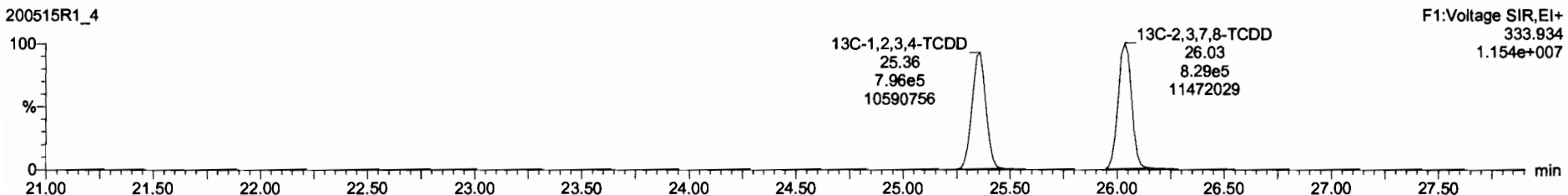


13C-2,3,7,8-TCDD

200515R1\_4



200515R1\_4



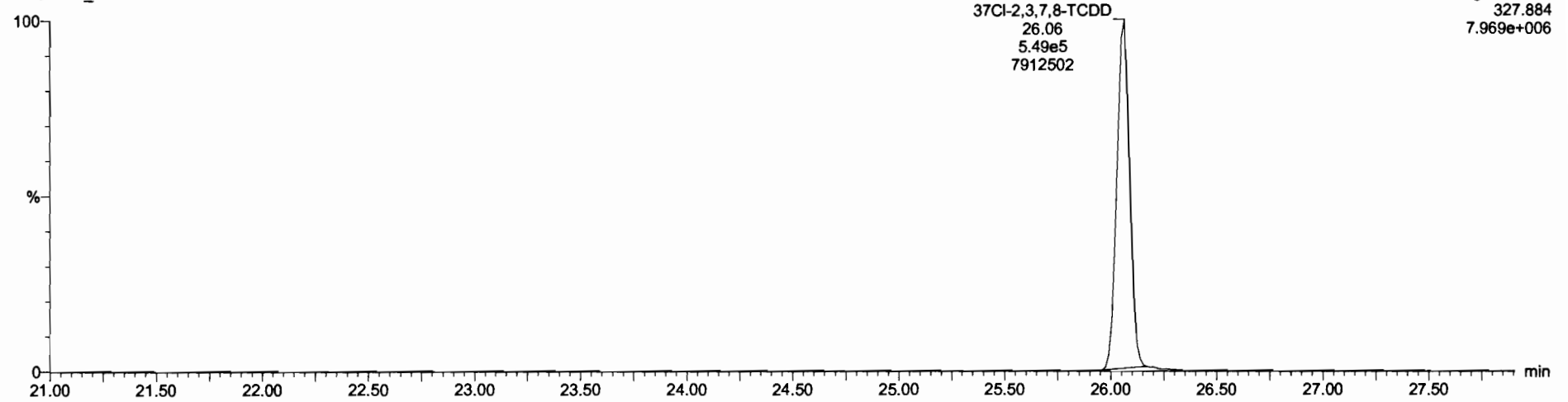
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Last Altered: Friday, May 15, 2020 11:20:31 AM Pacific Daylight Time  
Printed: Friday, May 15, 2020 11:22:35 AM Pacific Daylight Time

Name: 200515R1\_4, Date: 15-May-2020, Time: 10:34:04, ID: B0D0306-BLK1 Method Blank 10, Description: Method Blank

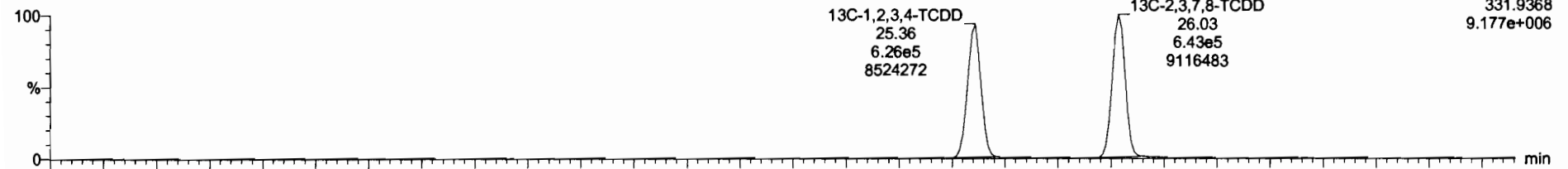
**37Cl-2,3,7,8-TCDD**

200515R1\_4

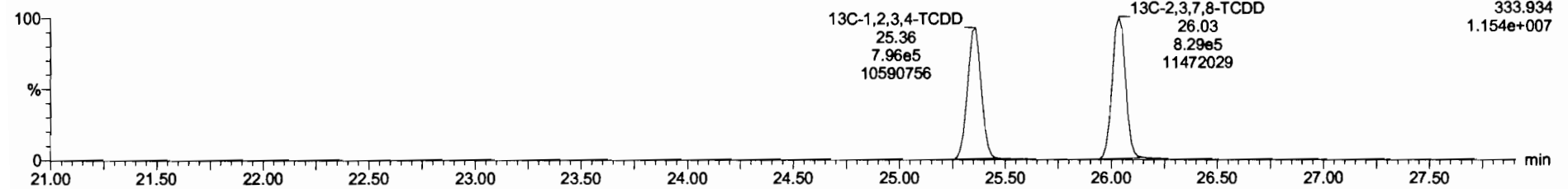


**13C-1,2,3,4-TCDD**

200515R1\_4



200515R1\_4



Dataset: Untitled

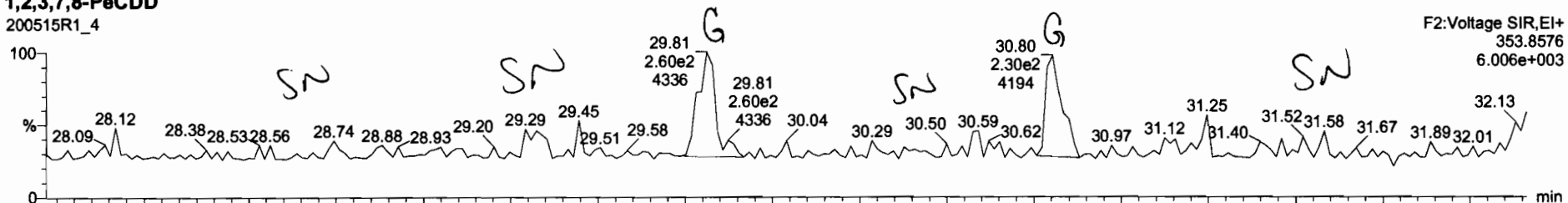
Last Altered: Friday, May 15, 2020 11:20:31 AM Pacific Daylight Time

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

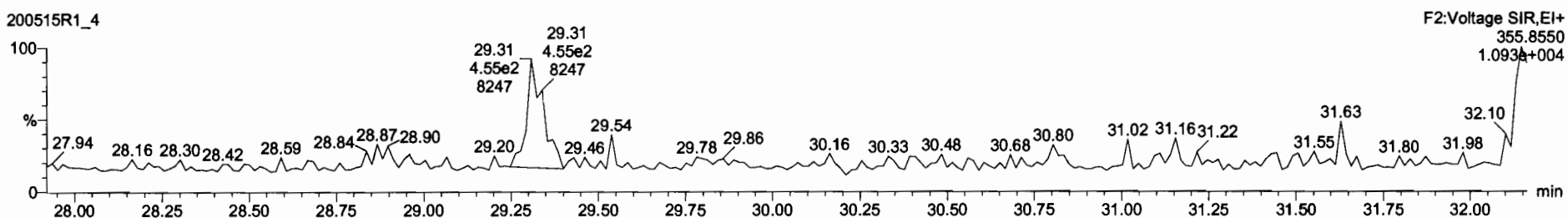
Name: 200515R1\_4, Date: 15-May-2020, Time: 10:34:04, ID: B0D0306-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDD

200515R1\_4

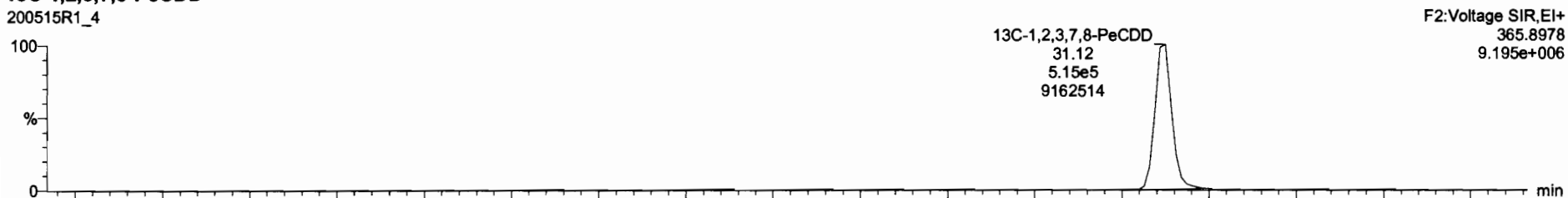


200515R1\_4

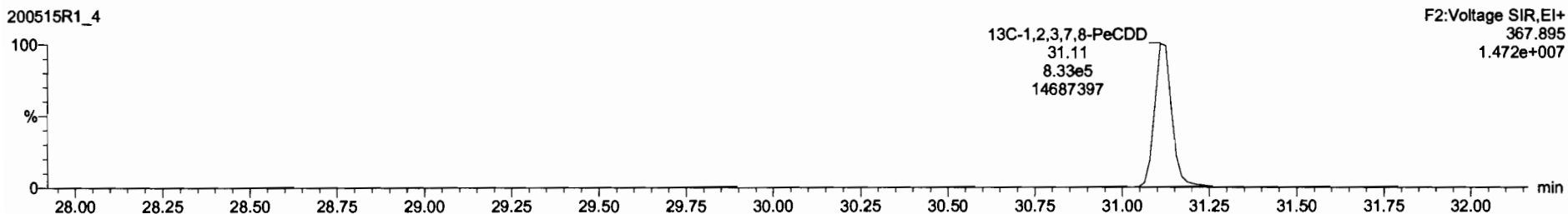


13C-1,2,3,7,8-PeCDD

200515R1\_4



200515R1\_4



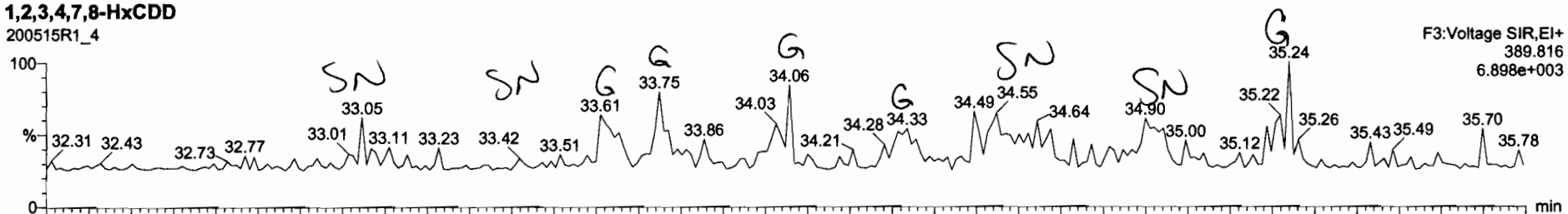
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Last Altered: Friday, May 15, 2020 11:20:31 AM Pacific Daylight Time  
Printed: Friday, May 15, 2020 11:22:35 AM Pacific Daylight Time

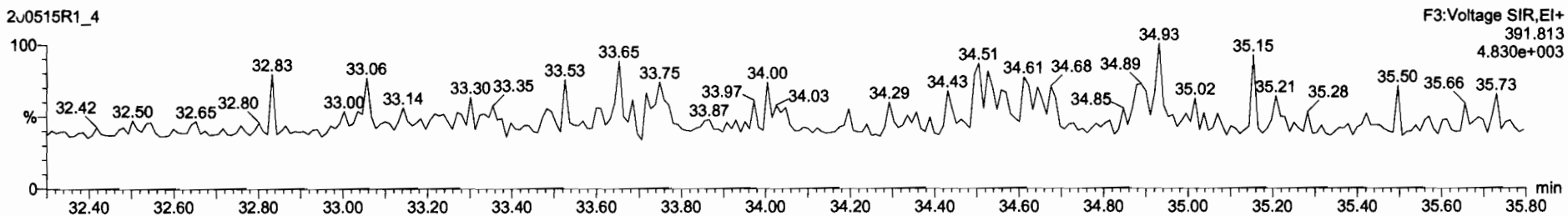
Name: 200515R1\_4, Date: 15-May-2020, Time: 10:34:04, ID: B0D0306-BLK1 Method Blank 10, Description: Method Blank

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

200515R1\_4

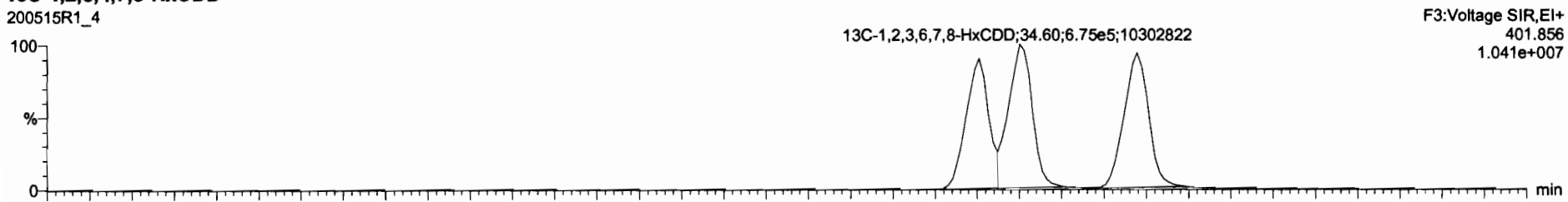


200515R1\_4

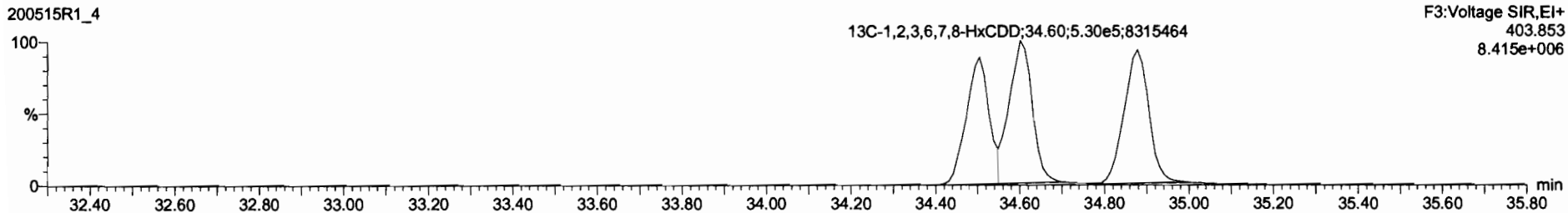


13C-1,2,3,4,7,8-HxCDD

200515R1\_4



200515R1\_4



Dataset: Untitled

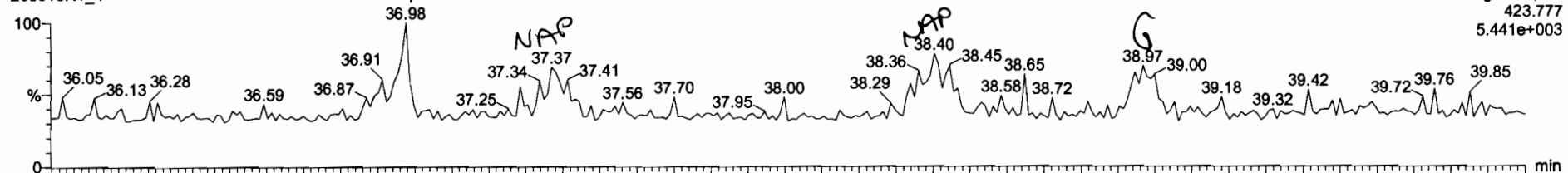
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Printed: Friday, May 15, 2020 11:22:35 AM Pacific Daylight Time

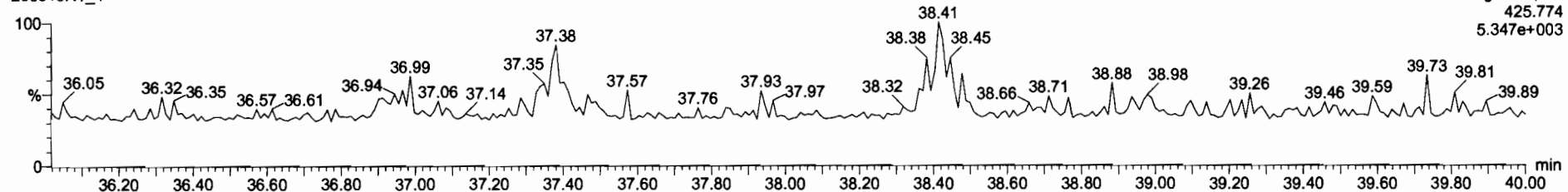
Name: 200515R1\_4, Date: 15-May-2020, Time: 10:34:04, ID: B0D0306-BLK1 Method Blank 10, Description: Method Blank

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

200515R1\_4

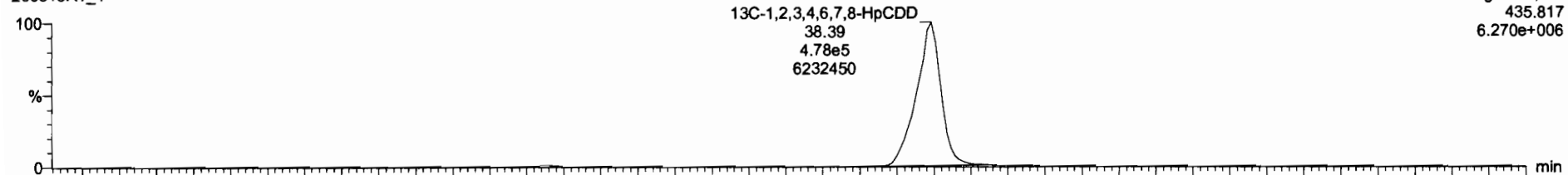


200515R1\_4

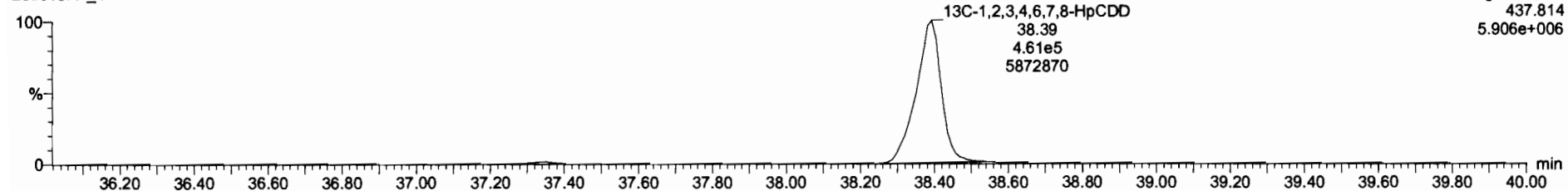


**<sup>13</sup>C-1,2,3,4,6,7,8-HpCDD**

200515R1\_4



200515R1\_4

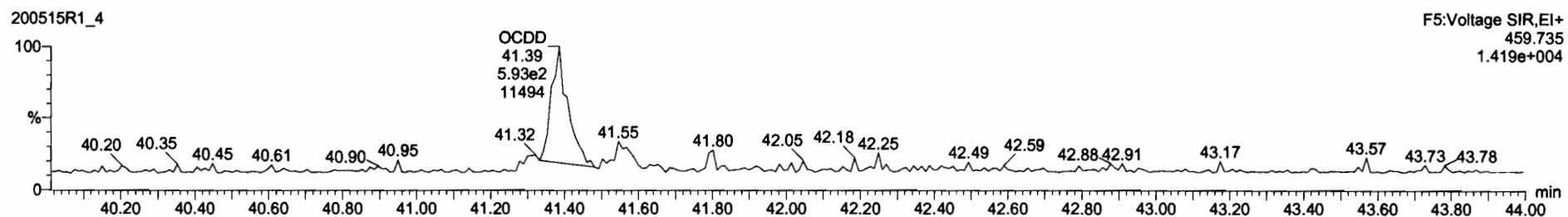
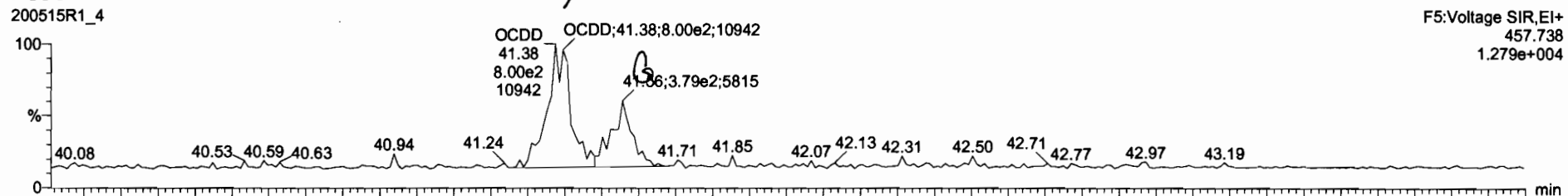


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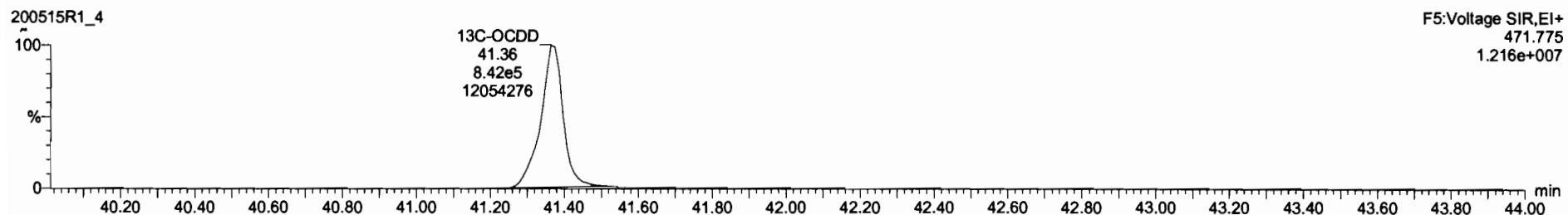
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Printed: Friday, May 15, 2020 11:22:35 AM Pacific Daylight Time

Name: 200515R1\_4, Date: 15-May-2020, Time: 10:34:04, ID: B0D0306-BLK1 Method Blank 10, Description: Method Blank

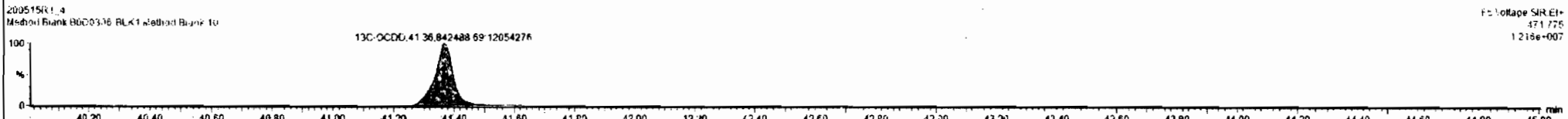
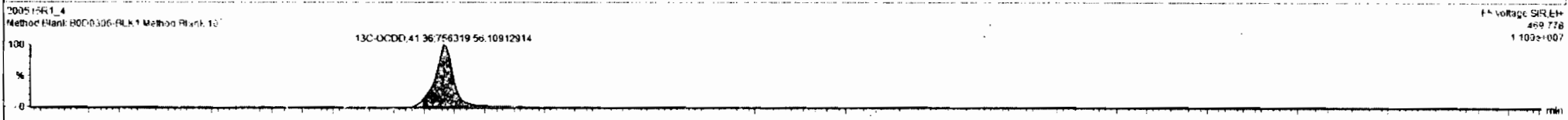
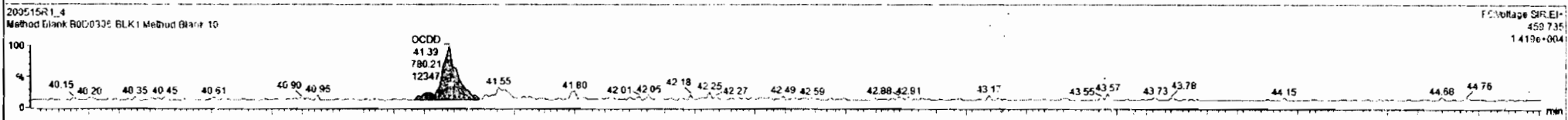
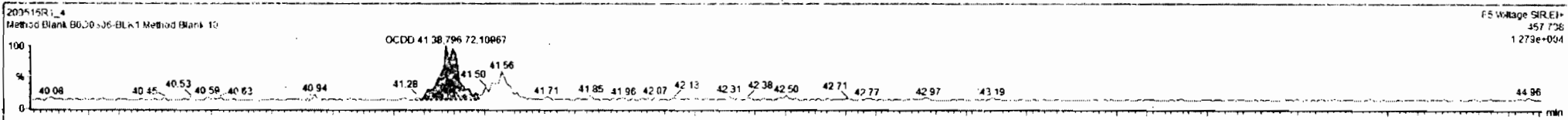
**OCDD**



**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	





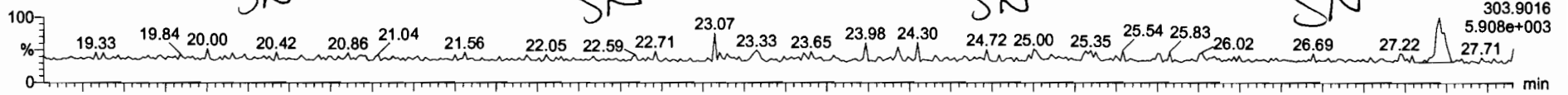
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Printed: Friday, May 15, 2020 11:22:35 AM Pacific Daylight Time

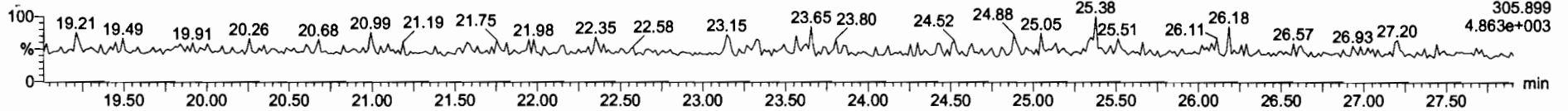
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**2,3,7,8-TCDF**

200515R1\_4

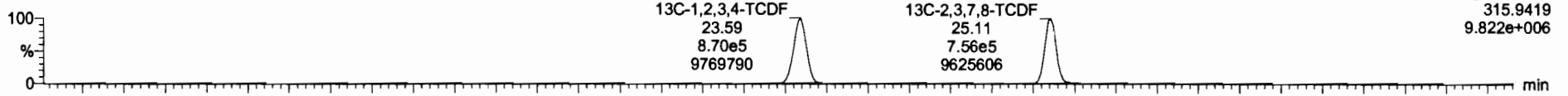


200515R1\_4

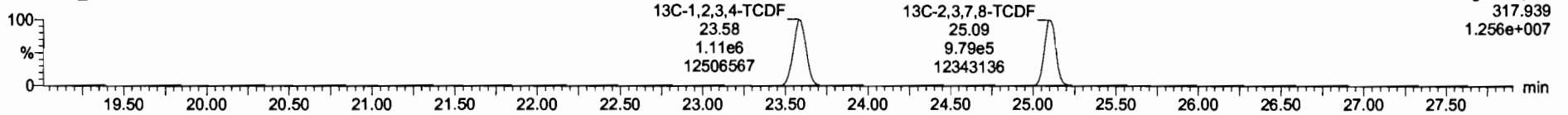


**13C-2,3,7,8-TCDF**

200515R1\_4

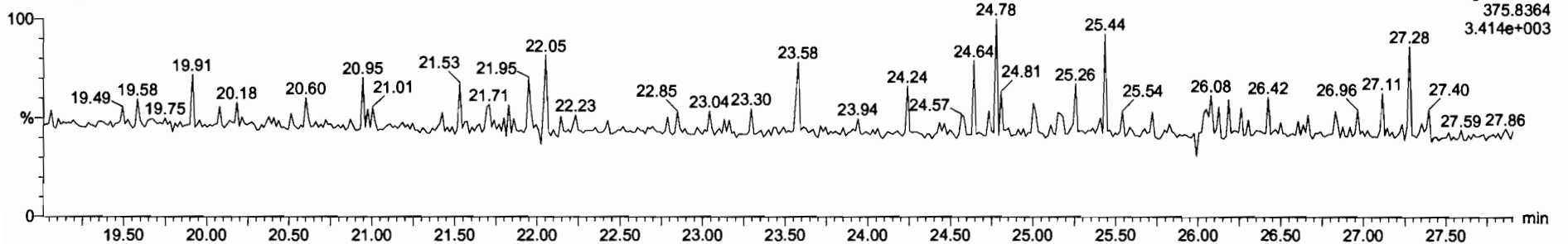


200515R1\_4



**DPE1**

200515R1\_4



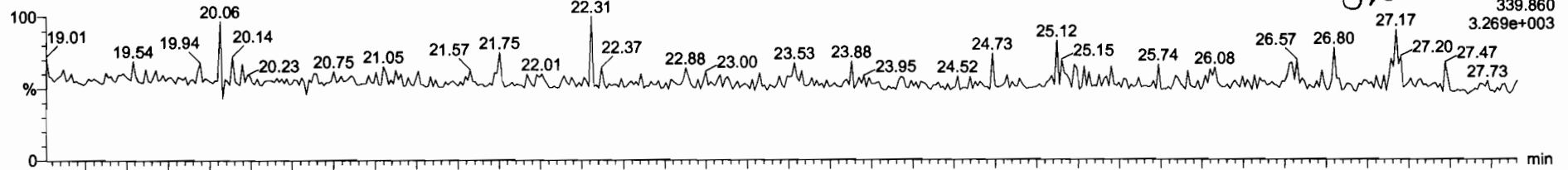
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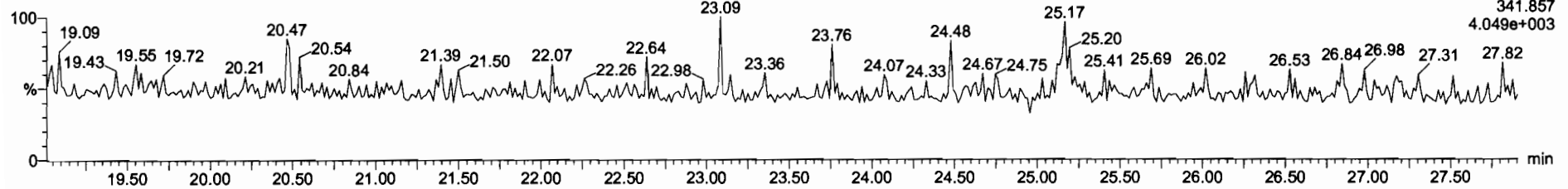
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1st Func. Penta-Furans

200515R1\_4

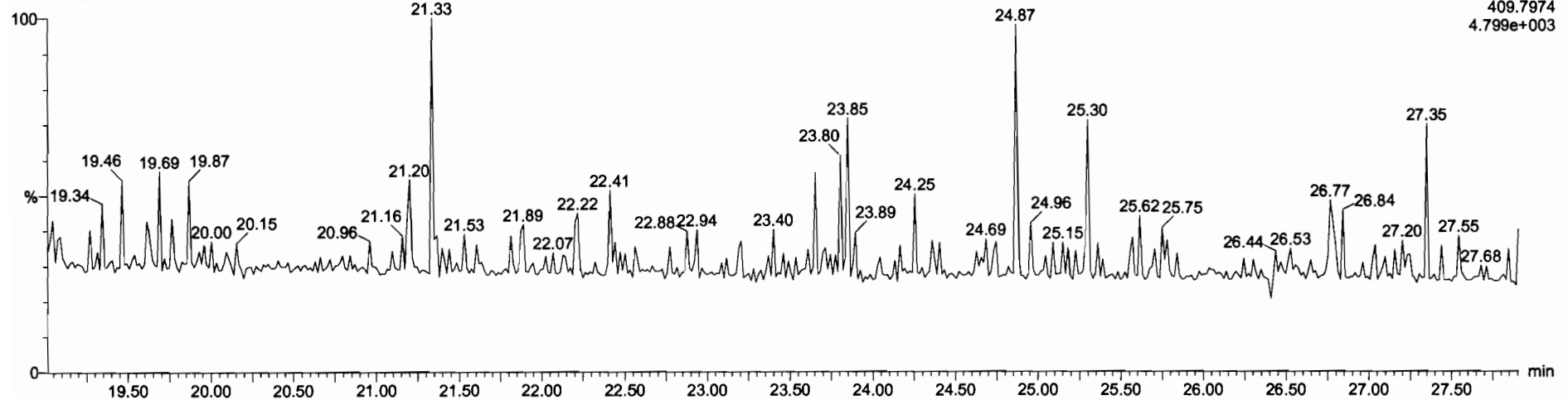


200515R1\_4



DPE6

200515R1\_4



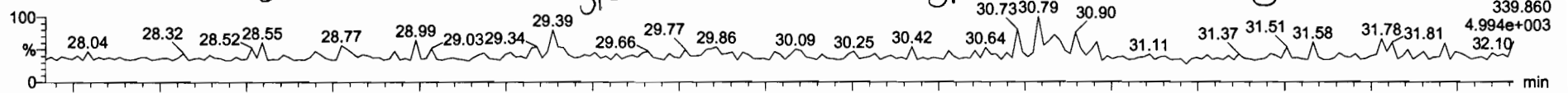
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Printed: Friday, May 15, 2020 11:22:35 AM Pacific Daylight Time

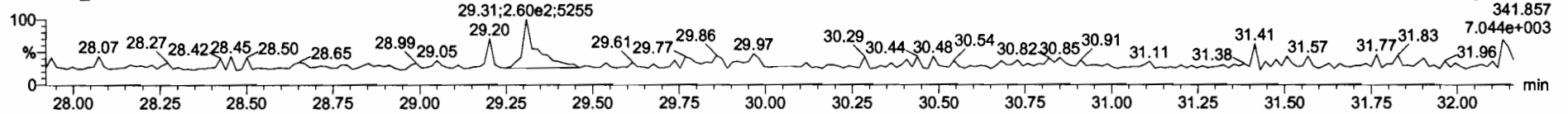
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**1,2,3,7,8-PeCDF**

200515R1\_4

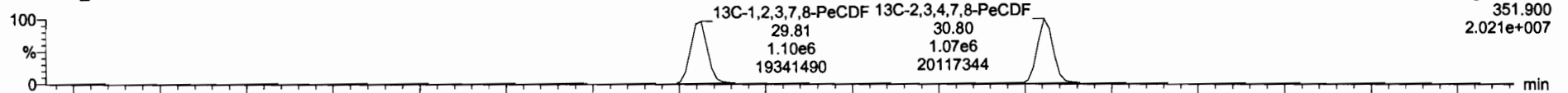


200515R1\_4

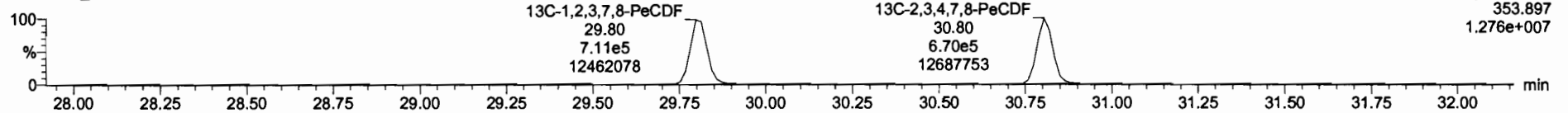


**13C-1,2,3,7,8-PeCDF**

200515R1\_4

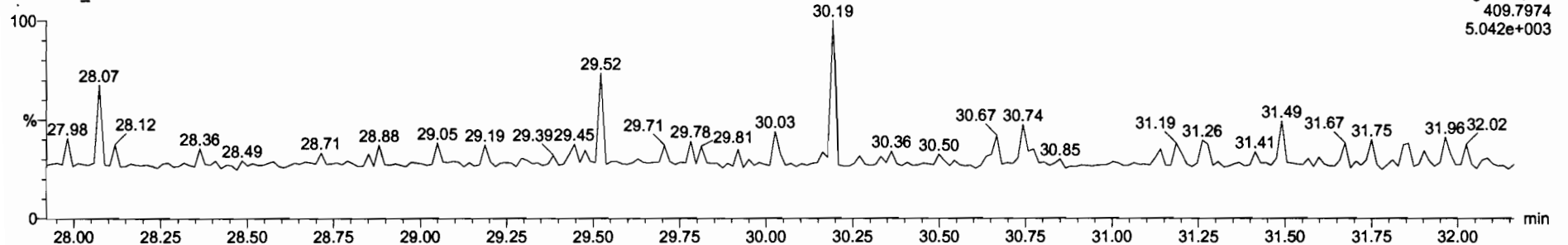


200515R1\_4



**DPE2**

200515R1\_4

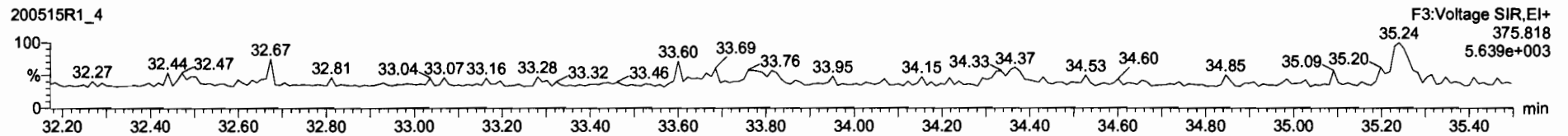
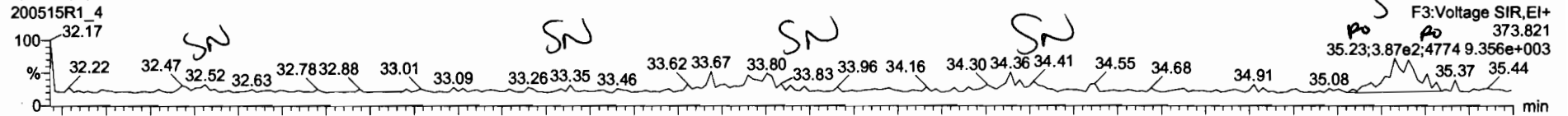


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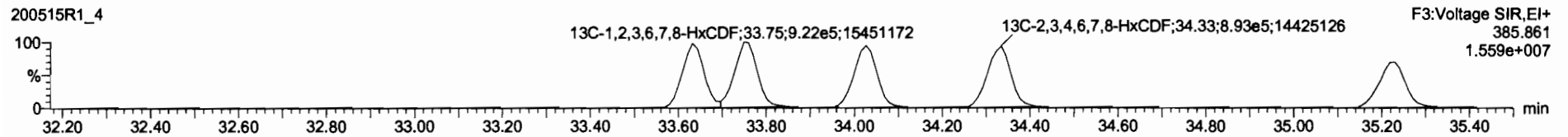
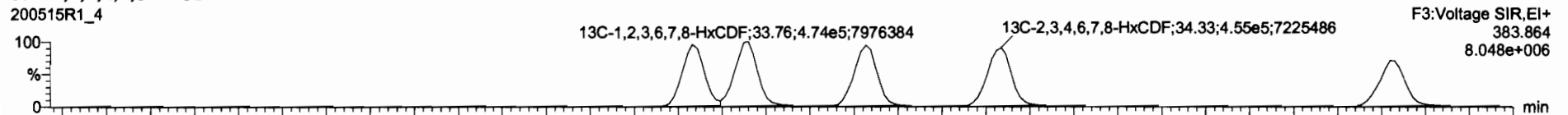
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Printed: Friday, May 15, 2020 11:22:35 AM Pacific Daylight Time

Name: 200515R1\_4, Date: 15-May-2020, Time: 10:34:04, ID: B0D0306-BLK1 Method Blank 10, Description: Method Blank

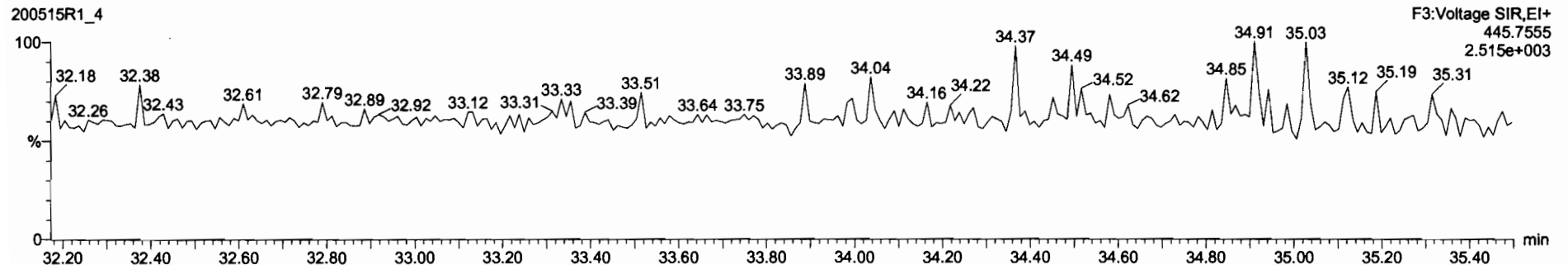
**1,2,3,4,7,8-HxCDF**

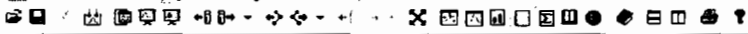


**13C-1,2,3,4,7,8-HxCDF**



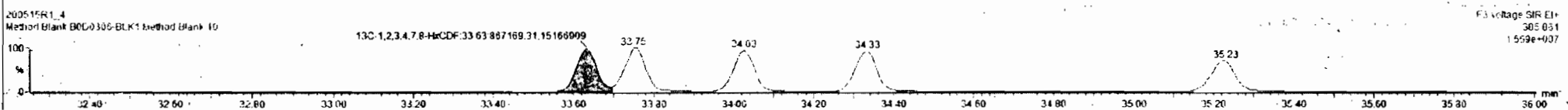
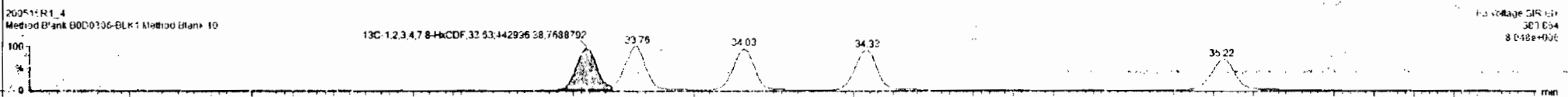
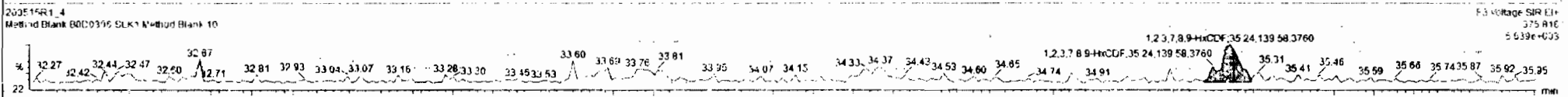
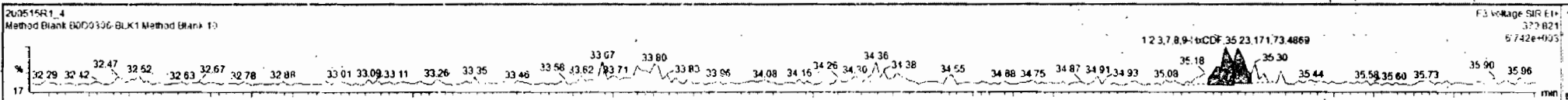
**DPE3**





Name	Resp	RA	n/y	RFI	w/nd	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	nQ Resp	RA	n/y	EMPC	Conc
1 1,2,3,7,8-HxCDF	35.23	1.717e2	1.396e2	1.23	NO	0.063281	0.063281
2 Total Hexa-Furans	35.28	1.194e2	7.131e1	1.67	YES	0.026701	0.00000



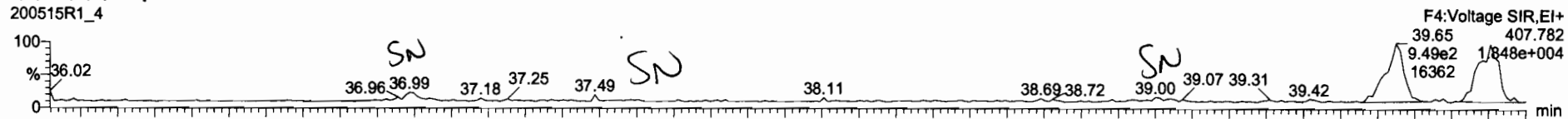
Dataset: Untitled

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

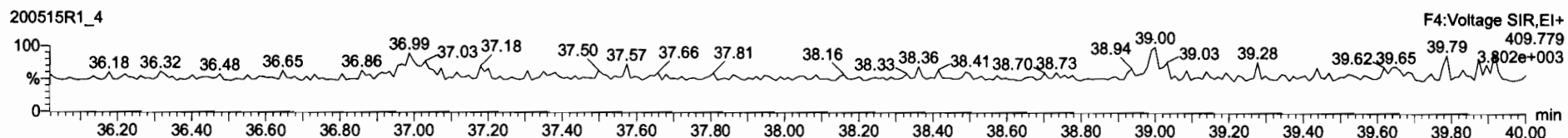
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**1,2,3,4,6,7,8-HpCDF**

200515R1\_4



200515R1\_4

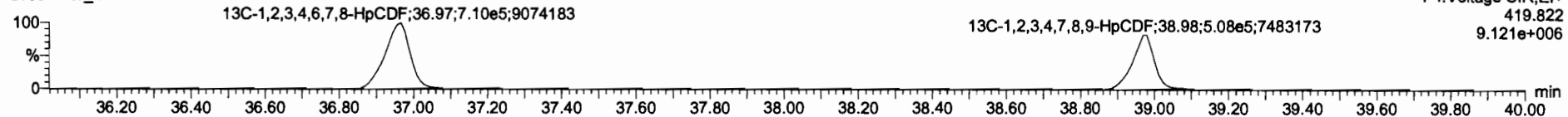


**13C-1,2,3,4,6,7,8-HpCDF**

200515R1\_4

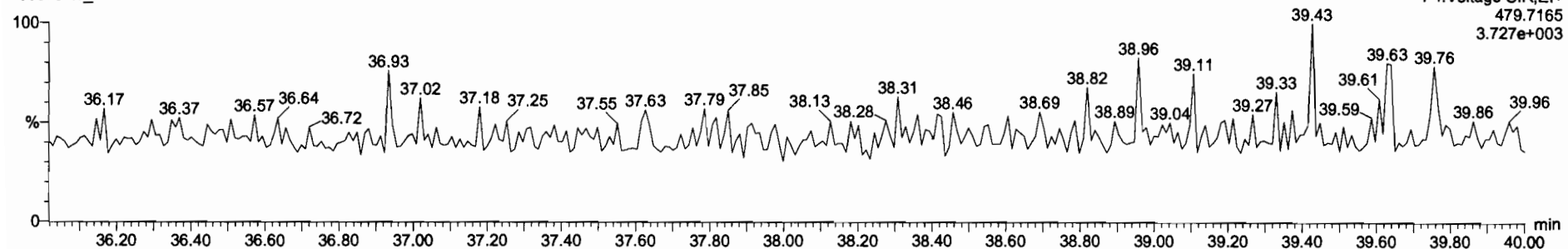


200515R1\_4



**DPE4**

200515R1\_4

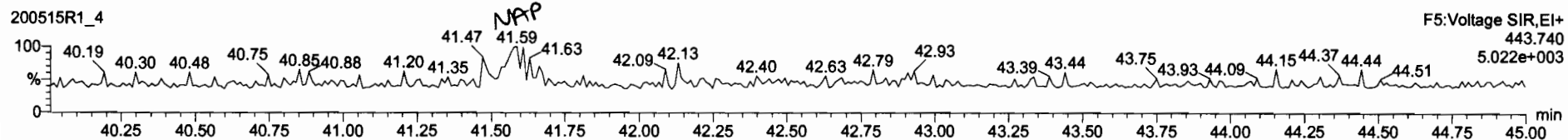
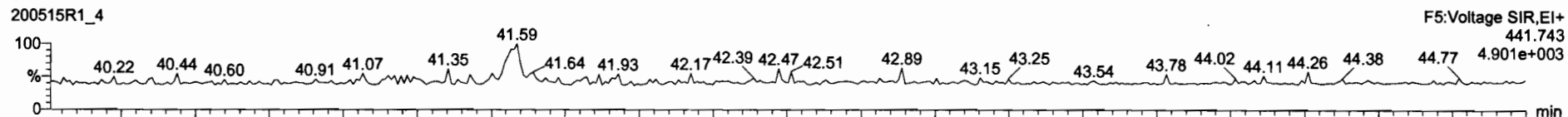


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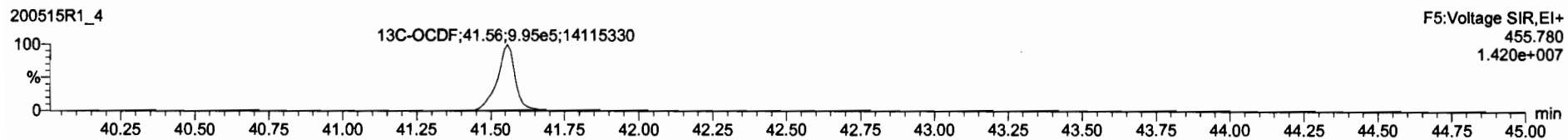
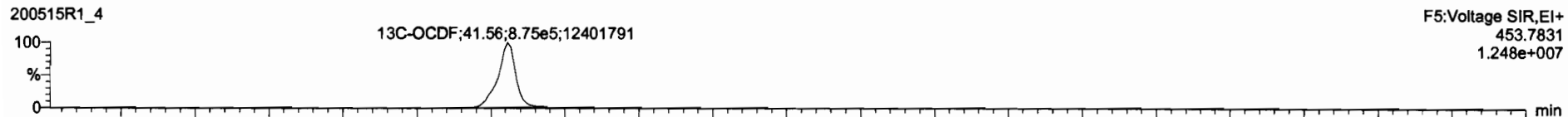
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Printed: Friday, May 15, 2020 11:22:35 AM Pacific Daylight Time

Name: 200515R1\_4, Date: 15-May-2020, Time: 10:34:04, ID: B0D0306-BLK1 Method Blank 10, Description: Method Blank

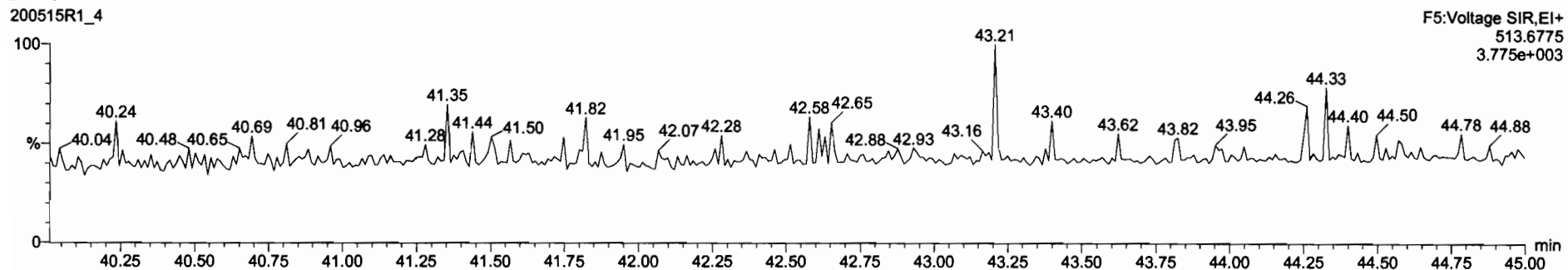
OCDF



13C-OCDF



DPE5

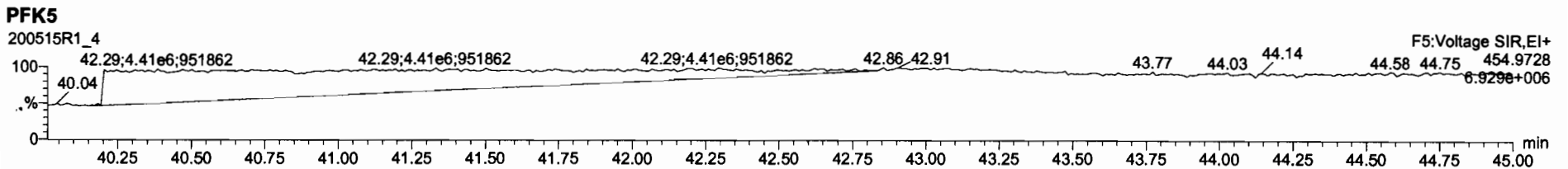
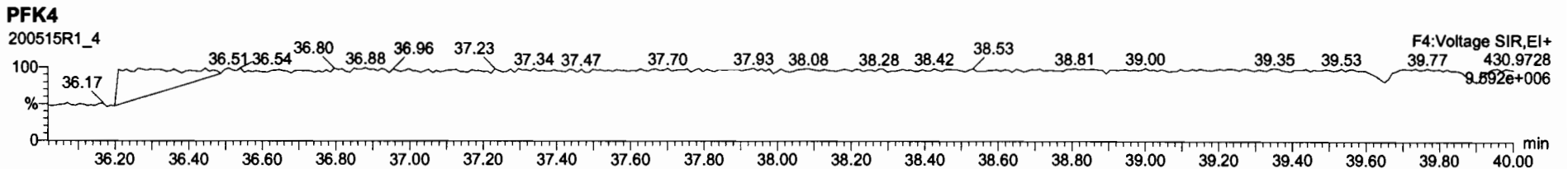
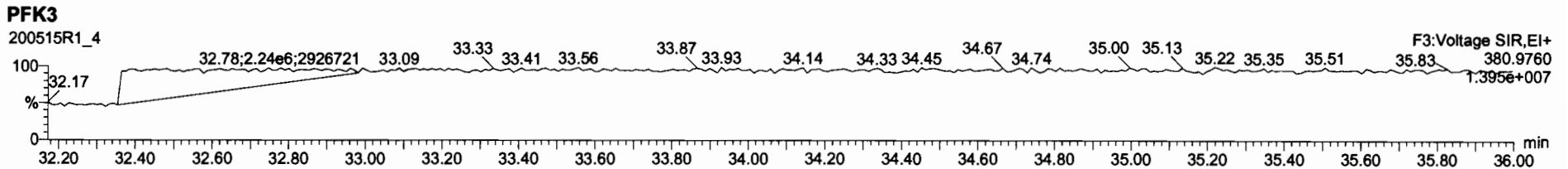
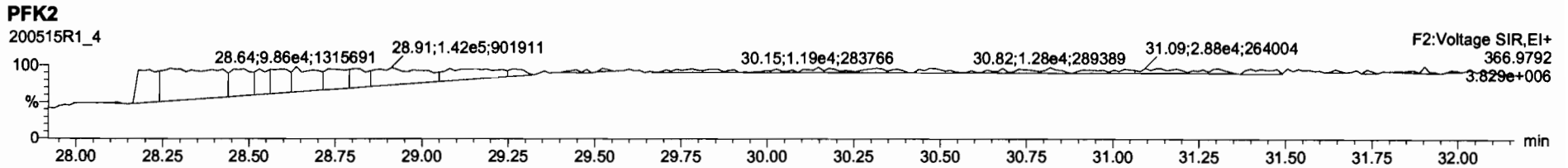
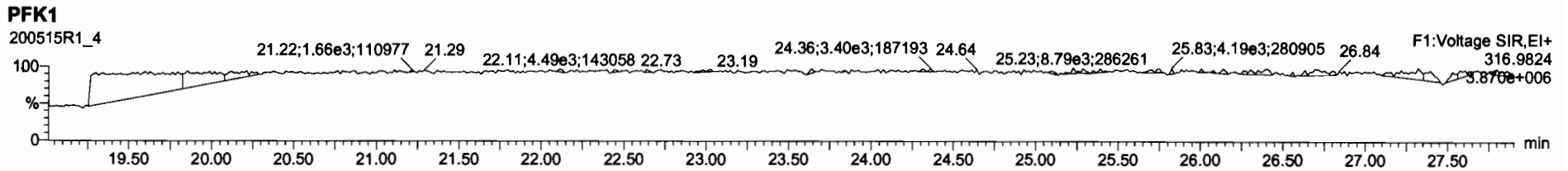


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Last Altered: Friday, May 15, 2020 11:20:31 AM Pacific Daylight Time

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





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  
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 Printed: Friday, May 15, 2020 10:33:54 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-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

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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

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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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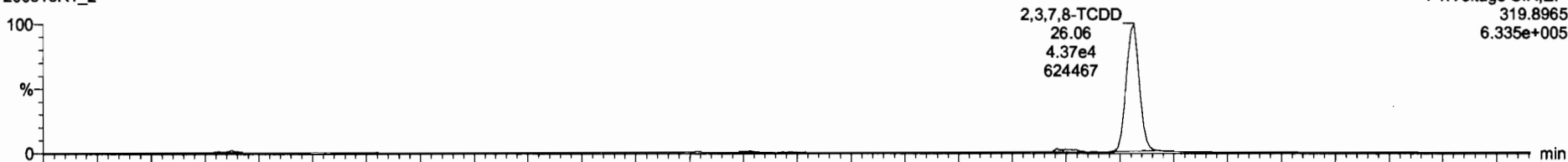
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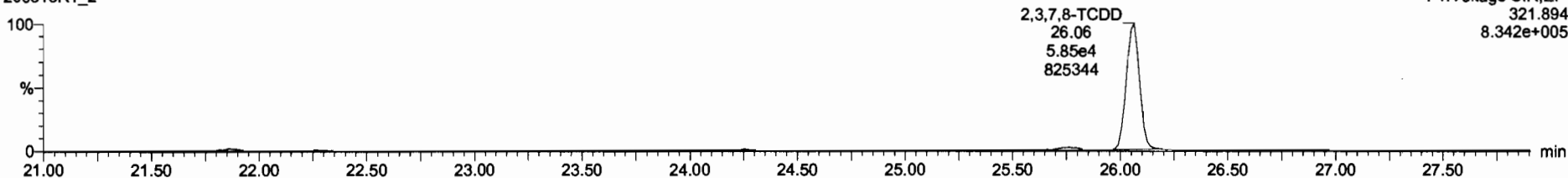
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**2,3,7,8-TCDD**

200515R1\_2

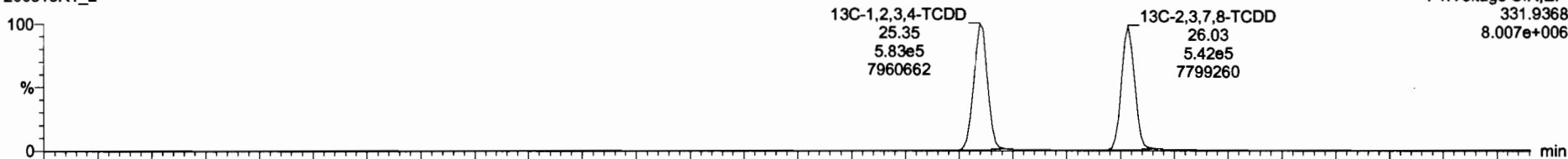


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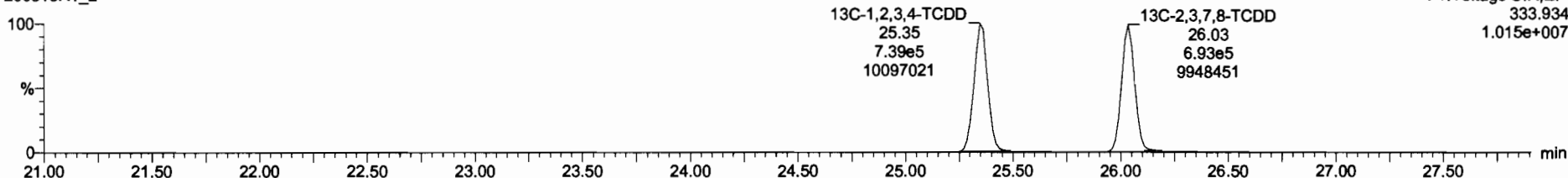


**13C-2,3,7,8-TCDD**

200515R1\_2



200515R1\_2



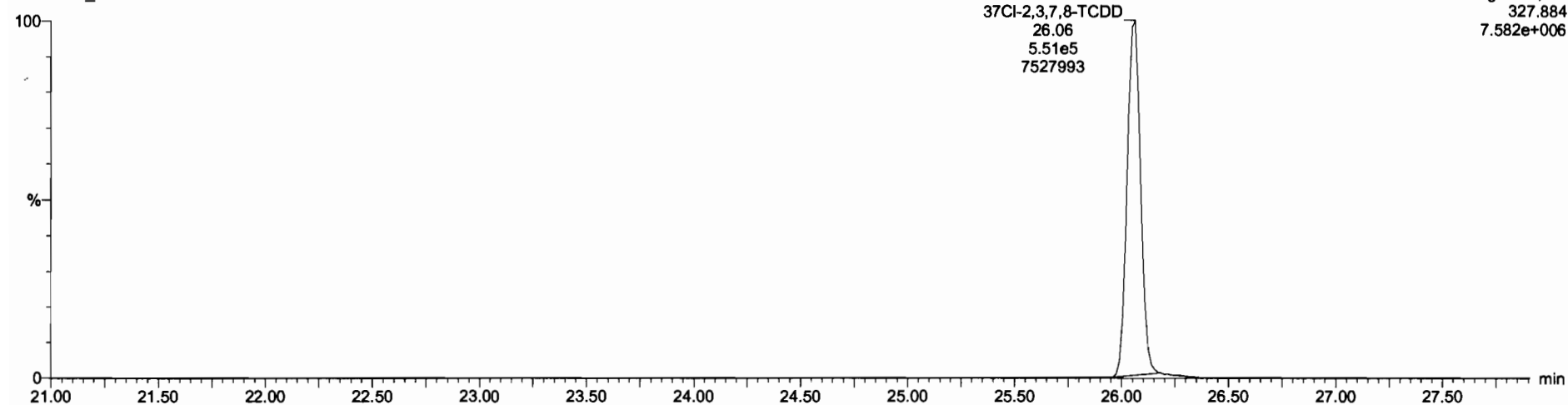
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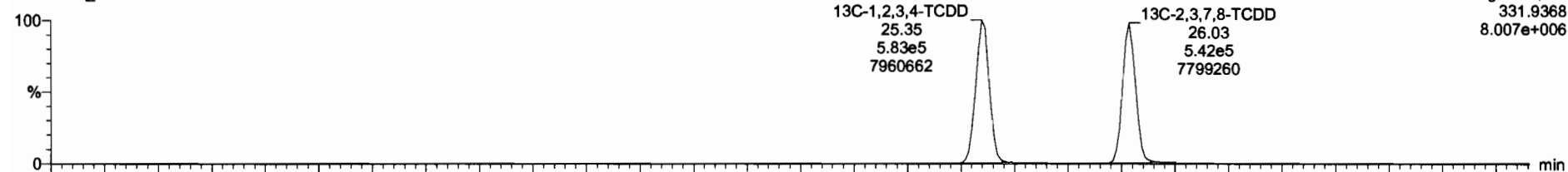
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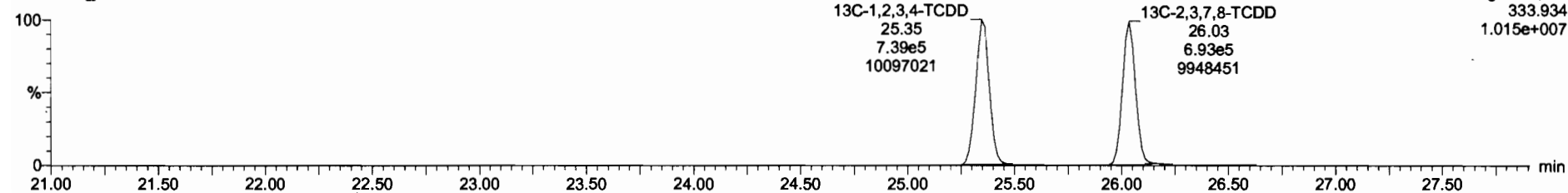


**13C-1,2,3,4-TCDD**

200515R1\_2



200515R1\_2



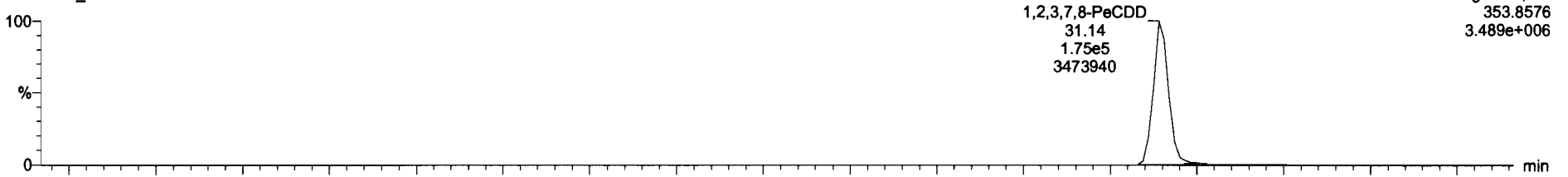
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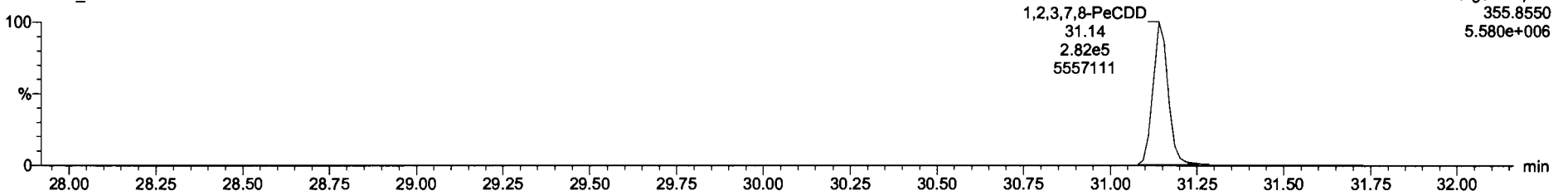
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**1,2,3,7,8-PeCDD**

200515R1\_2

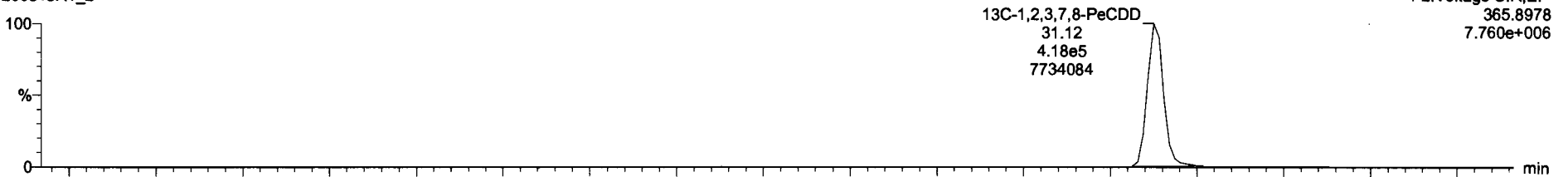


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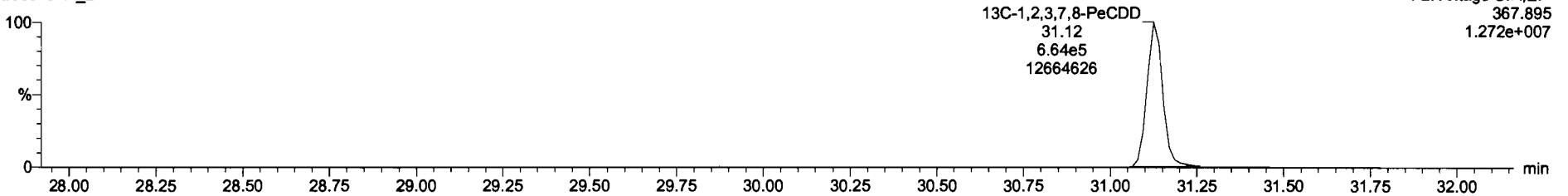


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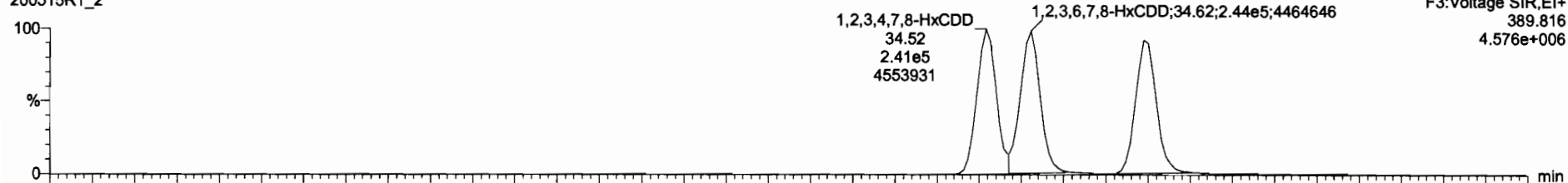
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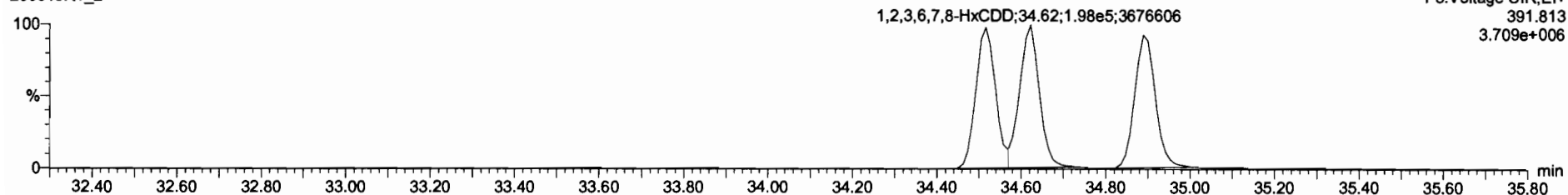
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**1,2,3,4,7,8-HxCDD**

200515R1\_2

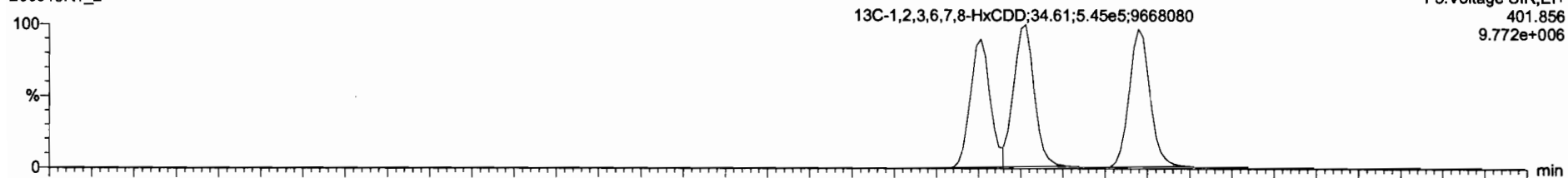


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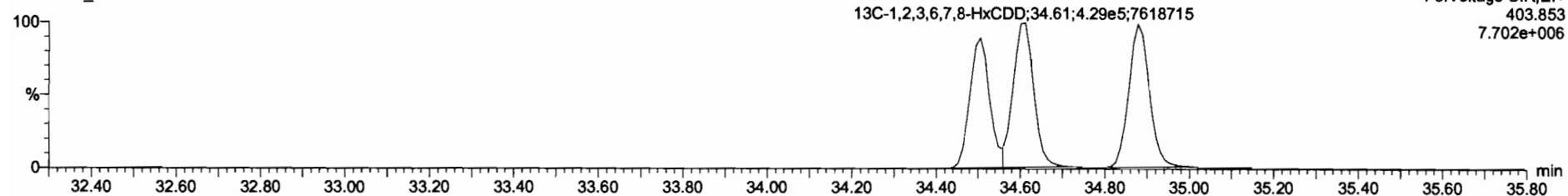


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200515R1\_2



200515R1\_2



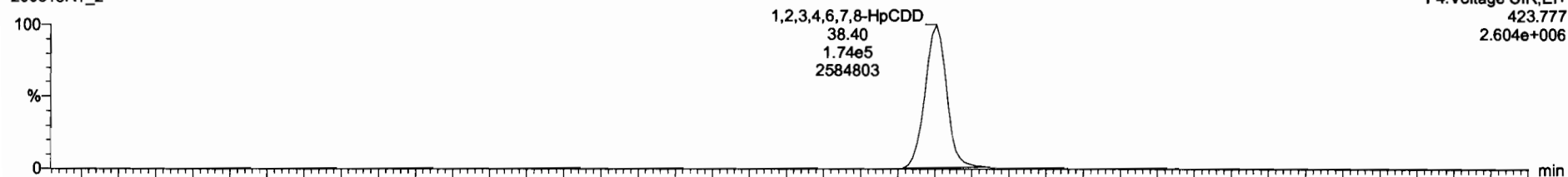
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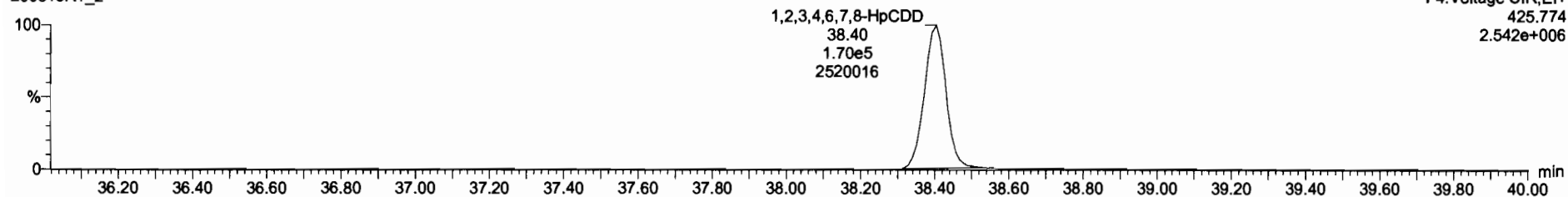
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**1,2,3,4,6,7,8-HpCDD**

200515R1\_2

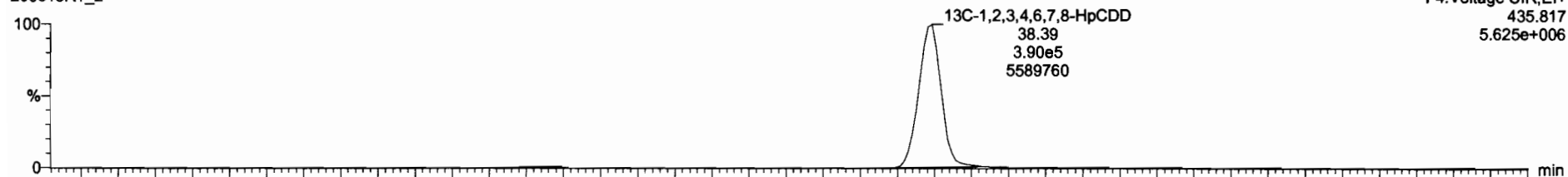


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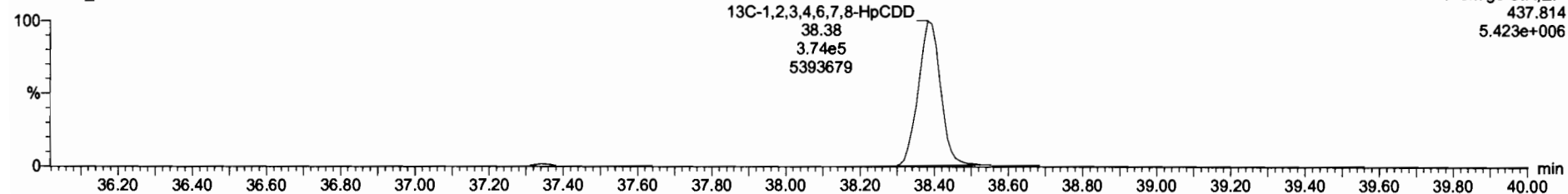


**13C-1,2,3,4,6,7,8-HpCDD**

200515R1\_2



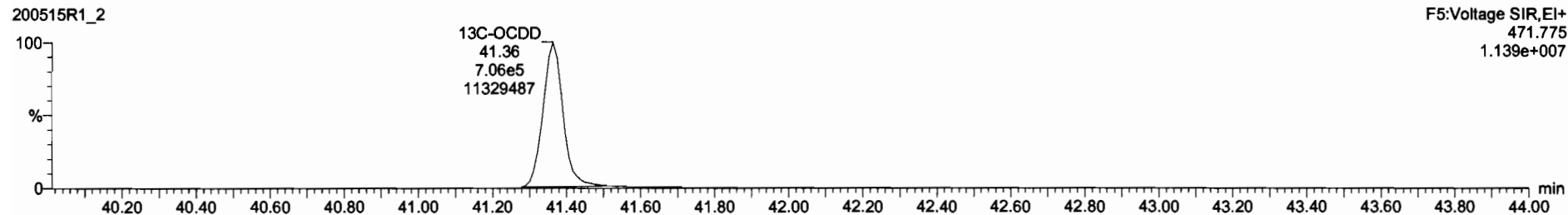
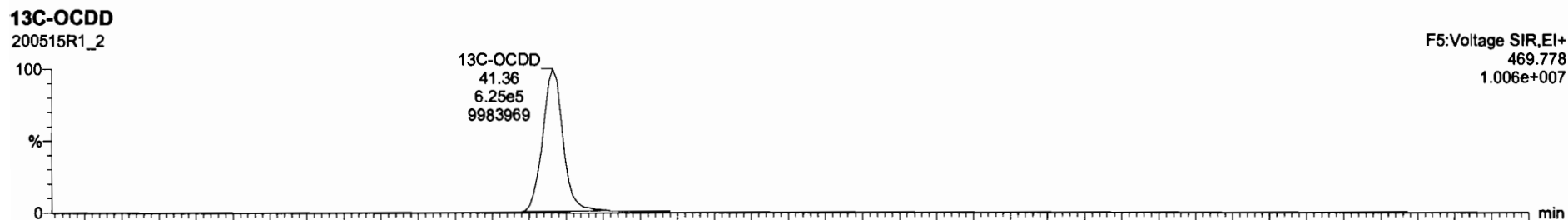
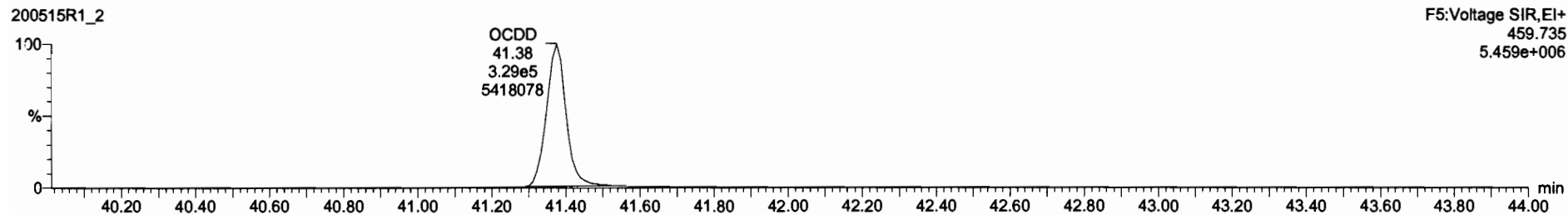
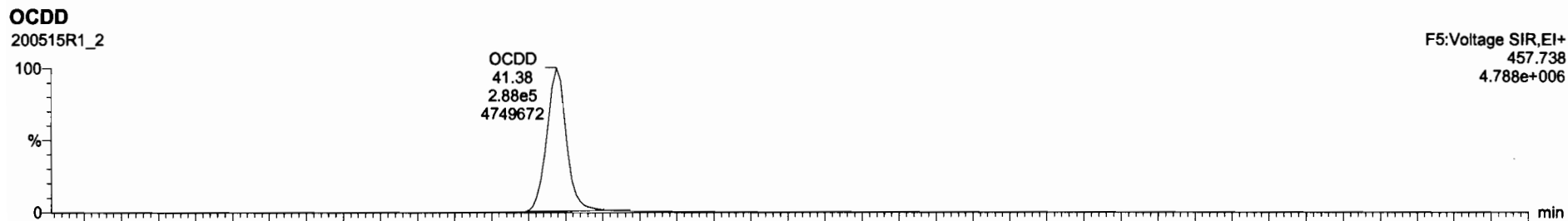
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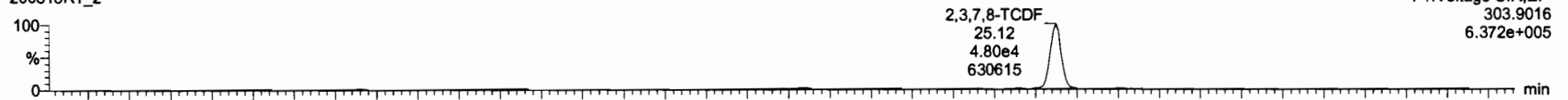
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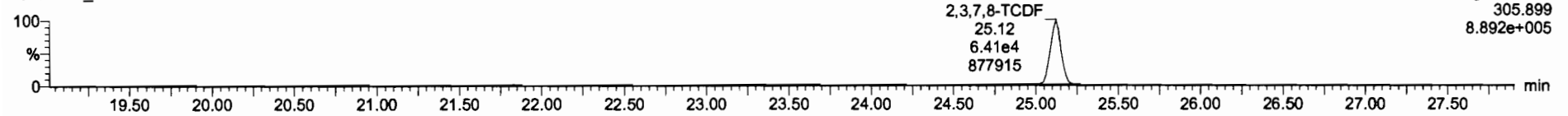
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**2,3,7,8-TCDF**

200515R1\_2

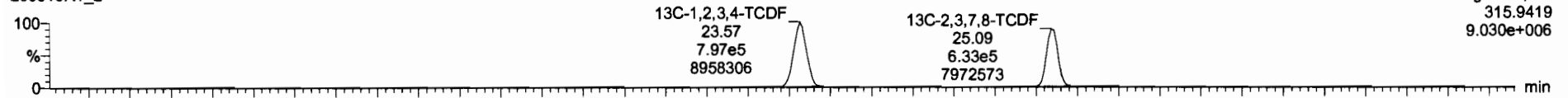


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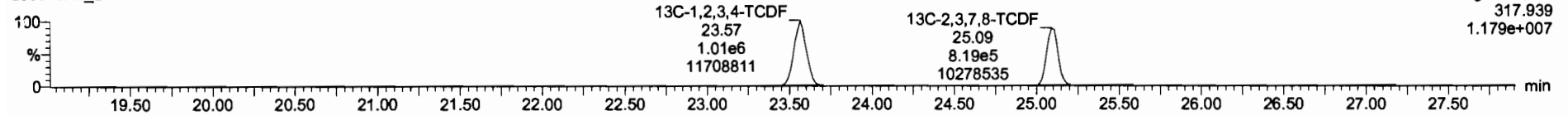


**13C-2,3,7,8-TCDF**

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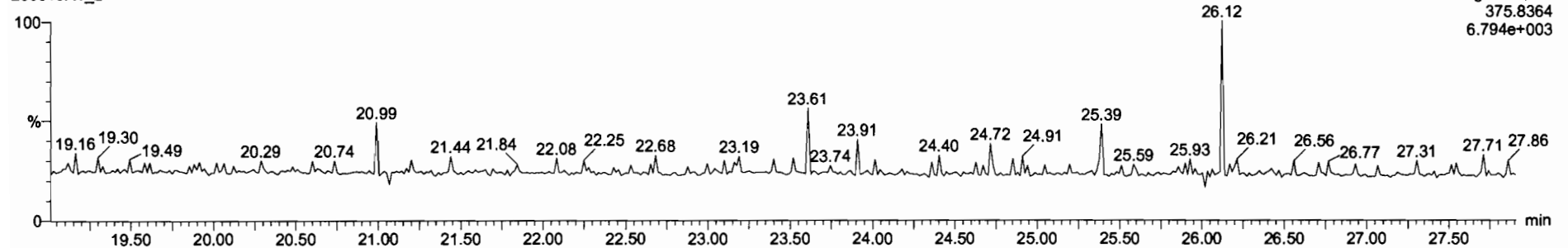


200515R1\_2



**DPE1**

200515R1\_2



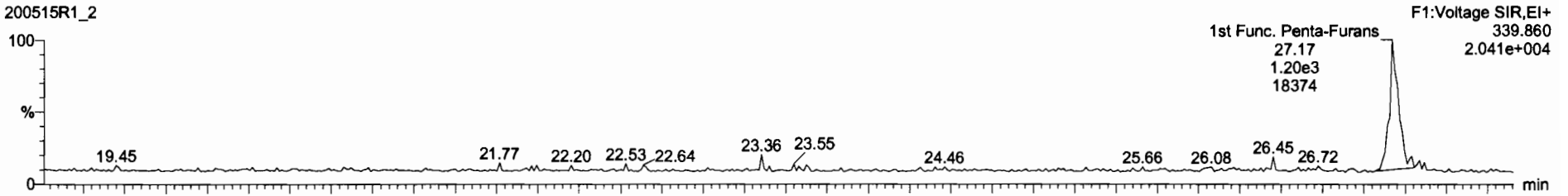
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Printed: Friday, May 15, 2020 10:33:21 AM Pacific Daylight Time

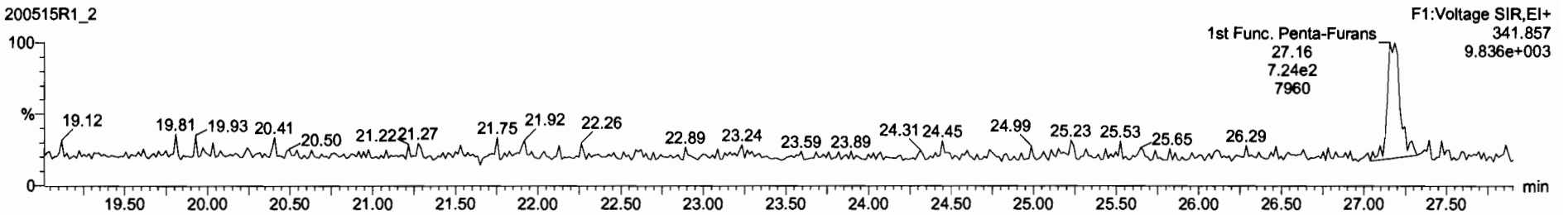
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1st Func. Penta-Furans

200515R1\_2

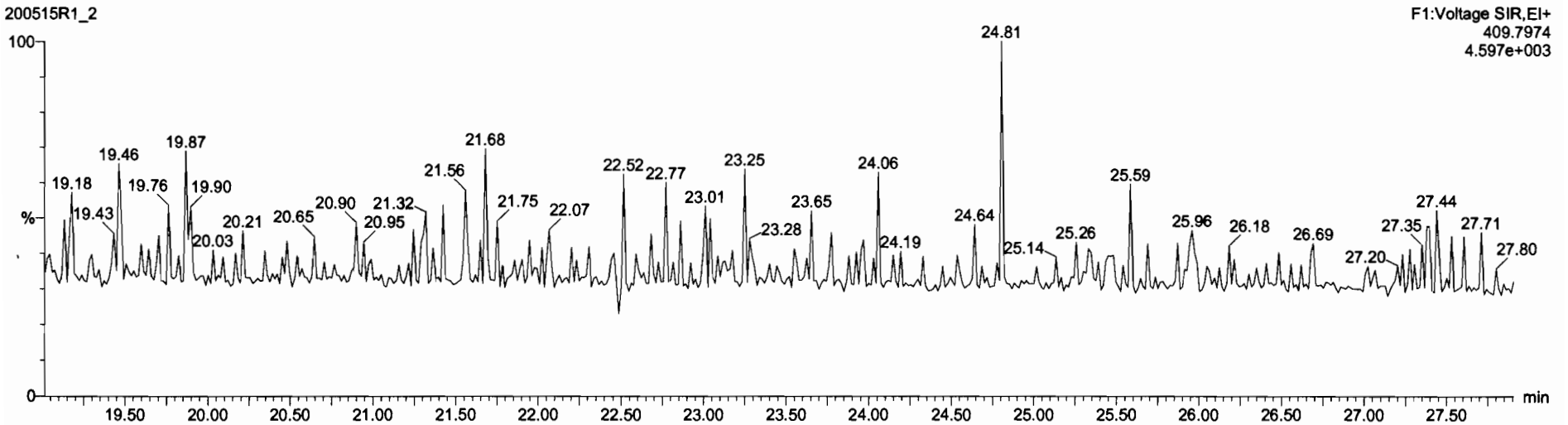


200515R1\_2



DPE6

200515R1\_2



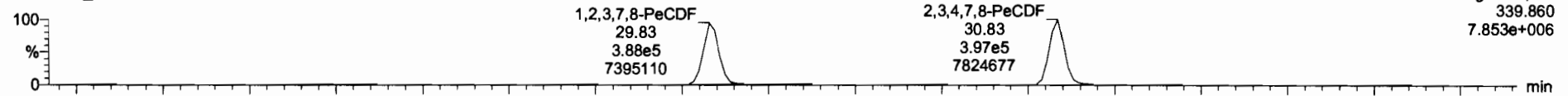
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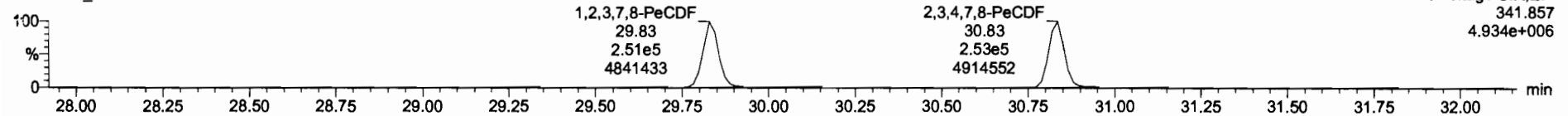
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**1,2,3,7,8-PeCDF**

200515R1\_2

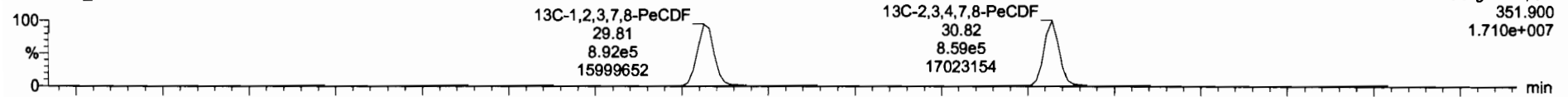


200515R1\_2

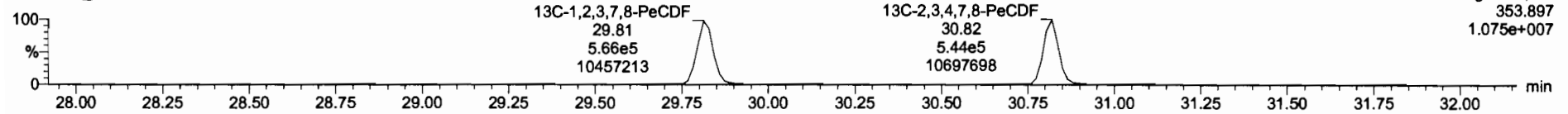


**13C-1,2,3,7,8-PeCDF**

200515R1\_2

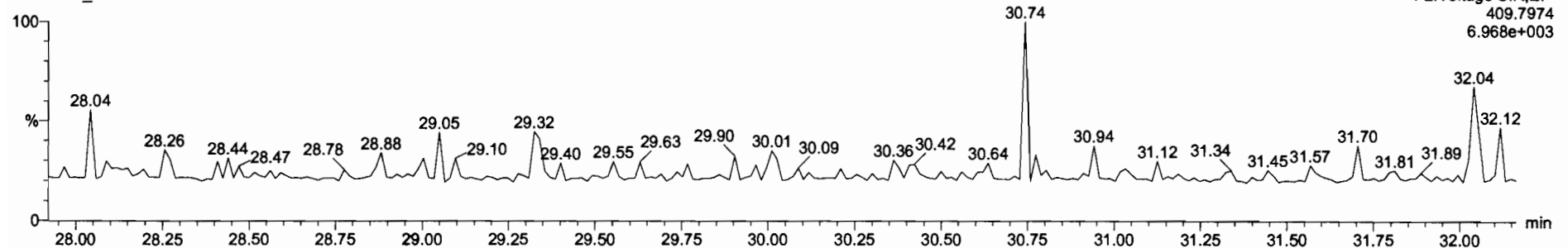


200515R1\_2



**DPE2**

200515R1\_2

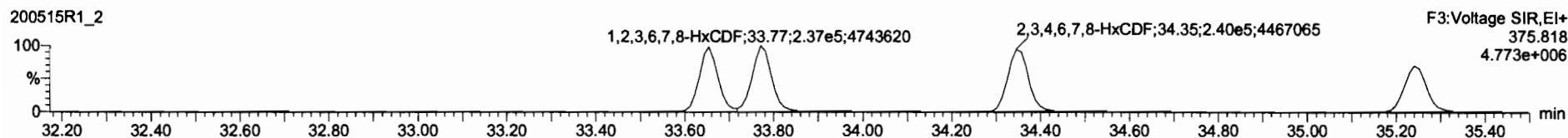
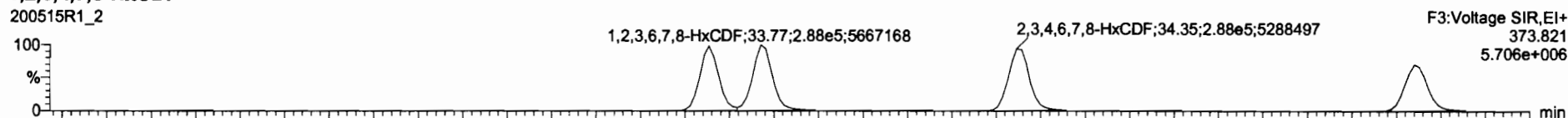


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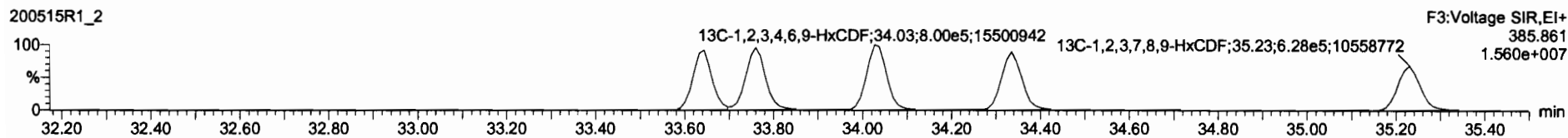
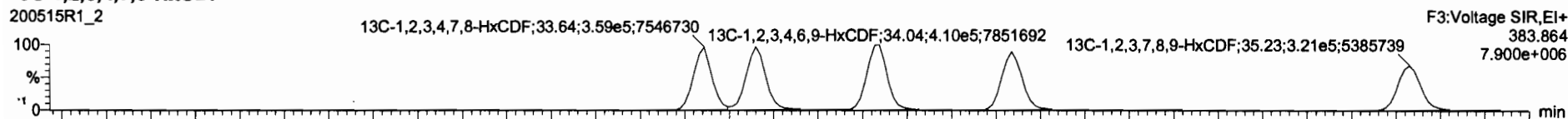
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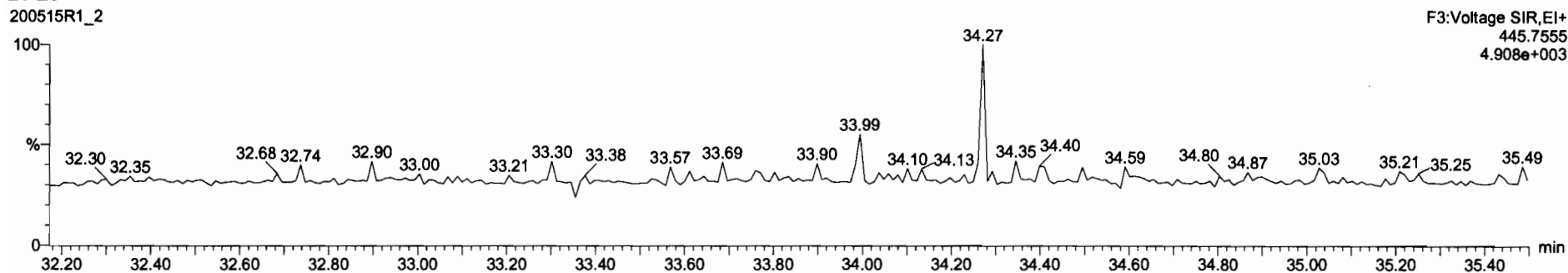
**1,2,3,4,7,8-HxCDF**



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



**DPE3**



Dataset: Untitled

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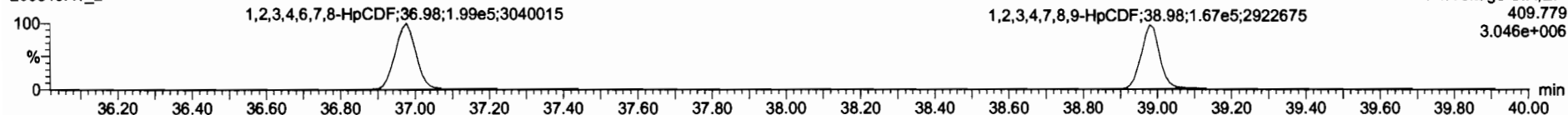
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**1,2,3,4,6,7,8-HpCDF**

200515R1\_2

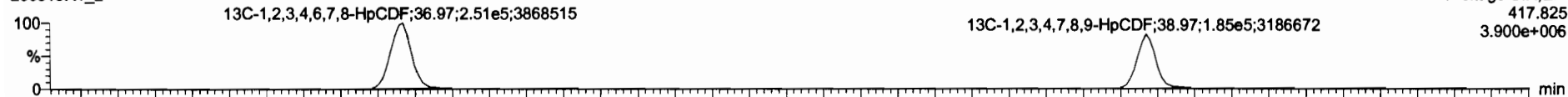


200515R1\_2

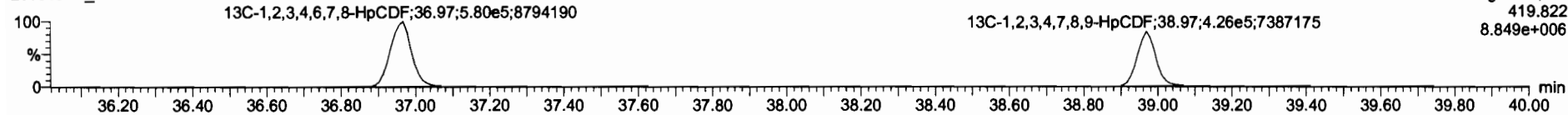


**13C-1,2,3,4,6,7,8-HpCDF**

200515R1\_2

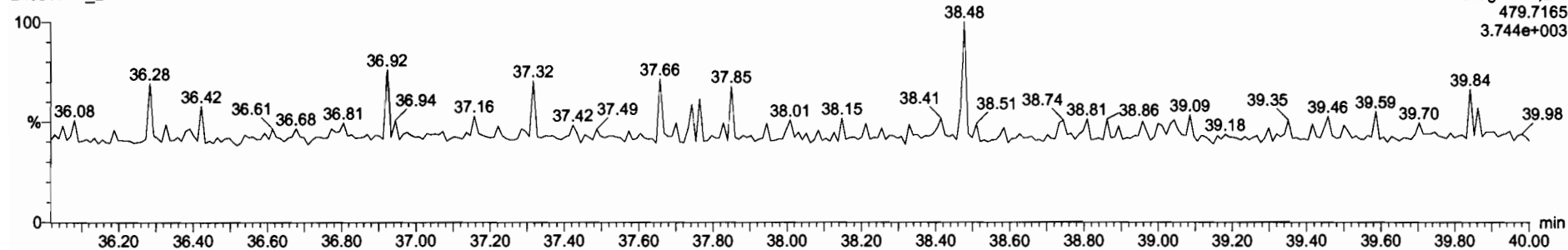


200515R1\_2



**DPE4**

200515R1\_2

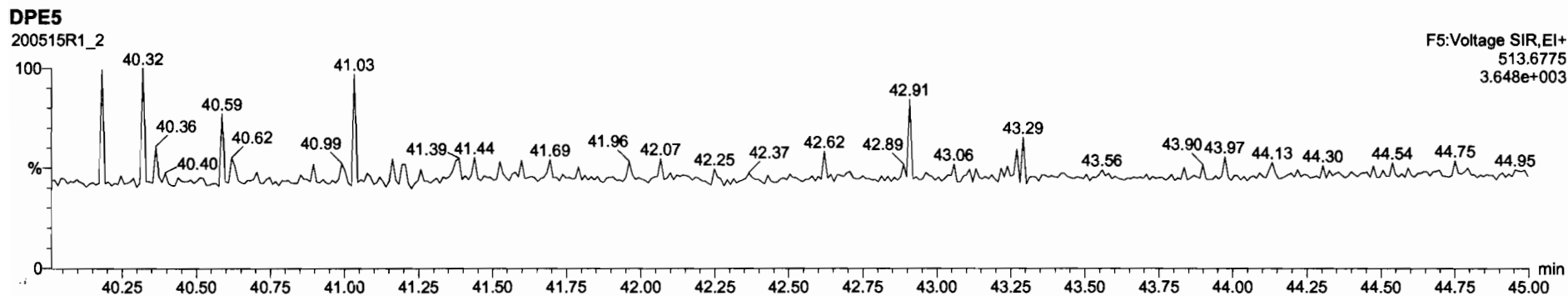
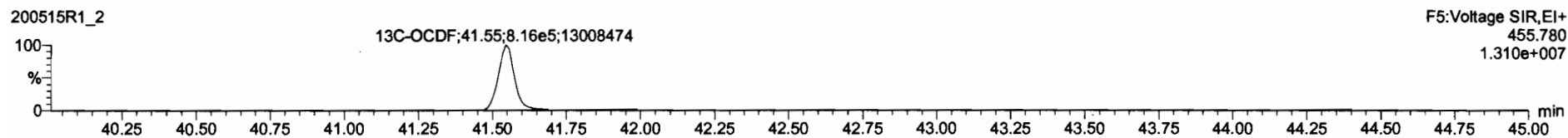
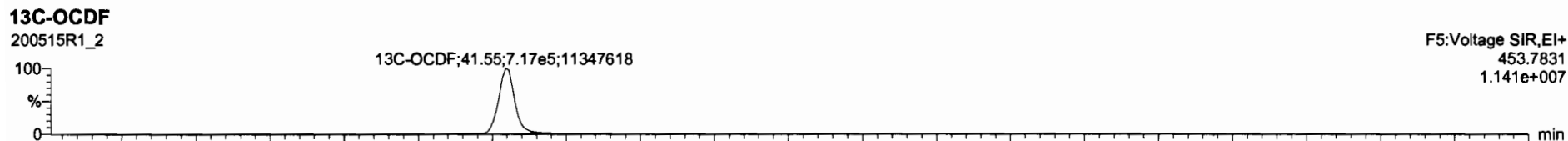
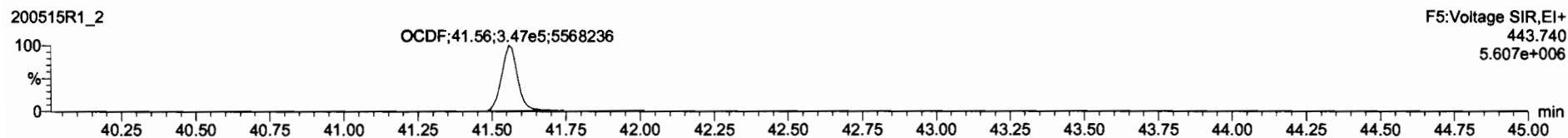
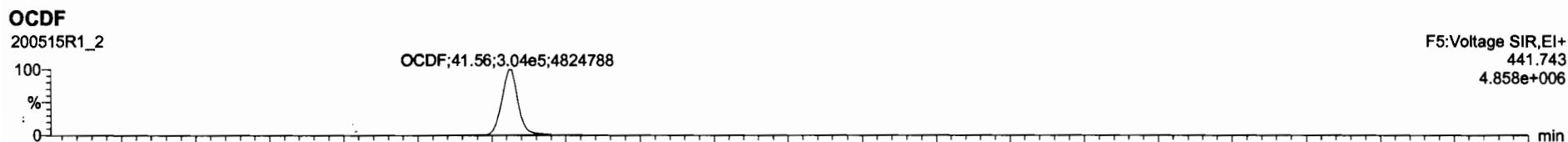




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Printed: Friday, May 15, 2020 10:33:21 AM Pacific Daylight Time

Name: 200515R1\_2, Date: 15-May-2020, Time: 09:01:39, ID: B0D0306-BS1 OPR 10, Description: OPR

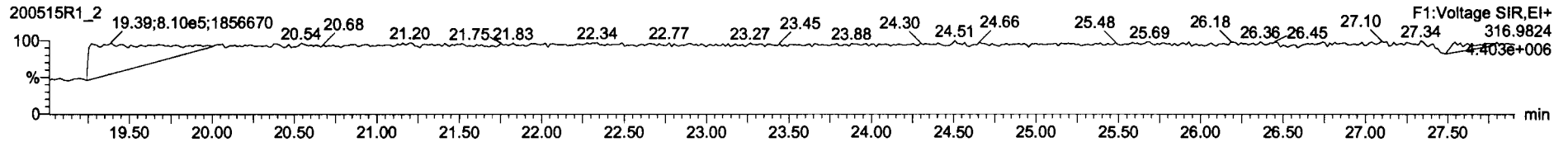


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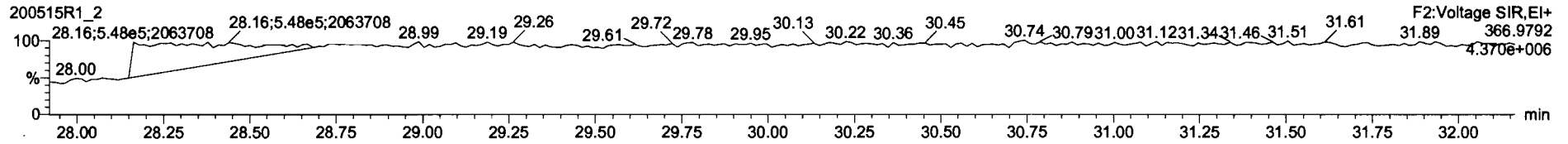
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Printed: Friday, May 15, 2020 10:33:21 AM Pacific Daylight Time

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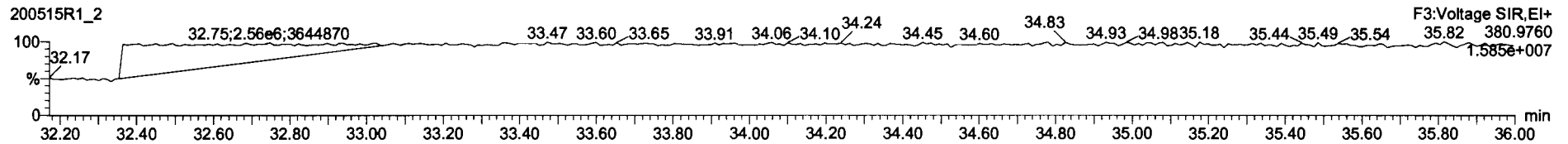
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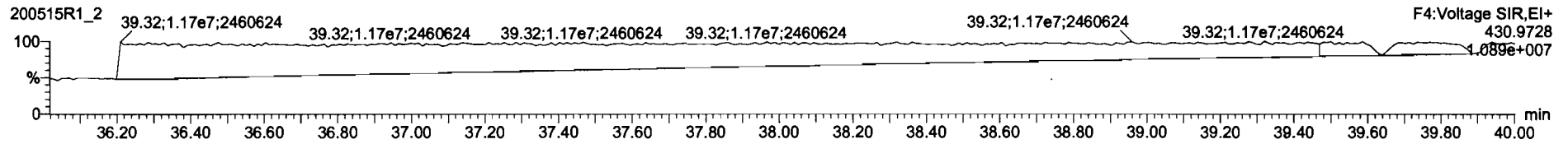
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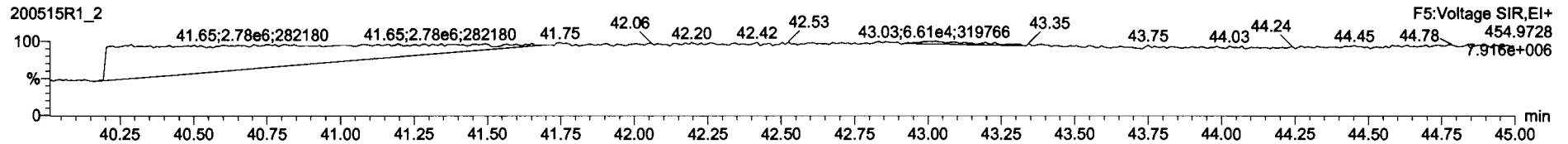
**PFK3**



**PFK4**



**PFK5**



Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_5B.qld

Last Altered: Friday, June 05, 2020 11:07:36 Pacific Daylight Time  
Printed: Friday, June 05, 2020 11:08:53 Pacific Daylight Time

DB 6/5/20 C:706/05/2020

Method: Untitled 27 Apr 2020 14:17:24

Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200604D1\_5, Date: 04-Jun-2020, Time: 15:00:59, ID: 2000945-01 PDI-146SC-A-00-01-200426 14.29, Description: PDI-146SC-A-00-01-200426

	# Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	2.86e2	0.81	NO	0.987	10.057	26.127	26.13	1.001	1.001	0.39978		0.178	0.400
2	2 1,2,3,4,7,8-PeCDD	3.71e2	0.83	YES	0.982	10.057	30.669	30.67	1.001	1.001	0.66868		0.169	0.597
3	3 1,2,3,4,7,8-HxCDD	3.99e2	1.25	NO	1.17	10.057	33.971	33.96	1.000	1.000	0.79400		0.251	0.794
4	4 1,2,3,6,7,8-HxCDD	1.64e3	1.21	NO	1.04	10.057	34.060	34.08	1.000	1.001	3.1870		0.228	3.19
5	5 1,2,3,7,8,9-HxCDD	7.99e2	1.22	NO	1.00	10.057	34.390	34.37	1.001	1.000	1.6539		0.278	1.65
6	6 1,2,3,4,6,7,8-HpCDD	3.81e4	1.05	NO	0.992	10.057	37.834	37.85	1.000	1.001	97.873		0.667	97.9
7	7 OCDD	3.15e5	0.88	NO	1.04	10.057	41.093	41.10	1.000	1.000	1014.6		0.596	1010
8	8 2,3,7,8-TCDF	6.68e3	0.80	NO	0.882	10.057	25.326	25.33	1.001	1.001	8.2803	(7.16)	0.209	8.28
9	9 1,2,3,7,8-PeCDF	8.52e3	1.54	NO	1.05	10.057	29.482	29.48	1.001	1.001	9.9457		0.111	9.95
10	10 2,3,4,7,8-PeCDF	4.03e3	1.41	NO	1.06	10.057	30.367	30.37	1.000	1.000	4.8516		0.120	4.85
11	11 1,2,3,4,7,8-HxCDF	1.35e4	1.22	NO	1.08	10.057	33.061	33.08	1.000	1.001	20.329		0.248	20.3
12	12 1,2,3,6,7,8-HxCDF	4.04e3	1.20	NO	1.04	10.057	33.203	33.20	1.000	1.000	6.0878		0.258	6.09
13	13 2,3,4,6,7,8-HxCDF	1.70e3	1.20	NO	1.11	10.057	33.819	33.80	1.001	1.000	2.6052		0.278	2.61
14	14 1,2,3,7,8,9-HxCDF	7.02e2	1.06	NO	1.06	10.057	34.729	34.76	1.000	1.001	1.2393		0.362	1.24
15	15 1,2,3,4,6,7,8-HpCDF	1.51e4	1.03	NO	1.13	10.057	36.598	36.58	1.001	1.001	28.092		0.273	28.1
16	16 1,2,3,4,7,8,9-HpCDF	2.08e3	1.09	NO	1.33	10.057	38.361	38.37	1.000	1.000	4.4374		0.264	4.44
17	17 OCDF	1.84e4	0.88	NO	0.933	10.057	41.313	41.32	1.000	1.000	53.102		0.347	53.1
18	18 13C-2,3,7,8-TCDD	1.44e5	0.77	NO	1.21	10.057	26.195	26.10	1.026	1.022	179.52	90.3	0.474	
19	19 13C-1,2,3,7,8-PeCDD	1.12e5	0.62	NO	0.996	10.057	30.688	30.65	1.202	1.200	169.52	85.2	0.343	
20	20 13C-1,2,3,4,7,8-HxCDD	8.51e4	1.26	NO	0.679	10.057	33.947	33.96	1.014	1.014	187.35	94.2	0.548	
21	21 13C-1,2,3,6,7,8-HxCDD	9.85e4	1.27	NO	0.850	10.057	34.057	34.06	1.017	1.017	173.22	87.1	0.437	
22	22 13C-1,2,3,7,8,9-HxCDD	9.58e4	1.30	NO	0.798	10.057	34.328	34.36	1.025	1.026	179.37	90.2	0.466	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.80e4	1.04	NO	0.697	10.057	37.797	37.82	1.129	1.130	167.31	84.1	0.559	
24	24 13C-OCDD	1.19e5	0.89	NO	0.579	10.057	40.823	41.09	1.219	1.227	307.60	77.3	0.639	
25	25 13C-2,3,7,8-TCDF	1.82e5	0.77	NO	1.13	10.057	25.276	25.30	0.990	0.991	172.24	86.6	0.588	
26	26 13C-1,2,3,7,8-PeCDF	1.63e5	1.64	NO	0.996	10.057	29.506	29.46	1.156	1.154	174.65	87.8	0.522	
27	27 13C-2,3,4,7,8-PeCDF	1.56e5	1.63	NO	0.969	10.057	30.407	30.37	1.191	1.189	171.62	86.3	0.536	
28	28 13C-1,2,3,4,7,8-HxCDF	1.22e5	0.50	NO	1.06	10.057	33.076	33.06	0.988	0.988	172.30	86.6	0.589	
29	29 13C-1,2,3,6,7,8-HxCDF	1.27e5	0.51	NO	1.18	10.057	33.210	33.19	0.992	0.991	160.86	80.9	0.530	
30	30 13C-2,3,4,6,7,8-HxCDF	1.17e5	0.49	NO	1.06	10.057	33.783	33.78	1.009	1.009	164.84	82.9	0.589	
31	31 13C-1,2,3,7,8,9-HxCDF	1.07e5	0.50	NO	0.879	10.057	34.683	34.73	1.036	1.037	181.08	91.1	0.708	

Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_5B.qld

Last Altered: Friday, June 05, 2020 11:07:36 Pacific Daylight Time

Printed: Friday, June 05, 2020 11:08:53 Pacific Daylight Time

Name: 200604D1\_5, Date: 04-Jun-2020, Time: 15:00:59, ID: 2000945-01 PDI-146SC-A-00-01-200426 14.29, Description: PDI-146SC-A-00-01-200426

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	9.48e4	0.42	NO	0.893	10.057	36.391	36.56	1.087	1.092	158.69	79.8	0.521	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.98e4	0.41	NO	0.613	10.057	38.399	38.36	1.147	1.146	170.09	85.5	0.757	
34	34 13C-OCDF	1.48e5	0.86	NO	0.741	10.057	40.977	41.31	1.224	1.234	298.53	75.1	0.400	
35	35 37Cl-2,3,7,8-TCDD	5.30e4			1.18	10.057	26.192	26.11	1.026	1.023	67.655	85.1	0.0892	
36	36 13C-1,2,3,4-TCDD	1.32e5	0.79	NO	1.00	10.057	25.480	25.53	1.000	1.000	198.86	100	0.572	
37	37 13C-1,2,3,4-TCDF	1.86e5	0.77	NO	1.00	10.057	24.020	24.08	1.000	1.000	198.86	100	0.663	
38	38 13C-1,2,3,4,6,9-HxCDF	1.33e5	0.51	NO	1.00	10.057	33.530	33.48	1.000	1.000	198.86	100	0.623	
39	39 Total Tetra-Dioxins				0.987	10.057	24.620		0.000		3.0893		0.178	4.14
40	40 Total Penta-Dioxins				0.982	10.057	29.960		0.000		14.534		0.169	16.9
41	41 Total Hexa-Dioxins				1.04	10.057	33.635		0.000		54.044		0.259	55.6
42	42 Total Hepta-Dioxins				0.992	10.057	37.640		0.000		222.91		0.667	223
43	43 Total Tetra-Furans				0.882	10.057	23.610		0.000		32.877		0.209	37.4
44	44 1st Func. Penta-Furans				1.05	10.057	27.090		0.000		6.5926		0.0547	6.59
45	45 Total Penta-Furans				1.05	10.057	29.275		0.000		30.593		0.116	34.3
46	46 Total Hexa-Furans				1.11	10.057	33.555		0.000		55.759		0.274	55.8
47	47 Total Hepta-Furans				1.13	10.057	37.835		0.000		71.650		0.289	71.7

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Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_5B.qld

Last Altered: Friday, June 05, 2020 11:07:36 Pacific Daylight Time

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Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200604D1\_5, Date: 04-Jun-2020, Time: 15:00:59, ID: 2000945-01 PDI-146SC-A-00-01-200426 14.29, Description: PDI-146SC-A-00-01-200426

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.67	5.283e3	6.218e3	4.113e2	5.128e2	0.80	NO	9.241e2	1.2936	1.2936	0.178
2	Total Tetra-Dioxins	23.05	1.924e3	3.230e3	1.418e2	1.965e2	0.72	NO	3.383e2	0.47356	0.47356	0.178
3	Total Tetra-Dioxins	23.45	1.194e3	8.150e2	6.216e1	7.280e1	0.85	NO	1.350e2	0.18892	0.18892	0.178
4	Total Tetra-Dioxins	24.20	8.860e2	1.064e3	4.707e1	5.584e1	0.84	NO	1.029e2	0.14406	0.14406	0.178
5	Total Tetra-Dioxins	24.43	1.051e3	1.738e3	7.014e1	9.244e1	0.76	NO	1.626e2	0.22759	0.22759	0.178
6	Total Tetra-Dioxins	24.61	2.252e3	2.938e3	1.197e2	1.388e2	0.86	NO	2.584e2	0.36178	0.36178	0.178
7	Total Tetra-Dioxins	25.16	9.970e2	1.421e3	6.257e1	6.100e1	1.03	YES	0.000e0	0.00000	0.15115	0.178
8	Total Tetra-Dioxins	25.87	4.951e3	5.596e3	3.477e2	3.611e2	0.96	YES	0.000e0	0.00000	0.89463	0.178
9	2,3,7,8-TCDD	26.13	1.865e3	2.627e3	1.275e2	1.581e2	0.81	NO	2.856e2	0.39978	0.39978	0.178

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.60	1.663e4	2.658e4	1.114e3	1.856e3	0.60	NO	2.970e3	5.3592	5.3592	0.169
2	Total Penta-Dioxins	29.04	1.878e3	3.520e3	9.407e1	2.087e2	0.45	YES	0.000e0	0.00000	0.43917	0.169
3	Total Penta-Dioxins	29.50	1.784e4	3.089e4	9.558e2	1.536e3	0.62	NO	2.492e3	4.4962	4.4962	0.169
4	Total Penta-Dioxins	29.66	2.903e3	3.813e3	1.299e2	1.918e2	0.68	NO	3.217e2	0.58044	0.58044	0.169
5	Total Penta-Dioxins	29.74	1.234e4	2.037e4	6.489e2	1.104e3	0.59	NO	1.753e3	3.1637	3.1637	0.169
6	Total Penta-Dioxins	29.98	1.811e3	4.155e3	1.710e2	3.546e2	0.48	YES	0.000e0	0.00000	0.79828	0.169
7	Total Penta-Dioxins	30.25	3.969e3	6.476e3	2.023e2	3.155e2	0.64	NO	5.178e2	0.93440	0.93440	0.169
8	1,2,3,7,8-PeCDD	30.67	3.147e3	3.750e3	1.676e2	2.030e2	0.83	YES	3.706e2	0.00000	0.59700	0.169
9	Total Penta-Dioxins	30.73	9.850e2	1.334e3	3.775e1	7.389e1	0.51	YES	0.000e0	0.00000	0.17623	0.169
10	Total Penta-Dioxins	31.01	1.403e3	1.899e3	6.619e1	1.314e2	0.50	YES	0.000e0	0.00000	0.30900	0.169

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Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_5B.qld

Last Altered: Friday, June 05, 2020 11:07:36 Pacific Daylight Time

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Name: 200604D1\_5, Date: 04-Jun-2020, Time: 15:00:59, ID: 2000945-01 PDI-146SC-A-00-01-200426 14.29, Description: PDI-146SC-A-00-01-200426

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.44	7.285e4	6.307e4	3.573e3	2.987e3	1.20	NO	6.560e3	13.516	13.516	0.259
2	Total Hexa-Dioxins	33.01	1.093e5	8.334e4	5.872e3	4.431e3	1.33	NO	1.030e4	21.227	21.227	0.259
3	Total Hexa-Dioxins	33.27	5.778e4	4.533e4	3.707e3	2.925e3	1.27	NO	6.633e3	13.666	13.666	0.259
4	Total Hexa-Dioxins	33.39	4.586e3	4.241e3	2.041e2	2.023e2	1.01	YES	0.000e0	0.00000	0.75961	0.259
5	1,2,3,4,7,8-HxCDD	33.96	3.961e3	3.594e3	2.220e2	1.770e2	1.25	NO	3.990e2	0.79400	0.79400	0.251
6	1,2,3,6,7,8-HxCDD	34.08	1.533e4	1.323e4	8.941e2	7.417e2	1.21	NO	1.636e3	3.1870	3.1870	0.228
7	Total Hexa-Dioxins	34.27	4.803e3	4.163e3	2.080e2	2.286e2	0.91	YES	0.000e0	0.00000	0.77419	0.259
8	1,2,3,7,8,9-HxCDD	34.37	6.305e3	5.405e3	4.392e2	3.602e2	1.22	NO	7.994e2	1.6539	1.6539	0.278

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.98	4.025e5	3.869e5	2.467e4	2.399e4	1.03	NO	4.865e4	125.04	125.04	0.667
2	1,2,3,4,6,7,8-HpCDD	37.85	3.695e5	3.414e5	1.952e4	1.857e4	1.05	NO	3.808e4	97.873	97.873	0.667

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Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_5B.qld

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Name: 200604D1\_5, Date: 04-Jun-2020, Time: 15:00:59, ID: 2000945-01 PDI-146SC-A-00-01-200426 14.29, Description: PDI-146SC-A-00-01-200426

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.52	1.517e3	2.027e3	1.389e2	1.698e2	0.82	NO	3.087e2	0.38295	0.38295	0.209
2	Total Tetra-Furans	21.03	1.801e3	2.875e3	1.619e2	2.285e2	0.71	NO	3.904e2	0.48419	0.48419	0.209
3	Total Tetra-Furans	21.72	9.869e3	1.117e4	8.431e2	1.025e3	0.82	NO	1.868e3	2.3175	2.3175	0.209
4	Total Tetra-Furans	22.31	4.279e3	3.929e3	4.995e2	5.751e2	0.87	NO	1.075e3	1.3329	1.3329	0.209
5	Total Tetra-Furans	22.64	1.374e4	1.595e4	1.304e3	1.427e3	0.91	YES	0.000e0	0.00000	3.1325	0.209
6	Total Tetra-Furans	23.05	8.569e3	9.004e3	6.368e2	7.554e2	0.84	NO	1.392e3	1.7267	1.7267	0.209
7	Total Tetra-Furans	23.22	1.245e3	2.665e3	1.080e2	1.520e2	0.71	NO	2.600e2	0.32253	0.32253	0.209
8	Total Tetra-Furans	23.36	3.427e3	3.834e3	2.295e2	3.046e2	0.75	NO	5.341e2	0.66250	0.66250	0.209
9	Total Tetra-Furans	23.85	2.917e3	2.388e3	1.791e2	1.816e2	0.99	YES	0.000e0	0.00000	0.39877	0.209
10	Total Tetra-Furans	23.97	5.975e3	8.911e3	4.605e2	6.359e2	0.72	NO	1.096e3	1.3600	1.3600	0.209
11	Total Tetra-Furans	24.08	1.418e4	1.698e4	1.197e3	1.481e3	0.81	NO	2.678e3	3.3220	3.3220	0.209
12	Total Tetra-Furans	24.51	4.322e4	5.440e4	2.973e3	3.871e3	0.77	NO	6.844e3	8.4892	8.4892	0.209
13	Total Tetra-Furans	24.77	2.585e3	3.170e3	1.775e2	2.104e2	0.84	NO	3.879e2	0.48117	0.48117	0.209
14	Total Tetra-Furans	24.93	1.958e3	2.911e3	1.607e2	1.913e2	0.84	NO	3.519e2	0.43653	0.43653	0.209
15	Total Tetra-Furans	25.22	1.340e4	1.825e4	8.475e2	1.134e3	0.75	NO	1.981e3	2.4577	2.4577	0.209
16	2,3,7,8-TCDF	25.33	4.345e4	5.669e4	2.977e3	3.699e3	0.80	NO	6.676e3	8.2803	8.2803	0.209
17	Total Tetra-Furans	25.65	4.632e3	5.318e3	2.935e2	3.680e2	0.80	NO	6.615e2	0.82055	0.82055	0.209
18	Total Tetra-Furans	27.12	6.860e3	6.293e3	4.351e2	4.331e2	1.00	YES	0.000e0	0.00000	0.95090	0.209

**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	27.10	6.161e4	3.501e4	3.460e3	2.062e3	1.68	NO	5.522e3	6.5926	6.5926	0.0547

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## Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.43	6.550e3	5.170e3	4.975e2	4.275e2	1.16	YES	0.000e0	0.00000	0.97720	0.116
2	Total Penta-Furans	28.58	5.663e4	3.912e4	4.187e3	2.822e3	1.48	NO	7.009e3	8.3682	8.3682	0.116
3	Total Penta-Furans	29.10	1.617e4	1.288e4	1.209e3	9.308e2	1.30	YES	0.000e0	0.00000	2.3746	0.116
4	Total Penta-Furans	29.30	1.627e4	1.079e4	8.330e2	5.638e2	1.48	NO	1.397e3	1.6676	1.6676	0.116
5	1,2,3,7,8-PeCDF	29.48	1.012e5	6.986e4	5.168e3	3.350e3	1.54	NO	8.518e3	9.9457	9.9457	0.111
6	Total Penta-Furans	29.72	3.669e4	2.539e4	2.049e3	1.393e3	1.47	NO	3.442e3	4.1091	4.1091	0.116
7	Total Penta-Furans	30.29	3.360e3	2.491e3	1.665e2	1.310e2	1.27	YES	0.000e0	0.00000	0.32713	0.116
8	2,3,4,7,8-PeCDF	30.37	4.335e4	3.116e4	2.357e3	1.671e3	1.41	NO	4.028e3	4.8516	4.8516	0.120
9	Total Penta-Furans	30.41	2.780e4	1.730e4	6.797e2	4.475e2	1.52	NO	1.127e3	1.3457	1.3457	0.116
10	Total Penta-Furans	31.25	3.254e3	2.469e3	1.621e2	9.325e1	1.74	NO	2.554e2	0.30489	0.30489	0.116

## Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	31.91	2.926e4	2.085e4	1.370e3	1.090e3	1.26	NO	2.460e3	3.7339	3.7339	0.274
2	Total Hexa-Furans	32.06	6.939e4	5.897e4	3.445e3	2.819e3	1.22	NO	6.264e3	9.5093	9.5093	0.274
3	Total Hexa-Furans	32.60	7.682e4	6.142e4	3.757e3	3.032e3	1.24	NO	6.789e3	10.306	10.306	0.274
4	Total Hexa-Furans	32.98	5.213e3	3.809e3	2.687e2	2.003e2	1.34	NO	4.690e2	0.71199	0.71199	0.274
5	1,2,3,4,7,8-HxCDF	33.08	1.385e5	1.126e5	7.422e3	6.082e3	1.22	NO	1.350e4	20.329	20.329	0.248
6	1,2,3,6,7,8-HxCDF	33.20	3.982e4	3.228e4	2.200e3	1.838e3	1.20	NO	4.038e3	6.0878	6.0878	0.258
7	2,3,4,6,7,8-HxCDF	33.80	1.641e4	1.469e4	9.243e2	7.726e2	1.20	NO	1.697e3	2.6052	2.6052	0.278
8	1,2,3,7,8,9-HxCDF	34.76	1.011e4	9.676e3	3.617e2	3.400e2	1.06	NO	7.018e2	1.2393	1.2393	0.362
9	Total Hexa-Furans	34.78	1.217e4	9.701e3	4.540e2	3.603e2	1.26	NO	8.143e2	1.2362	1.2362	0.274

## Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.58	1.113e5	1.108e5	7.675e3	7.433e3	1.03	NO	1.511e4	28.092	28.092	0.273
2	Total Hepta-Furans	37.18	1.587e5	1.474e5	9.318e3	8.951e3	1.04	NO	1.827e4	39.121	39.121	0.289
3	1,2,3,4,7,8,9-HpCDF	38.37	2.016e4	2.000e4	1.083e3	9.948e2	1.09	NO	2.077e3	4.4374	4.4374	0.264



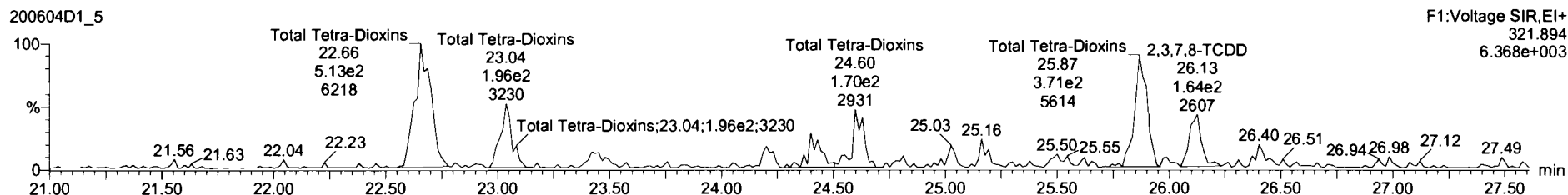
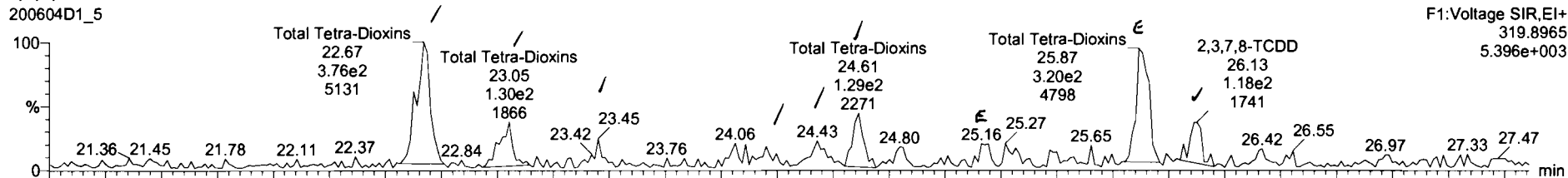
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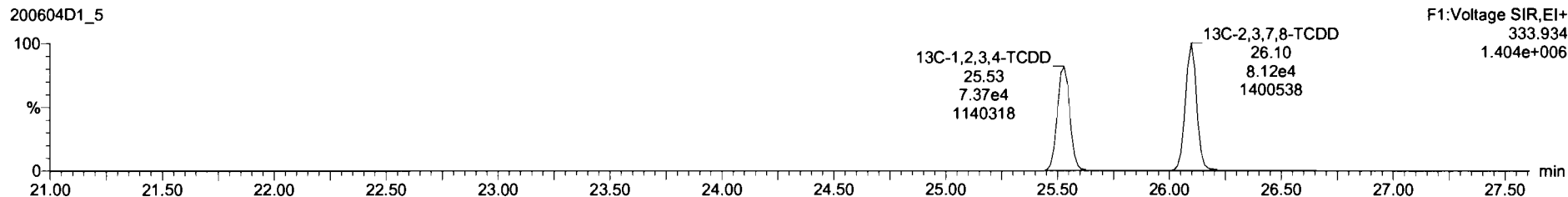
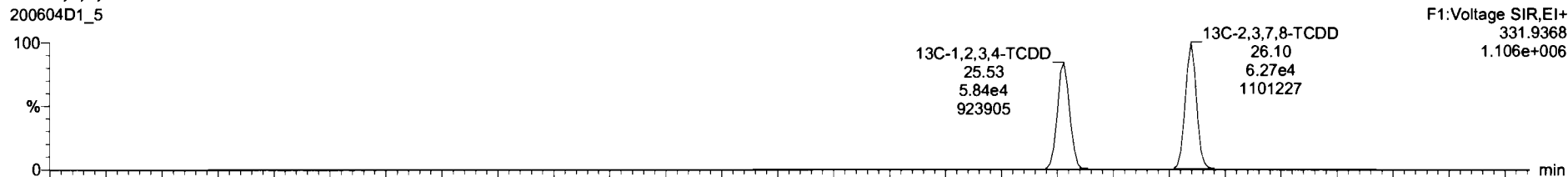
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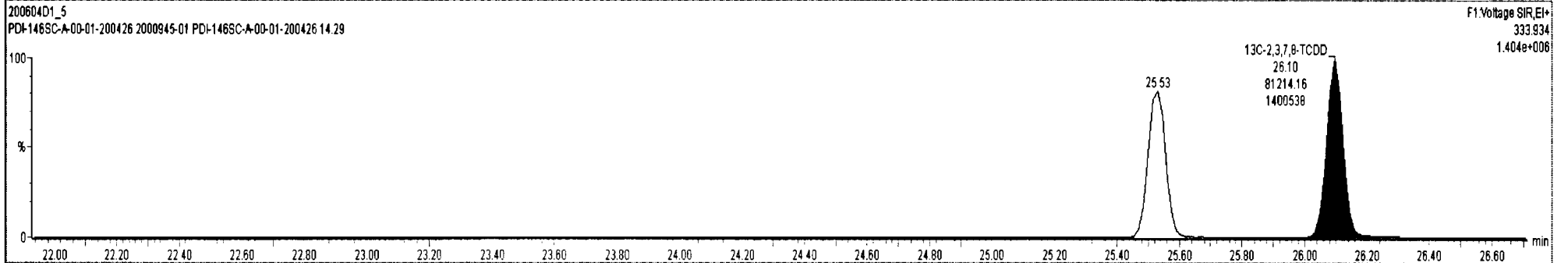
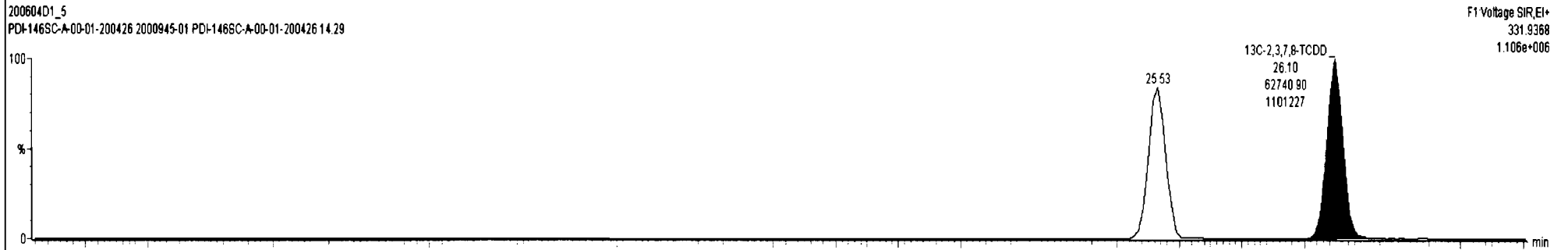
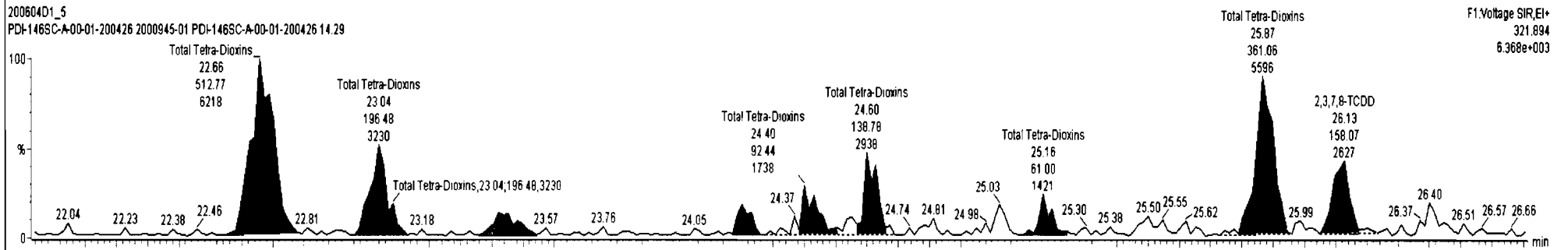
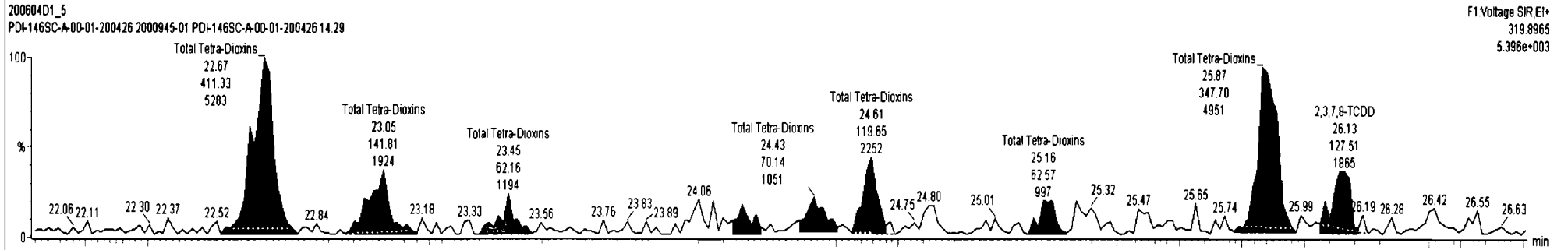
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2,3,7,8-TCDD



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





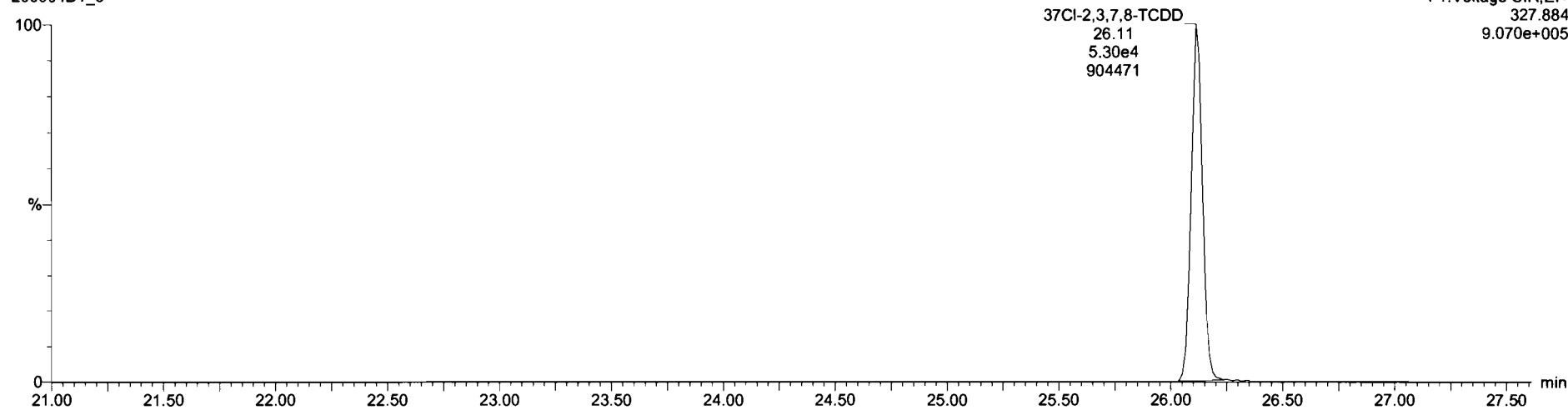
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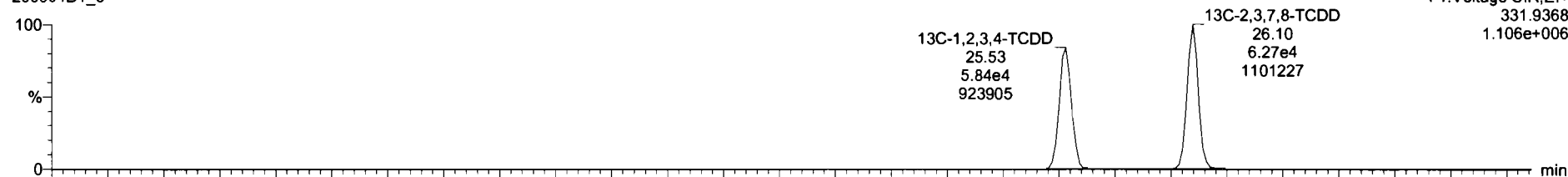
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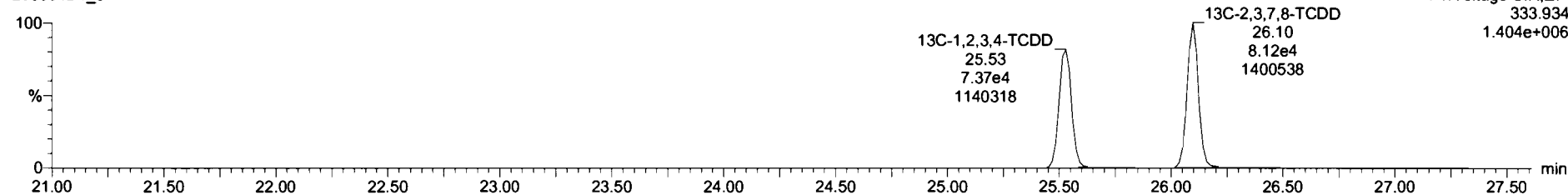


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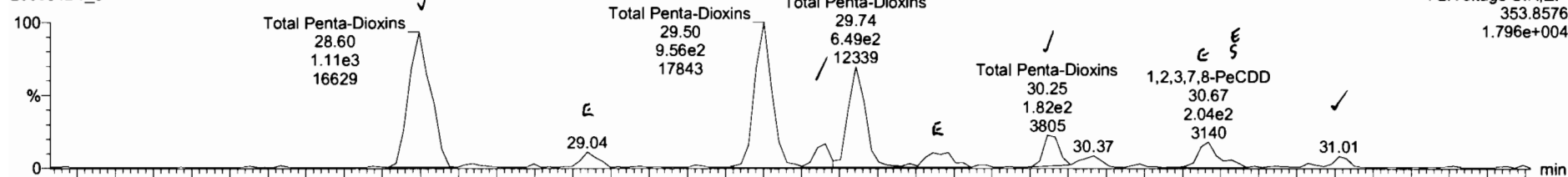
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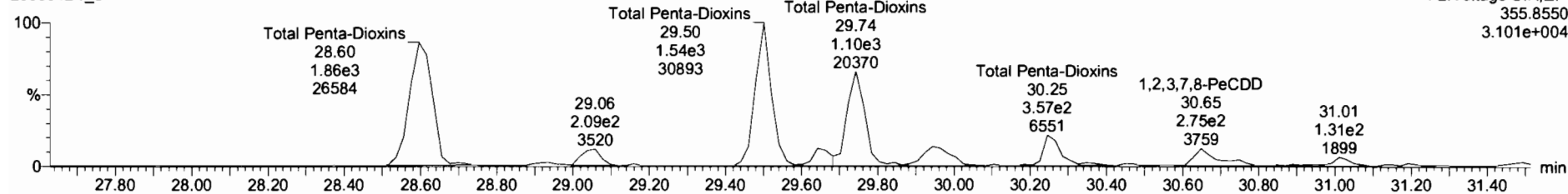
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1,2,3,7,8-PeCDD

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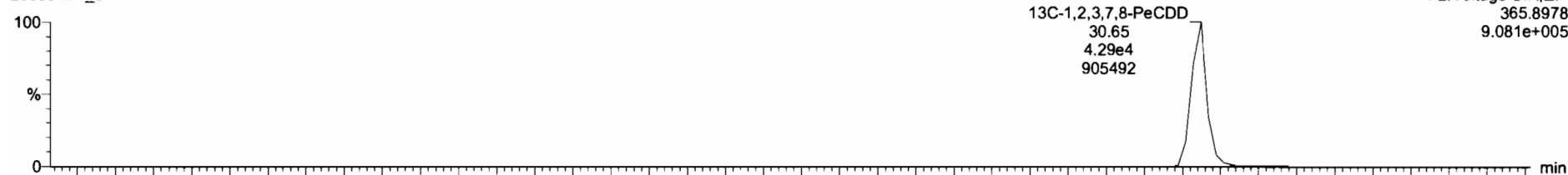


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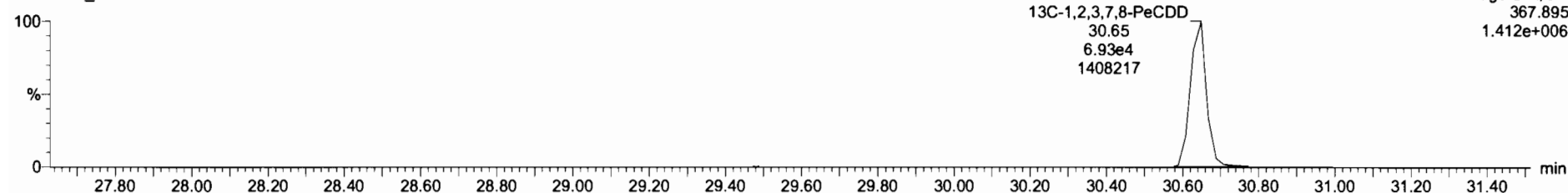


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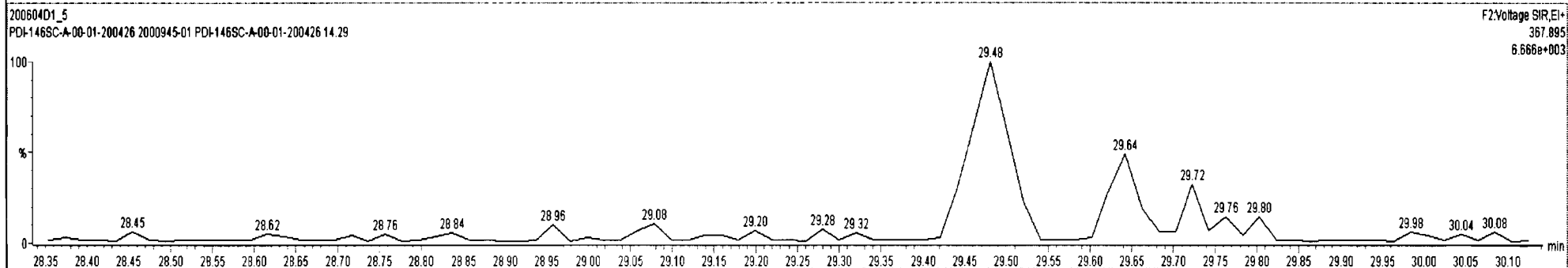
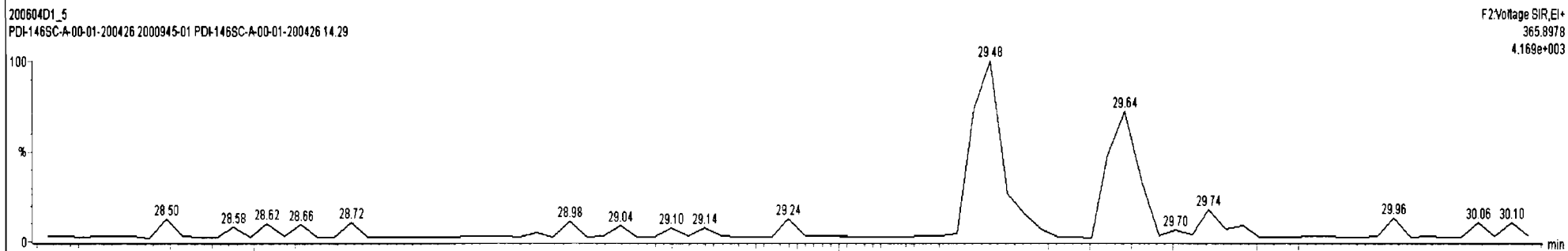
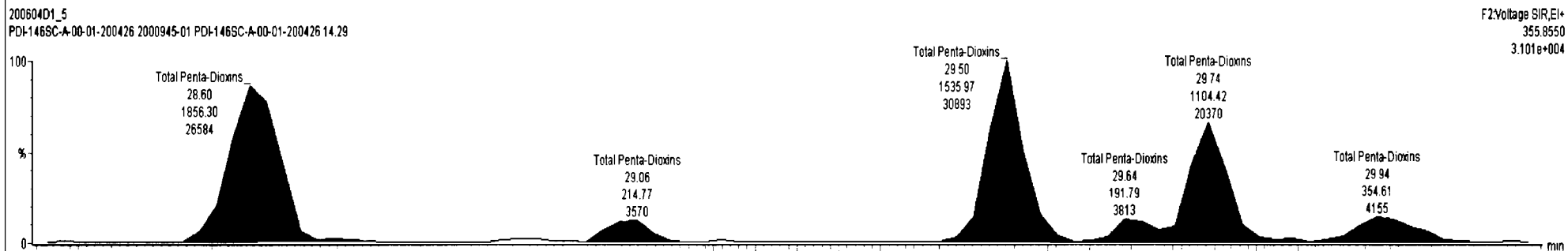
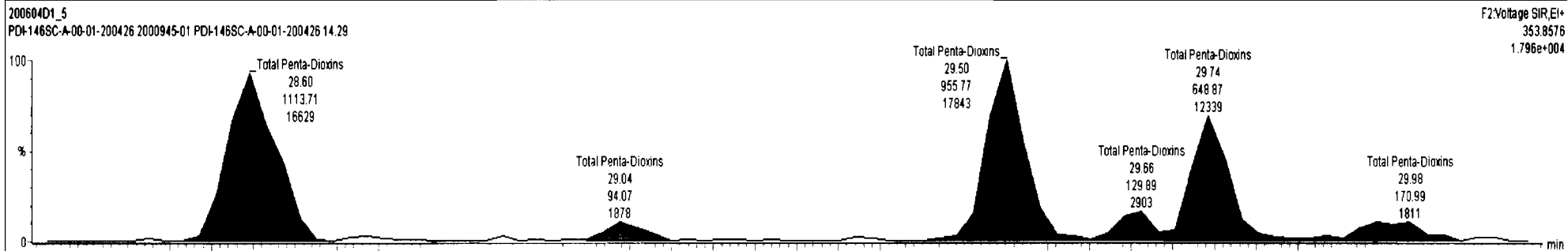
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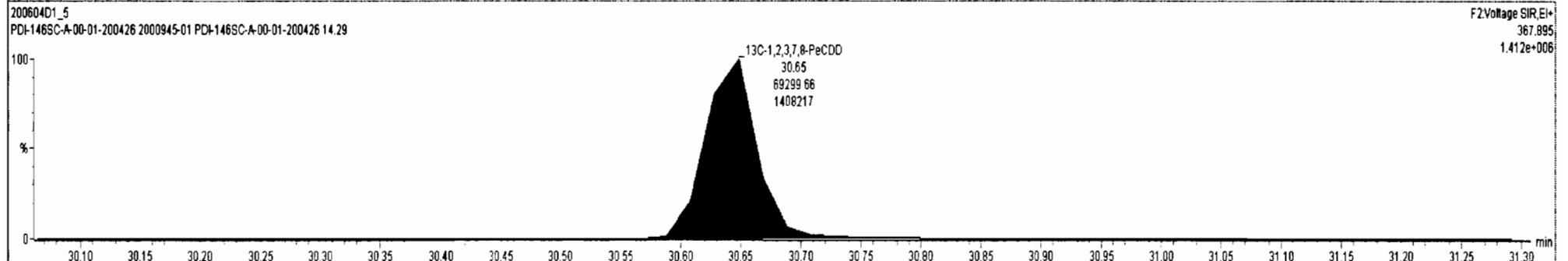
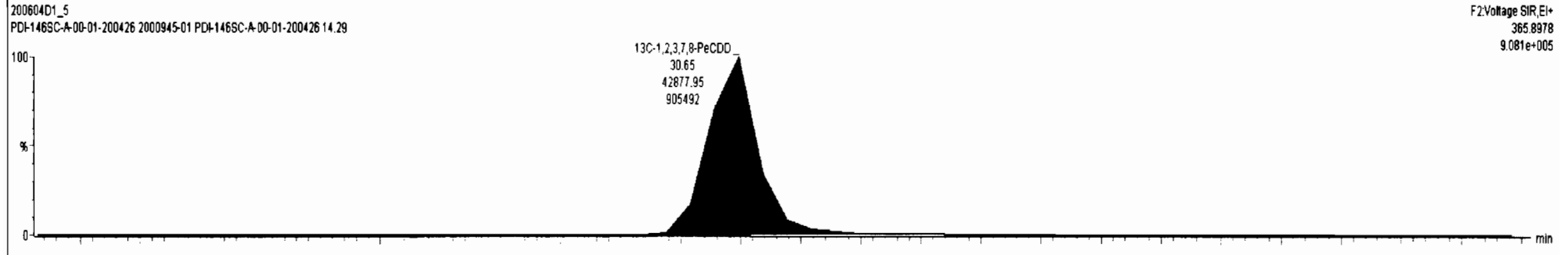
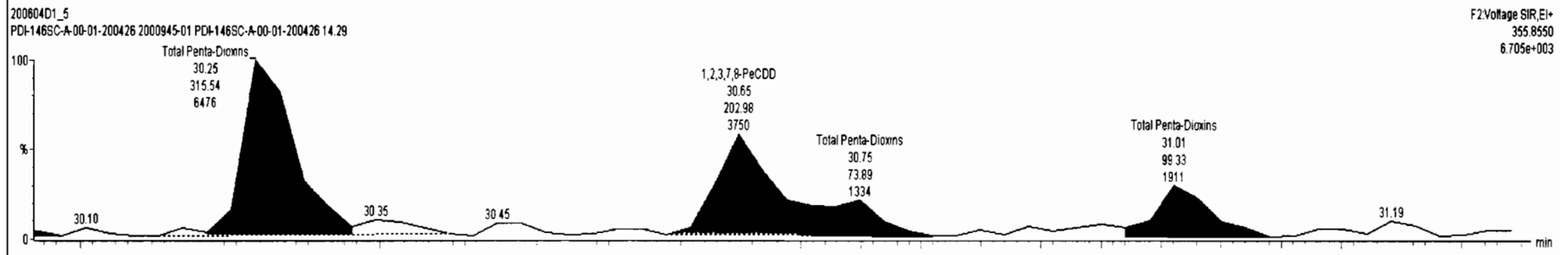
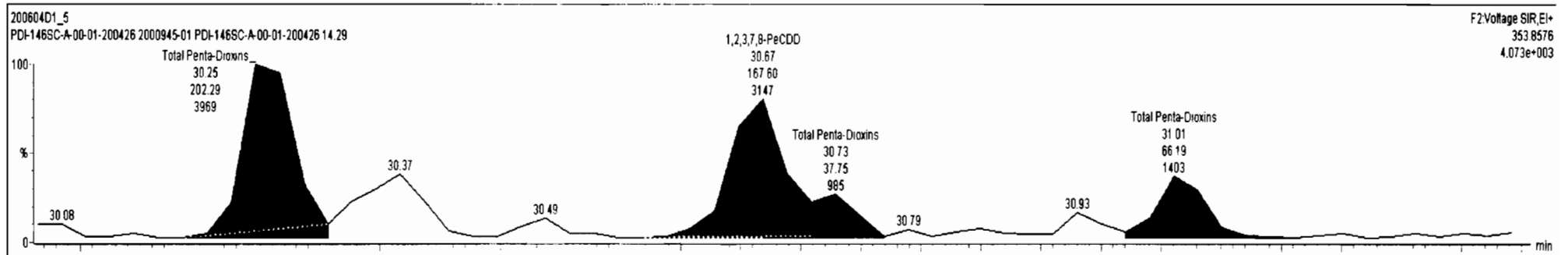
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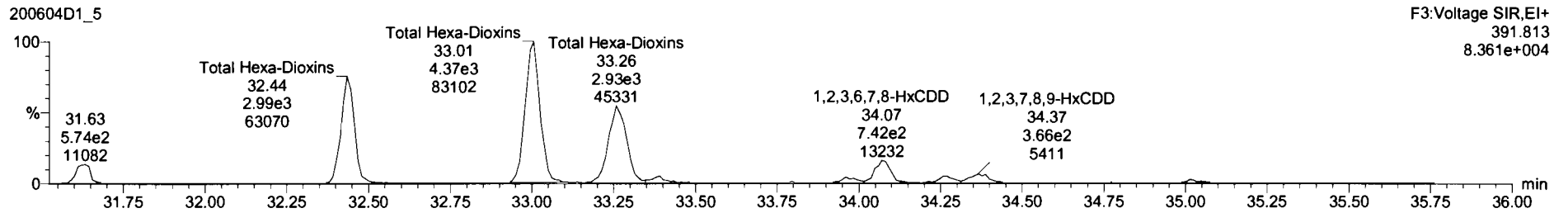
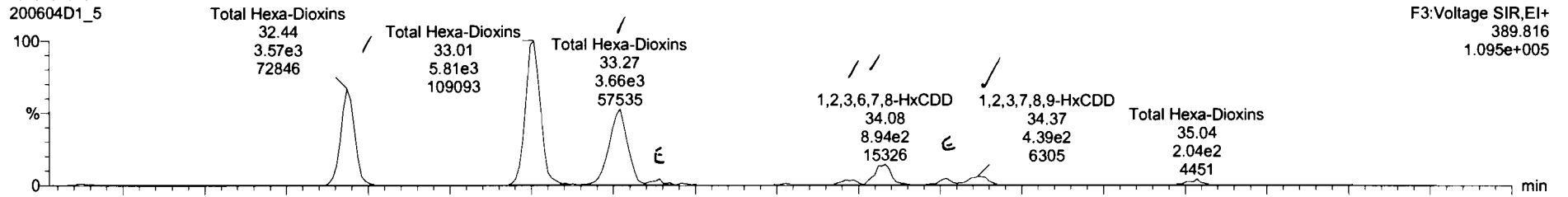


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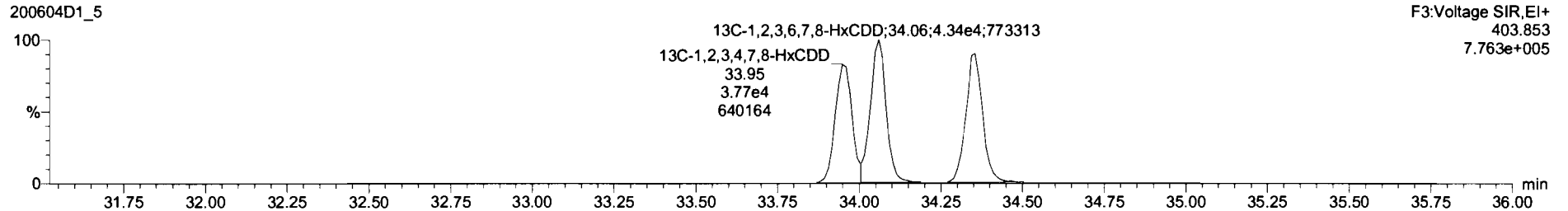
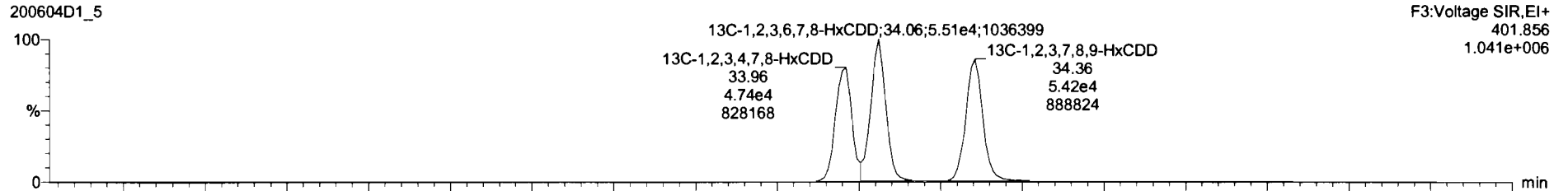
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1,2,3,4,7,8-HxCDD

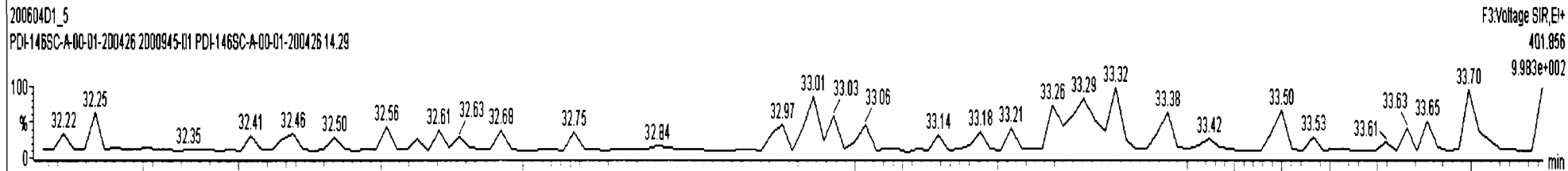
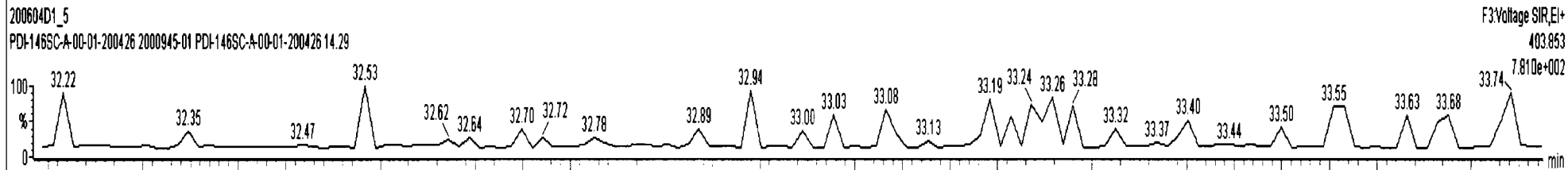
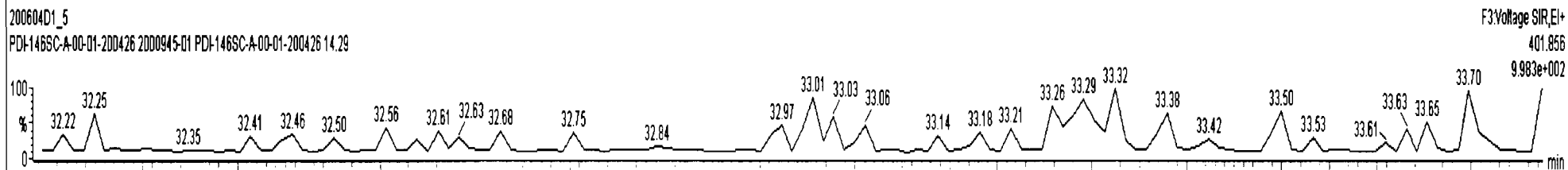
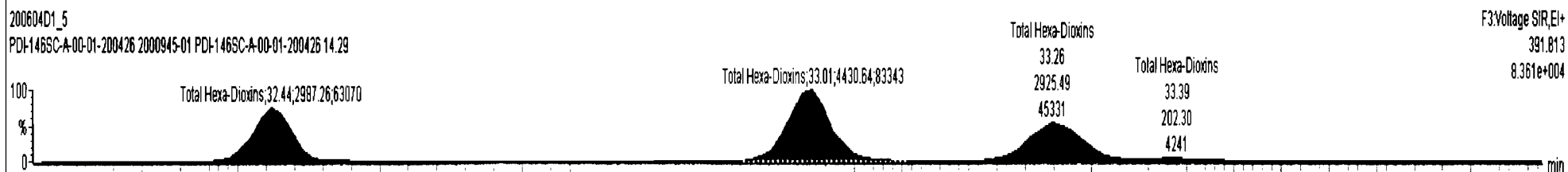
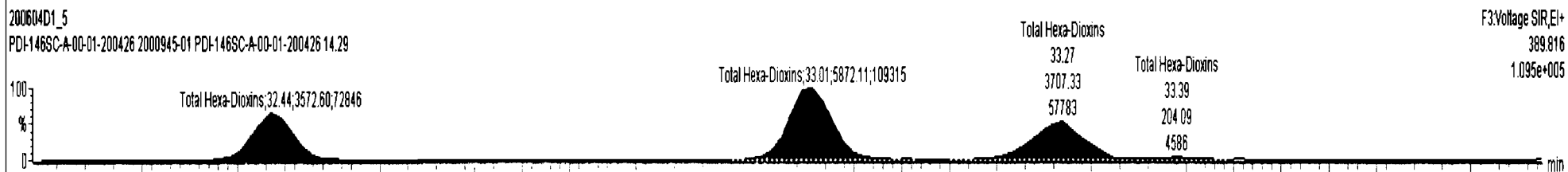


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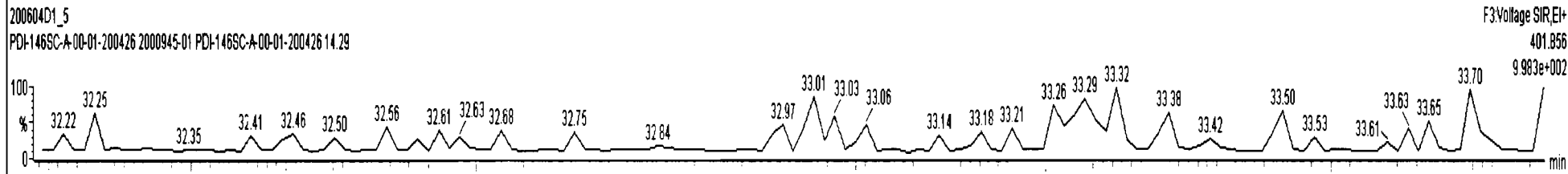
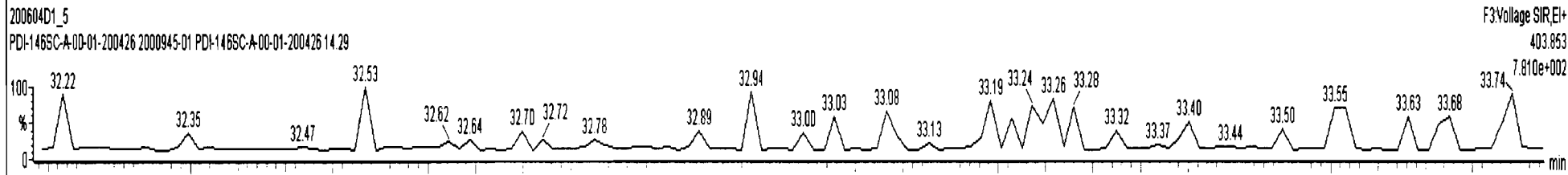
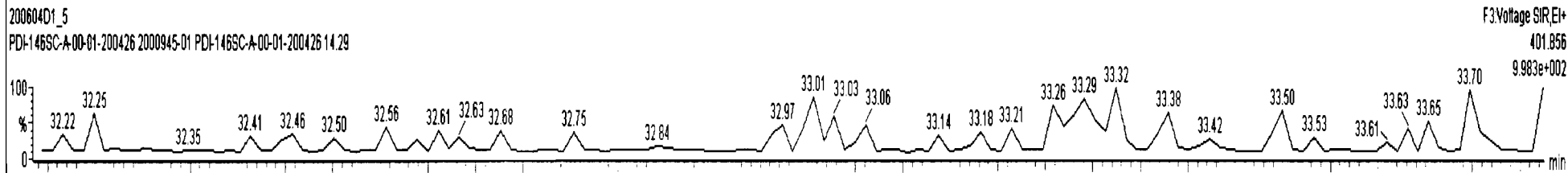
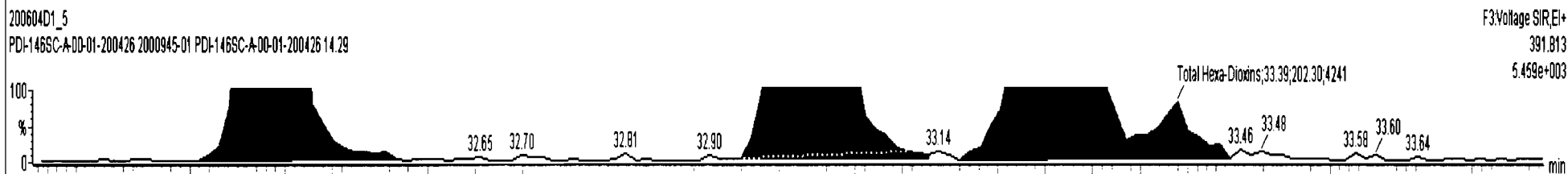
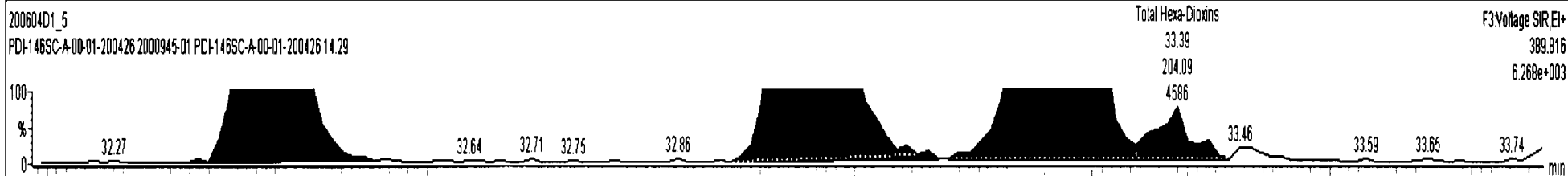
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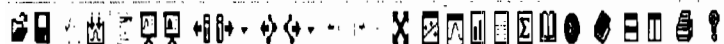




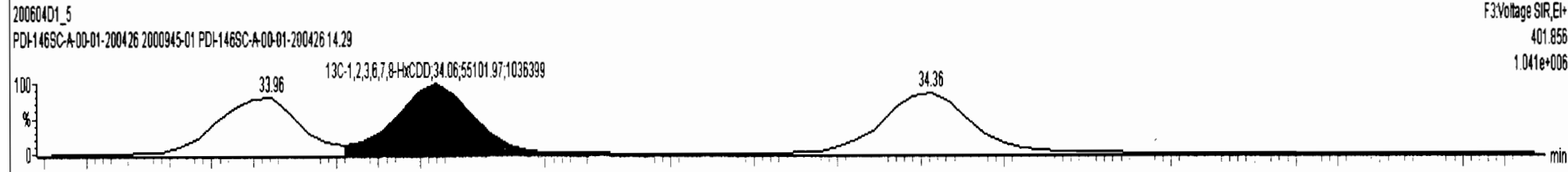
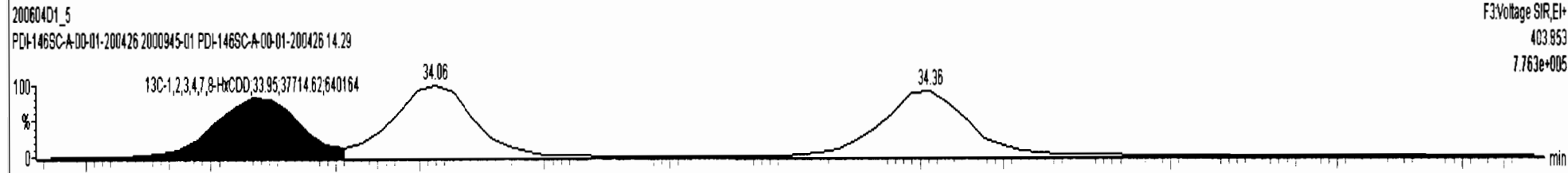
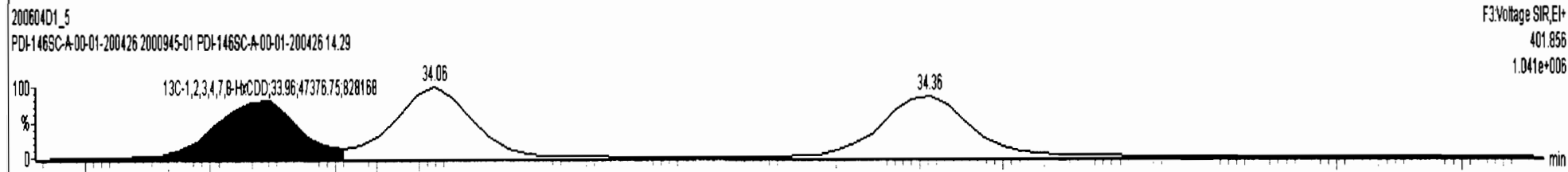
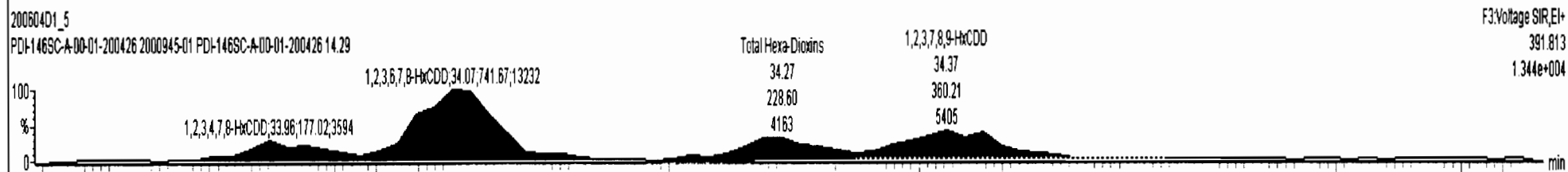
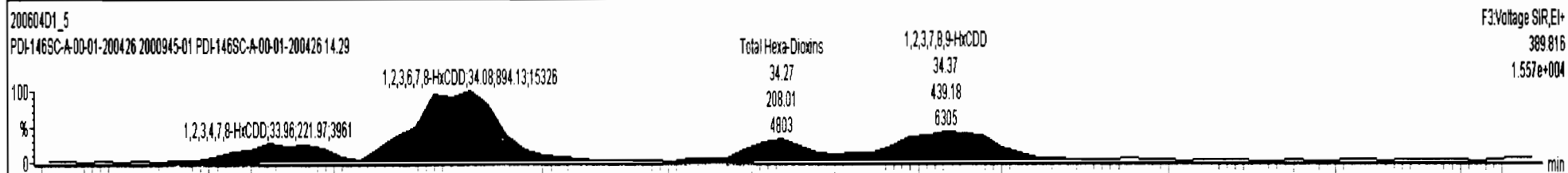


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200604D1\_5 - 2000945-01 PDI-146SC-A-00-01-200426 14.29 PDI-146SC-A-00-01-200426 14.29



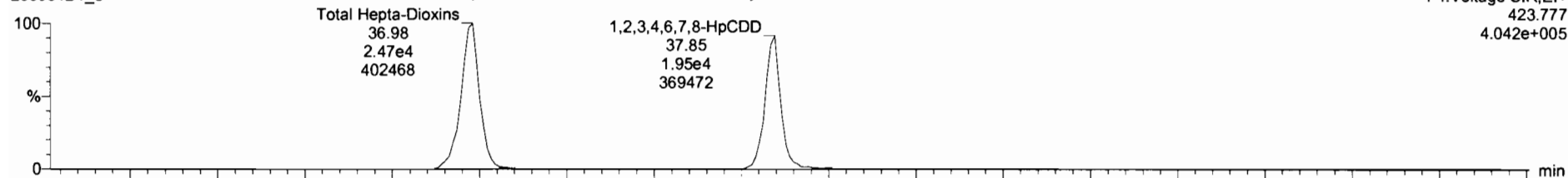
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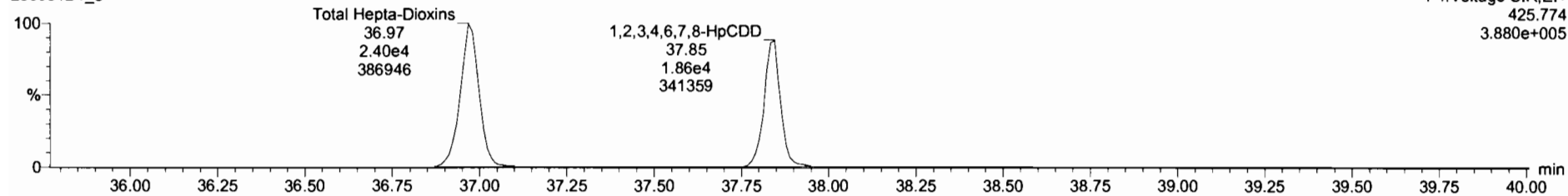
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1,2,3,4,6,7,8-HpCDD

200604D1\_5

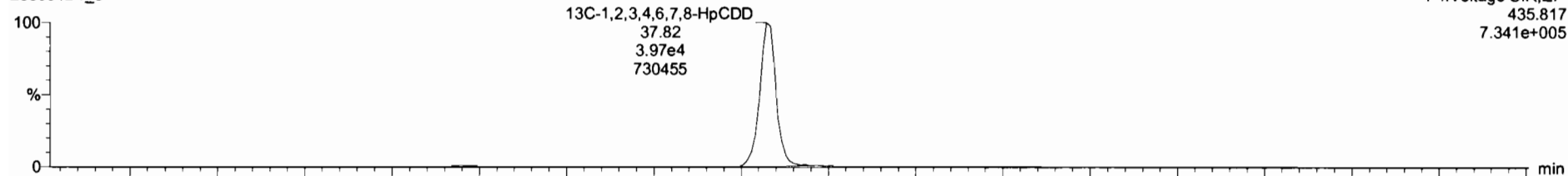


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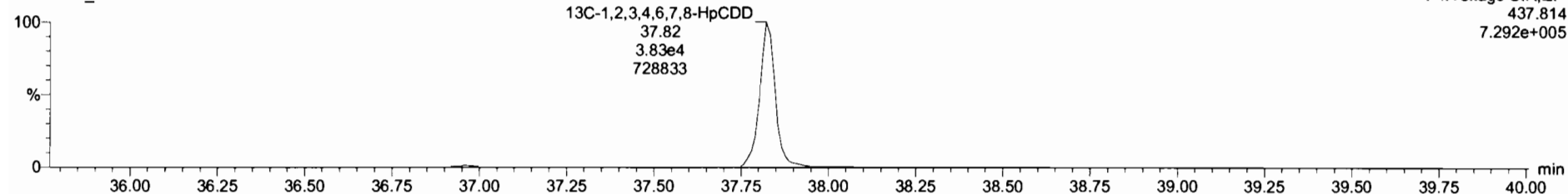


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200604D1\_5



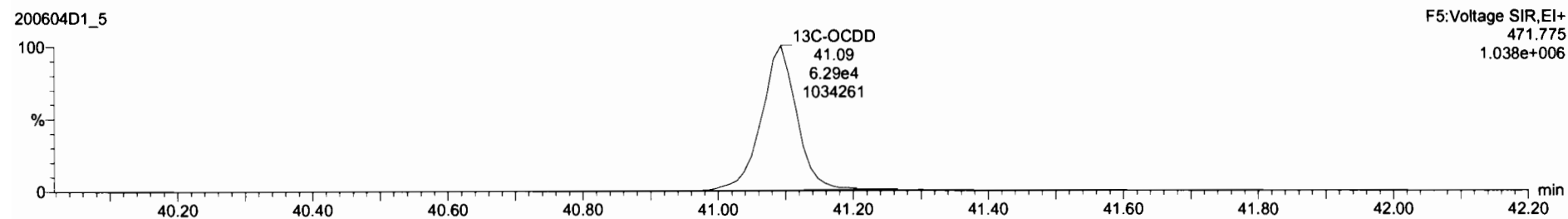
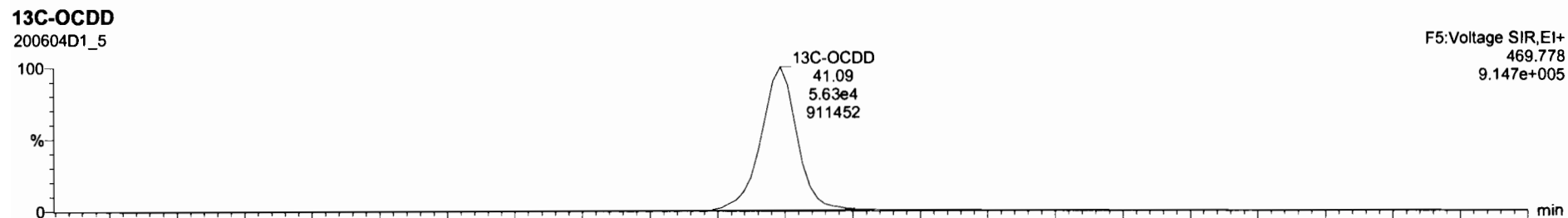
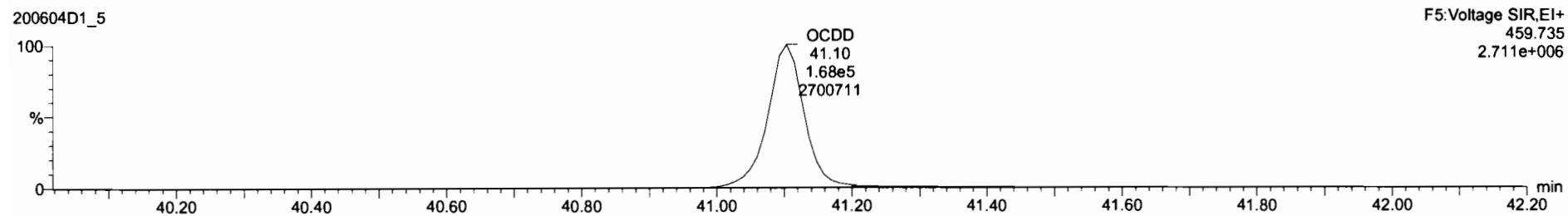
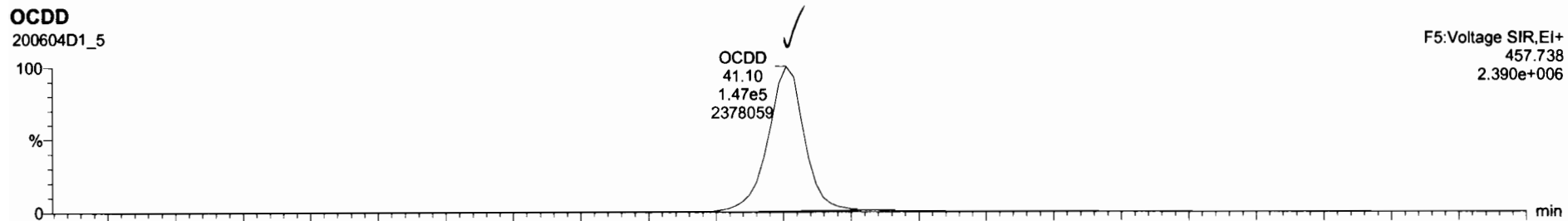
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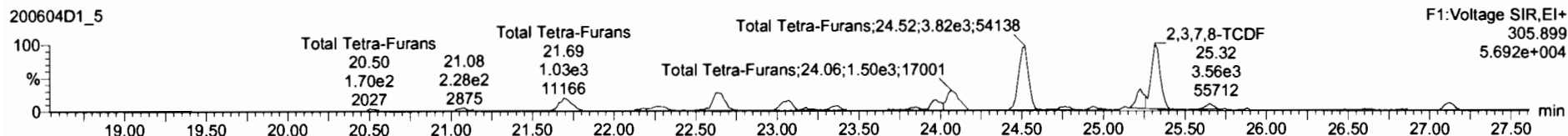
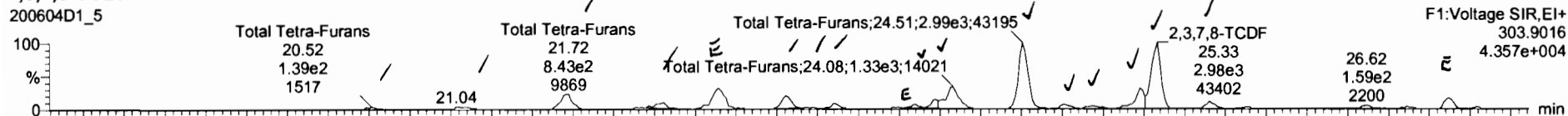


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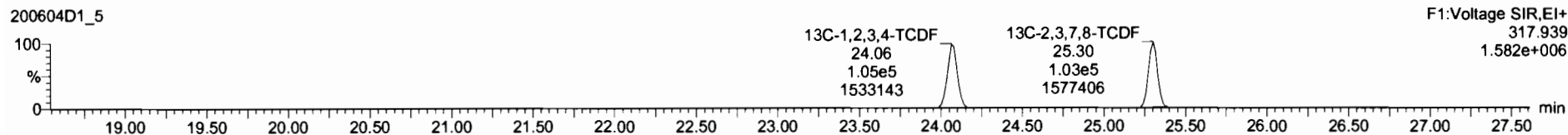
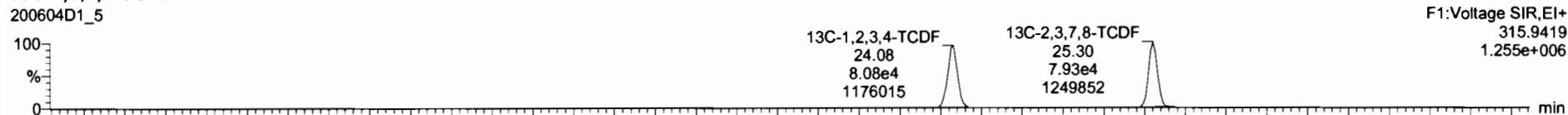
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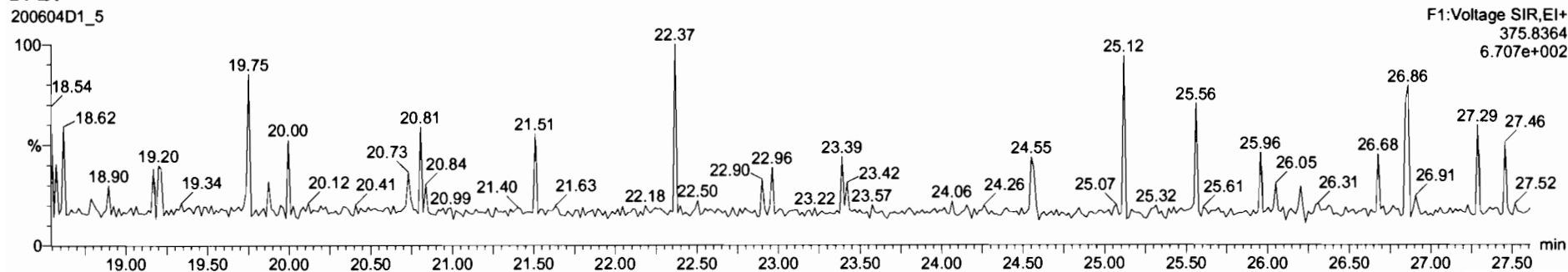
**2,3,7,8-TCDF**



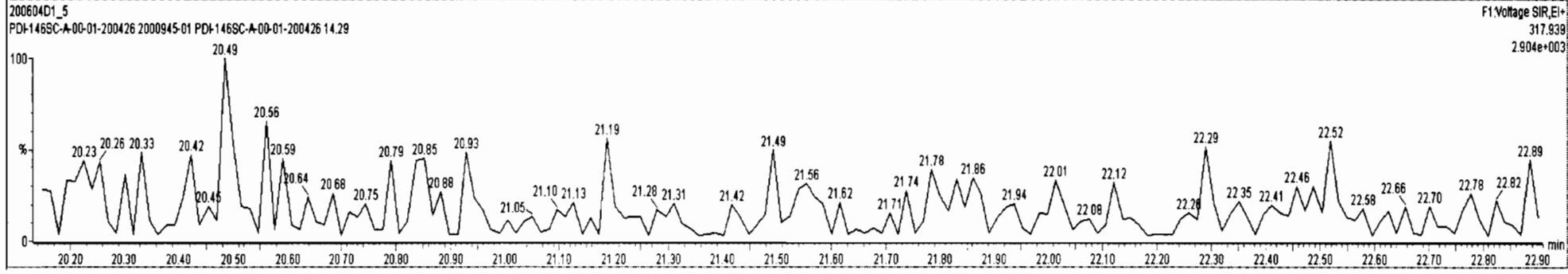
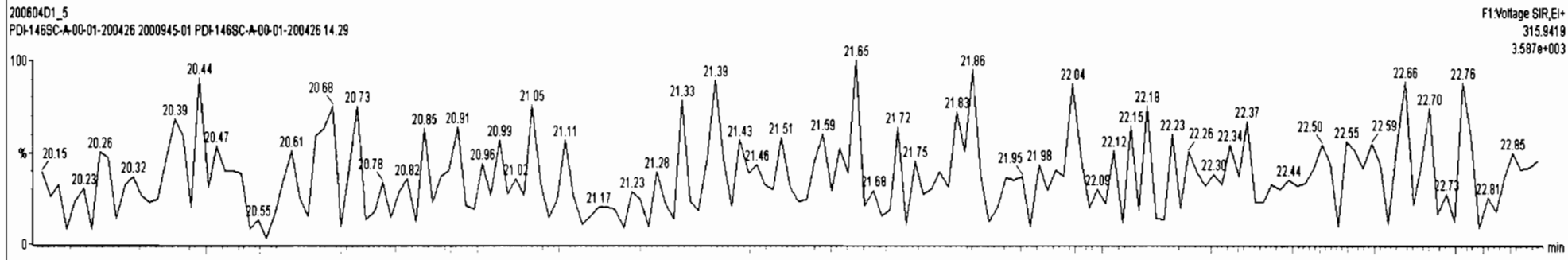
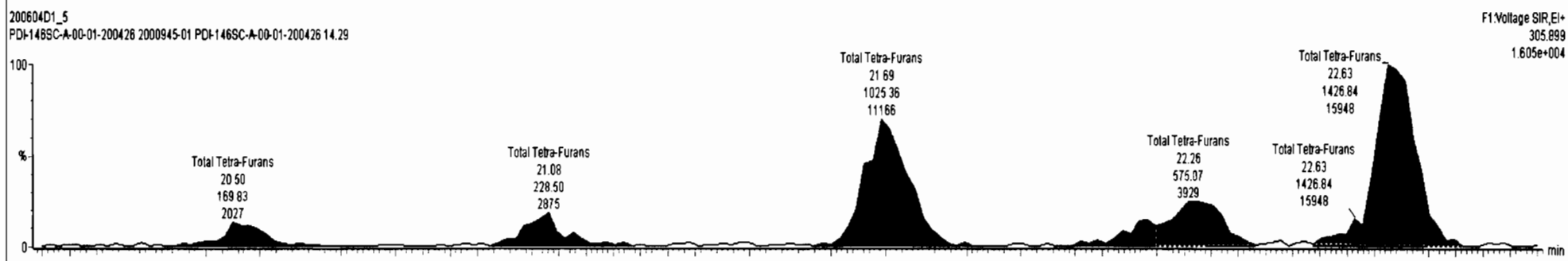
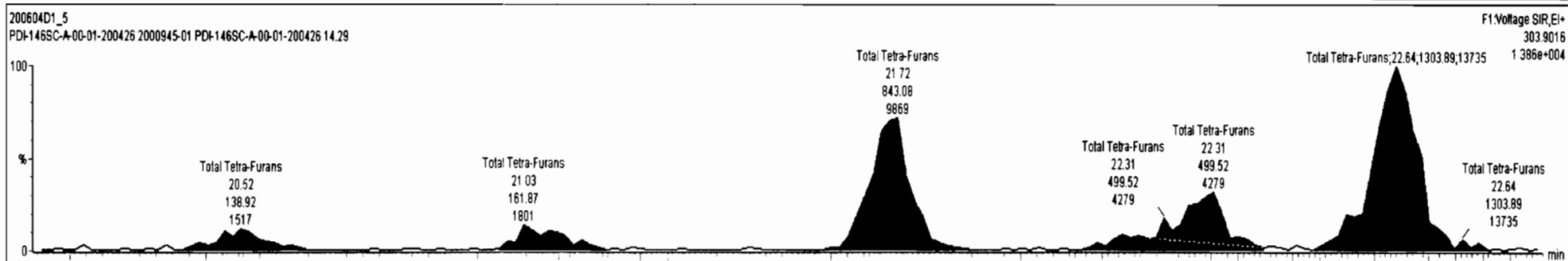
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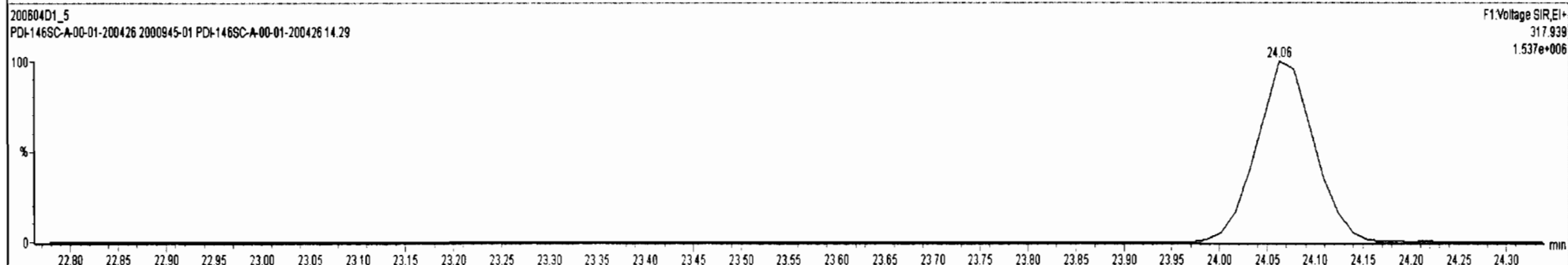
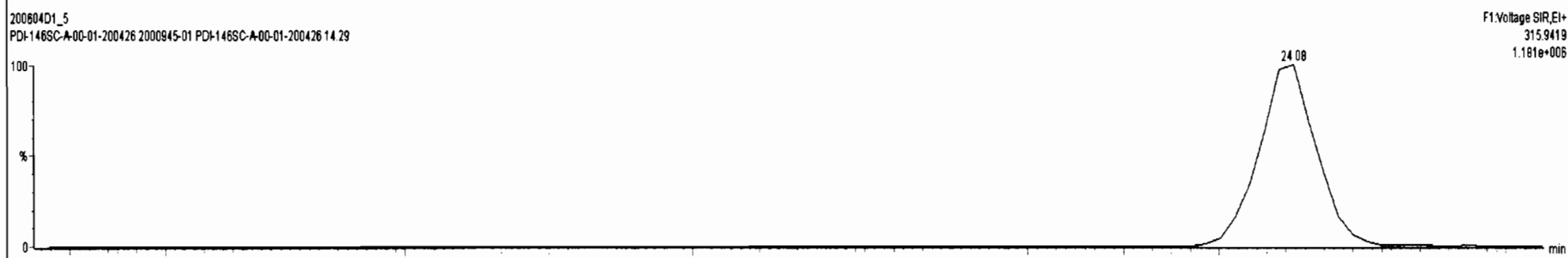
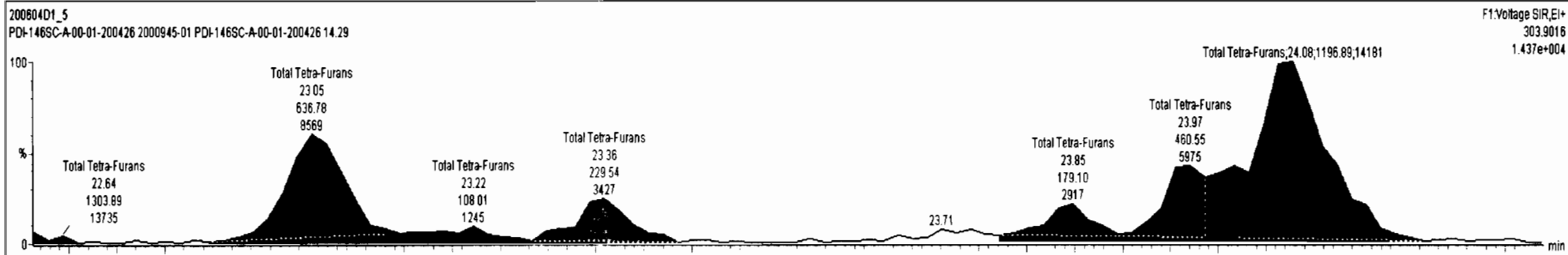


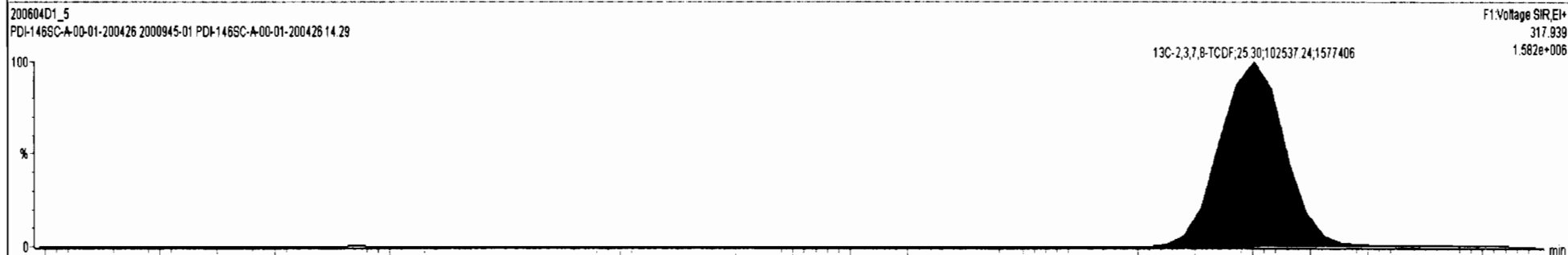
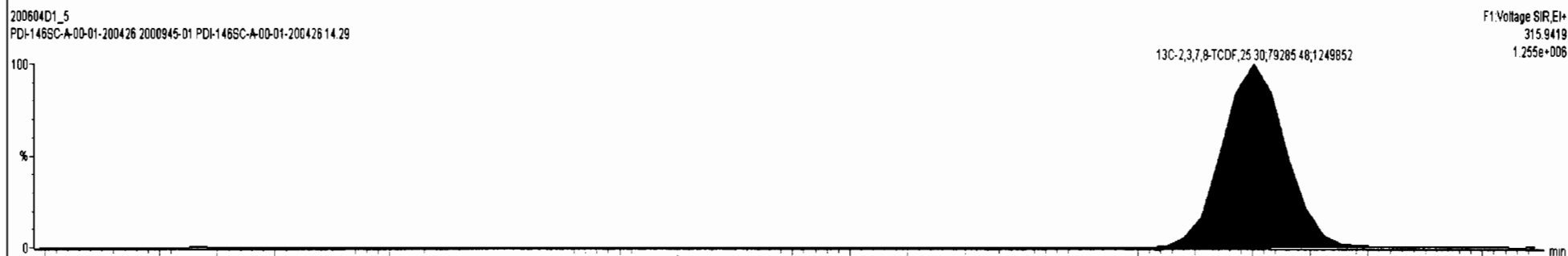
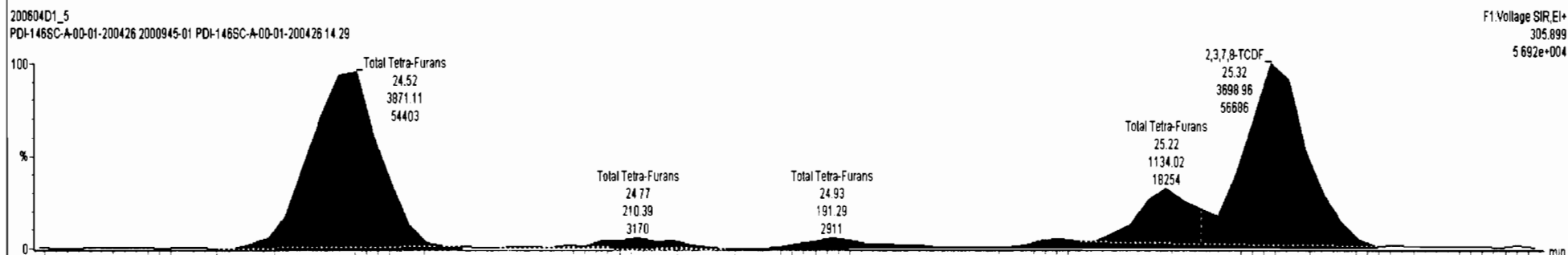
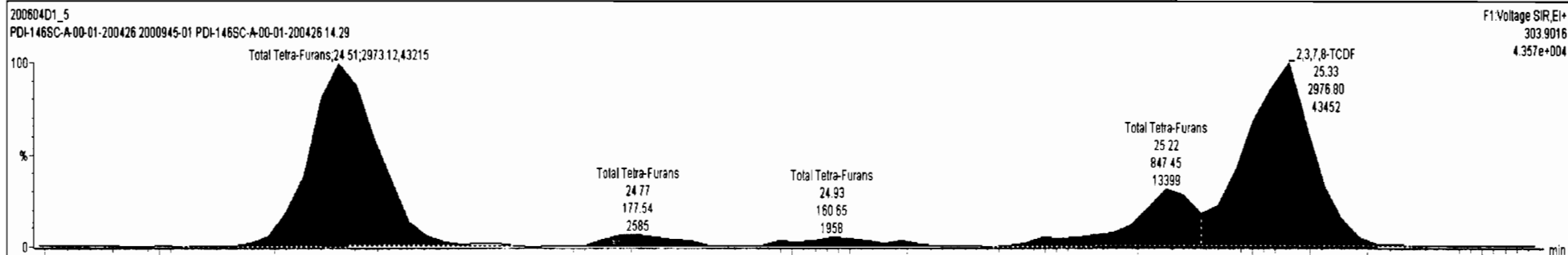
**DPE1**



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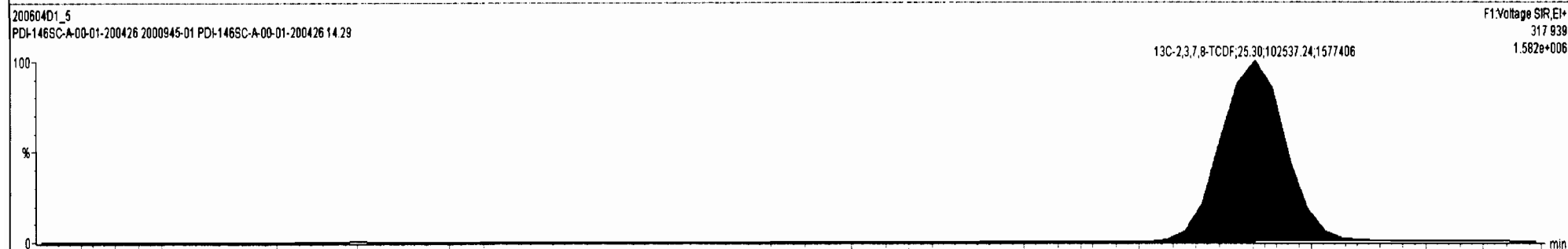
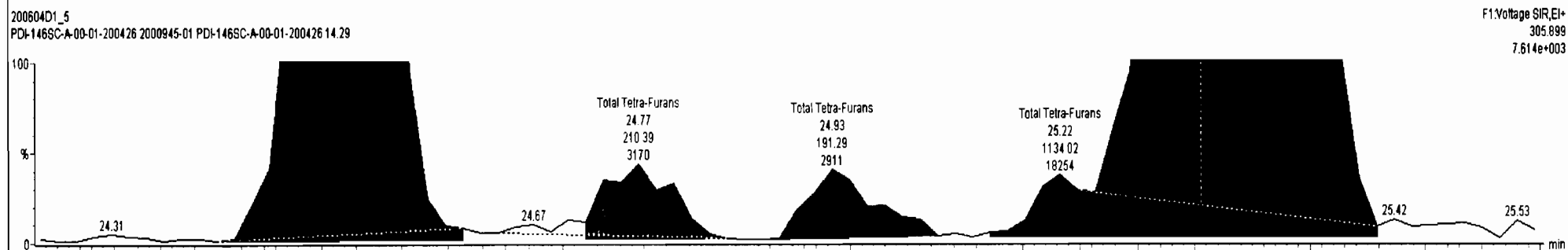
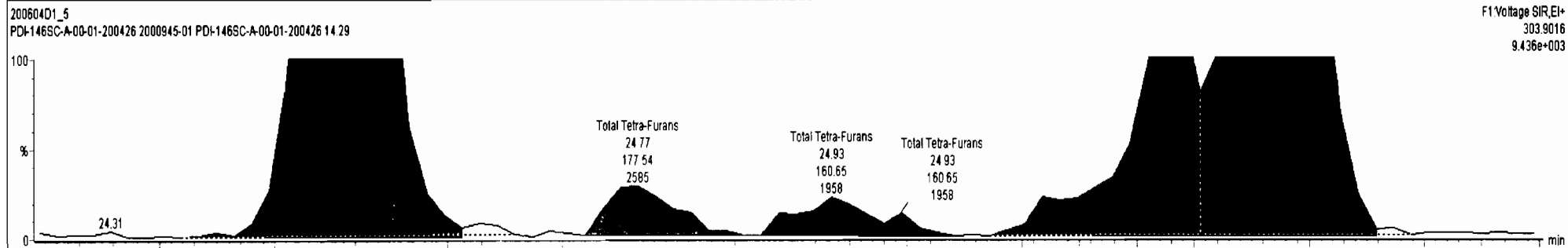




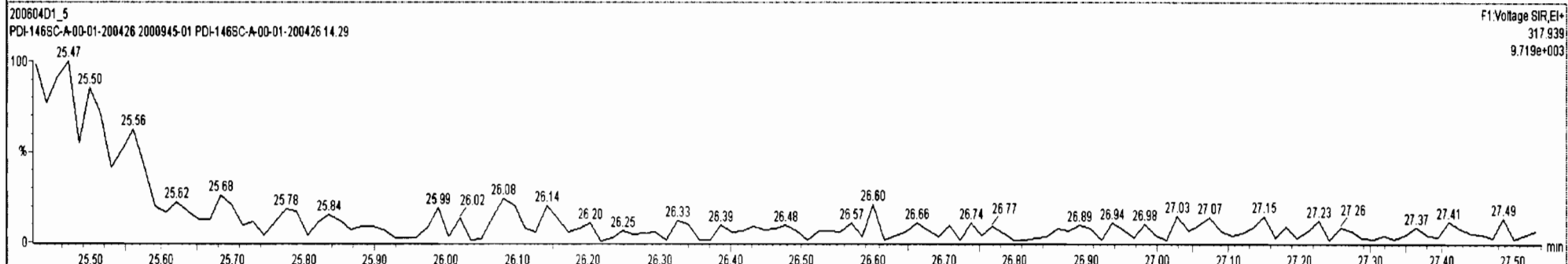
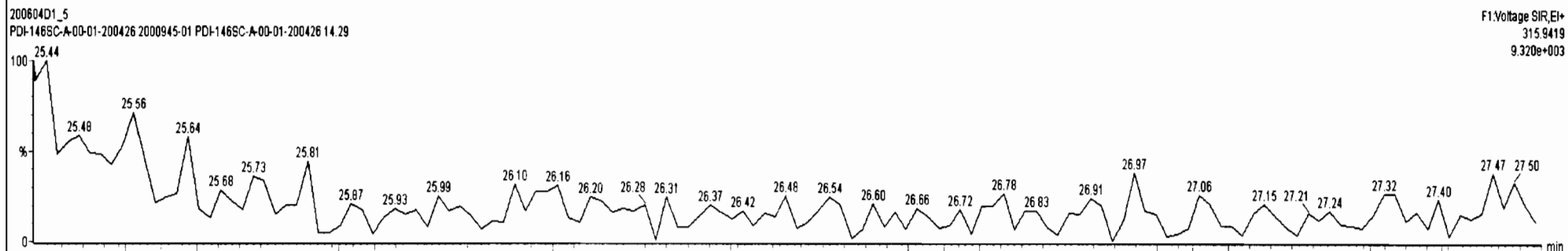
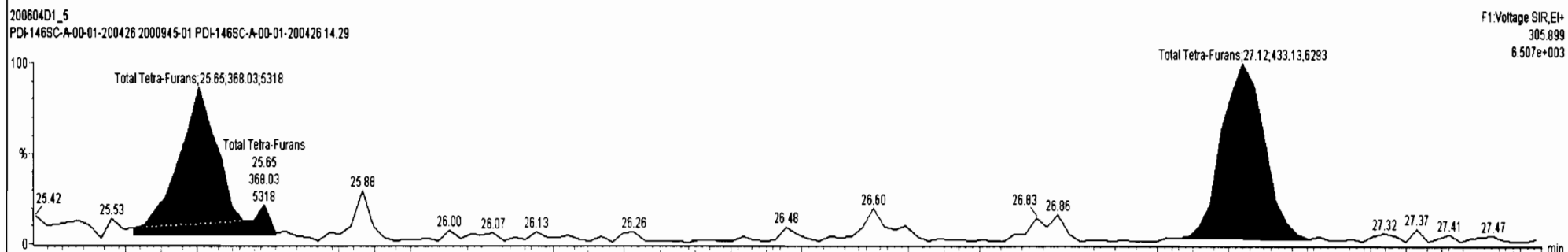
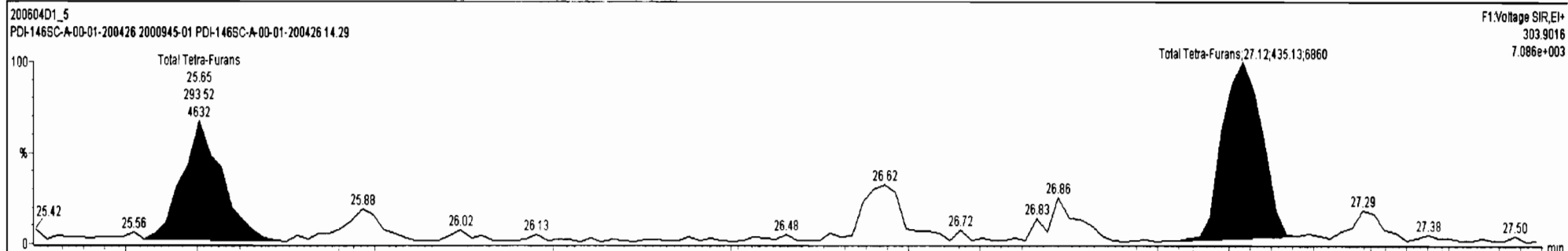




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200604D1\_5: 2000945: PDI-146SC-A-00-01: 200426: 14: 29: 27.12: 435.13: 6860



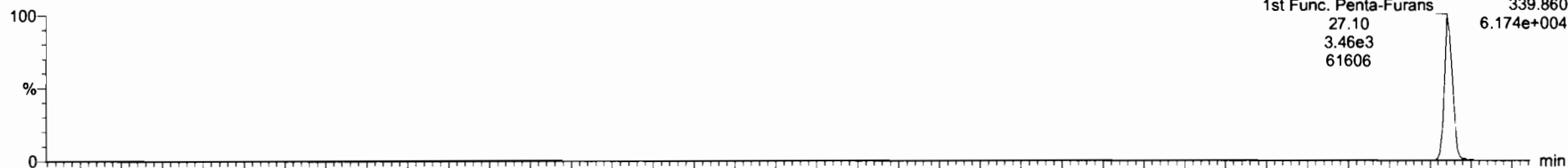
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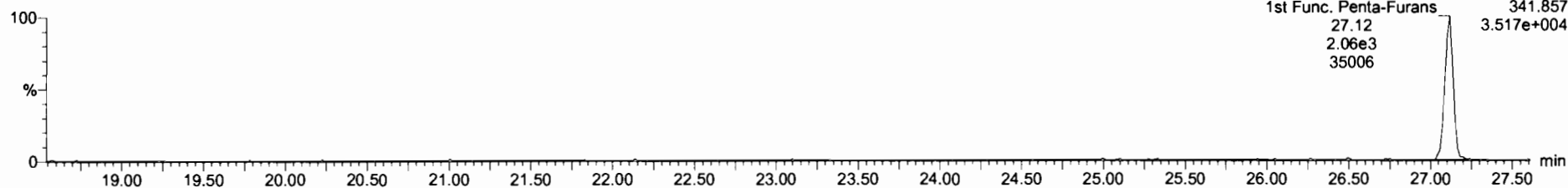
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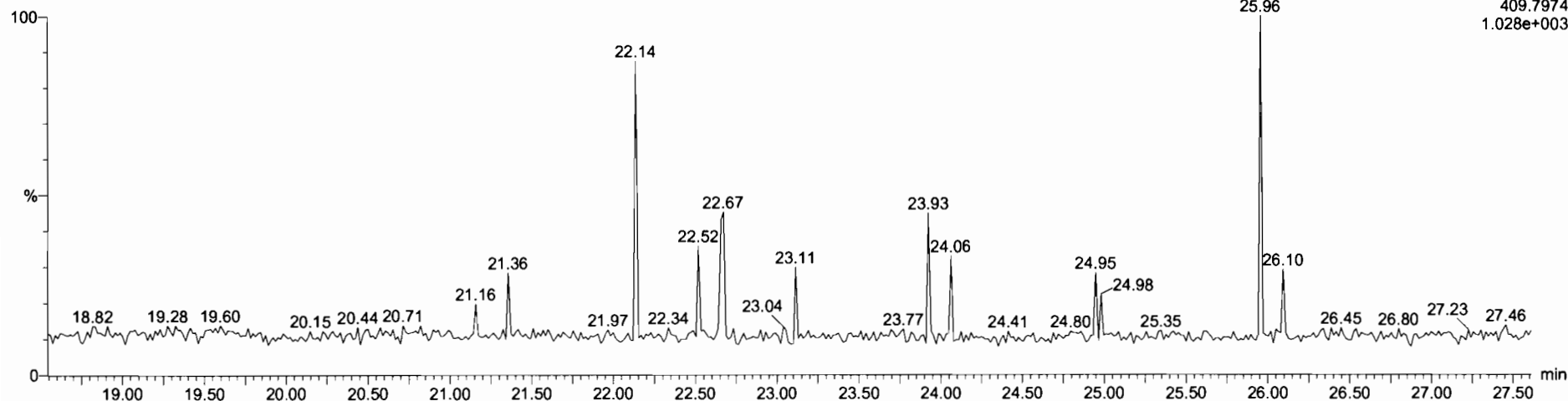


200604D1\_5



DPE6

200604D1\_5

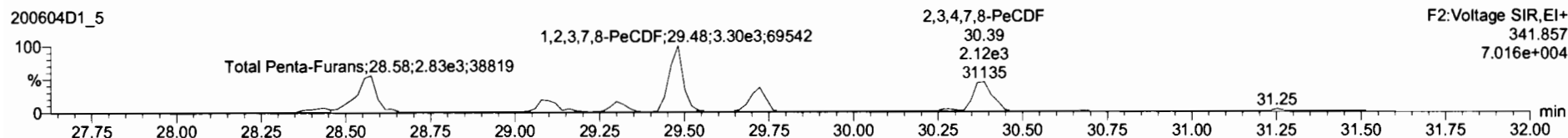
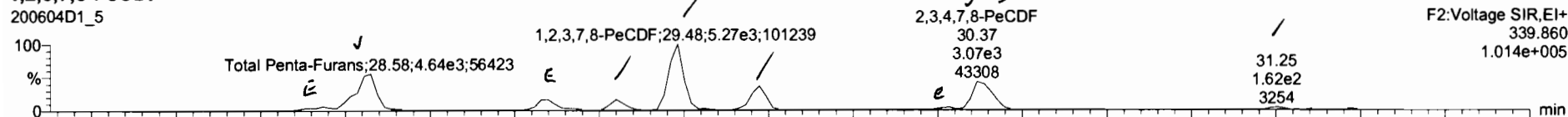


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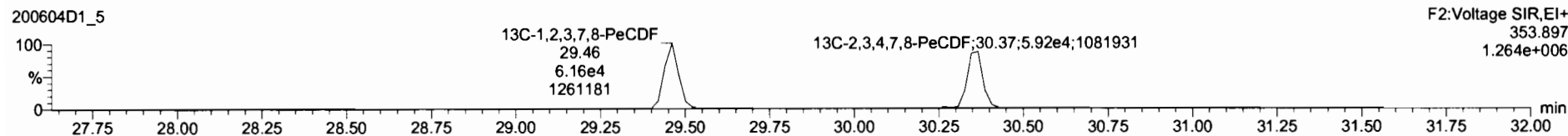
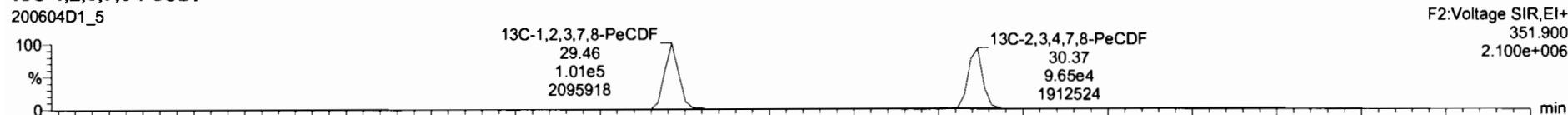
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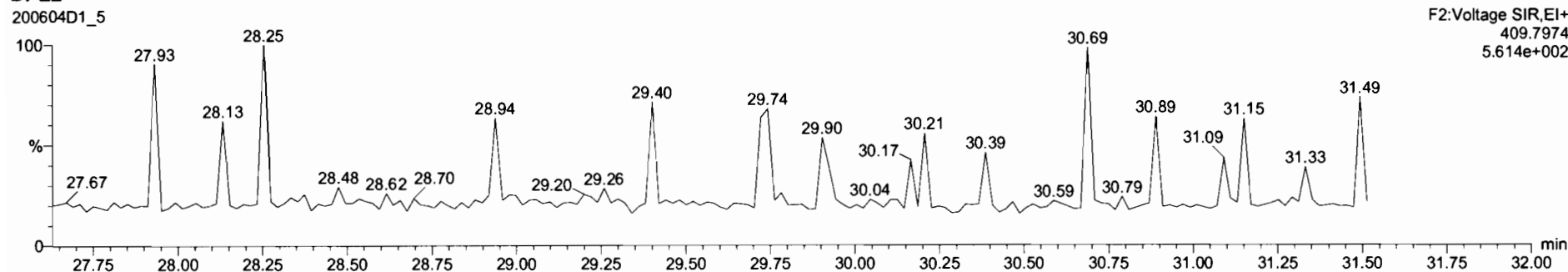
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**13C-1,2,3,7,8-PeCDF**

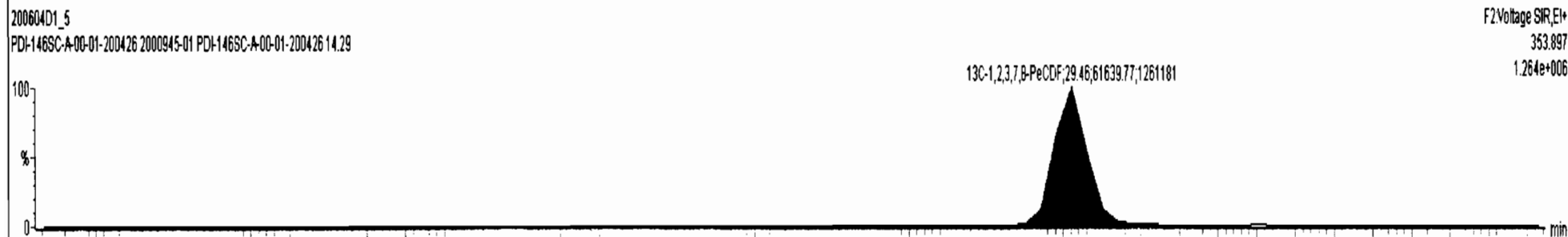
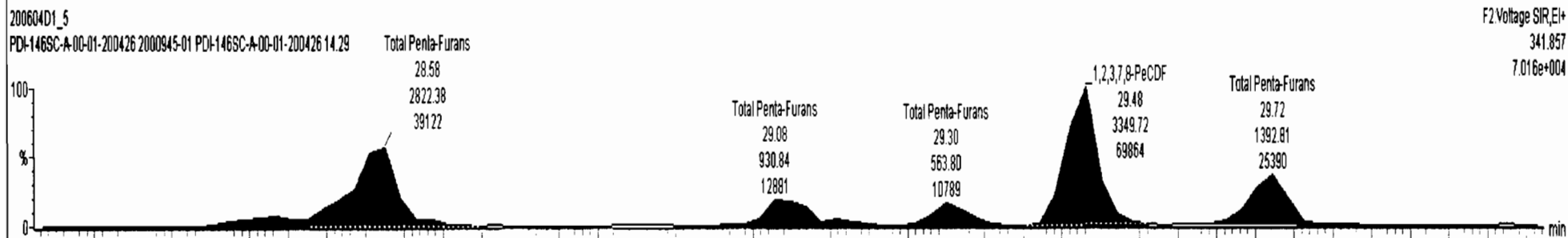
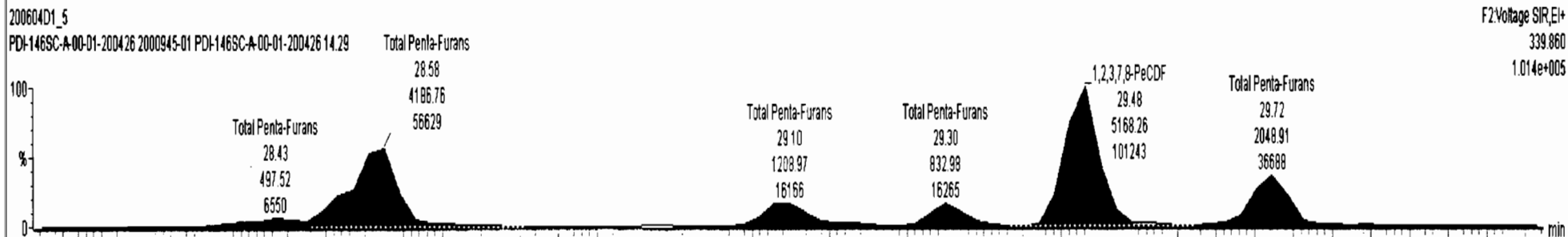


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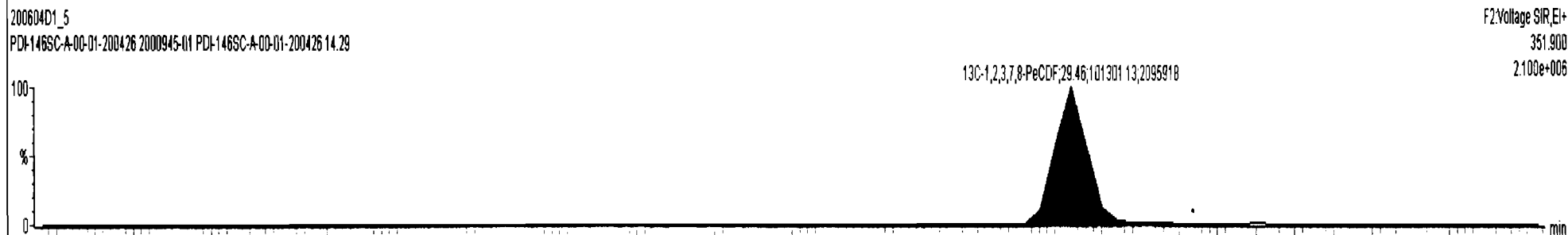
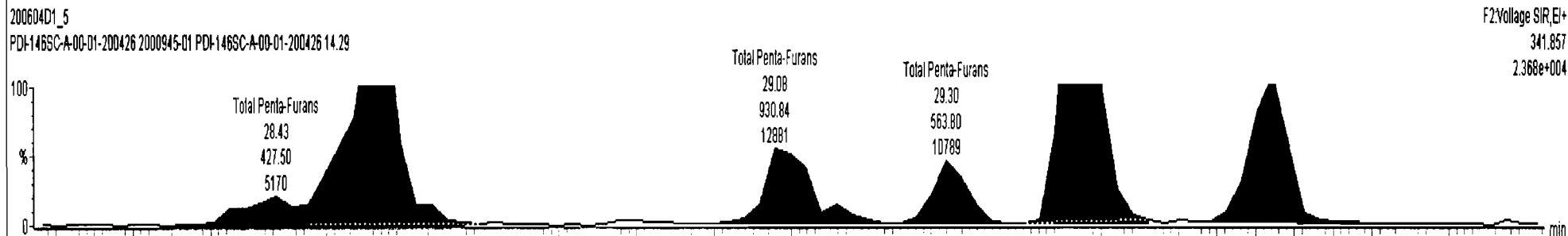
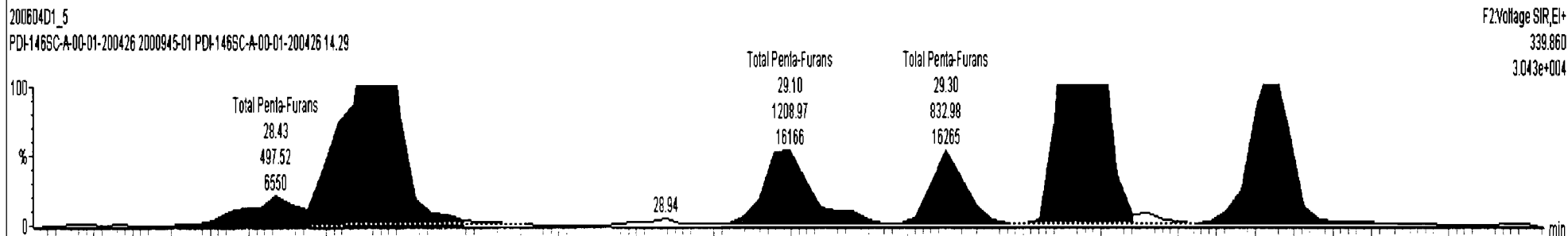




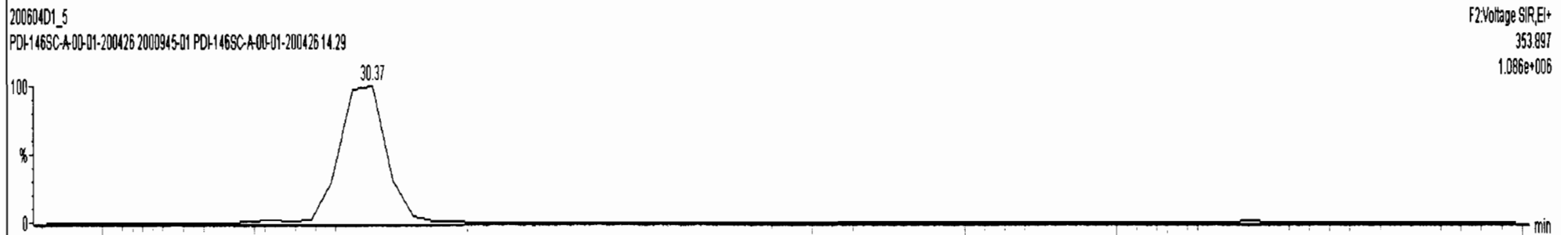
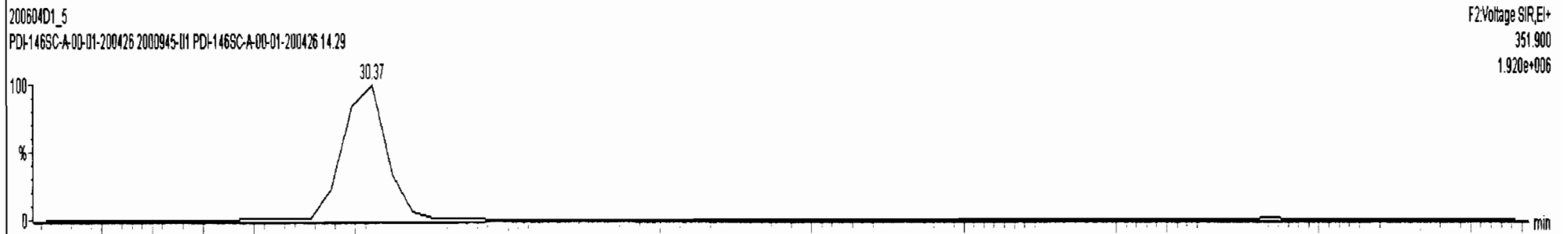
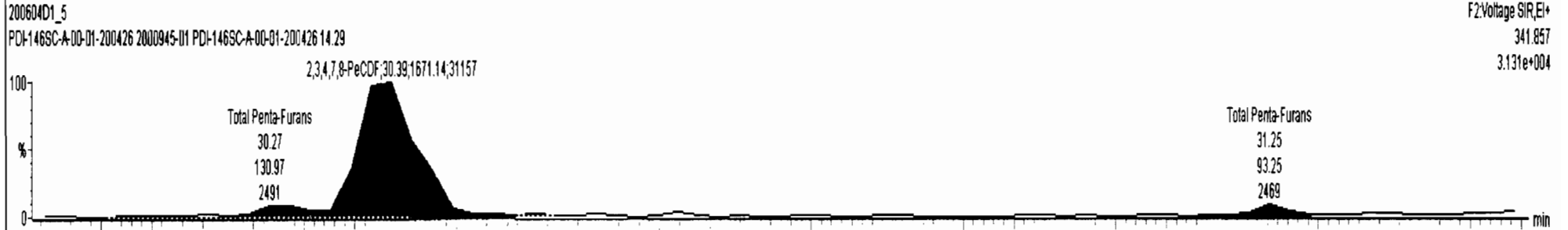
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20060401\_5 - 200945-01 PE-146SC-A-00-01-200426 14.29 PE-146SC-A-00-01-200426

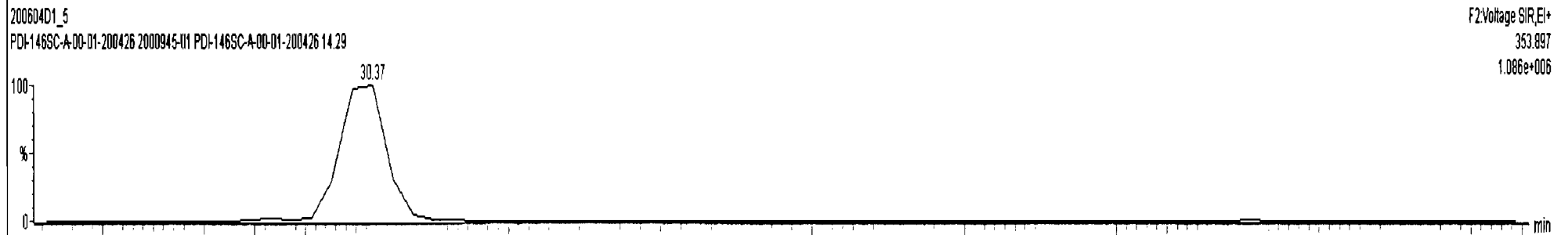
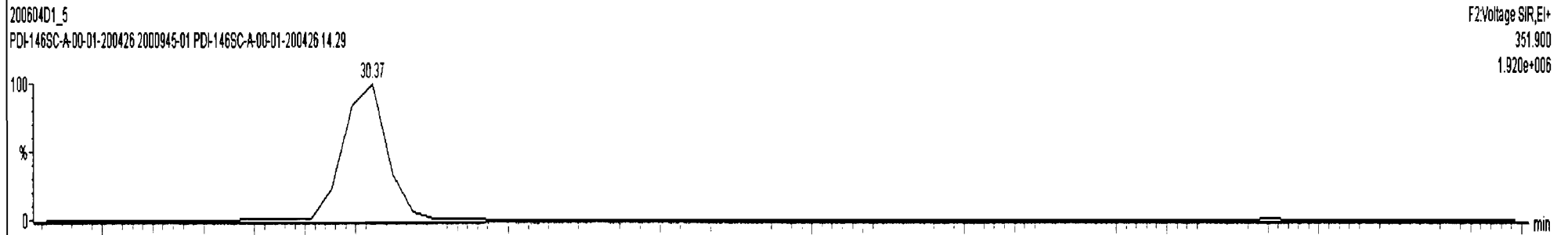
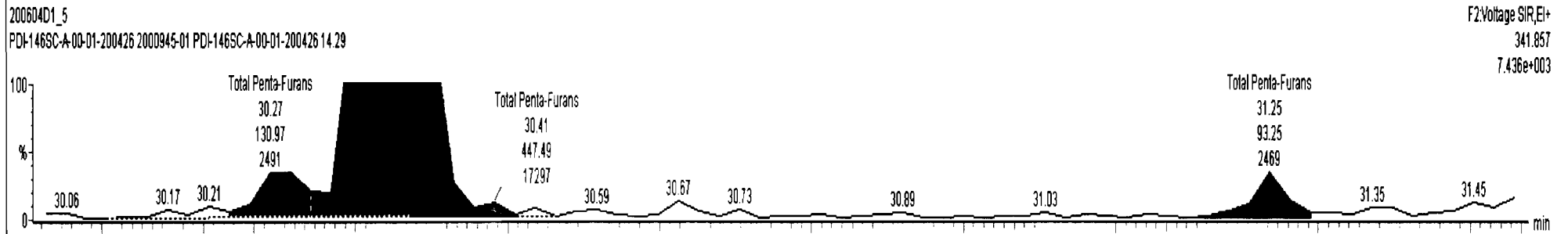
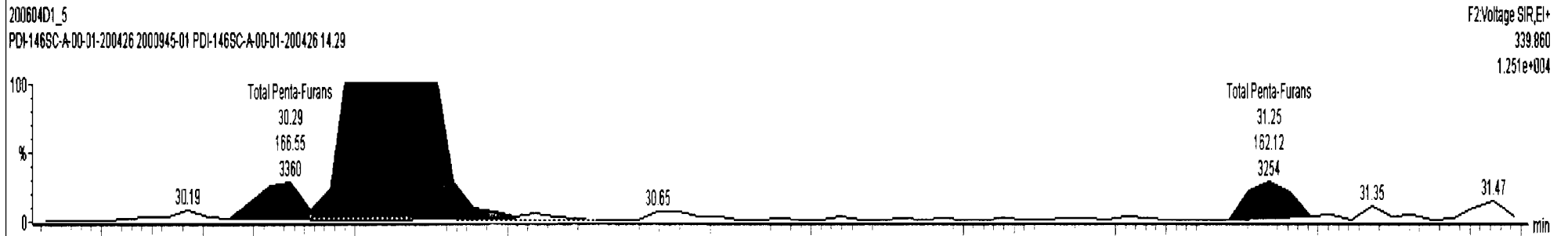


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200604D1\_5 - 2000945-01 PDI-146SC-A-00-01-200426 14.29 - PDI-146SC-A-00-01-200426



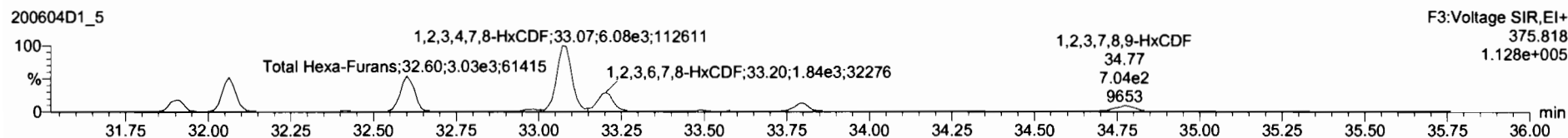
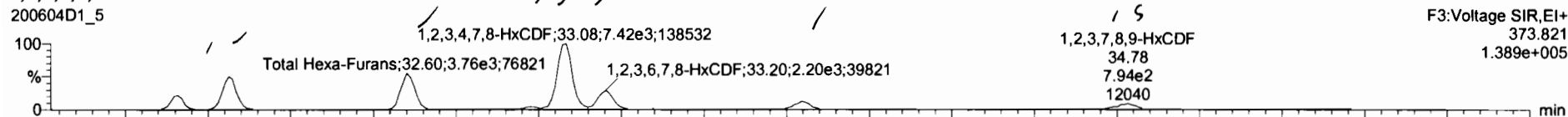


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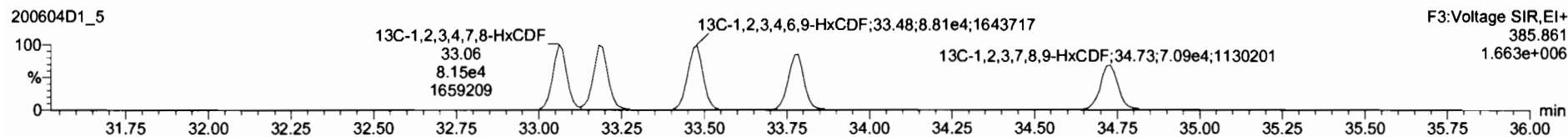
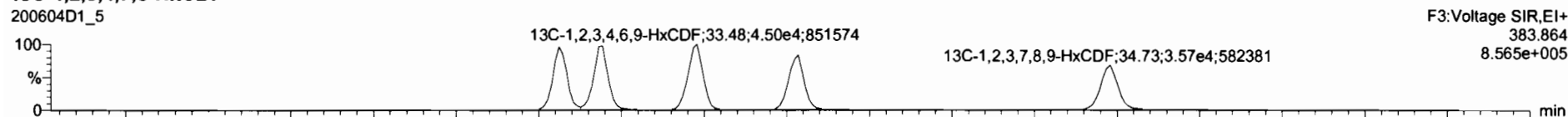
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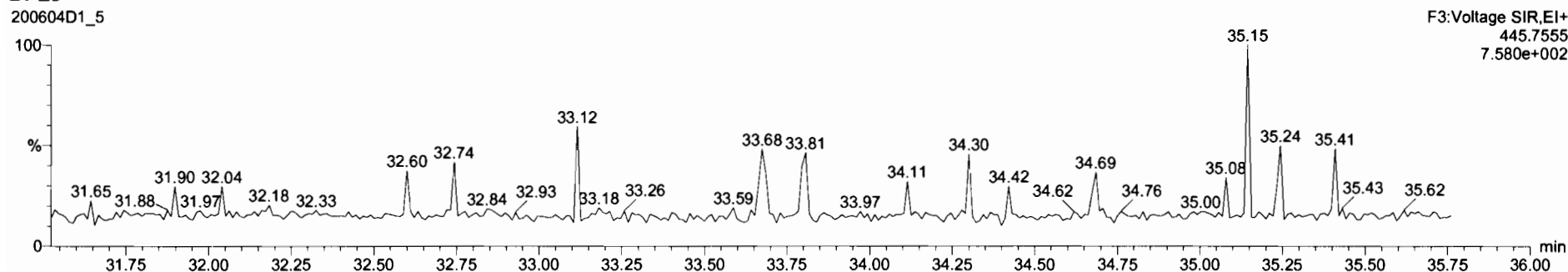
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13C-1,2,3,4,7,8-HxCDF

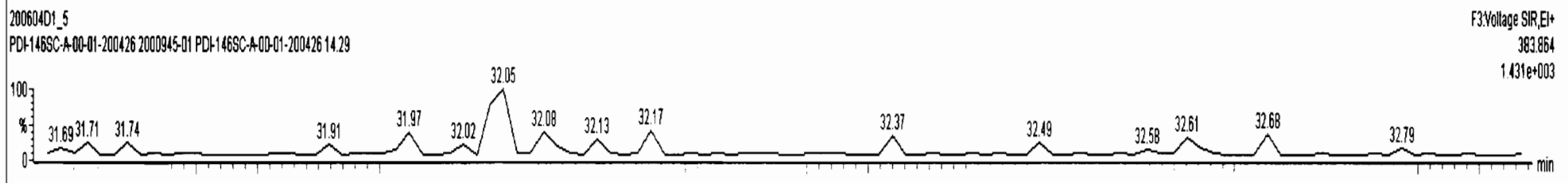
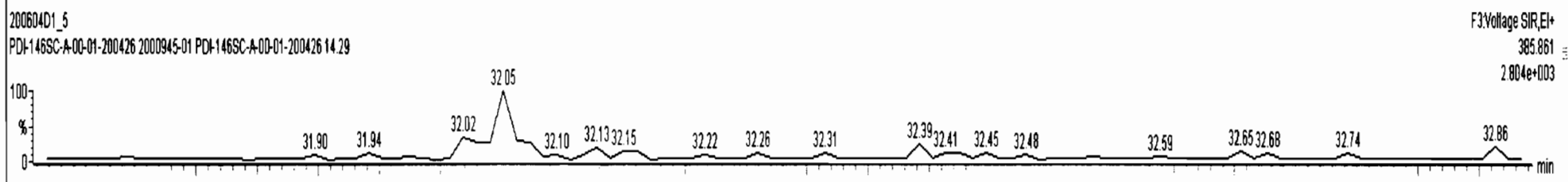
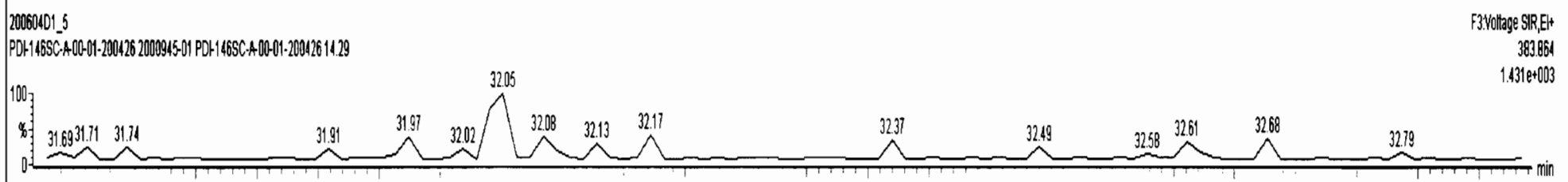
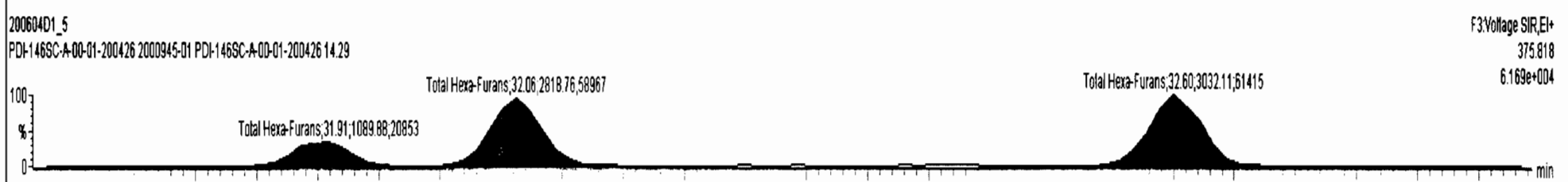


DPE3



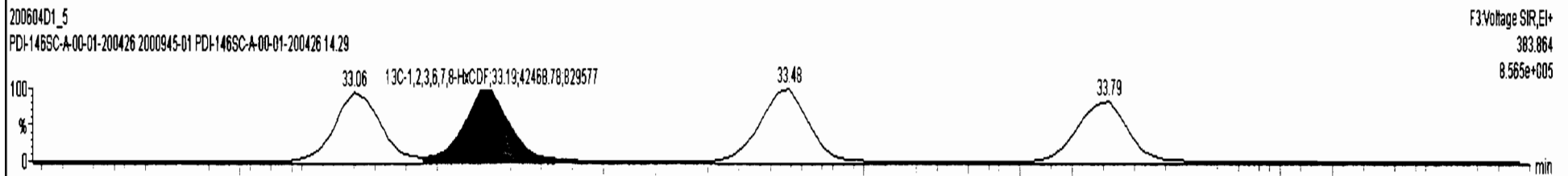
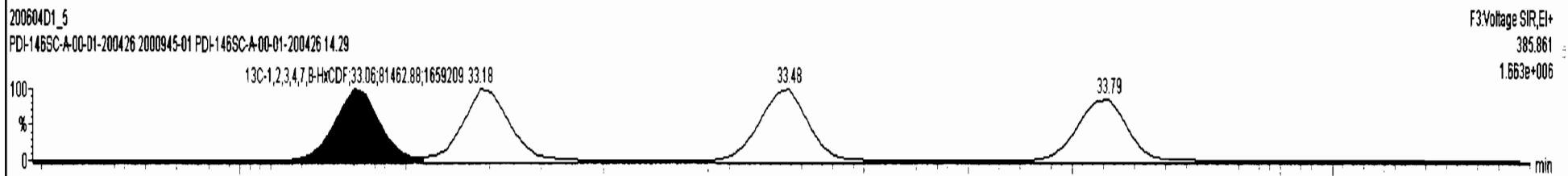
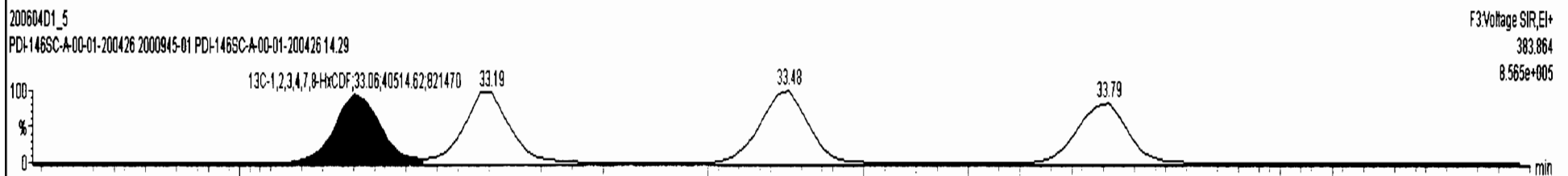
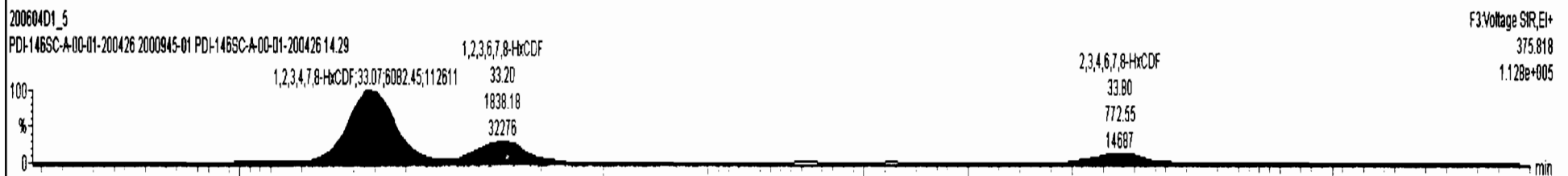
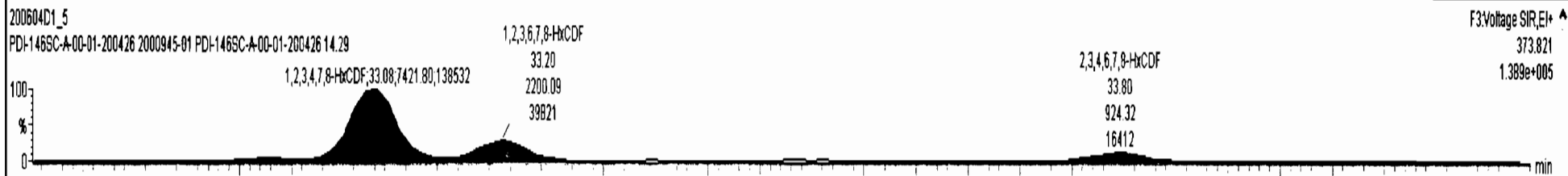


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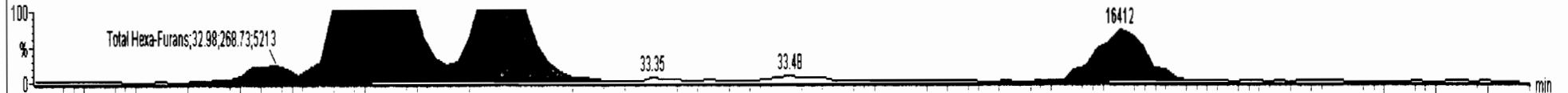
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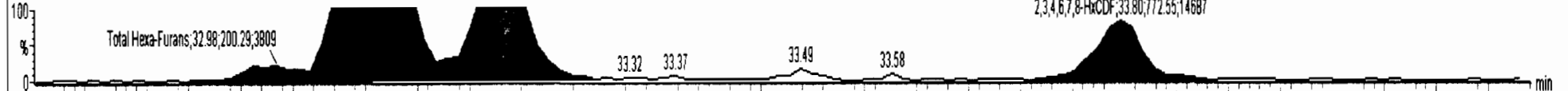


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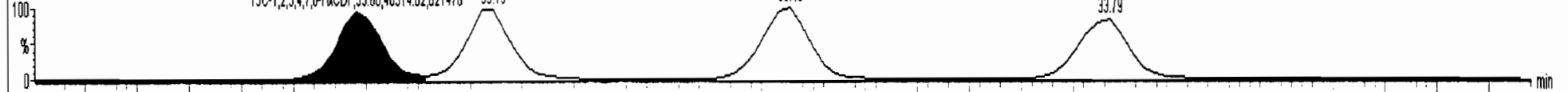
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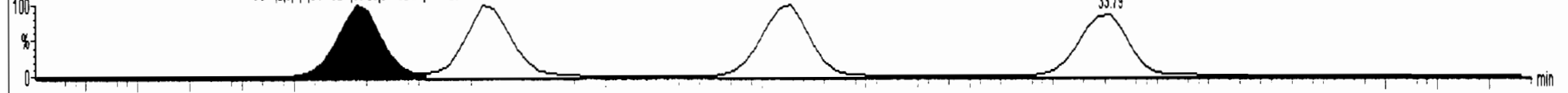
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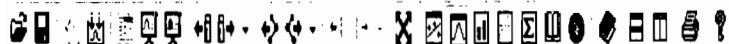
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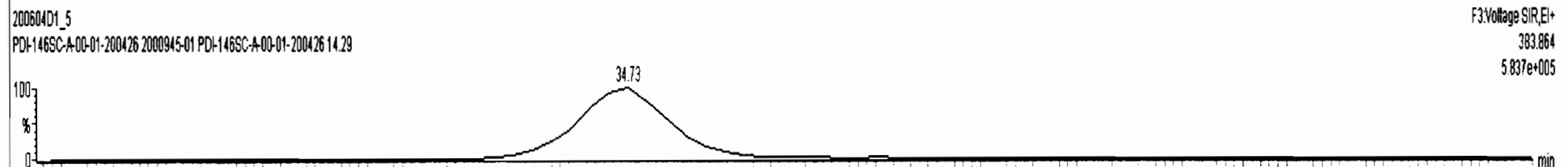
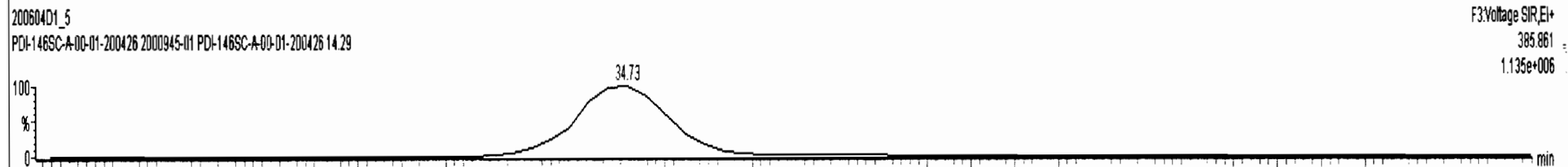
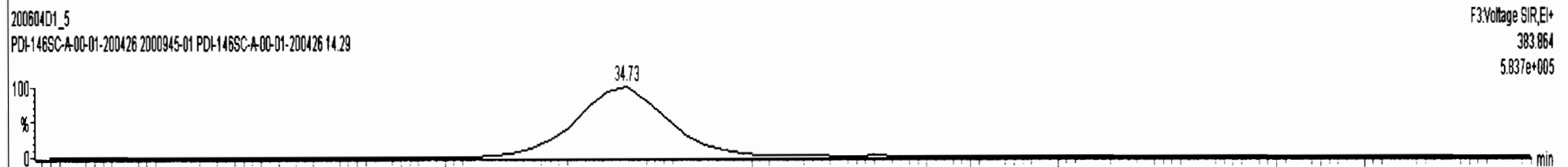
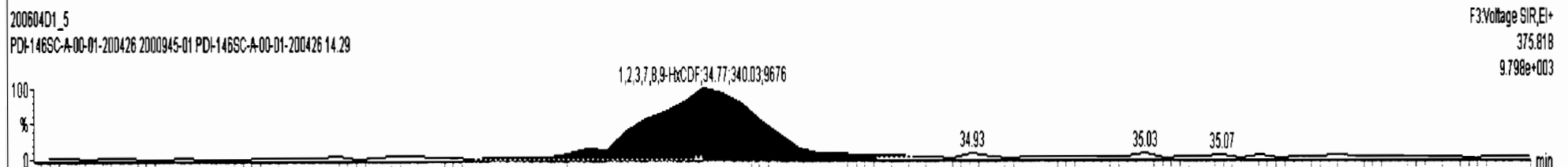
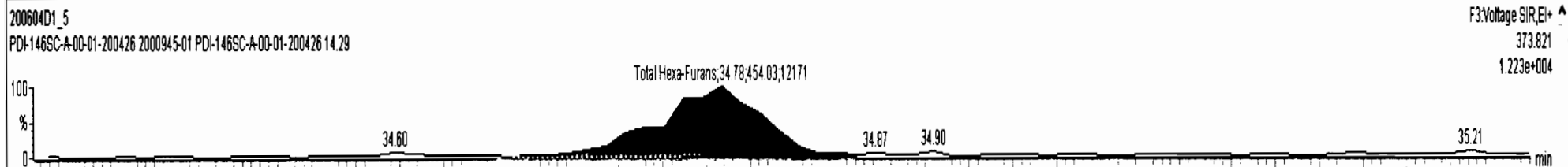
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8.565e+005



200604D1\_5 F3:Voltage SIR,EI+  
 PDI-146SC-A-00-01-200426 2000945-01 PDI-146SC-A-00-01-200426 14.29 385.861



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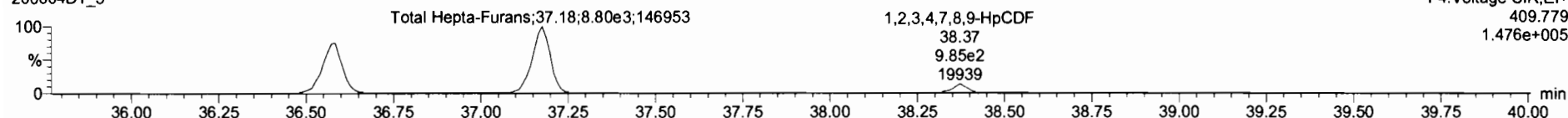
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**1,2,3,4,6,7,8-HpCDF**

200604D1\_5

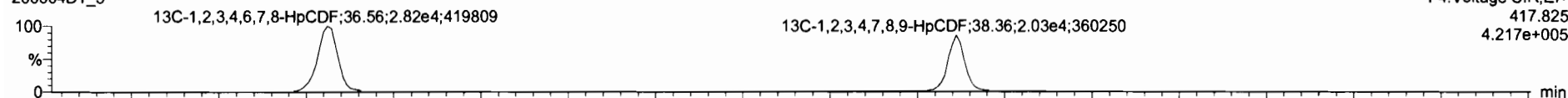


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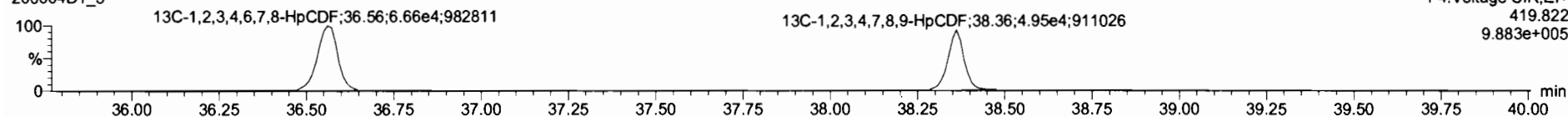


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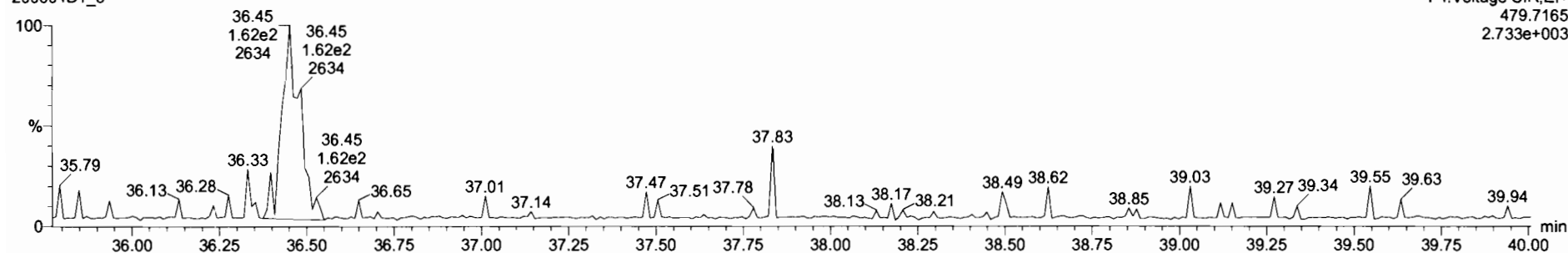


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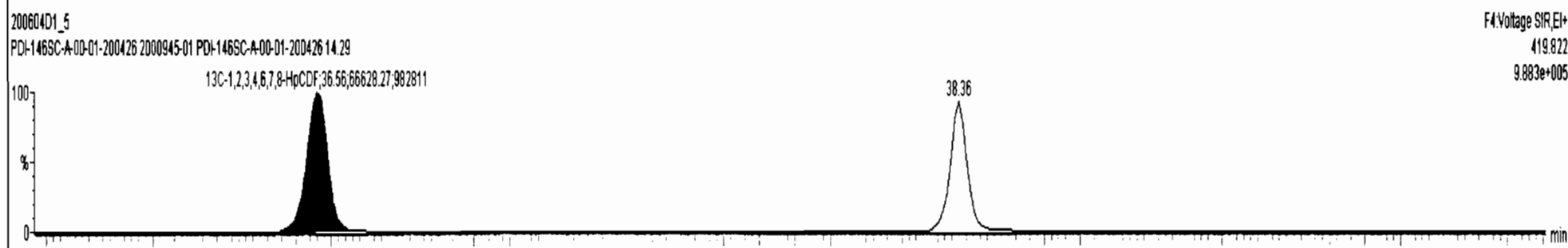
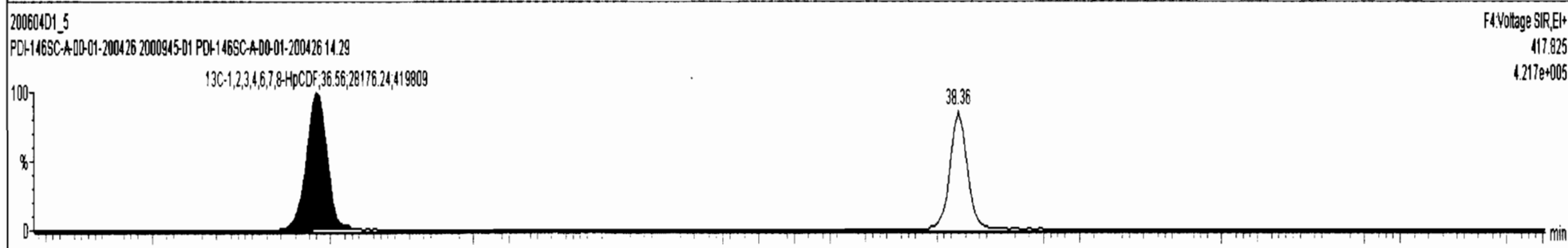
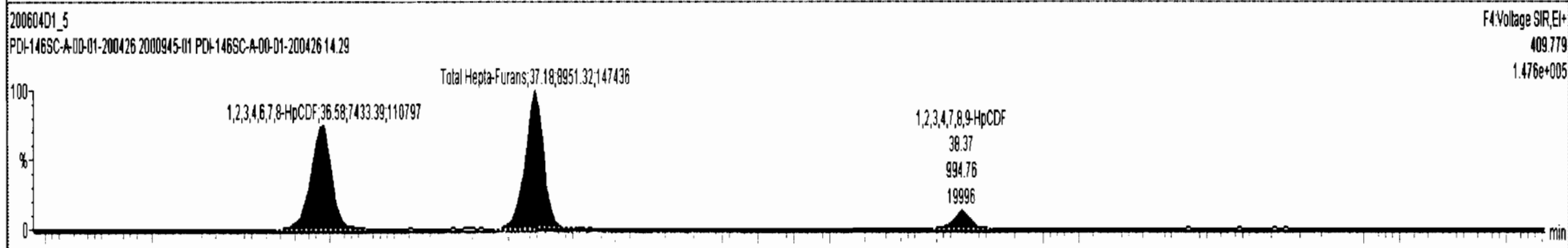
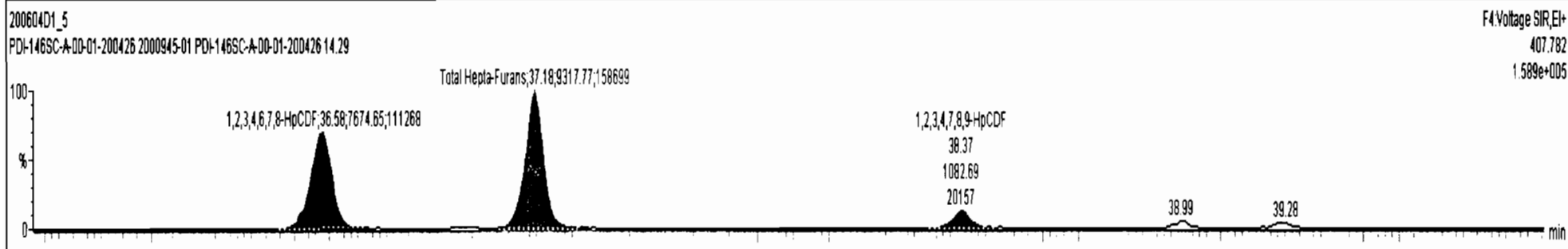
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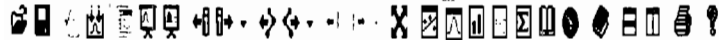
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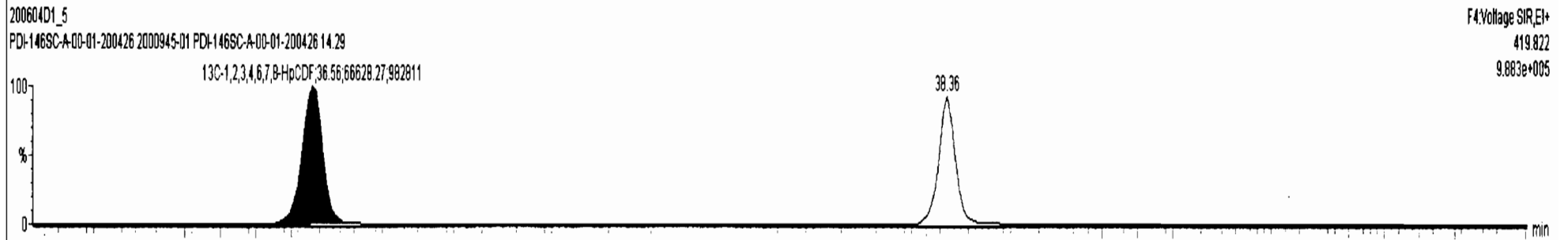
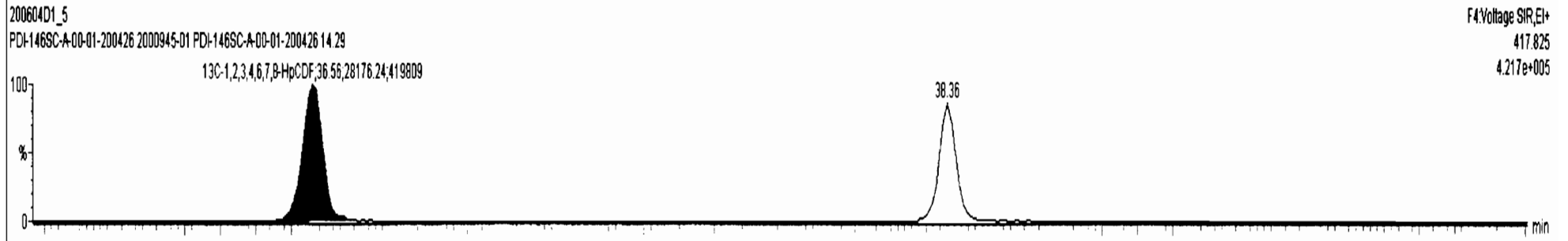
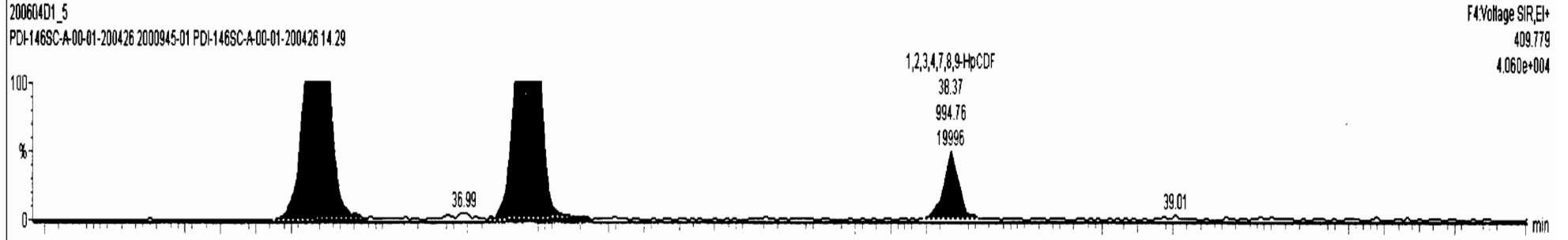
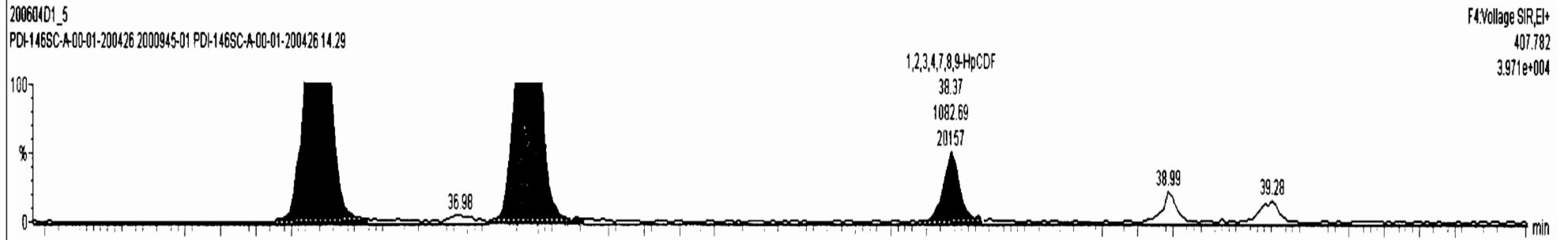


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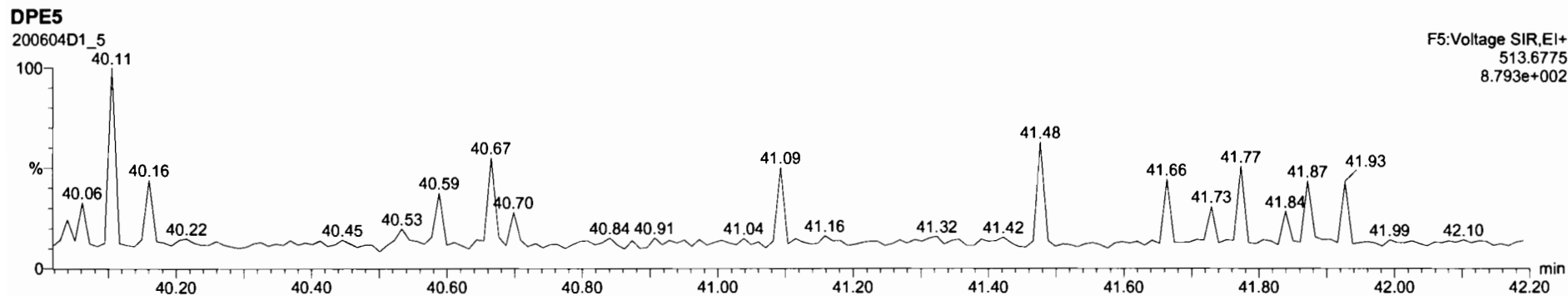
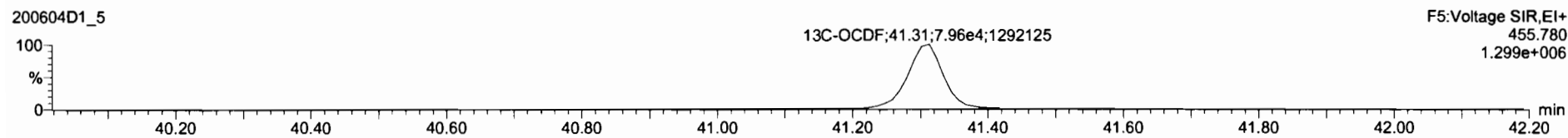
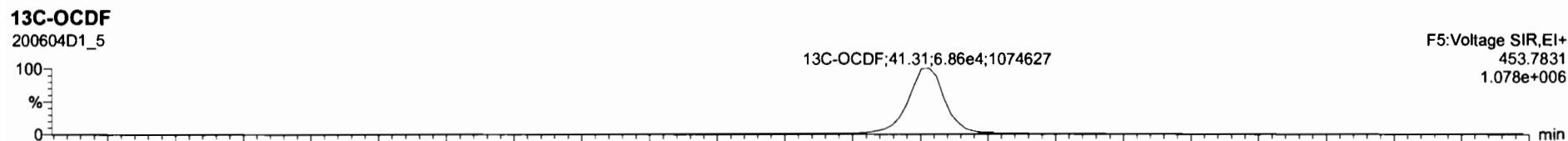
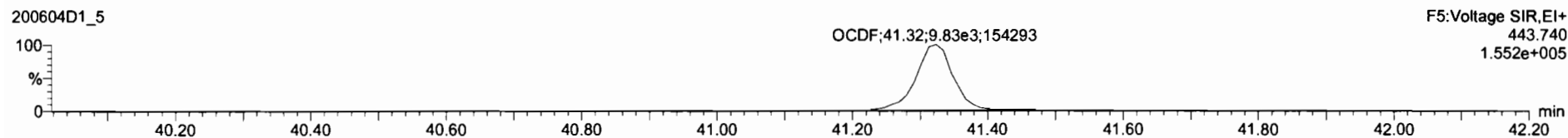
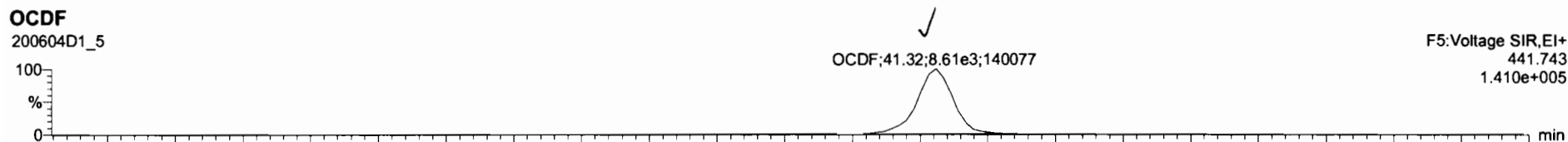




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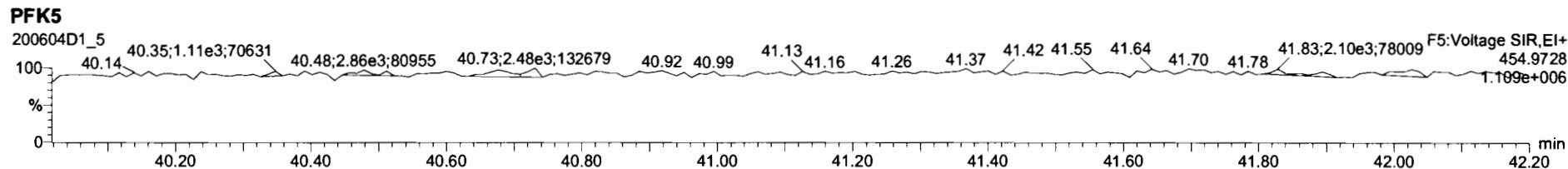
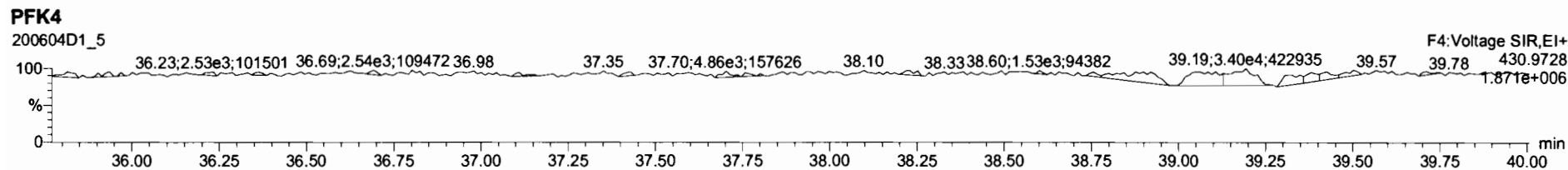
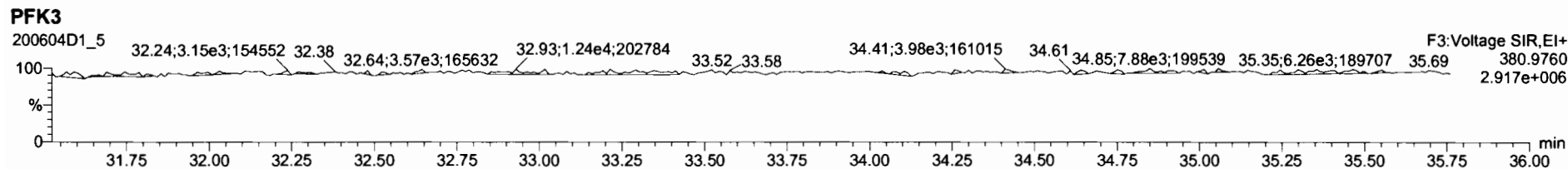
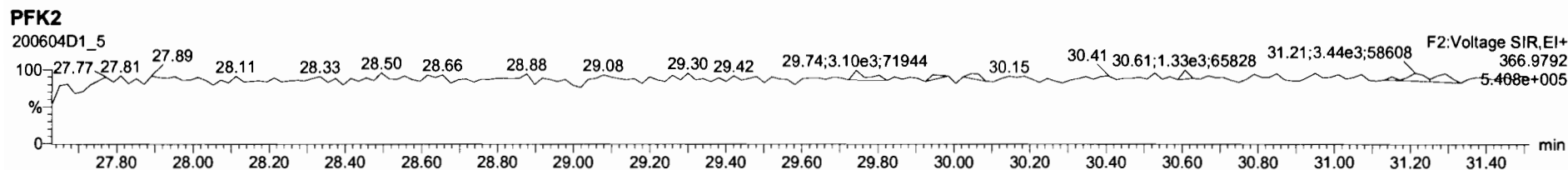
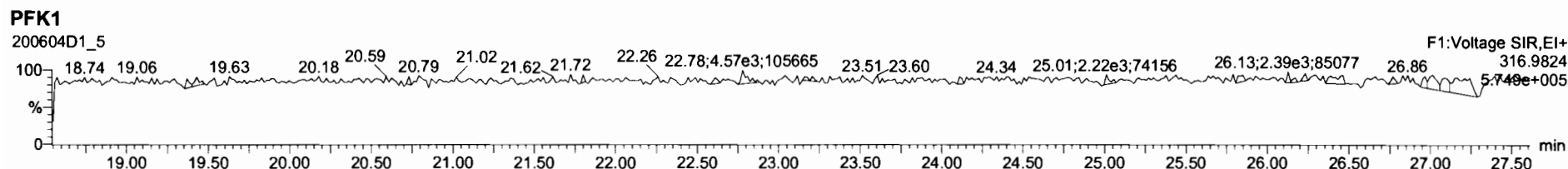
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Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_6.qld

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*DB 6/5/20 C106/05/2020*

Method: Untitled 27 Apr 2020 14:17:24

Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200604D1\_6, Date: 04-Jun-2020, Time: 15:46:07, ID: 2000945-02 PDI-146SC-A-01-02-200426 12.02, Description: PDI-146SC-A-01-02-200426

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	2.59e2	0.79	NO	0.987	10.580	26.142	26.14	1.001	1.001	0.36110		0.156	0.361
2	2 1,2,3,7,8-PeCDD	2.03e2	0.85	YES	0.982	10.580	30.669	30.67	1.001	1.001	0.34648		0.188	0.305
3	3 1,2,3,4,7,8-HxCDD			NO	1.17	10.580	33.971		1.000				0.232	
4	4 1,2,3,6,7,8-HxCDD	4.21e2	1.07	NO	1.04	10.580	34.070	34.09	1.000	1.001	0.72460		0.241	0.725
5	5 1,2,3,7,8,9-HxCDD	2.24e2	1.38	NO	1.00	10.580	34.401	34.38	1.001	1.000	0.39968		0.251	0.400
6	6 1,2,3,4,6,7,8-HpCDD	1.07e4	1.02	NO	0.992	10.580	37.856	37.86	1.000	1.000	23.721		0.403	23.7
7	7 OCDD	9.38e4	0.89	NO	1.04	10.580	41.115	41.13	1.000	1.000	238.44		0.382	238
8	8 2,3,7,8-TCDF	5.01e3	0.75	NO	0.882	10.580	25.341	25.35	1.001	1.001	6.4065	(6.25)	0.197	6.41
9	9 1,2,3,7,8-PeCDF	5.16e3	1.58	NO	1.05	10.580	29.502	29.48	1.001	1.000	5.6709		0.126	5.67
10	10 2,3,4,7,8-PeCDF	2.41e3	1.65	NO	1.06	10.580	30.387	30.39	1.001	1.001	2.6579		0.116	2.66
11	11 1,2,3,4,7,8-HxCDF	5.88e3	1.21	NO	1.08	10.580	33.083	33.09	1.000	1.000	7.9900		0.125	7.99
12	12 1,2,3,6,7,8-HxCDF	1.79e3	1.12	NO	1.04	10.580	33.213	33.22	1.000	1.000	2.3951		0.122	2.40
13	13 2,3,4,6,7,8-HxCDF	5.12e2	1.36	NO	1.11	10.580	33.830	33.81	1.001	1.000	0.68077		0.137	0.681
14	14 1,2,3,7,8,9-HxCDF	1.63e2	1.21	NO	1.06	10.580	34.740	34.75	1.000	1.000	0.25128		0.175	0.251
15	15 1,2,3,4,6,7,8-HpCDF	3.76e3	0.99	NO	1.13	10.580	36.620	36.59	1.001	1.000	6.1227		0.178	6.12
16	16 1,2,3,4,7,8,9-HpCDF	9.27e2	1.03	NO	1.33	10.580	38.383	38.40	1.000	1.001	1.6743		0.170	1.67
17	17 OCDF	6.23e3	0.87	NO	0.933	10.580	41.334	41.35	1.000	1.000	14.294		0.196	14.3
18	18 13C-2,3,7,8-TCDD	1.37e5	0.77	NO	1.21	10.580	26.210	26.11	1.026	1.022	145.08	76.7	0.362	
19	19 13C-1,2,3,7,8-PeCDD	1.13e5	0.63	NO	0.996	10.580	30.706	30.65	1.202	1.200	144.50	76.4	0.271	
20	20 13C-1,2,3,4,7,8-HxCDD	9.12e4	1.28	NO	0.679	10.580	33.958	33.96	1.014	1.014	164.17	86.9	0.611	
21	21 13C-1,2,3,6,7,8-HxCDD	1.06e5	1.34	NO	0.850	10.580	34.068	34.07	1.017	1.017	152.31	80.6	0.488	
22	22 13C-1,2,3,7,8,9-HxCDD	1.06e5	1.28	NO	0.798	10.580	34.340	34.37	1.025	1.026	161.77	85.6	0.519	
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.63e4	1.07	NO	0.697	10.580	37.809	37.85	1.129	1.130	151.26	80.0	0.515	
24	24 13C-OCDD	1.44e5	0.89	NO	0.579	10.580	40.836	41.12	1.219	1.228	302.89	80.1	0.493	
25	25 13C-2,3,7,8-TCDF	1.68e5	0.78	NO	1.13	10.580	25.291	25.32	0.990	0.991	136.24	72.1	0.466	
26	26 13C-1,2,3,7,8-PeCDF	1.65e5	1.58	NO	0.996	10.580	29.524	29.48	1.156	1.154	151.44	80.1	0.319	
27	27 13C-2,3,4,7,8-PeCDF	1.62e5	1.59	NO	0.969	10.580	30.425	30.37	1.191	1.189	153.10	81.0	0.328	
28	28 13C-1,2,3,4,7,8-HxCDF	1.29e5	0.50	NO	1.06	10.580	33.087	33.08	0.988	0.988	148.35	78.5	0.533	
29	29 13C-1,2,3,6,7,8-HxCDF	1.36e5	0.50	NO	1.18	10.580	33.221	33.20	0.992	0.991	140.96	74.6	0.480	
30	30 13C-2,3,4,6,7,8-HxCDF	1.28e5	0.50	NO	1.06	10.580	33.794	33.80	1.009	1.009	147.84	78.2	0.534	
31	31 13C-1,2,3,7,8,9-HxCDF	1.16e5	0.49	NO	0.879	10.580	34.695	34.74	1.036	1.037	161.62	85.5	0.641	

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#	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	1.03e5	0.42	NO	0.893	10.580	36.403	36.58	1.087	1.092	140.69	74.4	0.458	
33	33 13C-1,2,3,4,7,8,9-HpCDF	7.85e4	0.41	NO	0.613	10.580	38.412	38.38	1.147	1.146	156.29	82.7	0.666	
34	34 13C-OCDF	1.77e5	0.89	NO	0.741	10.580	40.991	41.33	1.224	1.234	290.88	76.9	0.472	
35	35 37Cl-2,3,7,8-TCDD	5.51e4			1.18	10.580	26.208	26.13	1.026	1.023	59.524	78.7	0.0744	
36	36 13C-1,2,3,4-TCDD	1.48e5	0.82	NO	1.00	10.580	25.480	25.55	1.000	1.000	189.03	100	0.437	
37	37 13C-1,2,3,4-TCDF	2.06e5	0.78	NO	1.00	10.580	24.020	24.09	1.000	1.000	189.03	100	0.526	
38	38 13C-1,2,3,4,6,9-HxCDF	1.55e5	0.50	NO	1.00	10.580	33.530	33.49	1.000	1.000	189.03	100	0.564	
39	39 Total Tetra-Dioxins				0.987	10.580	24.620		0.000		0.87585		0.156	0.876
40	40 Total Penta-Dioxins				0.982	10.580	29.960		0.000		0.81965		0.186	1.13
41	41 Total Hexa-Dioxins				1.04	10.580	33.635		0.000		8.1407		0.249	8.14
42	42 Total Hepta-Dioxins				0.992	10.580	37.640		0.000		56.720		0.403	56.7
43	43 Total Tetra-Furans				0.882	10.580	23.610		0.000		22.371		0.197	27.1
44	44 1st Func. Penta-Furans				1.05	10.580	27.090		0.000		1.3917		0.0497	1.39
45	45 Total Penta-Furans				1.05	10.580	29.275		0.000		17.349		0.122	19.3
46	46 Total Hexa-Furans				1.11	10.580	33.555		0.000		17.218		0.134	17.2
47	47 Total Hepta-Furans				1.13	10.580	37.835		0.000		16.130		0.188	16.1

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Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_6.qld

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**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.72	1.658e3	2.661e3	1.720e2	1.974e2	0.87	NO	3.694e2	0.51474	0.51474	0.156
2	2,3,7,8-TCDD	26.14	1.791e3	2.384e3	1.144e2	1.448e2	0.79	NO	2.591e2	0.36110	0.36110	0.156

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.62	1.747e3	2.855e3	1.058e2	1.668e2	0.63	NO	2.726e2	0.46410	0.46410	0.186
2	Total Penta-Dioxins	29.50	1.688e3	2.287e3	8.607e1	1.227e2	0.70	NO	2.088e2	0.35555	0.35555	0.186
3	1,2,3,7,8-PeCDD	30.67	1.970e3	1.807e3	9.344e1	1.100e2	0.85	YES	2.035e2	0.00000	0.30542	0.186

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.45	2.334e4	1.936e4	1.224e3	9.824e2	1.25	NO	2.207e3	3.9857	3.9857	0.249
2	Total Hexa-Dioxins	33.02	2.876e3	2.650e3	1.545e2	1.190e2	1.30	NO	2.735e2	0.49394	0.49394	0.249
3	Total Hexa-Dioxins	33.29	1.289e4	1.025e4	7.343e2	6.702e2	1.10	NO	1.405e3	2.5368	2.5368	0.249
4	1,2,3,6,7,8-HxCDD	34.09	4.257e3	3.507e3	2.175e2	2.034e2	1.07	NO	4.210e2	0.72460	0.72460	0.241
5	1,2,3,7,8,9-HxCDD	34.38	2.175e3	1.799e3	1.301e2	9.416e1	1.38	NO	2.243e2	0.39968	0.39968	0.251

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.99	1.175e5	1.209e5	7.429e3	7.516e3	0.99	NO	1.494e4	32.999	32.999	0.403
2	1,2,3,4,6,7,8-HpCDD	37.86	9.804e4	9.475e4	5.426e3	5.316e3	1.02	NO	1.074e4	23.721	23.721	0.403

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Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_6.qld

Last Altered: Friday, June 05, 2020 11:47:14 Pacific Daylight Time

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Name: 200604D1\_6, Date: 04-Jun-2020, Time: 15:46:07, ID: 2000945-02 PDI-146SC-A-01-02-200426 12.02, Description: PDI-146SC-A-01-02-200426

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.59	7.400e2	1.792e3	8.770e1	1.172e2	0.75	NO	2.049e2	0.26222	0.26222	0.197
2	Total Tetra-Furans	21.08	9.450e2	1.104e3	5.633e1	8.564e1	0.66	NO	1.420e2	0.18169	0.18169	0.197
3	Total Tetra-Furans	21.74	5.545e3	5.338e3	3.869e2	5.433e2	0.71	NO	9.302e2	1.1905	1.1905	0.197
4	Total Tetra-Furans	22.34	2.012e3	1.930e3	2.270e2	2.701e2	0.84	NO	4.971e2	0.63617	0.63617	0.197
5	Total Tetra-Furans	22.69	9.104e3	1.186e4	7.023e2	9.882e2	0.71	NO	1.691e3	2.1636	2.1636	0.197
6	Total Tetra-Furans	23.10	3.627e3	4.681e3	2.634e2	3.972e2	0.66	NO	6.606e2	0.84544	0.84544	0.197
7	Total Tetra-Furans	23.41	1.997e3	2.721e3	1.253e2	1.641e2	0.76	NO	2.893e2	0.37030	0.37030	0.197
8	Total Tetra-Furans	24.02	3.284e3	4.654e3	1.849e2	2.285e2	0.81	NO	0.000e0	0.00000	0.52912	0.197
9	Total Tetra-Furans	24.09	1.382e4	1.606e4	1.195e3	1.470e3	0.81	NO	0.000e0	0.00000	3.4115	0.197
10	Total Tetra-Furans	24.54	3.176e4	3.945e4	2.326e3	2.987e3	0.78	NO	5.314e3	6.8007	6.8007	0.197
11	Total Tetra-Furans	24.81	2.501e3	2.846e3	1.510e2	1.817e2	0.83	NO	3.327e2	0.42585	0.42585	0.197
12	Total Tetra-Furans	24.96	1.103e3	1.942e3	7.316e1	1.064e2	0.69	NO	1.795e2	0.22976	0.22976	0.197
13	Total Tetra-Furans	25.24	1.120e4	1.911e4	7.691e2	1.076e3	0.71	NO	1.845e3	2.3618	2.3618	0.197
14	2,3,7,8-TCDF	25.35	3.257e4	4.321e4	2.153e3	2.852e3	0.75	NO	5.006e3	6.4065	6.4065	0.197
15	Total Tetra-Furans	25.67	2.906e3	4.181e3	1.546e2	2.336e2	0.66	NO	3.882e2	0.49677	0.49677	0.197
16	Total Tetra-Furans	27.14	6.128e3	7.643e3	3.333e2	3.501e2	0.95	YES	0.000e0	0.00000	0.79300	0.197

**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	27.14	1.390e4	8.686e3	7.688e2	4.871e2	1.58	NO	1.256e3	1.3917	1.3917	0.0497

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.58	3.357e4	1.840e4	2.645e3	1.669e3	1.58	NO	4.314e3	4.7809	4.7809	0.122
2	Total Penta-Furans	29.10	2.599e4	1.243e4	1.341e3	7.039e2	1.91	YES	0.000e0	0.00000	1.9888	0.122
3	Total Penta-Furans	29.32	1.071e4	6.820e3	6.032e2	3.696e2	1.63	NO	9.729e2	1.0780	1.0780	0.122
4	1,2,3,7,8-PeCDF	29.48	5.994e4	4.179e4	3.159e3	2.001e3	1.58	NO	5.160e3	5.6709	5.6709	0.126
5	Total Penta-Furans	29.74	1.970e4	1.363e4	1.143e3	7.865e2	1.45	NO	1.929e3	2.1380	2.1380	0.122
6	2,3,4,7,8-PeCDF	30.39	3.525e4	2.017e4	1.502e3	9.106e2	1.65	NO	2.412e3	2.6579	2.6579	0.116
7	Total Penta-Furans	30.41	2.123e4	1.108e4	5.537e2	3.695e2	1.50	NO	9.232e2	1.0230	1.0230	0.122

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Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_6.qld

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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	31.92	7.955e3	6.214e3	3.647e2	2.649e2	1.38	NO	6.296e2	0.84261	0.84261	0.134
2	Total Hexa-Furans	32.07	1.615e4	1.482e4	8.531e2	7.178e2	1.19	NO	1.571e3	2.1024	2.1024	0.134
3	Total Hexa-Furans	32.62	1.824e4	1.567e4	9.571e2	7.585e2	1.26	NO	1.716e3	2.2961	2.2961	0.134
4	1,2,3,4,7,8-HxCDF	33.09	6.158e4	4.993e4	3.218e3	2.665e3	1.21	NO	5.883e3	7.9900	7.9900	0.125
5	1,2,3,6,7,8-HxCDF	33.22	1.721e4	1.531e4	9.476e2	8.446e2	1.12	NO	1.792e3	2.3951	2.3951	0.122
6	2,3,4,6,7,8-HxCDF	33.81	5.278e3	3.462e3	2.948e2	2.171e2	1.36	NO	5.120e2	0.68077	0.68077	0.137
7	1,2,3,7,8,9-HxCDF	34.75	3.086e3	2.349e3	8.947e1	7.403e1	1.21	NO	1.635e2	0.25128	0.25128	0.175
8	Total Hexa-Furans	34.78	4.865e3	4.404e3	2.896e2	2.032e2	1.43	NO	4.928e2	0.65956	0.65956	0.134

**Hepta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.59	2.437e4	2.689e4	1.866e3	1.892e3	0.99	NO	3.758e3	6.1227	6.1227	0.178
2	Total Hepta-Furans	37.20	3.932e4	3.320e4	2.389e3	2.121e3	1.13	NO	4.510e3	8.3334	8.3334	0.188
3	1,2,3,4,7,8,9-HpCDF	38.40	8.544e3	9.186e3	4.713e2	4.559e2	1.03	NO	9.272e2	1.6743	1.6743	0.170

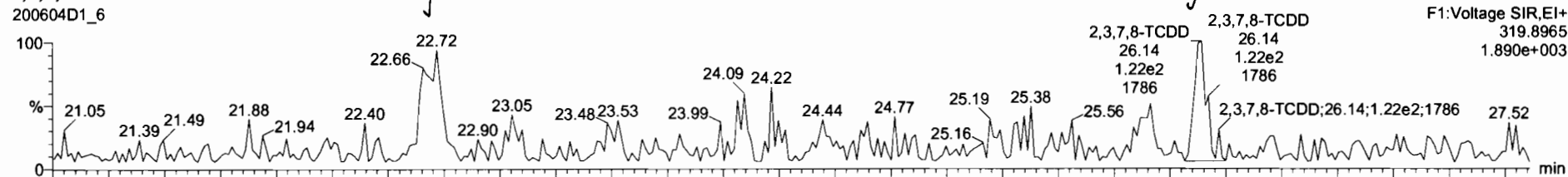
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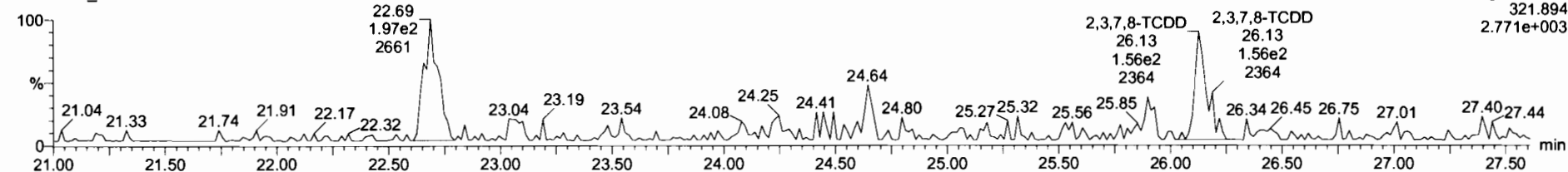
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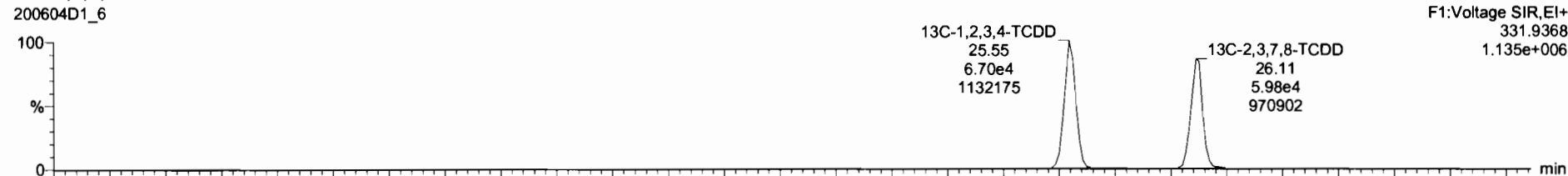
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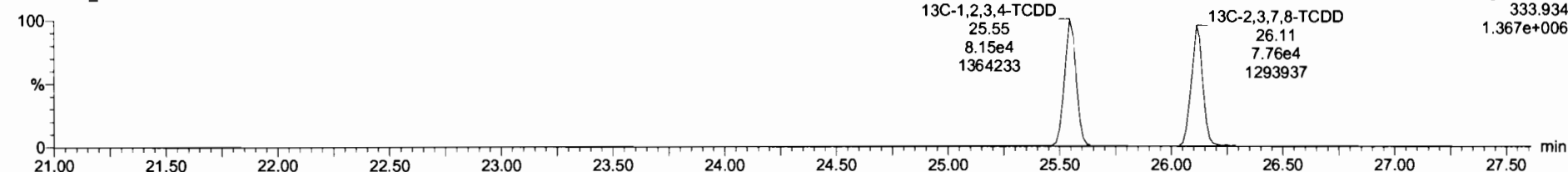
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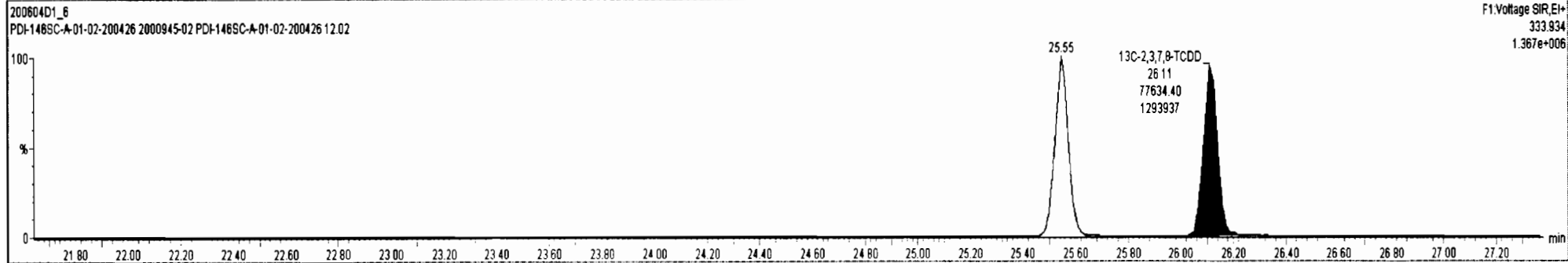
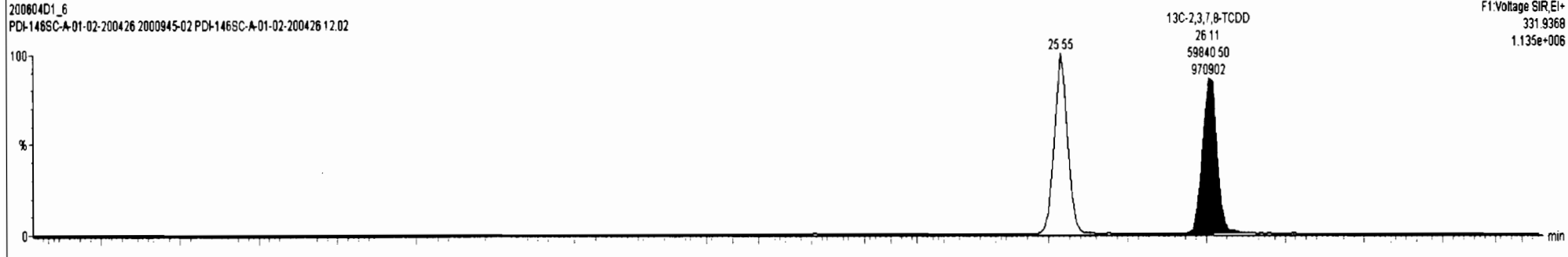
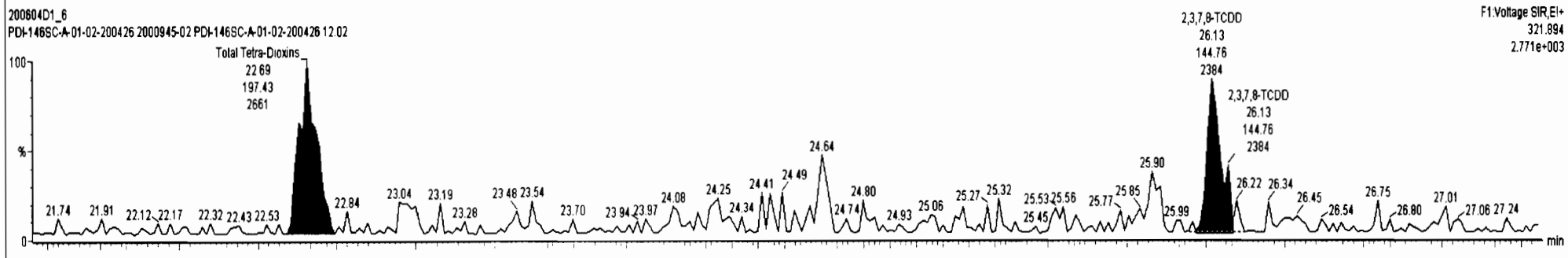
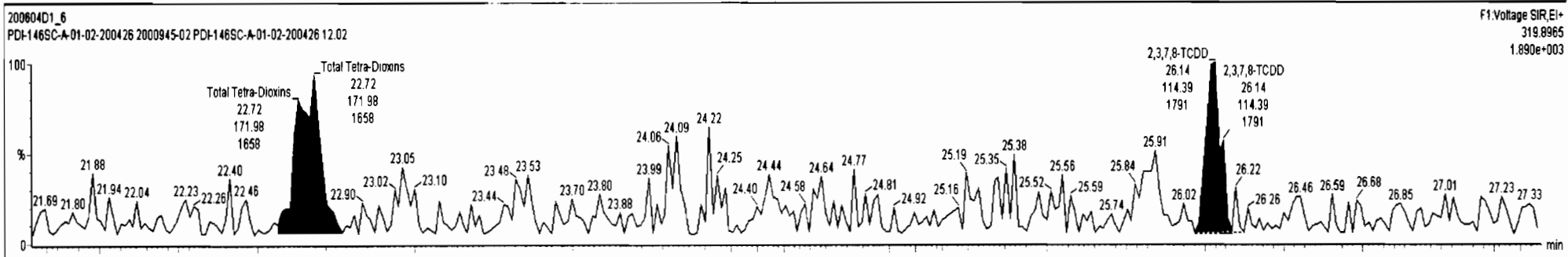


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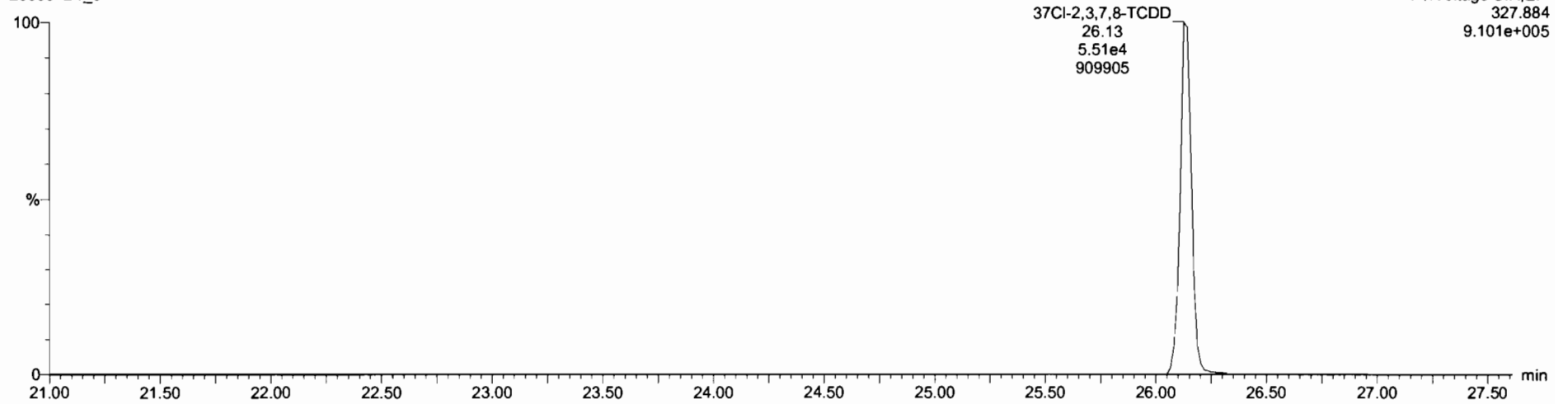
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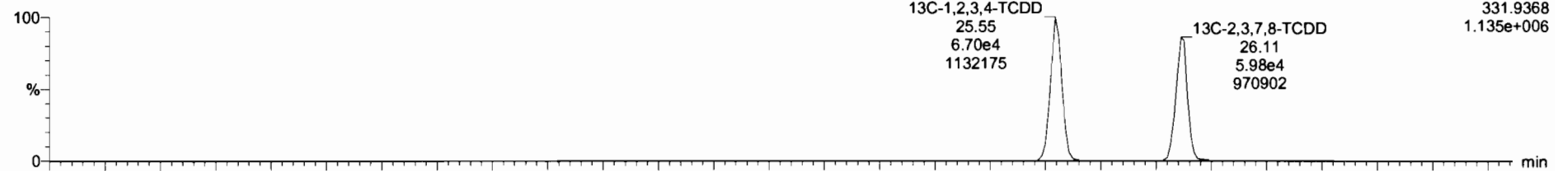
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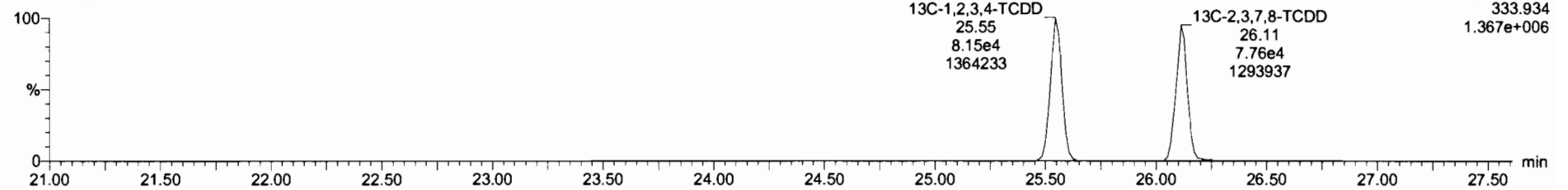


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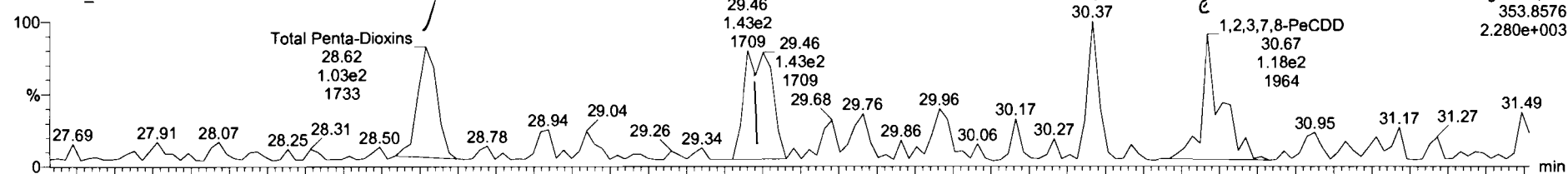
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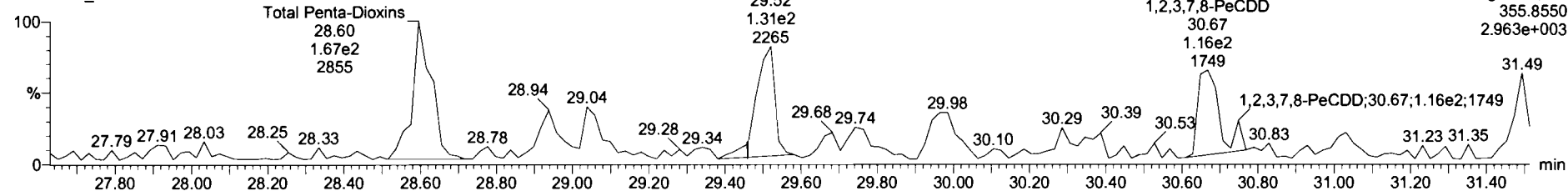
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1,2,3,7,8-PeCDD

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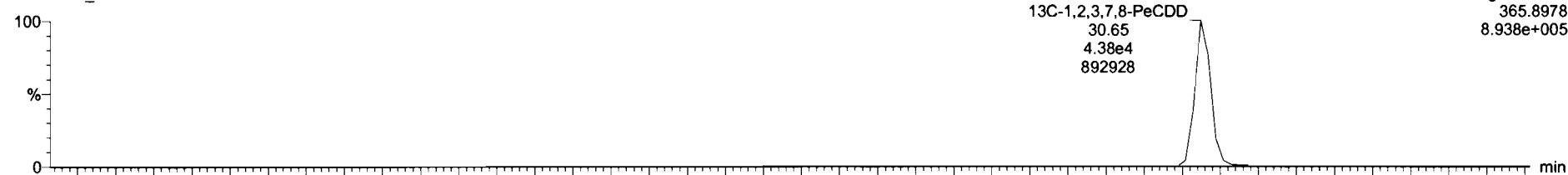


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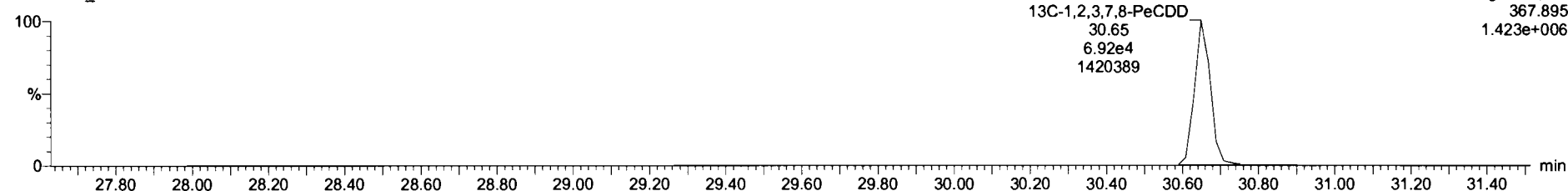


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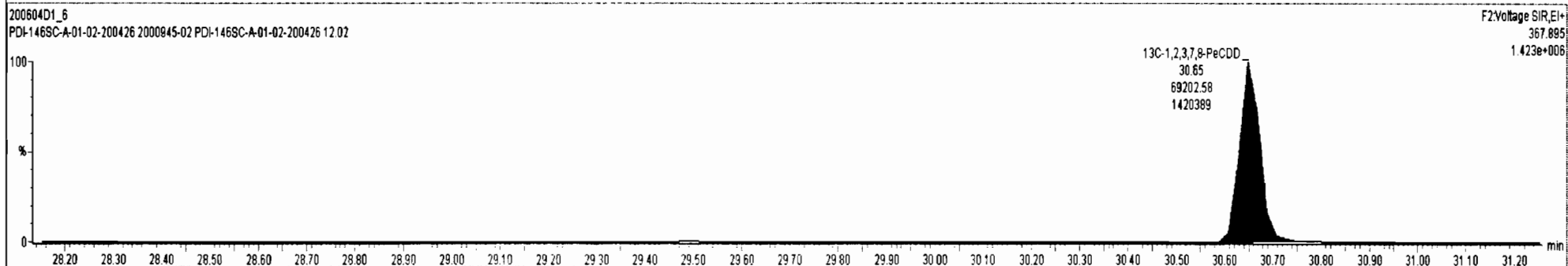
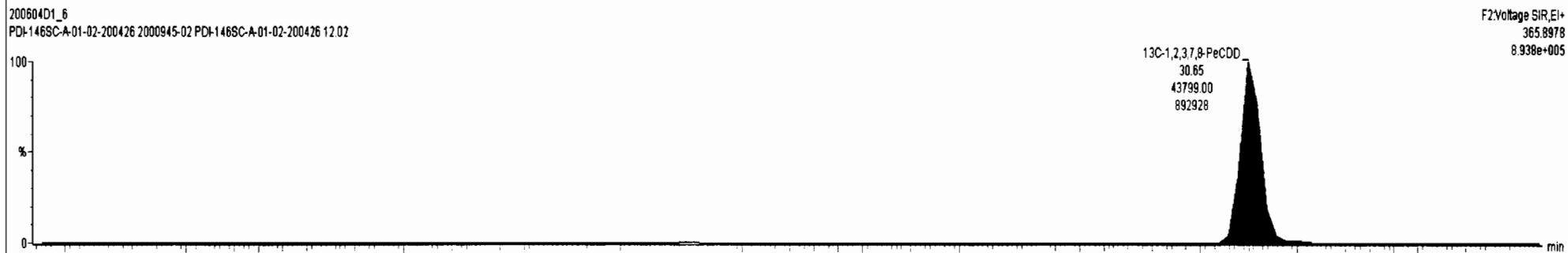
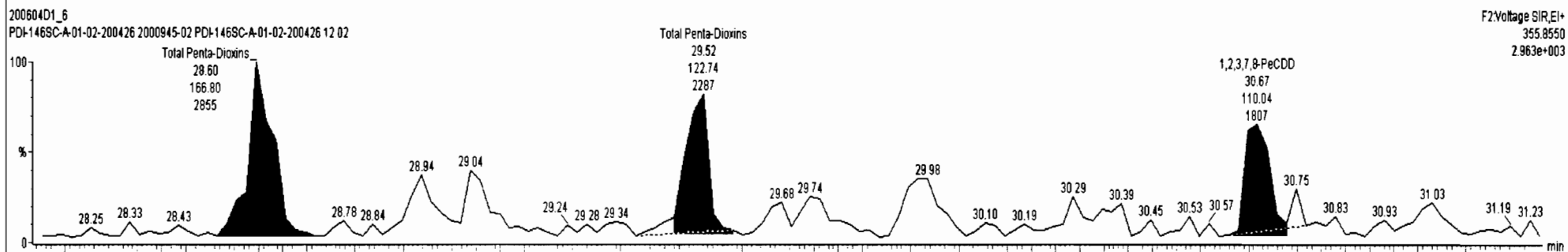
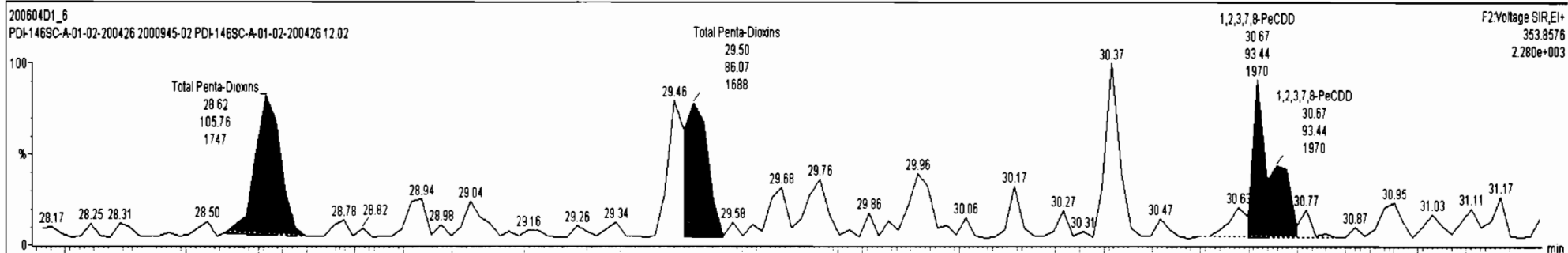
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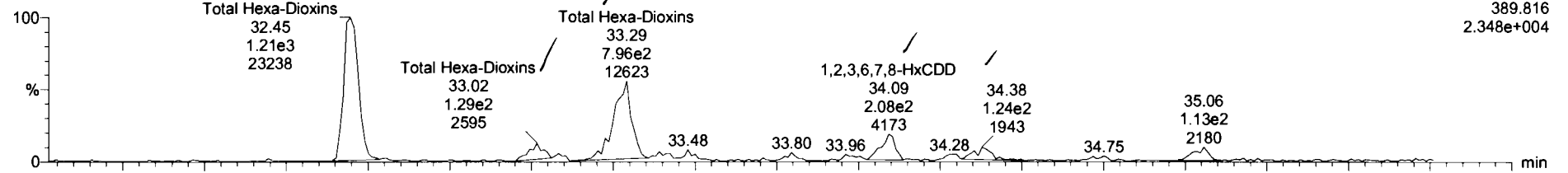
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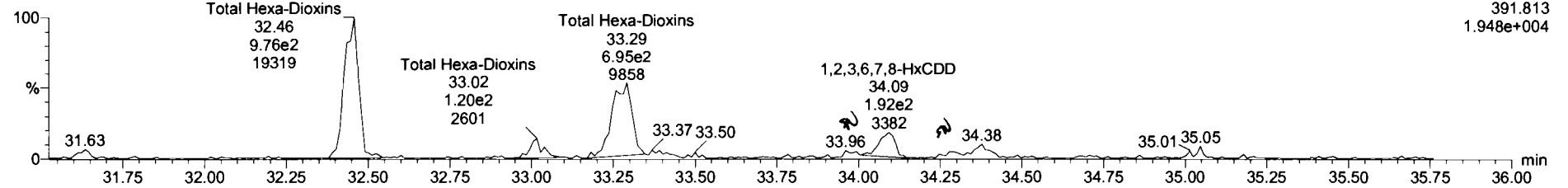
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1,2,3,4,7,8-HxCDD

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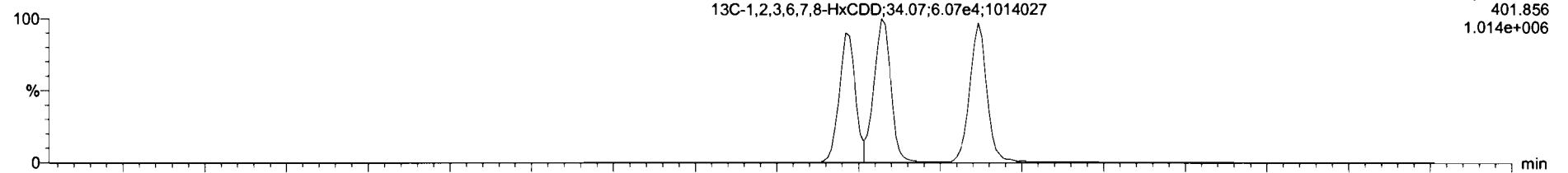


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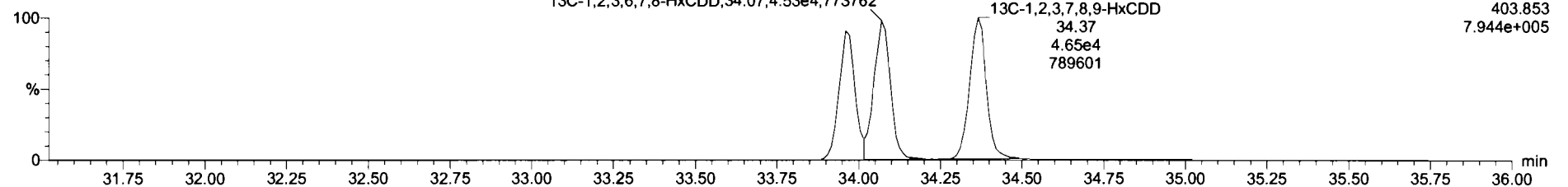


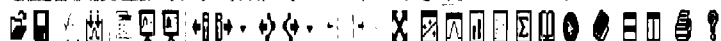
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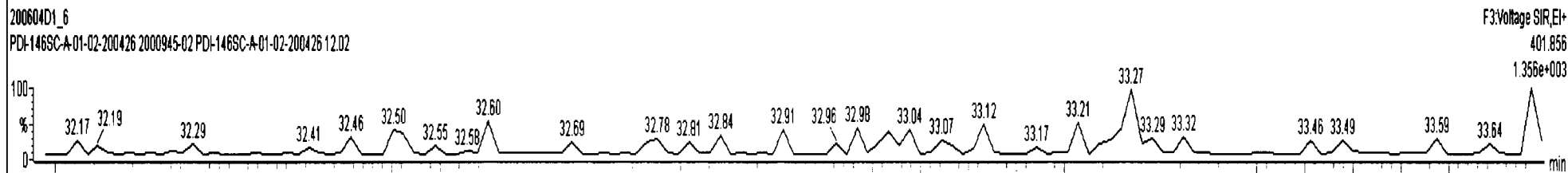
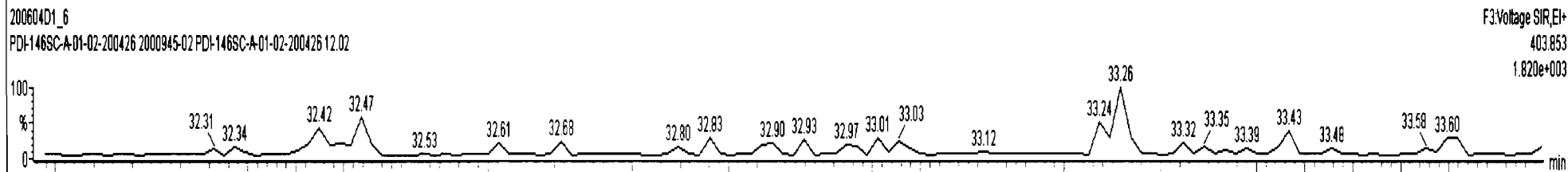
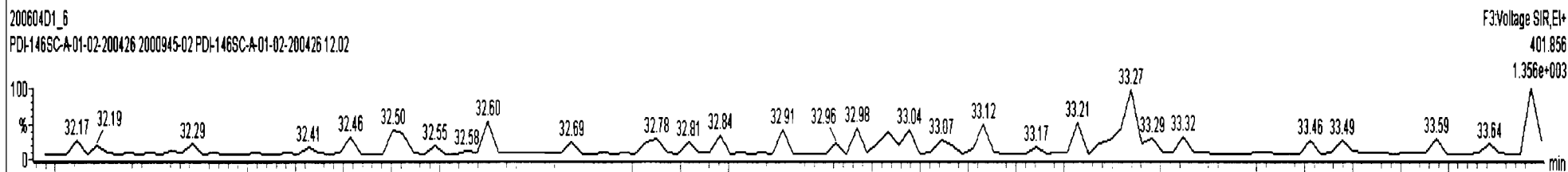
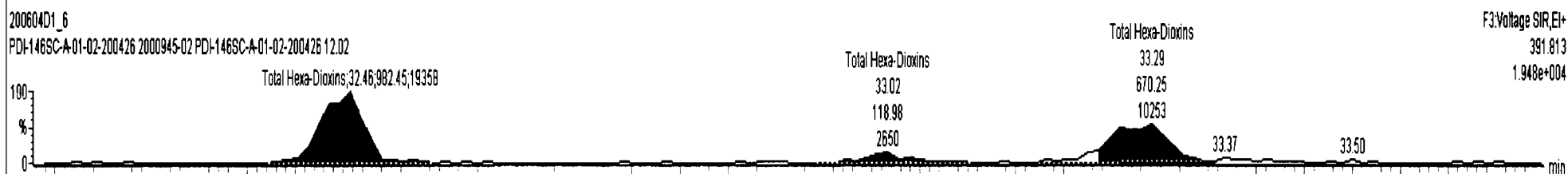
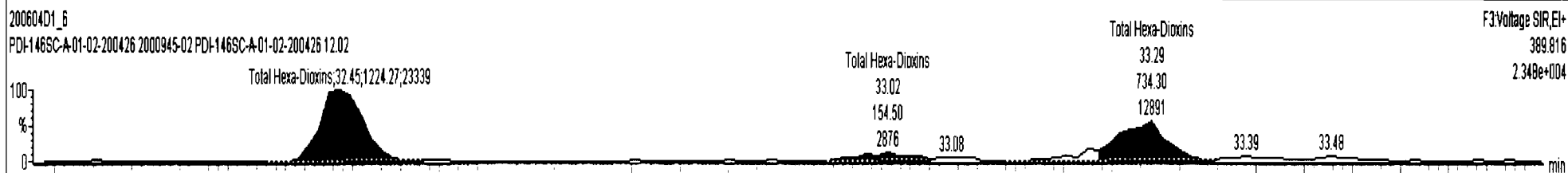


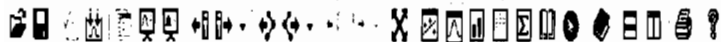
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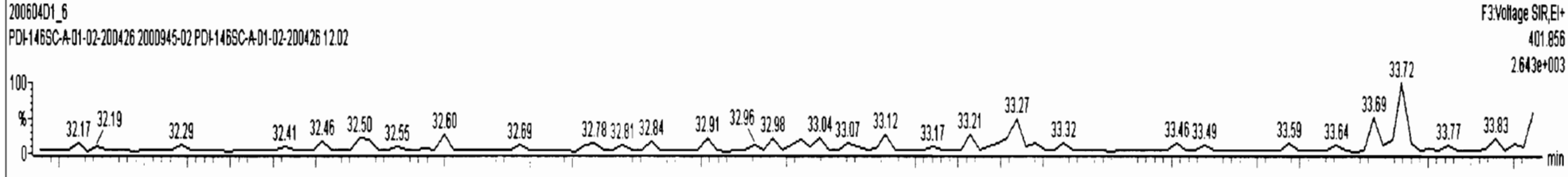
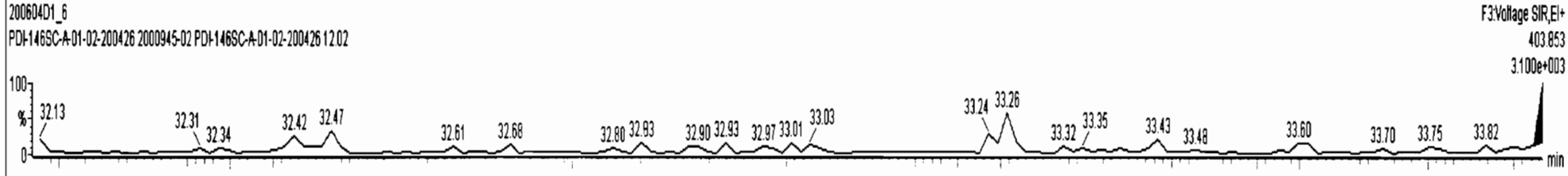
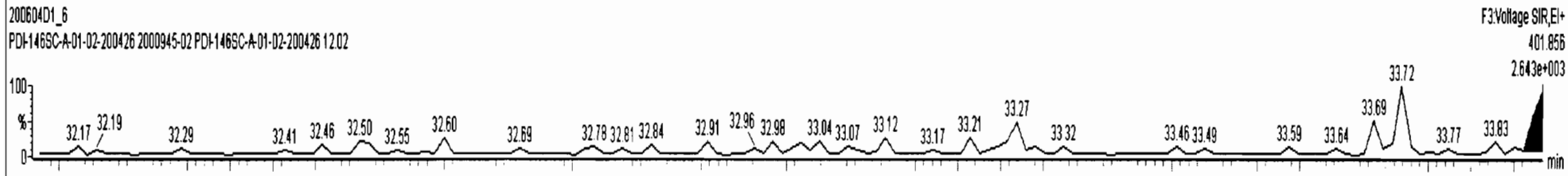
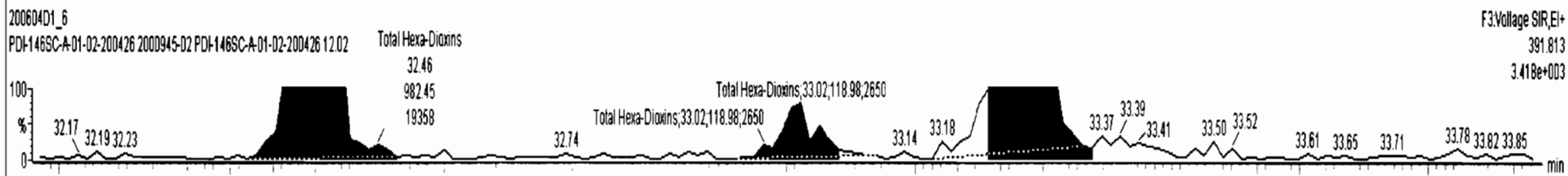
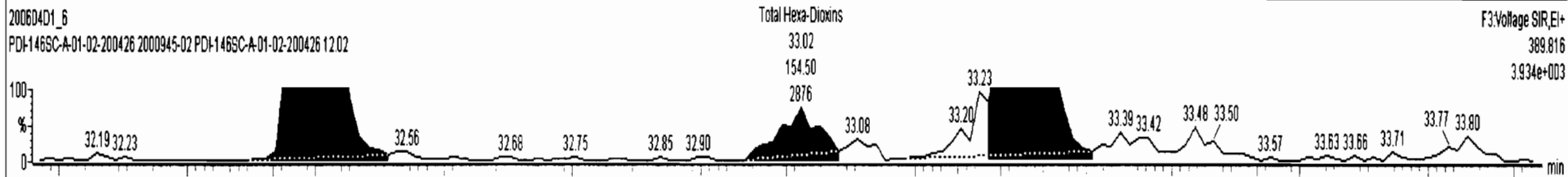


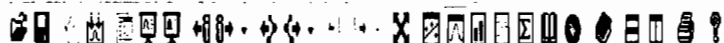
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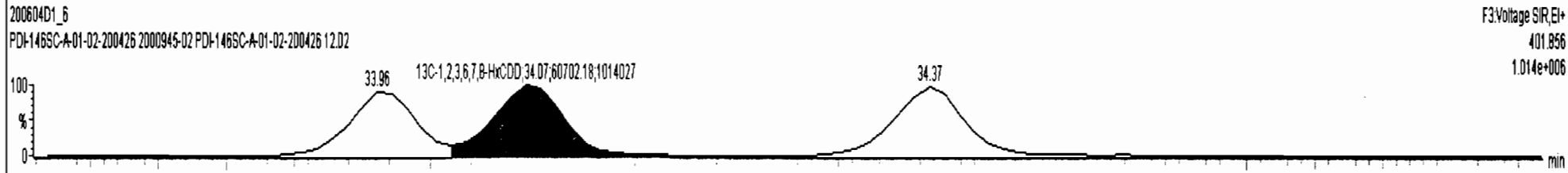
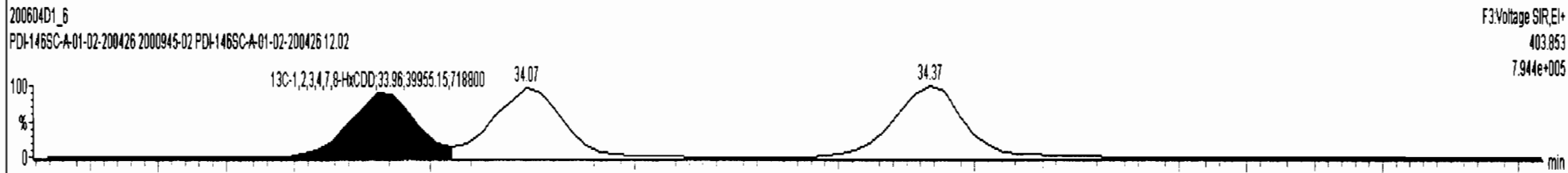
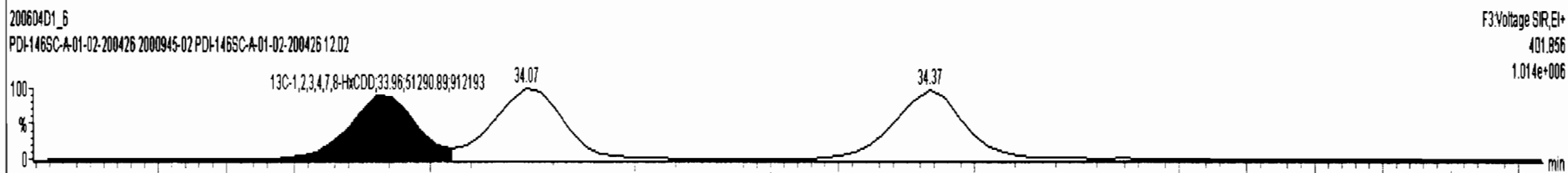
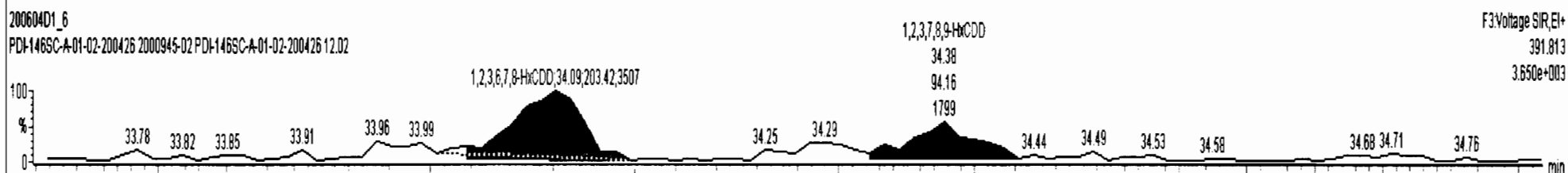
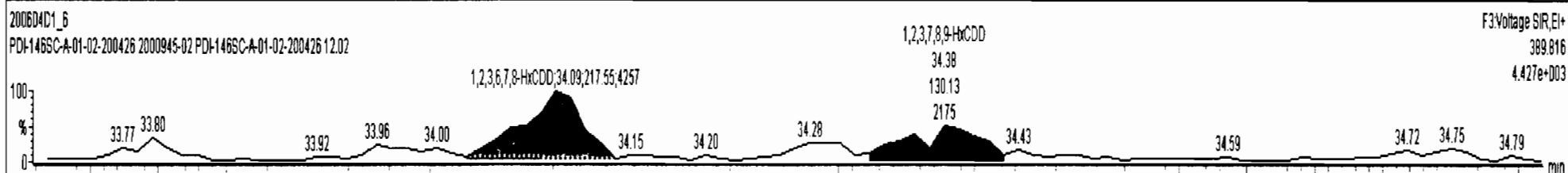


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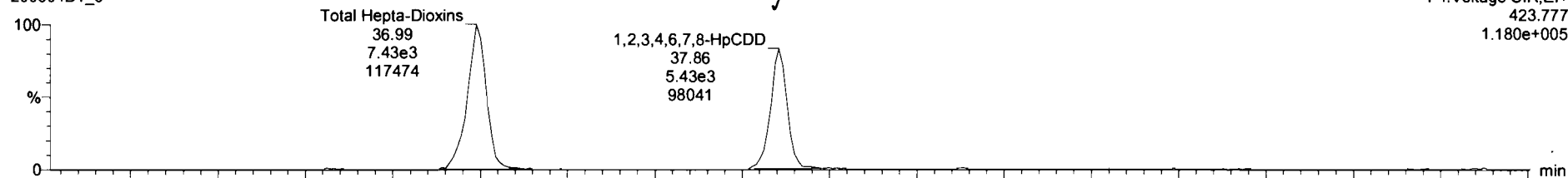
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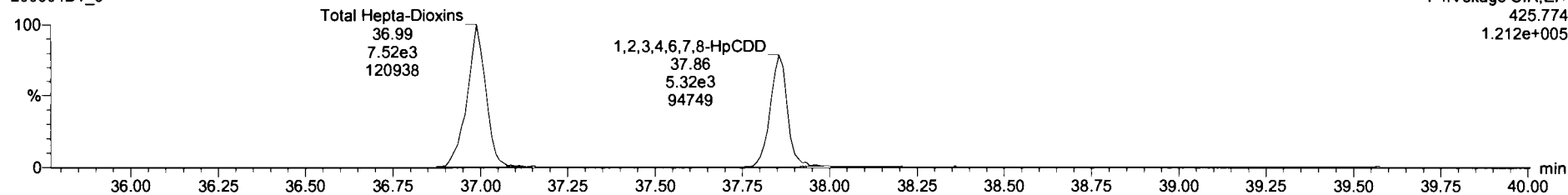
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1,2,3,4,6,7,8-HpCDD

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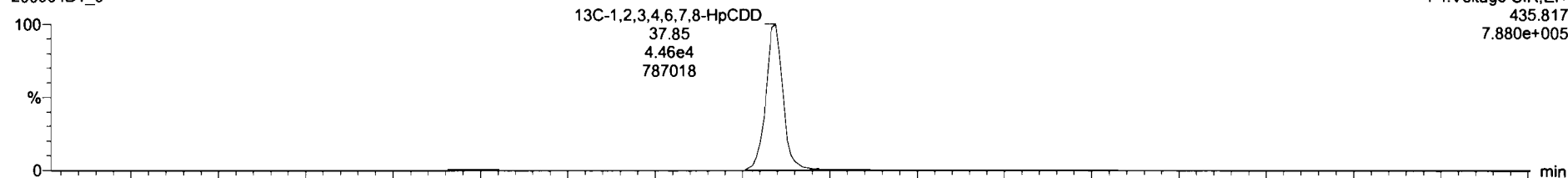


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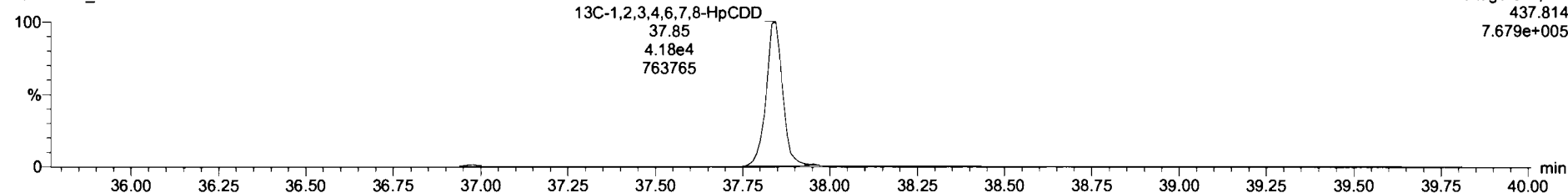


13C-1,2,3,4,6,7,8-HpCDD

200604D1\_6



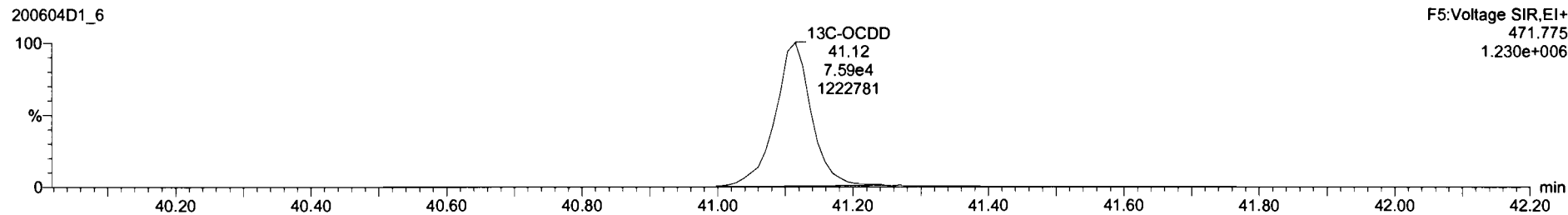
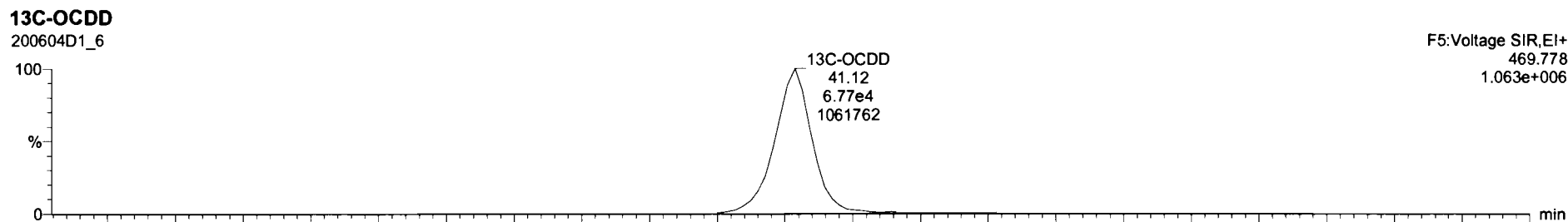
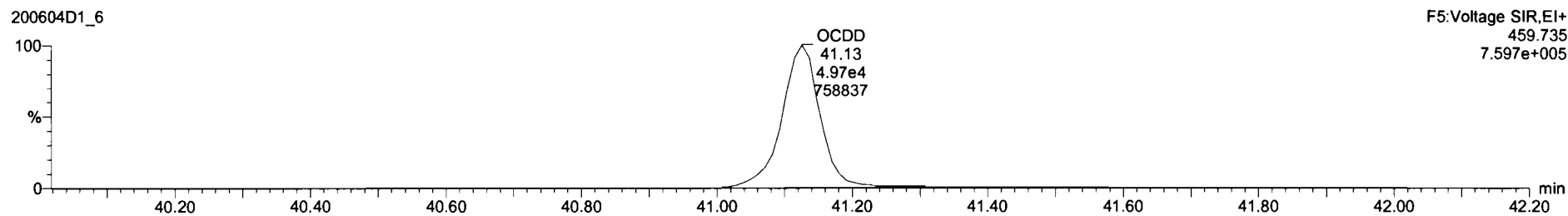
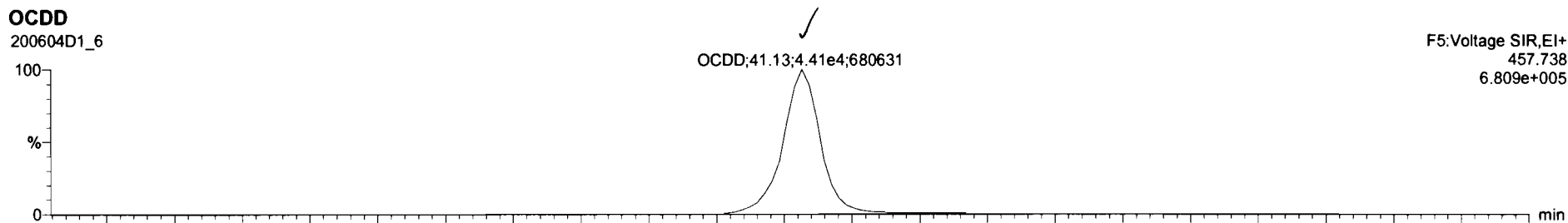
200604D1\_6



Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_6.qld

Last Altered: Friday, June 05, 2020 09:32:39 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:43:37 Pacific Daylight Time

Name: 200604D1\_6, Date: 04-Jun-2020, Time: 15:46:07, ID: 2000945-02 PDI-146SC-A-01-02-200426 12.02, Description: PDI-146SC-A-01-02-200426

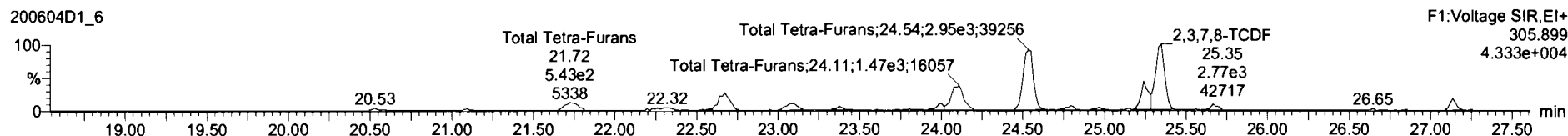
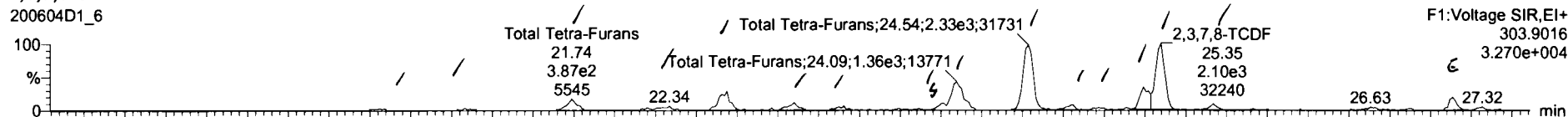


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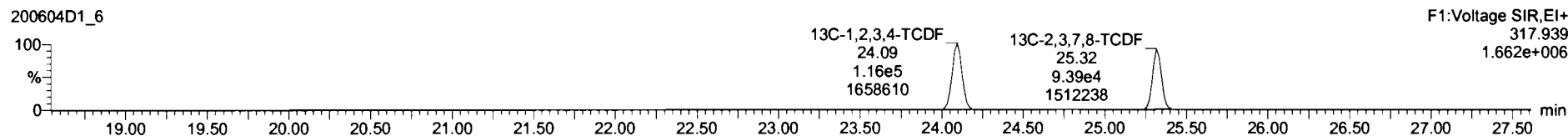
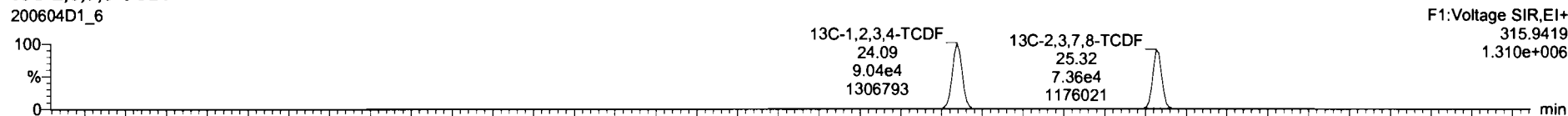
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Name: 200604D1\_6, Date: 04-Jun-2020, Time: 15:46:07, ID: 2000945-02 PDI-146SC-A-01-02-200426 12.02, Description: PDI-146SC-A-01-02-200426

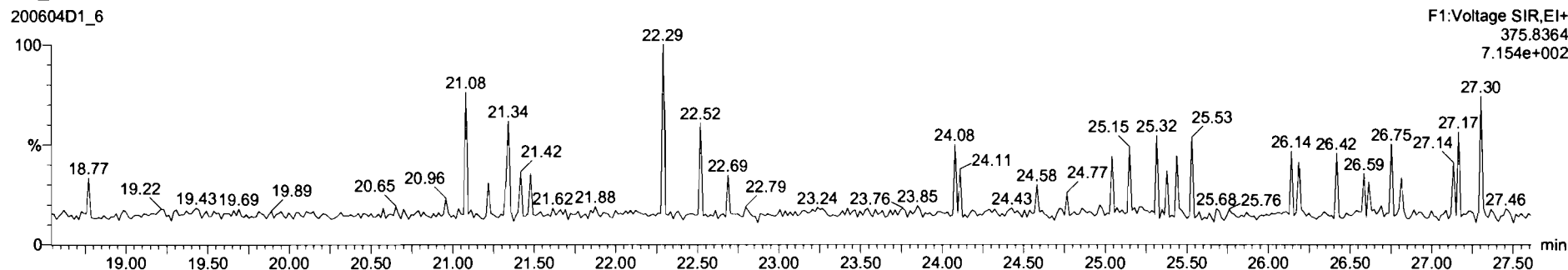
**2,3,7,8-TCDF**



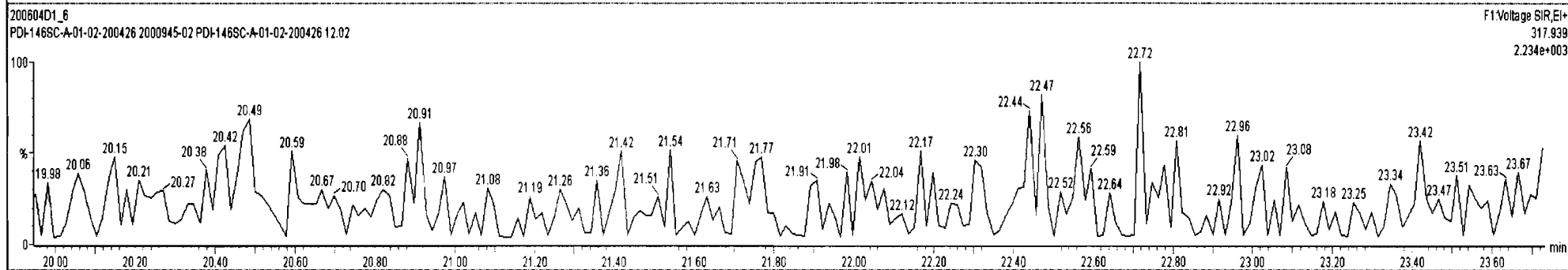
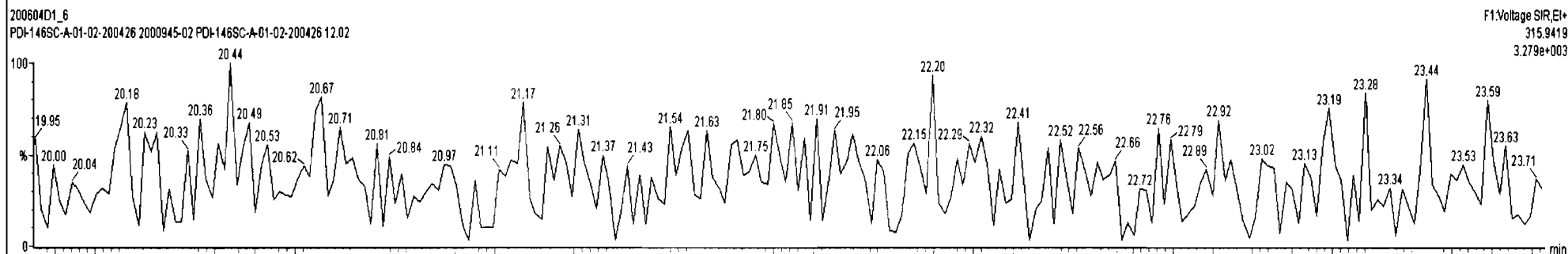
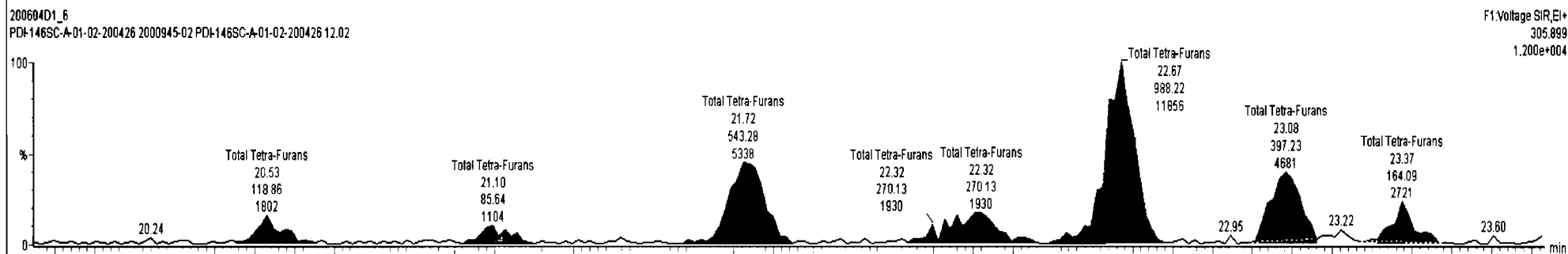
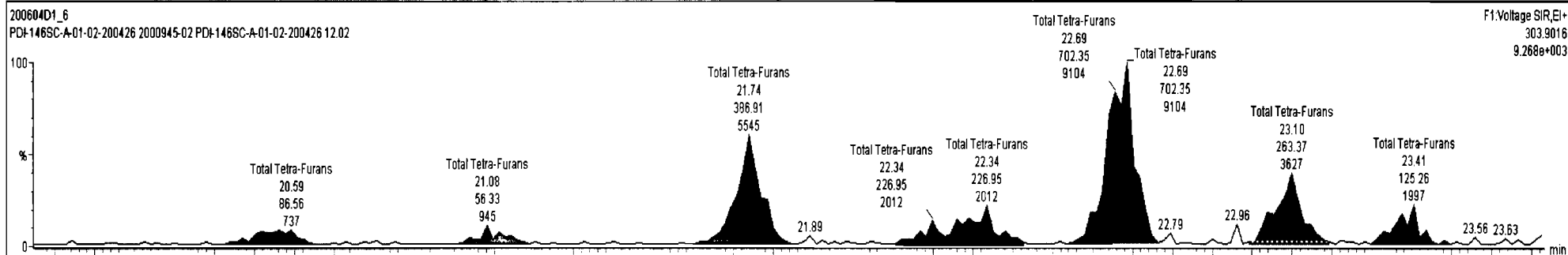
**13C-2,3,7,8-TCDF**

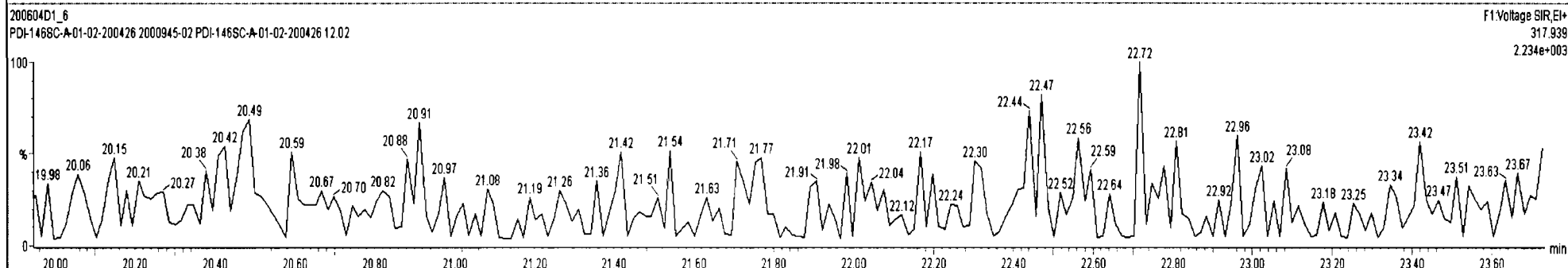
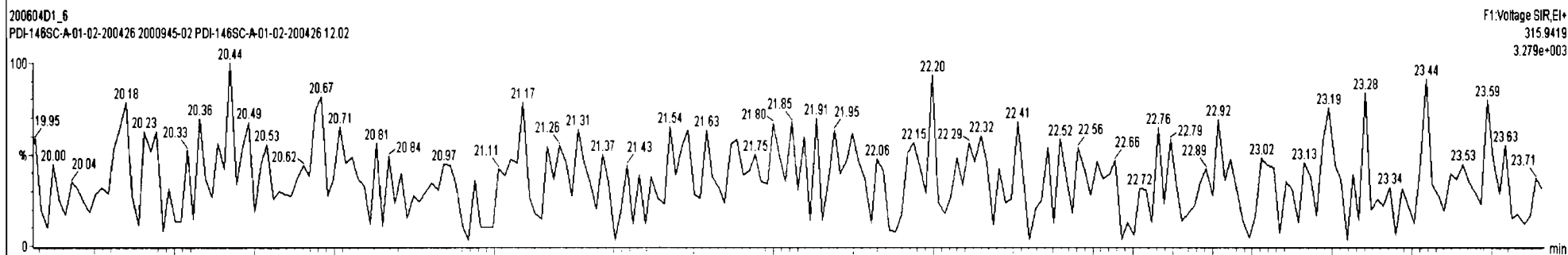
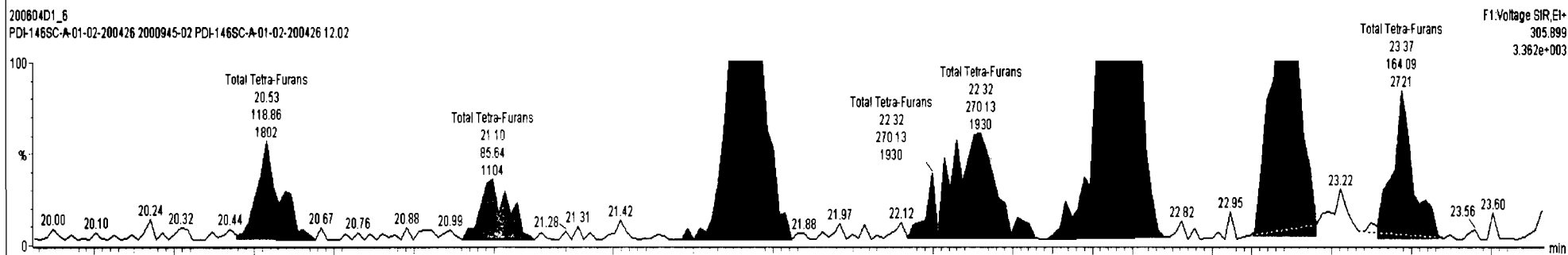
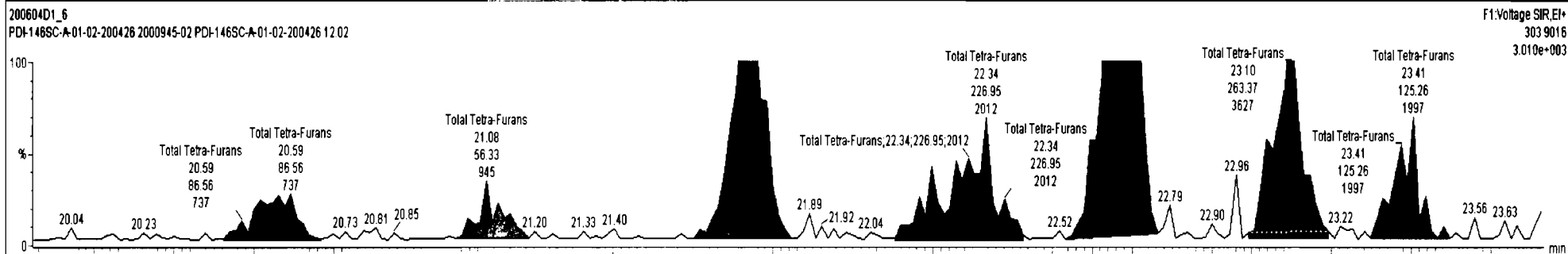


**DPE1**

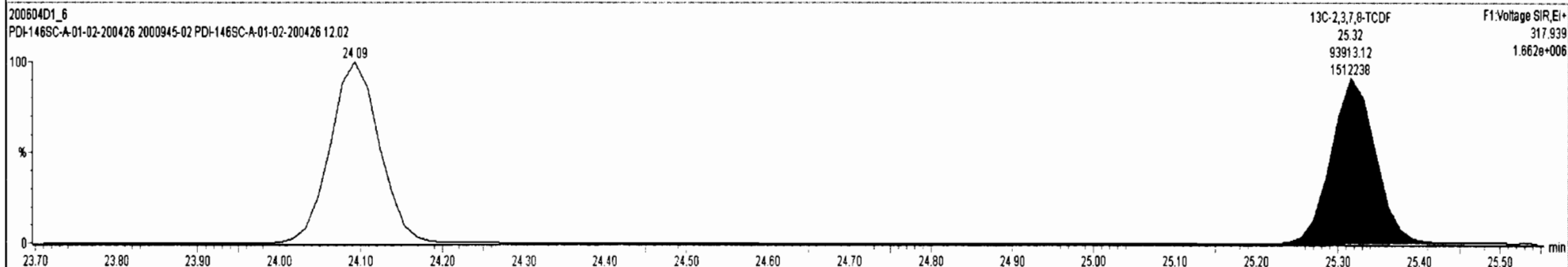
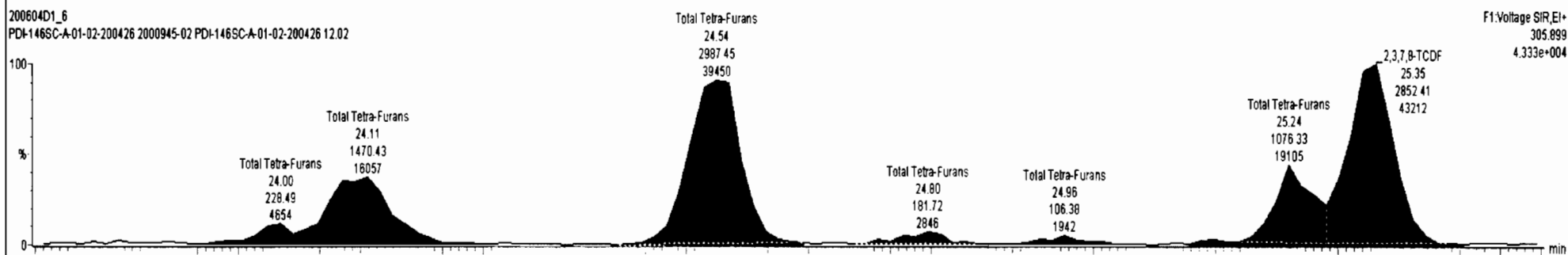
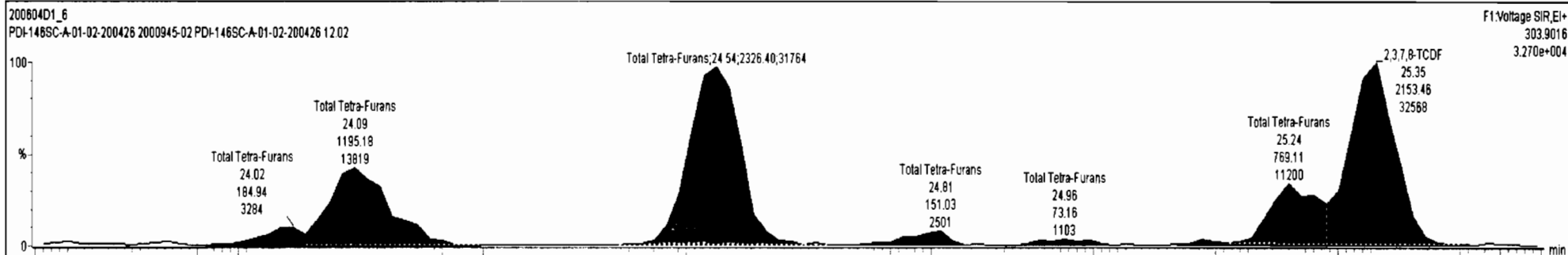


200604D1\_6 - 2000945-02 PDI-146SC-A-01-02-200426 12.02 PDI-146SC-A-01-02-200426

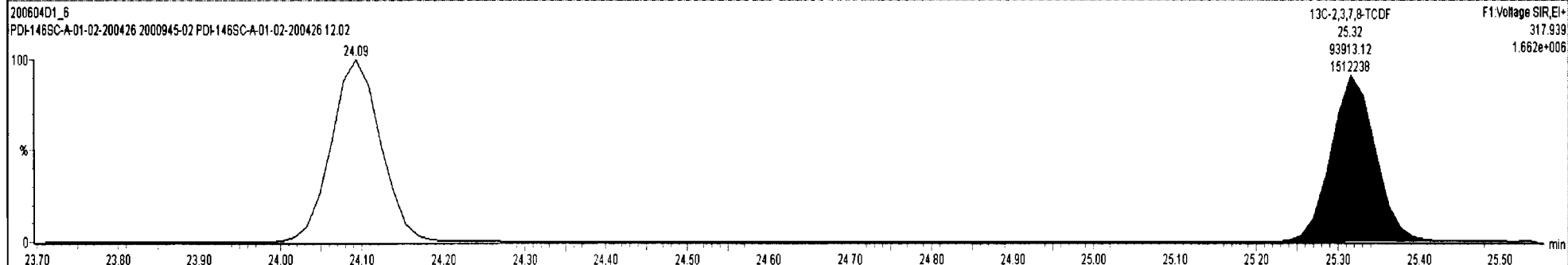
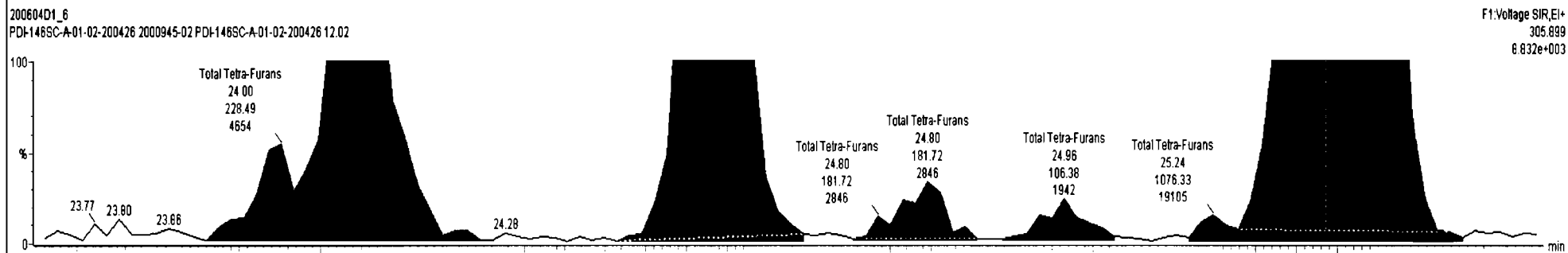
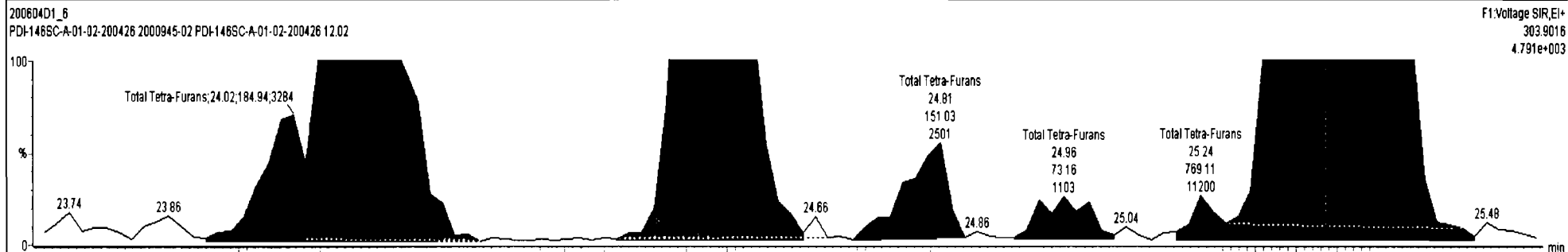




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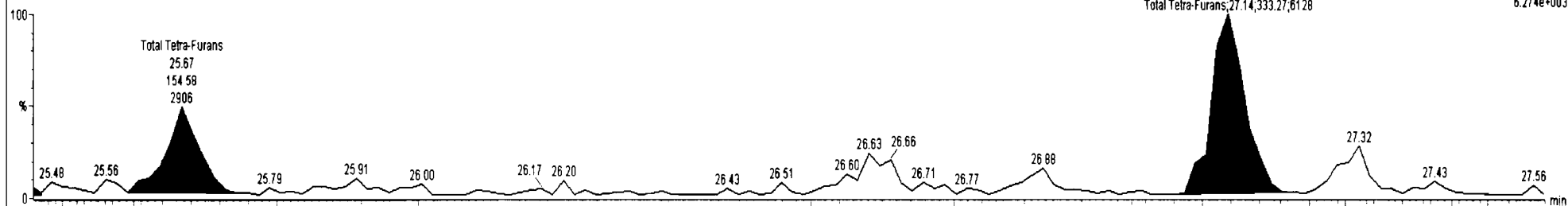


20060401\_6 2000945-02 PDI-146SC-A-01-02-200426 12.02 PDI-146SC-A-01-02-200426 12.02



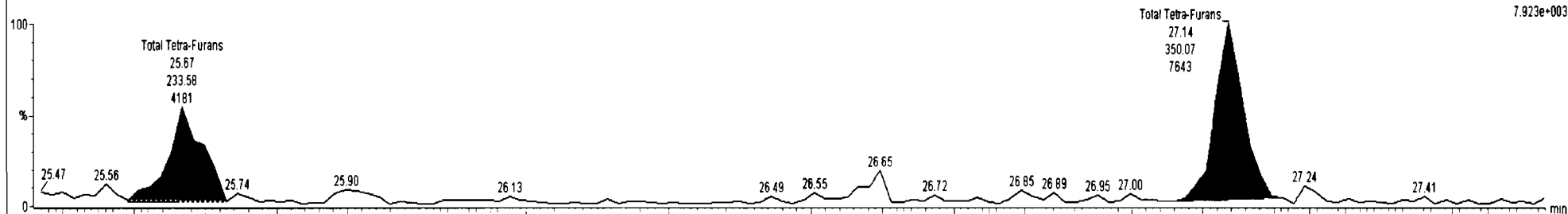
200604D1\_6  
PDI-146SC-A-01-02-200426 2000945-02 PDI-146SC-A-01-02-200426 12.02

F1:Voltage SIR,EI+  
303.9016  
6.274e+003



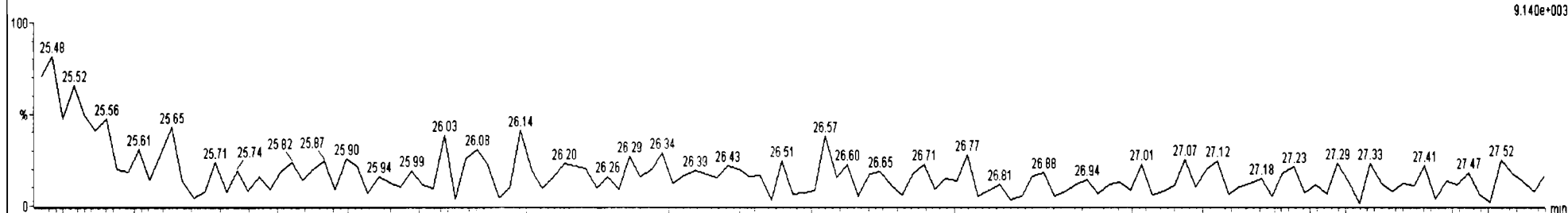
200604D1\_6  
PDI-146SC-A-01-02-200426 2000945-02 PDI-146SC-A-01-02-200426 12.02

F1:Voltage SIR,EI+  
305.899  
7.923e+003



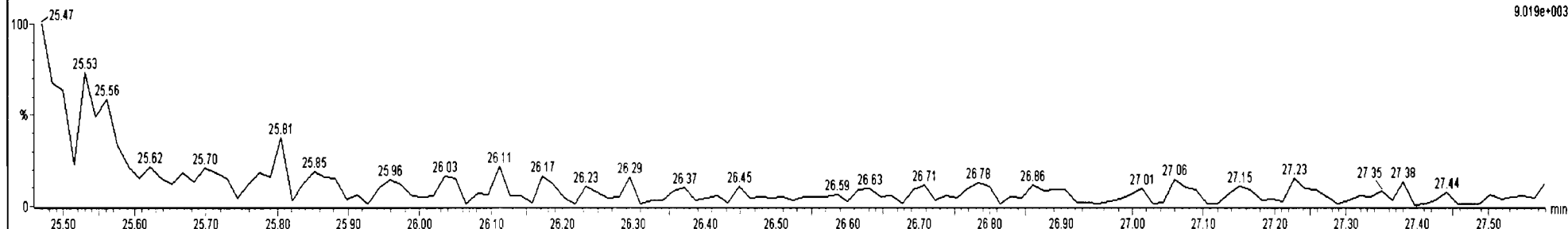
200604D1\_6  
PDI-146SC-A-01-02-200426 2000945-02 PDI-146SC-A-01-02-200426 12.02

F1:Voltage SIR,EI+  
315.9419  
9.140e+003



200604D1\_6  
PDI-146SC-A-01-02-200426 2000945-02 PDI-146SC-A-01-02-200426 12.02

F1:Voltage SIR,EI+  
317.939  
9.019e+003





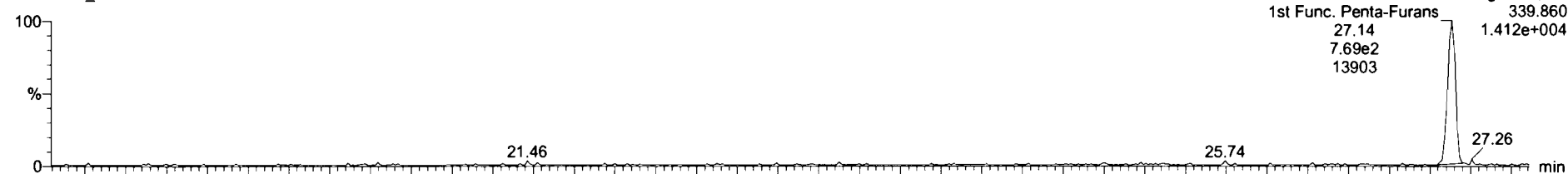
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Last Altered: Friday, June 05, 2020 09:32:39 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:43:37 Pacific Daylight Time

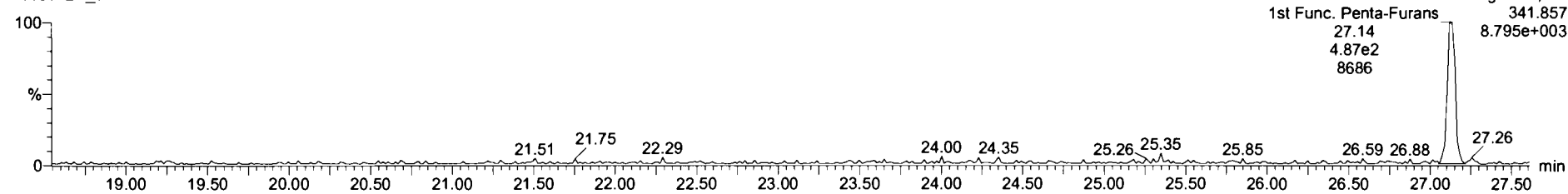
Name: 200604D1\_6, Date: 04-Jun-2020, Time: 15:46:07, ID: 2000945-02 PDI-146SC-A-01-02-200426 12.02, Description: PDI-146SC-A-01-02-200426

1st Func. Penta-Furans

200604D1\_6

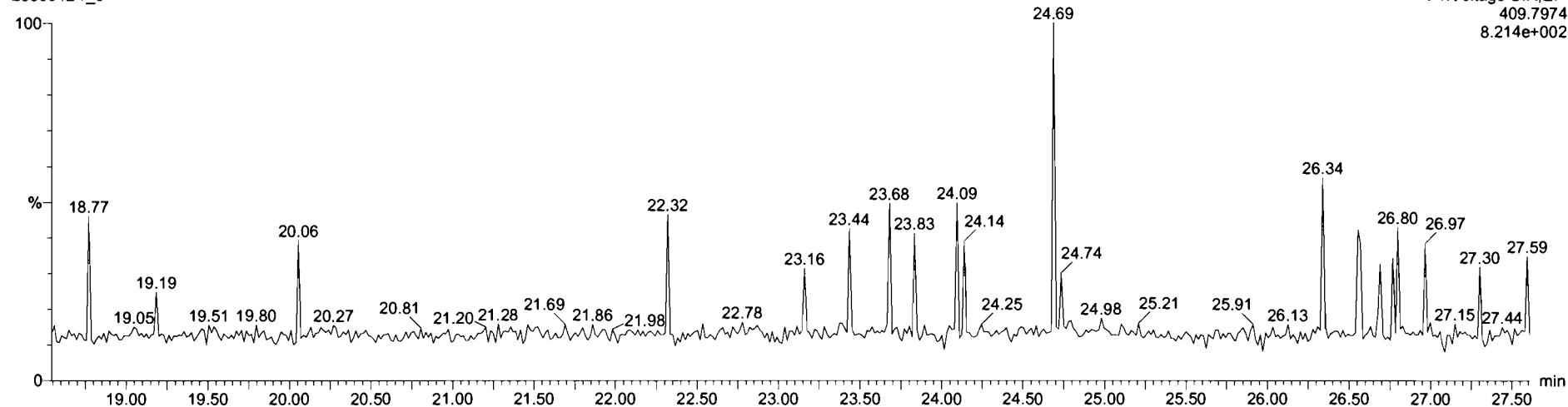


200604D1\_6



DPE6

200604D1\_6

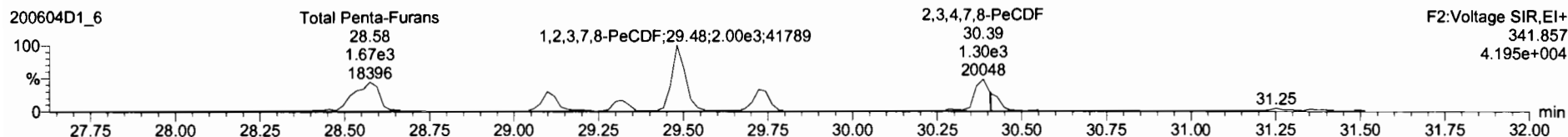
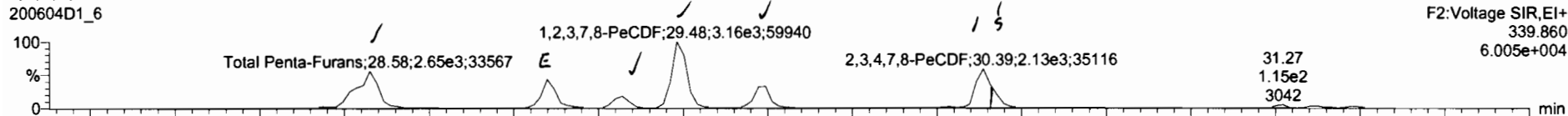


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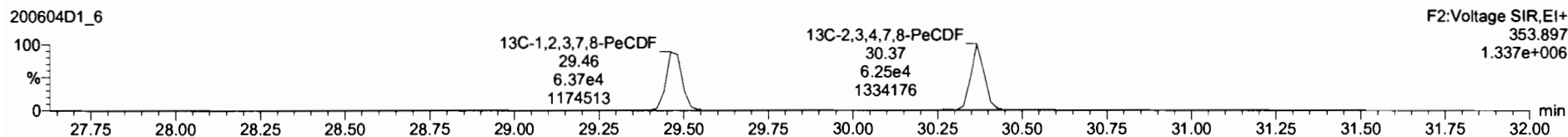
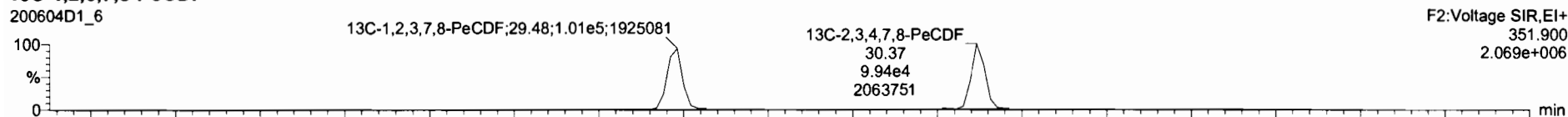
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Printed: Friday, June 05, 2020 09:43:37 Pacific Daylight Time

Name: 200604D1\_6, Date: 04-Jun-2020, Time: 15:46:07, ID: 2000945-02 PDI-146SC-A-01-02-200426 12.02, Description: PDI-146SC-A-01-02-200426

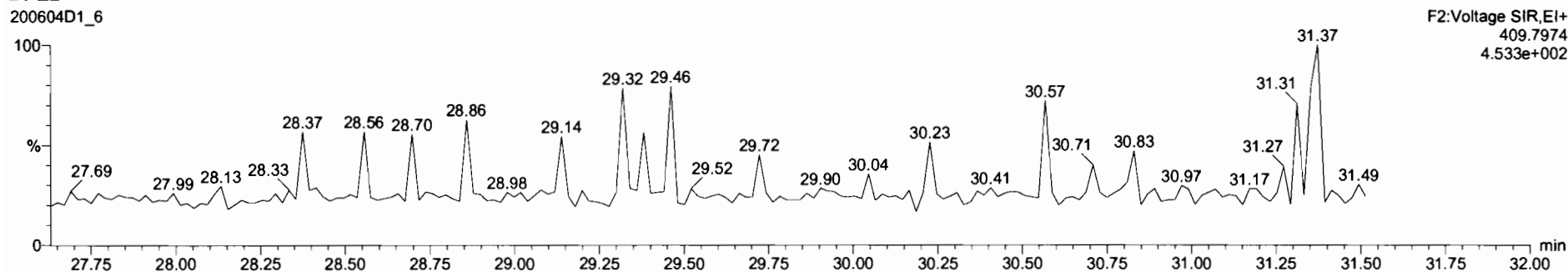
**1,2,3,7,8-PeCDF**

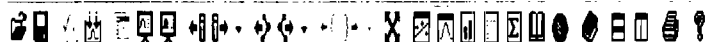


**13C-1,2,3,7,8-PeCDF**

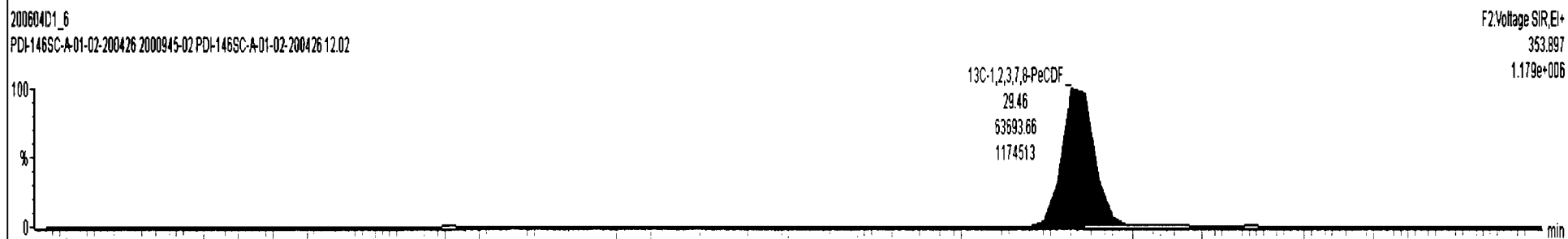
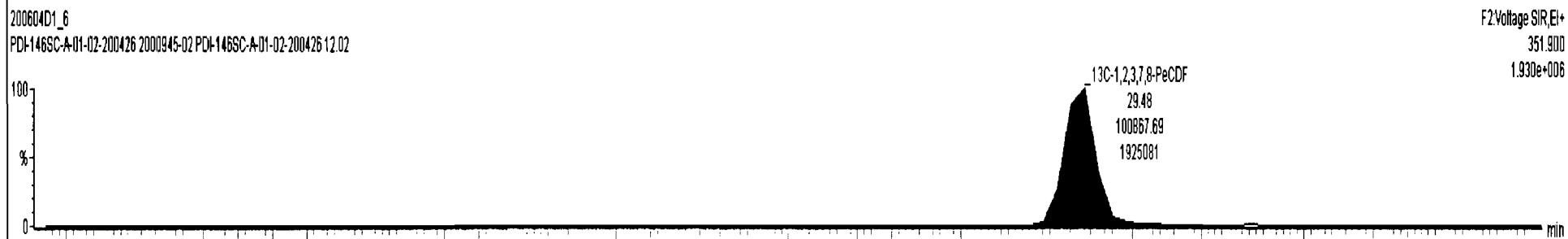
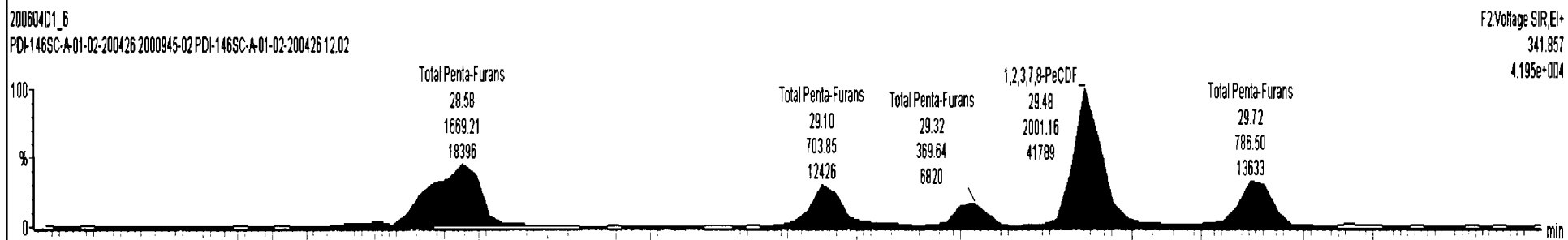
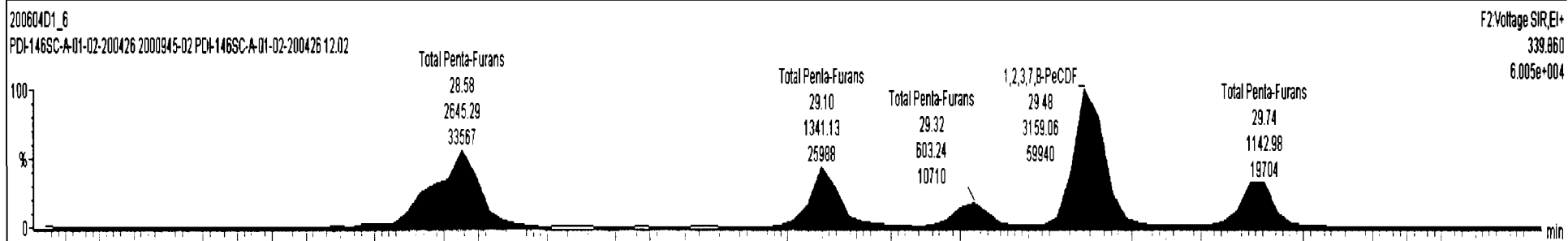


**DPE2**



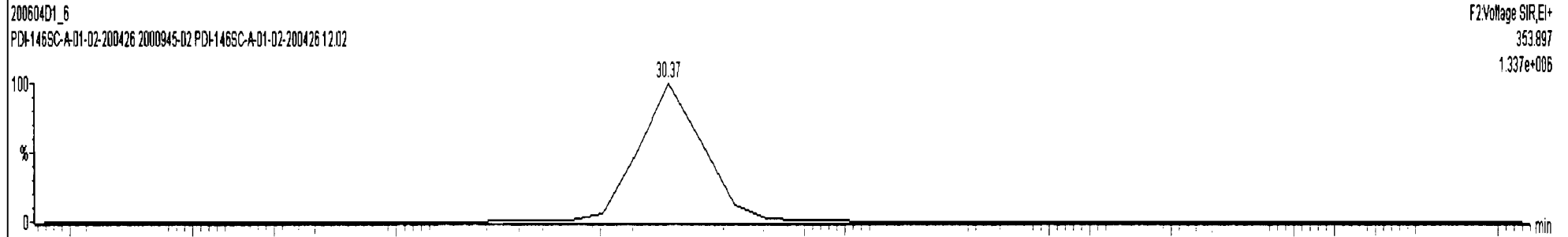
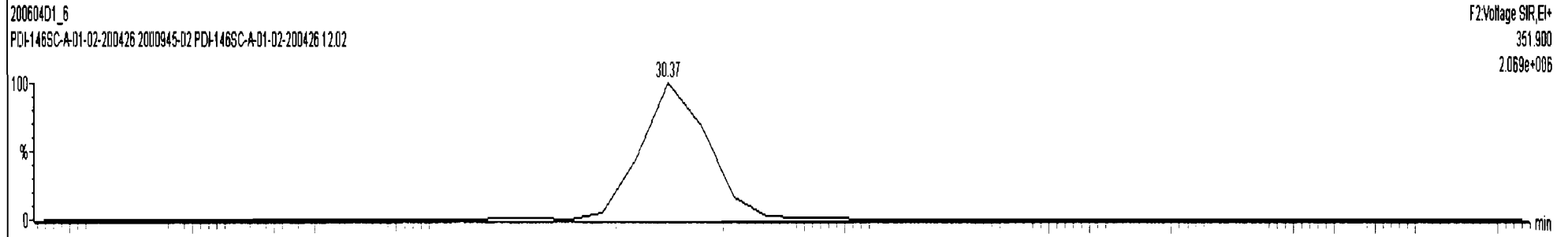
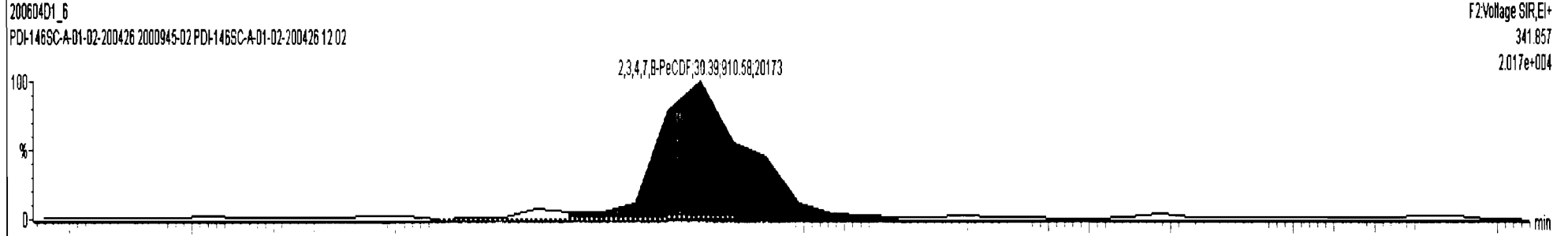
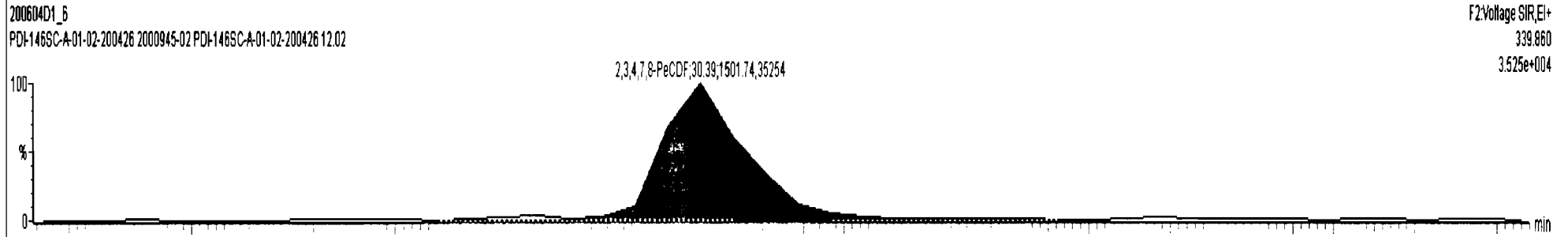


200604D1\_6 2000945-02 PDI-146SC-A-01-02-200426 2000945-02 PDI-146SC-A-01-02-200426 2000945-02 PDI-146SC-A-01-02-200426





200604D1\_6\_2000945-02-PDI-146SC-A-01-02-200426 12.02 - F2:Voltage SIR,EI+

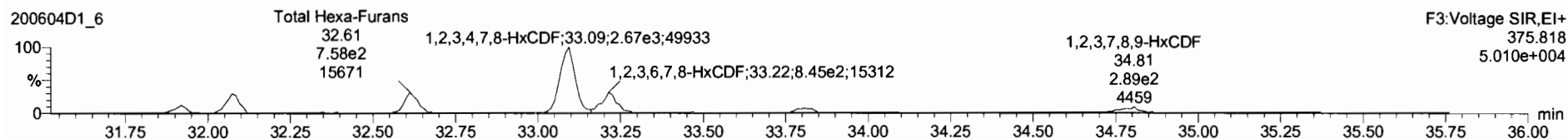
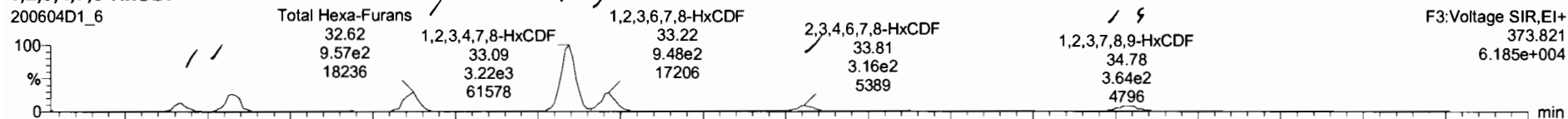


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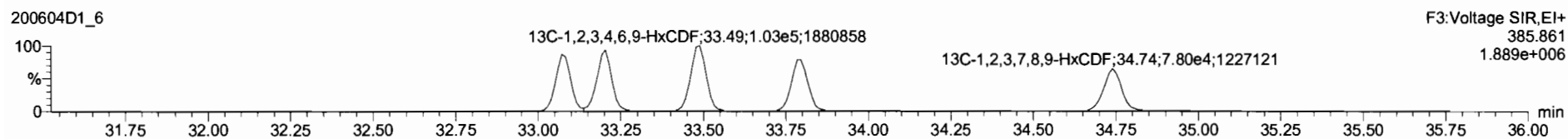
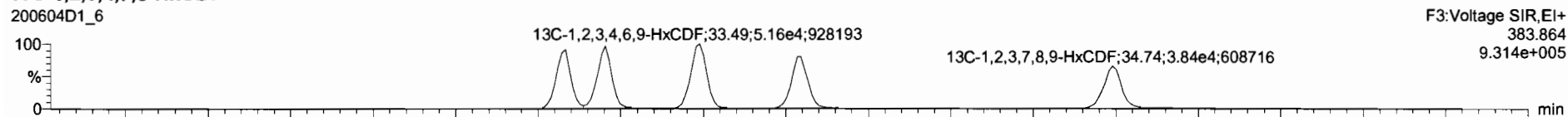
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Name: 200604D1\_6, Date: 04-Jun-2020, Time: 15:46:07, ID: 2000945-02 PDI-146SC-A-01-02-200426 12.02, Description: PDI-146SC-A-01-02-200426

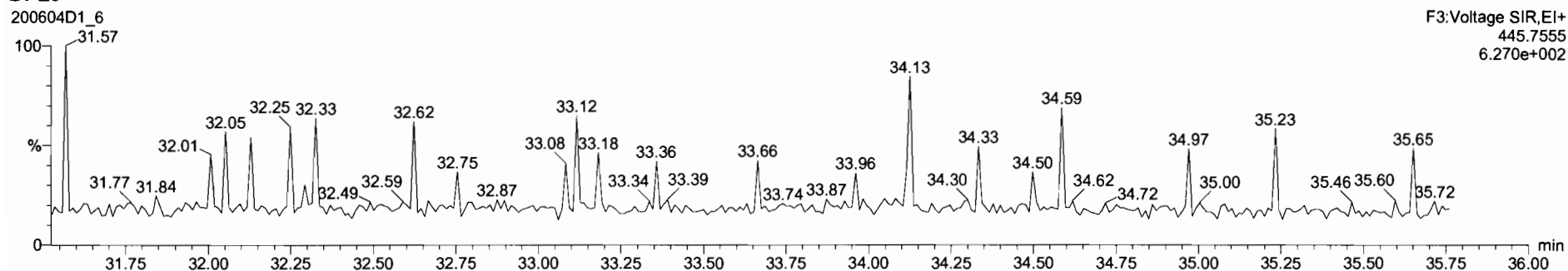
1,2,3,4,7,8-HxCDF



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

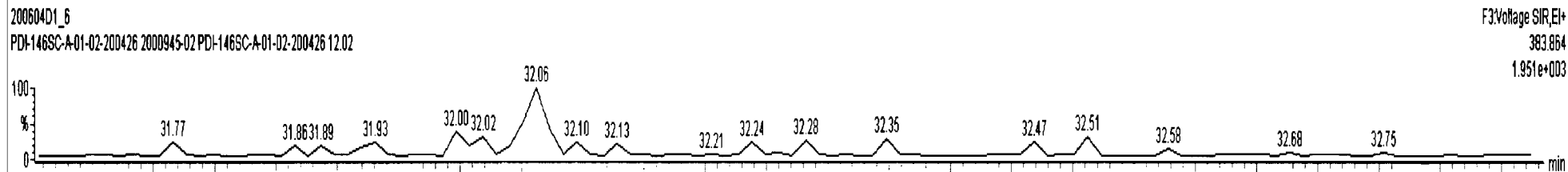
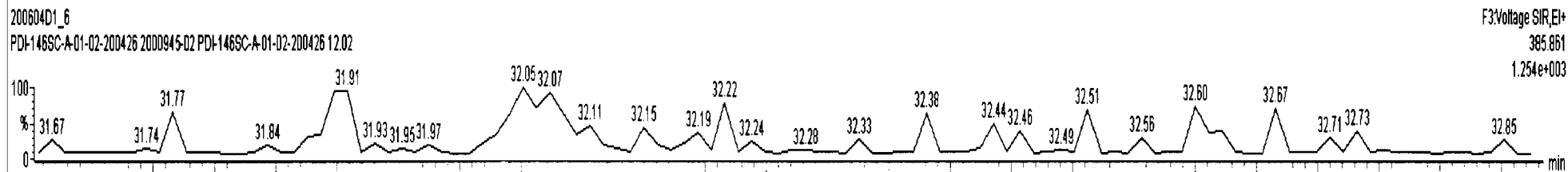
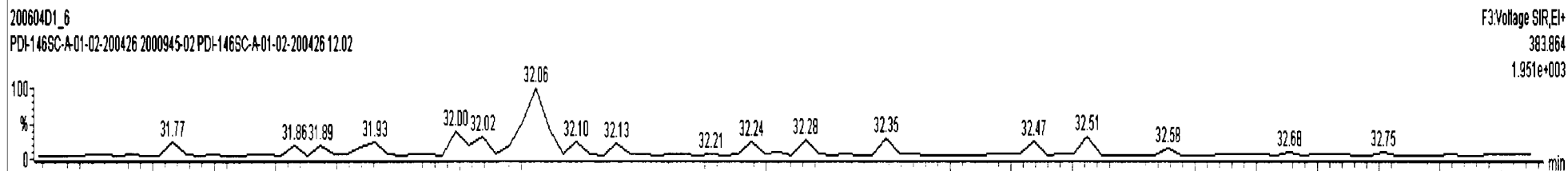
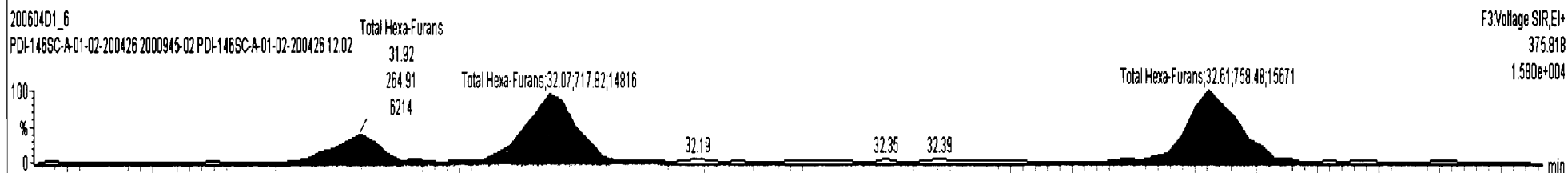
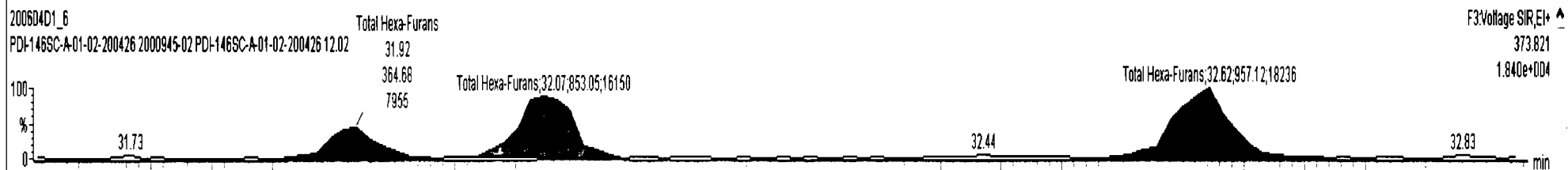


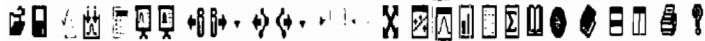
DPE3



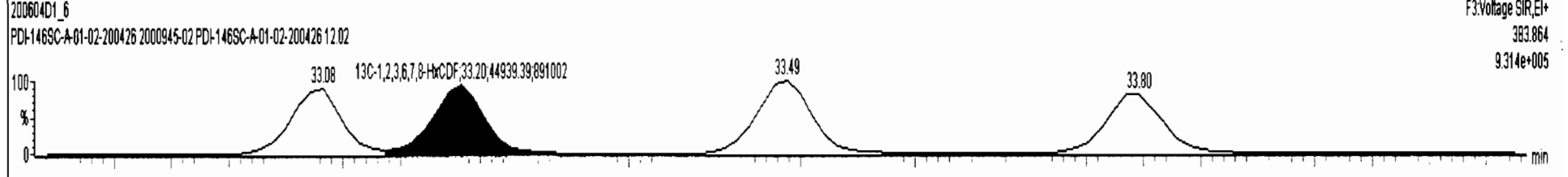
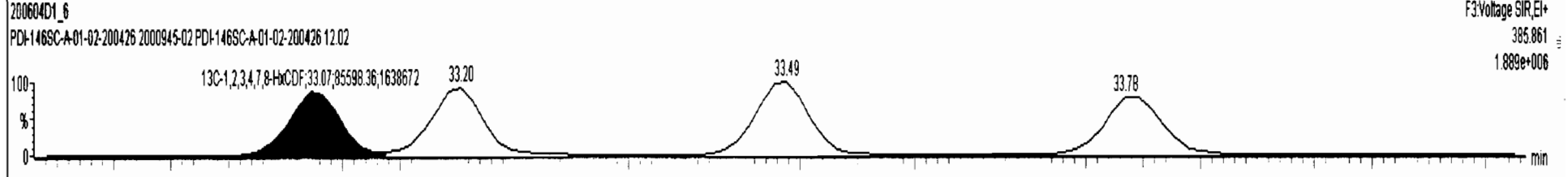
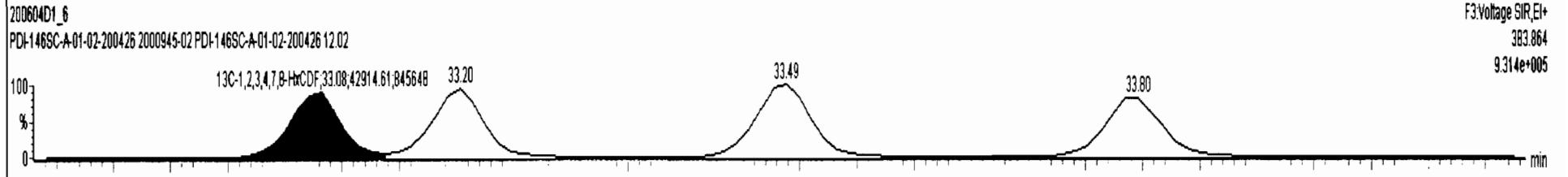
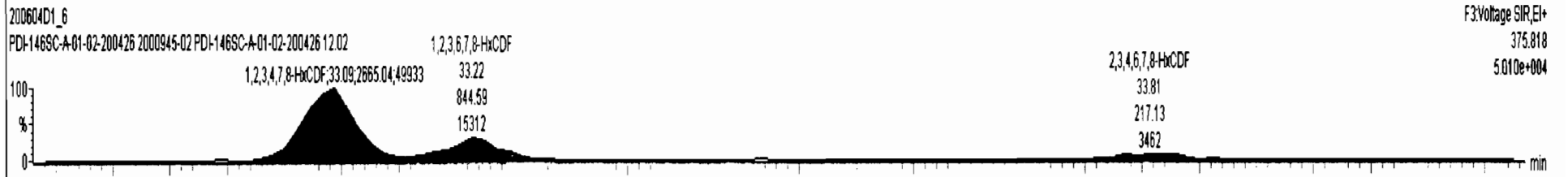


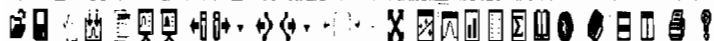
200604D1\_6 - 2000945-02-PDI-146SC-A-01-02-200426 12.02 - PDI-146SC-A-01-02-200426





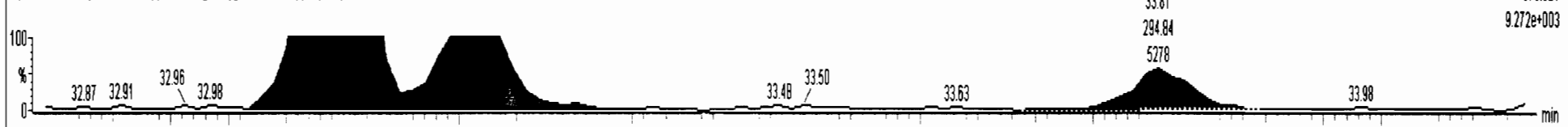
200604D1\_6\_2000945-02.PDI-146SC-A-01-02-200426 12.02\_PDI-146SC-A-01-02-200426





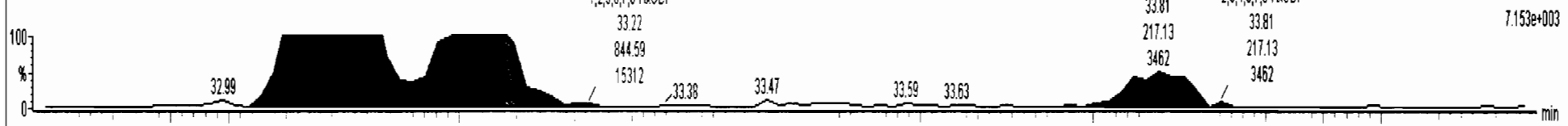
200604D1\_6 - 200945-02 PDI-1465C-A-01-02-200426 12.02 PDI-1465C-A-01-02-200426

200604D1\_6  
PDI-1465C-A-01-02-200426 2000945-02 PDI-1465C-A-01-02-200426 12.02



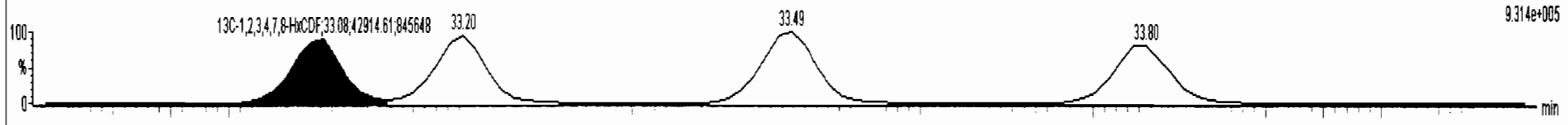
2,3,4,6,7,8-HxCDF  
33.81  
294.84  
5278  
F3:Voltage SIR, EI+  
373.821  
9.272e+003

200604D1\_6  
PDI-1465C-A-01-02-200426 2000945-02 PDI-1465C-A-01-02-200426 12.02



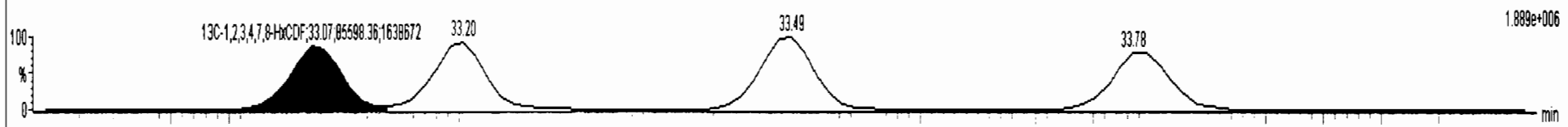
1,2,3,6,7,8-HxCDF  
33.22  
844.59  
15312  
2,3,4,6,7,8-HxCDF  
33.81  
217.13  
3462  
2,3,4,6,7,8-HxCDF  
33.81  
217.13  
3462  
F3:Voltage SIR, EI+  
375.818  
7.153e+003

200604D1\_6  
PDI-1465C-A-01-02-200426 2000945-02 PDI-1465C-A-01-02-200426 12.02



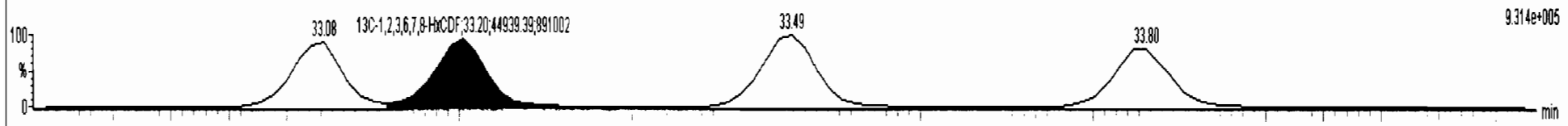
13C-1,2,3,4,7,8-HxCDF;33.08;42914.61;845648  
33.20  
33.49  
33.80  
F3:Voltage SIR, EI+  
383.864  
9.314e+005

200604D1\_6  
PDI-1465C-A-01-02-200426 2000945-02 PDI-1465C-A-01-02-200426 12.02



13C-1,2,3,4,7,8-HxCDF;33.07;85598.36;1638672  
33.20  
33.49  
33.78  
F3:Voltage SIR, EI+  
385.861  
1.889e+006

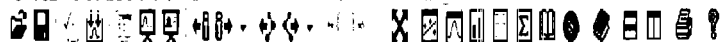
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PDI-1465C-A-01-02-200426 2000945-02 PDI-1465C-A-01-02-200426 12.02



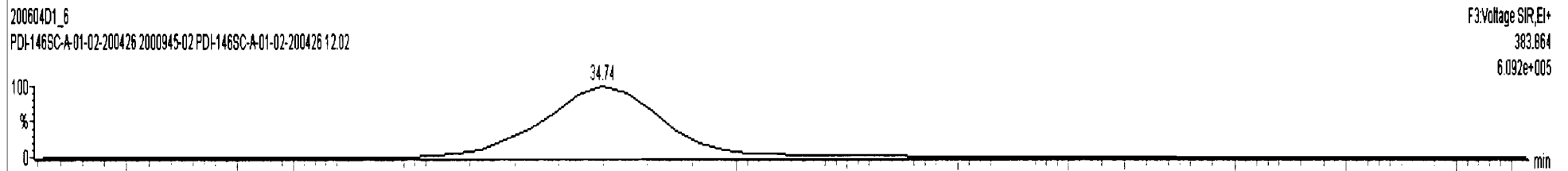
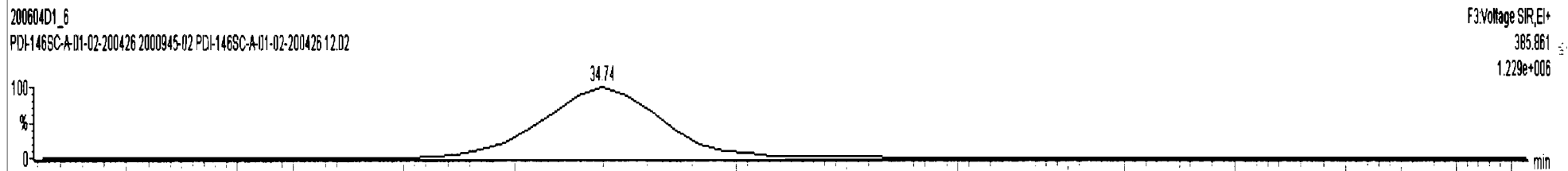
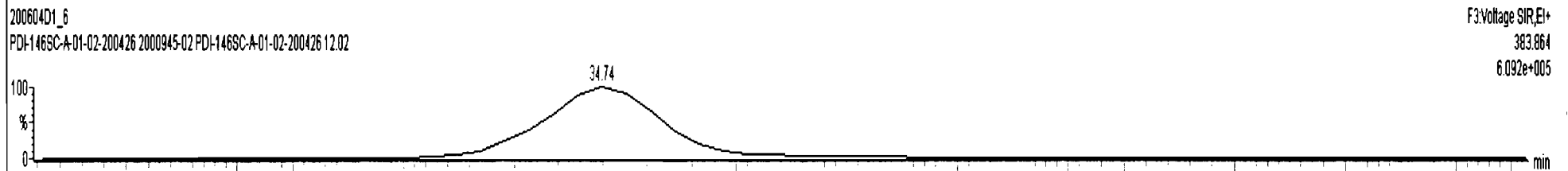
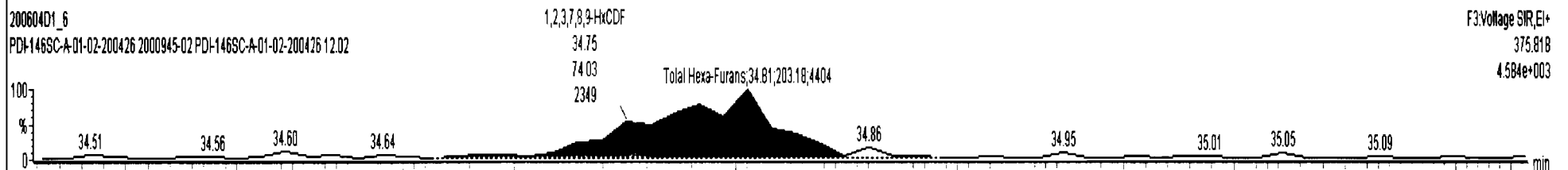
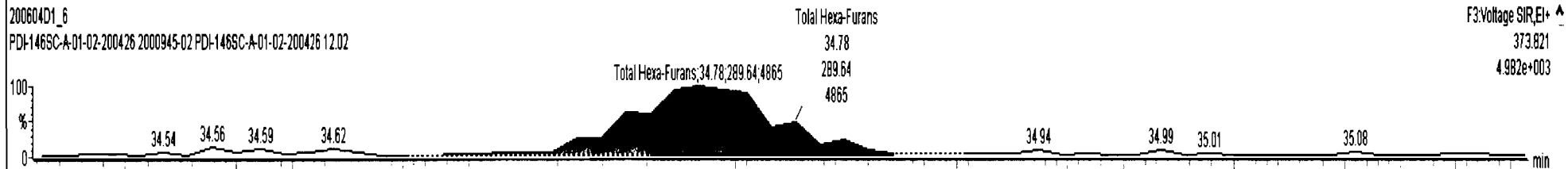
33.08  
13C-1,2,3,6,7,8-HxCDF;33.20;44939.39;891002  
33.49  
33.80  
F3:Voltage SIR, EI+  
383.864  
9.314e+005

200604D1\_6  
PDI-1465C-A-01-02-200426 2000945-02 PDI-1465C-A-01-02-200426 12.02





200604D1\_6 - 2000945-02-PDI-146SC-A-01-02-200426 12.02 - F3:Voltage SIR,EI+

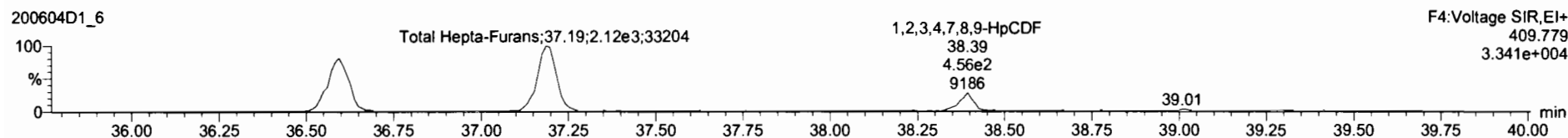


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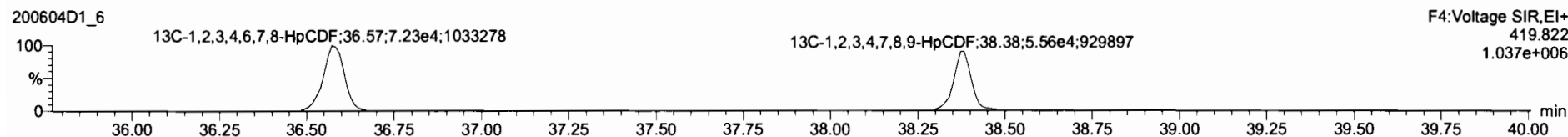
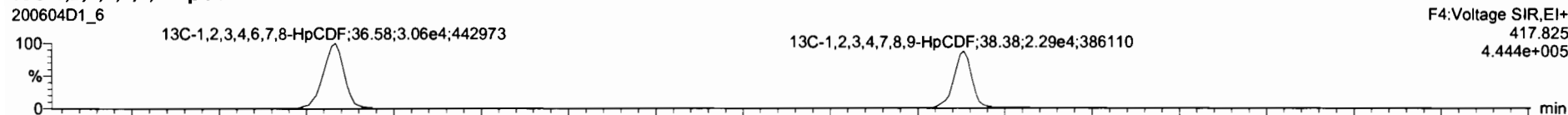
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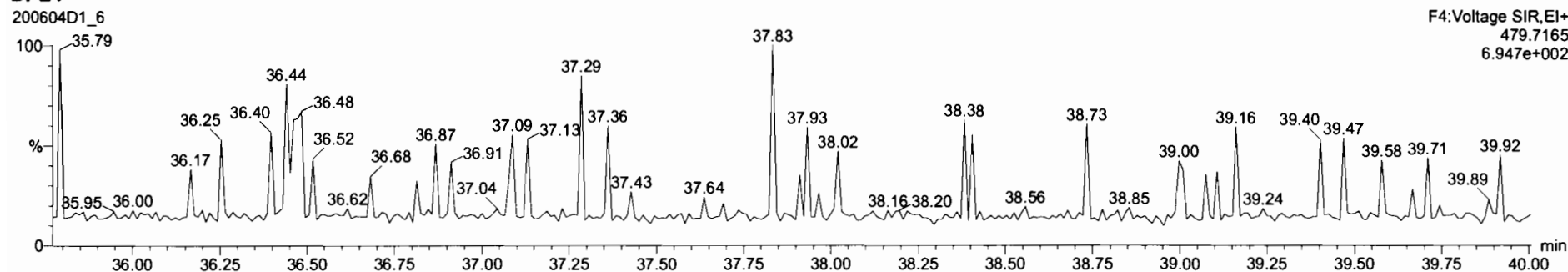
**1,2,3,4,6,7,8-HpCDF**



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



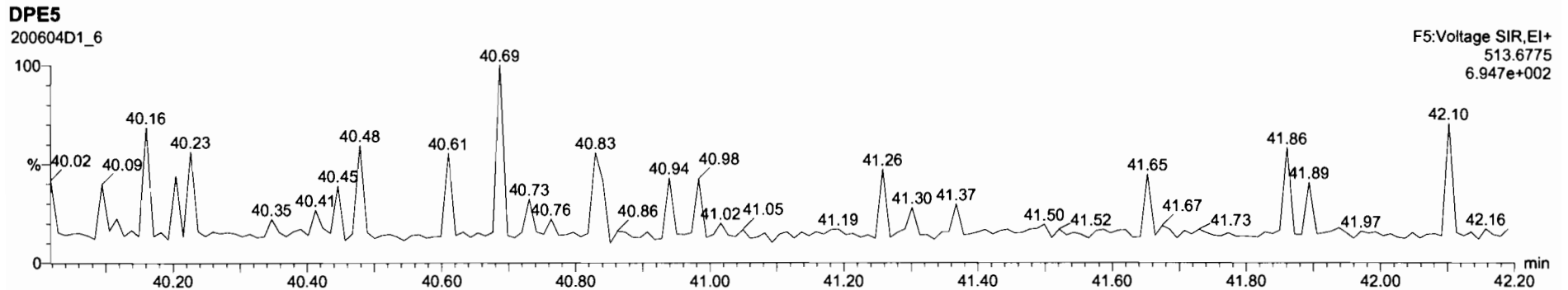
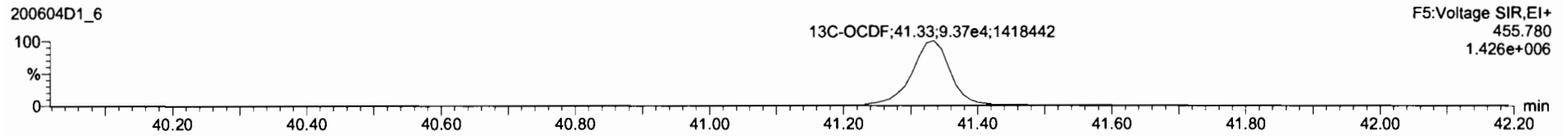
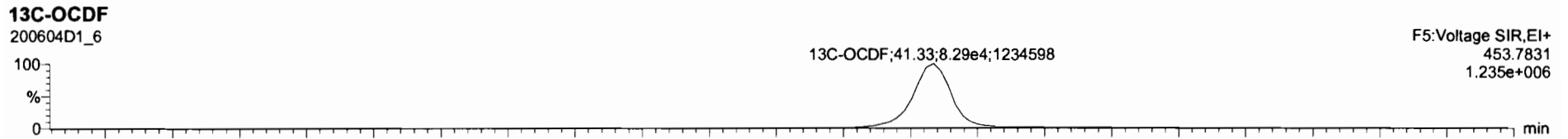
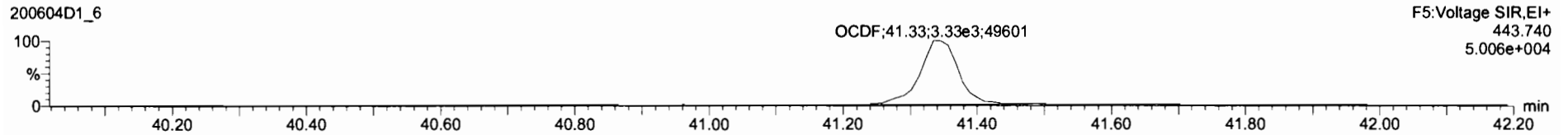
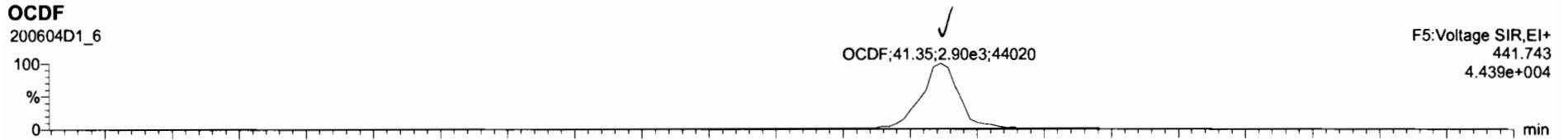
**DPE4**



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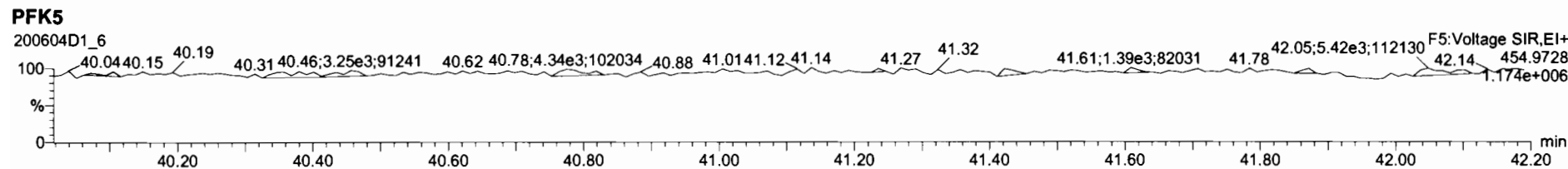
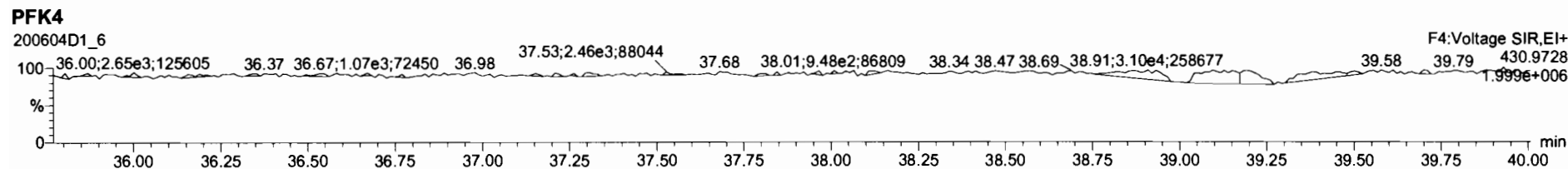
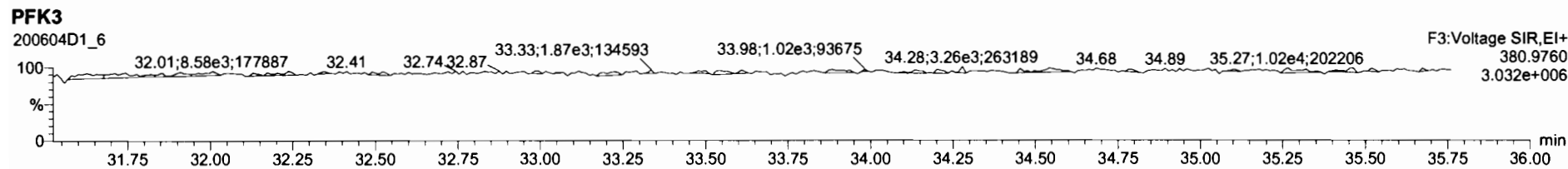
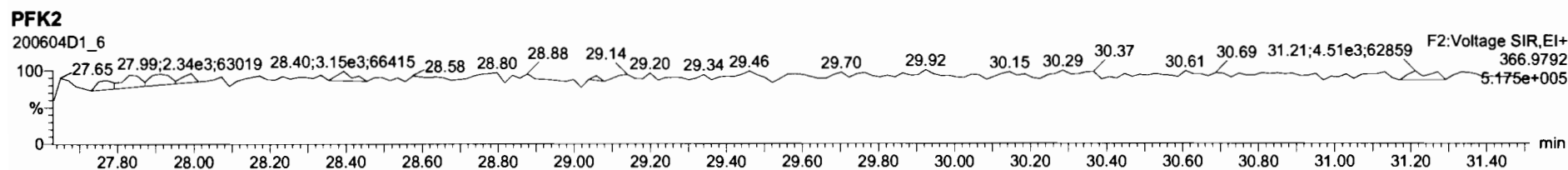
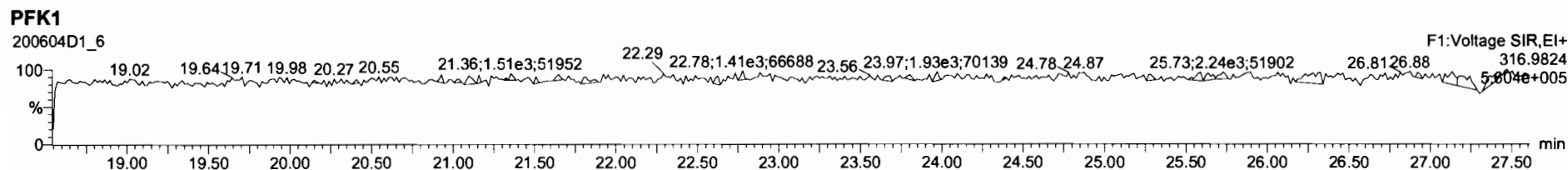
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Name: 200604D1\_6, Date: 04-Jun-2020, Time: 15:46:07, ID: 2000945-02 PDI-146SC-A-01-02-200426 12.02, Description: PDI-146SC-A-01-02-200426



Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_7B.qld

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Printed: Friday, June 05, 2020 12:57:46 Pacific Daylight Time

*DB 6/5/20 C106/05/2020*

Method: Untitled 27 Apr 2020 14:17:24

Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200604D1\_7, Date: 04-Jun-2020, Time: 16:31:15, ID: B0D0306-DUP1 Duplicate 11.39, Description: Duplicate

#	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	2.59e2	0.68	NO	0.987	10.026	26.142	26.14	1.001	1.001	0.37518		0.164	0.375
2	2 1,2,3,7,8-PeCDD	1.44e2	0.46	YES	0.982	10.026	30.669	30.67	1.001	1.001	0.24076		0.238	0.204
3	3 1,2,3,4,7,8-HxCDD			NO	1.17	10.026	33.971		1.000				0.234	
4	4 1,2,3,6,7,8-HxCDD	4.67e2	1.08	NO	1.04	10.026	34.070	34.08	1.000	1.000	0.81479		0.230	0.815
5	5 1,2,3,7,8,9-HxCDD	2.27e2	1.40	NO	1.00	10.026	34.401	34.41	1.001	1.001	0.41750		0.246	0.417
6	6 1,2,3,4,6,7,8-HpCDD	1.12e4	1.06	NO	0.992	10.026	37.845	37.86	1.000	1.001	24.141		0.371	24.1
7	7 OCDD	1.17e5	0.87	NO	1.04	10.026	41.104	41.12	1.000	1.000	293.83		0.529	294
8	8 2,3,7,8-TCDF	4.35e3	0.72	NO	0.882	10.026	25.341	25.35	1.001	1.001	5.8735	<i>OK</i>	0.247	5.87
9	9 1,2,3,7,8-PeCDF	4.33e3	1.48	NO	1.05	10.026	29.502	29.50	1.001	1.001	4.8145		0.133	4.81
10	10 2,3,4,7,8-PeCDF	1.83e3	1.45	NO	1.06	10.026	30.385	30.39	1.001	1.001	2.0523		0.129	2.05
11	11 1,2,3,4,7,8-HxCDF	6.76e3	1.19	NO	1.08	10.026	33.072	33.09	1.000	1.001	9.1283		0.135	9.13
12	12 1,2,3,6,7,8-HxCDF	1.89e3	1.24	NO	1.04	10.026	33.214	33.22	1.000	1.000	2.5764		0.137	2.58
13	13 2,3,4,6,7,8-HxCDF	6.68e2	1.40	NO	1.11	10.026	33.830	33.81	1.001	1.000	0.88036		0.143	0.880
14	14 1,2,3,7,8,9-HxCDF	1.40e2	1.40	NO	1.06	10.026	34.740	34.76	1.000	1.001	0.21733		0.174	0.217
15	15 1,2,3,4,6,7,8-HpCDF	4.80e3	1.02	NO	1.13	10.026	36.620	36.59	1.001	1.000	7.6181		0.213	7.62
16	16 1,2,3,4,7,8,9-HpCDF	1.36e3	1.07	NO	1.33	10.026	38.372	38.39	1.000	1.001	2.3907		0.212	2.39
17	17 OCDF	8.17e3	0.90	NO	0.933	10.026	41.324	41.33	1.000	1.000	18.001		0.231	18.0
18	18 13C-2,3,7,8-TCDD	1.40e5	0.77	NO	1.21	10.026	26.210	26.11	1.026	1.022	155.23	77.8	0.373	
19	19 13C-1,2,3,7,8-PeCDD	1.18e5	0.64	NO	0.996	10.026	30.706	30.65	1.202	1.200	158.86	79.6	0.427	
20	20 13C-1,2,3,4,7,8-HxCDD	9.34e4	1.27	NO	0.679	10.026	33.958	33.96	1.014	1.014	173.54	87.0	0.500	
21	21 13C-1,2,3,6,7,8-HxCDD	1.10e5	1.22	NO	0.850	10.026	34.068	34.07	1.017	1.017	163.75	82.1	0.399	
22	22 13C-1,2,3,7,8,9-HxCDD	1.08e5	1.31	NO	0.798	10.026	34.340	34.37	1.025	1.026	170.61	85.5	0.425	
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.31e4	1.01	NO	0.697	10.026	37.809	37.83	1.129	1.130	168.31	84.4	0.547	
24	24 13C-OCDD	1.53e5	0.88	NO	0.579	10.026	40.836	41.10	1.219	1.227	332.71	83.4	0.592	
25	25 13C-2,3,7,8-TCDF	1.67e5	0.78	NO	1.13	10.026	25.291	25.32	0.990	0.991	140.54	70.5	0.447	
26	26 13C-1,2,3,7,8-PeCDF	1.72e5	1.59	NO	0.996	10.026	29.524	29.48	1.156	1.154	163.09	81.8	0.561	
27	27 13C-2,3,4,7,8-PeCDF	1.68e5	1.60	NO	0.969	10.026	30.425	30.37	1.191	1.189	164.19	82.3	0.576	
28	28 13C-1,2,3,4,7,8-HxCDF	1.36e5	0.51	NO	1.06	10.026	33.087	33.07	0.988	0.988	162.52	81.5	0.530	
29	29 13C-1,2,3,6,7,8-HxCDF	1.40e5	0.50	NO	1.18	10.026	33.221	33.20	0.992	0.991	150.66	75.5	0.477	
30	30 13C-2,3,4,6,7,8-HxCDF	1.36e5	0.49	NO	1.06	10.026	33.794	33.80	1.009	1.009	162.45	81.4	0.531	
31	31 13C-1,2,3,7,8,9-HxCDF	1.21e5	0.49	NO	0.879	10.026	34.695	34.74	1.036	1.037	173.92	87.2	0.638	

Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_7B.qld

Last Altered: Friday, June 05, 2020 12:54:54 Pacific Daylight Time

Printed: Friday, June 05, 2020 12:57:46 Pacific Daylight Time

Name: 200604D1\_7, Date: 04-Jun-2020, Time: 16:31:15, ID: B0D0306-DUP1 Duplicate 11.39, Description: Duplicate

#	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	1.11e5	0.42	NO	0.893	10.026	36.403	36.58	1.087	1.092	157.41	78.9	0.559	
33	33 13C-1,2,3,4,7,8,9-HpCDF	8.52e4	0.42	NO	0.613	10.026	38.412	38.37	1.147	1.146	175.13	87.8	0.813	
34	34 13C-OCDF	1.94e5	0.86	NO	0.741	10.026	40.991	41.32	1.224	1.234	330.12	82.7	0.452	
35	35 37Cl-2,3,7,8-TCDD	6.34e4			1.18	10.026	26.208	26.13	1.026	1.023	72.079	90.3	0.113	
36	36 13C-1,2,3,4-TCDD	1.49e5	0.77	NO	1.00	10.026	25.480	25.55	1.000	1.000	199.49	100	0.450	
37	37 13C-1,2,3,4-TCDF	2.11e5	0.75	NO	1.00	10.026	24.020	24.08	1.000	1.000	199.49	100	0.504	
38	38 13C-1,2,3,4,6,9-HxCDF	1.58e5	0.50	NO	1.00	10.026	33.530	33.49	1.000	1.000	199.49	100	0.561	
39	39 Total Tetra-Dioxins				0.987	10.026	24.620		0.000		1.1470		0.164	2.70
40	40 Total Penta-Dioxins				0.982	10.026	29.960		0.000		1.4242		0.238	2.31
41	41 Total Hexa-Dioxins				1.04	10.026	33.635		0.000		9.0668		0.243	9.07
42	42 Total Hepta-Dioxins				0.992	10.026	37.640		0.000		56.936		0.371	56.9
43	43 Total Tetra-Furans				0.882	10.026	23.610		0.000		29.868		0.247	32.2
44	44 1st Func. Penta-Furans				1.05	10.026	27.090		0.000		1.7845		0.0481	1.78
45	45 Total Penta-Furans				1.05	10.026	29.275		0.000		18.135		0.132	18.1
46	46 Total Hexa-Furans				1.11	10.026	33.555		0.000		19.339		0.141	19.3
47	47 Total Hepta-Furans				1.13	10.026	37.835		0.000		19.375		0.229	19.4

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Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_7B.qld

Last Altered: Friday, June 05, 2020 12:54:54 Pacific Daylight Time

Printed: Friday, June 05, 2020 12:57:46 Pacific Daylight Time

Method: Untitled 27 Apr 2020 14:17:24

Calibration: U:\VG7.PRO\CurveDB\ldb-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200604D1\_7, Date: 04-Jun-2020, Time: 16:31:15, ID: B0D0306-DUP1 Duplicate 11.39, Description: Duplicate

## Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.69	3.835e3	3.622e3	3.145e2	3.317e2	0.95	YES	0.000e0	0.00000	0.85046	0.164
2	Total Tetra-Dioxins	23.05	1.981e3	1.502e3	1.201e2	1.312e2	0.92	YES	0.000e0	0.00000	0.33636	0.164
3	Total Tetra-Dioxins	24.44	1.220e3	1.425e3	8.139e1	1.005e2	0.81	NO	1.819e2	0.26351	0.26351	0.164
4	Total Tetra-Dioxins	24.61	2.491e3	2.195e3	1.430e2	1.428e2	1.00	YES	0.000e0	0.00000	0.36598	0.164
5	Total Tetra-Dioxins	25.85	1.948e3	2.517e3	1.578e2	1.932e2	0.82	NO	3.509e2	0.50831	0.50831	0.164
6	2,3,7,8-TCDD	26.14	2.130e3	2.704e3	1.050e2	1.541e2	0.68	NO	2.590e2	0.37518	0.37518	0.164

## Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.62	2.238e3	2.698e3	1.473e2	2.035e2	0.72	NO	3.508e2	0.60435	0.60435	0.238
2	Total Penta-Dioxins	29.06	1.430e3	1.101e3	5.430e1	5.430e1	1.00	YES	0.000e0	0.00000	0.15248	0.238
3	Total Penta-Dioxins	29.52	2.176e3	3.696e3	7.824e1	1.409e2	0.56	NO	2.191e2	0.37743	0.37743	0.238
4	Total Penta-Dioxins	29.66	1.249e3	1.543e3	3.646e1	5.767e1	0.63	NO	9.413e1	0.16216	0.16216	0.238
5	Total Penta-Dioxins	29.76	1.149e3	1.858e3	5.985e1	1.028e2	0.58	NO	1.627e2	0.28027	0.28027	0.238
6	Total Penta-Dioxins	29.96	9.790e2	1.474e3	5.863e1	1.105e2	0.53	YES	0.000e0	0.00000	0.26133	0.238
7	Total Penta-Dioxins	30.27	7.830e2	2.215e3	3.724e1	8.275e1	0.45	YES	0.000e0	0.00000	0.16598	0.238
8	1,2,3,7,8-PeCDD	30.67	1.276e3	1.613e3	4.570e1	9.870e1	0.46	YES	1.444e2	0.00000	0.20371	0.238
9	Total Penta-Dioxins	30.75	8.460e2	7.050e2	3.701e1	3.789e1	0.98	YES	0.000e0	0.00000	0.10639	0.238

## Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.46	2.597e4	1.875e4	1.225e3	9.444e2	1.30	NO	2.169e3	4.0178	4.0178	0.243
2	Total Hexa-Dioxins	33.02	4.684e3	2.905e3	2.296e2	1.676e2	1.37	NO	3.972e2	0.73564	0.73564	0.243
3	Total Hexa-Dioxins	33.28	1.328e4	1.143e4	9.026e2	7.610e2	1.19	NO	1.664e3	3.0810	3.0810	0.243
4	1,2,3,6,7,8-HxCDD	34.08	4.220e3	5.027e3	2.430e2	2.241e2	1.08	NO	4.671e2	0.81479	0.81479	0.230
5	1,2,3,7,8,9-HxCDD	34.41	2.635e3	2.151e3	1.324e2	9.443e1	1.40	NO	2.268e2	0.41750	0.41750	0.246

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Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_7B.qld

Last Altered: Friday, June 05, 2020 12:54:54 Pacific Daylight Time

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Name: 200604D1\_7, Date: 04-Jun-2020, Time: 16:31:15, ID: B0D0306-DUP1 Duplicate 11.39, Description: Duplicate

## Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.99	1.264e5	1.159e5	7.778e3	7.391e3	1.05	NO	1.517e4	32.796	32.796	0.371
2	1,2,3,4,6,7,8-HpCDD	37.86	1.051e5	9.530e4	5.755e3	5.411e3	1.06	NO	1.117e4	24.141	24.141	0.371

## Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.55	2.187e3	2.767e3	1.517e2	2.249e2	0.67	NO	3.766e2	0.50893	0.50893	0.247
2	Total Tetra-Furans	21.11	1.813e3	2.016e3	1.153e2	1.840e2	0.63	YES	0.000e0	0.00000	0.35802	0.247
3	Total Tetra-Furans	21.74	6.843e3	6.787e3	5.337e2	6.415e2	0.83	NO	1.175e3	1.5881	1.5881	0.247
4	Total Tetra-Furans	22.32	2.480e3	5.097e3	4.148e2	5.774e2	0.72	NO	9.922e2	1.3407	1.3407	0.247
5	Total Tetra-Furans	22.67	9.453e3	1.245e4	8.997e2	1.138e3	0.79	NO	2.037e3	2.7532	2.7532	0.247
6	Total Tetra-Furans	23.08	4.544e3	7.758e3	3.943e2	5.809e2	0.68	NO	9.751e2	1.3177	1.3177	0.247
7	Total Tetra-Furans	23.38	2.603e3	2.384e3	1.636e2	1.583e2	1.03	YES	0.000e0	0.00000	0.37868	0.247
8	Total Tetra-Furans	23.73	1.202e3	1.504e3	8.504e1	1.010e2	0.84	NO	1.860e2	0.25138	0.25138	0.247
9	Total Tetra-Furans	23.85	2.281e3	3.391e3	1.419e2	2.762e2	0.51	YES	0.000e0	0.00000	0.44085	0.247
10	Total Tetra-Furans	24.05	5.503e3	7.740e3	3.762e2	6.080e2	0.62	YES	0.000e0	0.00000	1.1686	0.247
11	Total Tetra-Furans	24.12	1.497e4	1.840e4	1.289e3	1.592e3	0.81	NO	2.881e3	3.8933	3.8933	0.247
12	Total Tetra-Furans	24.54	3.236e4	3.563e4	2.208e3	2.646e3	0.83	NO	4.855e3	6.5599	6.5599	0.247
13	Total Tetra-Furans	24.78	3.984e3	3.620e3	1.826e2	2.612e2	0.70	NO	4.438e2	0.59976	0.59976	0.247
14	Total Tetra-Furans	24.98	2.916e3	3.110e3	1.802e2	2.480e2	0.73	NO	4.282e2	0.57866	0.57866	0.247
15	Total Tetra-Furans	25.26	1.253e4	1.731e4	9.287e2	1.281e3	0.73	NO	2.209e3	2.9854	2.9854	0.247
16	2,3,7,8-TCDF	25.35	2.710e4	4.267e4	1.825e3	2.522e3	0.72	NO	4.347e3	5.8735	5.8735	0.247
17	Total Tetra-Furans	25.67	3.472e3	4.327e3	2.213e2	3.318e2	0.67	NO	5.531e2	0.74737	0.74737	0.247
18	Total Tetra-Furans	27.14	4.710e3	7.692e3	2.729e2	3.711e2	0.74	NO	6.440e2	0.87024	0.87024	0.247

## 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	27.12	1.607e4	9.886e3	9.541e2	6.349e2	1.50	NO	1.589e3	1.7845	1.7845	0.0481



Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_7B.qld

Last Altered: Friday, June 05, 2020 12:54:54 Pacific Daylight Time

Printed: Friday, June 05, 2020 12:57:46 Pacific Daylight Time

Name: 200604D1\_7, Date: 04-Jun-2020, Time: 16:31:15, ID: B0D0306-DUP1 Duplicate 11.39, Description: Duplicate

## Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.58	3.090e4	1.951e4	2.639e3	1.782e3	1.48	NO	4.421e3	4.9653	4.9653	0.132
2	Total Penta-Furans	29.10	1.914e4	1.318e4	1.111e3	7.795e2	1.43	NO	1.890e3	2.1230	2.1230	0.132
3	Total Penta-Furans	29.32	8.497e3	5.381e3	4.717e2	3.018e2	1.56	NO	7.735e2	0.86862	0.86862	0.132
4	1,2,3,7,8-PeCDF	29.50	4.566e4	3.199e4	2.586e3	1.745e3	1.48	NO	4.332e3	4.8145	4.8145	0.133
5	Total Penta-Furans	29.72	1.786e4	1.341e4	1.018e3	7.306e2	1.39	NO	1.748e3	1.9636	1.9636	0.132
6	Total Penta-Furans	30.29	2.715e3	1.682e3	1.188e2	7.867e1	1.51	NO	1.975e2	0.22179	0.22179	0.132
7	2,3,4,7,8-PeCDF	30.39	2.748e4	1.730e4	1.085e3	7.487e2	1.45	NO	1.834e3	2.0523	2.0523	0.129
8	Total Penta-Furans	30.41	1.958e4	1.527e4	6.398e2	3.624e2	1.77	NO	1.002e3	1.1256	1.1256	0.132

## Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	31.92	8.074e3	6.598e3	3.476e2	2.878e2	1.21	NO	6.354e2	0.85405	0.85405	0.141
2	Total Hexa-Furans	32.08	2.302e4	1.702e4	1.047e3	7.972e2	1.31	NO	1.845e3	2.4793	2.4793	0.141
3	Total Hexa-Furans	32.61	1.688e4	1.622e4	9.775e2	8.039e2	1.22	NO	1.781e3	2.3944	2.3944	0.141
4	1,2,3,4,7,8-HxCDF	33.09	7.241e4	6.185e4	3.667e3	3.091e3	1.19	NO	6.758e3	9.1283	9.1283	0.135
5	1,2,3,6,7,8-HxCDF	33.22	2.142e4	1.644e4	1.046e3	8.451e2	1.24	NO	1.891e3	2.5764	2.5764	0.137
6	2,3,4,6,7,8-HxCDF	33.81	6.300e3	5.255e3	3.896e2	2.781e2	1.40	NO	6.678e2	0.88036	0.88036	0.143
7	1,2,3,7,8,9-HxCDF	34.76	3.127e3	1.888e3	8.152e1	5.815e1	1.40	NO	1.397e2	0.21733	0.21733	0.174
8	Total Hexa-Furans	34.79	6.087e3	4.845e3	3.285e2	2.733e2	1.20	NO	6.019e2	0.80898	0.80898	0.141

## Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.59	3.678e4	3.487e4	2.427e3	2.375e3	1.02	NO	4.802e3	7.6181	7.6181	0.213
2	Total Hepta-Furans	37.19	4.466e4	4.238e4	2.652e3	2.557e3	1.04	NO	5.209e3	9.3659	9.3659	0.229
3	1,2,3,4,7,8,9-HpCDF	38.39	1.163e4	1.190e4	7.042e2	6.575e2	1.07	NO	1.362e3	2.3907	2.3907	0.212

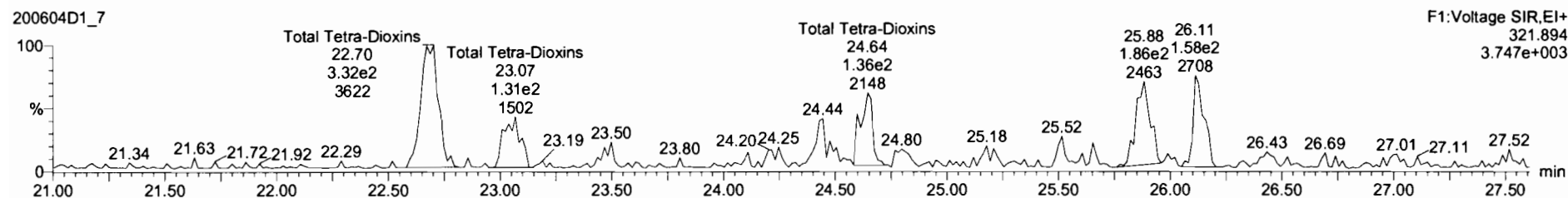
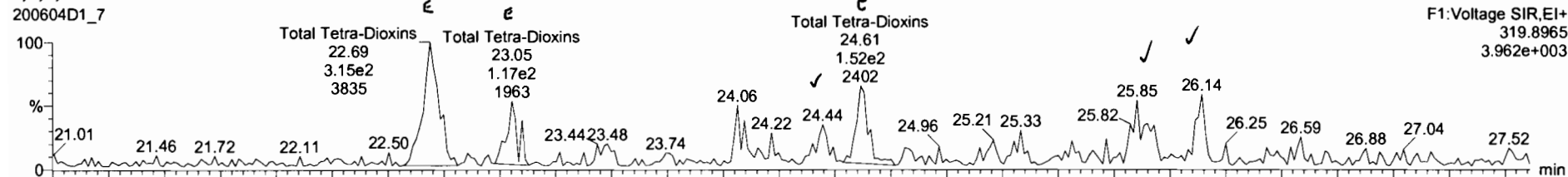
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Printed: Friday, June 05, 2020 09:43:55 Pacific Daylight Time

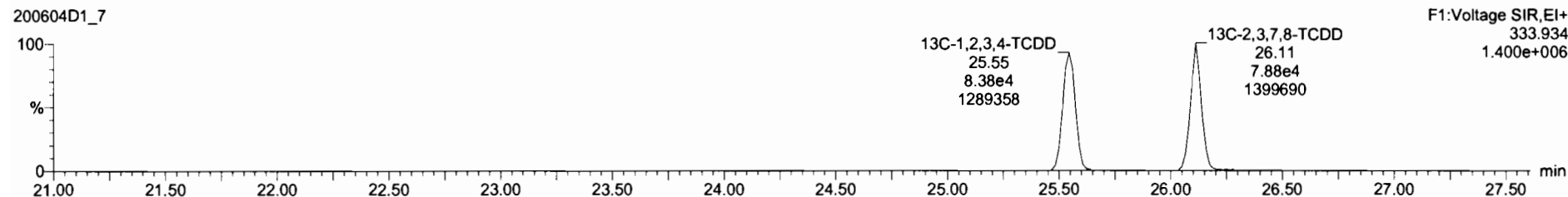
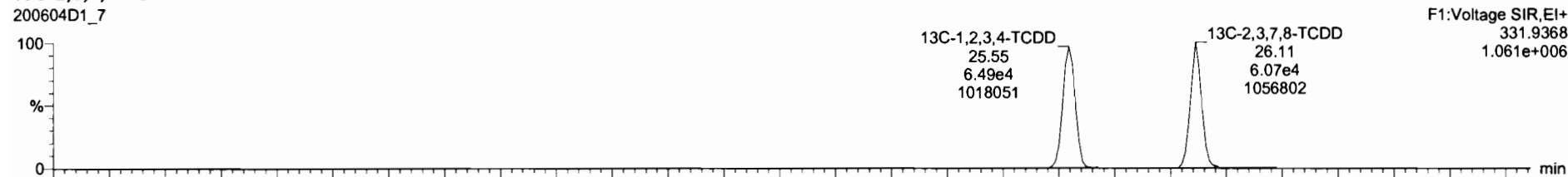
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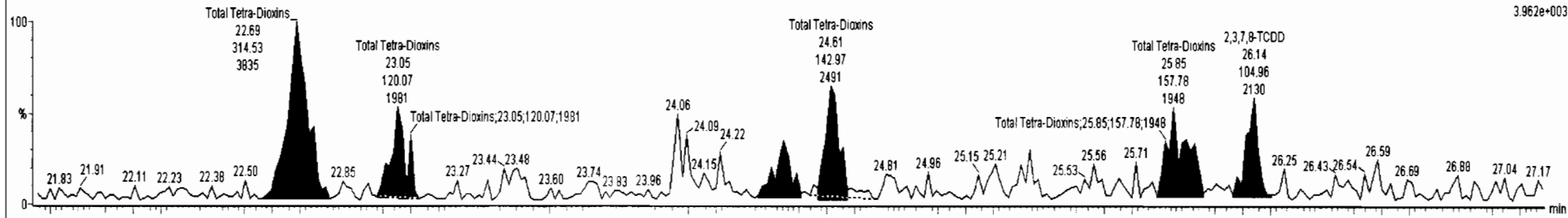
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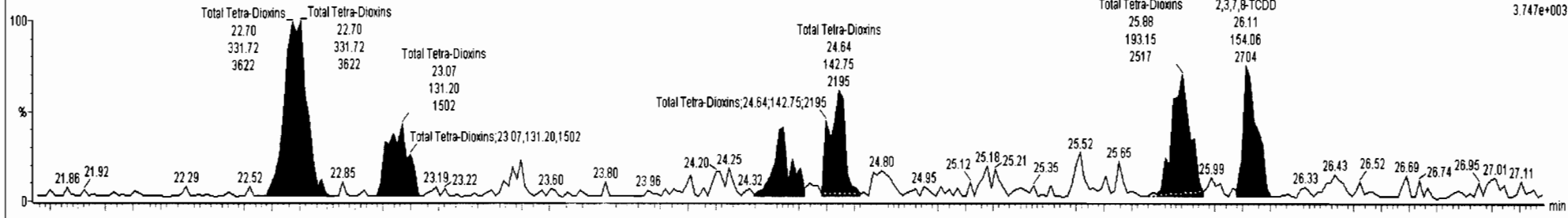
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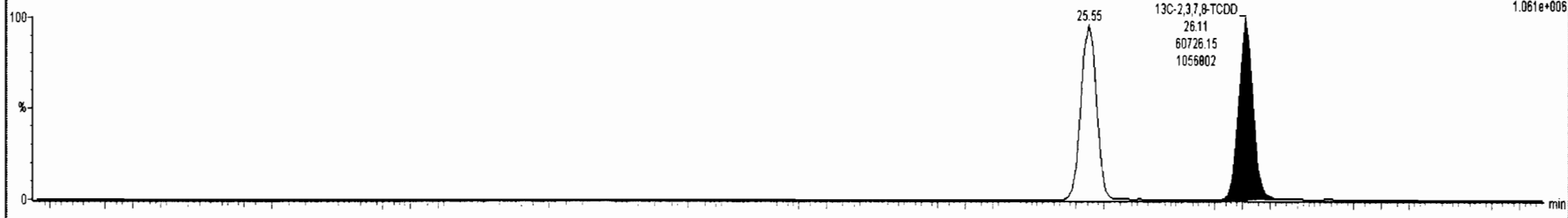
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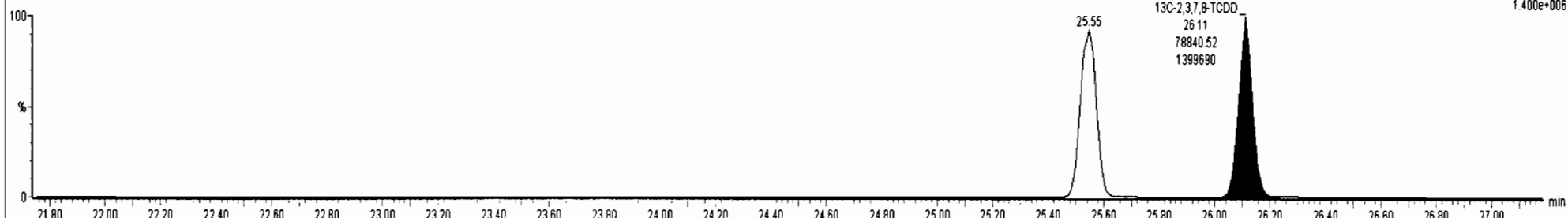
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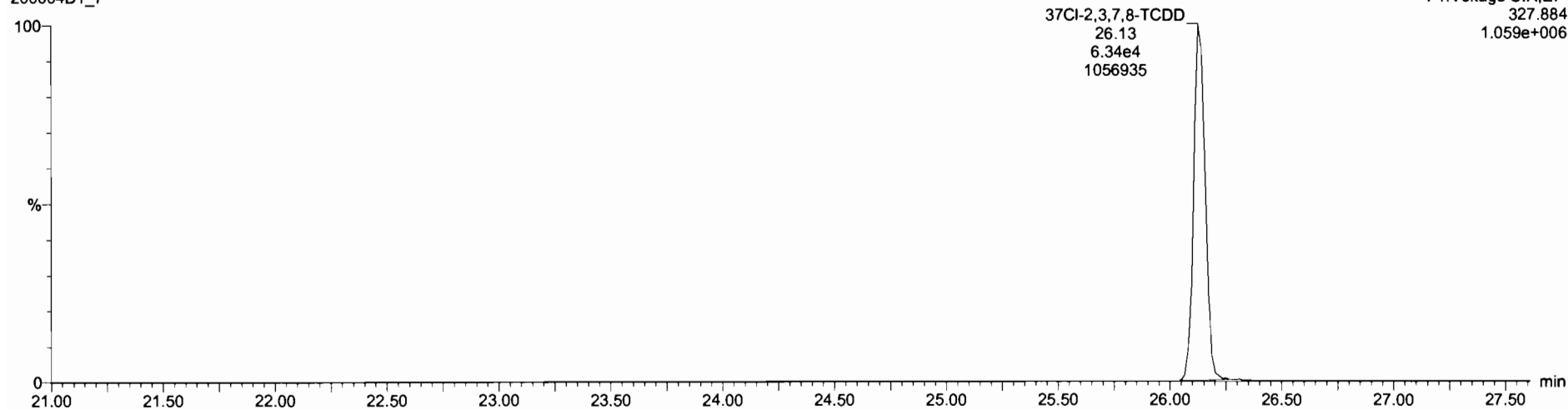
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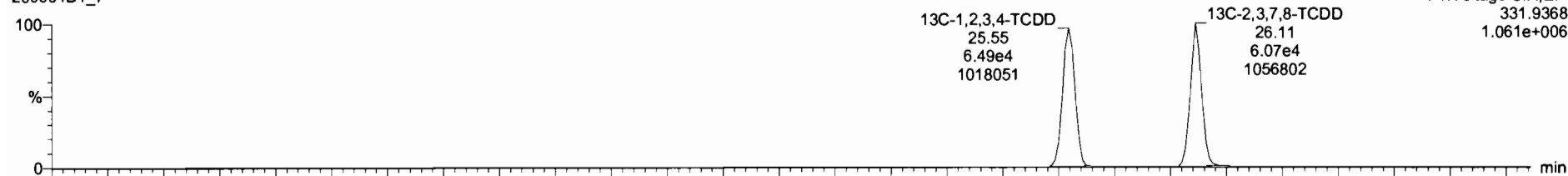
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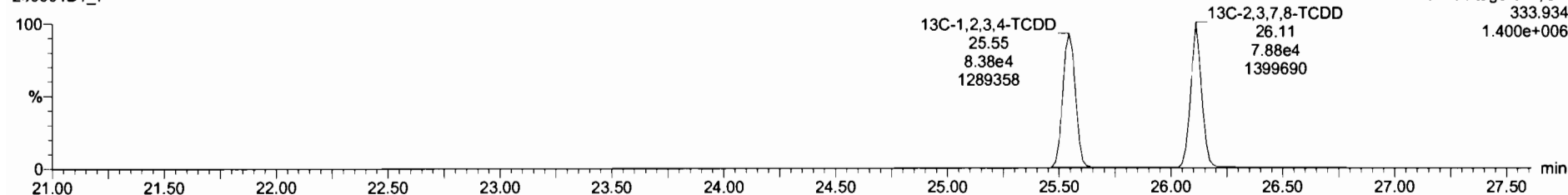


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200604D1\_7



200604D1\_7



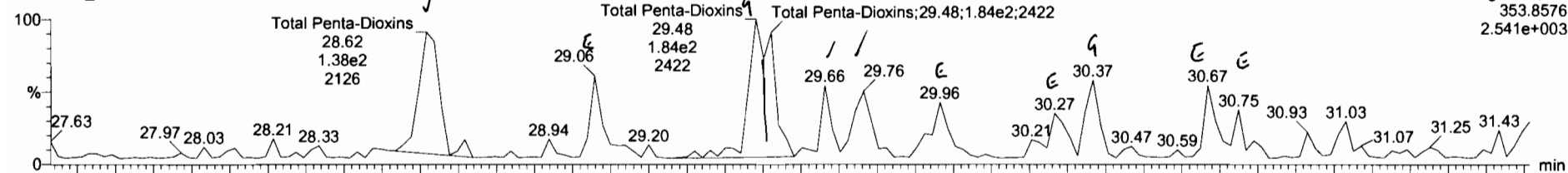
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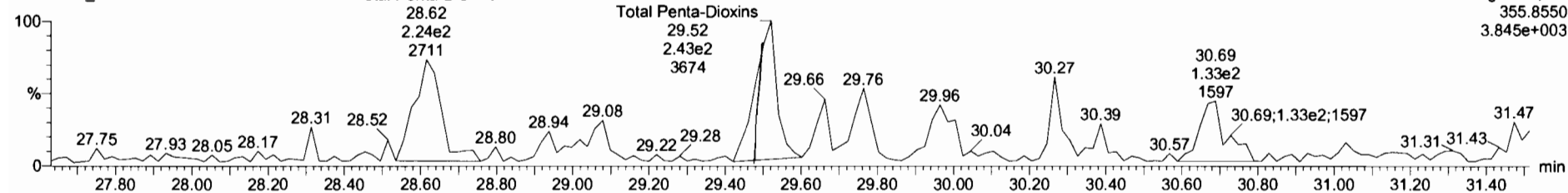
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1,2,3,7,8-PeCDD

200604D1\_7

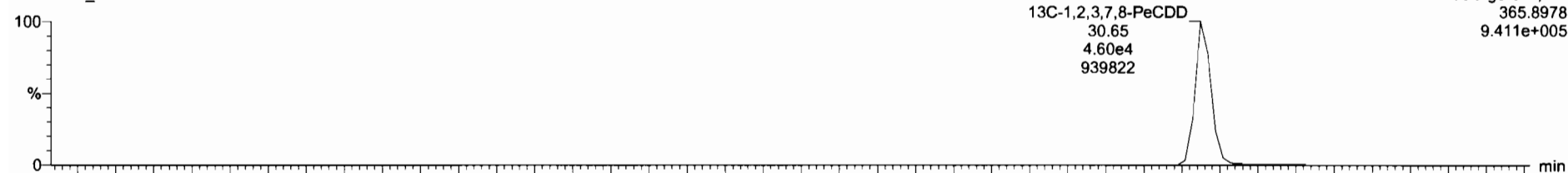


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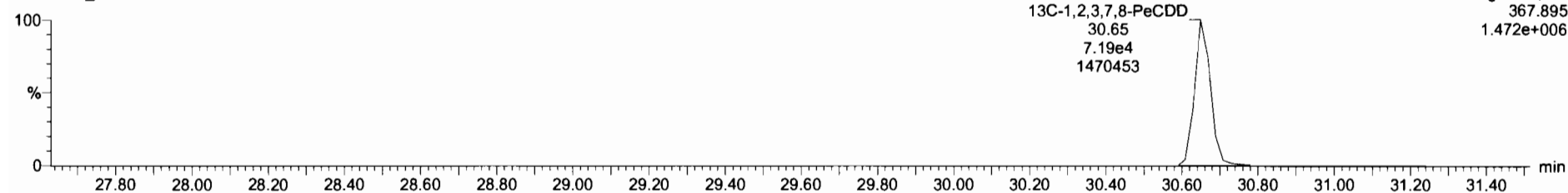


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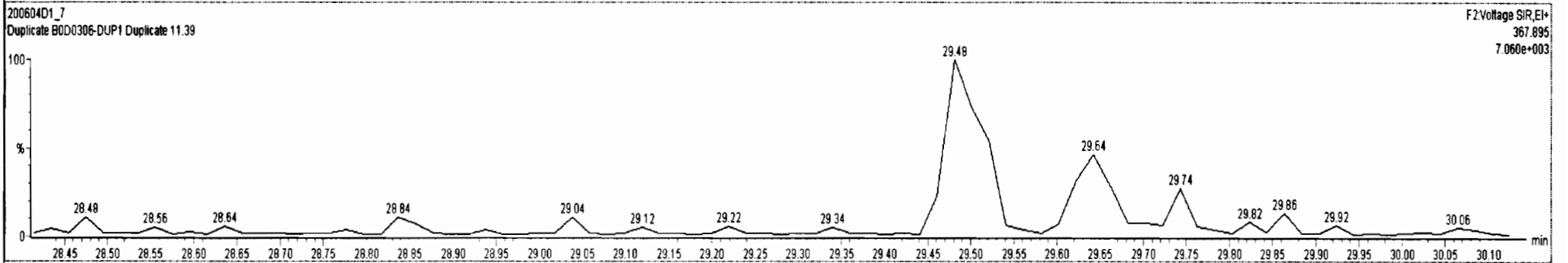
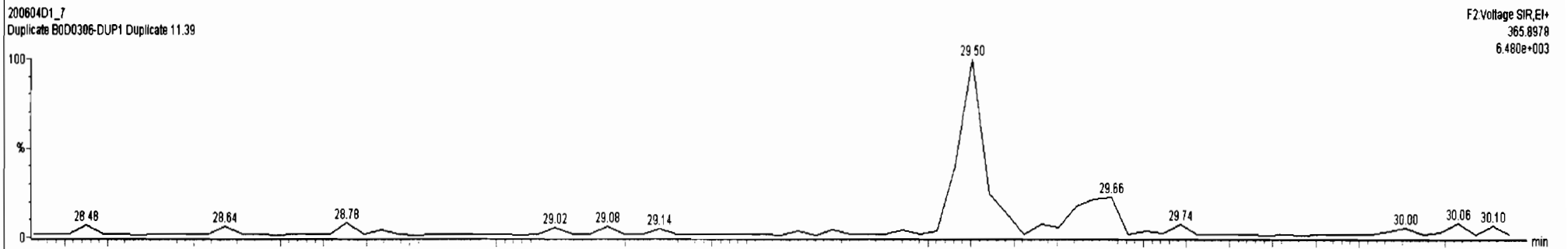
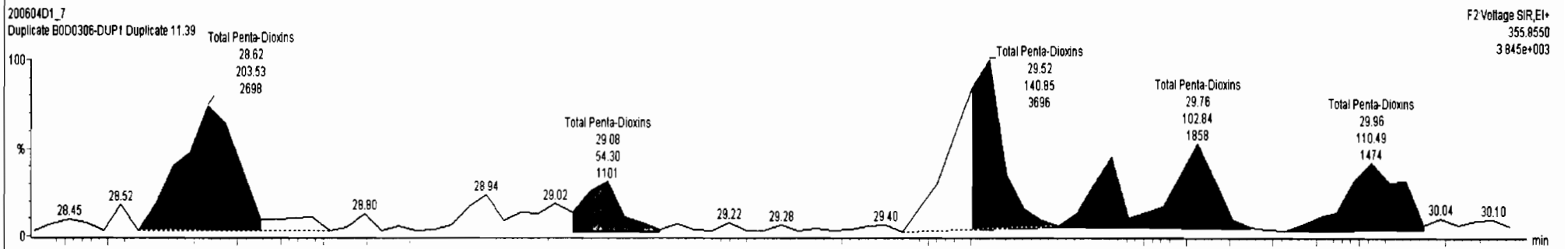
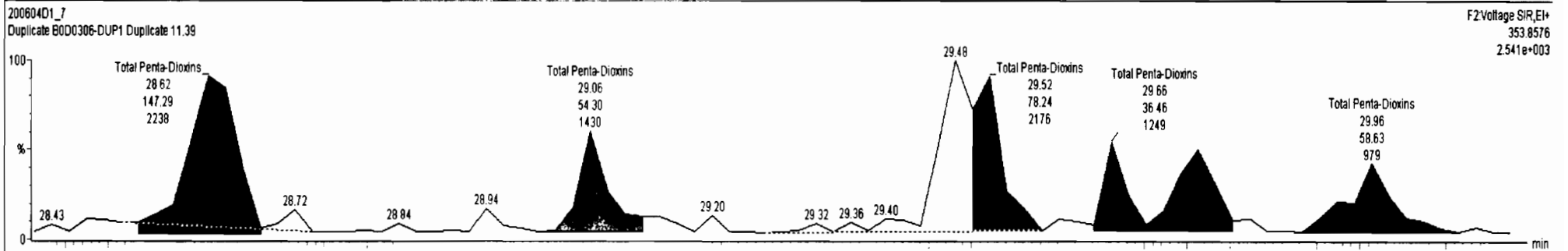
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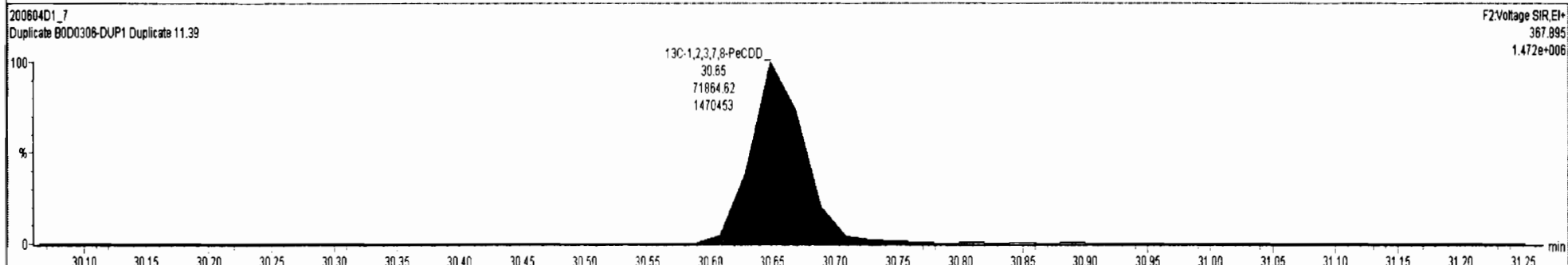
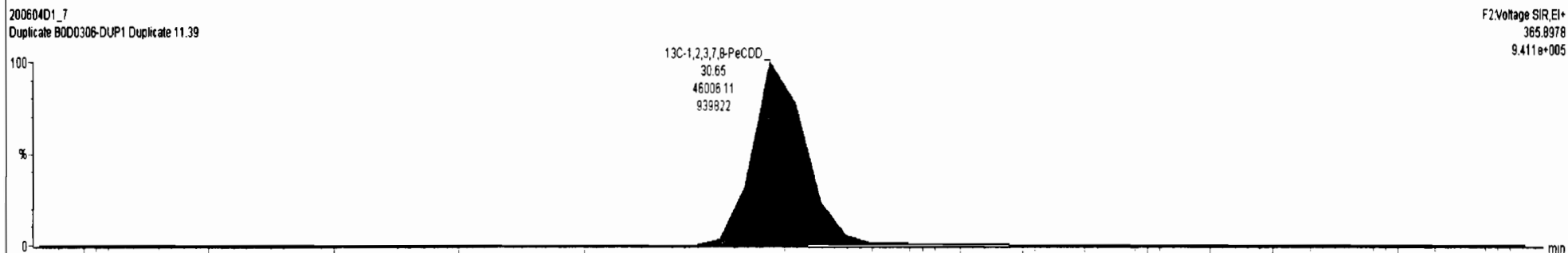
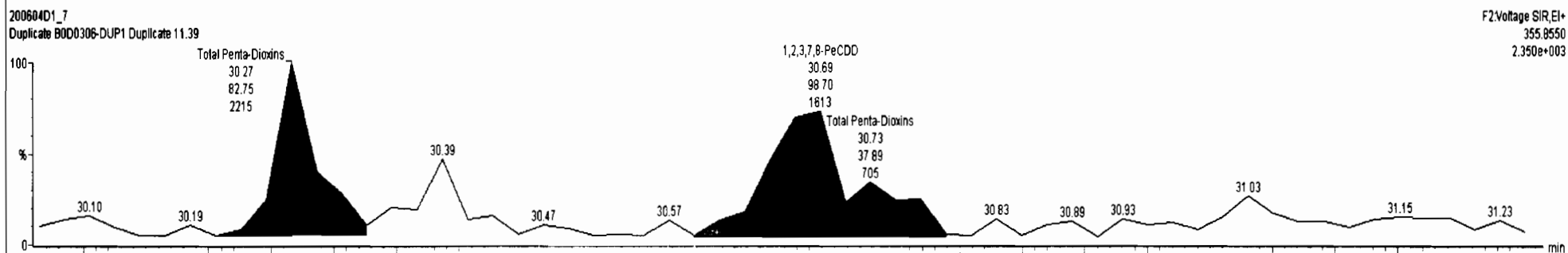
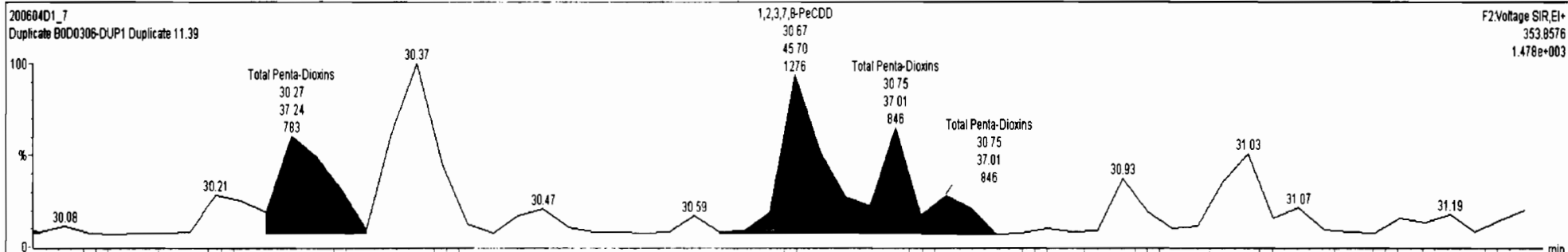
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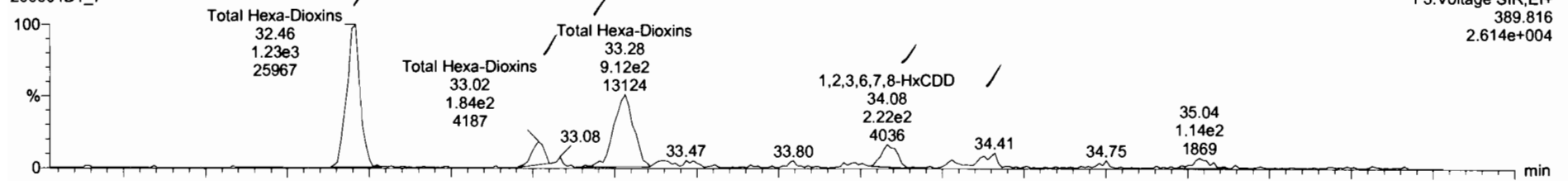
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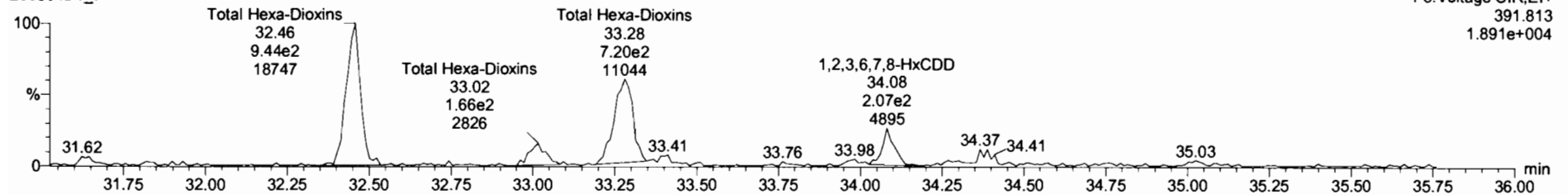
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1,2,3,4,7,8-HxCDD

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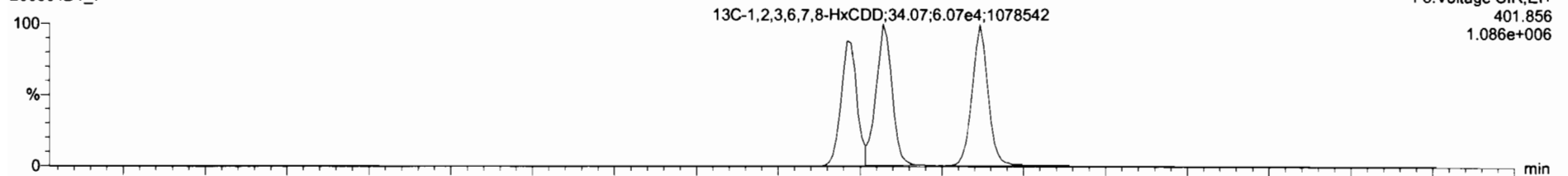


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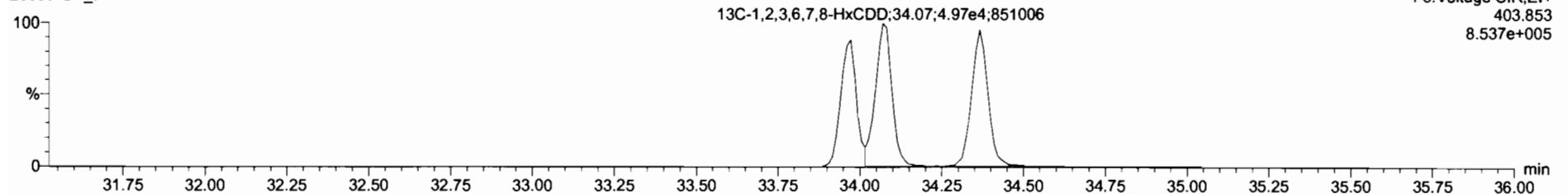


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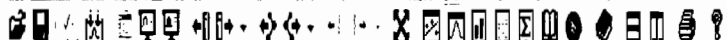
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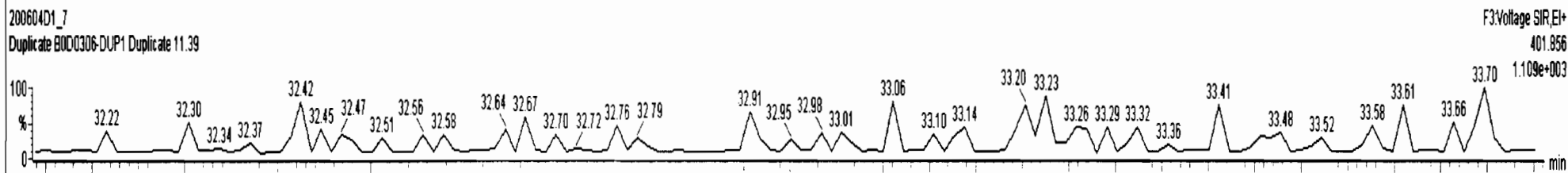
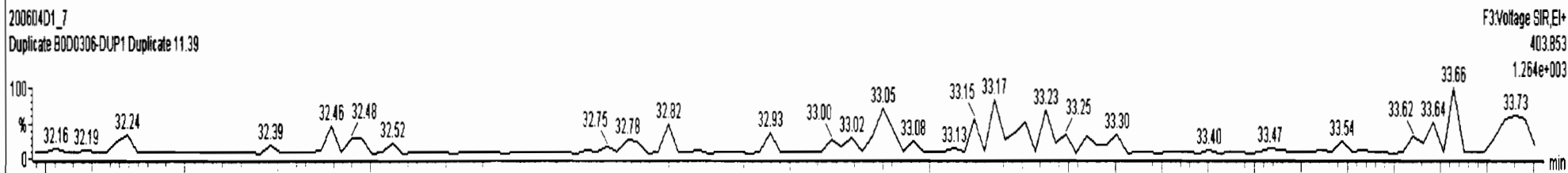
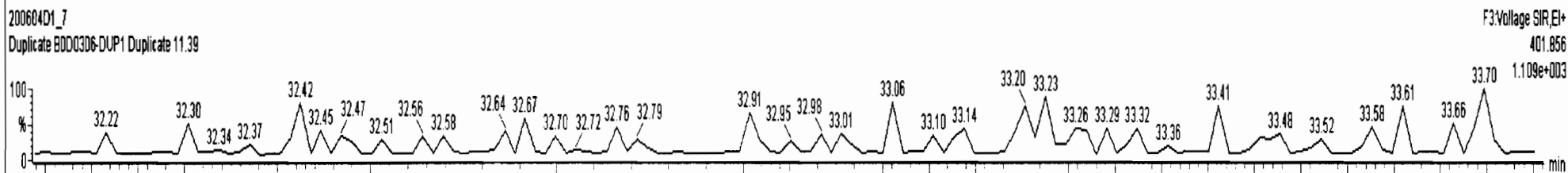
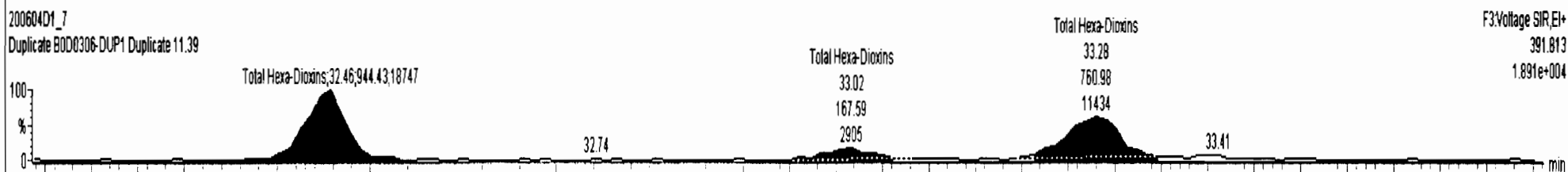
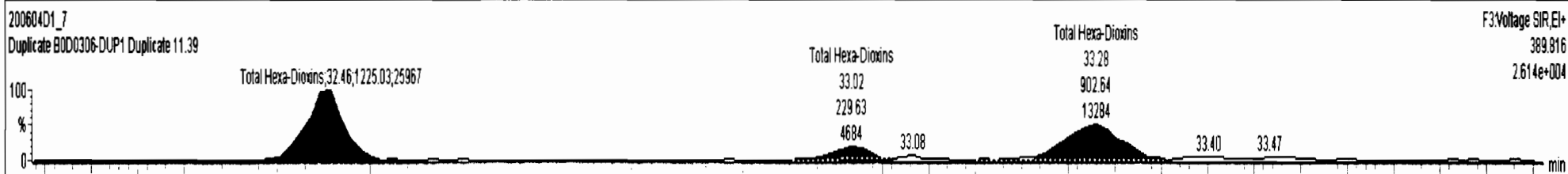
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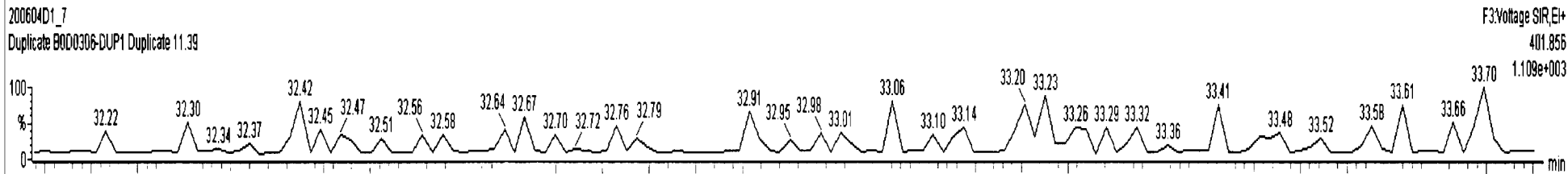
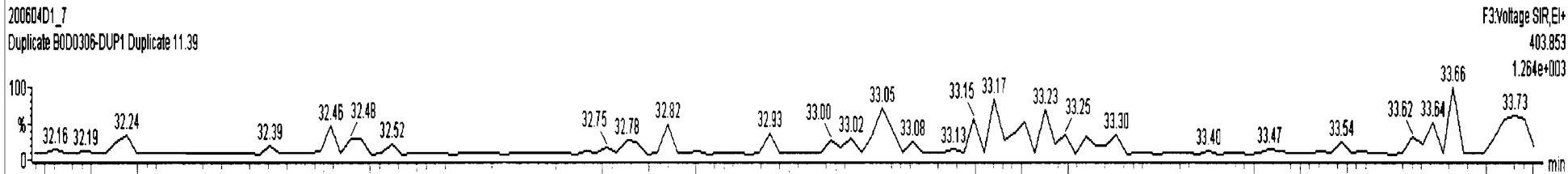
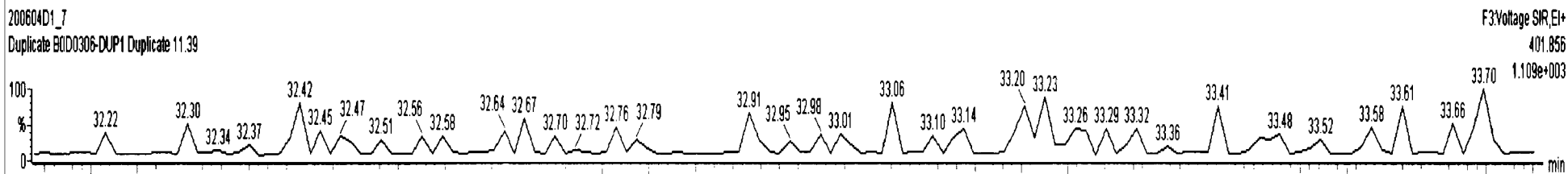
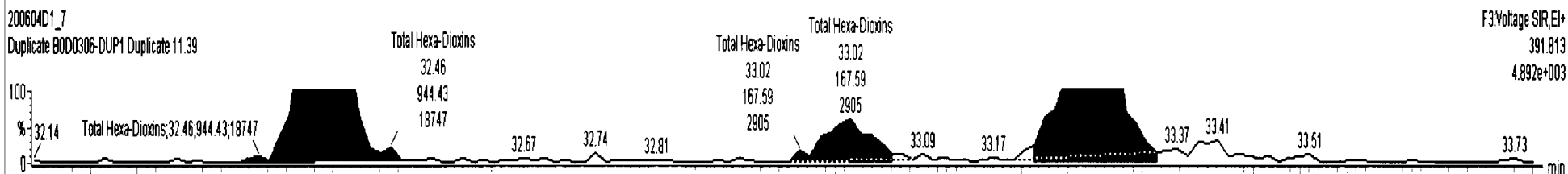
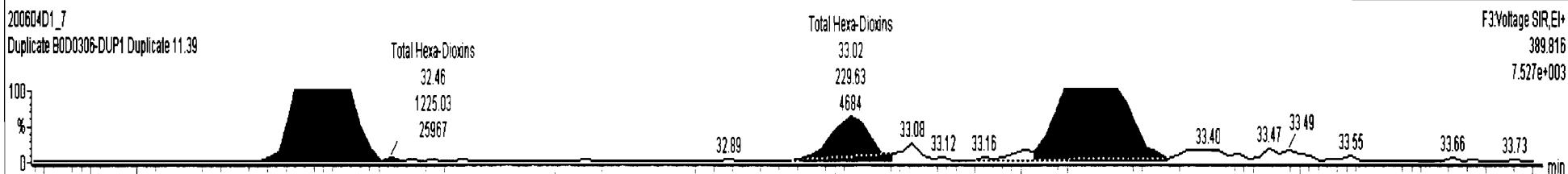


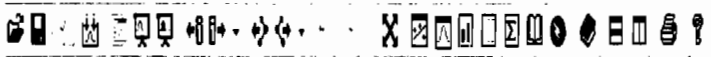
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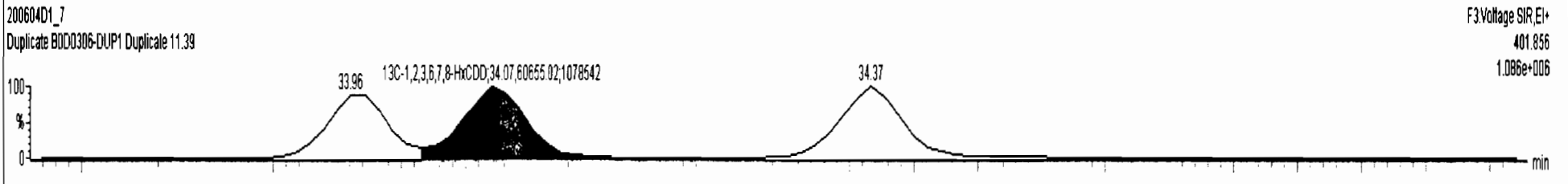
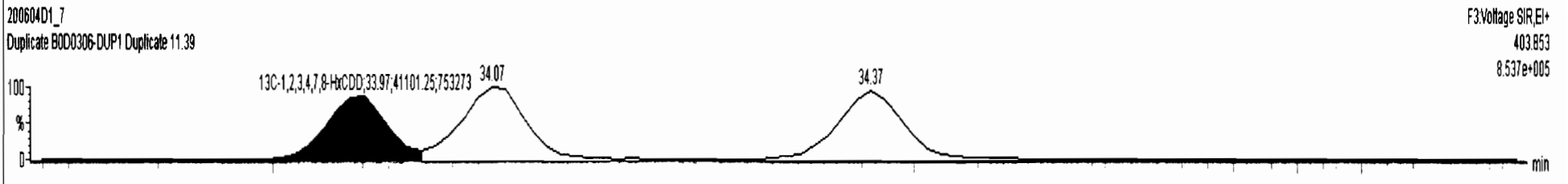
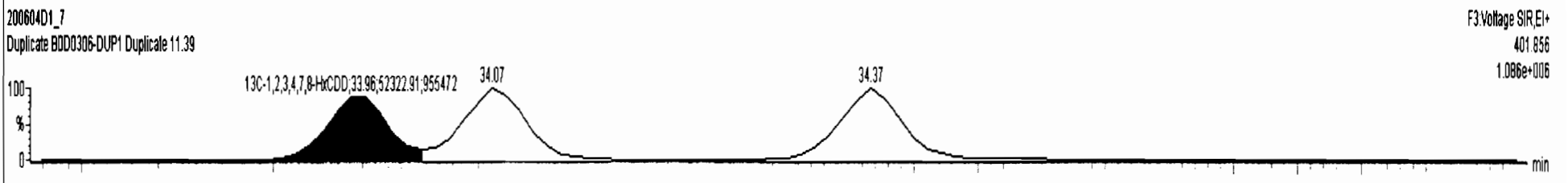
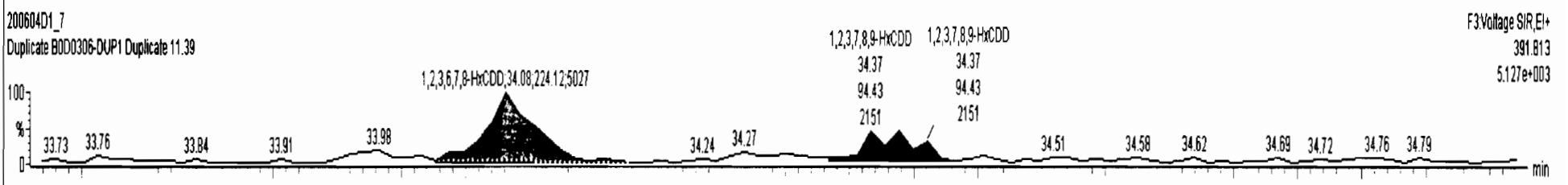
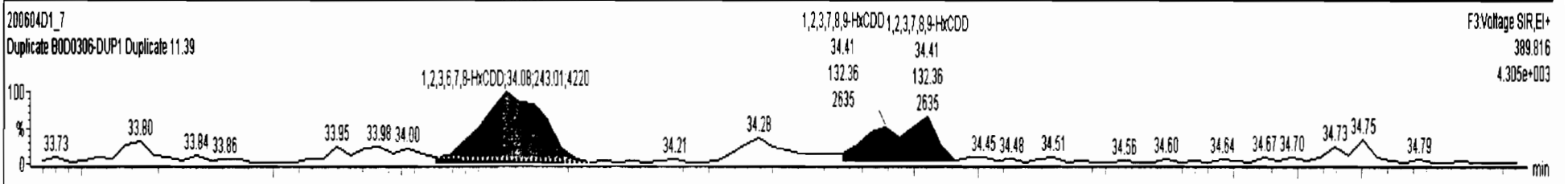


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20060401\_7-EIC0306-DUP1 Duplicate 11.39 - Dup. 11.39



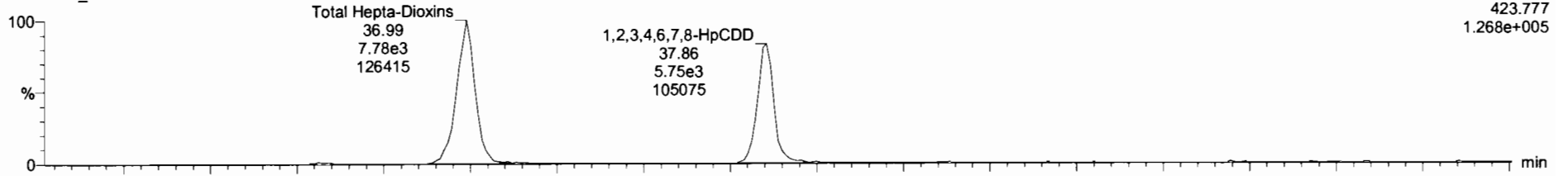
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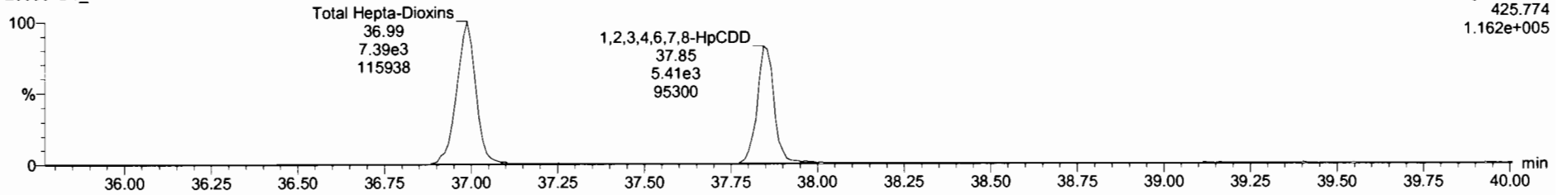
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1,2,3,4,6,7,8-HpCDD

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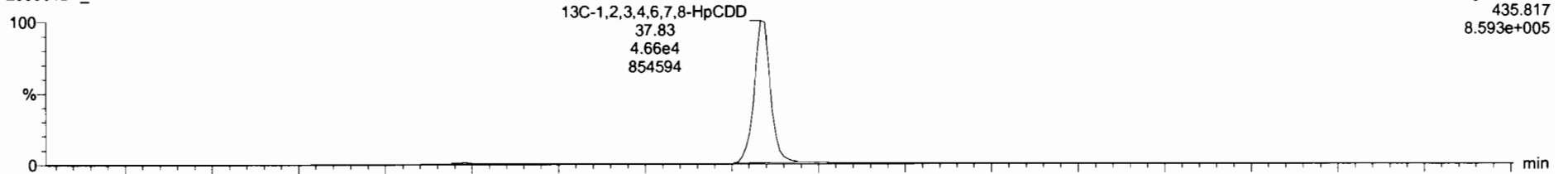


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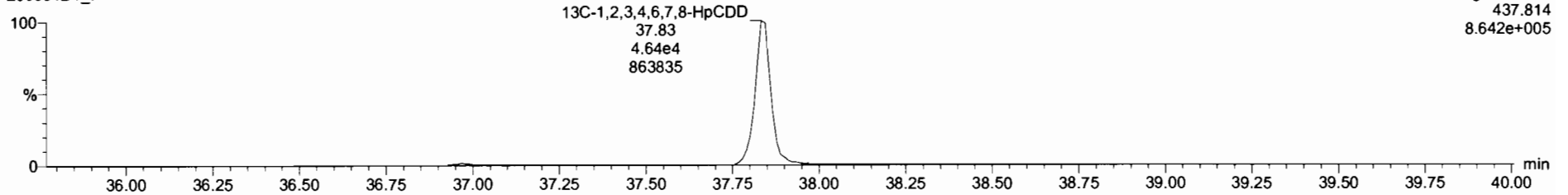


13C-1,2,3,4,6,7,8-HpCDD

200604D1\_7



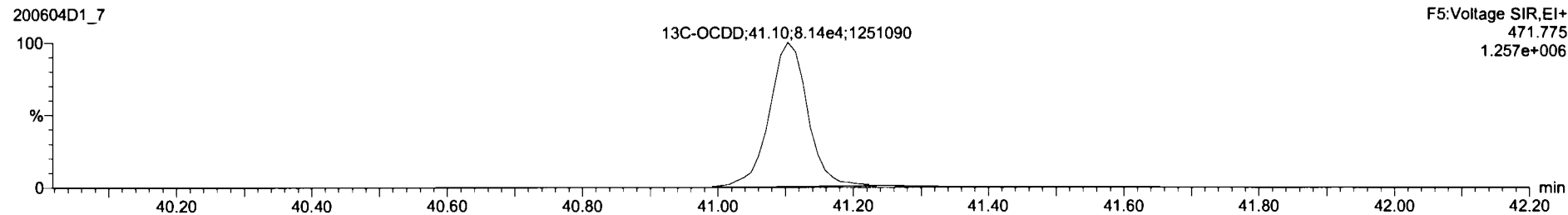
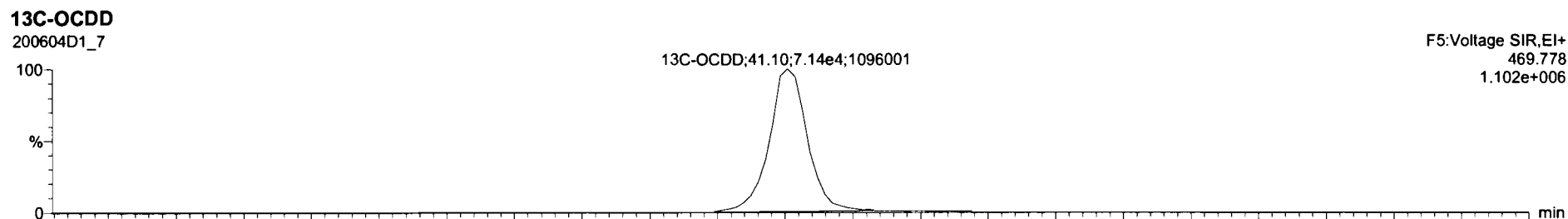
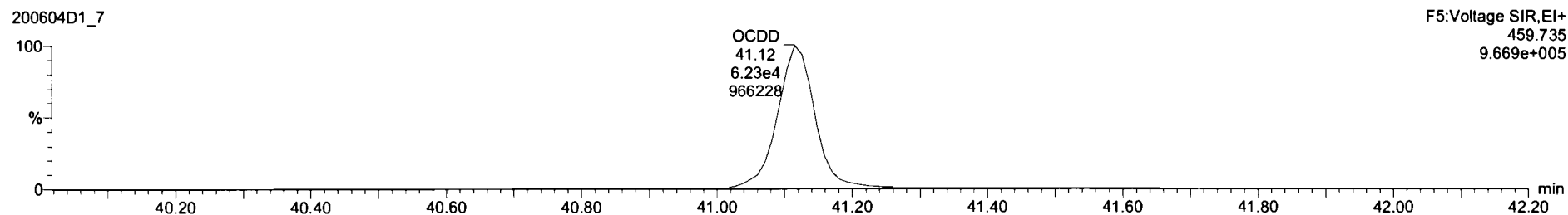
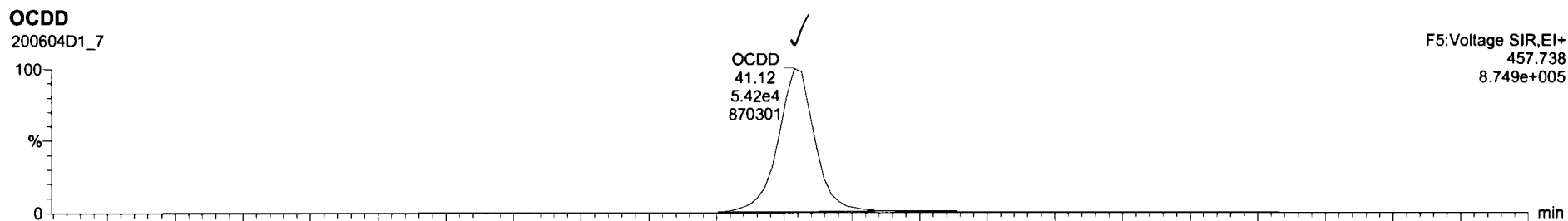
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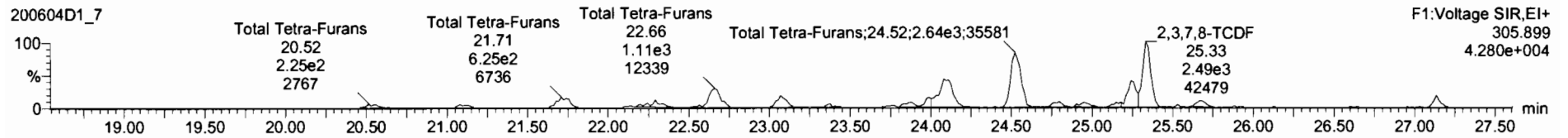
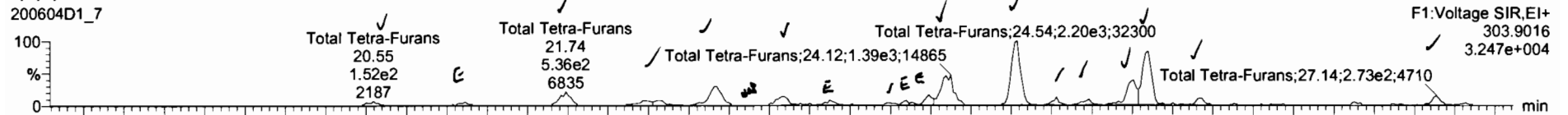


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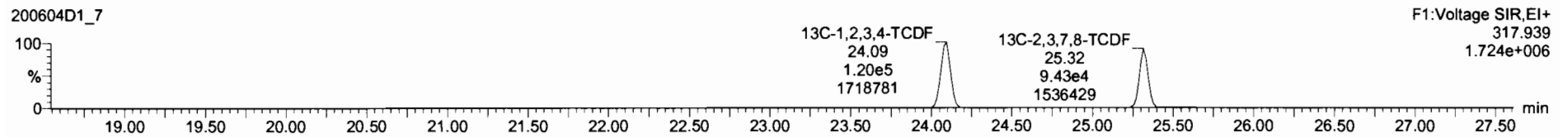
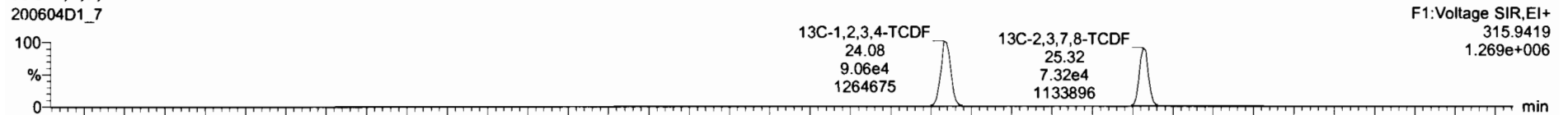
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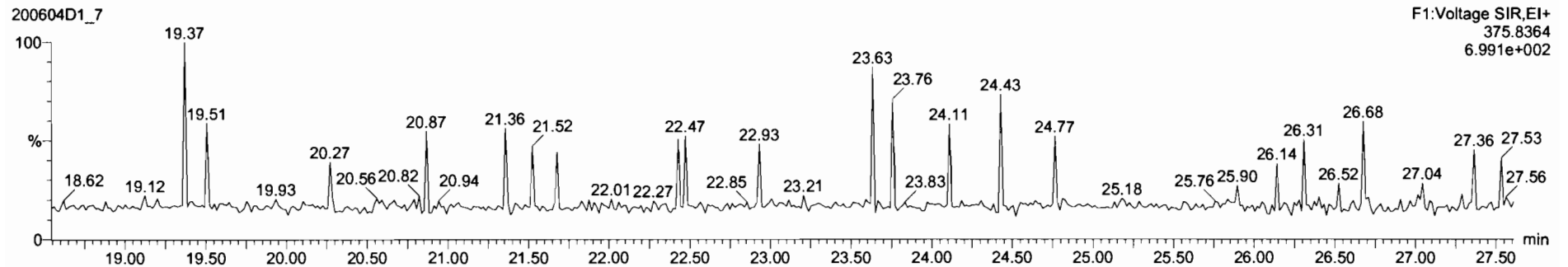
2,3,7,8-TCDF



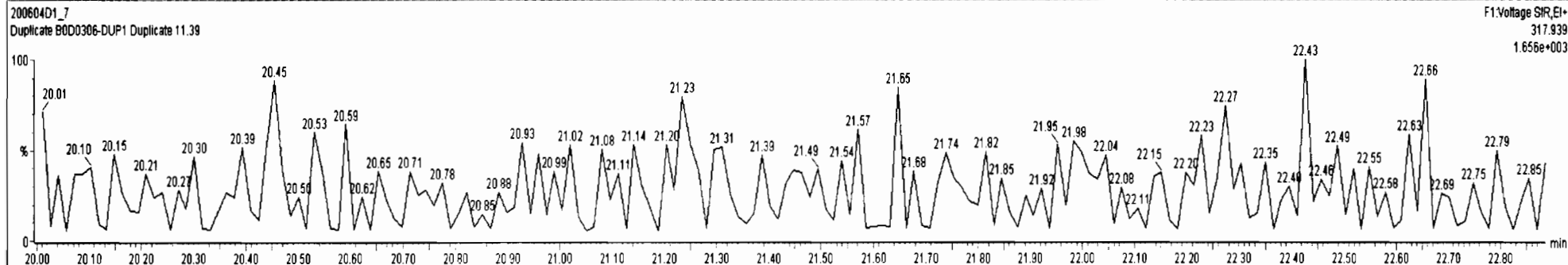
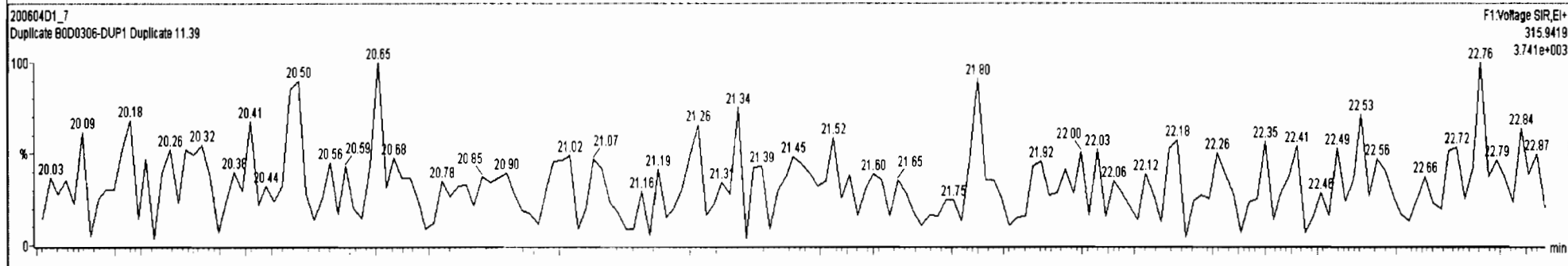
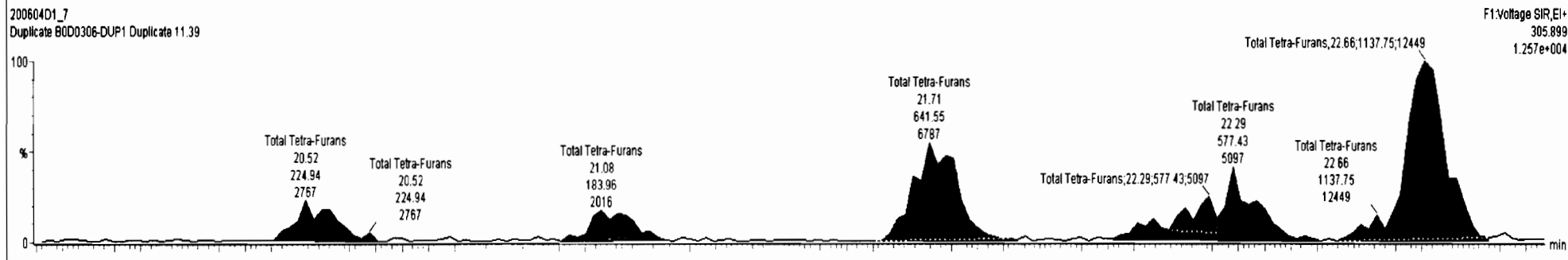
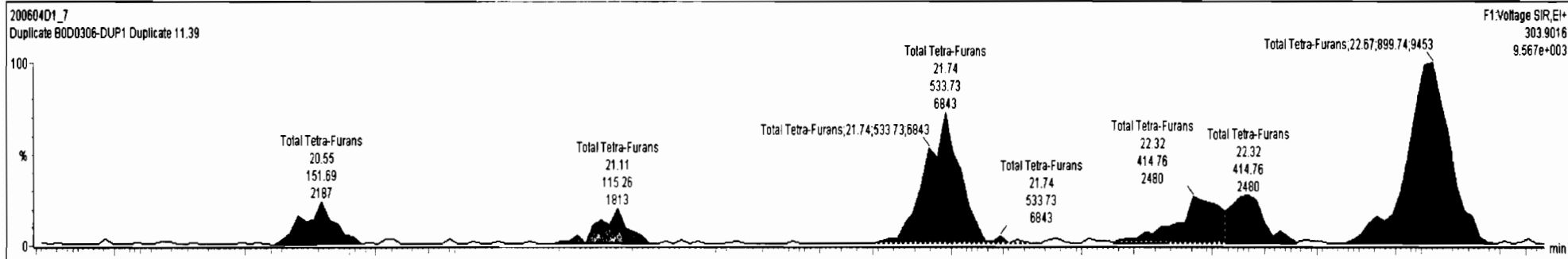
13C-2,3,7,8-TCDF



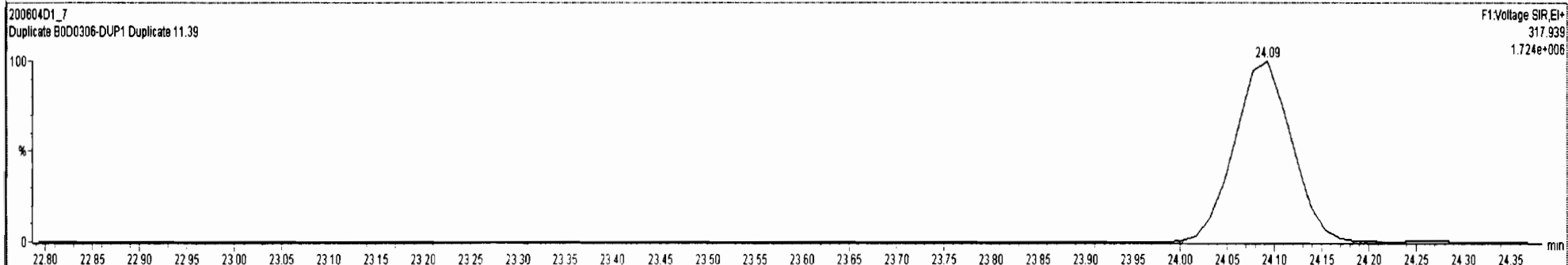
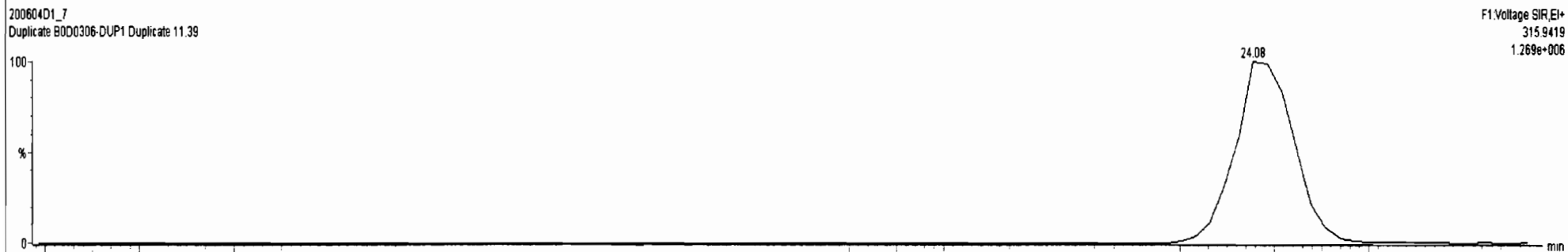
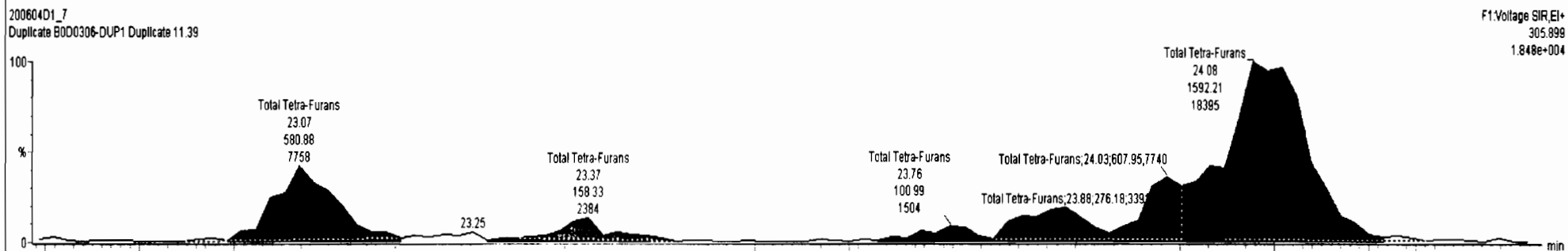
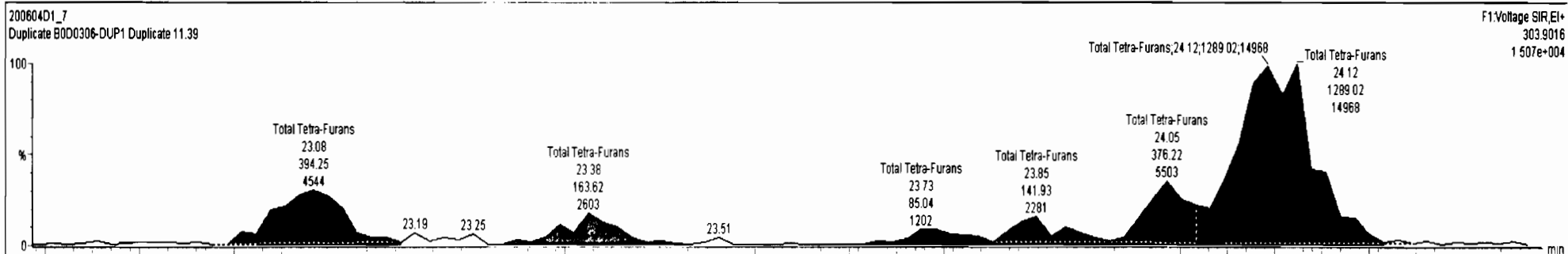
DPE1



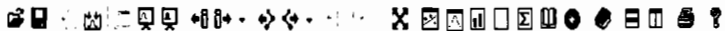
200604D1\_7 - BOD0306-DUP1 Duplicate 11.39



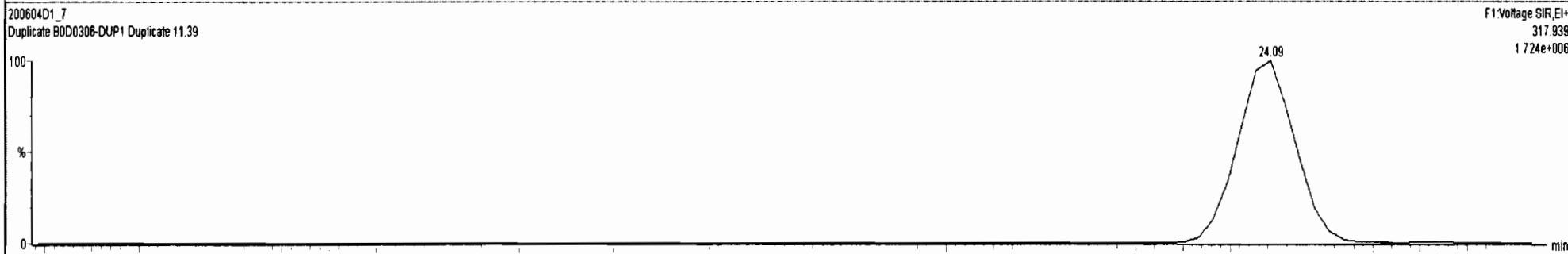
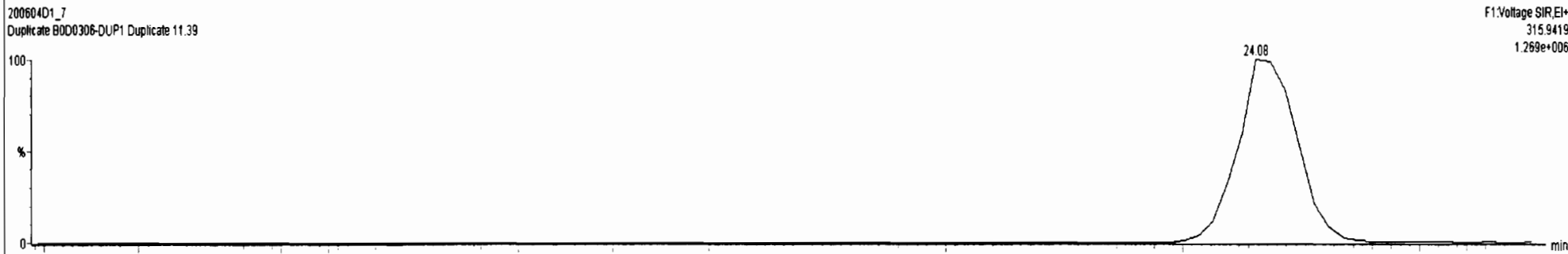
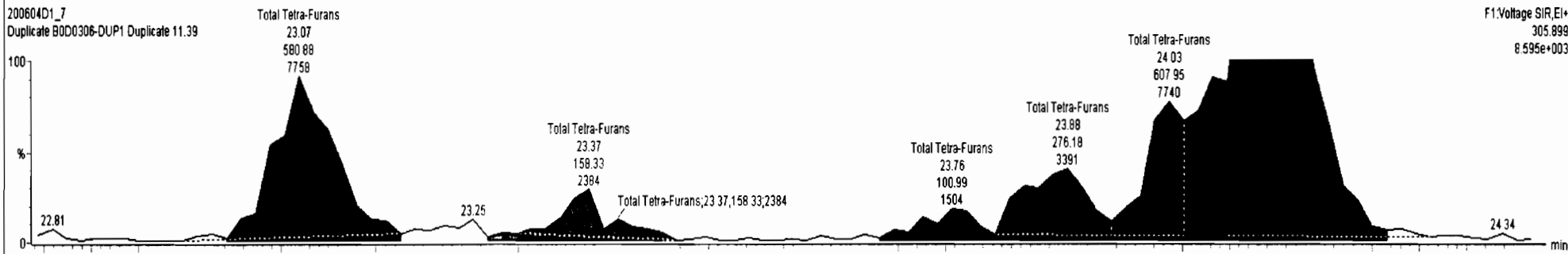
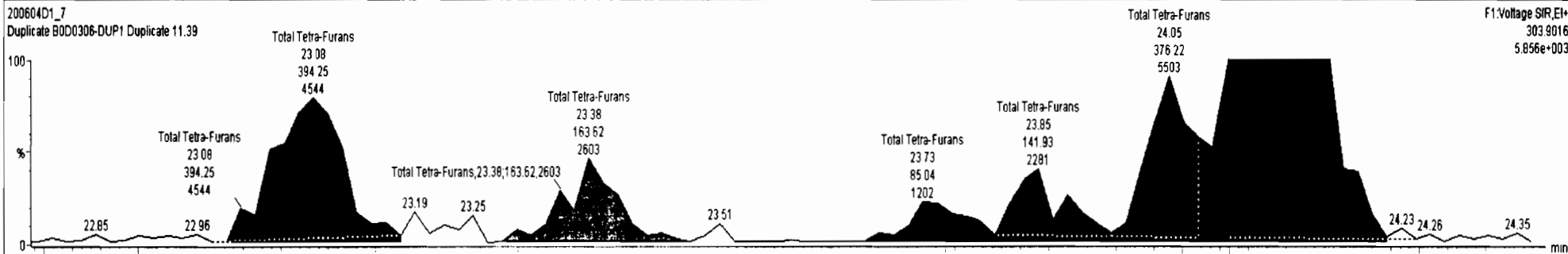
20060401\_7-5000336-DUP1 Duplicate 11.39



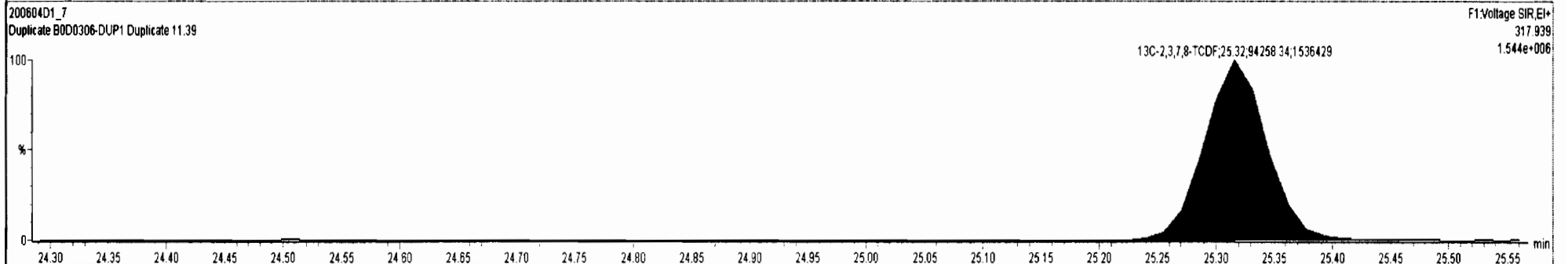
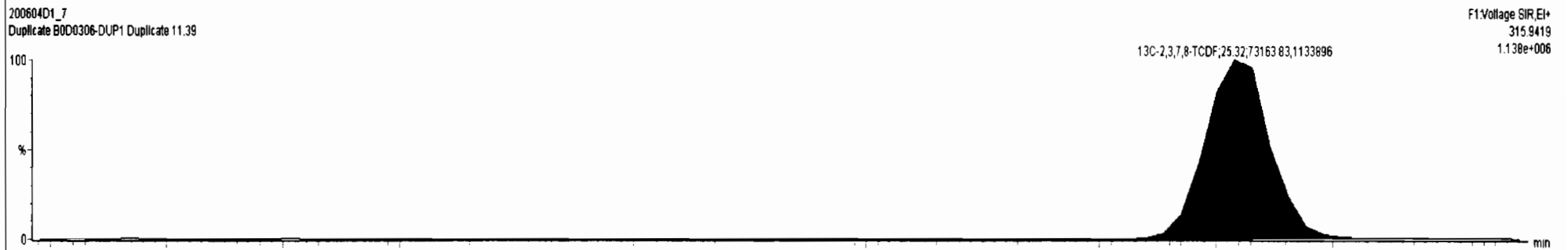
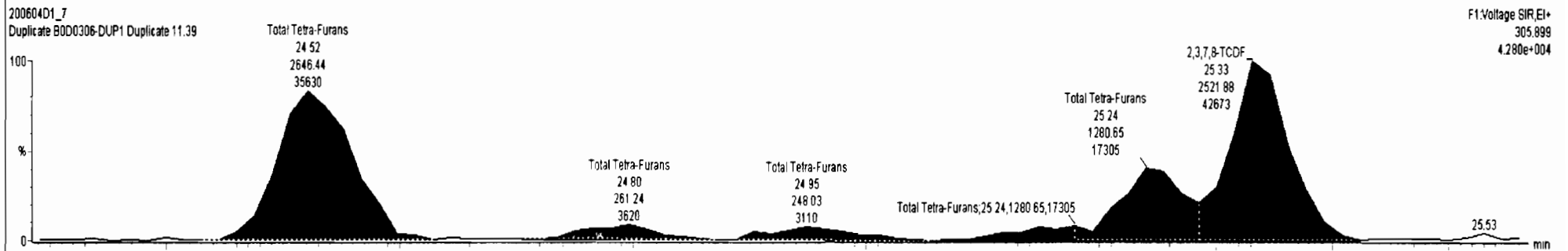
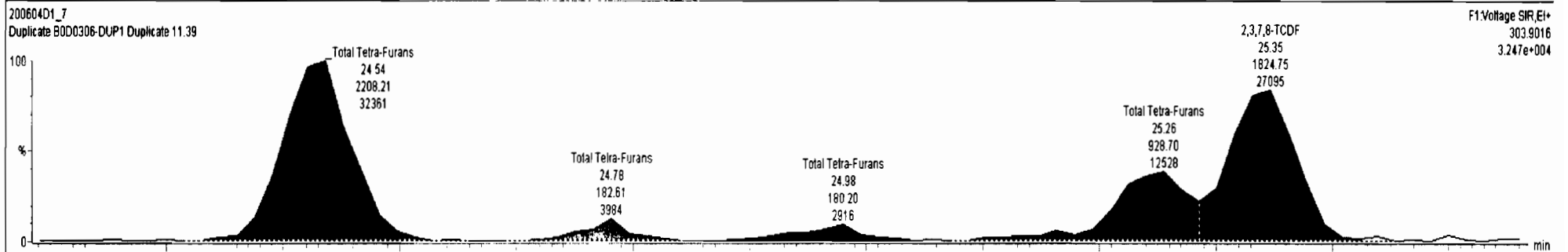




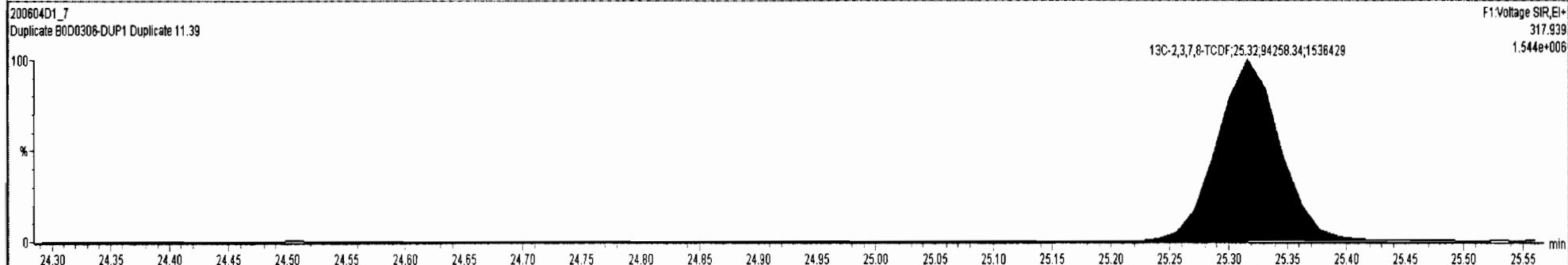
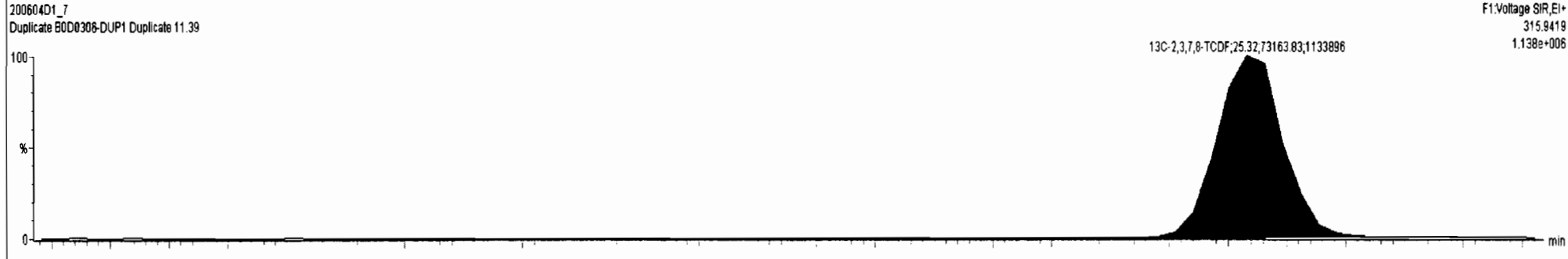
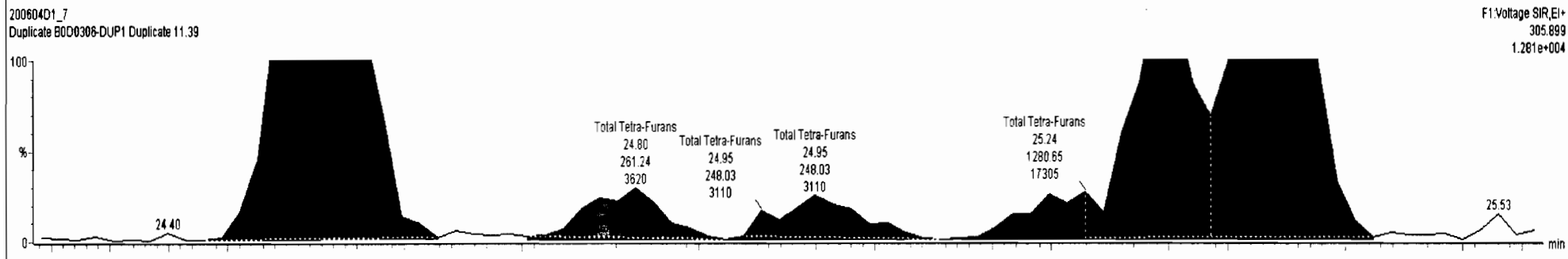
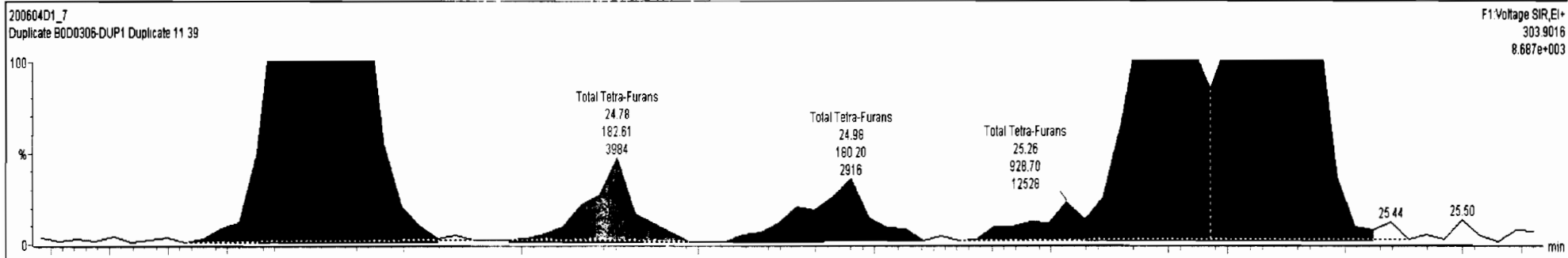
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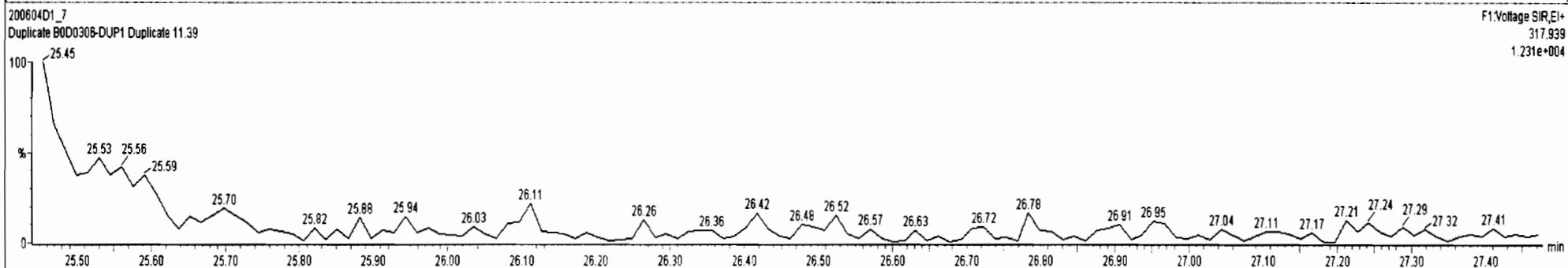
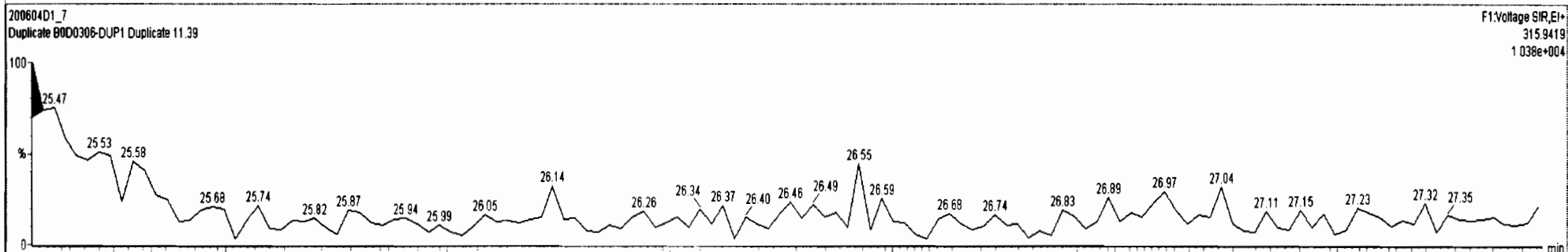
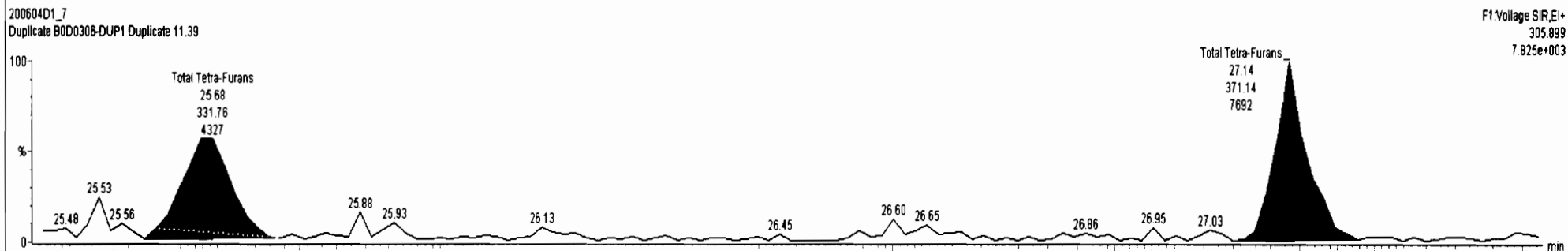
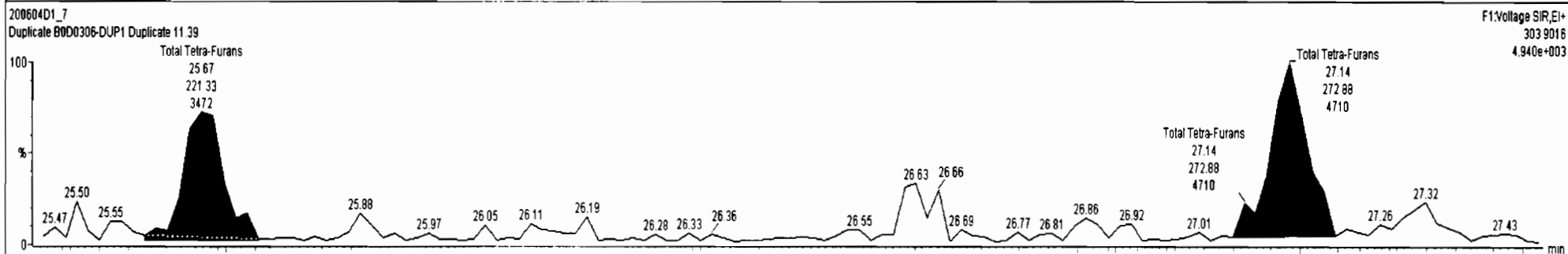


20060401\_7 - BOD0306-DUP1 11.39



200604D1\_7 - EIC 0306-DUP1 Duplicate 11.39 - Duplicate





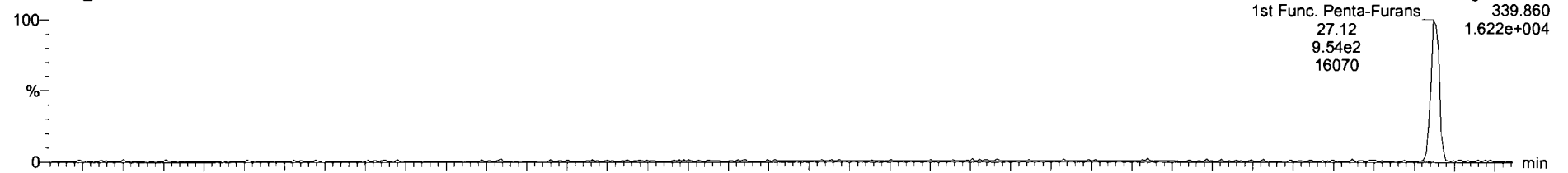
Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_7.qld

Last Altered: Friday, June 05, 2020 09:33:36 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:43:55 Pacific Daylight Time

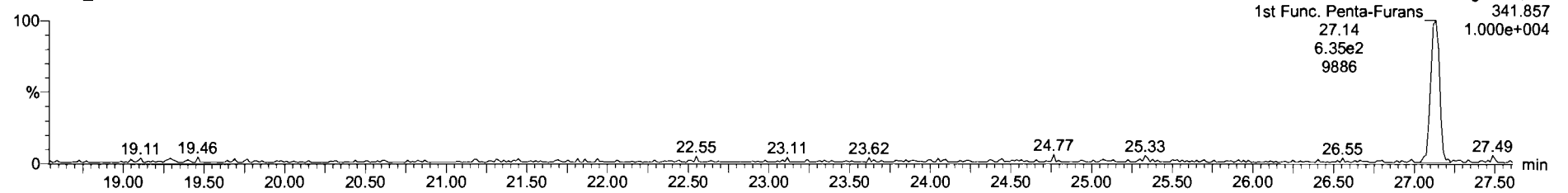
Name: 200604D1\_7, Date: 04-Jun-2020, Time: 16:31:15, ID: B0D0306-DUP1 Duplicate 11.39, Description: Duplicate

1st Func. Penta-Furans

200604D1\_7

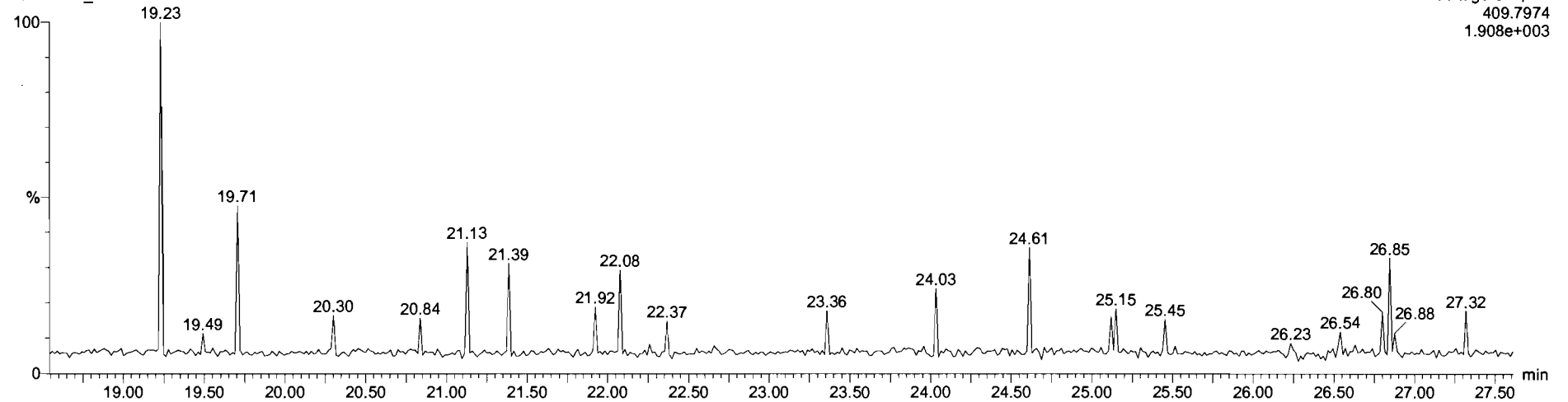


200604D1\_7



DPE6

200604D1\_7

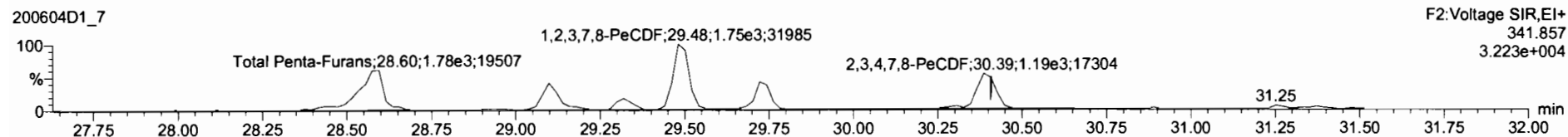
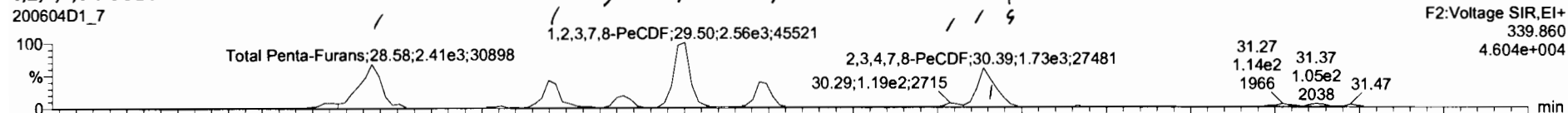


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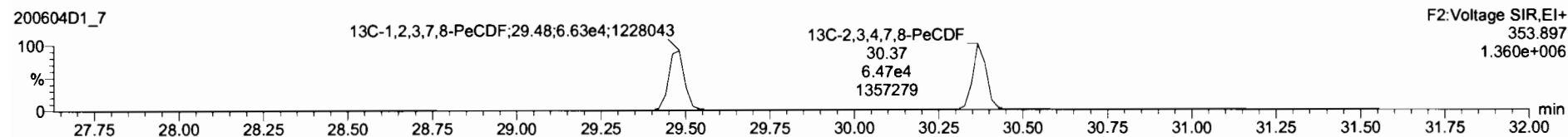
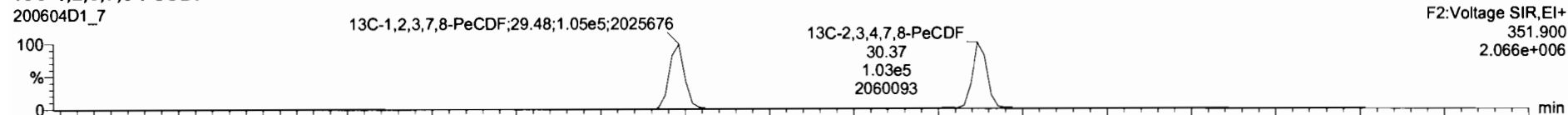
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Printed: Friday, June 05, 2020 09:43:55 Pacific Daylight Time

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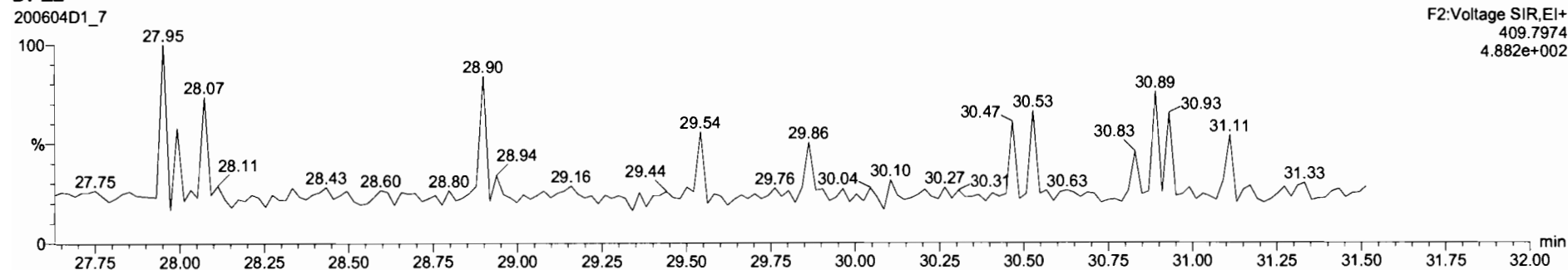
**1,2,3,7,8-PeCDF**



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

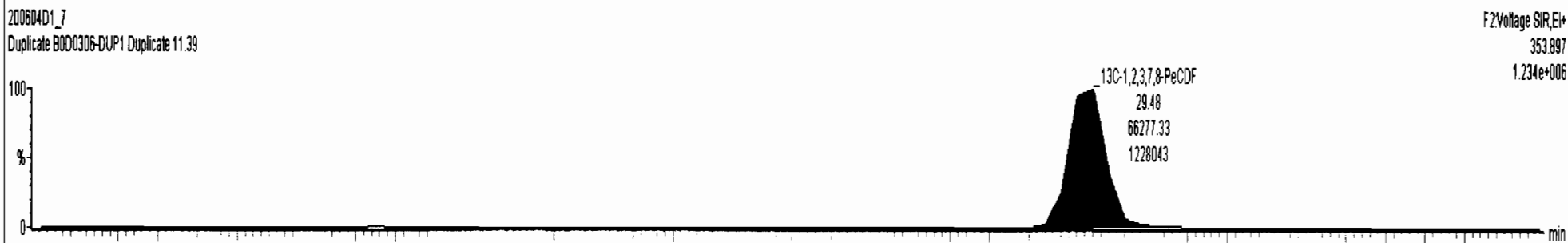
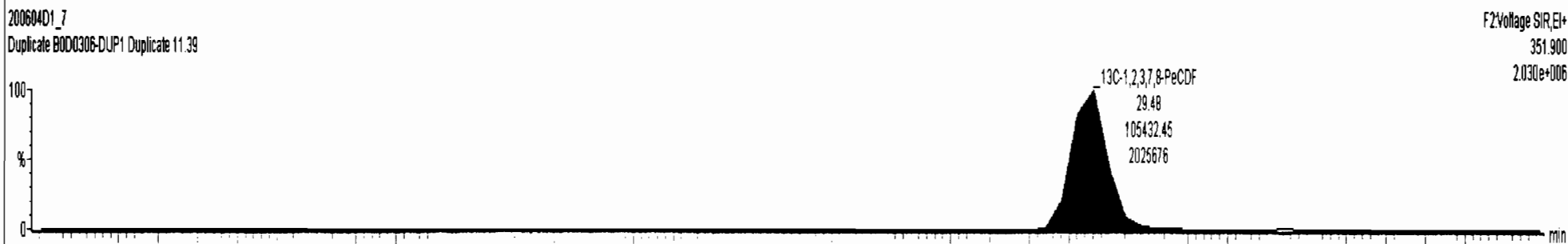
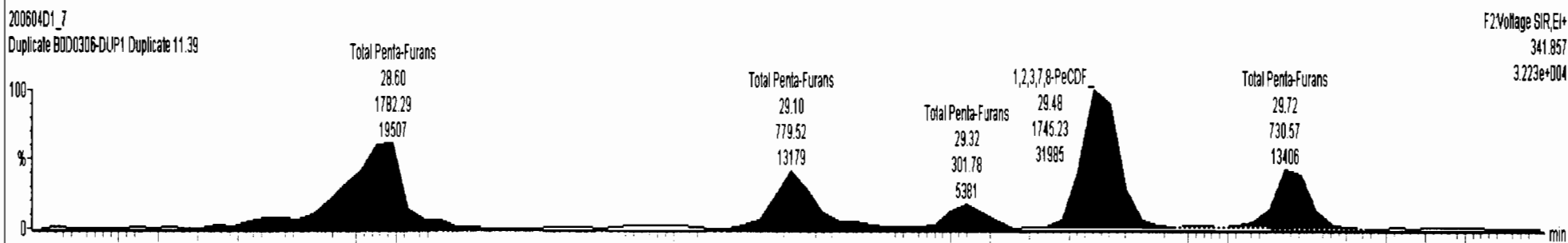
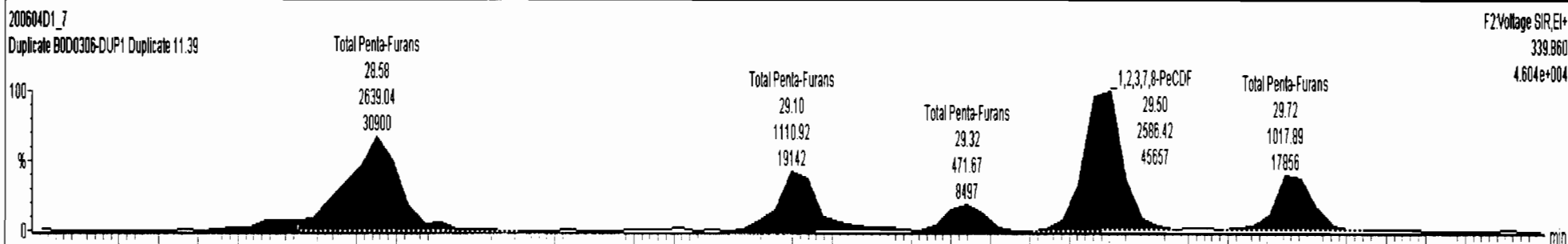


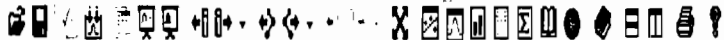
**DPE2**





200604D1\_7B.D00306.DUP1.Duplicate.11.39.Duplicate





200604D1\_7-EIC.MWDUP1.Duplicate 11.39.Duplicate

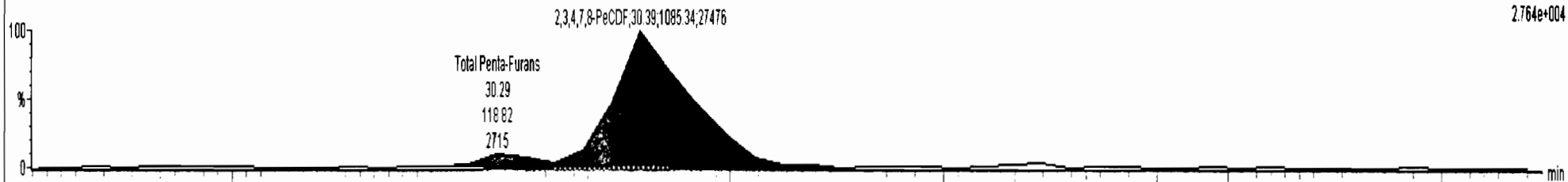
200604D1\_7

Duplicate BDD0306-DUP1 Duplicate 11.39

F2:Voltage SIR,EI+

339.860

2.764e+004



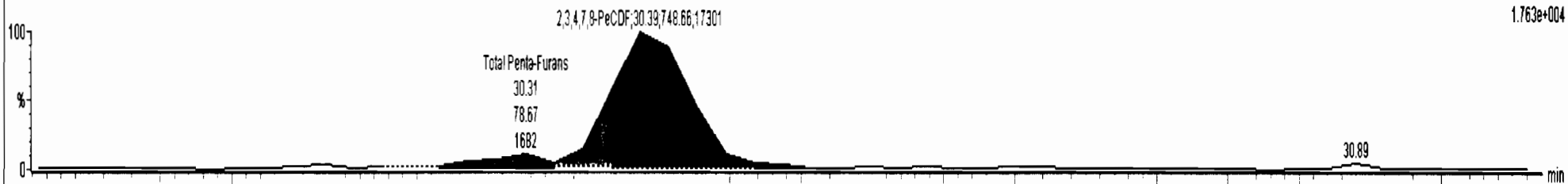
200604D1\_7

Duplicate BDD0306-DUP1 Duplicate 11.39

F2:Voltage SIR,EI+

341.857

1.763e+004



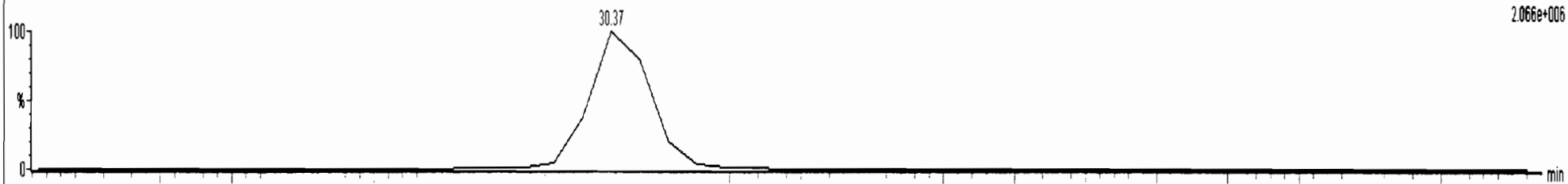
200604D1\_7

Duplicate BDD0306-DUP1 Duplicate 11.39

F2:Voltage SIR,EI+

351.900

2.066e+006



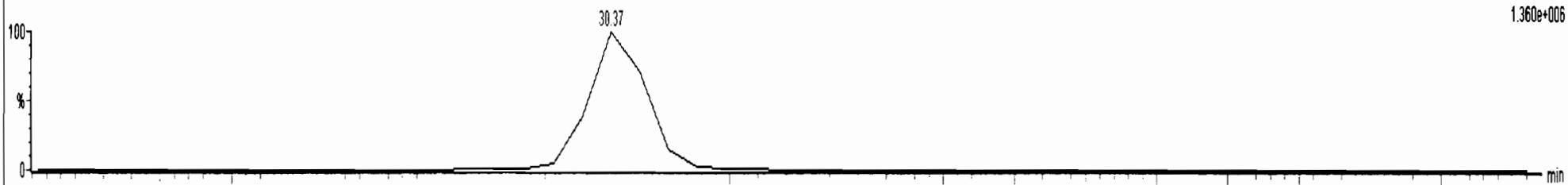
200604D1\_7

Duplicate BDD0306-DUP1 Duplicate 11.39

F2:Voltage SIR,EI+

353.897

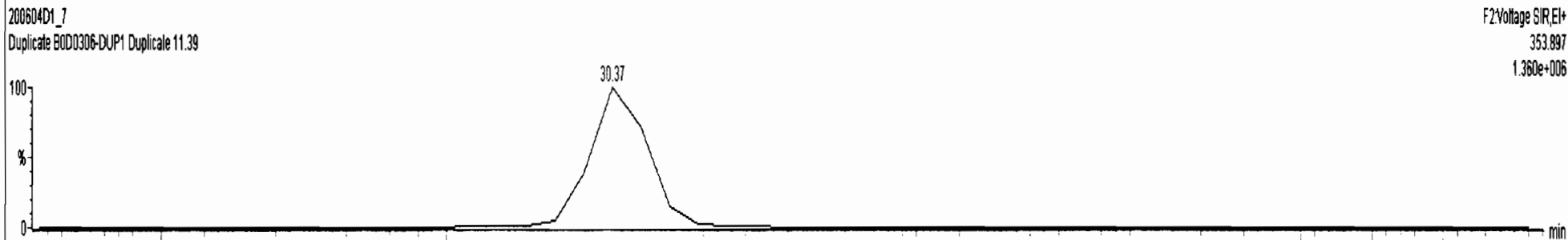
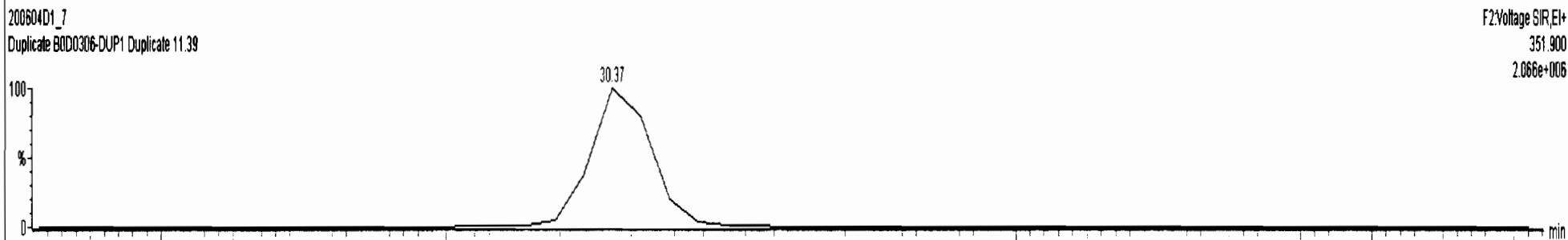
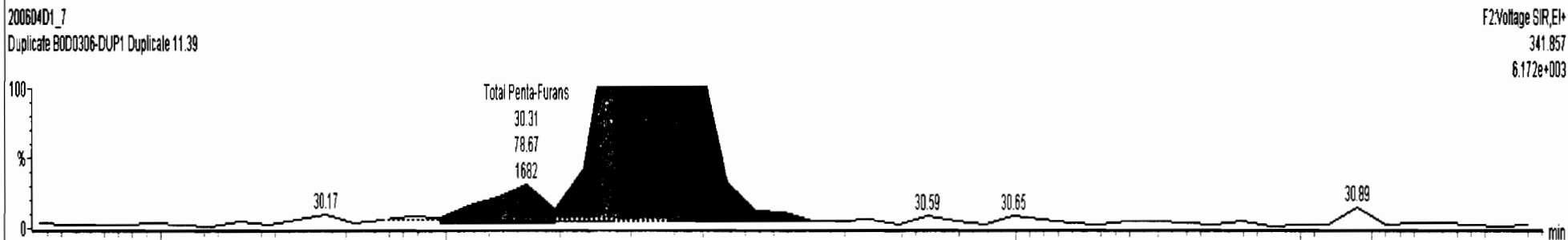
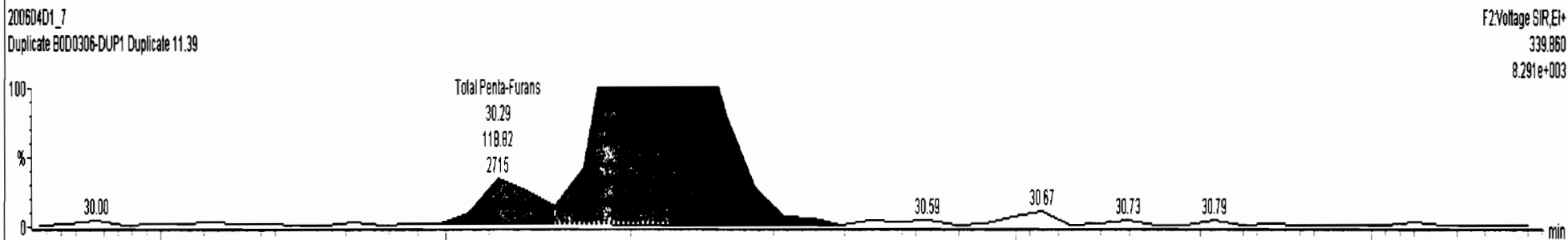
1.360e+006







20060401\_7 - B0D0306-DUP1 Duplicate 11.39 - Duplicate

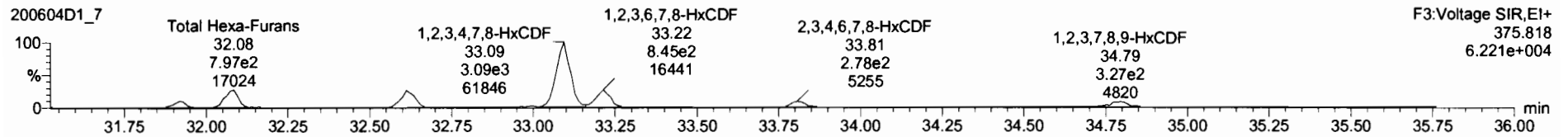
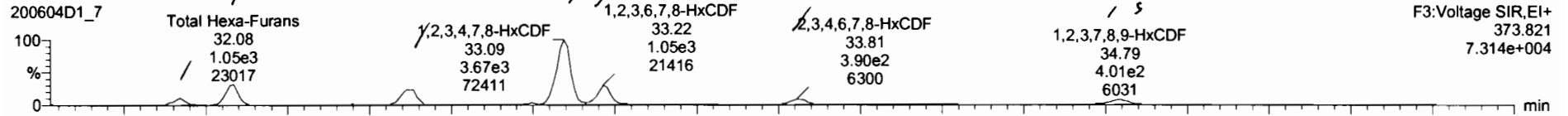


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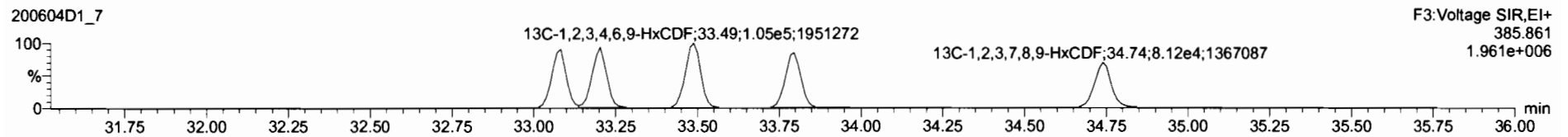
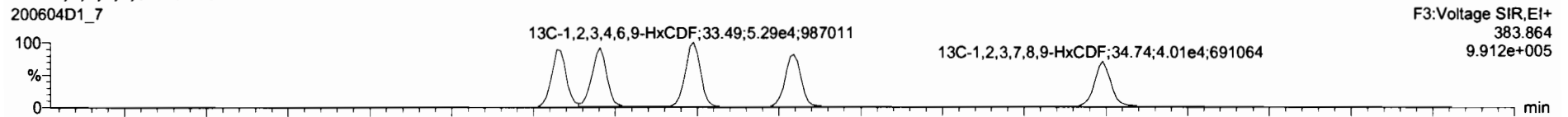
Last Altered: Friday, June 05, 2020 09:33:36 Pacific Daylight Time  
 Printed: Friday, June 05, 2020 09:43:55 Pacific Daylight Time

Name: 200604D1\_7, Date: 04-Jun-2020, Time: 16:31:15, ID: B0D0306-DUP1 Duplicate 11.39, Description: Duplicate

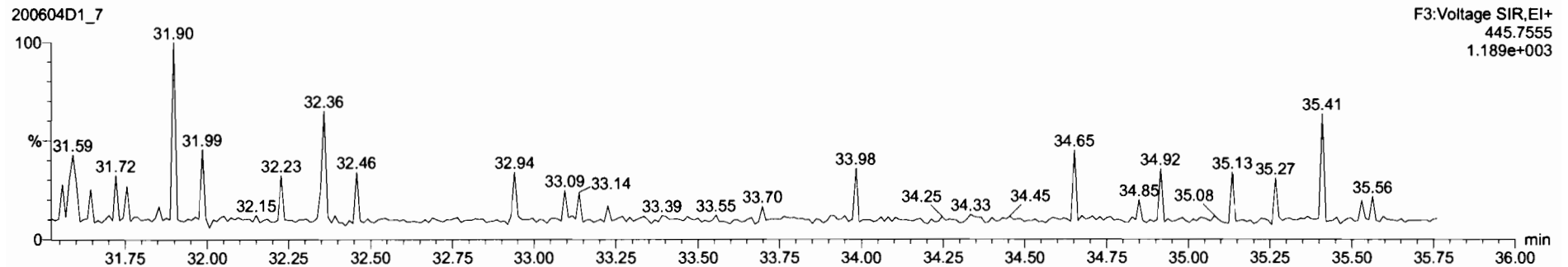
**1,2,3,4,7,8-HxCDF**

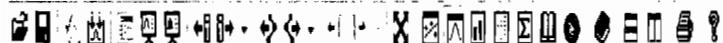


**13C-1,2,3,4,7,8-HxCDF**

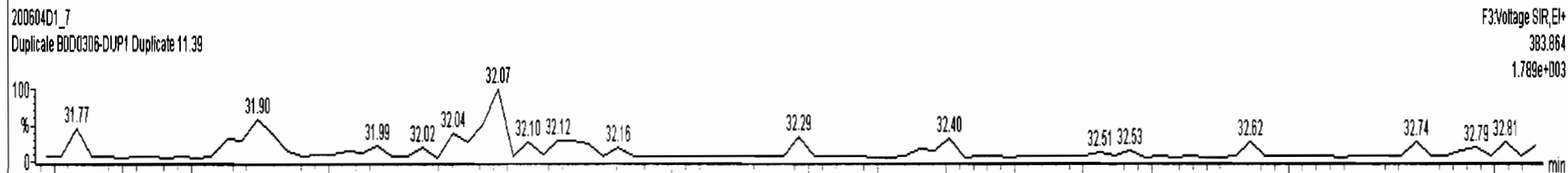
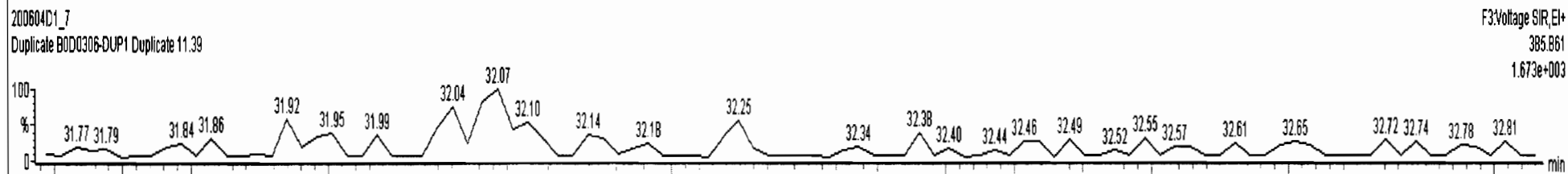
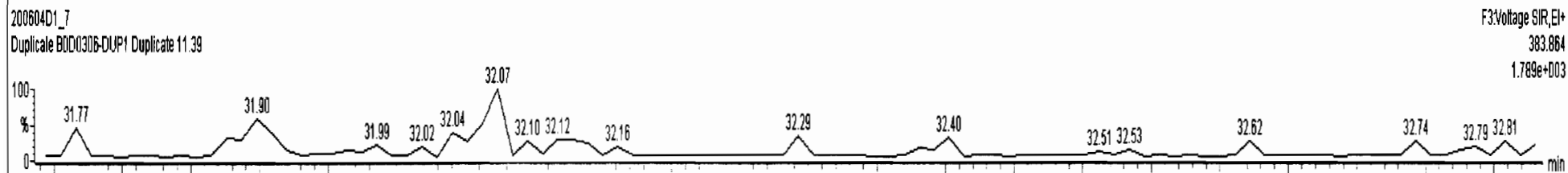
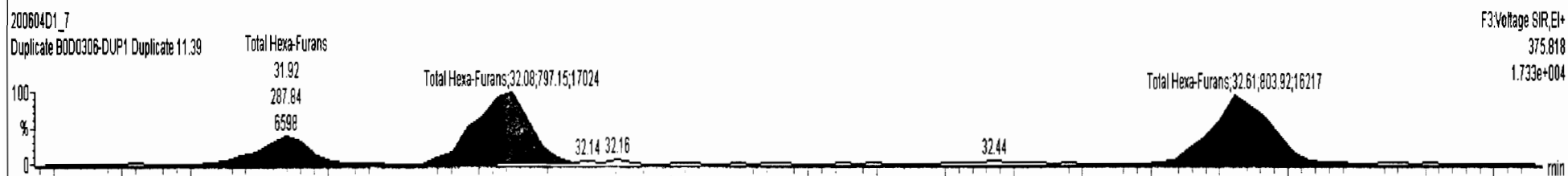
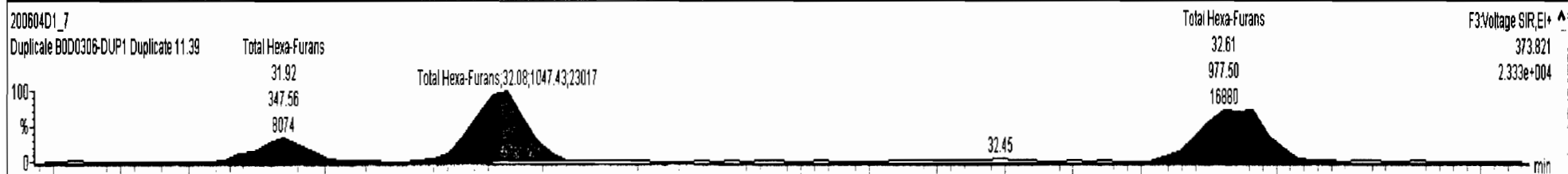


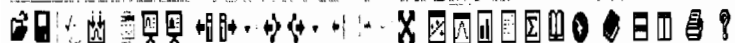
**DPE3**



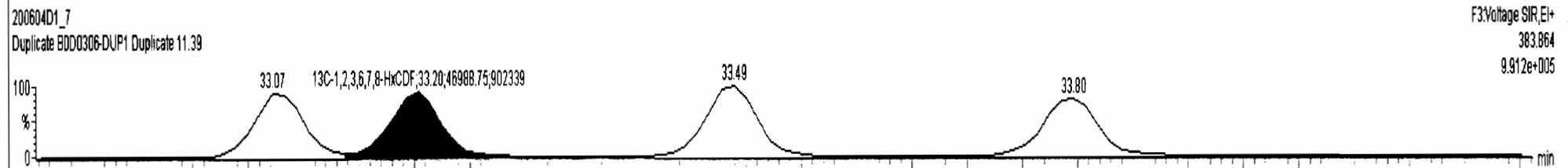
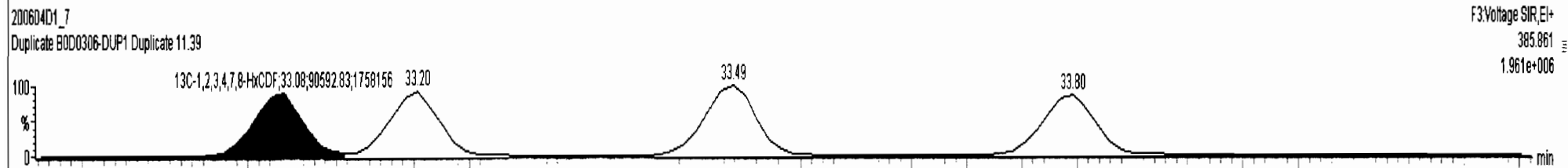
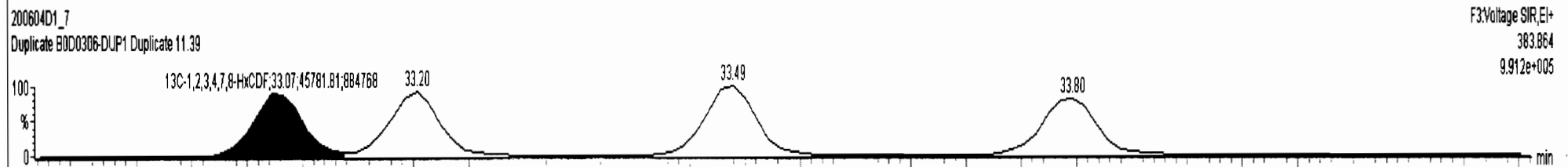


200604D1\_7 - BDD0306-DUP1 Duplicate 11.39 - Duplicate



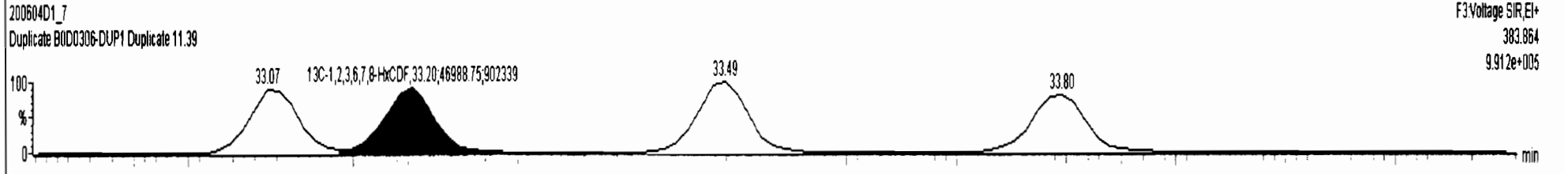
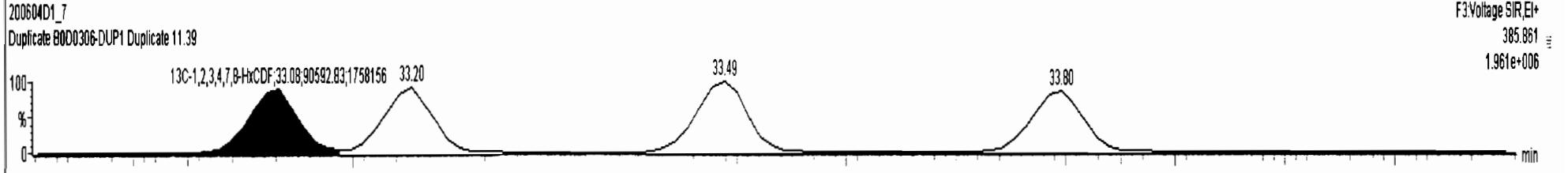
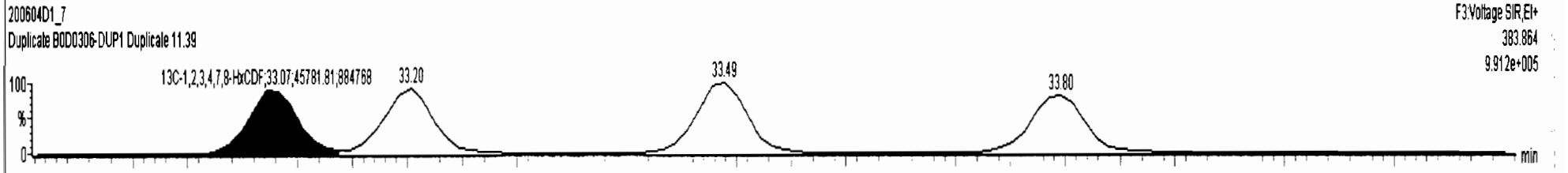
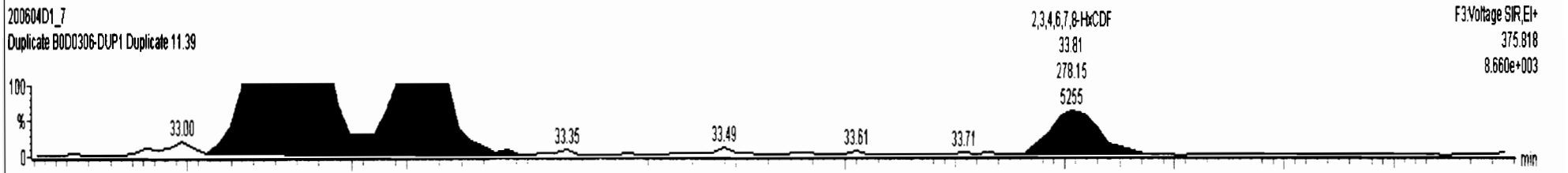
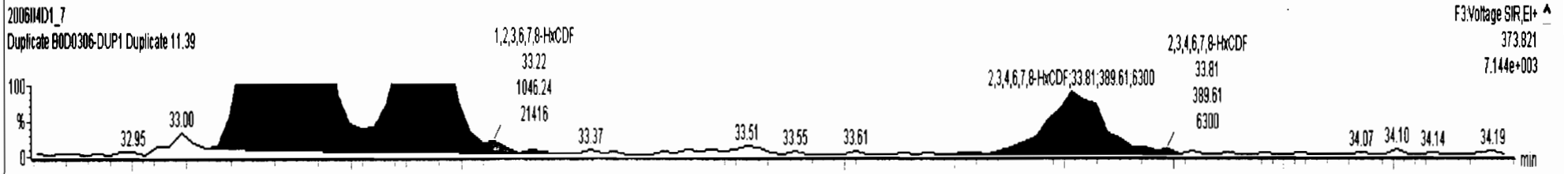


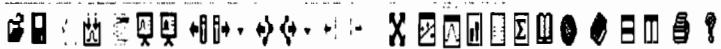
200604D1\_7 - BDD0306-DUP1 Duplicate 11.39 - Dup date



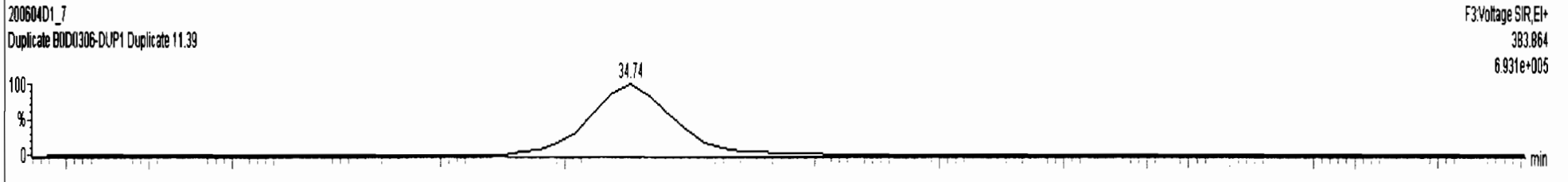
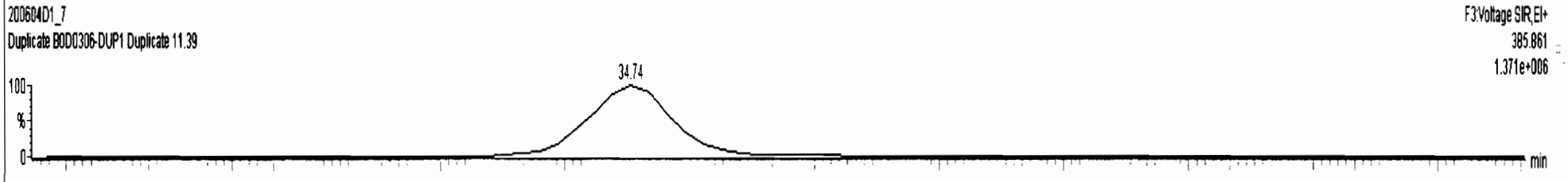
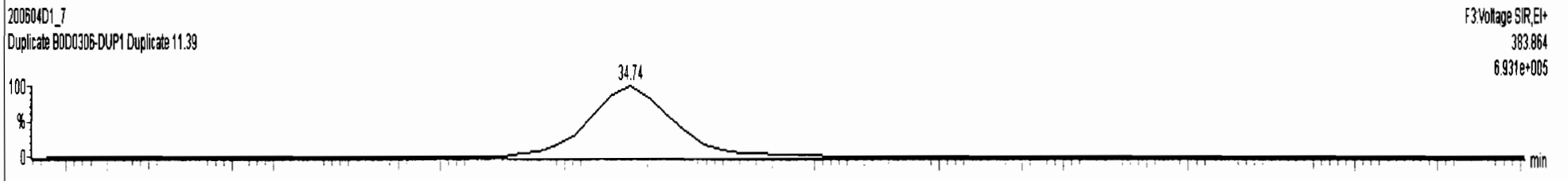
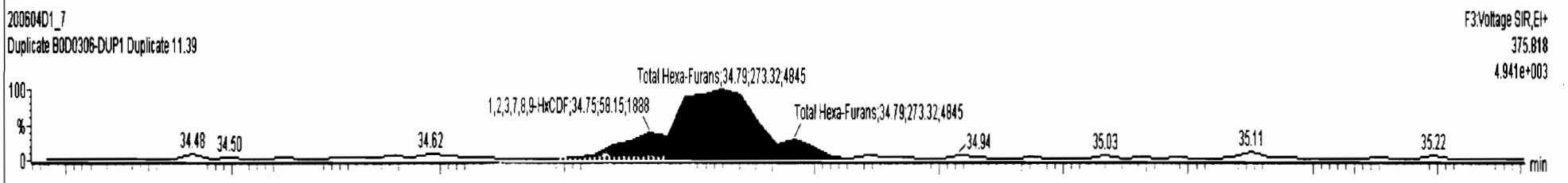
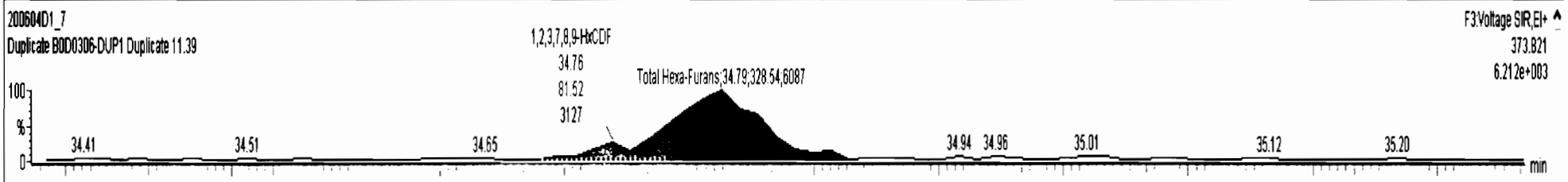


200604D1\_7-EIC-13C-DUP1 Duplicate 11.39-Duplicate





200604D1\_7-BOD0306-DUP1 Duplicate 11.39-Duplicate

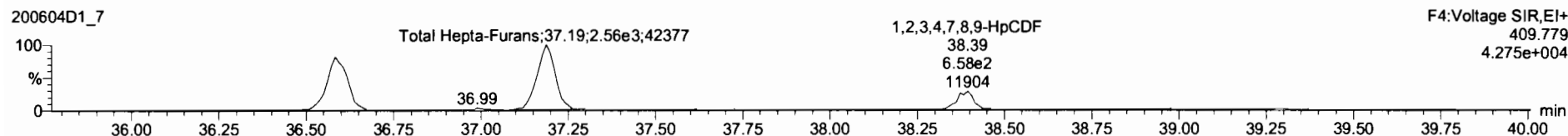
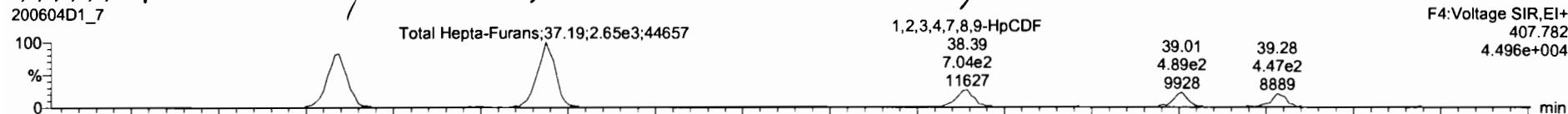


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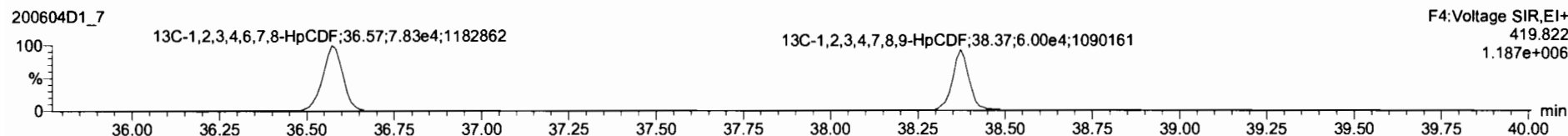
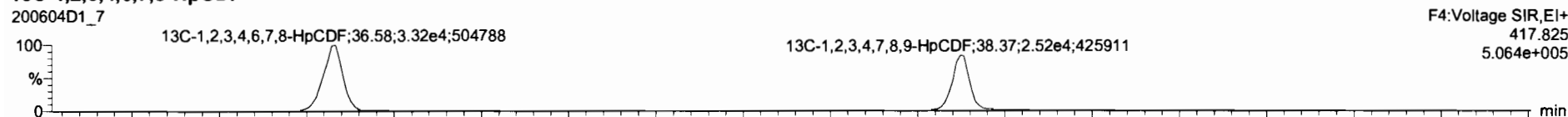
Last Altered: Friday, June 05, 2020 09:33:36 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:43:55 Pacific Daylight Time

Name: 200604D1\_7, Date: 04-Jun-2020, Time: 16:31:15, ID: B0D0306-DUP1 Duplicate 11.39, Description: Duplicate

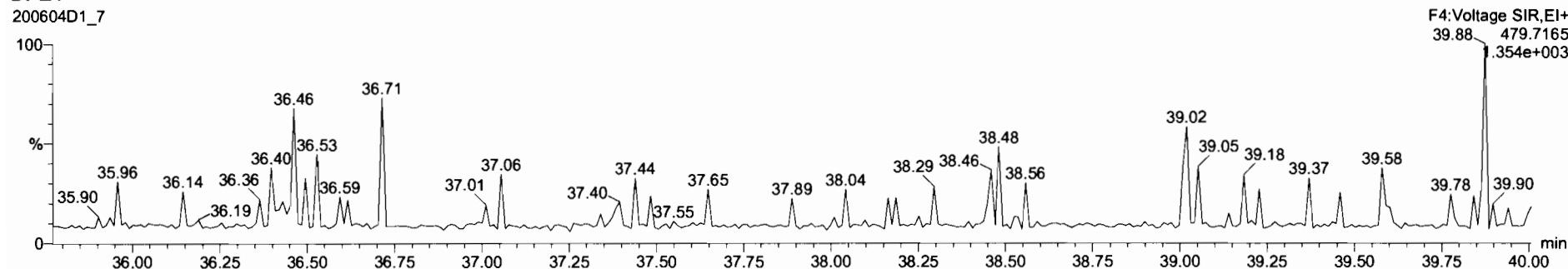
**1,2,3,4,6,7,8-HpCDF**



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



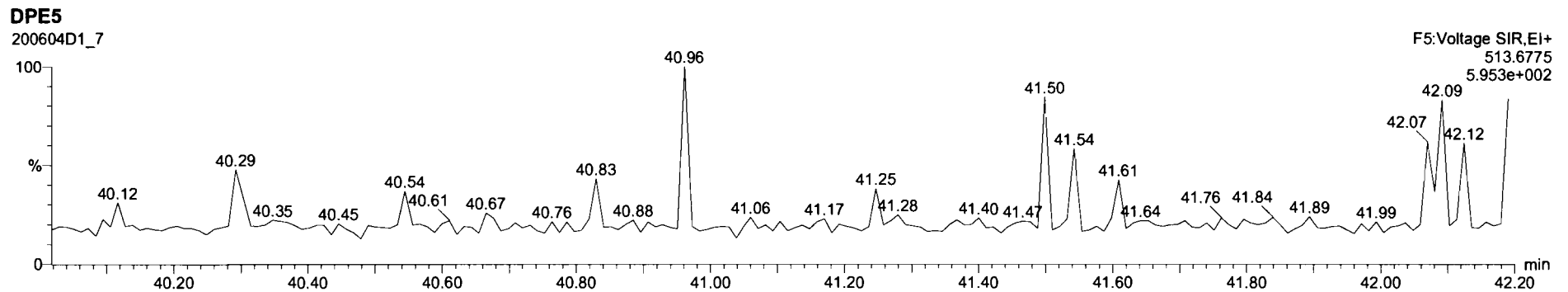
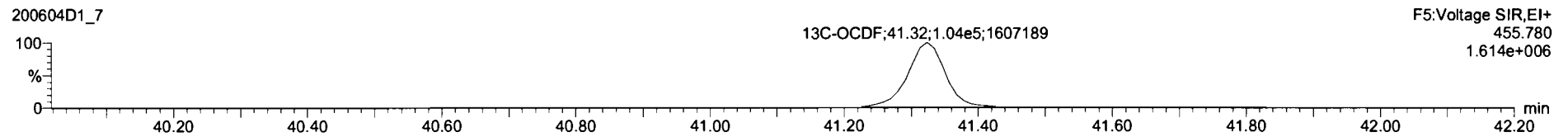
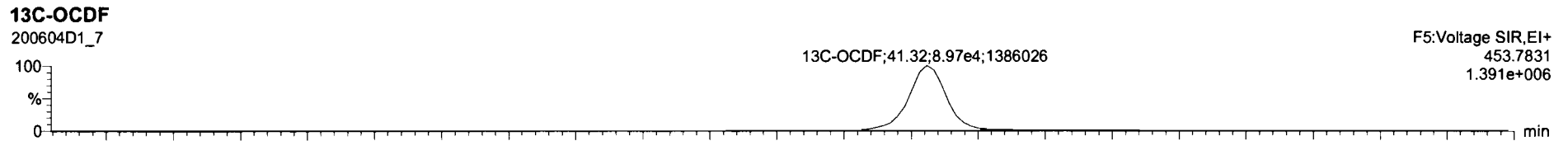
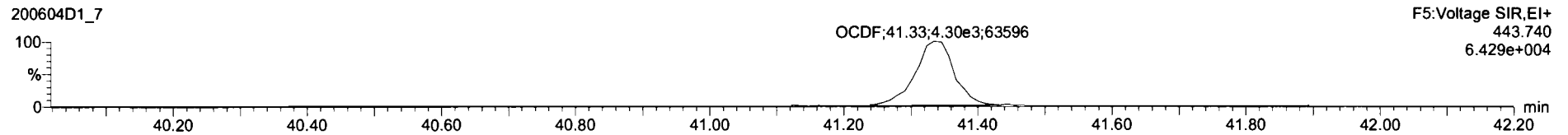
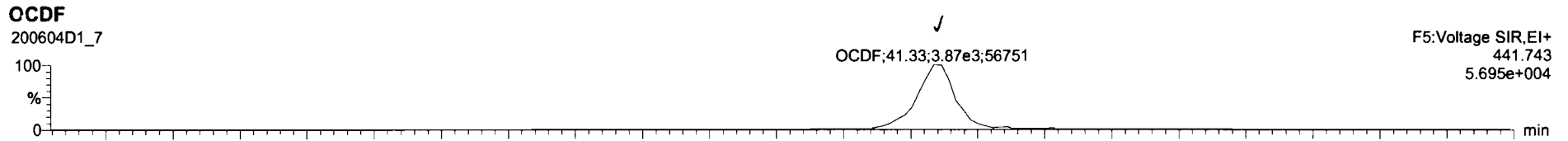
**DPE4**



Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_7.qld

Last Altered: Friday, June 05, 2020 09:33:36 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:43:55 Pacific Daylight Time

Name: 200604D1\_7, Date: 04-Jun-2020, Time: 16:31:15, ID: B0D0306-DUP1 Duplicate 11.39, Description: Duplicate

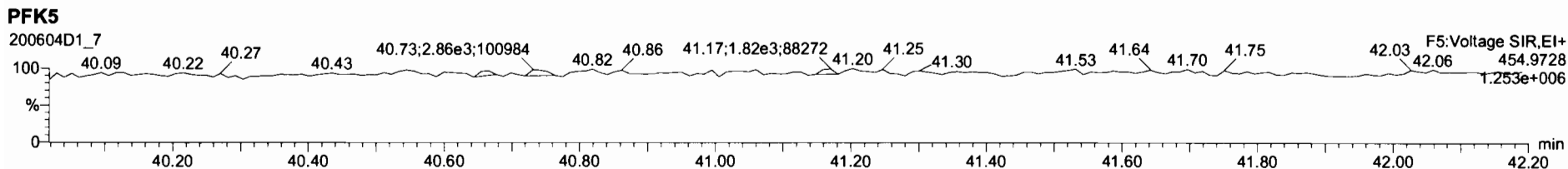
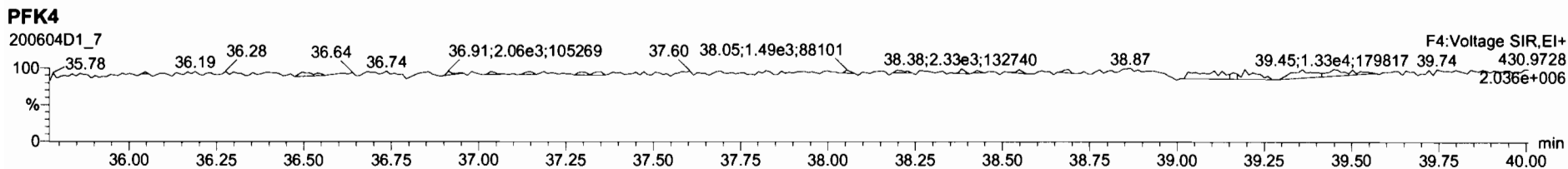
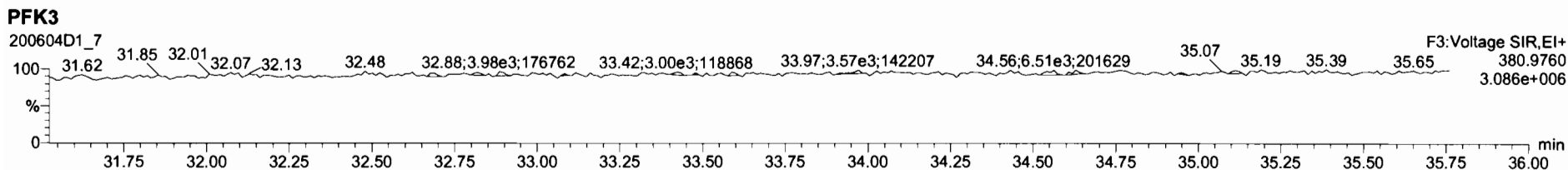
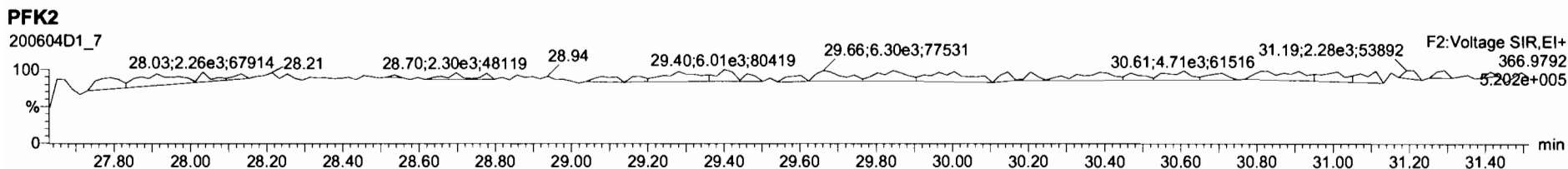
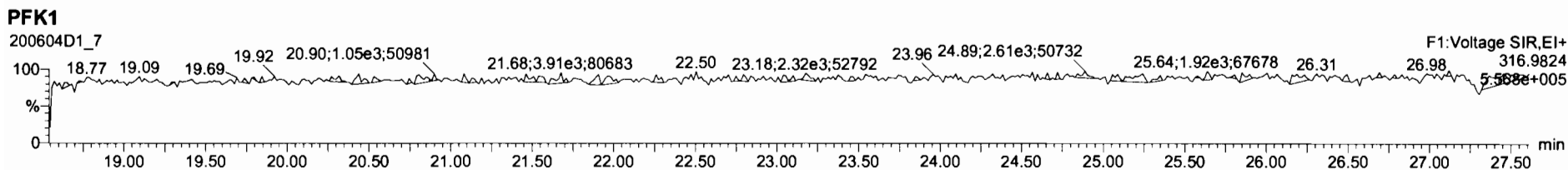




Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_7.qld

Last Altered: Friday, June 05, 2020 09:33:36 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:43:55 Pacific Daylight Time

Name: 200604D1\_7, Date: 04-Jun-2020, Time: 16:31:15, ID: B0D0306-DUP1 Duplicate 11.39, Description: Duplicate



Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_8.qld

Last Altered: Friday, June 05, 2020 12:12:36 Pacific Daylight Time  
Printed: Friday, June 05, 2020 12:13:50 Pacific Daylight Time

*DB 6/5/20 C104/05/2020*

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24  
Calibration: U:\VG7.PRO\CurveDB\5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200604D1\_8, Date: 04-Jun-2020, Time: 17:16:22, ID: 2000945-03 PDI-146SC-A-02-03-200426 12.11, Description: PDI-146SC-A-02-03-200426

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.987	10.024	26.142		1.001				0.120	
2	2 1,2,3,7,8-PeCDD			NO	0.982	10.024	30.670		1.001				0.133	
3	3 1,2,3,4,7,8-HxCDD			NO	1.17	10.024	33.982		1.000				0.168	
4	4 1,2,3,6,7,8-HxCDD			NO	1.04	10.024	34.082		1.000				0.174	
5	5 1,2,3,7,8,9-HxCDD			NO	1.00	10.024	34.401		1.001				0.181	
6	6 1,2,3,4,6,7,8-HpCDD	3.79e2	0.91	NO	0.992	10.024	37.856	37.87	1.000	1.001	0.71348		0.144	0.713
7	7 OCDD	2.37e3	0.89	NO	1.04	10.024	41.104	41.12	1.000	1.000	5.0466		0.191	5.05
8	8 2,3,7,8-TCDF			NO	0.882	10.024	25.341		1.001				0.0851	
9	9 1,2,3,7,8-PeCDF			NO	1.05	10.024	29.503		1.001				0.0630	
10	10 2,3,4,7,8-PeCDF			NO	1.06	10.024	30.397		1.001				0.0583	
11	11 1,2,3,4,7,8-HxCDF			NO	1.08	10.024	33.083		1.000				0.0732	
12	12 1,2,3,6,7,8-HxCDF			NO	1.04	10.024	33.214		1.000				0.0779	
13	13 2,3,4,6,7,8-HxCDF			NO	1.11	10.024	33.831		1.001				0.0768	
14	14 1,2,3,7,8,9-HxCDF	6.67e1	1.76	YES	1.06	10.024	34.740	34.73	1.000	1.000	0.087267		0.0564	0.0708
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.13	10.024	36.620		1.001				0.108	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.33	10.024	38.372		1.000				0.109	
17	17 OCDF			NO	0.933	10.024	41.324		1.000				0.154	
18	18 13C-2,3,7,8-TCDD	1.73e5	0.78	NO	1.21	10.024	26.210	26.11	1.026	1.022	183.99	92.2	0.358	
19	19 13C-1,2,3,7,8-PeCDD	1.36e5	0.65	NO	0.996	10.024	30.706	30.65	1.202	1.200	174.60	87.5	0.315	
20	20 13C-1,2,3,4,7,8-HxCDD	1.10e5	1.27	NO	0.679	10.024	33.958	33.97	1.014	1.014	193.55	97.0	0.604	
21	21 13C-1,2,3,6,7,8-HxCDD	1.34e5	1.29	NO	0.850	10.024	34.068	34.08	1.017	1.018	188.38	94.4	0.482	
22	22 13C-1,2,3,7,8,9-HxCDD	1.30e5	1.26	NO	0.798	10.024	34.340	34.37	1.025	1.026	194.19	97.3	0.513	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.07e5	1.03	NO	0.697	10.024	37.809	37.85	1.129	1.130	182.92	91.7	0.528	
24	24 13C-OCDD	1.81e5	0.89	NO	0.579	10.024	40.836	41.10	1.219	1.227	372.44	93.3	0.611	
25	25 13C-2,3,7,8-TCDF	2.18e5	0.75	NO	1.13	10.024	25.291	25.32	0.990	0.991	173.45	86.9	0.459	
26	26 13C-1,2,3,7,8-PeCDF	2.10e5	1.61	NO	0.996	10.024	29.524	29.48	1.156	1.154	188.92	94.7	0.695	
27	27 13C-2,3,4,7,8-PeCDF	2.04e5	1.61	NO	0.969	10.024	30.425	30.37	1.191	1.189	188.79	94.6	0.714	
28	28 13C-1,2,3,4,7,8-HxCDF	1.64e5	0.49	NO	1.06	10.024	33.087	33.08	0.988	0.988	185.16	92.8	0.593	
29	29 13C-1,2,3,6,7,8-HxCDF	1.71e5	0.49	NO	1.18	10.024	33.221	33.20	0.992	0.991	173.07	86.7	0.534	
30	30 13C-2,3,4,6,7,8-HxCDF	1.63e5	0.50	NO	1.06	10.024	33.794	33.80	1.009	1.009	184.28	92.4	0.594	
31	31 13C-1,2,3,7,8,9-HxCDF	1.44e5	0.48	NO	0.879	10.024	34.695	34.74	1.036	1.037	195.67	98.1	0.714	

Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_8.qld

Last Altered: Friday, June 05, 2020 12:12:36 Pacific Daylight Time

Printed: Friday, June 05, 2020 12:13:50 Pacific Daylight Time

Name: 200604D1\_8, Date: 04-Jun-2020, Time: 17:16:22, ID: 2000945-03 PDI-146SC-A-02-03-200426 12.11, Description: PDI-146SC-A-02-03-200426

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.32e5	0.42	NO	0.893	10.024	36.403	36.58	1.087	1.092	176.58	88.5	0.648	
33	33 13C-1,2,3,4,7,8,9-HpCDF	9.91e4	0.44	NO	0.613	10.024	38.412	38.37	1.147	1.146	192.60	96.5	0.943	
34	34 13C-OCDF	2.28e5	0.85	NO	0.741	10.024	40.991	41.32	1.224	1.234	367.56	92.1	0.442	
35	35 37Cl-2,3,7,8-TCDD	6.82e4			1.18	10.024	26.208	26.13	1.026	1.023	74.061	92.8	0.100	
36	36 13C-1,2,3,4-TCDD	1.56e5	0.78	NO	1.00	10.024	25.480	25.55	1.000	1.000	199.52	100	0.432	
37	37 13C-1,2,3,4-TCDF	2.22e5	0.78	NO	1.00	10.024	24.020	24.09	1.000	1.000	199.52	100	0.517	
38	38 13C-1,2,3,4,6,9-HxCDF	1.67e5	0.50	NO	1.00	10.024	33.530	33.49	1.000	1.000	199.52	100	0.628	
39	39 Total Tetra-Dioxins				0.987	10.024	24.620		0.000		0.00000		0.0838	0.111
40	40 Total Penta-Dioxins				0.982	10.024	29.960		0.000				0.0563	
41	41 Total Hexa-Dioxins				1.04	10.024	33.635		0.000		0.49288		0.179	0.636
42	42 Total Hepta-Dioxins				0.992	10.024	37.640		0.000		1.9013		0.144	1.90
43	43 Total Tetra-Furans				0.882	10.024	23.610		0.000				0.0380	
44	44 1st Func. Penta-Furans				1.05	10.024	27.090		0.000				0.0164	
45	45 Total Penta-Furans				1.05	10.024	29.275		0.000				0.0278	
46	46 Total Hexa-Furans				1.11	10.024	33.555		0.000		0.00000		0.0458	0.0708
47	47 Total Hepta-Furans				1.13	10.024	37.835		0.000				0.0635	

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_8.qld

Last Altered: Friday, June 05, 2020 12:12:36 Pacific Daylight Time

Printed: Friday, June 05, 2020 12:13:50 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24

Calibration: U:\VG7.PRO\CurveDB\5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200604D1\_8, Date: 04-Jun-2020, Time: 17:16:22, ID: 2000945-03 PDI-146SC-A-02-03-200426 12.11, Description: PDI-146SC-A-02-03-200426

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.25	8.360e2	9.500e2	5.256e1	5.363e1	0.98	YES	0.000e0	0.00000	0.11069	0.0838

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.46	3.193e3	3.320e3	1.670e2	1.524e2	1.10	NO	3.194e2	0.49288	0.49288	0.179
2	Total Hexa-Dioxins	33.30	1.023e3	1.378e3	5.145e1	5.738e1	0.90	YES	0.000e0	0.00000	0.14342	0.179

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.99	4.619e3	4.494e3	2.984e2	3.326e2	0.90	NO	6.310e2	1.1878	1.1878	0.144
2	1,2,3,4,6,7,8-HpCDD	37.87	4.039e3	2.996e3	1.810e2	1.980e2	0.91	NO	3.790e2	0.71348	0.71348	0.144

**Tetra-Furans**

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

**Penta-Furans function 1**

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

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_8.qld

Last Altered: Friday, June 05, 2020 12:12:36 Pacific Daylight Time

Printed: Friday, June 05, 2020 12:13:50 Pacific Daylight Time

Name: 200604D1\_8, Date: 04-Jun-2020, Time: 17:16:22, ID: 2000945-03 PDI-146SC-A-02-03-200426 12.11, Description: PDI-146SC-A-02-03-200426

**Penta-Furans**

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

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8,9-HxCDF	34.73	1.000e3	6.610e2	4.254e1	2.415e1	1.76	YES	6.669e1	0.00000	0.070800	0.0584

**Hepta-Furans**

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

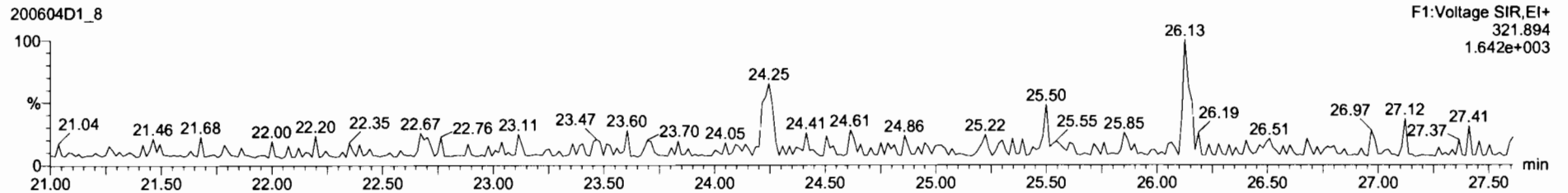
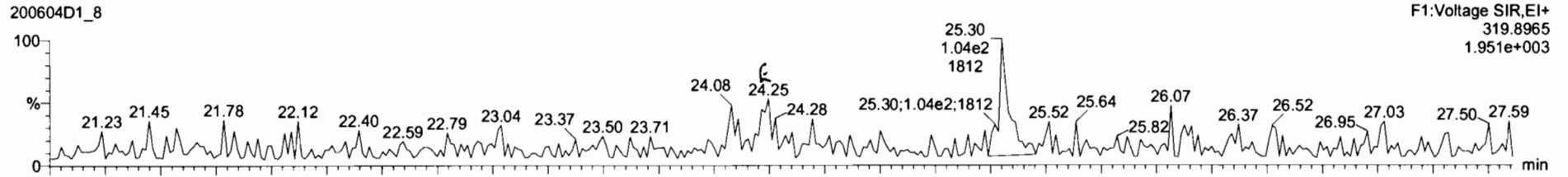
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Last Altered: Friday, June 05, 2020 09:34:31 Pacific Daylight Time  
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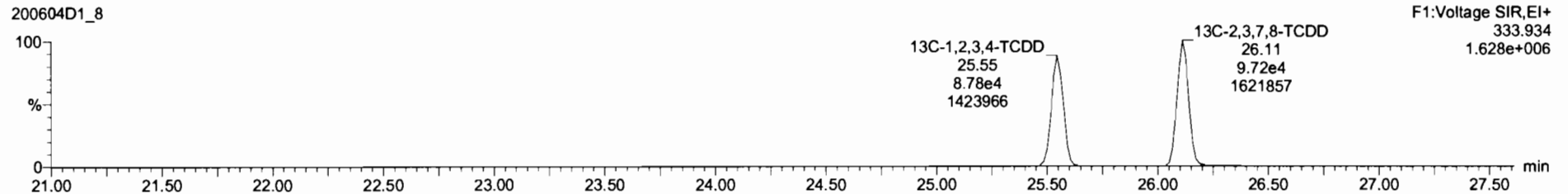
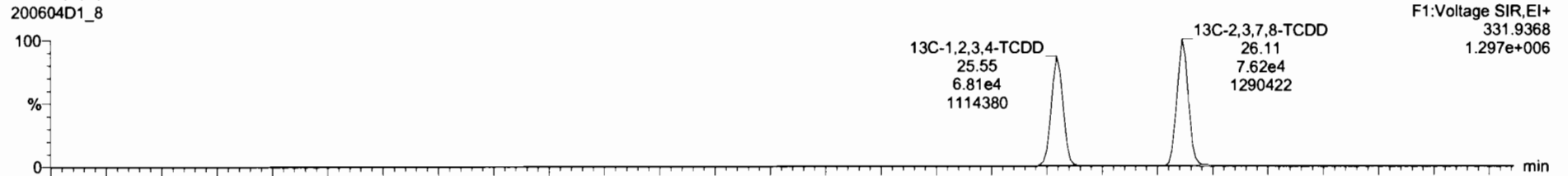
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Name: 200604D1\_8, Date: 04-Jun-2020, Time: 17:16:22, ID: 2000945-03 PDI-146SC-A-02-03-200426 12.11, Description: PDI-146SC-A-02-03-200426

2,3,7,8-TCDD

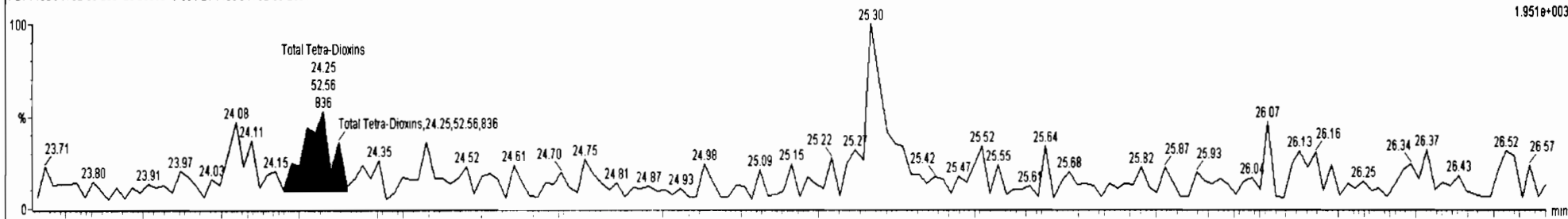


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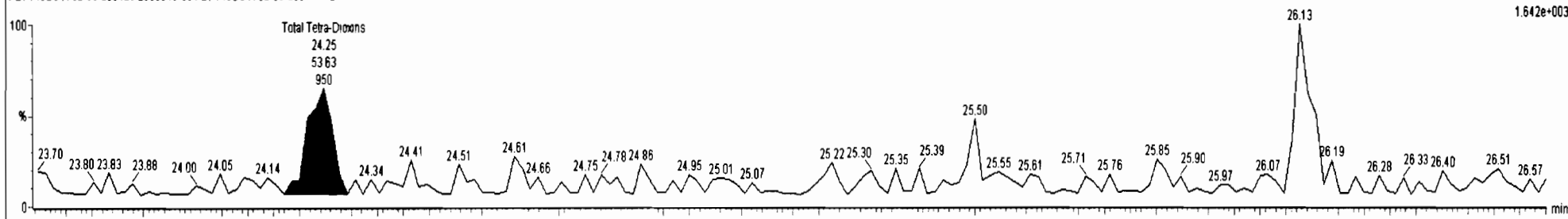
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PDI-146SC-A-02-03-200426 2000945-03 PDI-146SC-A-02-03-200426 12.11

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1.951e+003



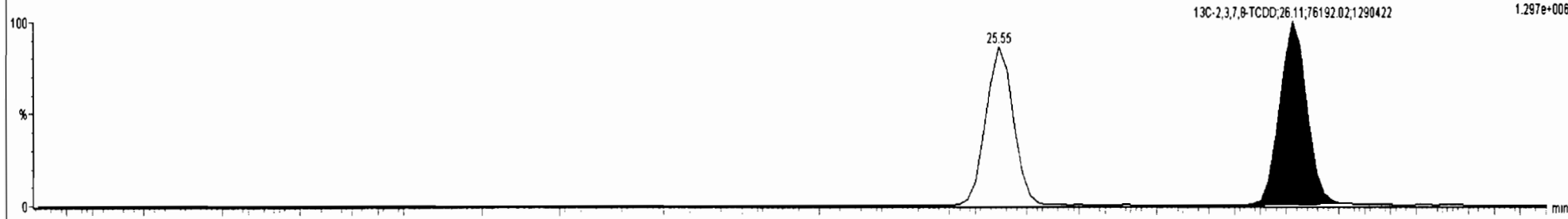
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PDI-146SC-A-02-03-200426 2000945-03 PDI-146SC-A-02-03-200426 12.11

F1:Voltage SIR,EI+  
321.894  
1.642e+003



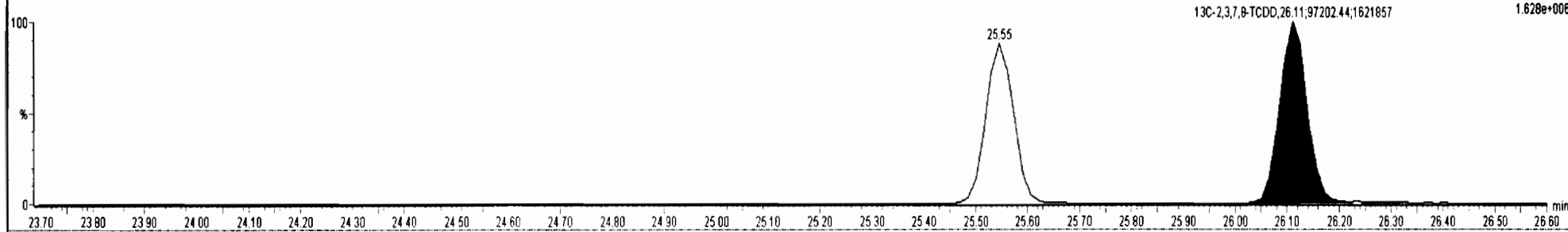
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F1:Voltage SIR,EI+  
331.9368  
1.297e+006



200604D1\_B  
PDI-146SC-A-02-03-200426 2000945-03 PDI-146SC-A-02-03-200426 12.11

F1:Voltage SIR,EI+  
333.934  
1.628e+006

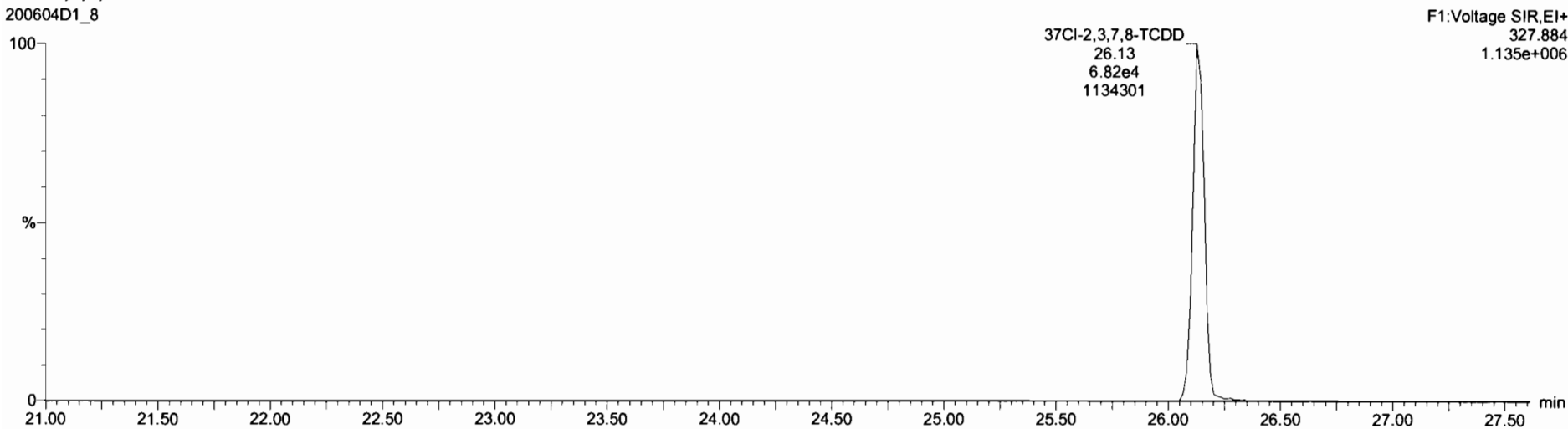


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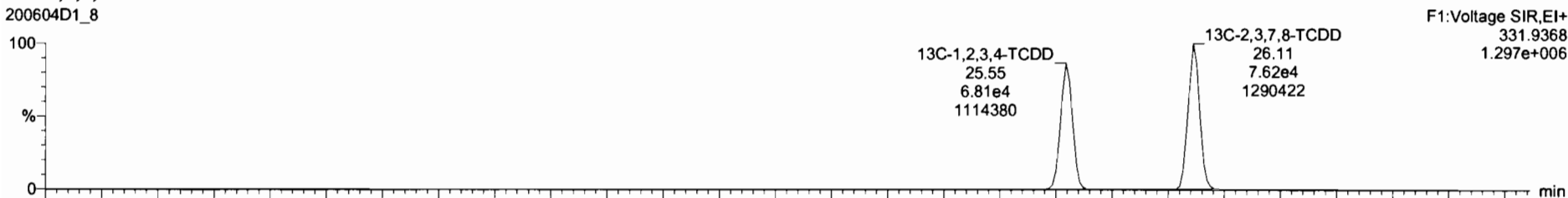
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Name: 200604D1\_8, Date: 04-Jun-2020, Time: 17:16:22, ID: 2000945-03 PDI-146SC-A-02-03-200426 12.11, Description: PDI-146SC-A-02-03-200426

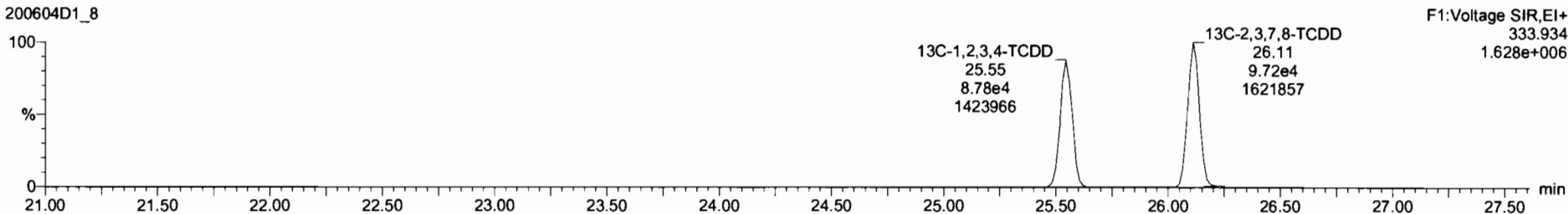
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200604D1\_8



13C-1,2,3,4-TCDD  
200604D1\_8



200604D1\_8





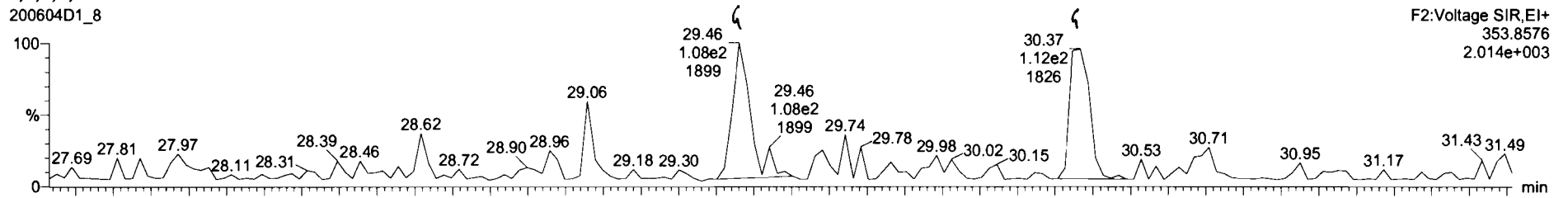
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Printed: Friday, June 05, 2020 09:44:14 Pacific Daylight Time

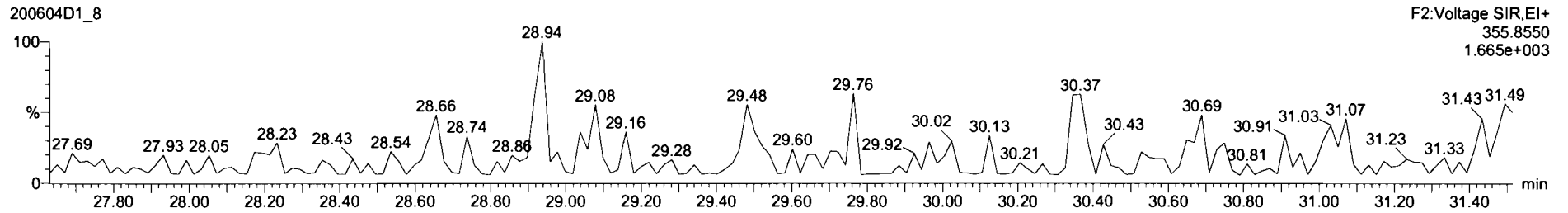
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1,2,3,7,8-PeCDD

200604D1\_8

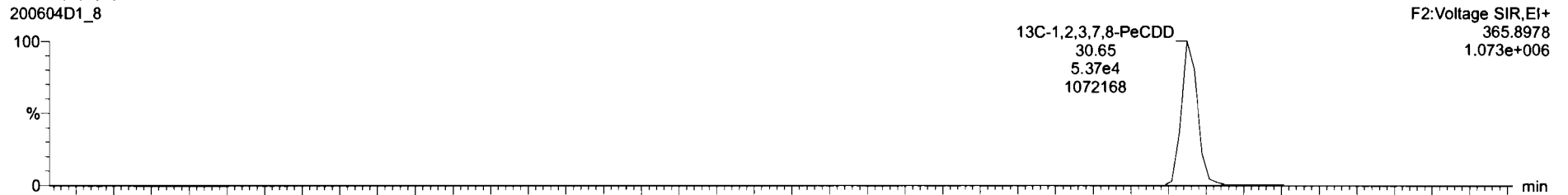


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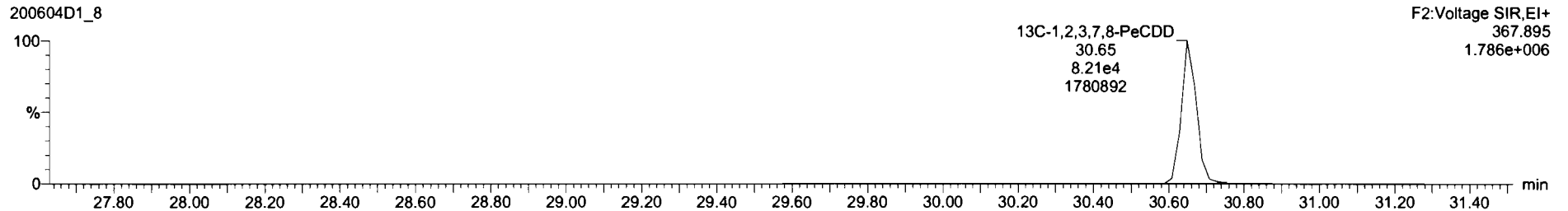


13C-1,2,3,7,8-PeCDD

200604D1\_8



200604D1\_8

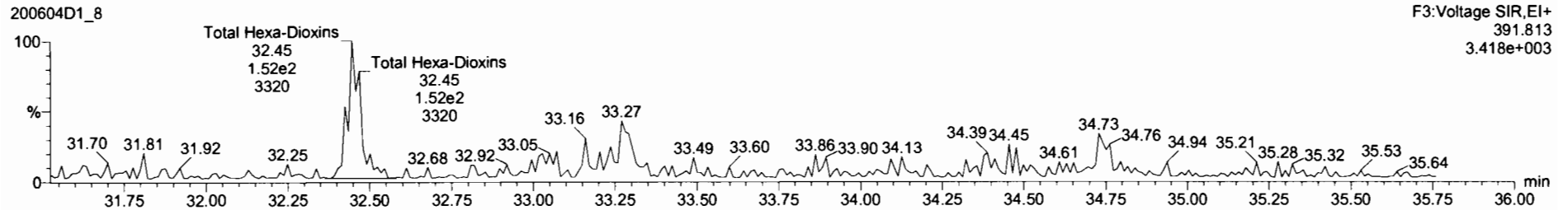
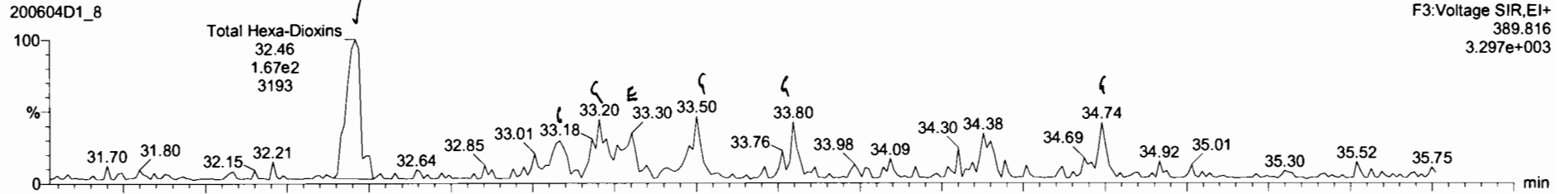


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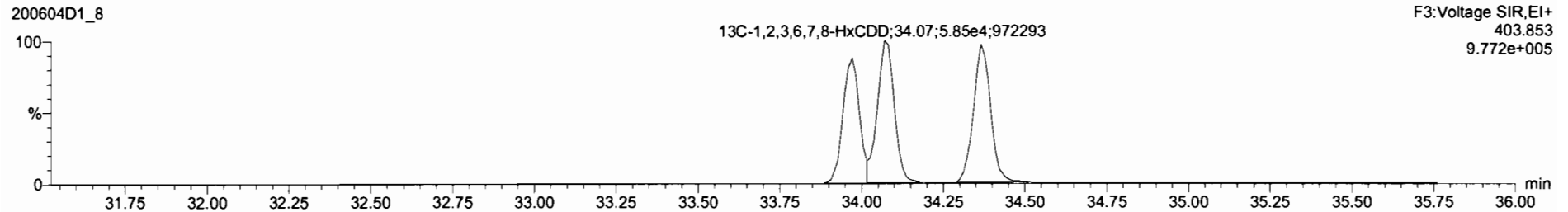
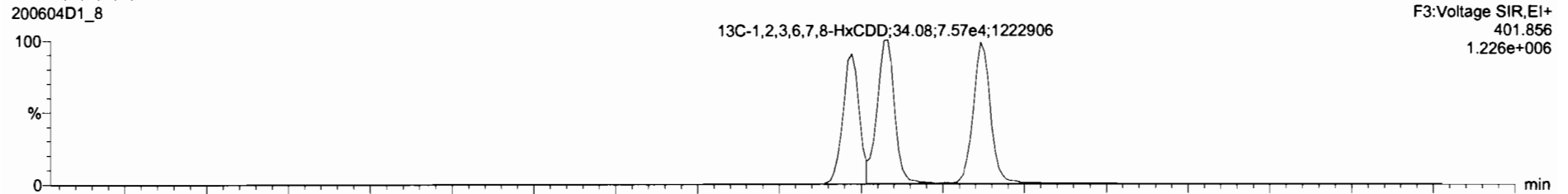
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1,2,3,4,7,8-HxCDD

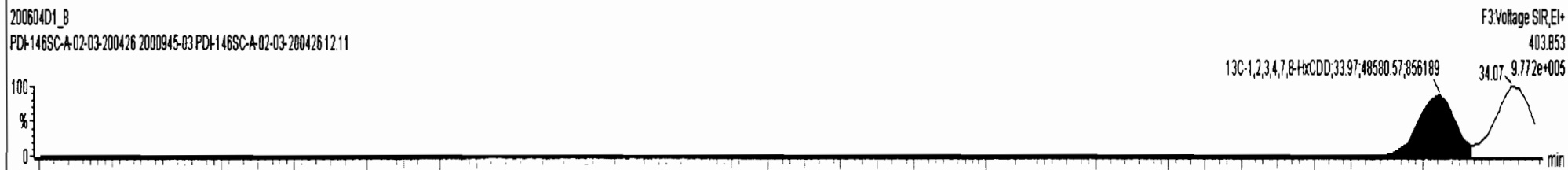
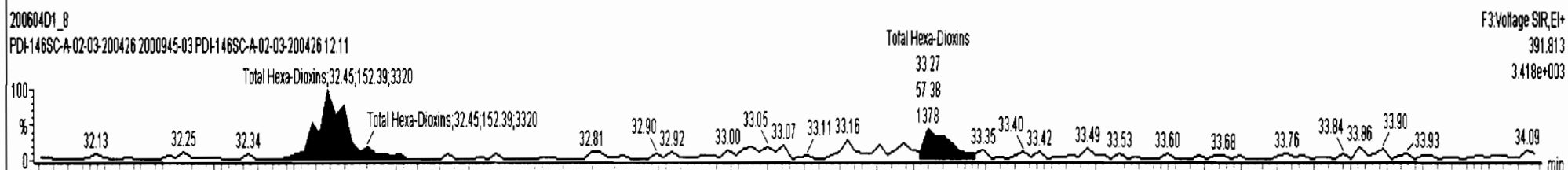
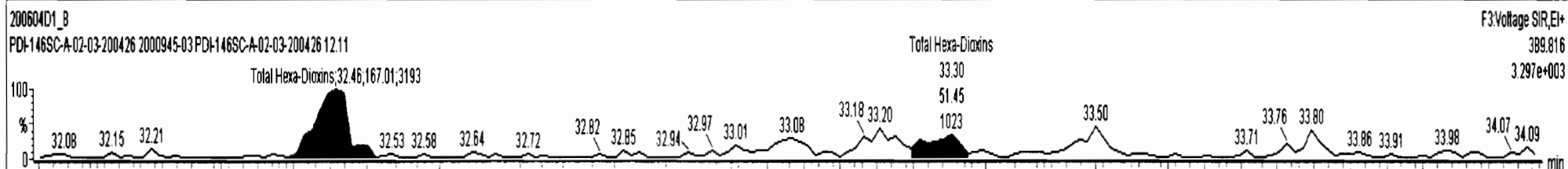


13C-1,2,3,4,7,8-HxCDD





200604D1\_8-2000945-03-PDI-146SC-A-02-03-200426 12.11 - PDI-146SC-A-02-03-200426

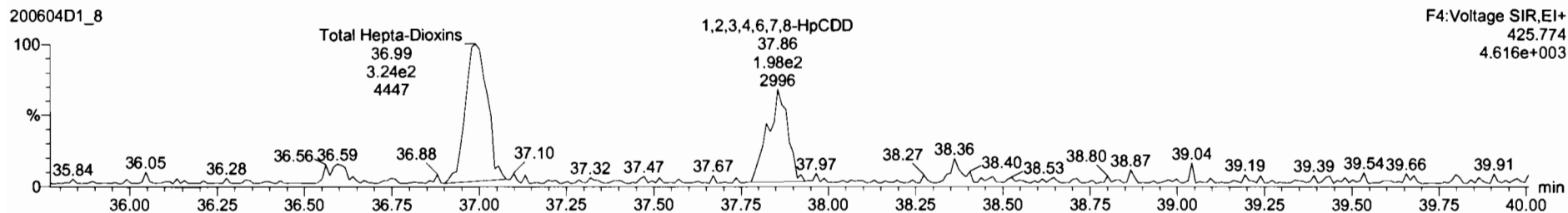
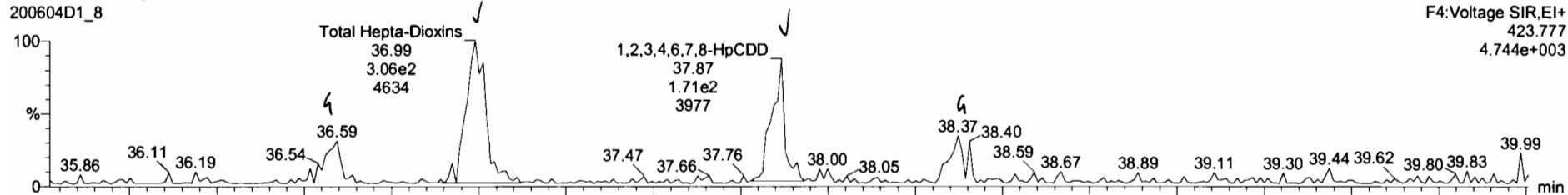


Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_8.qld

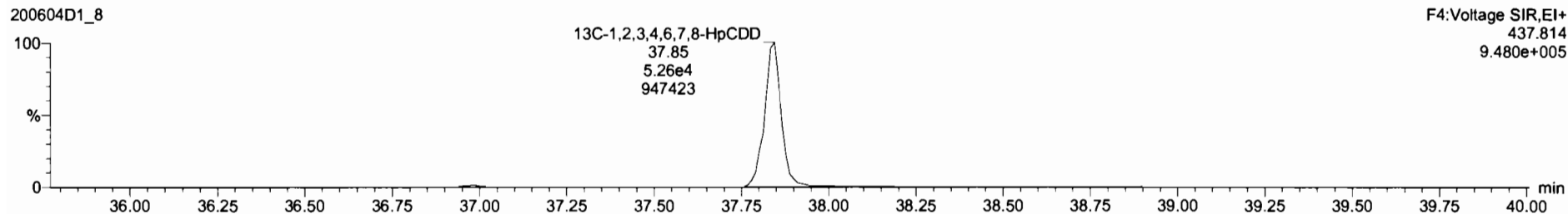
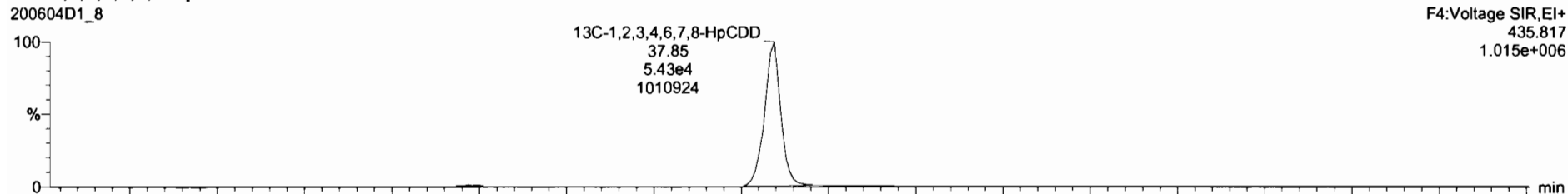
Last Altered: Friday, June 05, 2020 09:34:31 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:44:14 Pacific Daylight Time

Name: 200604D1\_8, Date: 04-Jun-2020, Time: 17:16:22, ID: 2000945-03 PDI-146SC-A-02-03-200426 12.11, Description: PDI-146SC-A-02-03-200426

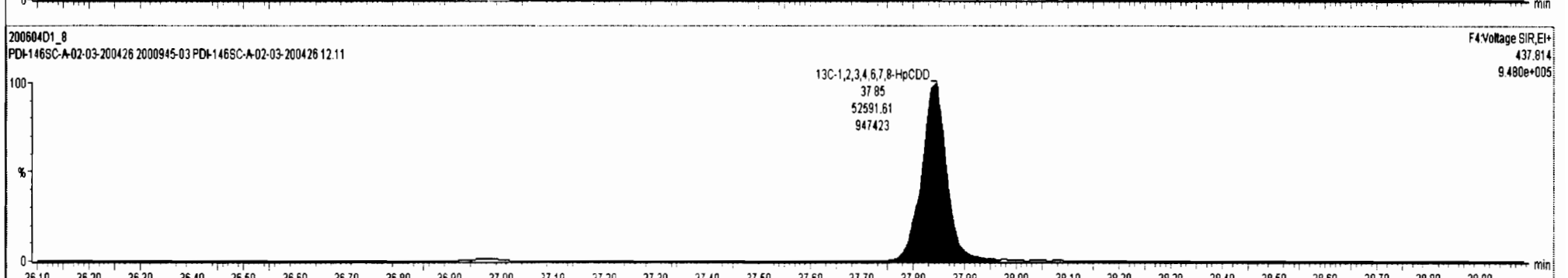
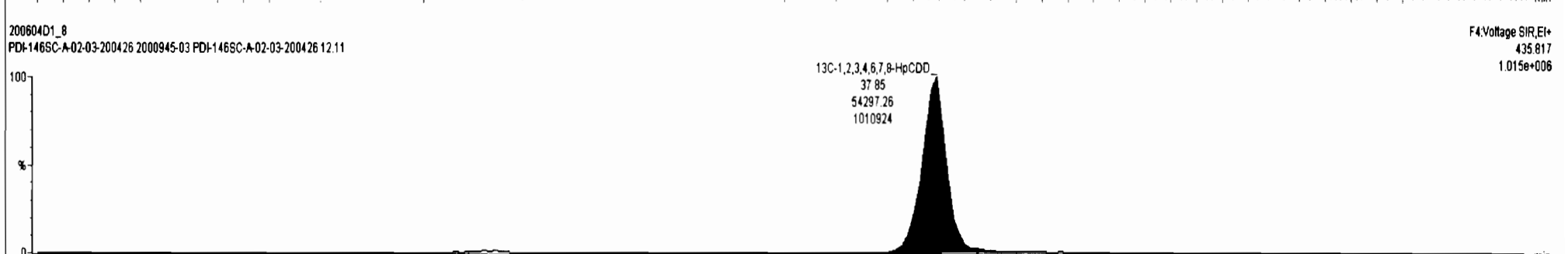
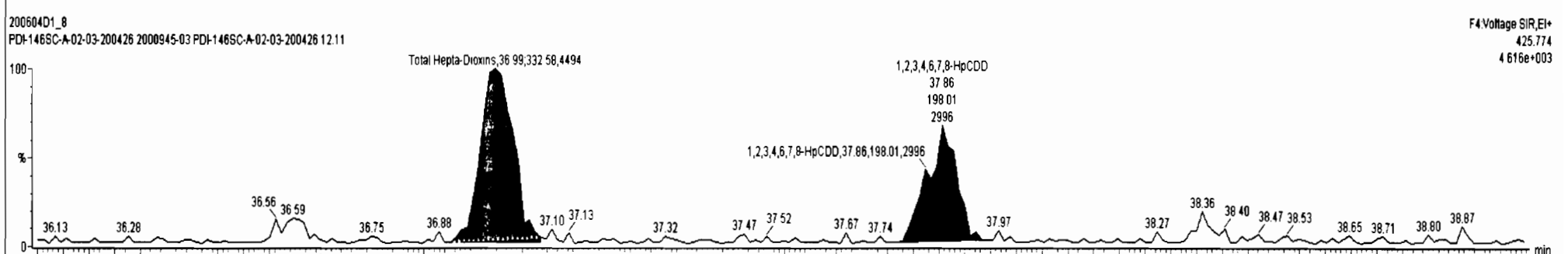
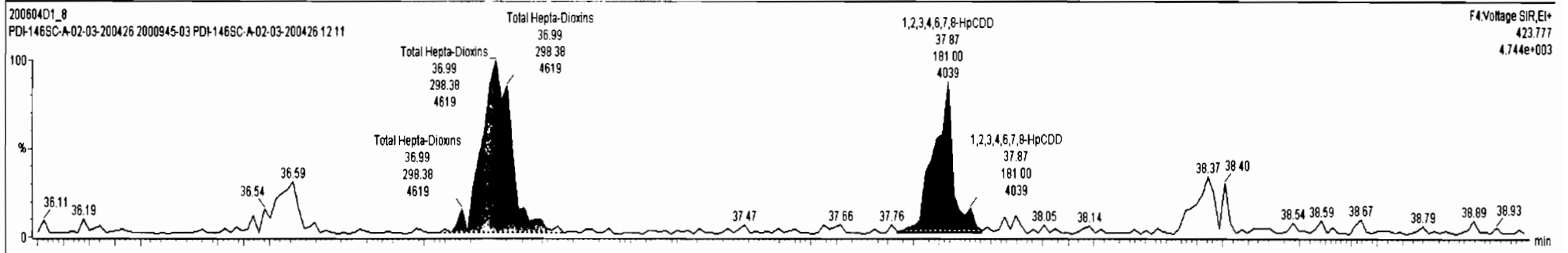
1,2,3,4,6,7,8-HpCDD



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



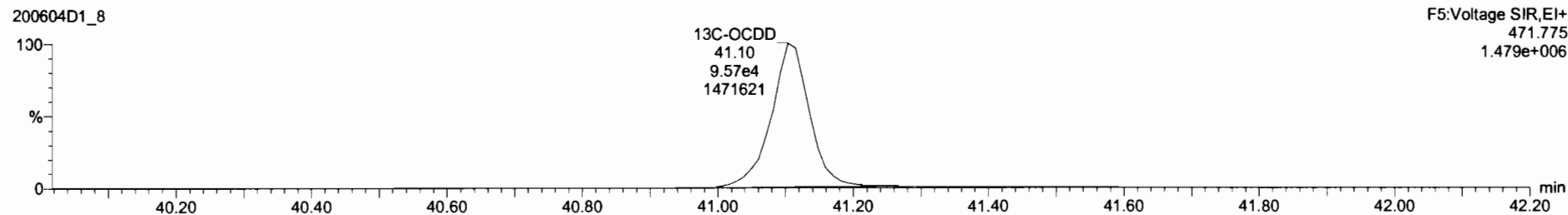
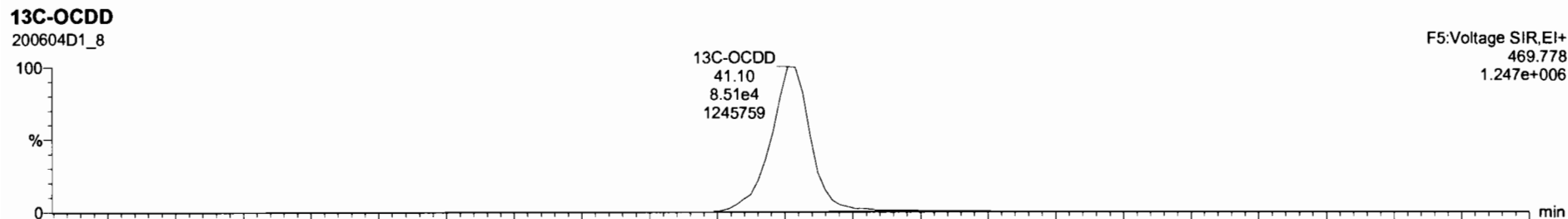
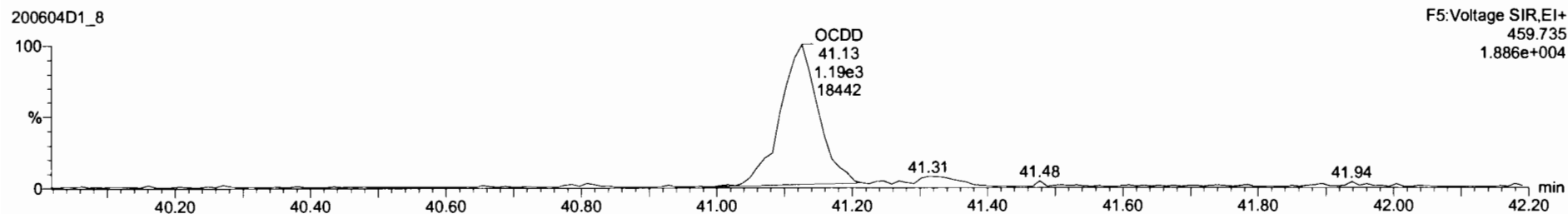
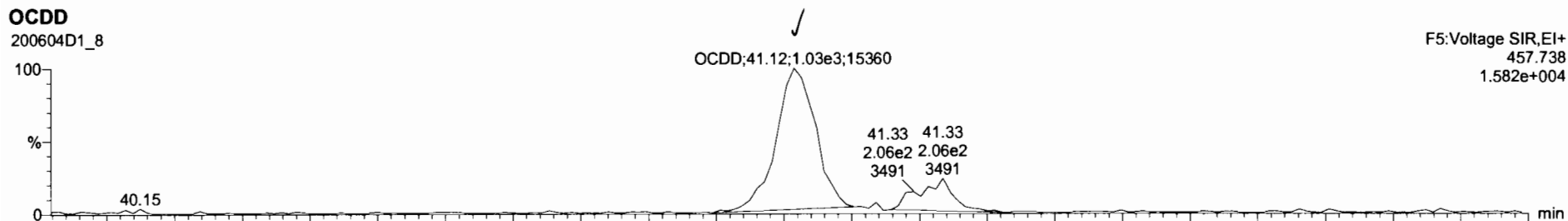
200604D1\_8-200945-03-PDI-146SC-A-02-03-200426-12.11-46-30-02-04-200426



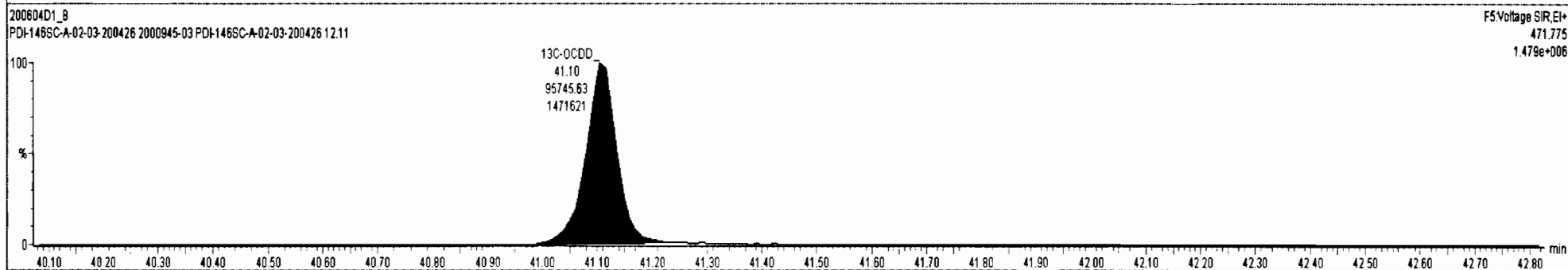
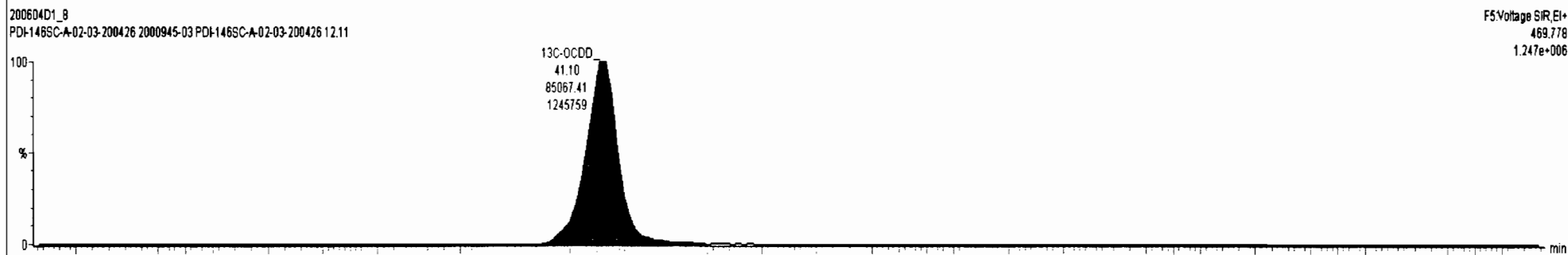
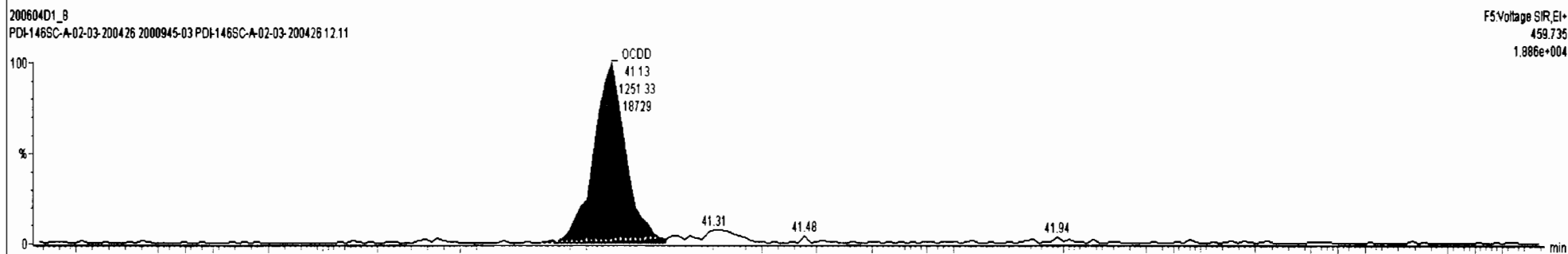
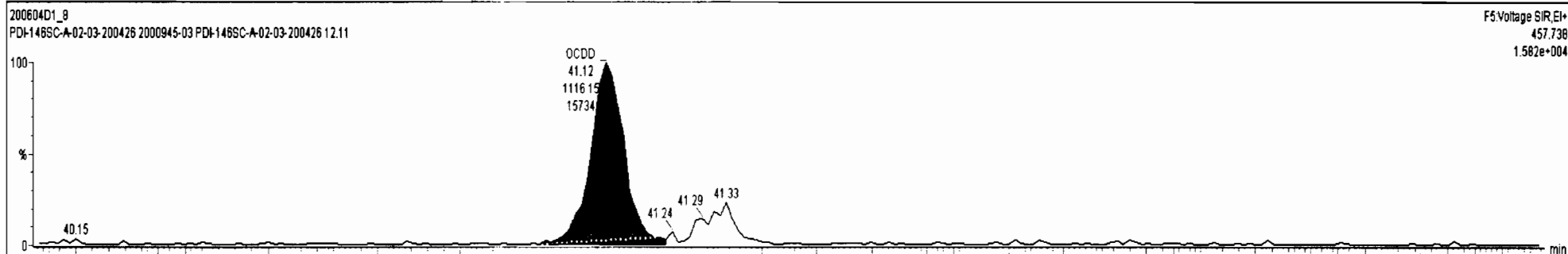
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Last Altered: Friday, June 05, 2020 09:34:31 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:44:14 Pacific Daylight Time

Name: 200604D1\_8, Date: 04-Jun-2020, Time: 17:16:22, ID: 2000945-03 PDI-146SC-A-02-03-200426 12.11, Description: PDI-146SC-A-02-03-200426



200604D1\_8\_02-03-200426\_2.PDF-146SC-A-02-03-200426\_12.11.PDF-146SC-A-02-03-200426\_12.11



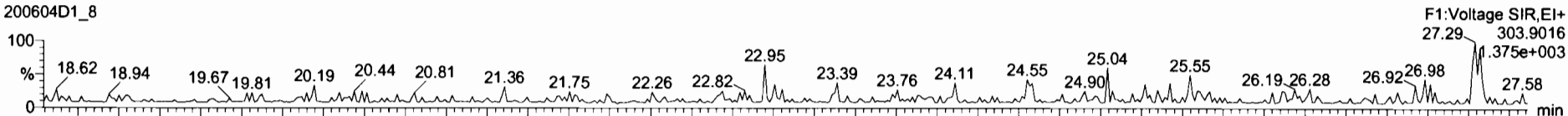
Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_8.qld

Last Altered: Friday, June 05, 2020 09:34:31 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:44:14 Pacific Daylight Time

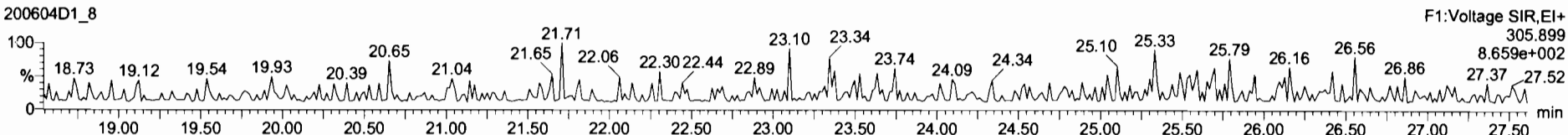
Name: 200604D1\_8, Date: 04-Jun-2020, Time: 17:16:22, ID: 2000945-03 PDI-146SC-A-02-03-200426 12.11, Description: PDI-146SC-A-02-03-200426

**2,3,7,8-TCDF**

200604D1\_8

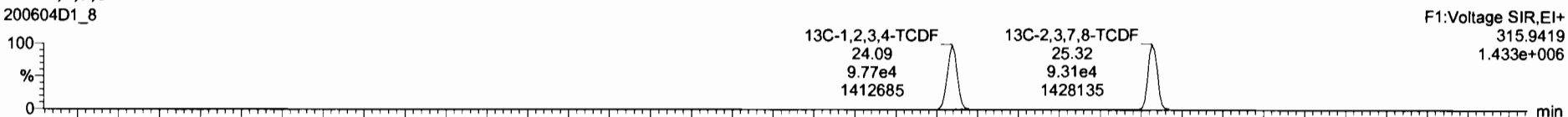


200604D1\_8

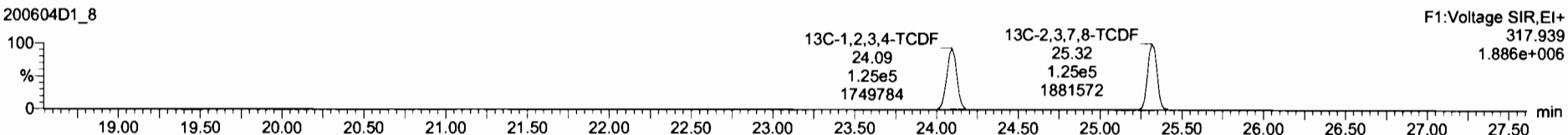


**13C-2,3,7,8-TCDF**

200604D1\_8

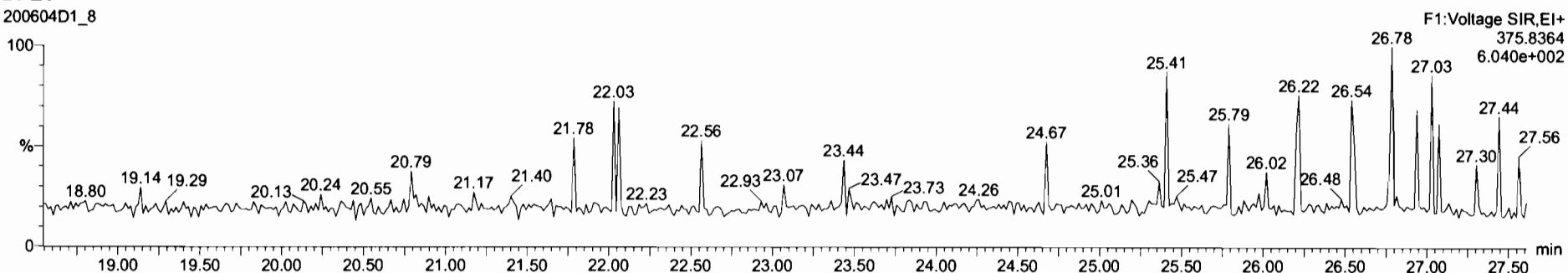


200604D1\_8



**DPE1**

200604D1\_8





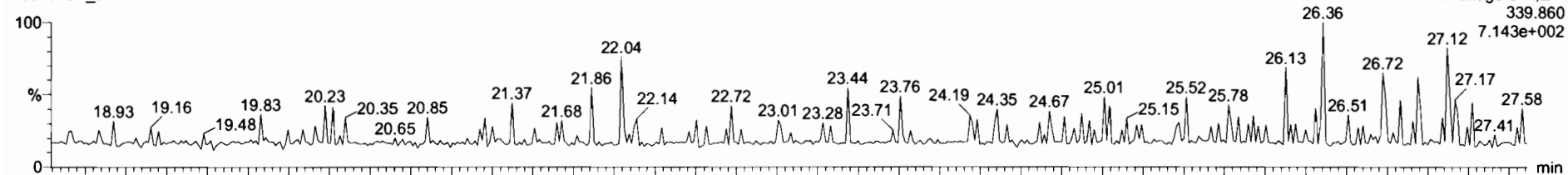
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Last Altered: Friday, June 05, 2020 09:34:31 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:44:14 Pacific Daylight Time

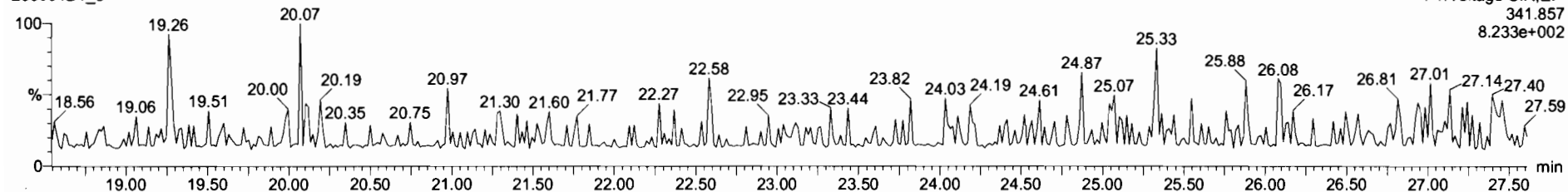
Name: 200604D1\_8, Date: 04-Jun-2020, Time: 17:16:22, ID: 2000945-03 PDI-146SC-A-02-03-200426 12.11, Description: PDI-146SC-A-02-03-200426

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200604D1\_8

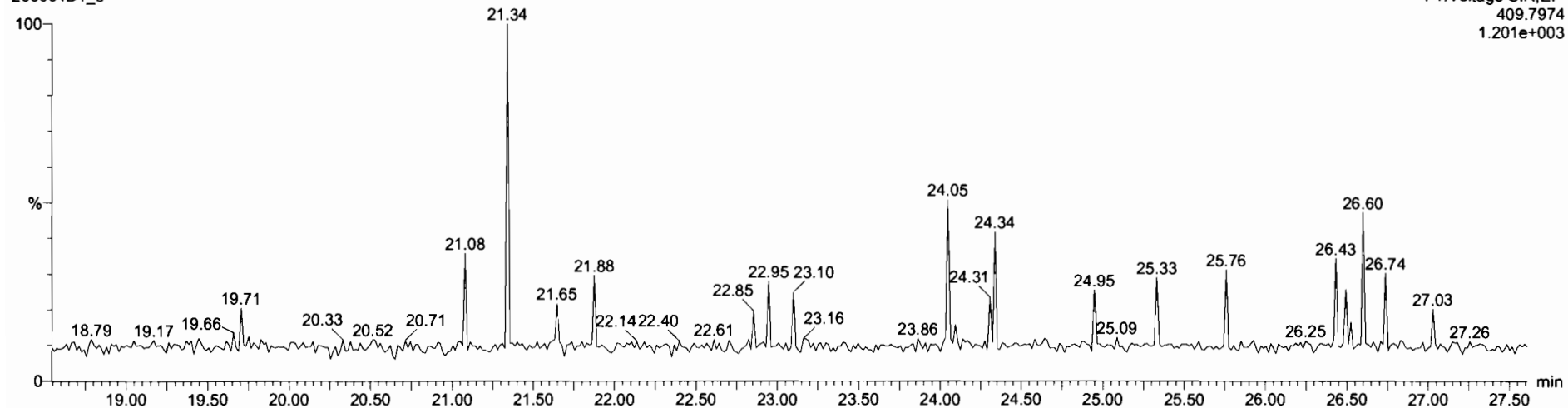


200604D1\_8



DPE6

200604D1\_8



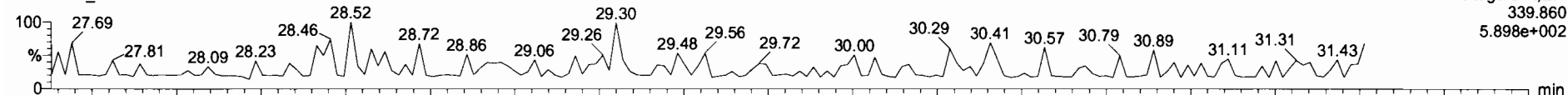
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Printed: Friday, June 05, 2020 09:44:14 Pacific Daylight Time

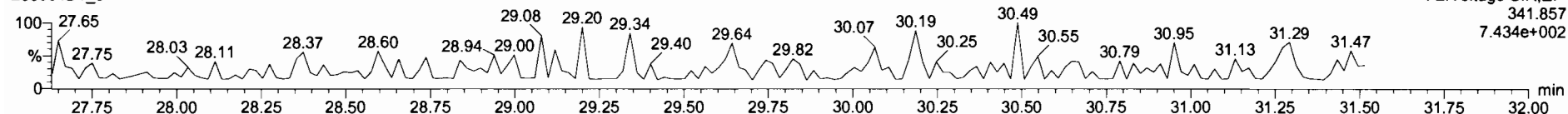
Name: 200604D1\_8, Date: 04-Jun-2020, Time: 17:16:22, ID: 2000945-03 PDI-146SC-A-02-03-200426 12.11, Description: PDI-146SC-A-02-03-200426

**1,2,3,7,8-PeCDF**

200604D1\_8

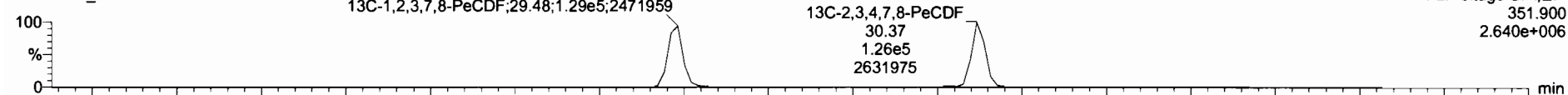


200604D1\_8

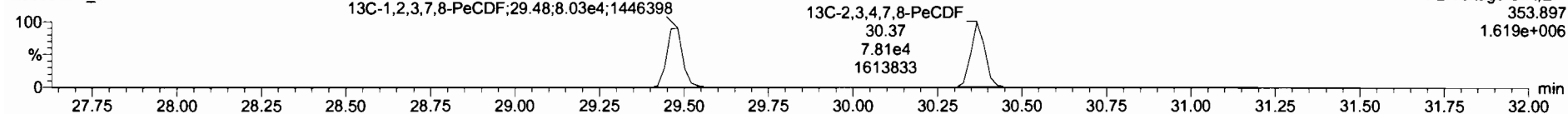


**13C-1,2,3,7,8-PeCDF**

200604D1\_8

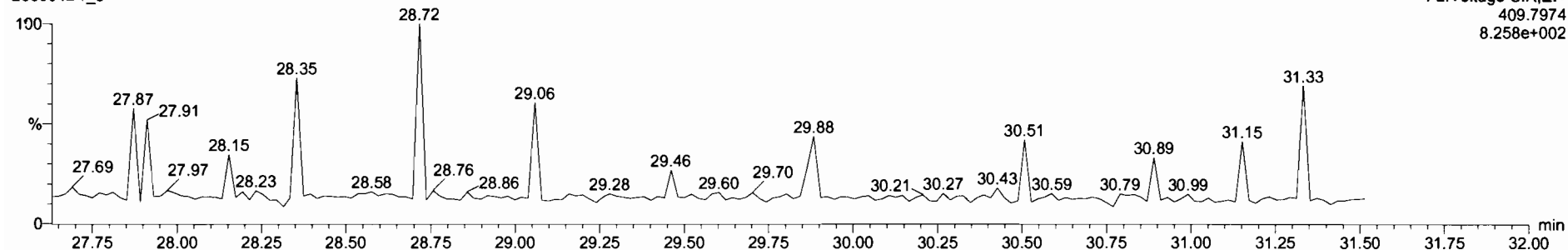


200604D1\_8



**DPE2**

200604D1\_8

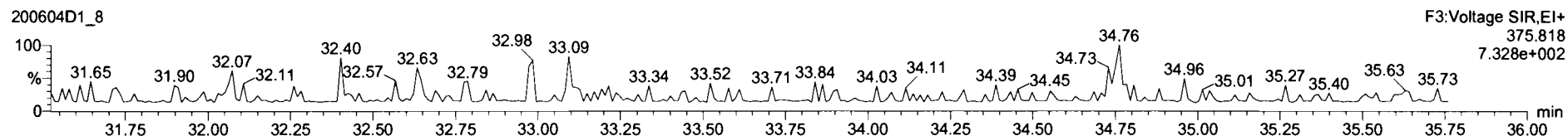
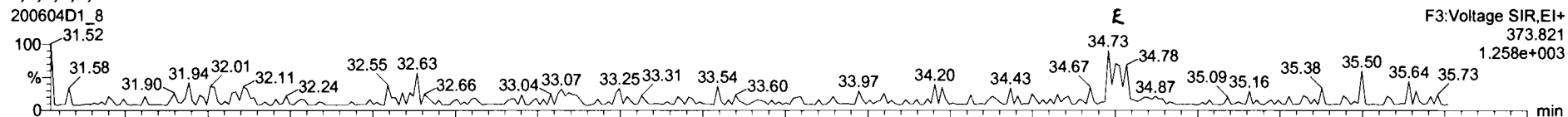


Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_8.qld

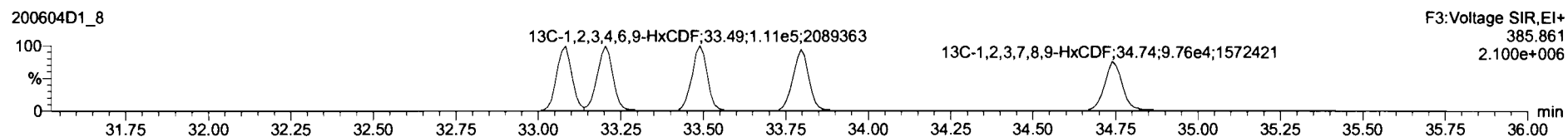
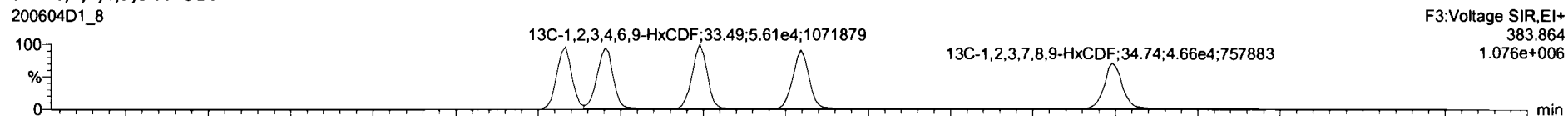
Last Altered: Friday, June 05, 2020 09:34:31 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:44:14 Pacific Daylight Time

Name: 200604D1\_8, Date: 04-Jun-2020, Time: 17:16:22, ID: 2000945-03 PDI-146SC-A-02-03-200426 12.11, Description: PDI-146SC-A-02-03-200426

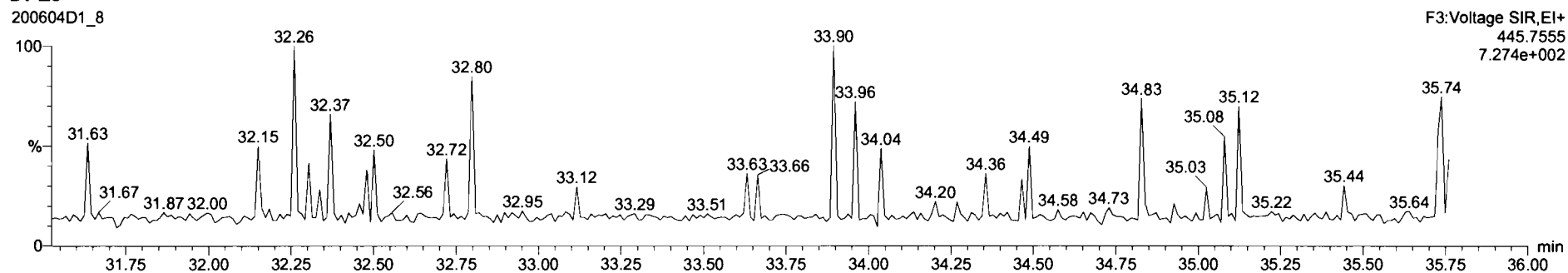
1,2,3,4,7,8-HxCDF



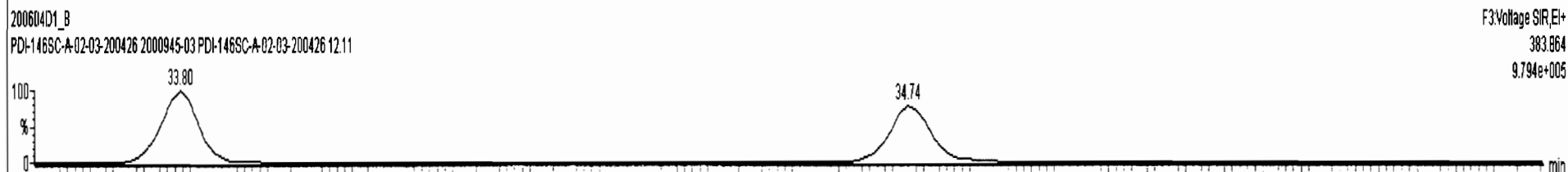
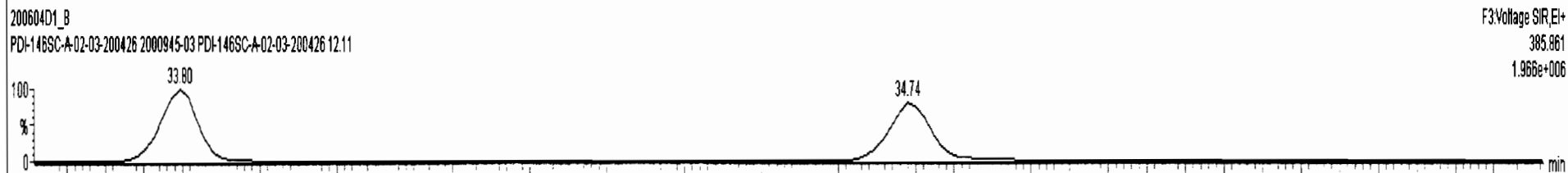
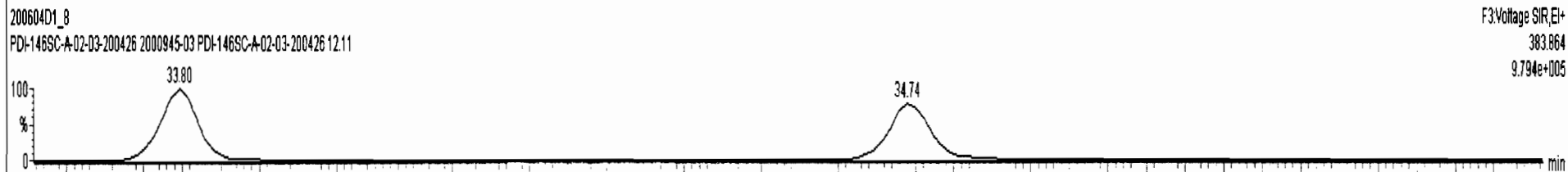
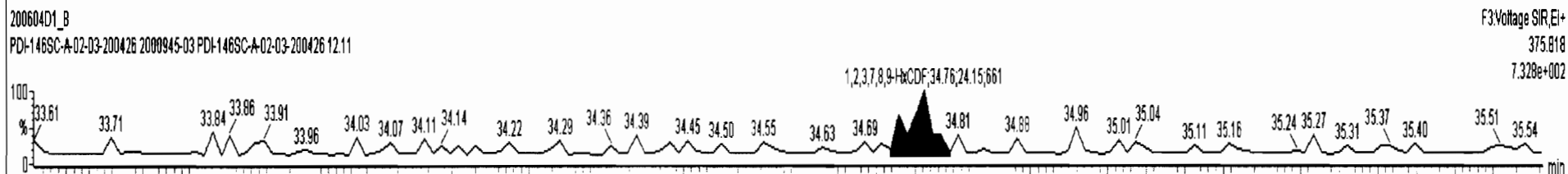
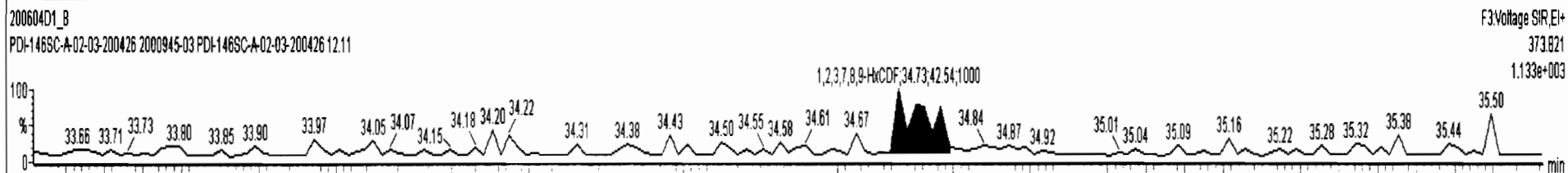
13C-1,2,3,4,7,8-HxCDF



DPE3



200604D1\_8 - 2000945-03 PDI-146SC-A-02-03-200426 12.11 - PDI-146SC-A-02-03-200426



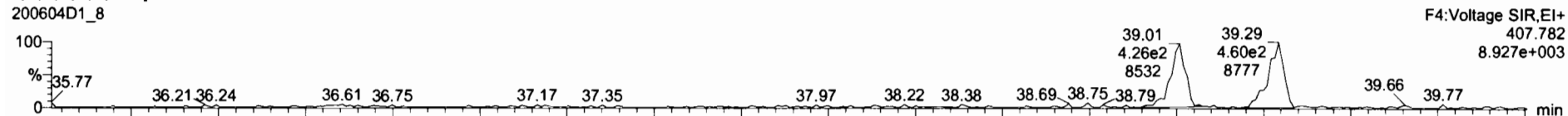
Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_8.qld

Last Altered: Friday, June 05, 2020 09:34:31 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:44:14 Pacific Daylight Time

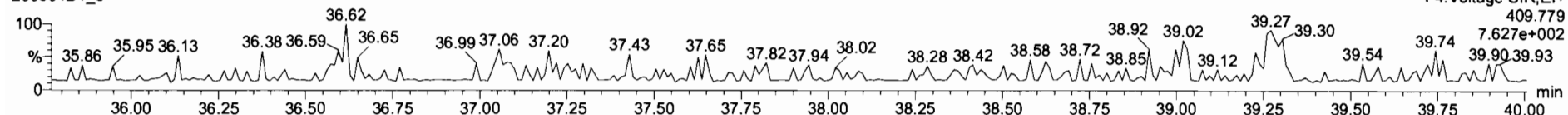
Name: 200604D1\_8, Date: 04-Jun-2020, Time: 17:16:22, ID: 2000945-03 PDI-146SC-A-02-03-200426 12.11, Description: PDI-146SC-A-02-03-200426

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

200604D1\_8

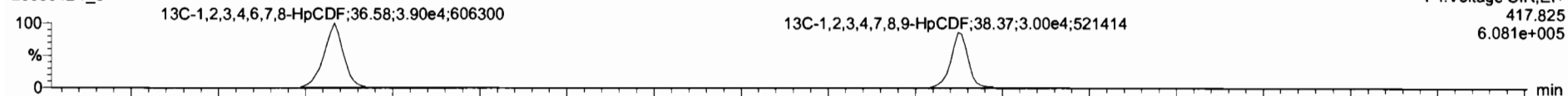


200604D1\_8

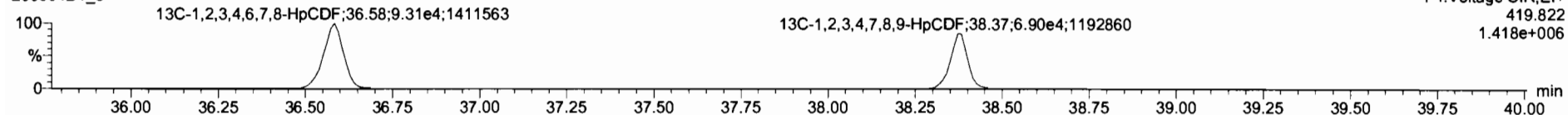


### 13C-1,2,3,4,6,7,8-HpCDF

200604D1\_8

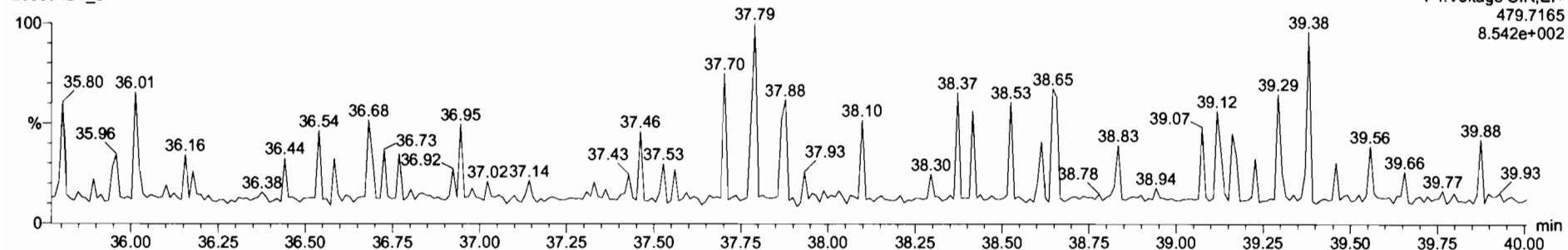


200604D1\_8



### DPE4

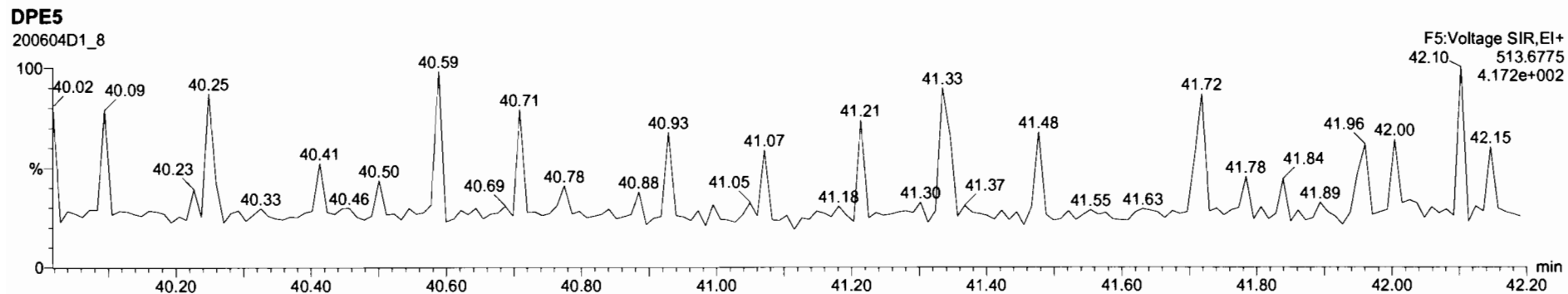
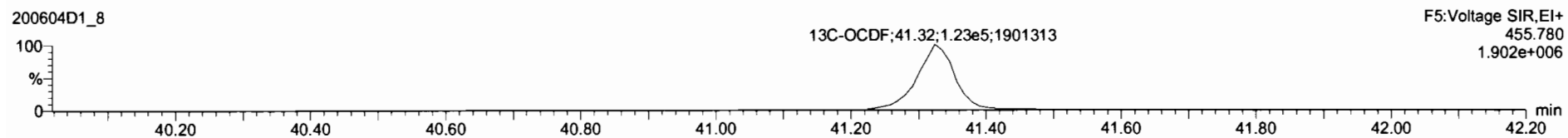
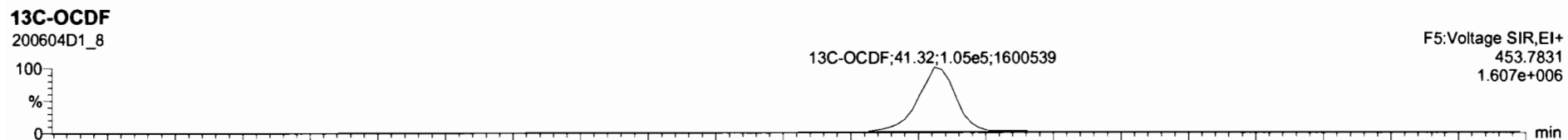
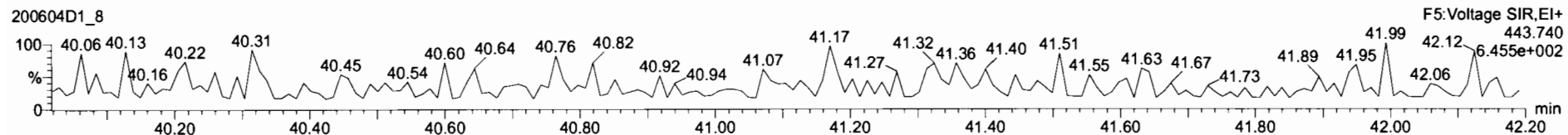
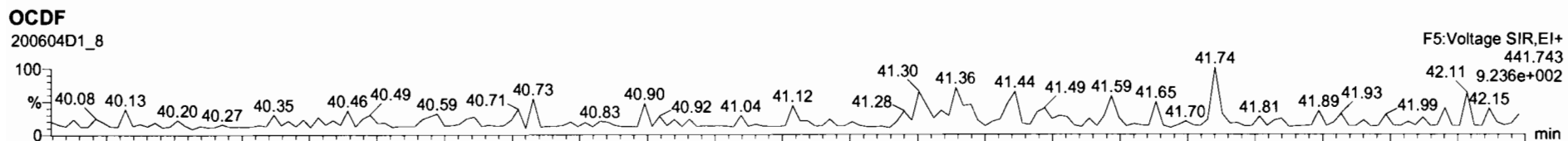
200604D1\_8



Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_8.qld

Last Altered: Friday, June 05, 2020 09:34:31 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:44:14 Pacific Daylight Time

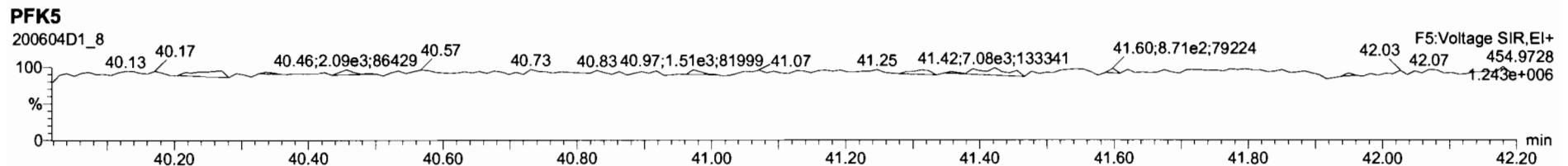
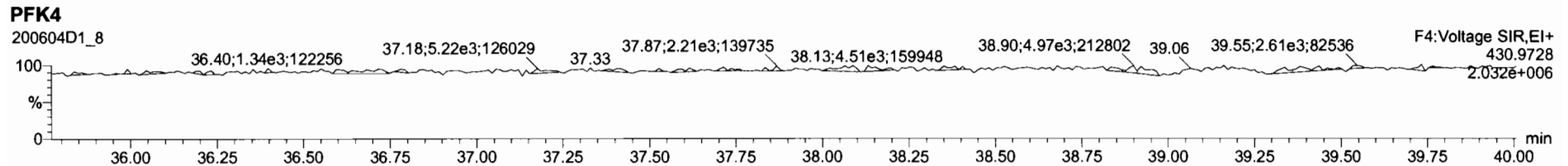
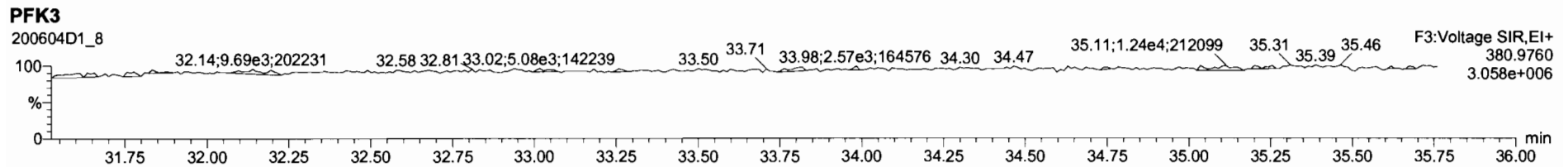
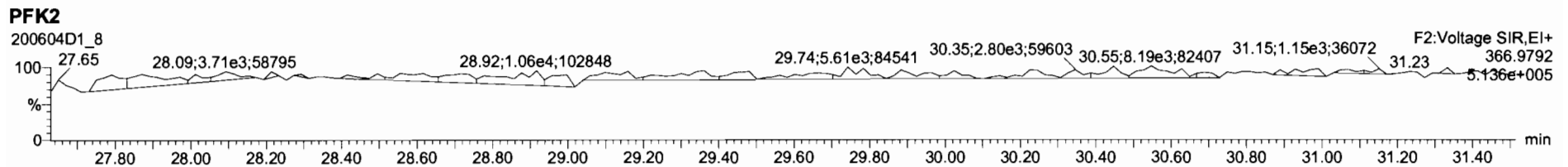
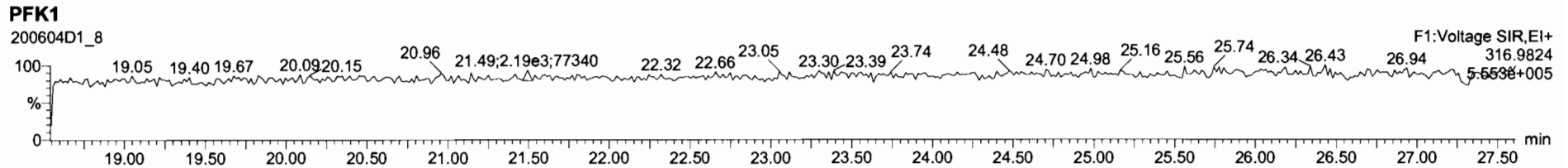
Name: 200604D1\_8, Date: 04-Jun-2020, Time: 17:16:22, ID: 2000945-03 PDI-146SC-A-02-03-200426 12.11, Description: PDI-146SC-A-02-03-200426



Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_8.qld

Last Altered: Friday, June 05, 2020 09:34:31 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:44:14 Pacific Daylight Time

Name: 200604D1\_8, Date: 04-Jun-2020, Time: 17:16:22, ID: 2000945-03 PDI-146SC-A-02-03-200426 12.11, Description: PDI-146SC-A-02-03-200426



Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_10.qld

Last Altered: Thursday, June 04, 2020 09:58:06 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 09:59:57 Pacific Daylight Time

*DB 6/4/20 07:06/05/2020*

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24  
Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200603D1\_10, Date: 03-Jun-2020, Time: 21:26:43, ID: 2000945-04 PDI-146SC-A-03-04-200426 12.98, Description: PDI-146SC-A-03-04-200426

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.987	9.933	26.127		1.001				0.122	
2	2 1,2,3,7,8-PeCDD			NO	0.982	9.933	30.669		1.001				0.121	
3	3 1,2,3,4,7,8-HxCDD			NO	1.17	9.933	33.971		1.000				0.171	
4	4 1,2,3,6,7,8-HxCDD			NO	1.04	9.933	34.070		1.000				0.175	
5	5 1,2,3,7,8,9-HxCDD			NO	1.00	9.933	34.390		1.001				0.192	
6	6 1,2,3,4,6,7,8-HpCDD	3.07e2	1.29	YES	0.992	9.933	37.845	37.86	1.000	1.001	0.49545		0.121	0.441
7	7 OCDD	2.04e3	0.89	NO	1.04	9.933	41.104	41.12	1.000	1.000	3.8286		0.315	3.83
8	8 2,3,7,8-TCDF			NO	0.882	9.933	25.326		1.001				0.0964	
9	9 1,2,3,7,8-PeCDF			NO	1.05	9.933	29.482		1.001				0.0776	
10	10 2,3,4,7,8-PeCDF			NO	1.06	9.933	30.397		1.001				0.0703	
11	11 1,2,3,4,7,8-HxCDF			NO	1.08	9.933	33.072		1.000				0.0847	
12	12 1,2,3,6,7,8-HxCDF			NO	1.04	9.933	33.203		1.000				0.0884	
13	13 2,3,4,6,7,8-HxCDF			NO	1.11	9.933	33.819		1.001				0.0947	
14	14 1,2,3,7,8,9-HxCDF	1.14e2	1.41	NO	1.06	9.933	34.729	34.75	1.000	1.001	0.12214		0.0704	0.122
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.13	9.933	36.609		1.001				0.121	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.33	9.933	38.372		1.000				0.118	
17	17 OCDF			NO	0.933	9.933	41.324		1.000				0.119	
18	18 13C-2,3,7,8-TCDD	2.04e5	0.77	NO	1.21	9.933	26.195	26.10	1.026	1.022	180.98	89.9	0.328	
19	19 13C-1,2,3,7,8-PeCDD	1.68e5	0.62	NO	0.996	9.933	30.688	30.65	1.202	1.200	180.94	89.9	0.307	
20	20 13C-1,2,3,4,7,8-HxCDD	1.45e5	1.31	NO	0.679	9.933	33.947	33.96	1.014	1.014	211.25	105	0.763	
21	21 13C-1,2,3,6,7,8-HxCDD	1.61e5	1.31	NO	0.850	9.933	34.057	34.07	1.017	1.018	187.96	93.3	0.610	
22	22 13C-1,2,3,7,8,9-HxCDD	1.60e5	1.26	NO	0.798	9.933	34.328	34.36	1.025	1.026	199.05	98.9	0.649	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.26e5	1.04	NO	0.697	9.933	37.797	37.83	1.129	1.130	178.96	88.9	0.528	
24	24 13C-OCDD	2.07e5	0.87	NO	0.579	9.933	40.823	41.10	1.219	1.228	354.12	87.9	0.273	
25	25 13C-2,3,7,8-TCDF	2.71e5	0.77	NO	1.13	9.933	25.276	25.30	0.990	0.991	164.76	81.8	0.483	
26	26 13C-1,2,3,7,8-PeCDF	2.61e5	1.62	NO	0.996	9.933	29.506	29.46	1.156	1.154	179.37	89.1	0.592	
27	27 13C-2,3,4,7,8-PeCDF	2.58e5	1.62	NO	0.969	9.933	30.407	30.37	1.191	1.189	182.28	90.5	0.608	
28	28 13C-1,2,3,4,7,8-HxCDF	1.96e5	0.51	NO	1.06	9.933	33.076	33.07	0.988	0.988	183.55	91.2	0.617	
29	29 13C-1,2,3,6,7,8-HxCDF	2.07e5	0.50	NO	1.18	9.933	33.210	33.19	0.992	0.991	174.46	86.6	0.555	
30	30 13C-2,3,4,6,7,8-HxCDF	1.96e5	0.49	NO	1.06	9.933	33.783	33.78	1.009	1.009	183.42	91.1	0.618	
31	31 13C-1,2,3,7,8,9-HxCDF	1.78e5	0.50	NO	0.879	9.933	34.683	34.73	1.036	1.037	201.06	99.8	0.742	



Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_10.qld

Last Altered: Thursday, June 04, 2020 09:58:06 Pacific Daylight Time

Printed: Thursday, June 04, 2020 09:59:57 Pacific Daylight Time

Name: 200603D1\_10, Date: 03-Jun-2020, Time: 21:26:43, ID: 2000945-04 PDI-146SC-A-03-04-200426 12.98, Description: PDI-146SC-A-03-04-200426

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.57e5	0.43	NO	0.893	9.933	36.391	36.57	1.087	1.092	174.30	86.6	0.515	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.20e5	0.43	NO	0.613	9.933	38.399	38.37	1.147	1.146	194.52	96.6	0.750	
34	34 13C-OCDF	2.49e5	0.88	NO	0.741	9.933	40.977	41.32	1.224	1.234	333.05	82.7	0.138	
35	35 37Cl-2,3,7,8-TCDD	8.48e4			1.18	9.933	26.192	26.13	1.026	1.023	76.959	95.5	0.0990	
36	36 13C-1,2,3,4-TCDD	1.88e5	0.79	NO	1.00	9.933	25.480	25.53	1.000	1.000	201.36	100	0.395	
37	37 13C-1,2,3,4-TCDF	2.94e5	0.79	NO	1.00	9.933	24.020	24.08	1.000	1.000	201.36	100	0.545	
38	38 13C-1,2,3,4,6,9-HxCDF	2.03e5	0.50	NO	1.00	9.933	33.530	33.48	1.000	1.000	201.36	100	0.653	
39	39 Total Tetra-Dioxins				0.987	9.933	24.620		0.000		0.18234		0.0737	0.182
40	40 Total Penta-Dioxins				0.982	9.933	29.960		0.000				0.0449	
41	41 Total Hexa-Dioxins				1.04	9.933	33.635		0.000		0.44645		0.185	0.446
42	42 Total Hepta-Dioxins				0.992	9.933	37.640		0.000		0.98705		0.121	1.43
43	43 Total Tetra-Furans				0.882	9.933	23.610		0.000				0.0430	
44	44 1st Func. Penta-Furans				1.05	9.933	27.090		0.000				0.0140	
45	45 Total Penta-Furans				1.05	9.933	29.275		0.000				0.0354	
46	46 Total Hexa-Furans				1.11	9.933	33.555		0.000		0.12214		0.0538	0.122
47	47 Total Hepta-Furans				1.13	9.933	37.835		0.000				0.0588	

Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_10.qld

Last Altered: Thursday, June 04, 2020 09:58:06 Pacific Daylight Time  
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Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24  
 Calibration: U:\VG7.PRO\CurveDB\lb-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200603D1\_10, Date: 03-Jun-2020, Time: 21:26:43, ID: 2000945-04 PDI-146SC-A-03-04-200426 12.98, Description: PDI-146SC-A-03-04-200426

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.22	1.728e3	1.394e3	8.546e1	9.673e1	0.88	NO	1.822e2	0.18234	0.18234	0.0737

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.44	4.049e3	3.520e3	1.853e2	1.715e2	1.08	NO	3.568e2	0.44645	0.44645	0.185

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.98	4.814e3	4.186e3	3.153e2	2.961e2	1.06	NO	6.114e2	0.98705	0.98705	0.121
2	1,2,3,4,6,7,8-HpCDD	37.86	3.355e3	2.539e3	1.730e2	1.339e2	1.29	YES	3.069e2	0.00000	0.44090	0.121

**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:\VG7.PRO\Results\200603D1\200603D1\_10.qld

Last Altered: Thursday, June 04, 2020 09:58:06 Pacific Daylight Time

Printed: Thursday, June 04, 2020 09:59:57 Pacific Daylight Time

Name: 200603D1\_10, Date: 03-Jun-2020, Time: 21:26:43, ID: 2000945-04 PDI-146SC-A-03-04-200426 12.98, Description: PDI-146SC-A-03-04-200426

**Penta-Furans**

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

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8,9-HxCDF	34.75	1.026e3	1.057e3	6.689e1	4.741e1	1.41	NO	1.143e2	0.12214	0.12214	0.0704

**Hepta-Furans**

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

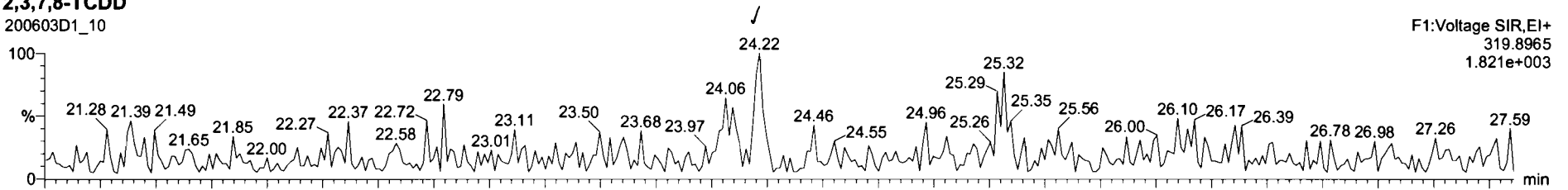
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Printed: Thursday, June 04, 2020 09:49:34 Pacific Daylight Time

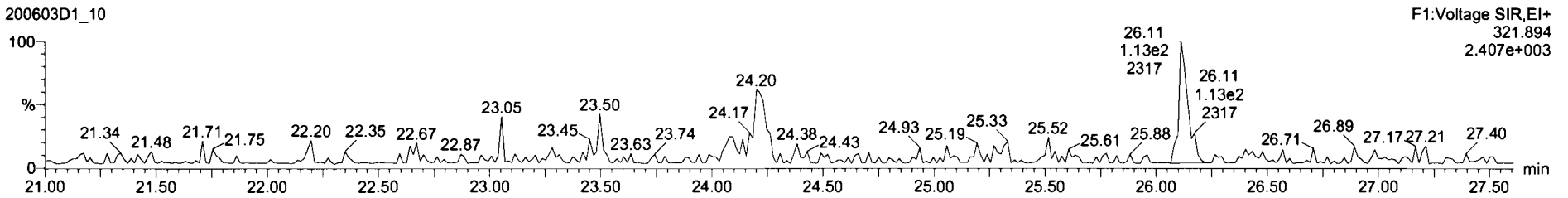
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Name: 200603D1\_10, Date: 03-Jun-2020, Time: 21:26:43, ID: 2000945-04 PDI-146SC-A-03-04-200426 12.98, Description: PDI-146SC-A-03-04-200426

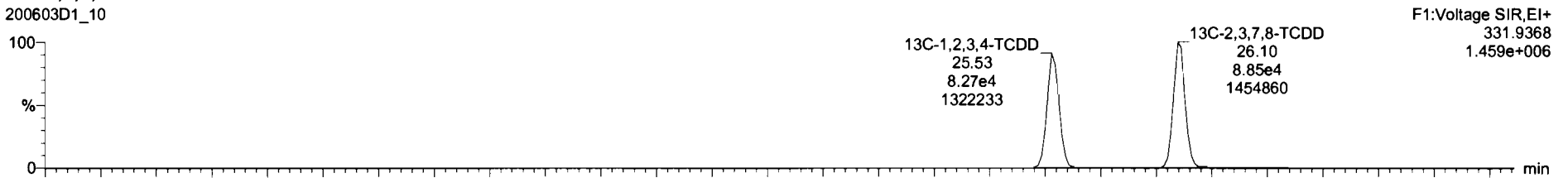
**2,3,7,8-TCDD**  
200603D1\_10



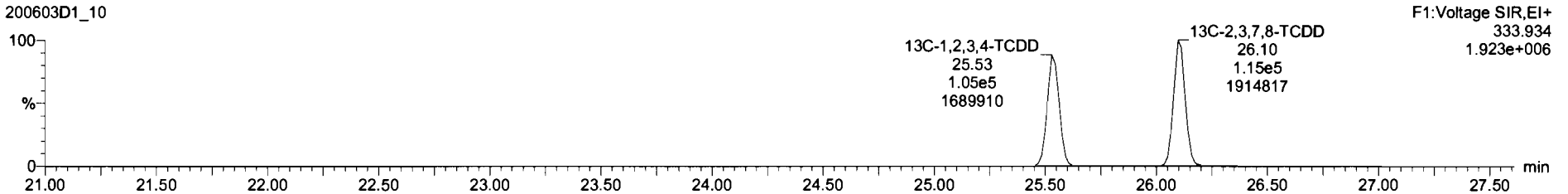
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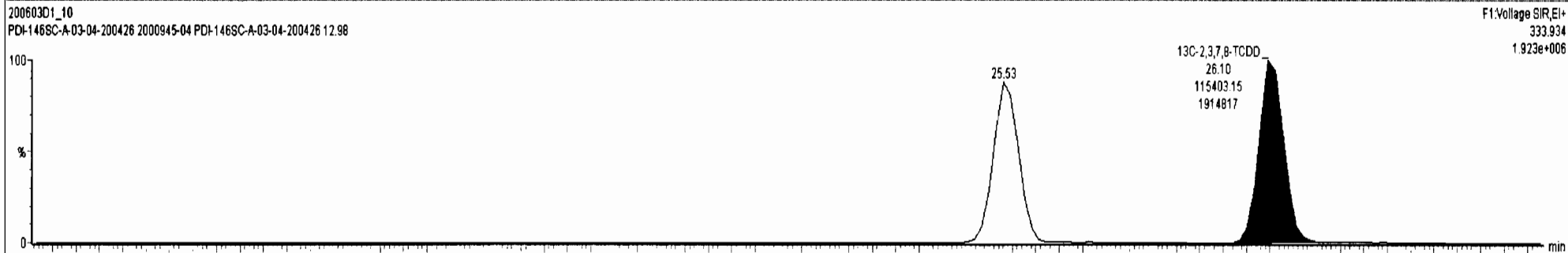
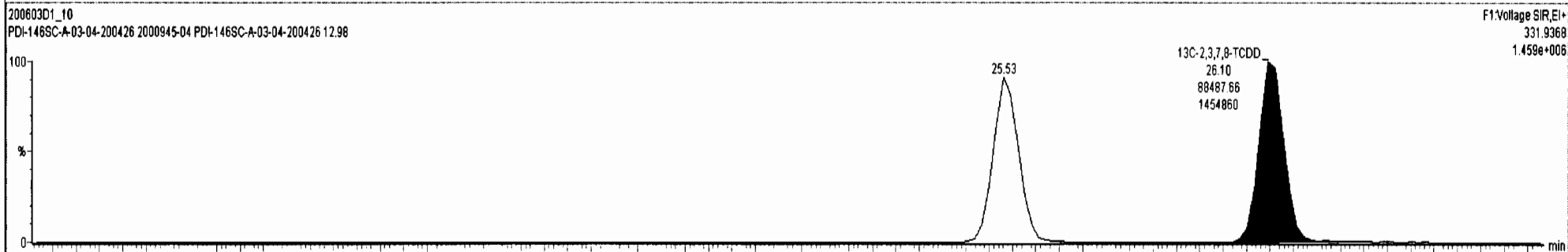
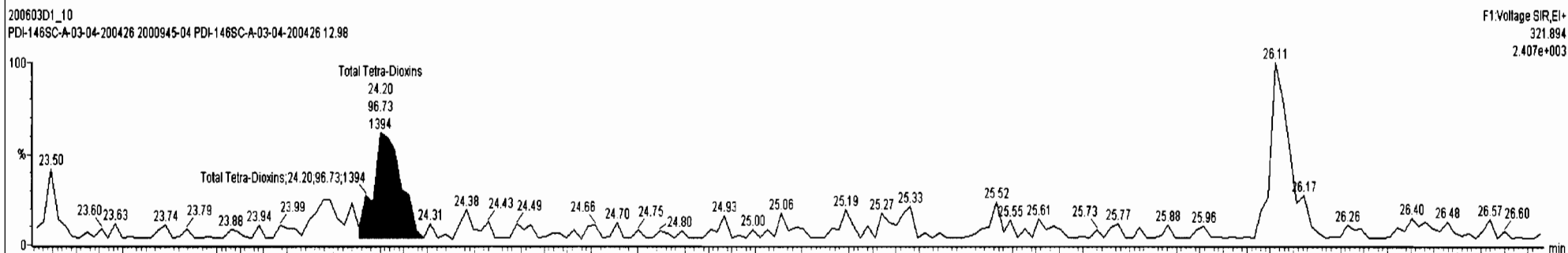
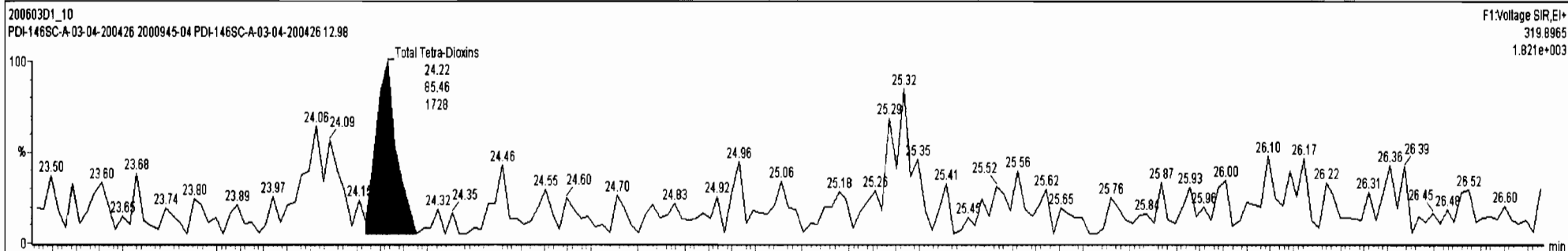


**13C-2,3,7,8-TCDD**  
200603D1\_10



200603D1\_10





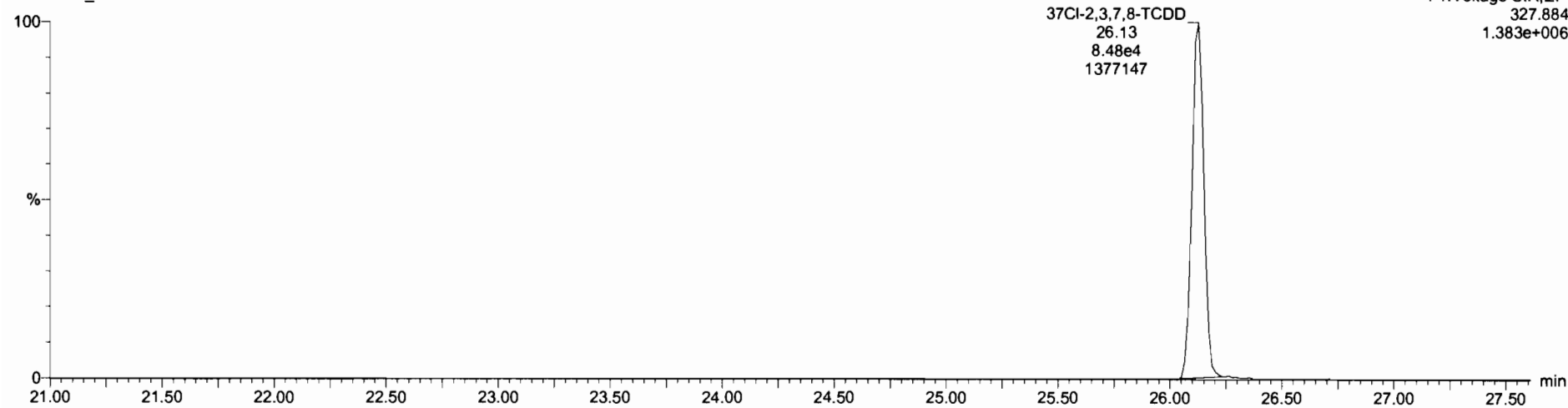
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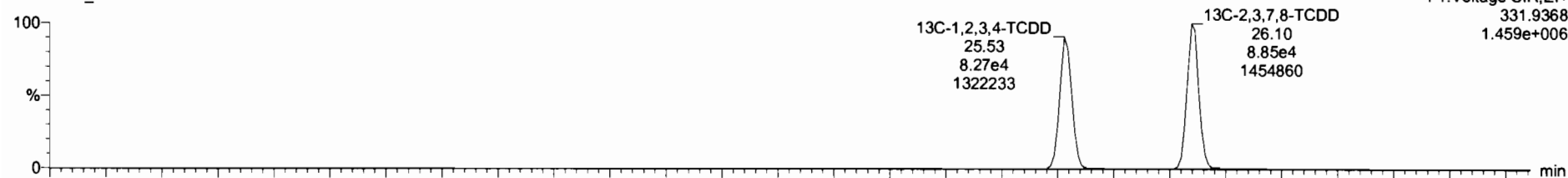
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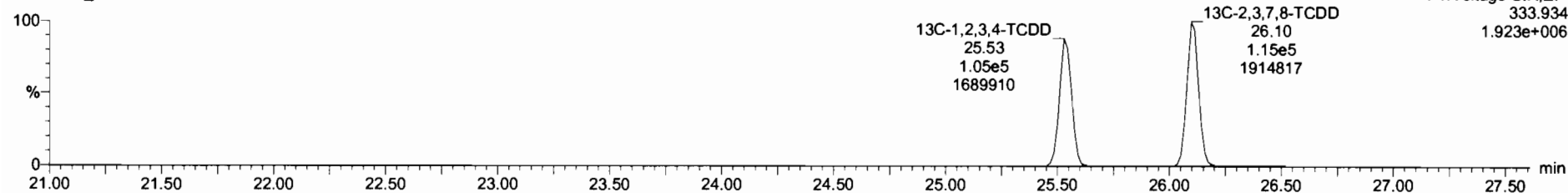


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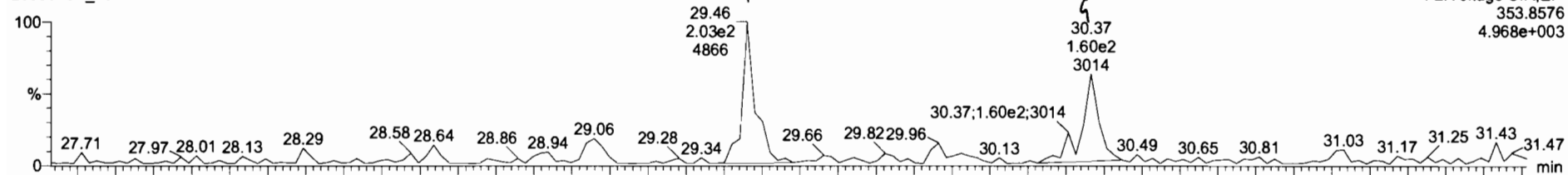
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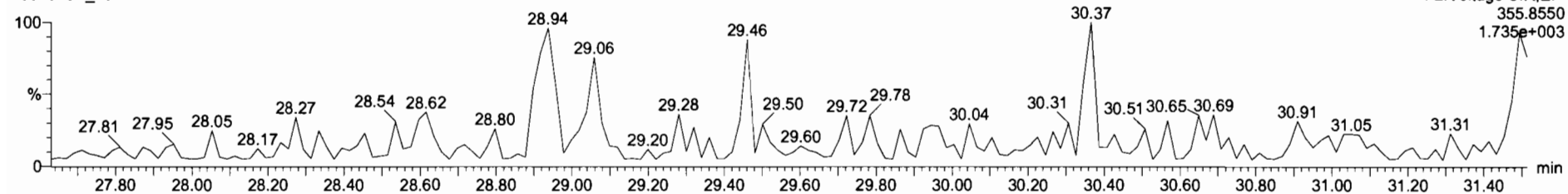
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1,2,3,7,8-PeCDD

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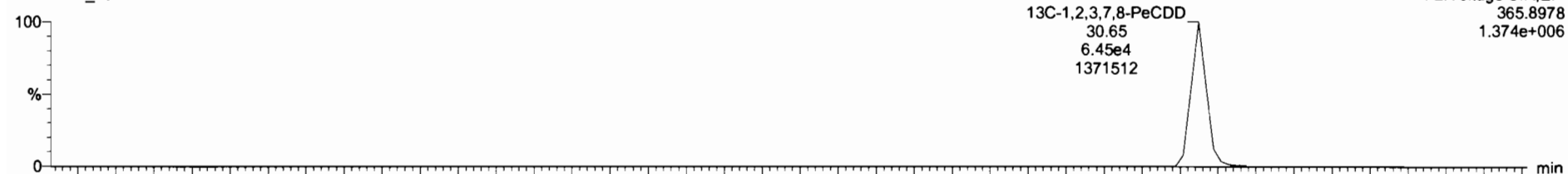


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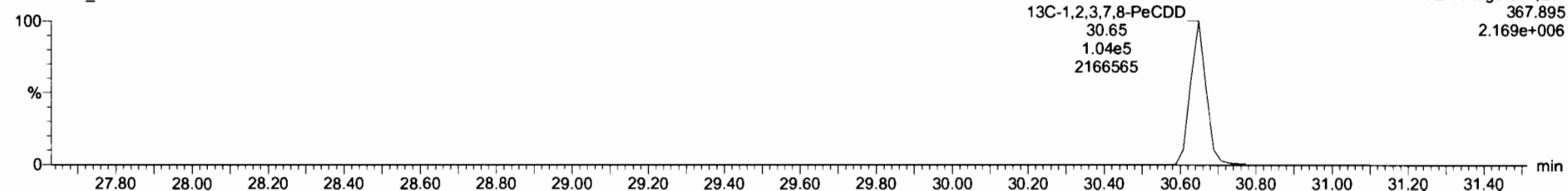


13C-1,2,3,7,8-PeCDD

200603D1\_10



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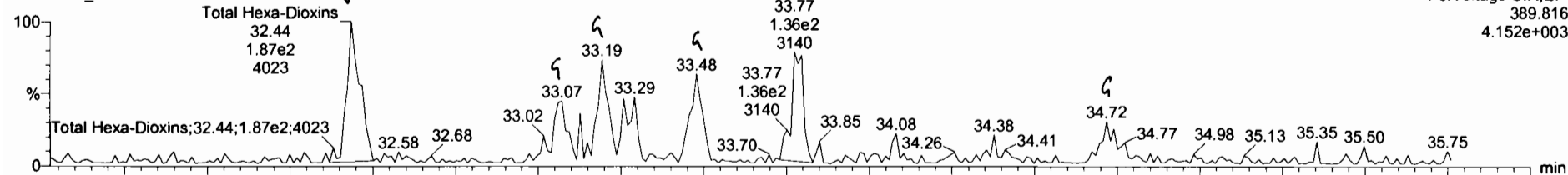
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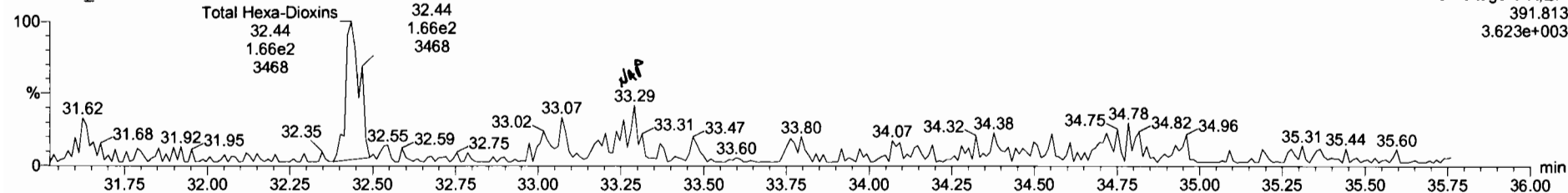
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1,2,3,4,7,8-HxCDD

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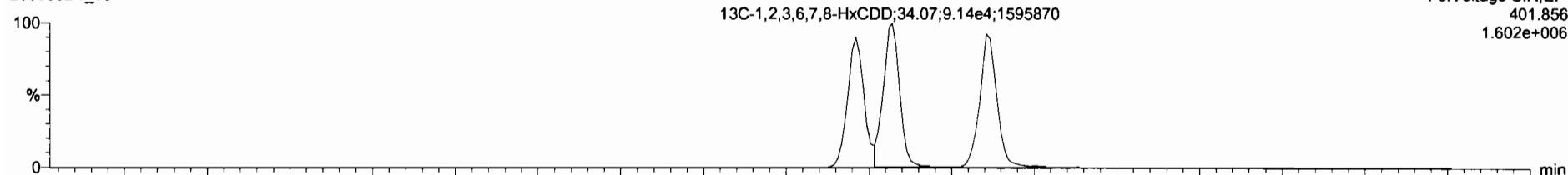


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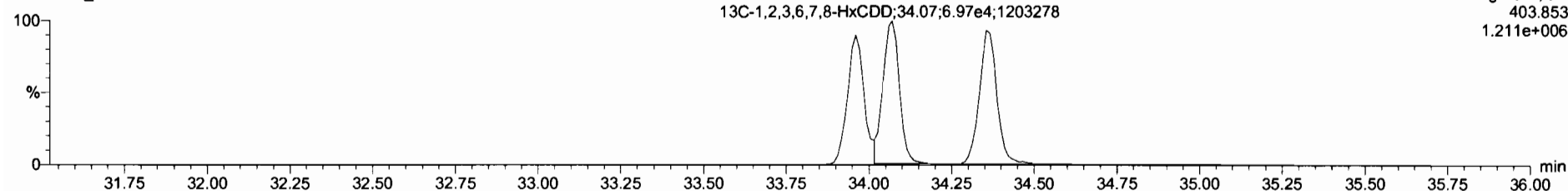


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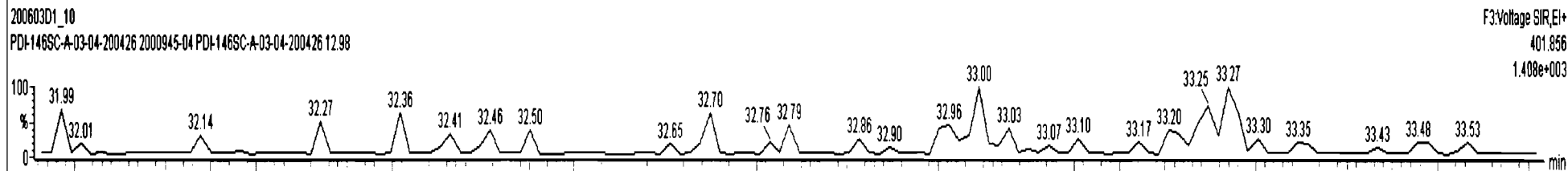
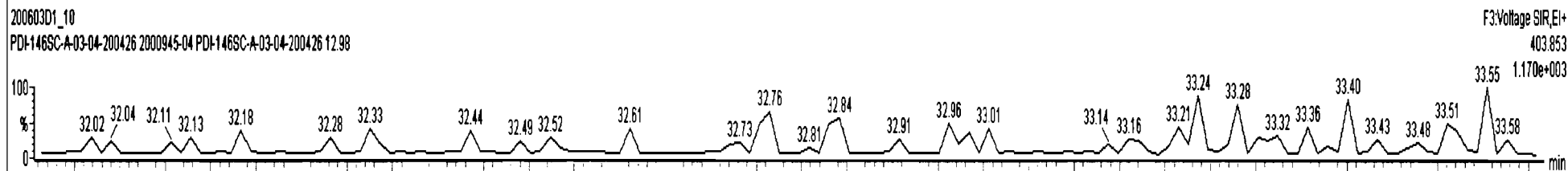
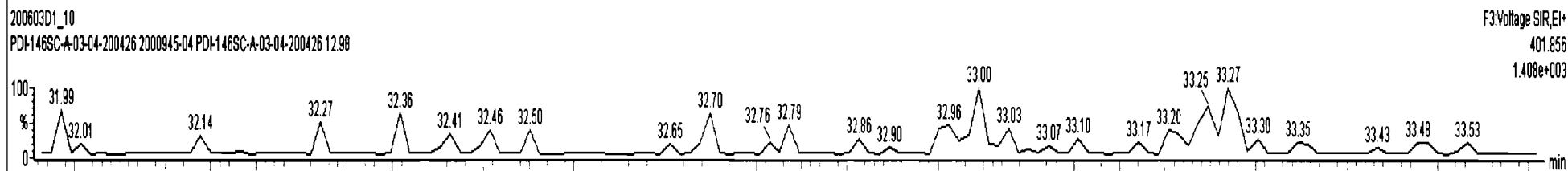
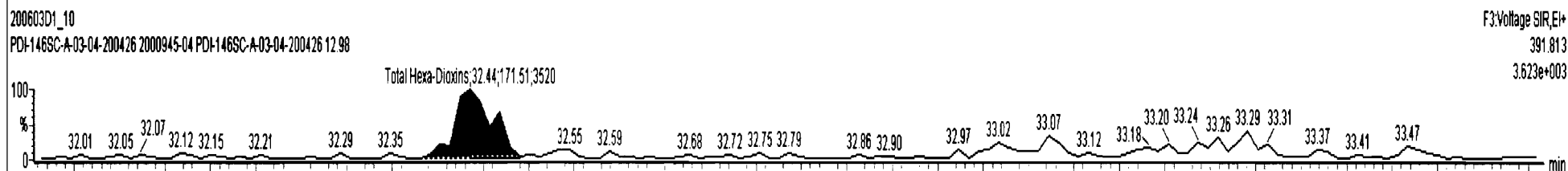
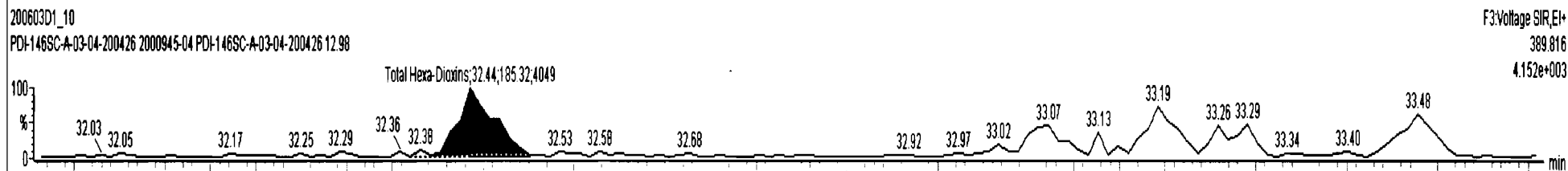
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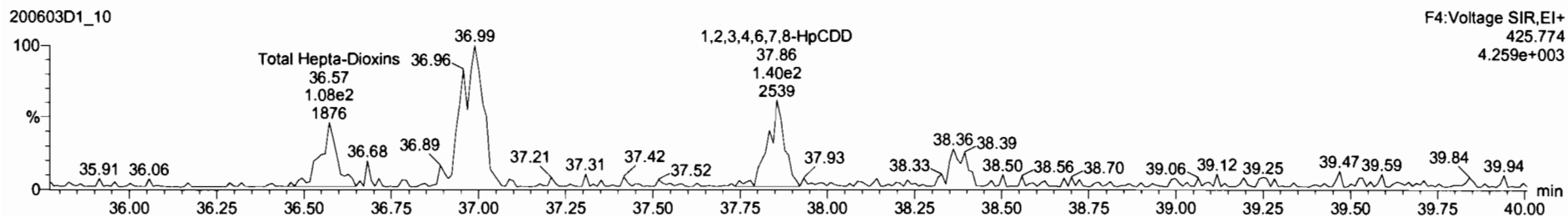
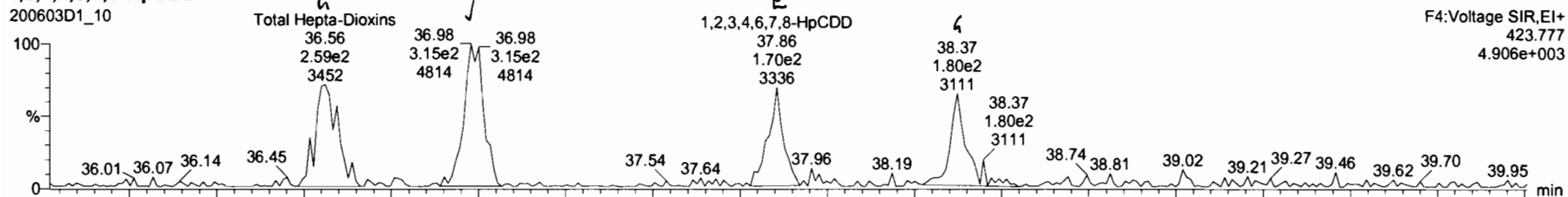


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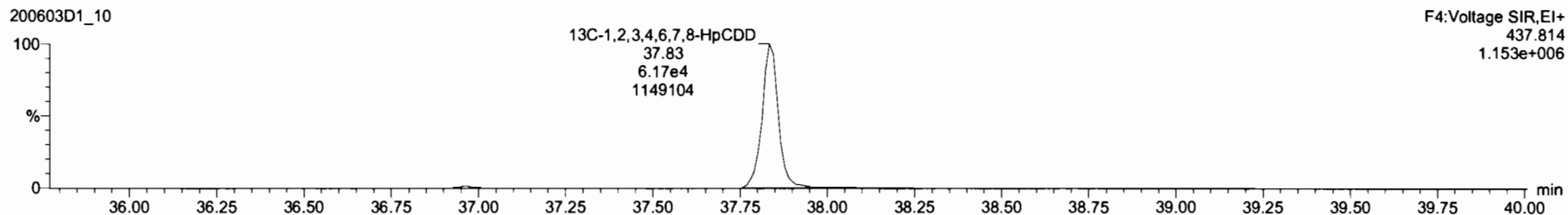
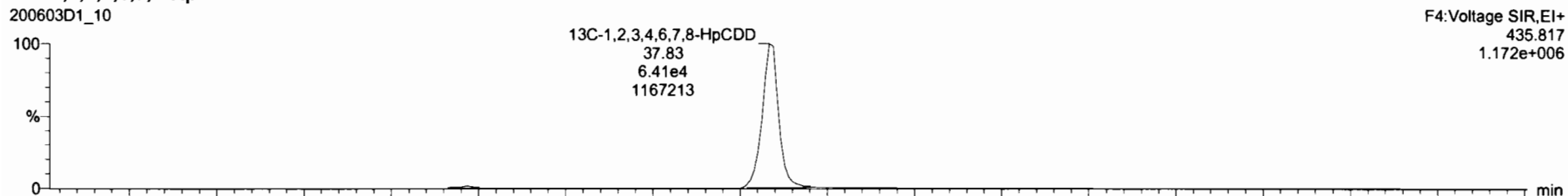
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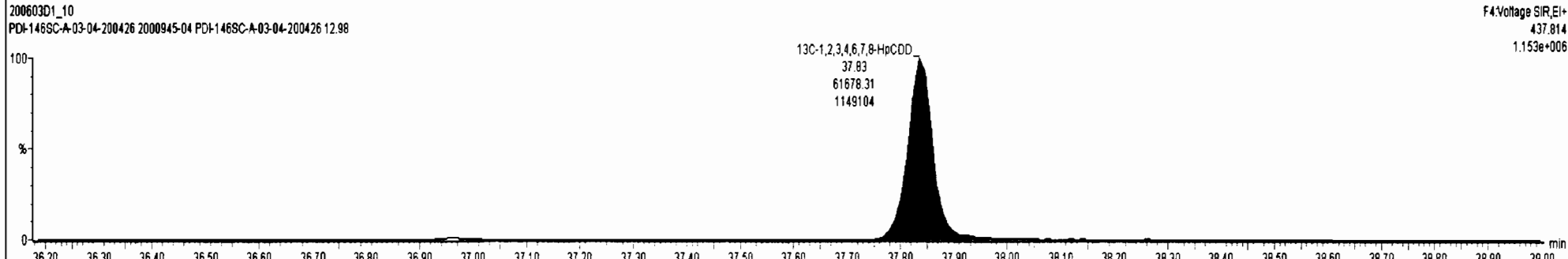
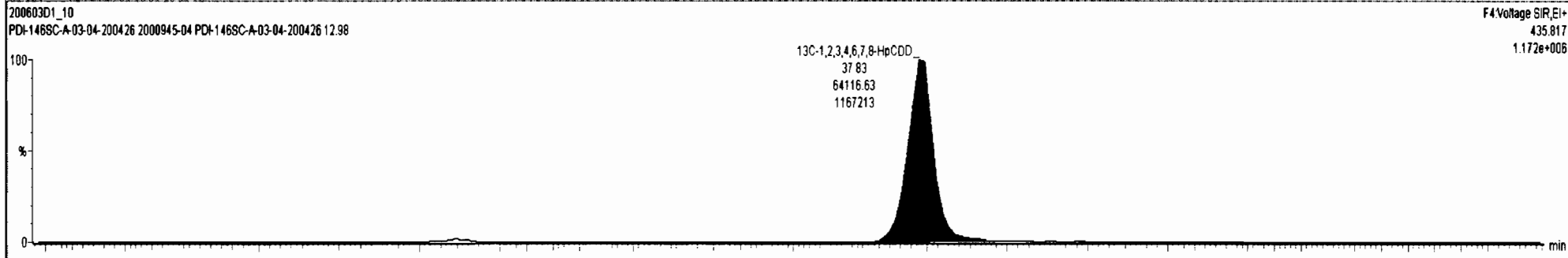
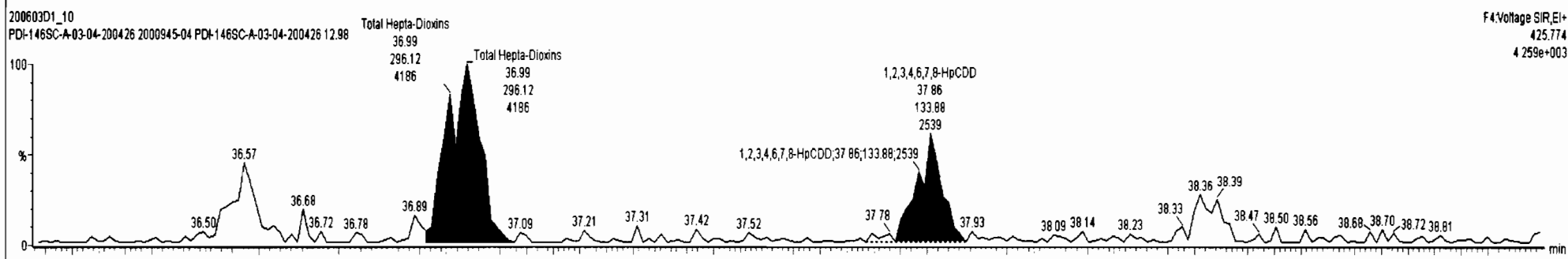
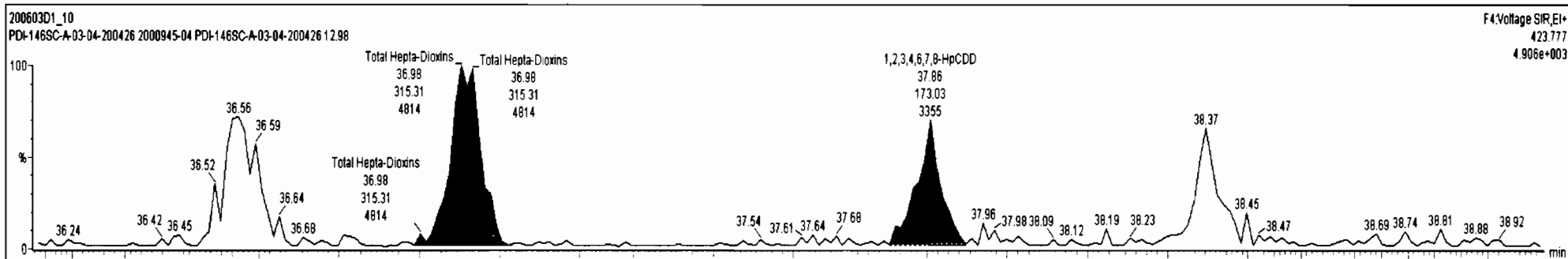
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1,2,3,4,6,7,8-HpCDD



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

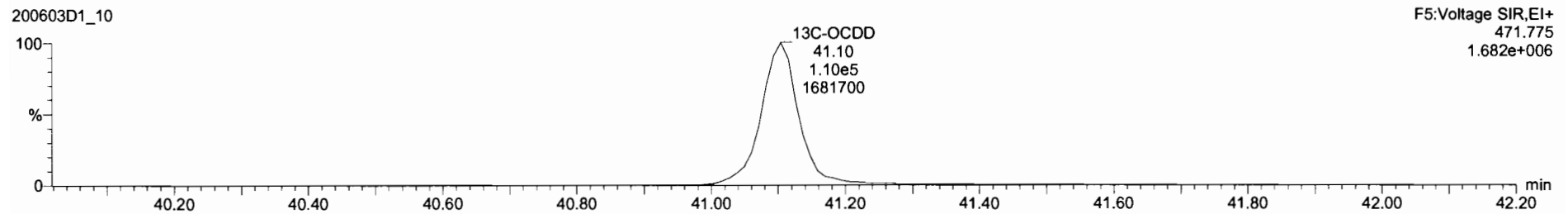
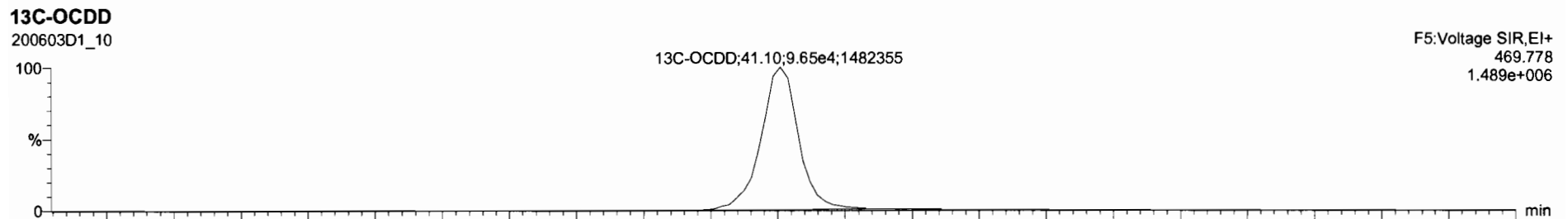
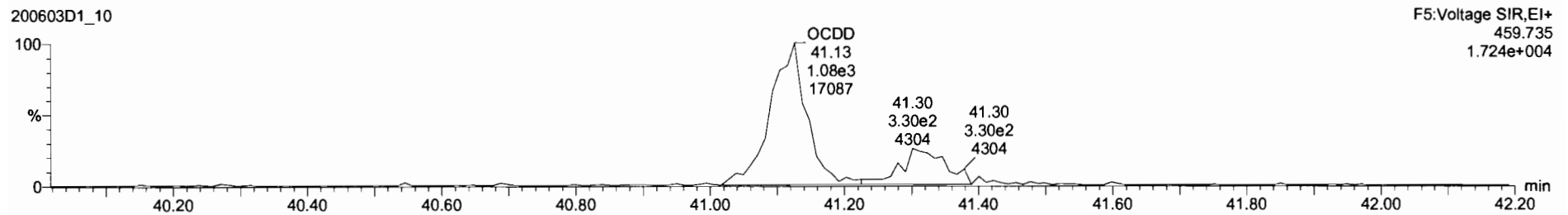
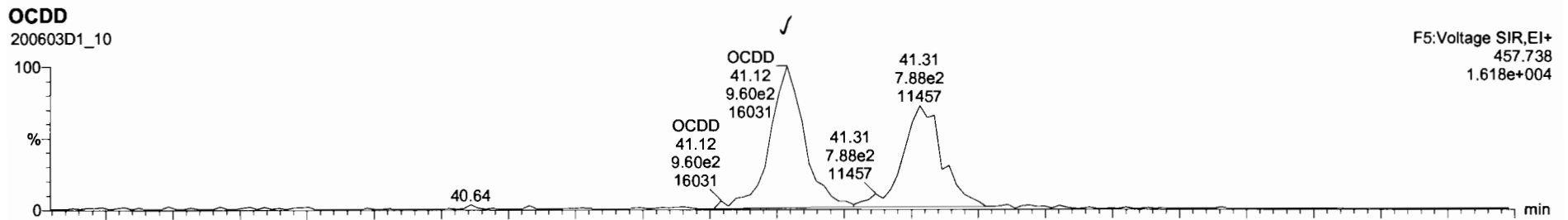




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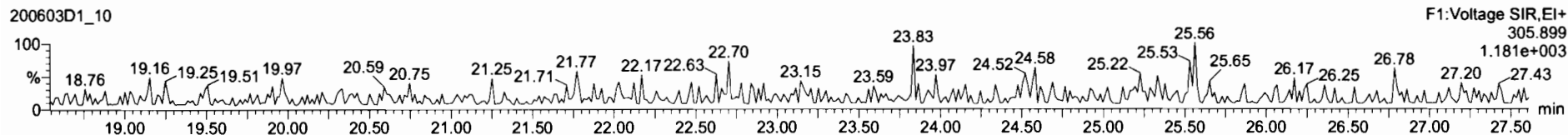
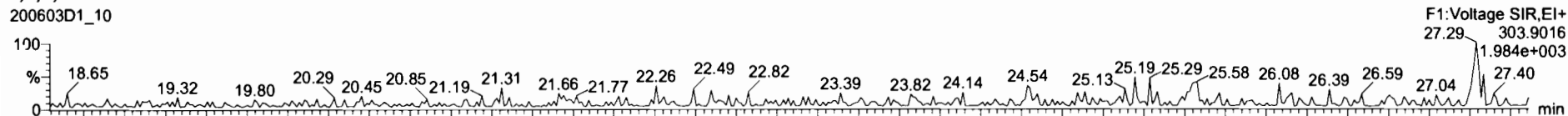


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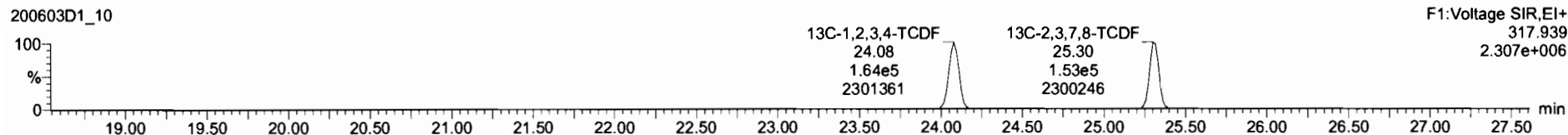
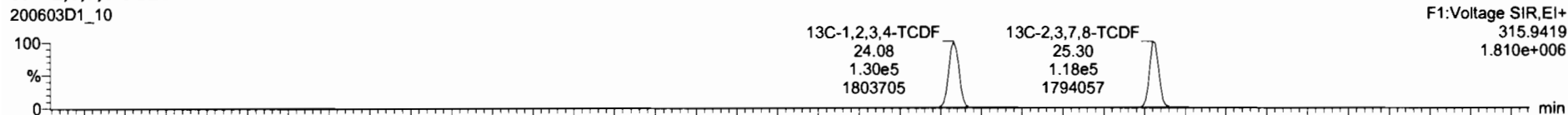
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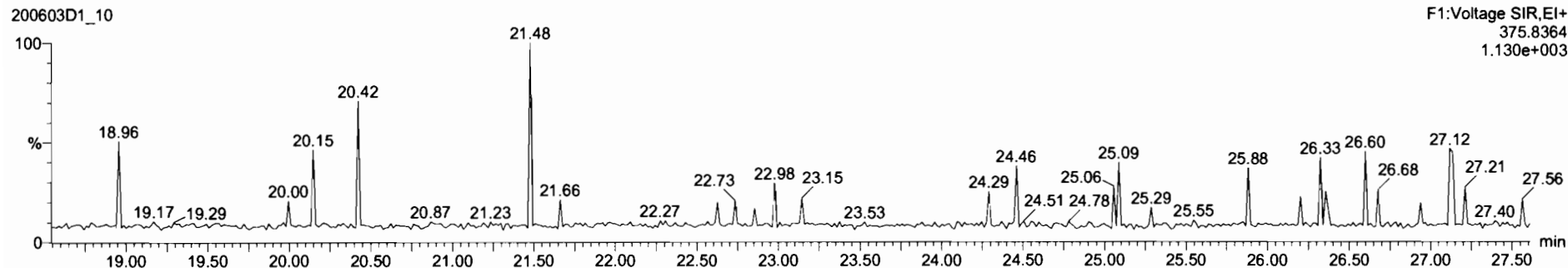
2,3,7,8-TCDF



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



DPE1



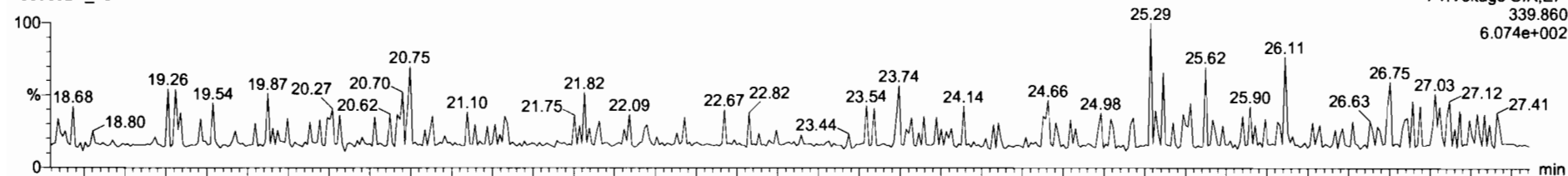
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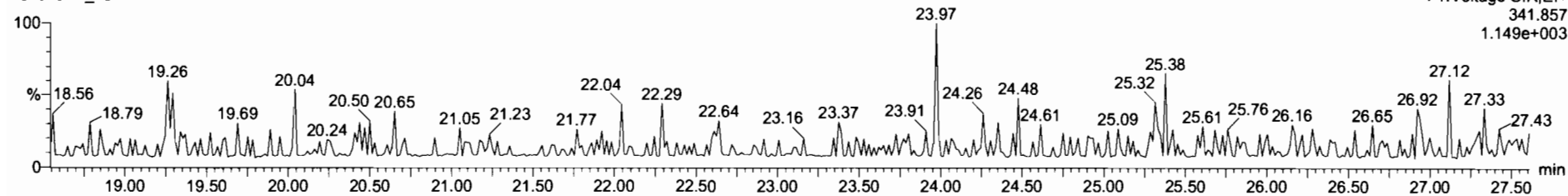
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1st Func. Penta-Furans

200603D1\_10

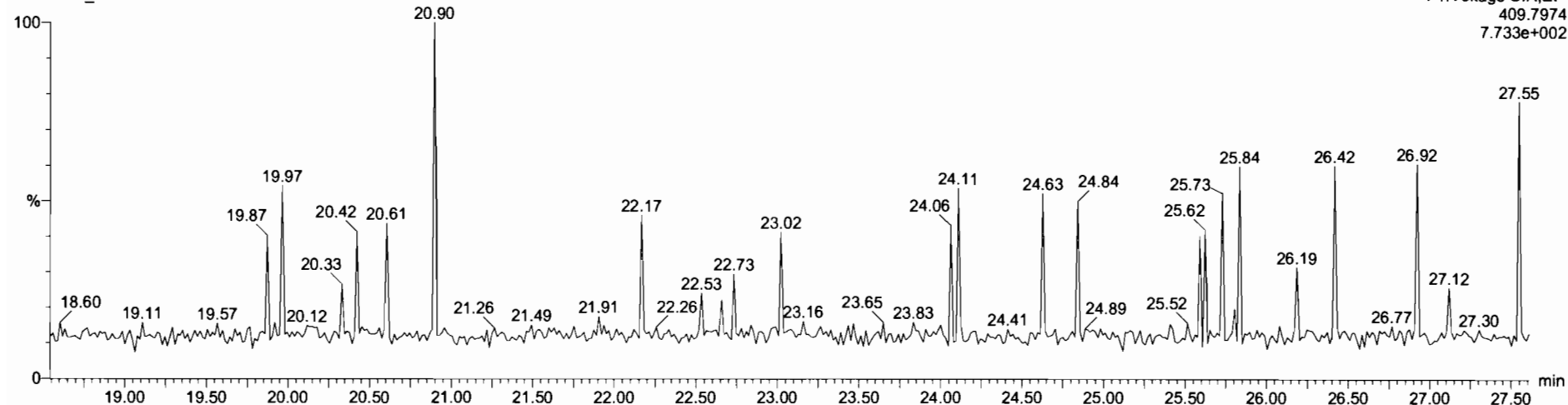


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DPE6

200603D1\_10



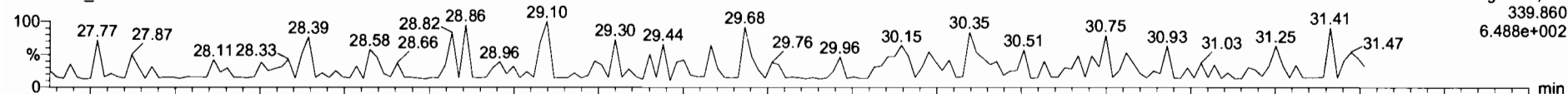
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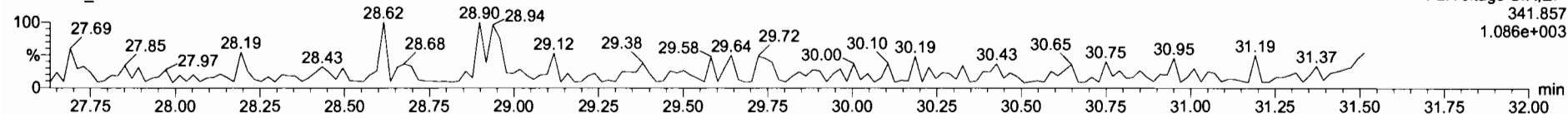
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**1,2,3,7,8-PeCDF**

200603D1\_10

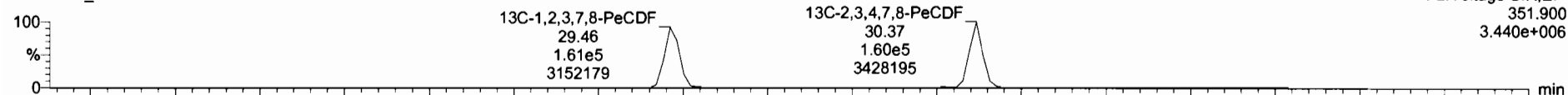


200603D1\_10

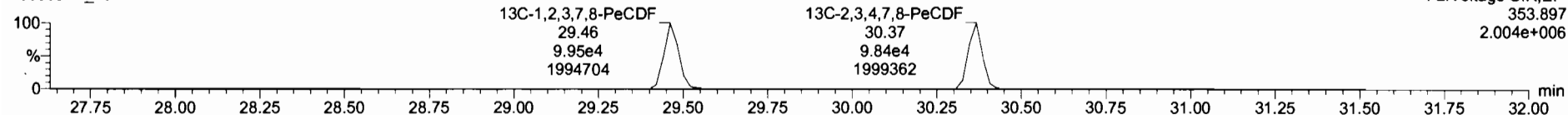


**13C-1,2,3,7,8-PeCDF**

200603D1\_10

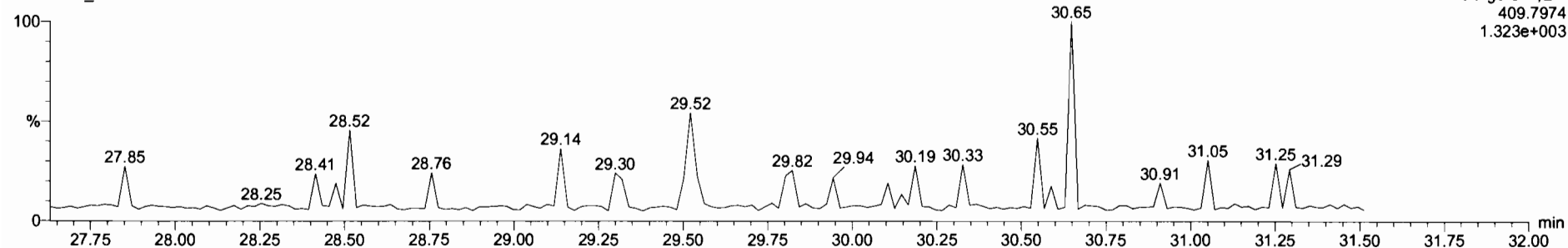


200603D1\_10



**DPE2**

200603D1\_10

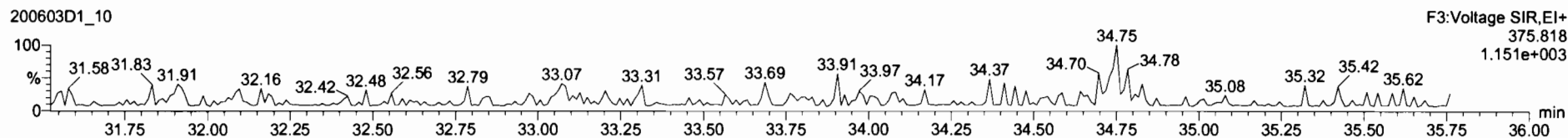
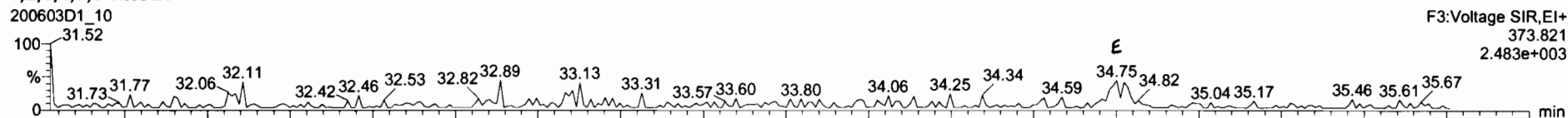


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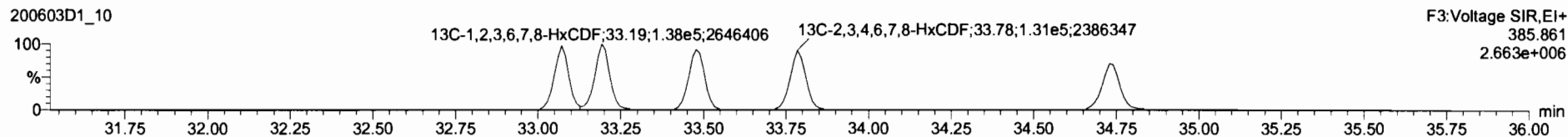
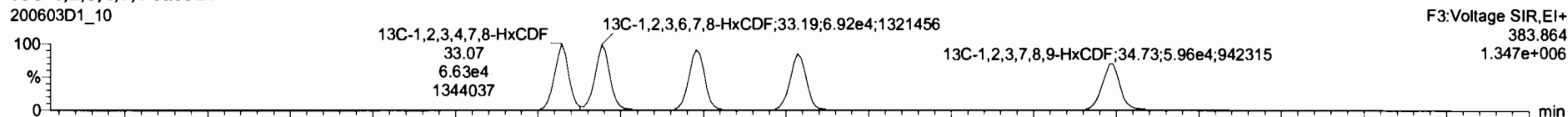
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Printed: Thursday, June 04, 2020 09:49:34 Pacific Daylight Time

Name: 200603D1\_10, Date: 03-Jun-2020, Time: 21:26:43, ID: 2000945-04 PDI-146SC-A-03-04-200426 12.98, Description: PDI-146SC-A-03-04-200426

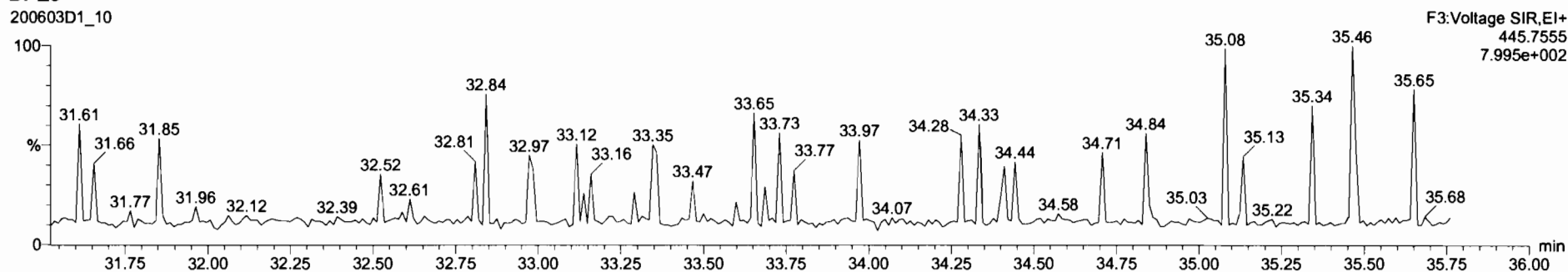
**1,2,3,4,7,8-HxCDF**



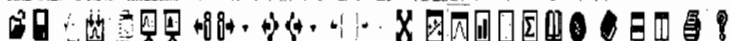
**13C-1,2,3,4,7,8-HxCDF**



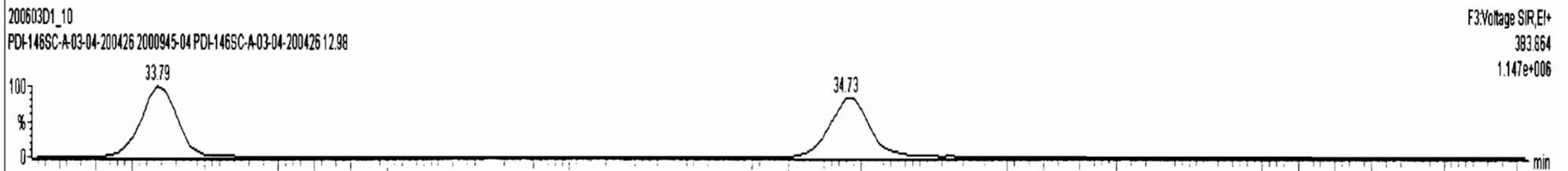
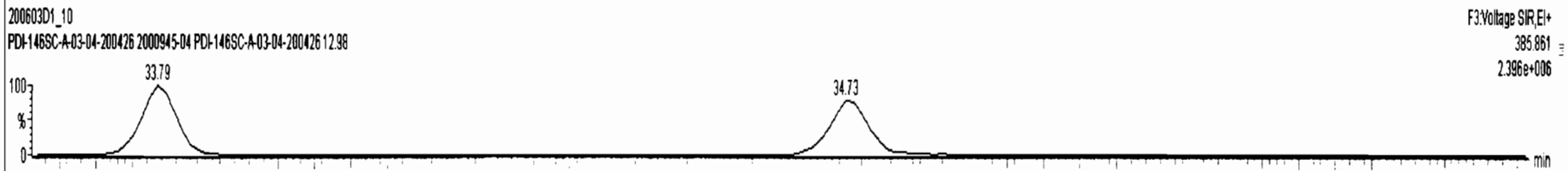
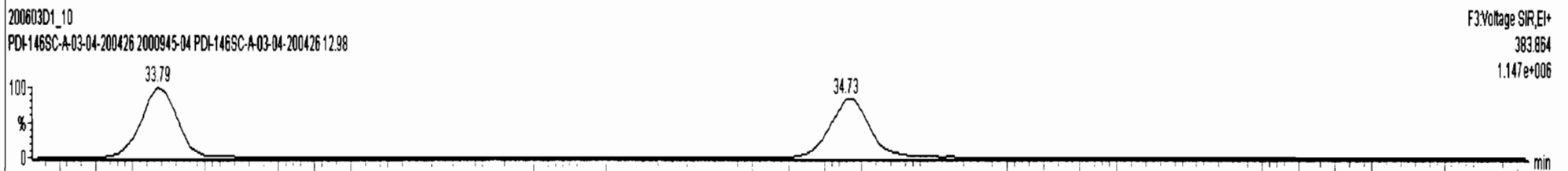
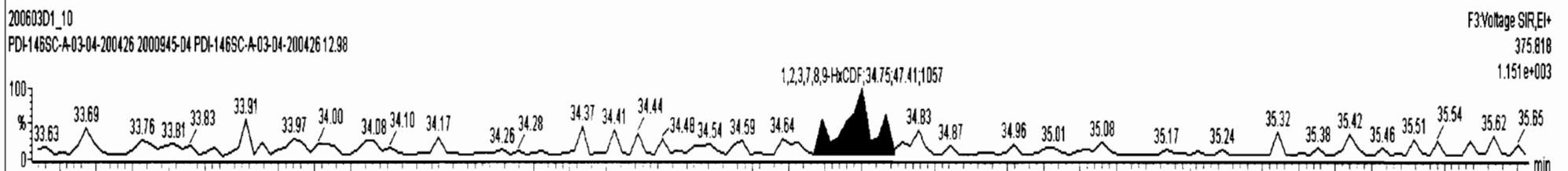
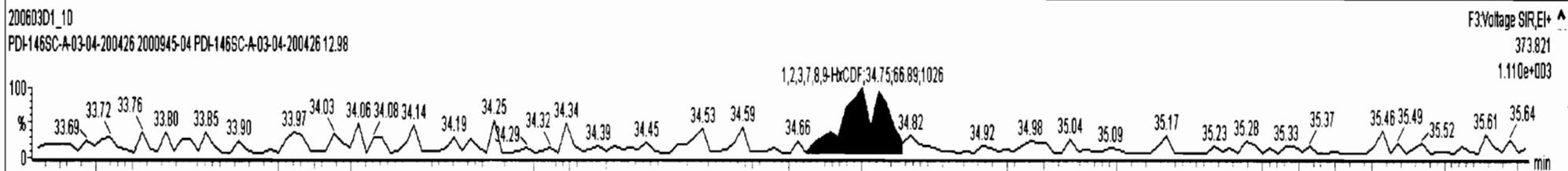
**DPE3**







200603D1\_10\_20060404.PDI-1465C-A-03-04-200426 12.98.FID-1465C-A-03-04-200426



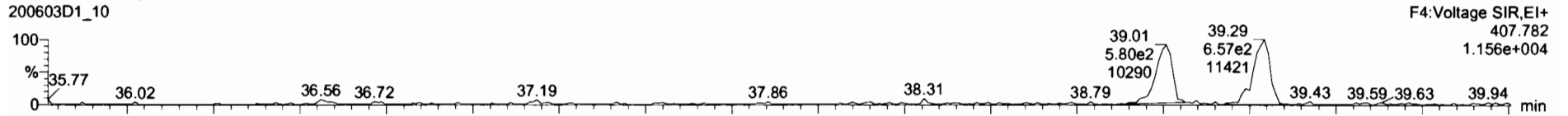
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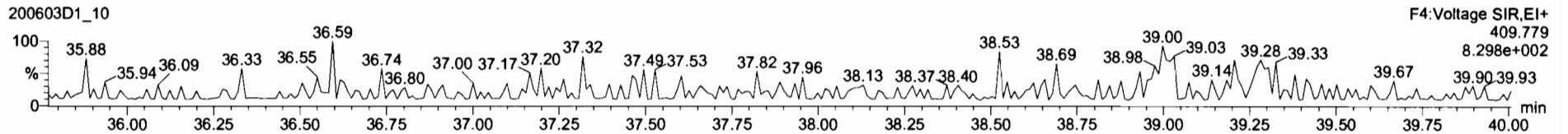
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1,2,3,4,6,7,8-HpCDF

200603D1\_10

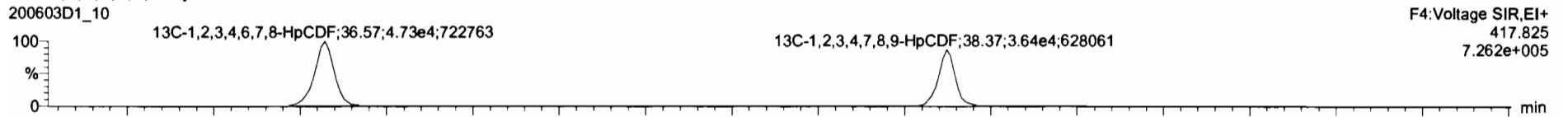


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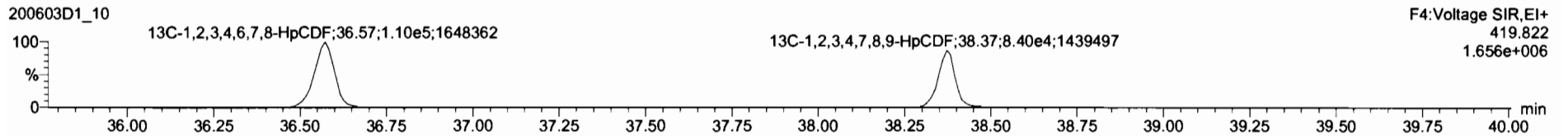


13C-1,2,3,4,6,7,8-HpCDF

200603D1\_10

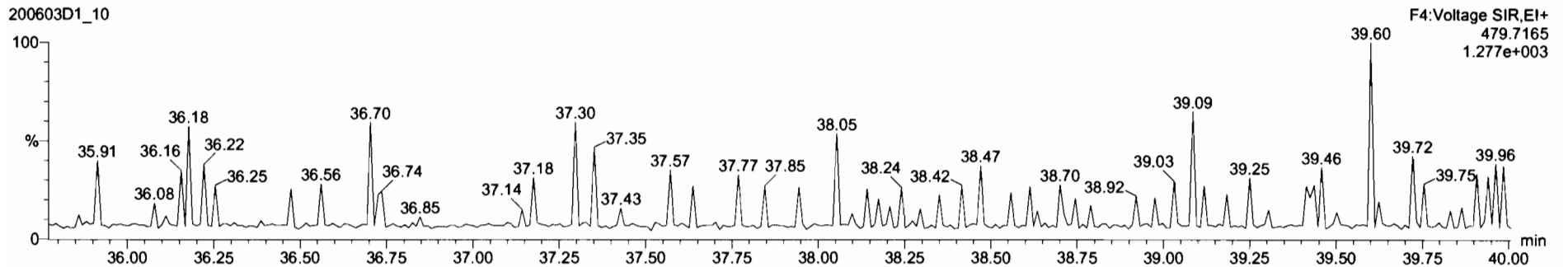


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DPE4

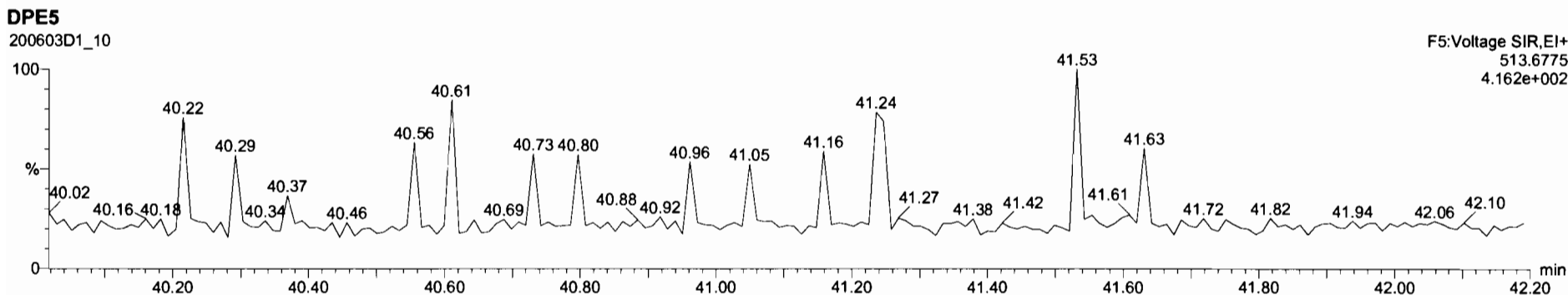
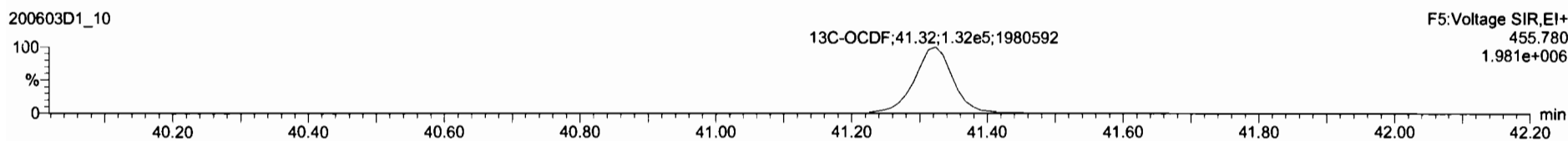
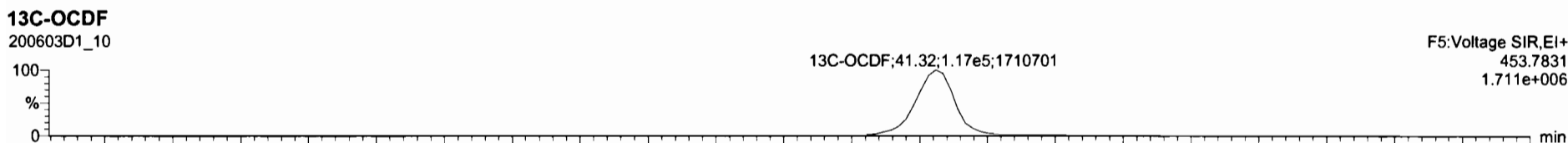
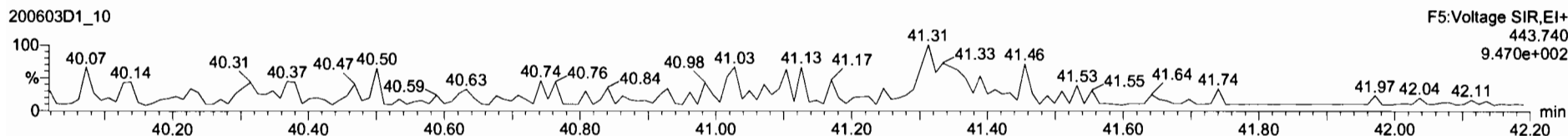
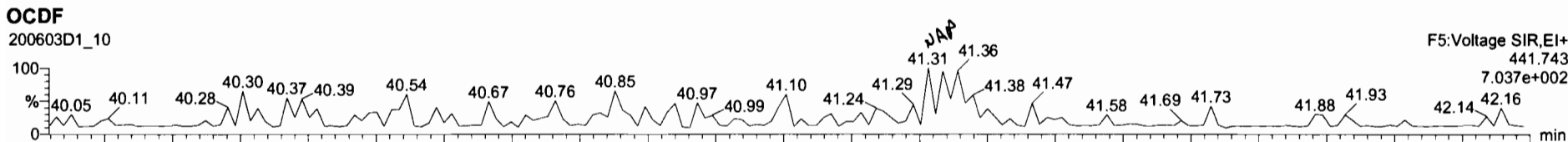
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Printed: Thursday, June 04, 2020 09:49:34 Pacific Daylight Time

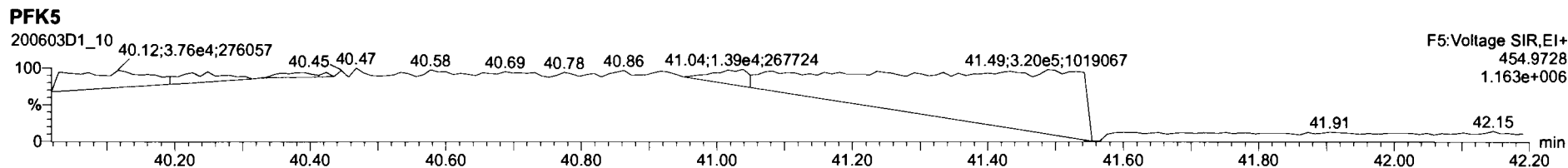
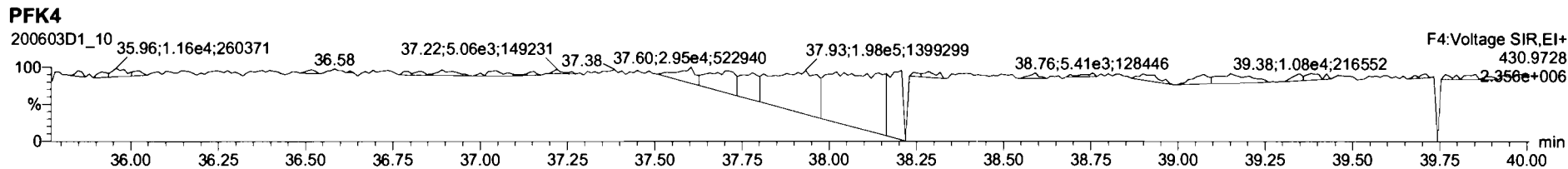
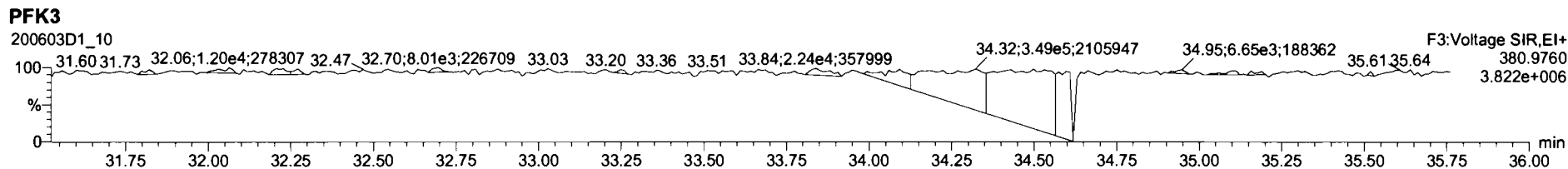
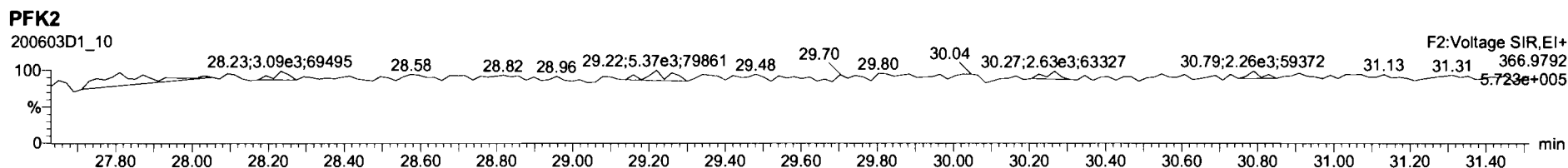
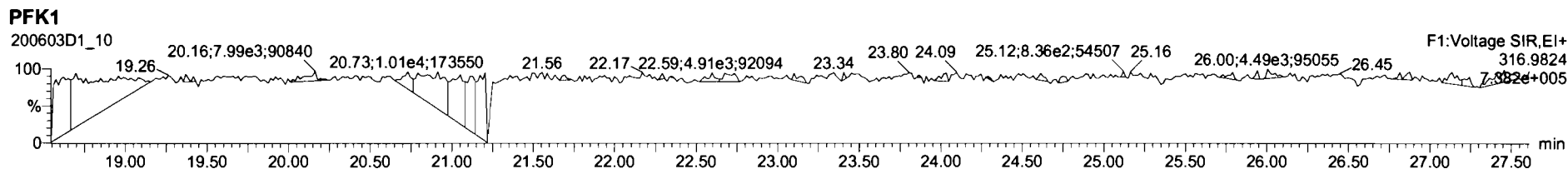
Name: 200603D1\_10, Date: 03-Jun-2020, Time: 21:26:43, ID: 2000945-04 PDI-146SC-A-03-04-200426 12.98, Description: PDI-146SC-A-03-04-200426



Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_10.qld

Last Altered: Thursday, June 04, 2020 09:32:11 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 09:49:34 Pacific Daylight Time

Name: 200603D1\_10, Date: 03-Jun-2020, Time: 21:26:43, ID: 2000945-04 PDI-146SC-A-03-04-200426 12.98, Description: PDI-146SC-A-03-04-200426



Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_9.qld

Last Altered: Friday, June 05, 2020 12:00:41 Pacific Daylight Time

Printed: Friday, June 05, 2020 12:02:25 Pacific Daylight Time

DB 6/5/20

C1 06/05/2020

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24

Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200604D1\_9, Date: 04-Jun-2020, Time: 18:01:30, ID: 2000945-05 PDI-146SC-A-04-05-200426 11.68, Description: PDI-146SC-A-04-05-200426

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.987	10.145	26.158		1.001				0.0894	
2	2 1,2,3,7,8-PeCDD			NO	0.982	10.145	30.690		1.001				0.125	
3	3 1,2,3,4,7,8-HxCDD			NO	1.17	10.145	33.982		1.000				0.165	
4	4 1,2,3,6,7,8-HxCDD			NO	1.04	10.145	34.082		1.000				0.156	
5	5 1,2,3,7,8,9-HxCDD			NO	1.00	10.145	34.412		1.001				0.174	
6	6 1,2,3,4,6,7,8-HpCDD	4.09e2	1.17	NO	0.992	10.145	37.856	37.88	1.000	1.001	0.67980		0.136	0.680
7	7 OCDD	2.72e3	0.95	NO	1.04	10.145	41.115	41.14	1.000	1.001	5.1809		0.196	5.18
8	8 2,3,7,8-TCDF			NO	0.882	10.145	25.357		1.001				0.0805	
9	9 1,2,3,7,8-PeCDF			NO	1.05	10.145	29.502		1.001				0.0569	
10	10 2,3,4,7,8-PeCDF			NO	1.06	10.145	30.397		1.001				0.0647	
11	11 1,2,3,4,7,8-HxCDF			NO	1.08	10.145	33.083		1.000				0.0704	
12	12 1,2,3,6,7,8-HxCDF			NO	1.04	10.145	33.214		1.000				0.0762	
13	13 2,3,4,6,7,8-HxCDF			NO	1.11	10.145	33.830		1.001				0.0772	
14	14 1,2,3,7,8,9-HxCDF			NO	1.06	10.145	34.751		1.000				0.104	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.13	10.145	36.631		1.001				0.119	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.33	10.145	38.383		1.000				0.110	
17	17 OCDF			NO	0.933	10.145	41.334		1.000				0.157	
18	18 13C-2,3,7,8-TCDD	1.82e5	0.78	NO	1.21	10.145	26.226	26.13	1.026	1.022	185.49	94.1	0.317	
19	19 13C-1,2,3,7,8-PeCDD	1.49e5	0.62	NO	0.996	10.145	30.724	30.67	1.202	1.200	183.57	93.1	0.239	
20	20 13C-1,2,3,4,7,8-HxCDD	1.27e5	1.28	NO	0.679	10.145	33.958	33.97	1.014	1.014	207.90	105	0.547	
21	21 13C-1,2,3,6,7,8-HxCDD	1.49e5	1.30	NO	0.850	10.145	34.068	34.08	1.017	1.018	193.69	98.2	0.437	
22	22 13C-1,2,3,7,8,9-HxCDD	1.45e5	1.26	NO	0.798	10.145	34.340	34.38	1.025	1.027	201.61	102	0.465	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.20e5	1.04	NO	0.697	10.145	37.809	37.85	1.129	1.130	189.94	96.3	0.572	
24	24 13C-OCDD	2.00e5	0.86	NO	0.579	10.145	40.836	41.12	1.219	1.228	381.86	96.8	0.492	
25	25 13C-2,3,7,8-TCDF	2.33e5	0.77	NO	1.13	10.145	25.305	25.33	0.990	0.991	176.97	89.8	0.458	
26	26 13C-1,2,3,7,8-PeCDF	2.33e5	1.62	NO	0.996	10.145	29.541	29.48	1.156	1.153	200.44	102	0.688	
27	27 13C-2,3,4,7,8-PeCDF	2.24e5	1.59	NO	0.969	10.145	30.443	30.37	1.191	1.188	198.34	101	0.707	
28	28 13C-1,2,3,4,7,8-HxCDF	1.82e5	0.52	NO	1.06	10.145	33.087	33.08	0.988	0.988	190.01	96.4	0.709	
29	29 13C-1,2,3,6,7,8-HxCDF	1.88e5	0.50	NO	1.18	10.145	33.221	33.20	0.992	0.991	177.06	89.8	0.639	
30	30 13C-2,3,4,6,7,8-HxCDF	1.82e5	0.50	NO	1.06	10.145	33.794	33.80	1.009	1.009	191.09	96.9	0.710	
31	31 13C-1,2,3,7,8,9-HxCDF	1.64e5	0.51	NO	0.879	10.145	34.695	34.75	1.036	1.038	206.03	105	0.854	

Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_9.qld

Last Altered: Friday, June 05, 2020 12:00:41 Pacific Daylight Time

Printed: Friday, June 05, 2020 12:02:25 Pacific Daylight Time

Name: 200604D1\_9, Date: 04-Jun-2020, Time: 18:01:30, ID: 2000945-05 PDI-146SC-A-04-05-200426 11.68, Description: PDI-146SC-A-04-05-200426

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.47e5	0.43	NO	0.893	10.145	36.403	36.59	1.087	1.093	182.00	92.3	0.504	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.10e5	0.43	NO	0.613	10.145	38.412	38.38	1.147	1.146	198.67	101	0.733	
34	34 13C-OCDF	2.47e5	0.87	NO	0.741	10.145	40.991	41.33	1.224	1.234	369.36	93.7	0.382	
35	35 37Cl-2,3,7,8-TCDD	6.87e4			1.18	10.145	26.223	26.14	1.026	1.023	71.628	90.8	0.0824	
36	36 13C-1,2,3,4-TCDD	1.60e5	0.78	NO	1.00	10.145	25.480	25.56	1.000	1.000	197.15	100	0.382	
37	37 13C-1,2,3,4-TCDF	2.30e5	0.79	NO	1.00	10.145	24.020	24.11	1.000	1.000	197.15	100	0.516	
38	38 13C-1,2,3,4,6,9-HxCDF	1.78e5	0.50	NO	1.00	10.145	33.530	33.49	1.000	1.000	197.15	100	0.750	
39	39 Total Tetra-Dioxins				0.987	10.145	24.620		0.000				0.0555	
40	40 Total Penta-Dioxins				0.982	10.145	29.960		0.000				0.0553	
41	41 Total Hexa-Dioxins				1.04	10.145	33.635		0.000		0.42692		0.170	0.556
42	42 Total Hepta-Dioxins				0.992	10.145	37.640		0.000		1.7361		0.136	1.74
43	43 Total Tetra-Furans				0.882	10.145	23.610		0.000				0.0331	
44	44 1st Func. Penta-Furans				1.05	10.145	27.090		0.000				0.0138	
45	45 Total Penta-Furans				1.05	10.145	29.275		0.000				0.0283	
46	46 Total Hexa-Furans				1.11	10.145	33.555		0.000				0.0419	
47	47 Total Hepta-Furans				1.13	10.145	37.835		0.000				0.0585	

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_9.qld

Last Altered: Friday, June 05, 2020 12:00:41 Pacific Daylight Time

Printed: Friday, June 05, 2020 12:02:25 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24

Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200604D1\_9, Date: 04-Jun-2020, Time: 18:01:30, ID: 2000945-05 PDI-146SC-A-04-05-200426 11.68, Description: PDI-146SC-A-04-05-200426

**Tetra-Dioxins**

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

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.45	3.031e3	3.455e3	1.712e2	1.441e2	1.19	NO	3.153e2	0.42692	0.42692	0.170
2	Total Hexa-Dioxins	33.30	2.014e3	1.172e3	7.165e1	4.240e1	1.69	YES	0.000e0	0.00000	0.12859	0.170

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.01	5.146e3	4.289e3	3.064e2	3.290e2	0.93	NO	6.354e2	1.0563	1.0563	0.136
2	1,2,3,4,6,7,8-HpCDD	37.88	3.478e3	3.026e3	2.201e2	1.888e2	1.17	NO	4.089e2	0.67980	0.67980	0.136

**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:\VG7.PRO\Results\200604D1\200604D1\_9.qld

Last Altered: Friday, June 05, 2020 12:00:41 Pacific Daylight Time  
Printed: Friday, June 05, 2020 12:02:25 Pacific Daylight Time

Name: 200604D1\_9, Date: 04-Jun-2020, Time: 18:01:30, ID: 2000945-05 PDI-146SC-A-04-05-200426 11.68, Description: PDI-146SC-A-04-05-200426

**Penta-Furans**

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

**Hexa-Furans**

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

**Hepta-Furans**

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



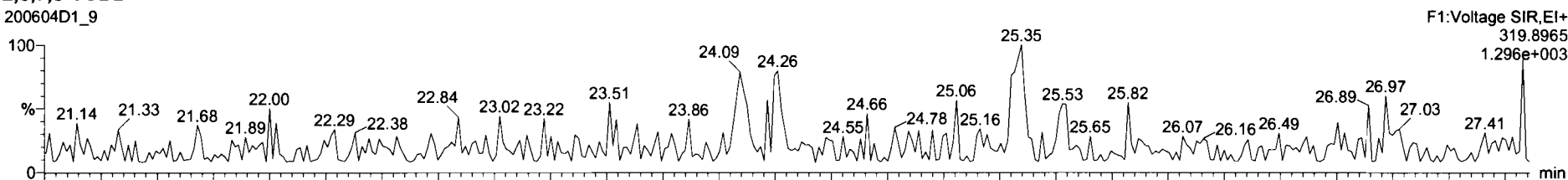
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Printed: Friday, June 05, 2020 09:44:33 Pacific Daylight Time

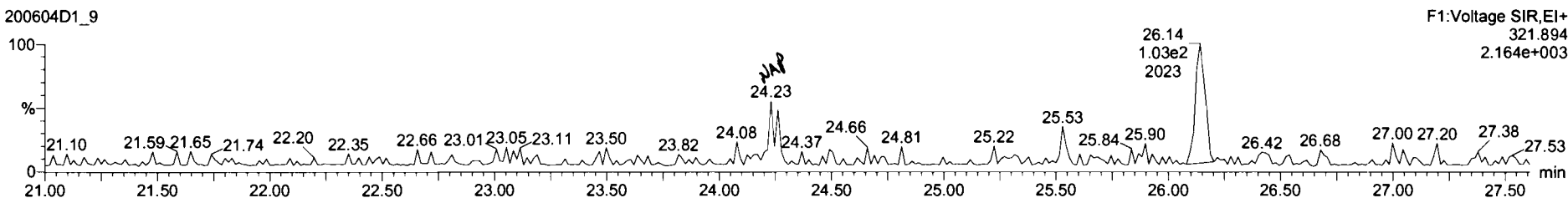
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Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200604D1\_9, Date: 04-Jun-2020, Time: 18:01:30, ID: 2000945-05 PDI-146SC-A-04-05-200426 11.68, Description: PDI-146SC-A-04-05-200426

2,3,7,8-TCDD  
200604D1\_9



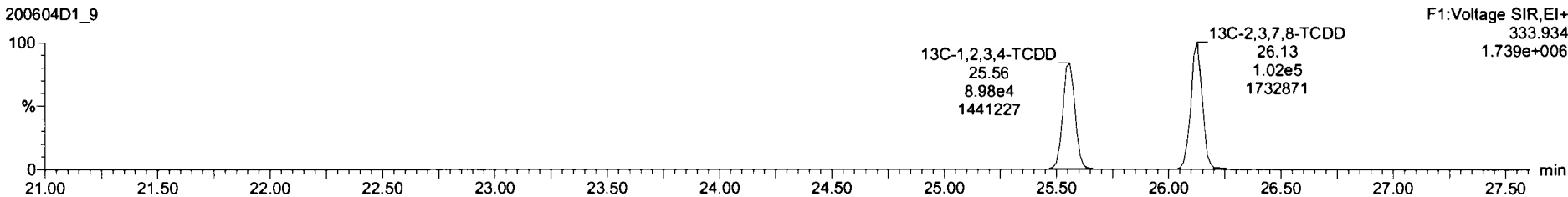
200604D1\_9



13C-2,3,7,8-TCDD  
200604D1\_9



200604D1\_9

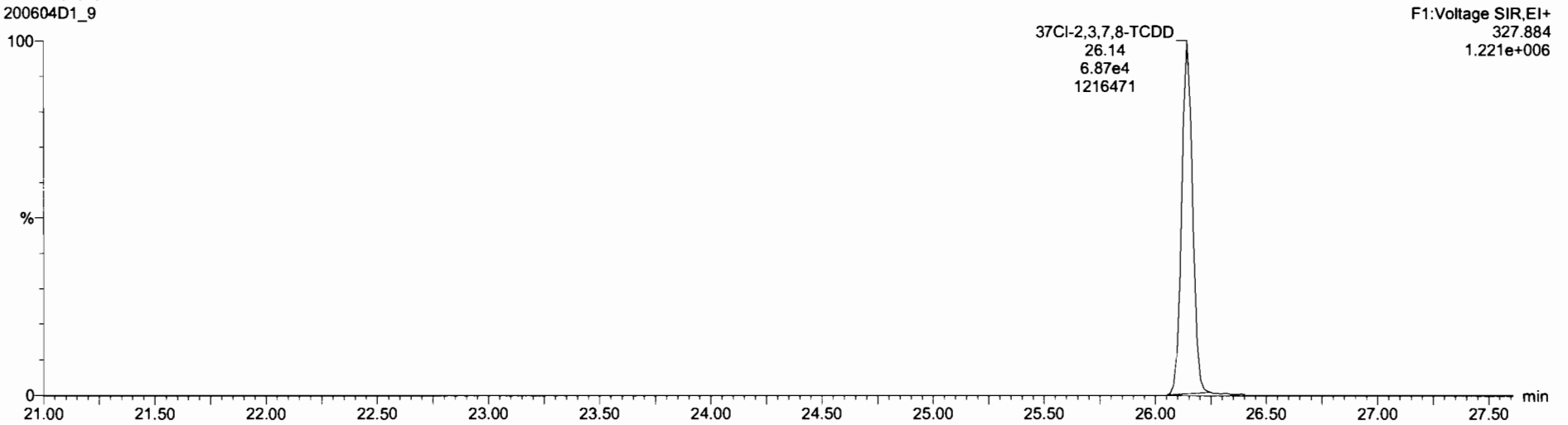


Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_9.qld

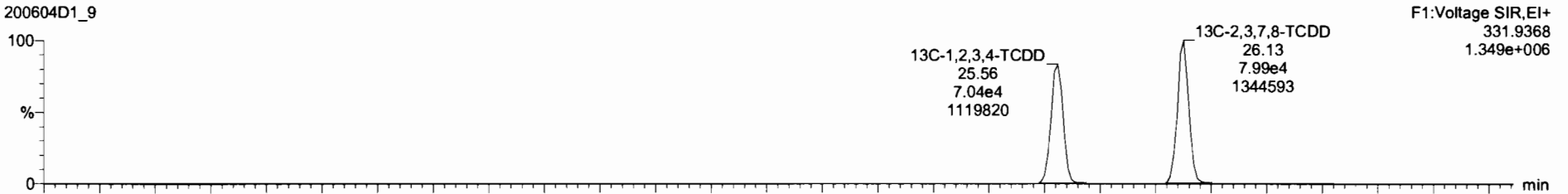
Last Altered: Friday, June 05, 2020 09:35:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:44:33 Pacific Daylight Time

Name: 200604D1\_9, Date: 04-Jun-2020, Time: 18:01:30, ID: 2000945-05 PDI-146SC-A-04-05-200426 11.68, Description: PDI-146SC-A-04-05-200426

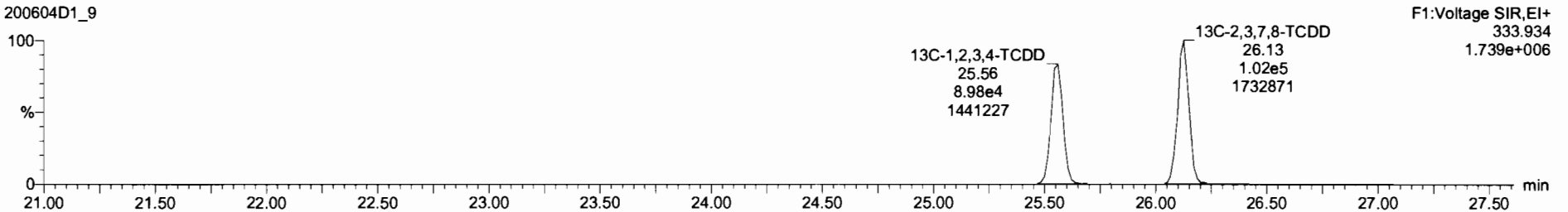
**37Cl-2,3,7,8-TCDD**  
200604D1\_9



**13C-1,2,3,4-TCDD**  
200604D1\_9



200604D1\_9



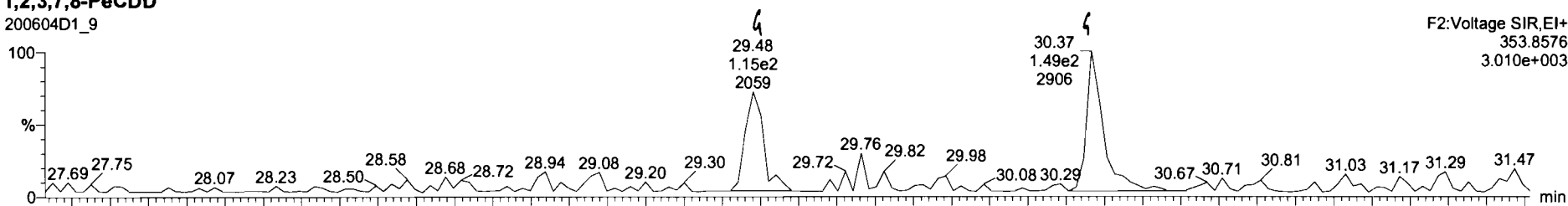
Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_9.qld

Last Altered: Friday, June 05, 2020 09:35:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:44:33 Pacific Daylight Time

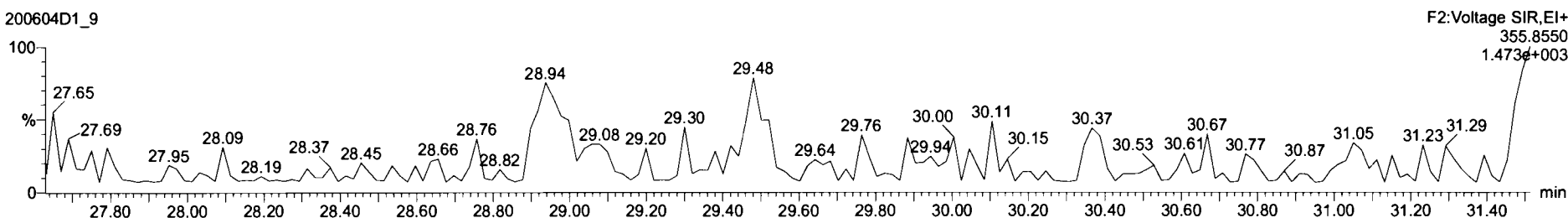
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**1,2,3,7,8-PeCDD**

200604D1\_9

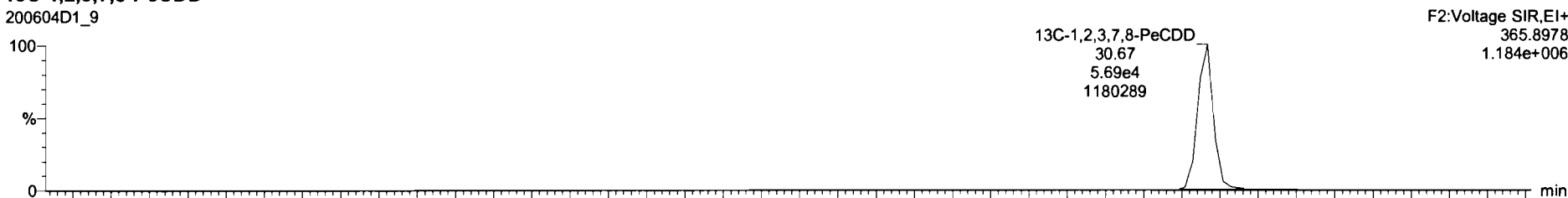


200604D1\_9

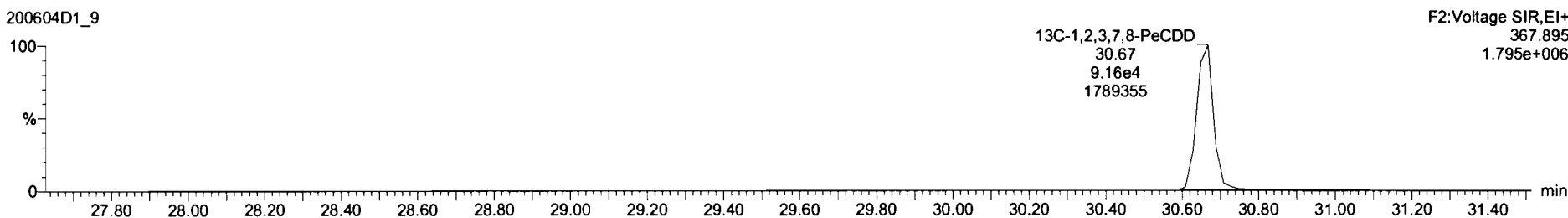


**13C-1,2,3,7,8-PeCDD**

200604D1\_9



200604D1\_9

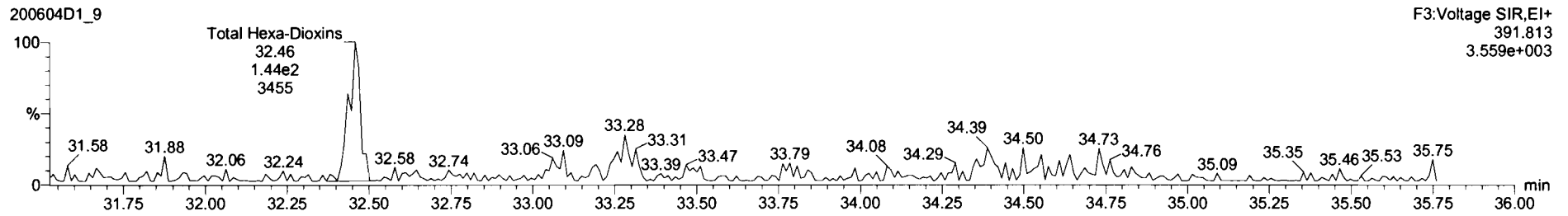
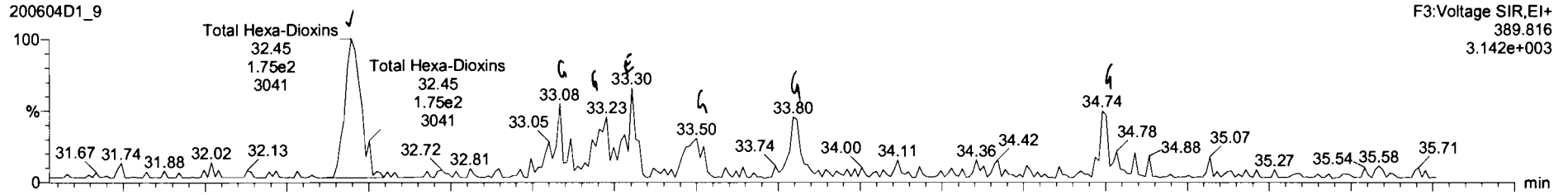


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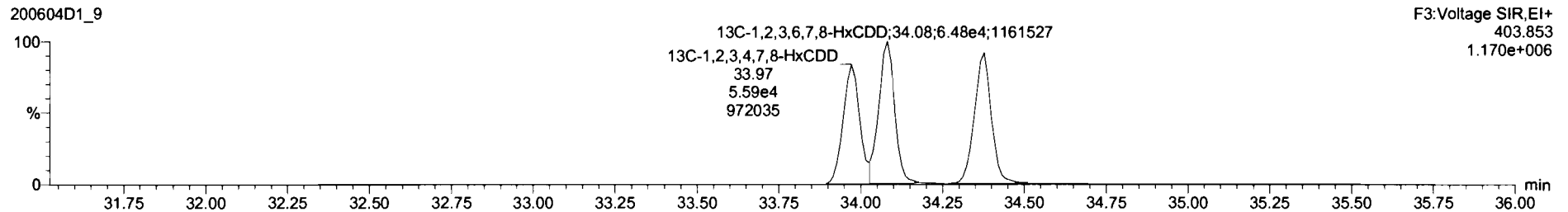
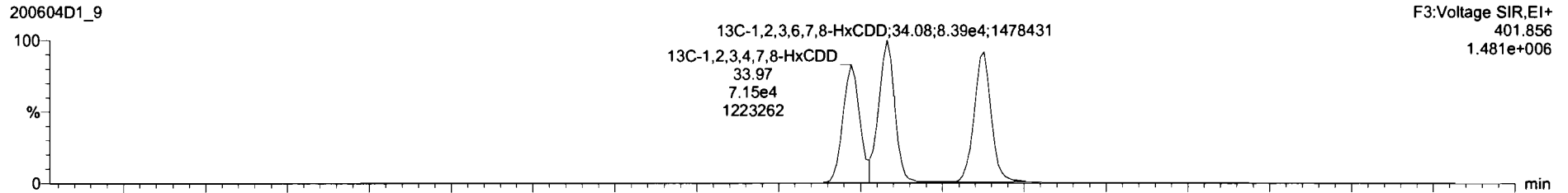
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Name: 200604D1\_9, Date: 04-Jun-2020, Time: 18:01:30, ID: 2000945-05 PDI-146SC-A-04-05-200426 11.68, Description: PDI-146SC-A-04-05-200426

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

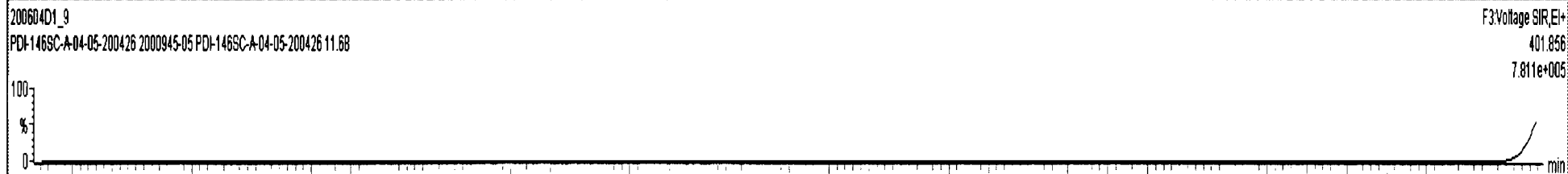
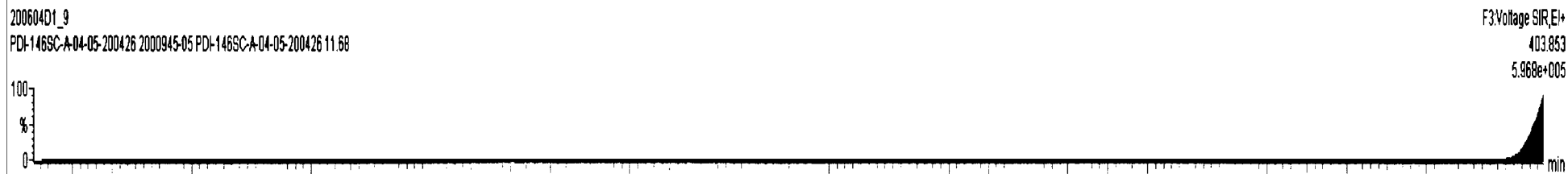
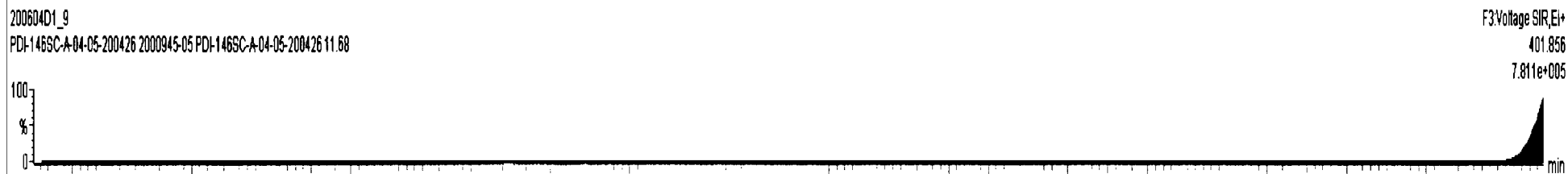
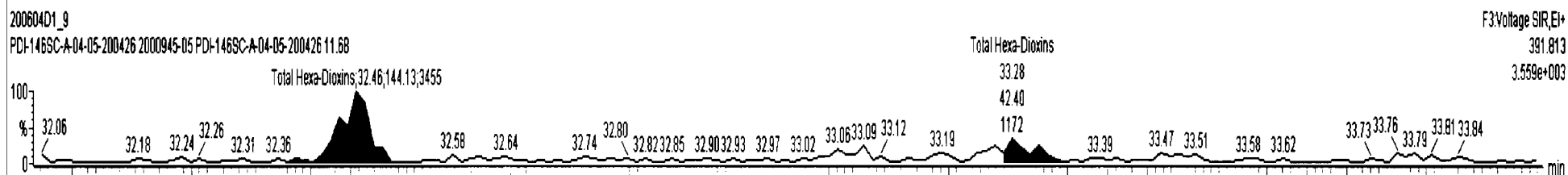
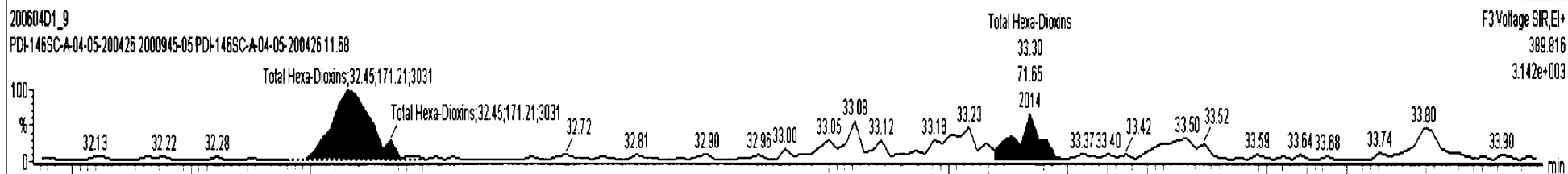


13C-1,2,3,4,7,8-HxCDD





20060401\_9\_20060416.FID\_0405200426\_20060416.FID\_0405200426\_20060416.FID\_0405200426

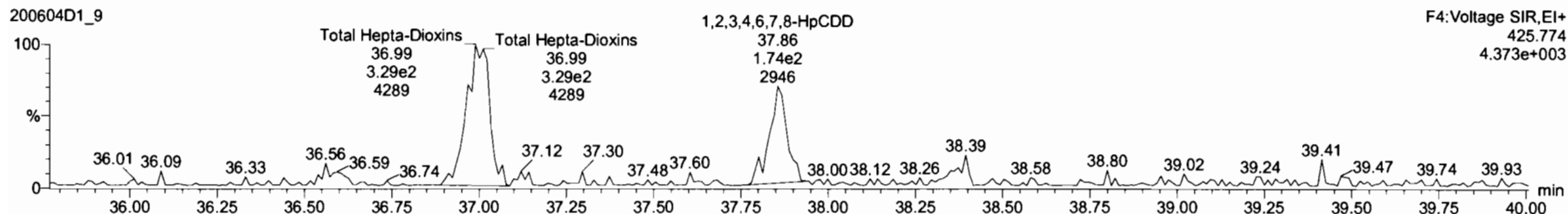
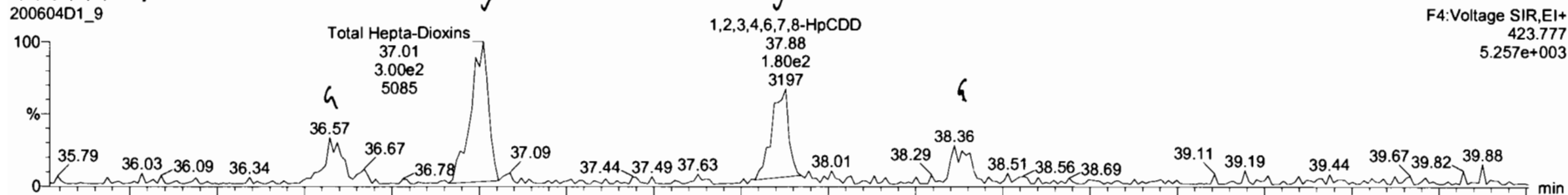


Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_9.qld

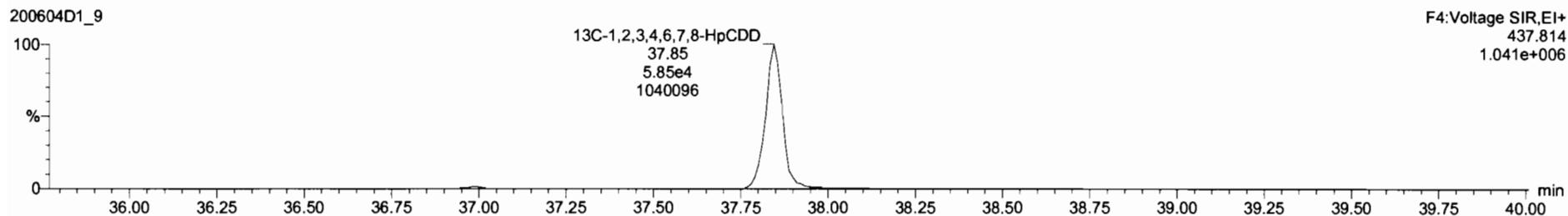
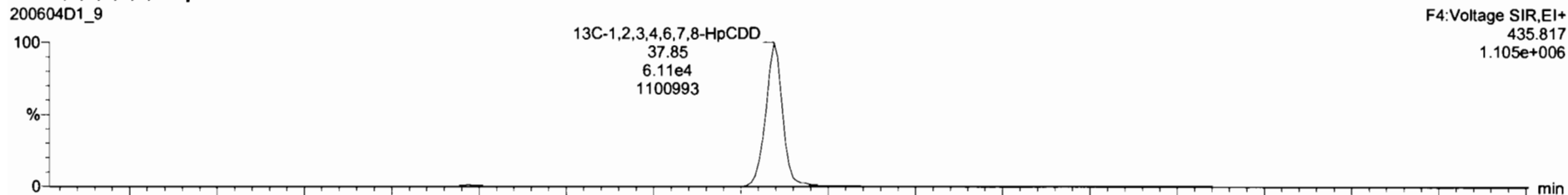
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Printed: Friday, June 05, 2020 09:44:33 Pacific Daylight Time

Name: 200604D1\_9, Date: 04-Jun-2020, Time: 18:01:30, ID: 2000945-05 PDI-146SC-A-04-05-200426 11.68, Description: PDI-146SC-A-04-05-200426

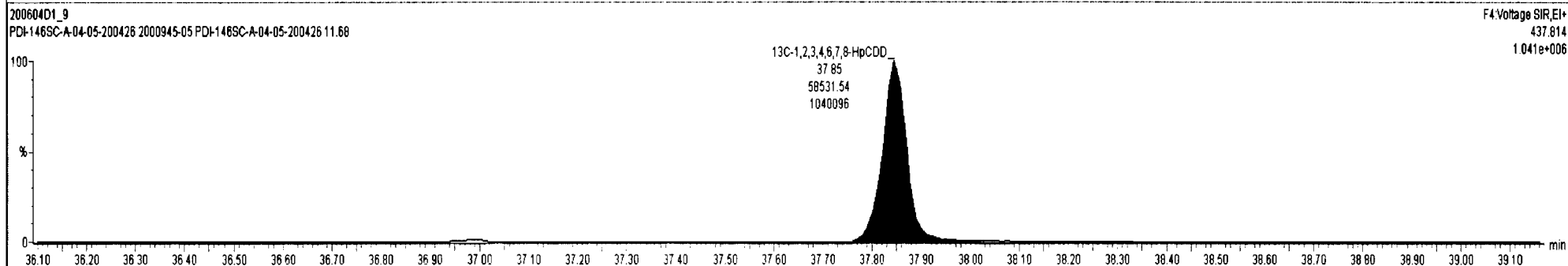
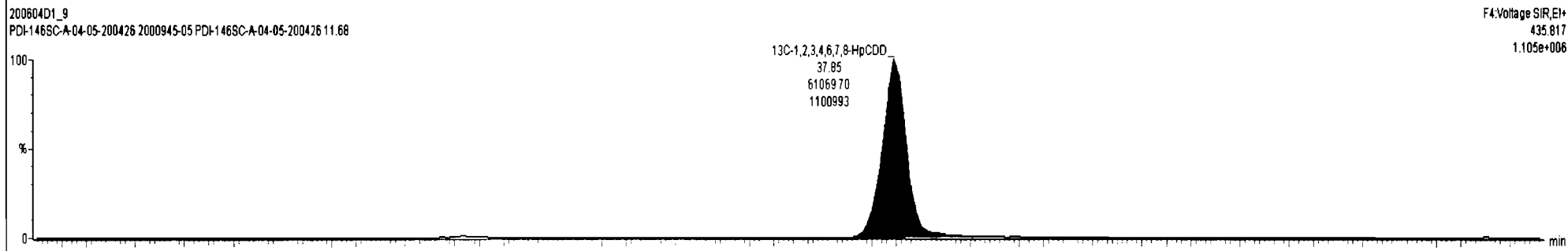
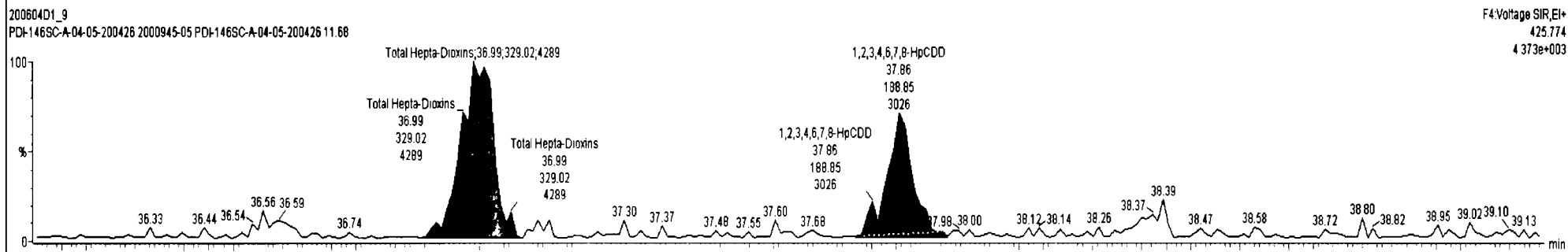
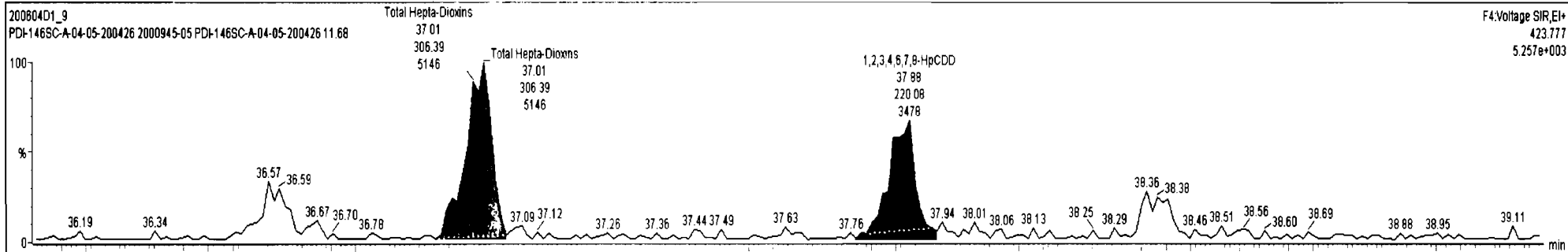
1,2,3,4,6,7,8-HpCDD



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



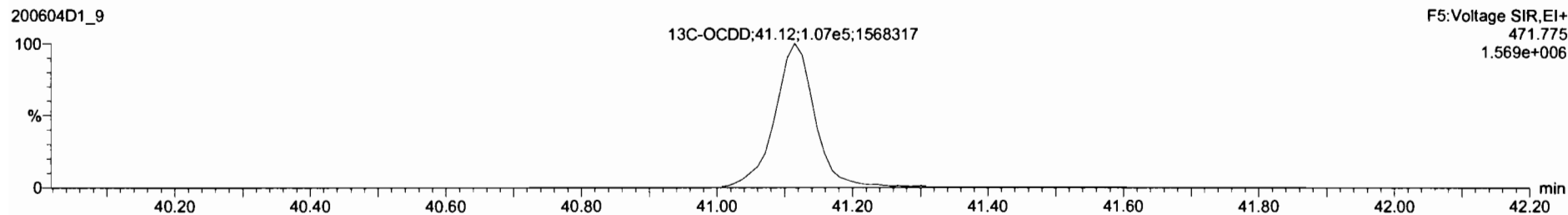
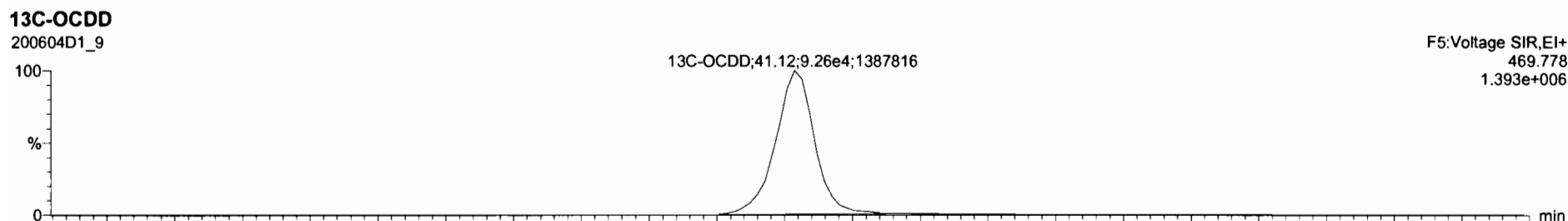
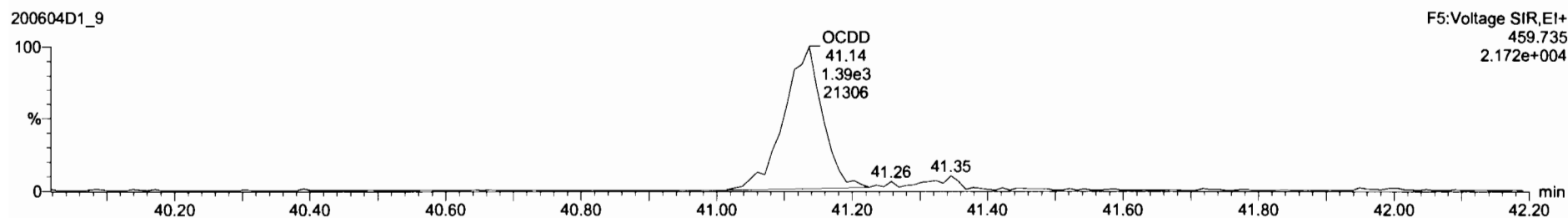
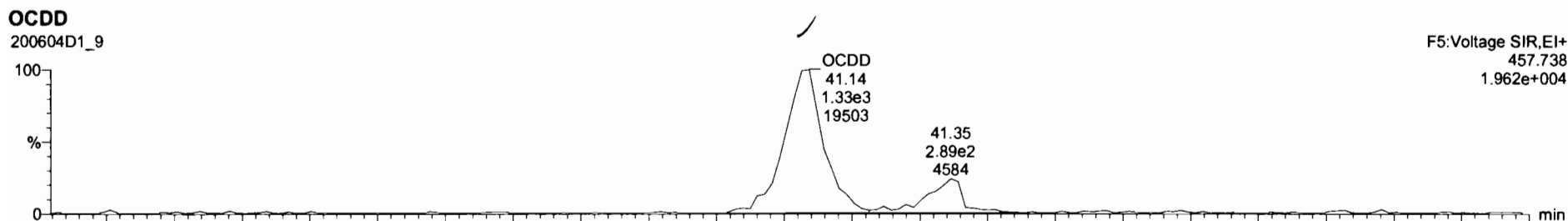
200604D1\_9 - 2000945-05 PDI-146SC-A-04-05-200426 11.68 min - PDI-146SC-A-04-05-200426



Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_9.qld

Last Altered: Friday, June 05, 2020 09:35:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:44:33 Pacific Daylight Time

Name: 200604D1\_9, Date: 04-Jun-2020, Time: 18:01:30, ID: 2000945-05 PDI-146SC-A-04-05-200426 11.68, Description: PDI-146SC-A-04-05-200426



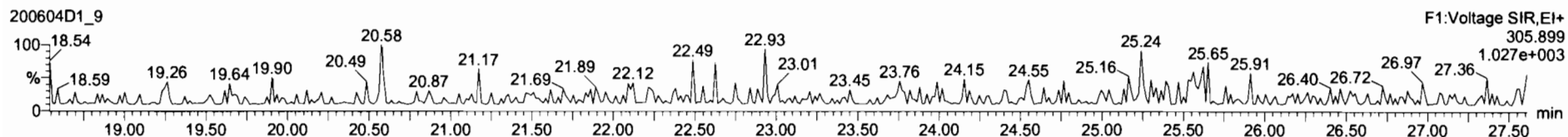
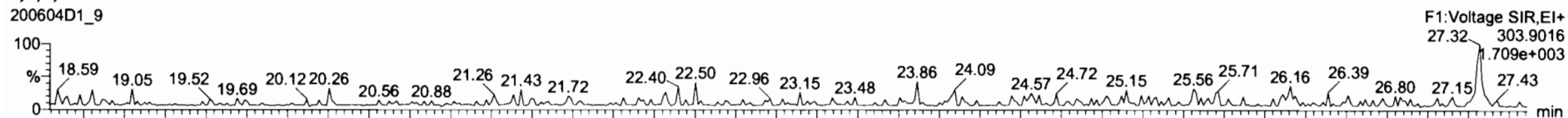


Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_9.qld

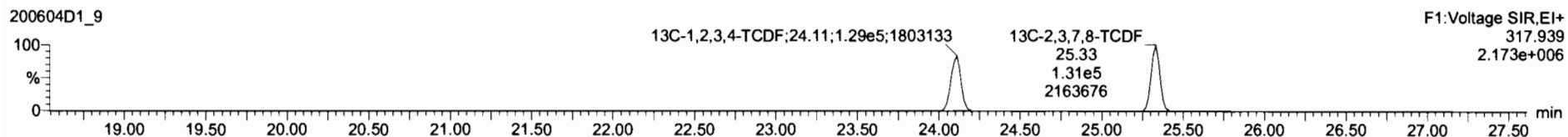
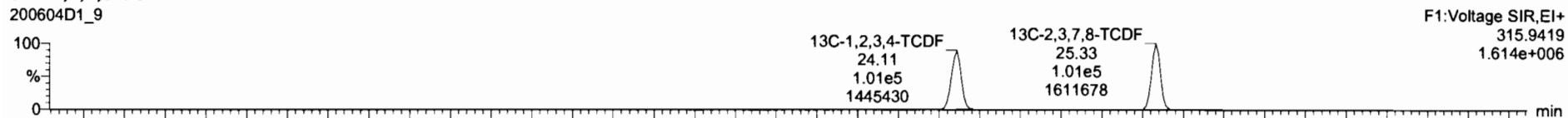
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Name: 200604D1\_9, Date: 04-Jun-2020, Time: 18:01:30, ID: 2000945-05 PDI-146SC-A-04-05-200426 11.68, Description: PDI-146SC-A-04-05-200426

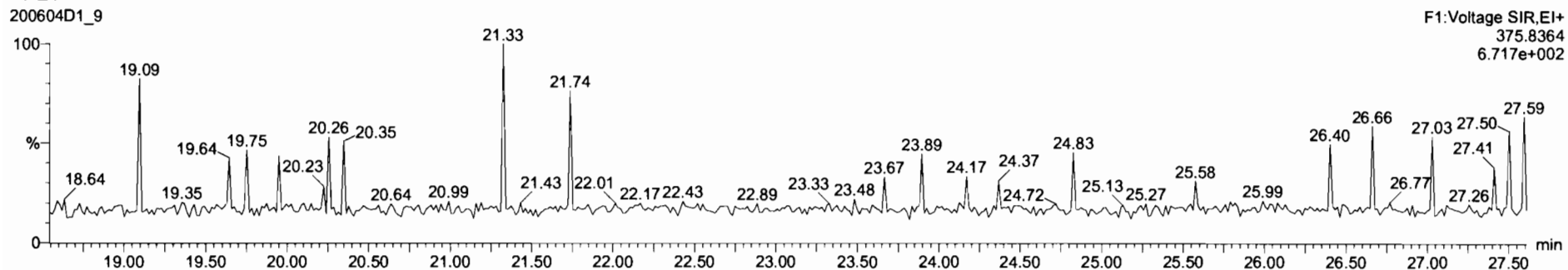
**2,3,7,8-TCDF**



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



**DPE1**



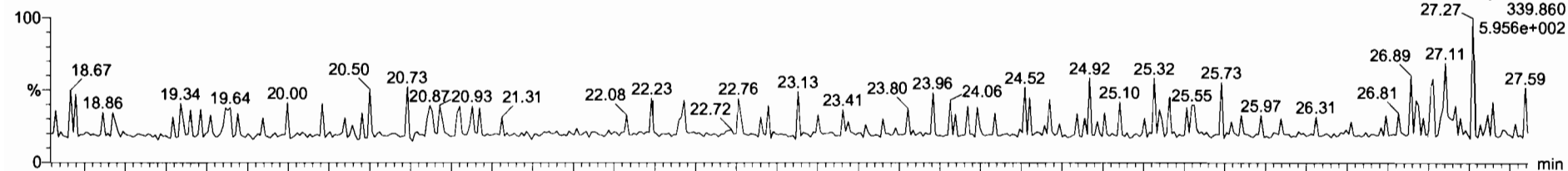
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Last Altered: Friday, June 05, 2020 09:35:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:44:33 Pacific Daylight Time

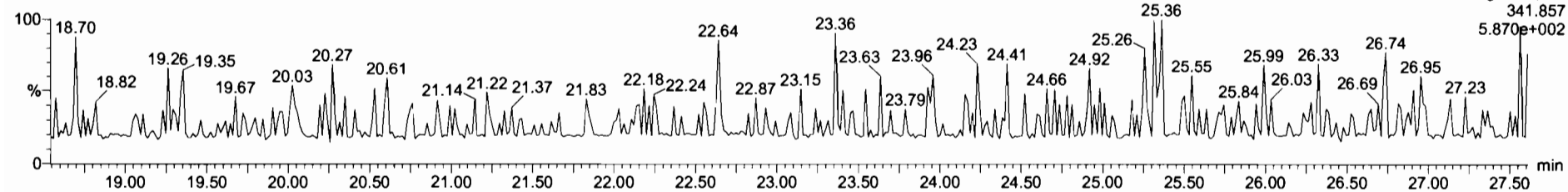
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200604D1\_9

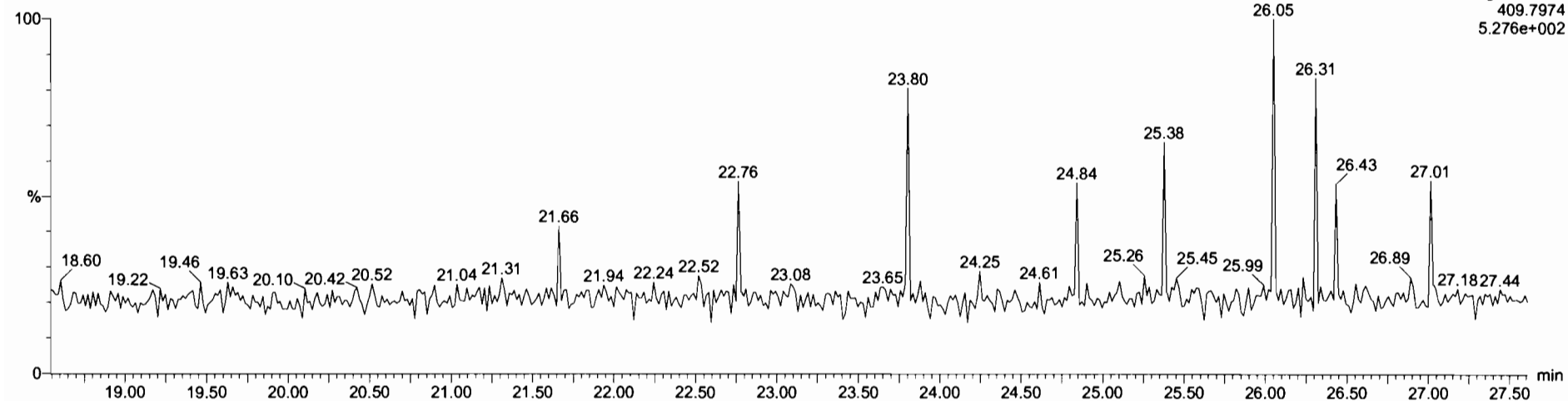


200604D1\_9



DPE6

200604D1\_9



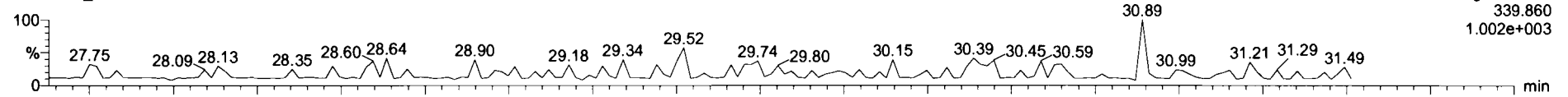
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Printed: Friday, June 05, 2020 09:44:33 Pacific Daylight Time

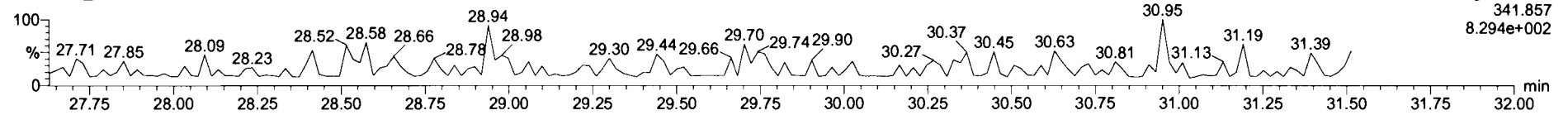
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**1,2,3,7,8-PeCDF**

200604D1\_9

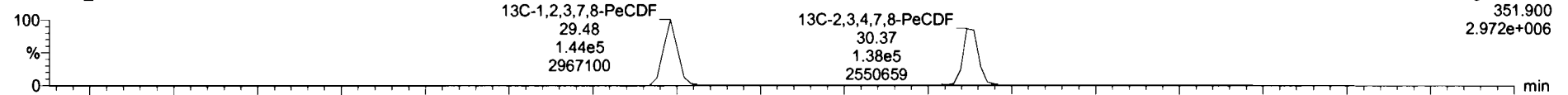


200604D1\_9

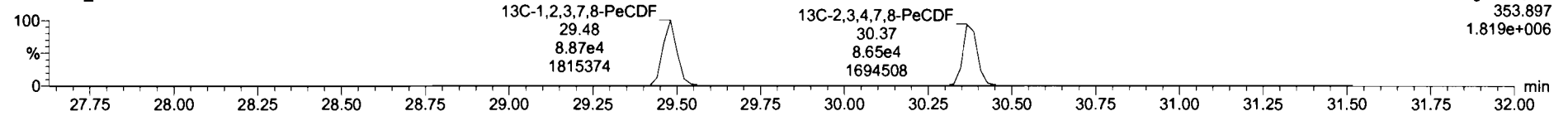


**13C-1,2,3,7,8-PeCDF**

200604D1\_9

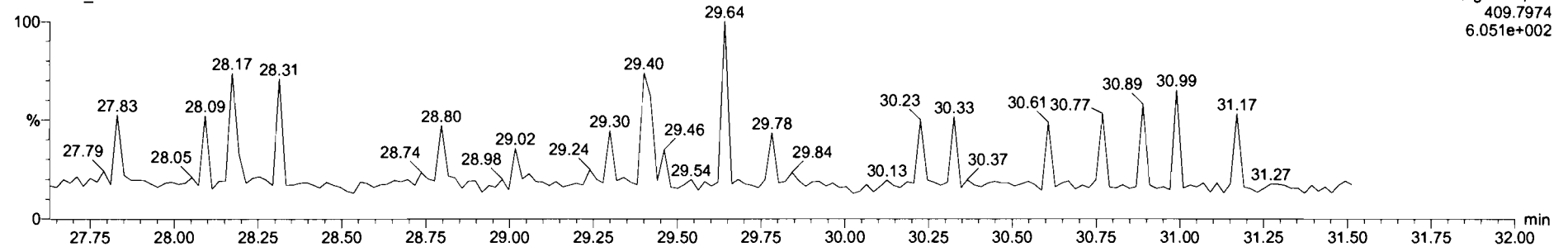


200604D1\_9



**DPE2**

200604D1\_9

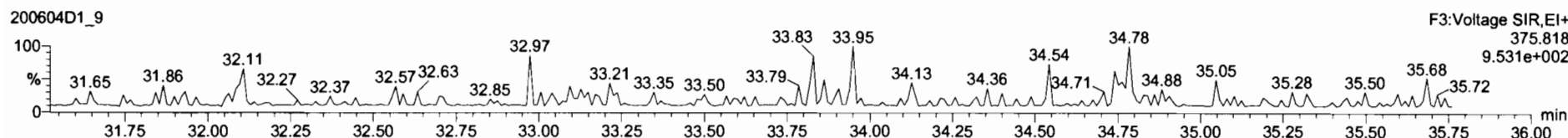
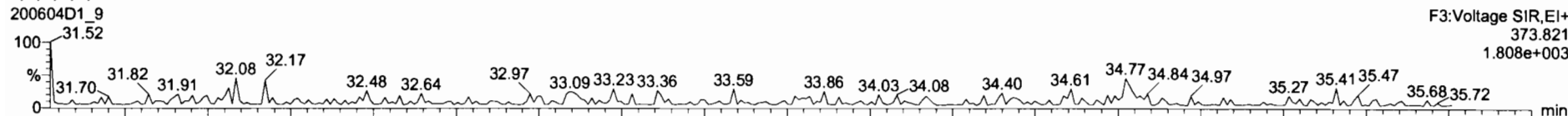


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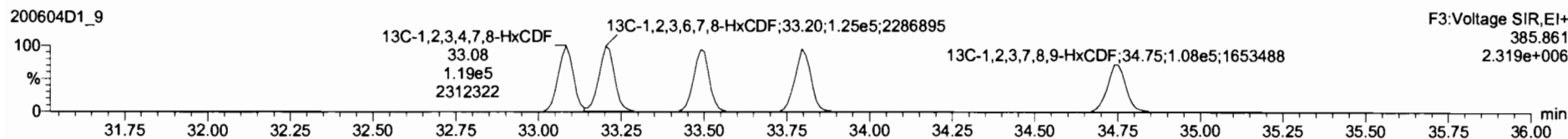
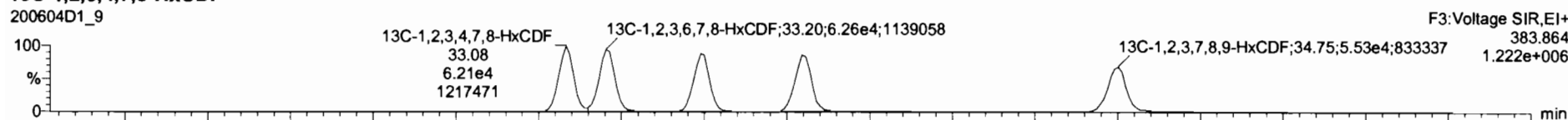
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Name: 200604D1\_9, Date: 04-Jun-2020, Time: 18:01:30, ID: 2000945-05 PDI-146SC-A-04-05-200426 11.68, Description: PDI-146SC-A-04-05-200426

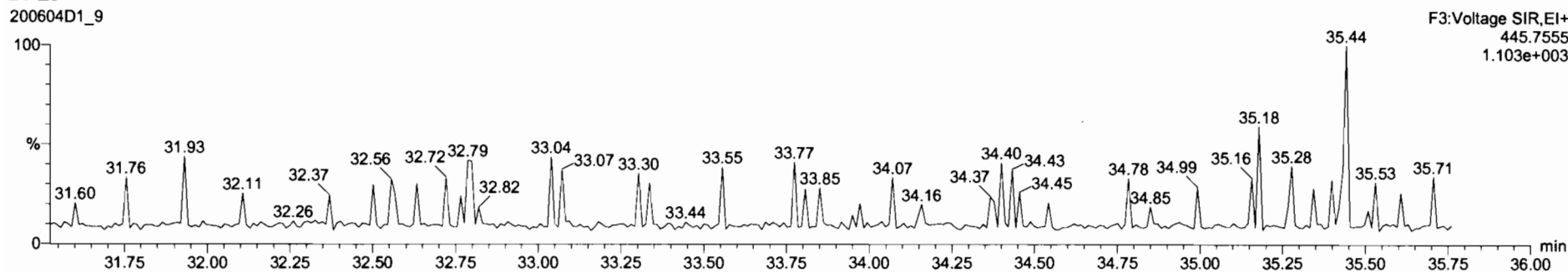
1,2,3,4,7,8-HxCDF



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



DPE3



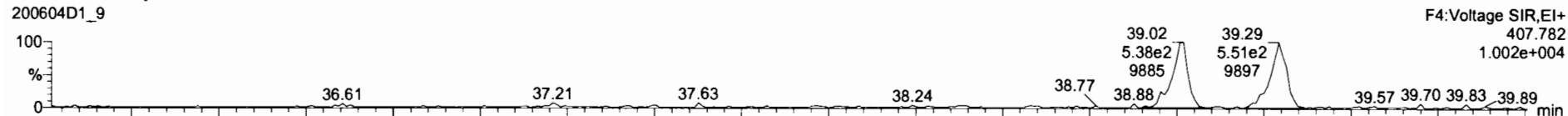
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Printed: Friday, June 05, 2020 09:44:33 Pacific Daylight Time

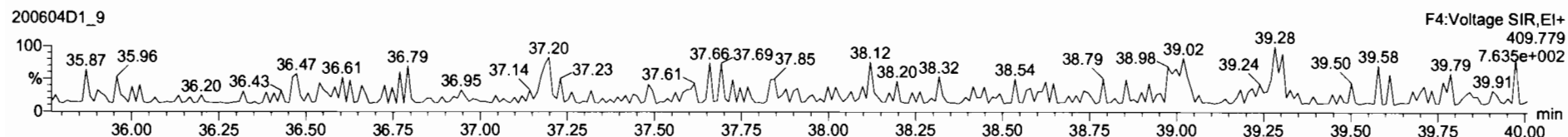
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### 1,2,3,4,6,7,8-HpCDF

200604D1\_9

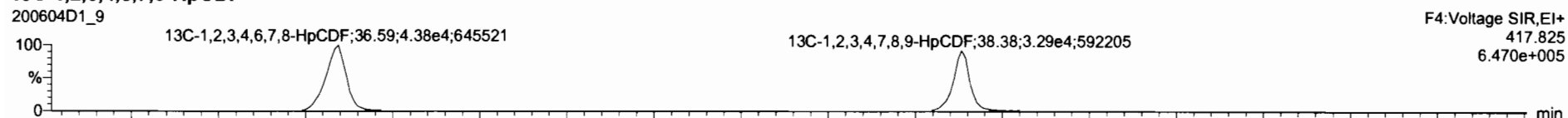


200604D1\_9

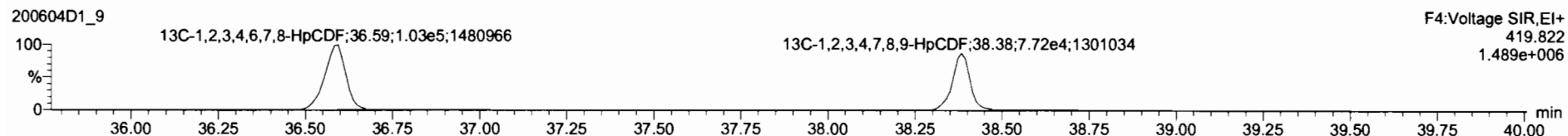


### 13C-1,2,3,4,6,7,8-HpCDF

200604D1\_9

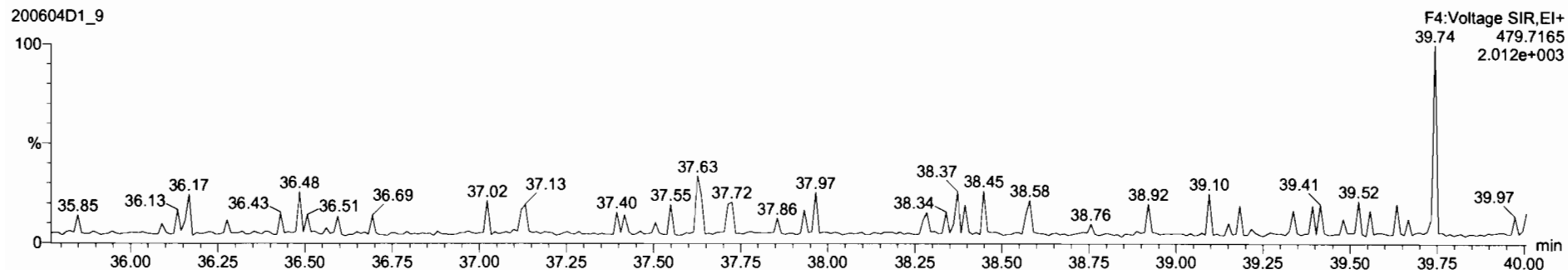


200604D1\_9



### DPE4

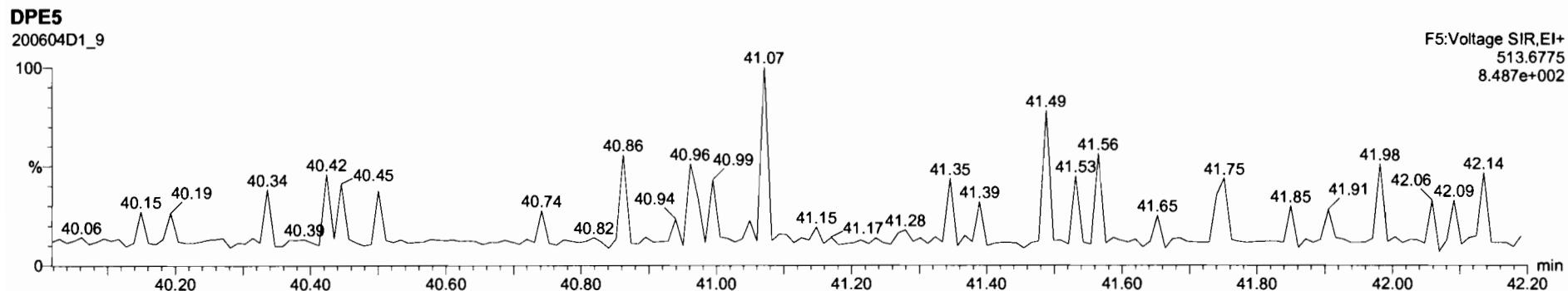
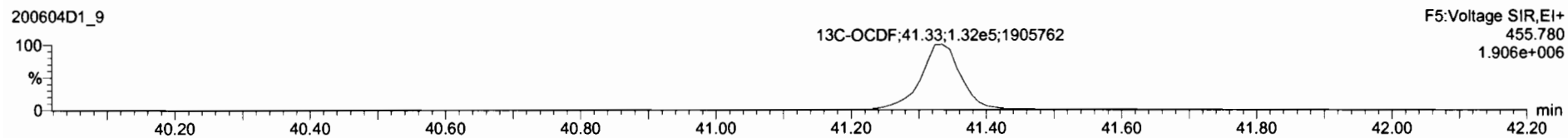
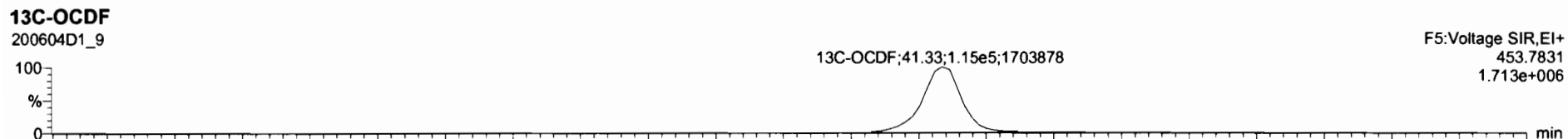
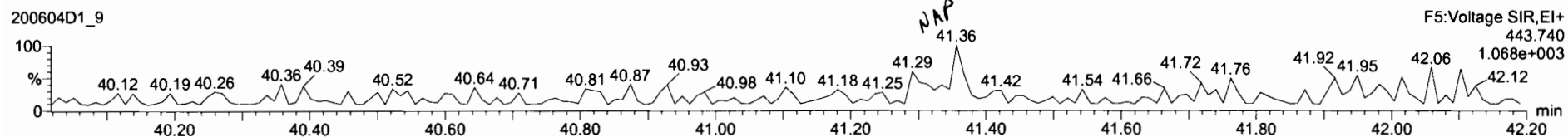
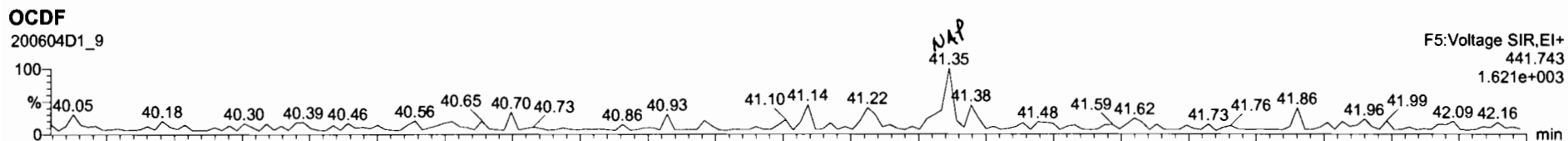
200604D1\_9



Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_9.qld

Last Altered: Friday, June 05, 2020 09:35:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:44:33 Pacific Daylight Time

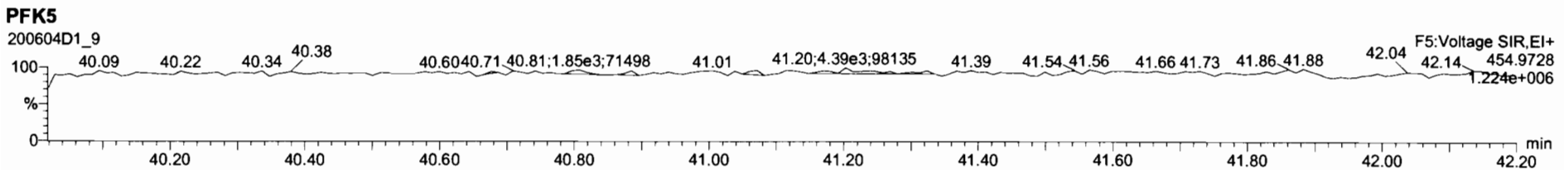
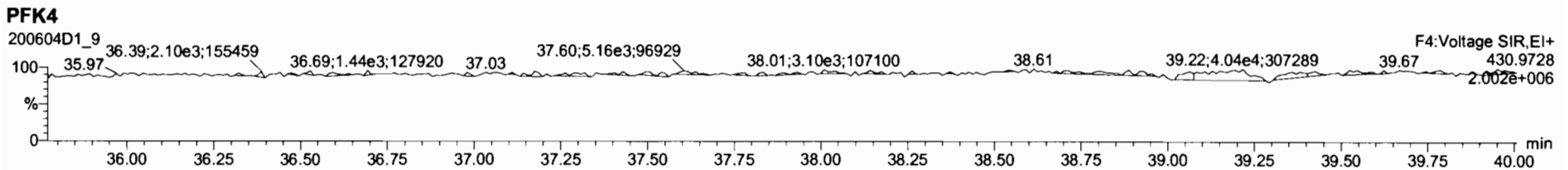
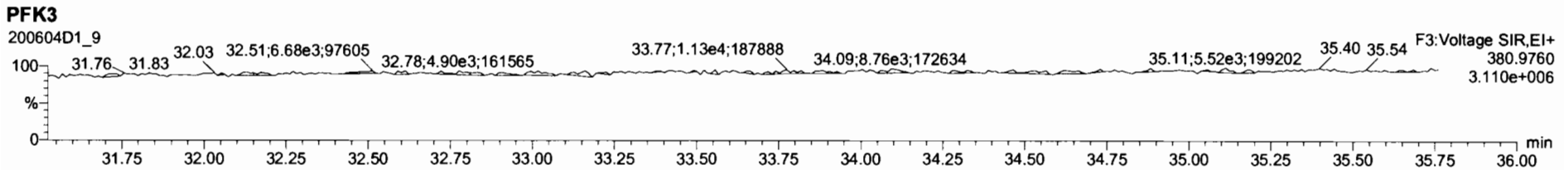
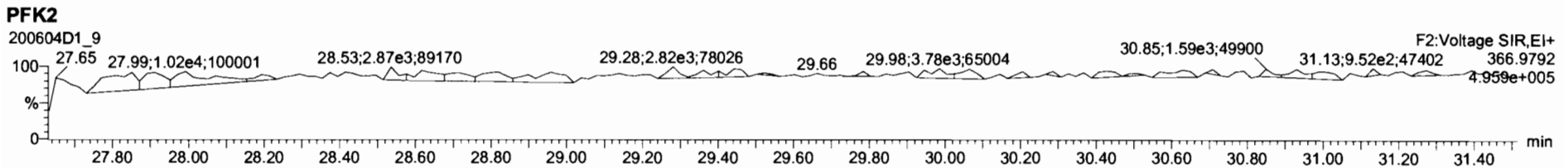
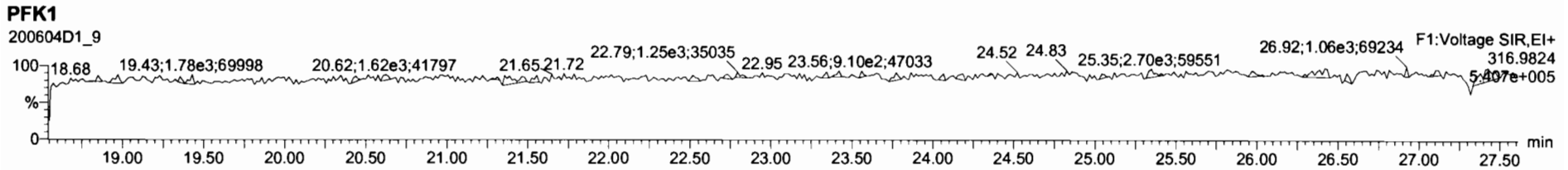
Name: 200604D1\_9, Date: 04-Jun-2020, Time: 18:01:30, ID: 2000945-05 PDI-146SC-A-04-05-200426 11.68, Description: PDI-146SC-A-04-05-200426



Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_9.qld

Last Altered: Friday, June 05, 2020 09:35:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:44:33 Pacific Daylight Time

Name: 200604D1\_9, Date: 04-Jun-2020, Time: 18:01:30, ID: 2000945-05 PDI-146SC-A-04-05-200426 11.68, Description: PDI-146SC-A-04-05-200426



Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_12.qld

Last Altered: Thursday, June 04, 2020 10:45:06 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 10:46:24 Pacific Daylight Time

*DB 6/4/20 C-7 06/05/2020*

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24  
Calibration: U:\VG7.PRO\CurveDB\5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

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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			NO	0.987	11.243	26.158		1.001				0.100	
2	2 1,2,3,7,8-PeCDD			NO	0.982	11.243	30.670		1.001				0.135	
3	3 1,2,3,4,7,8-HxCDD			NO	1.17	11.243	33.982		1.000				0.201	
4	4 1,2,3,6,7,8-HxCDD			NO	1.04	11.243	34.070		1.000				0.203	
5	5 1,2,3,7,8,9-HxCDD			NO	1.00	11.243	34.401		1.001				0.228	
6	6 1,2,3,4,6,7,8-HpCDD	6.41e2	1.05	NO	0.992	11.243	37.856	37.86	1.000	1.000	0.95282		0.130	0.953
7	7 OCDD	4.09e3	0.86	NO	1.04	11.243	41.104	41.13	1.000	1.001	6.7446		0.138	6.74
8	8 2,3,7,8-TCDF			NO	0.882	11.243	25.357		1.001				0.0624	
9	9 1,2,3,7,8-PeCDF			NO	1.05	11.243	29.502		1.001				0.0484	
10	10 2,3,4,7,8-PeCDF			NO	1.06	11.243	30.397		1.001				0.0490	
11	11 1,2,3,4,7,8-HxCDF			NO	1.08	11.243	33.083		1.000				0.0674	
12	12 1,2,3,6,7,8-HxCDF			NO	1.04	11.243	33.214		1.000				0.0696	
13	13 2,3,4,6,7,8-HxCDF			NO	1.11	11.243	33.830		1.001				0.0729	
14	14 1,2,3,7,8,9-HxCDF			NO	1.06	11.243	34.740		1.000				0.0975	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.13	11.243	36.620		1.001				0.110	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.33	11.243	38.372		1.000				0.109	
17	17 OCDF			NO	0.933	11.243	41.324		1.000				0.116	
18	18 13C-2,3,7,8-TCDD	1.96e5	0.79	NO	1.21	11.243	26.226	26.13	1.026	1.022	165.76	93.2	0.290	
19	19 13C-1,2,3,7,8-PeCDD	1.56e5	0.61	NO	0.996	11.243	30.724	30.65	1.202	1.199	159.99	89.9	0.285	
20	20 13C-1,2,3,4,7,8-HxCDD	1.34e5	1.30	NO	0.679	11.243	33.958	33.97	1.014	1.014	182.94	103	0.535	
21	21 13C-1,2,3,6,7,8-HxCDD	1.58e5	1.28	NO	0.850	11.243	34.068	34.07	1.017	1.017	172.64	97.0	0.427	
22	22 13C-1,2,3,7,8,9-HxCDD	1.52e5	1.28	NO	0.798	11.243	34.340	34.37	1.025	1.026	176.13	99.0	0.454	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.21e5	1.04	NO	0.697	11.243	37.809	37.85	1.129	1.130	160.40	90.2	0.498	
24	24 13C-OCDD	2.08e5	0.91	NO	0.579	11.243	40.836	41.10	1.219	1.227	333.24	93.7	0.610	
25	25 13C-2,3,7,8-TCDF	2.85e5	0.78	NO	1.13	11.243	25.305	25.33	0.990	0.991	157.95	88.8	0.342	
26	26 13C-1,2,3,7,8-PeCDF	2.51e5	1.62	NO	0.996	11.243	29.541	29.48	1.156	1.153	157.19	88.4	0.308	
27	27 13C-2,3,4,7,8-PeCDF	2.44e5	1.64	NO	0.969	11.243	30.443	30.37	1.191	1.188	157.39	88.5	0.317	
28	28 13C-1,2,3,4,7,8-HxCDF	1.88e5	0.51	NO	1.06	11.243	33.087	33.08	0.988	0.988	164.72	92.6	0.494	
29	29 13C-1,2,3,6,7,8-HxCDF	1.99e5	0.51	NO	1.18	11.243	33.221	33.20	0.992	0.991	156.84	88.2	0.445	
30	30 13C-2,3,4,6,7,8-HxCDF	1.85e5	0.49	NO	1.06	11.243	33.794	33.80	1.009	1.009	162.52	91.4	0.494	
31	31 13C-1,2,3,7,8,9-HxCDF	1.62e5	0.51	NO	0.879	11.243	34.695	34.74	1.036	1.037	170.93	96.1	0.594	



Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_12.qld

Last Altered: Thursday, June 04, 2020 10:45:06 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 10:46:24 Pacific Daylight Time

Name: 200603D1\_12, Date: 03-Jun-2020, Time: 22:56:57, ID: 2000945-06 PDI-146SC-A-05-06-200426 12.84, Description: PDI-146SC-A-05-06-200426

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.55e5	0.43	NO	0.893	11.243	36.403	36.58	1.087	1.092	161.24	90.6	0.455	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.14e5	0.43	NO	0.613	11.243	38.412	38.37	1.147	1.146	171.36	96.3	0.662	
34	34 13C-OCDF	2.42e5	0.89	NO	0.741	11.243	40.991	41.32	1.224	1.234	302.14	84.9	0.444	
35	35 37Cl-2,3,7,8-TCDD	8.16e4			1.18	11.243	26.223	26.14	1.026	1.023	70.740	99.4	0.0722	
36	36 13C-1,2,3,4-TCDD	1.74e5	0.78	NO	1.00	11.243	25.480	25.56	1.000	1.000	177.90	100	0.349	
37	37 13C-1,2,3,4-TCDF	2.85e5	0.78	NO	1.00	11.243	24.020	24.11	1.000	1.000	177.90	100	0.386	
38	38 13C-1,2,3,4,6,9-HxCDF	1.92e5	0.50	NO	1.00	11.243	33.530	33.49	1.000	1.000	177.90	100	0.523	
39	39 Total Tetra-Dioxins				0.987	11.243	24.620		0.000		0.00000		0.0634	0.169
40	40 Total Penta-Dioxins				0.982	11.243	29.960		0.000		0.14080		0.0533	0.233
41	41 Total Hexa-Dioxins				1.04	11.243	33.635		0.000		0.70072		0.216	0.952
42	42 Total Hepta-Dioxins				0.992	11.243	37.640		0.000		2.5134		0.130	2.51
43	43 Total Tetra-Furans				0.882	11.243	23.610		0.000				0.0303	
44	44 1st Func. Penta-Furans				1.05	11.243	27.090		0.000				0.0109	
45	45 Total Penta-Furans				1.05	11.243	29.275		0.000				0.0252	
46	46 Total Hexa-Furans				1.11	11.243	33.555		0.000				0.0397	
47	47 Total Hepta-Furans				1.13	11.243	37.835		0.000				0.0655	

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_12.qld

Last Altered: Thursday, June 04, 2020 10:45:06 Pacific Daylight Time

Printed: Thursday, June 04, 2020 10:46:24 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24

Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200603D1\_12, Date: 03-Jun-2020, Time: 22:56:57, ID: 2000945-06 PDI-146SC-A-05-06-200426 12.84, Description: PDI-146SC-A-05-06-200426

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.23	1.055e3	1.853e3	7.987e1	1.342e2	0.60	YES	0.000e0	0.00000	0.16920	0.100

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.62	9.550e2	7.620e2	5.817e1	4.847e1	1.20	YES	0.000e0	0.00000	0.091813	0.0533
2	Total Penta-Dioxins	29.08	9.480e2	1.360e3	4.517e1	7.598e1	0.59	NO	1.212e2	0.14080	0.14080	0.0533

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.45	6.970e3	4.814e3	3.371e2	2.674e2	1.26	NO	6.045e2	0.70072	0.70072	0.216
2	Total Hexa-Dioxins	33.27	2.857e3	1.722e3	1.201e2	1.220e2	0.98	YES	0.000e0	0.00000	0.25142	0.216

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.99	7.781e3	8.800e3	5.228e2	5.272e2	0.99	NO	1.050e3	1.5606	1.5606	0.130
2	1,2,3,4,6,7,8-HpCDD	37.86	6.320e3	5.929e3	3.281e2	3.129e2	1.05	NO	6.410e2	0.95282	0.95282	0.130

**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:\VG7.PRO\Results\200603D1\200603D1\_12.qld

Last Altered: Thursday, June 04, 2020 10:45:06 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 10:46:24 Pacific Daylight Time

Name: 200603D1\_12, Date: 03-Jun-2020, Time: 22:56:57, ID: 2000945-06 PDI-146SC-A-05-06-200426 12.84, Description: PDI-146SC-A-05-06-200426

**Penta-Furans**

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

**Hexa-Furans**

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

**Hepta-Furans**

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

Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_12.qld

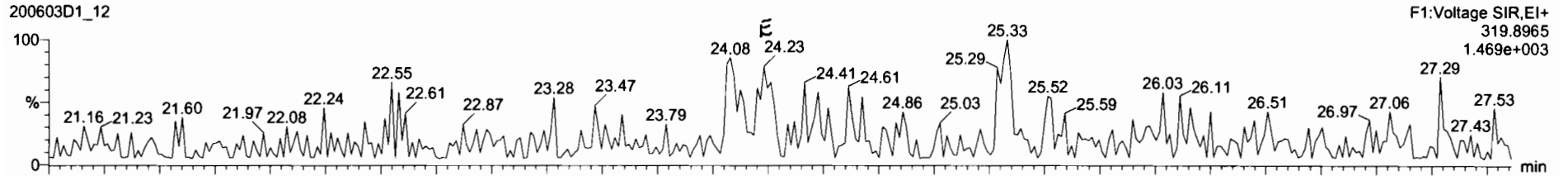
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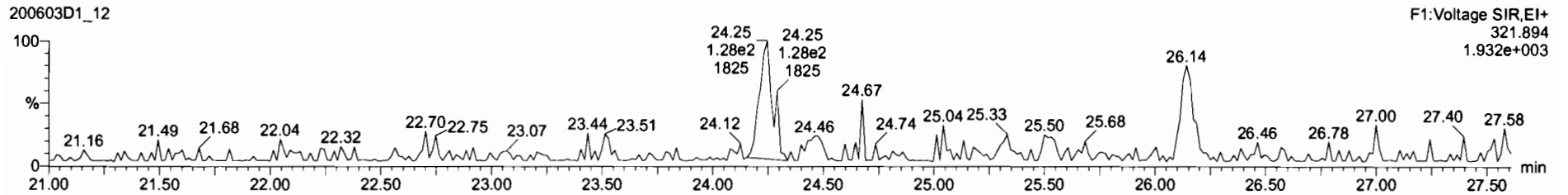
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**2,3,7,8-TCDD**

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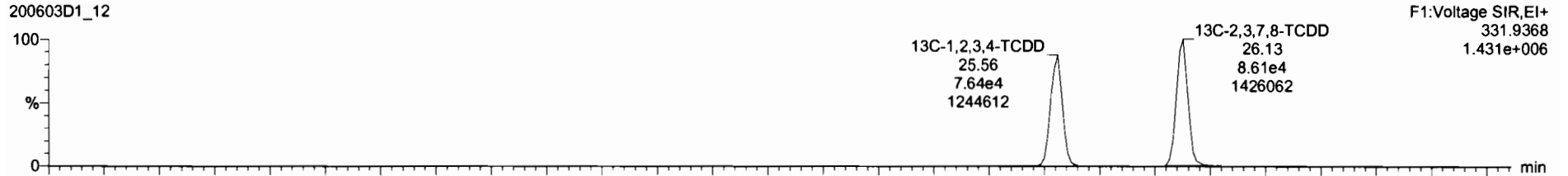


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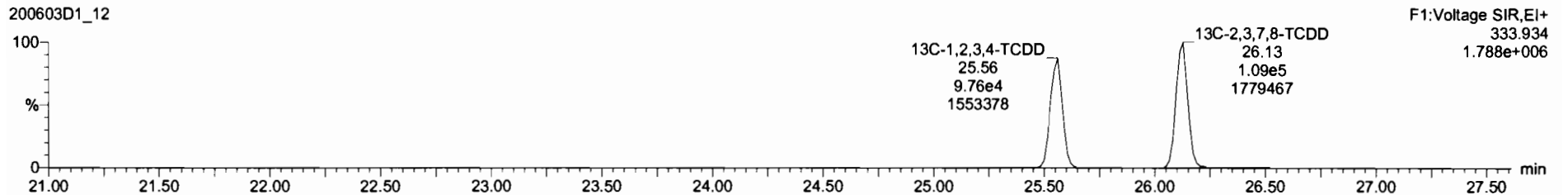


**13C-2,3,7,8-TCDD**

200603D1\_12



200603D1\_12



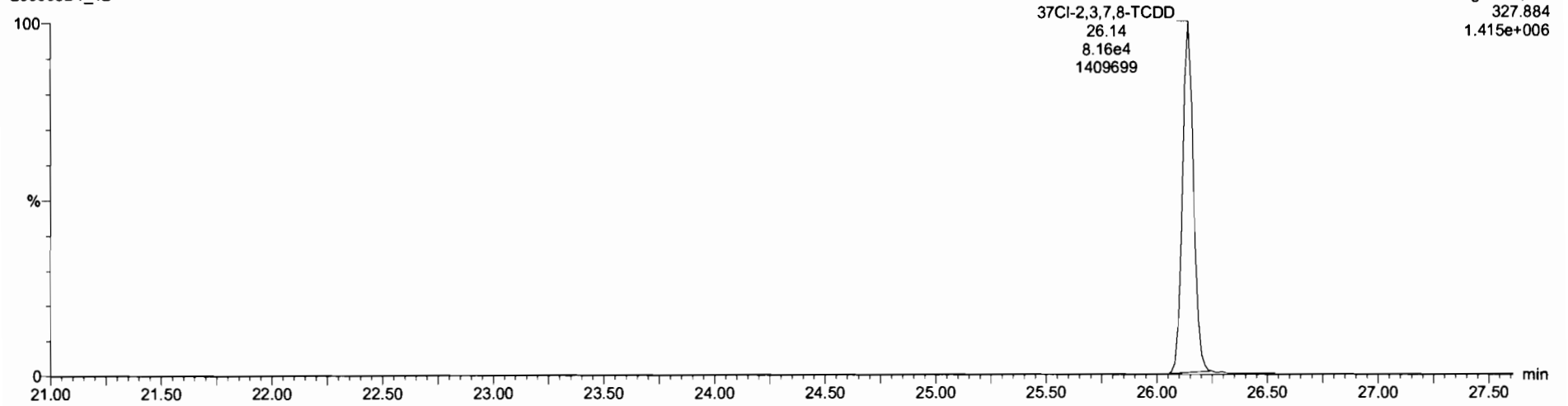
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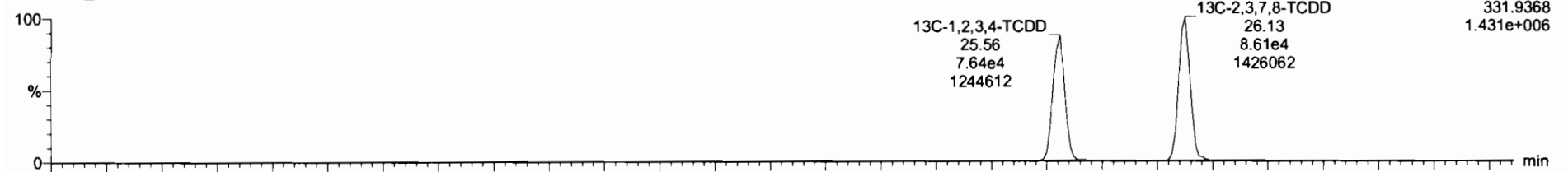
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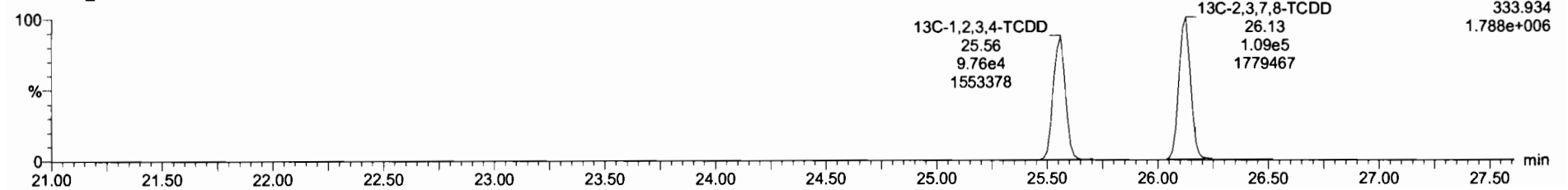


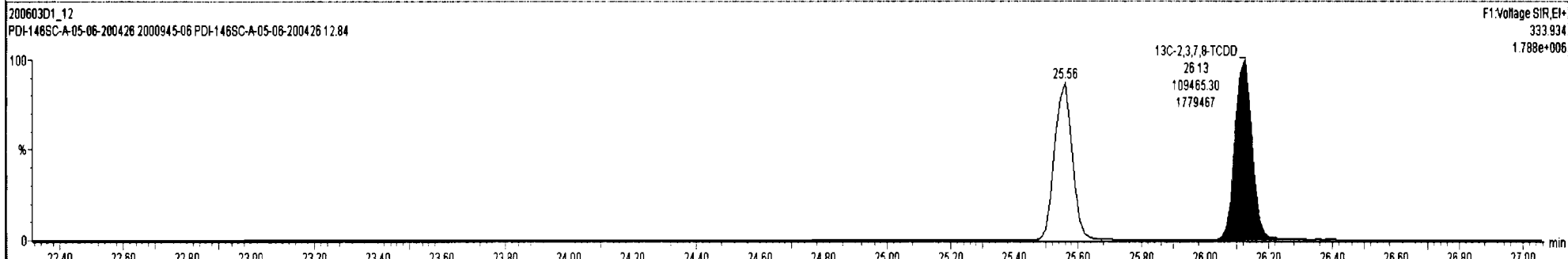
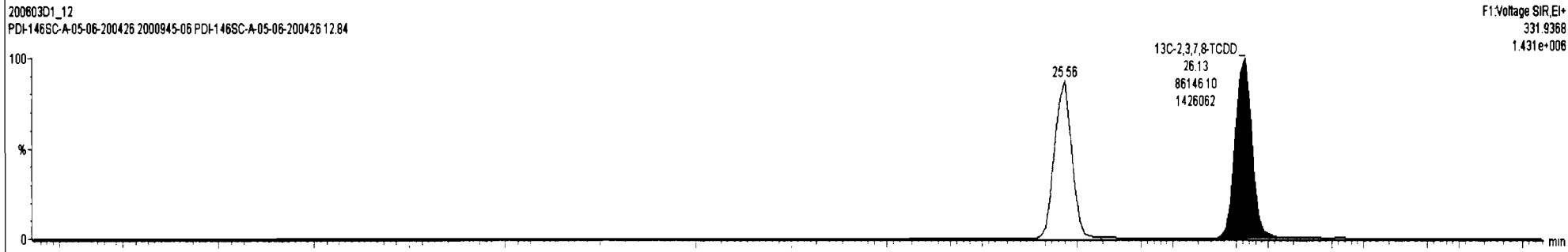
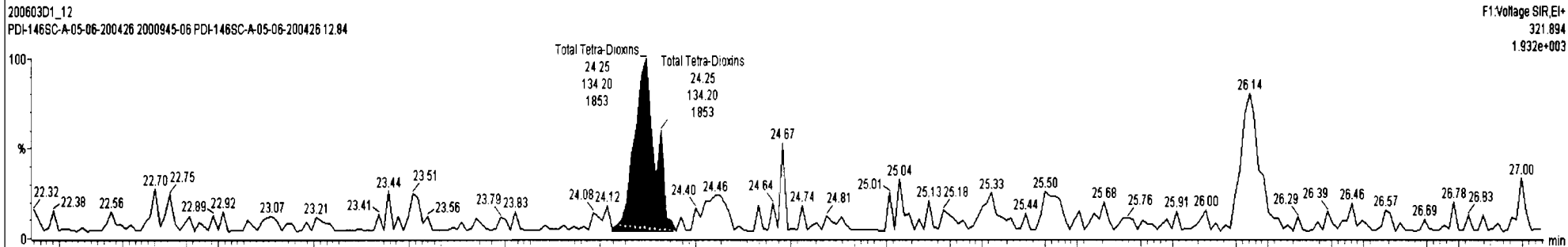
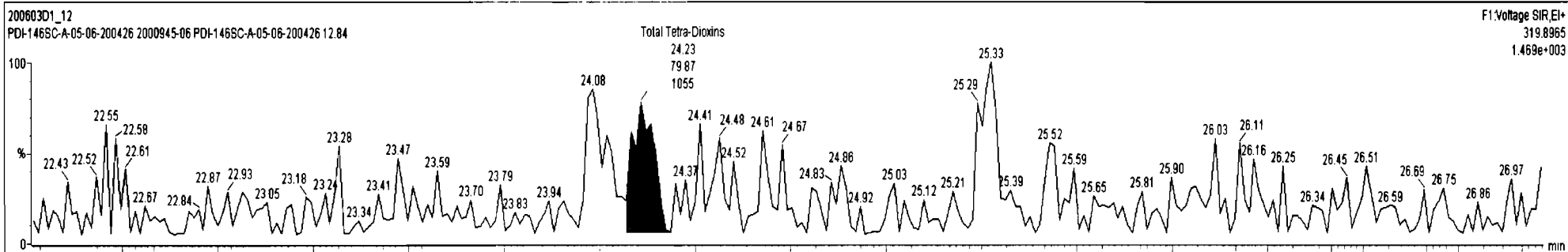
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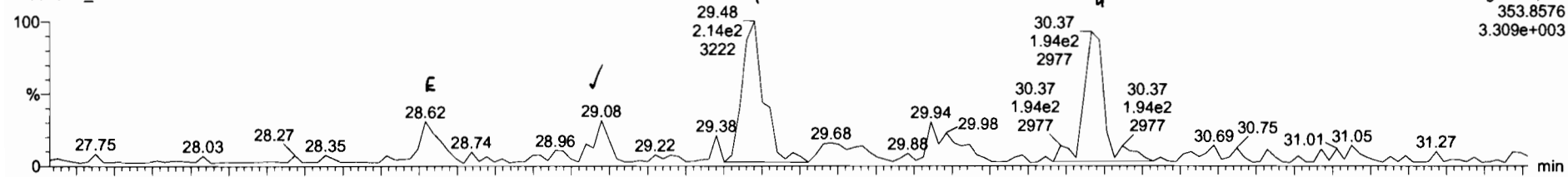
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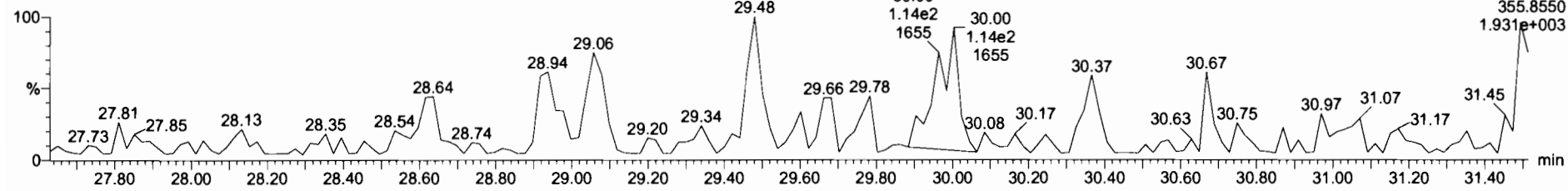
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1,2,3,7,8-PeCDD

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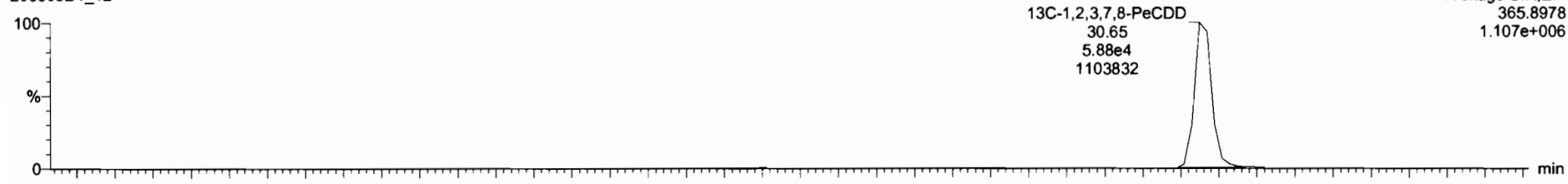


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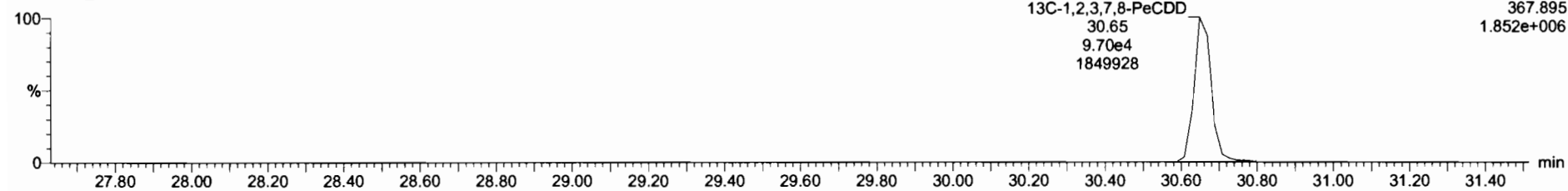


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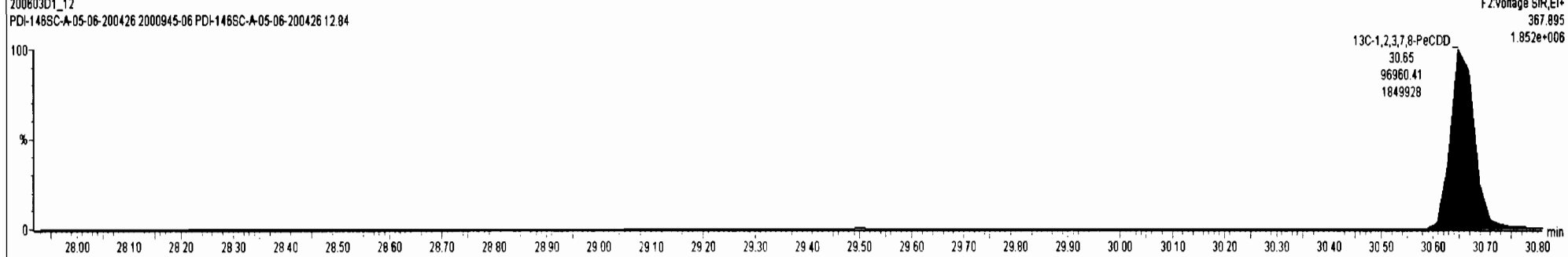
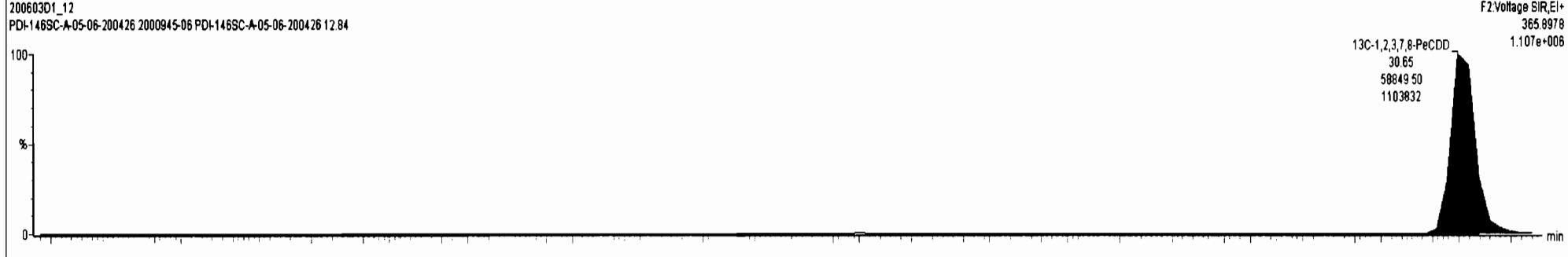
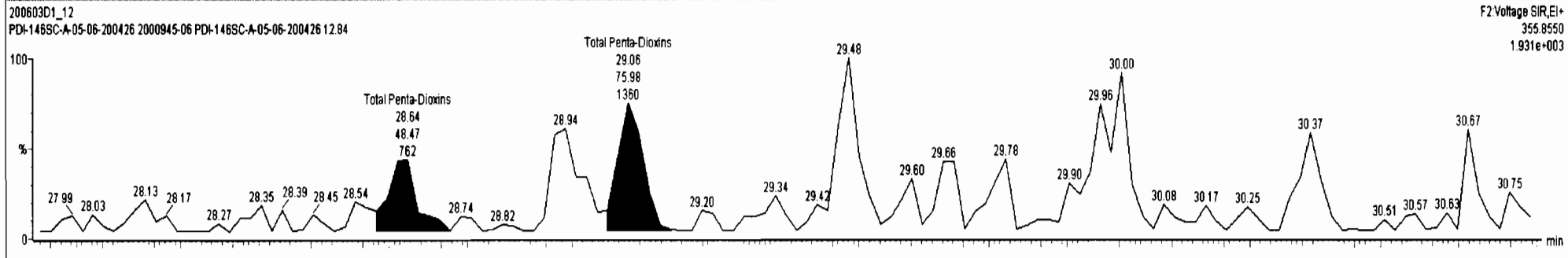
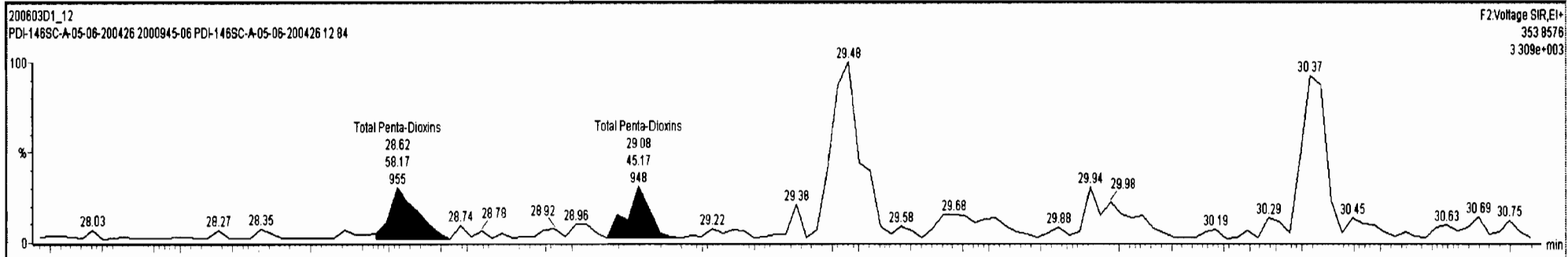
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200603D1\_12



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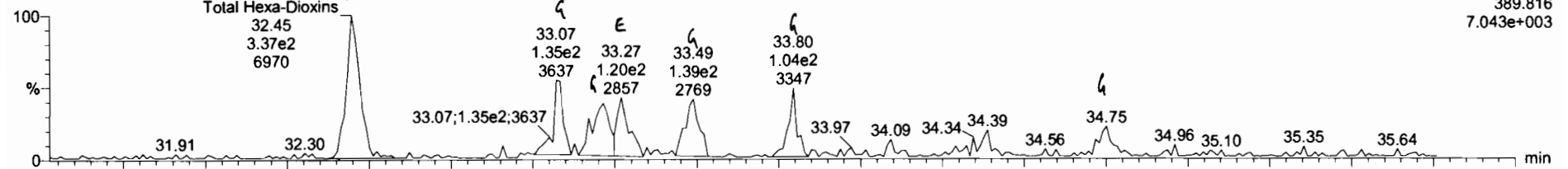
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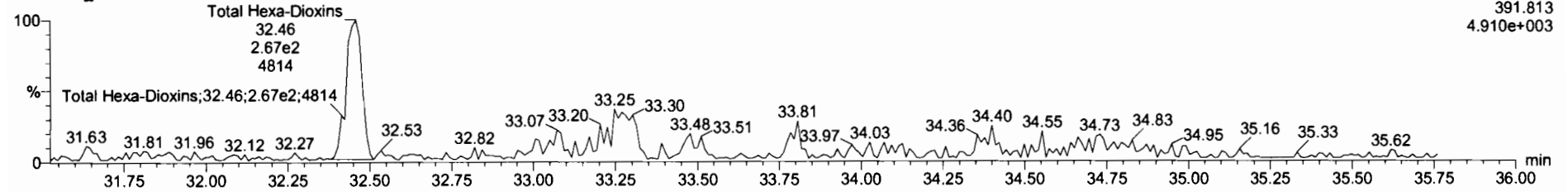
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1,2,3,4,7,8-HxCDD

200603D1\_12

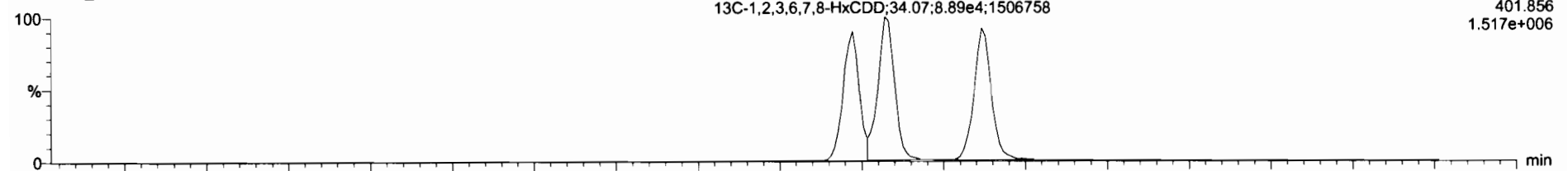


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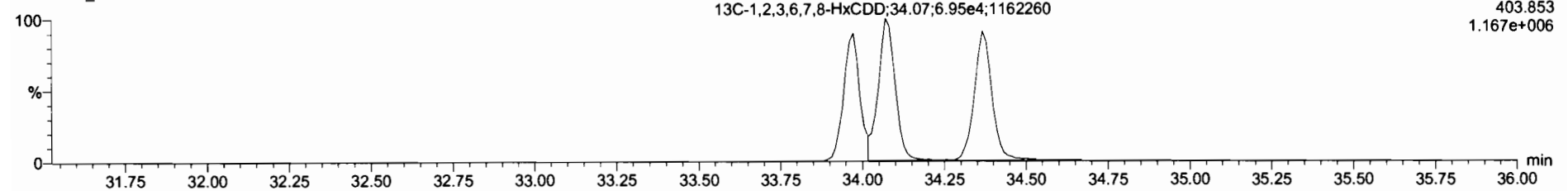


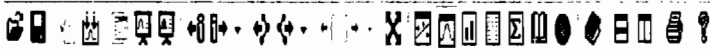
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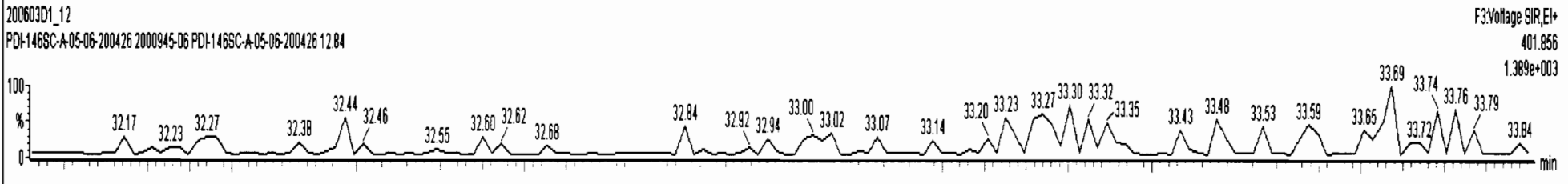
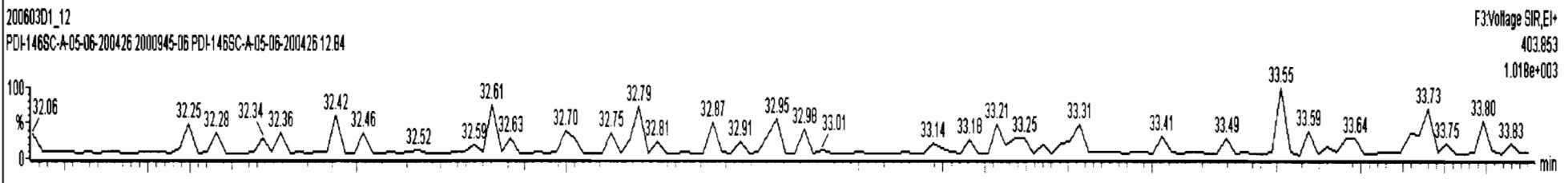
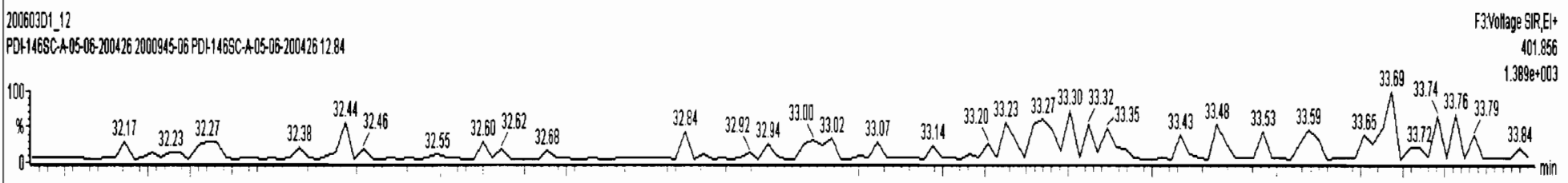
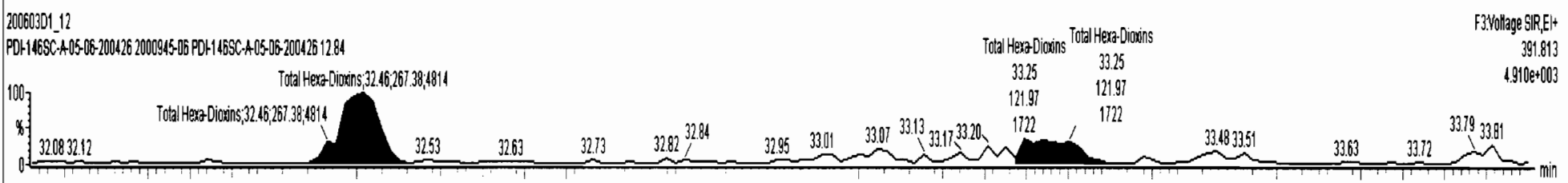
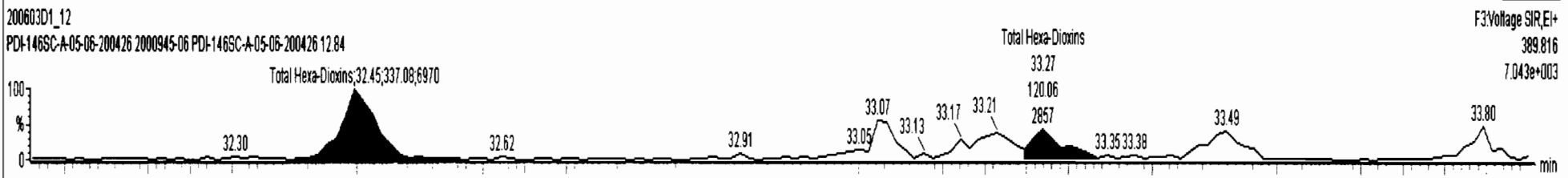


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20060301\_12 2000945-06 PDI-146SC-A-05-06-200426 12.84

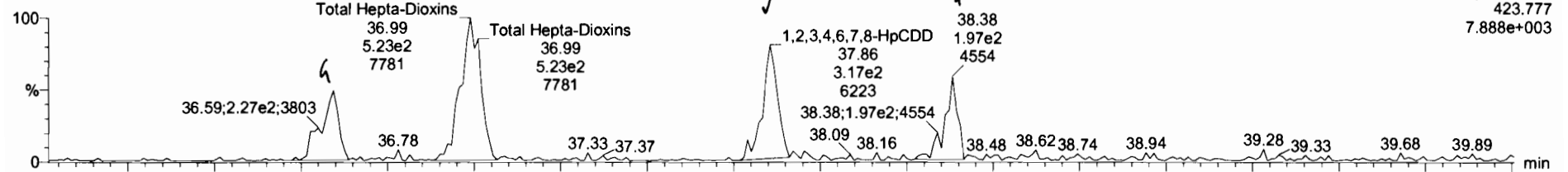


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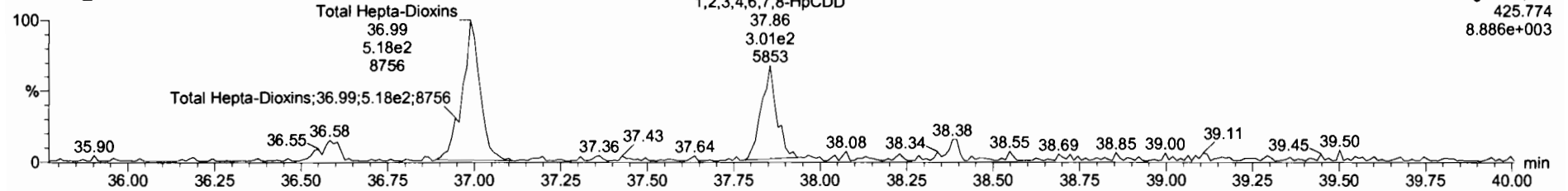
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**1,2,3,4,6,7,8-HpCDD**

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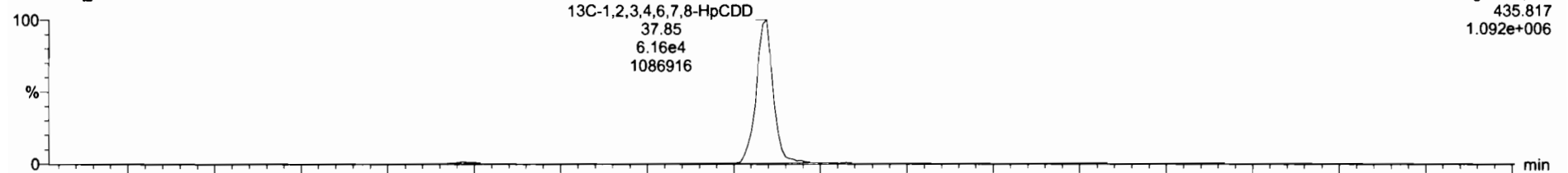


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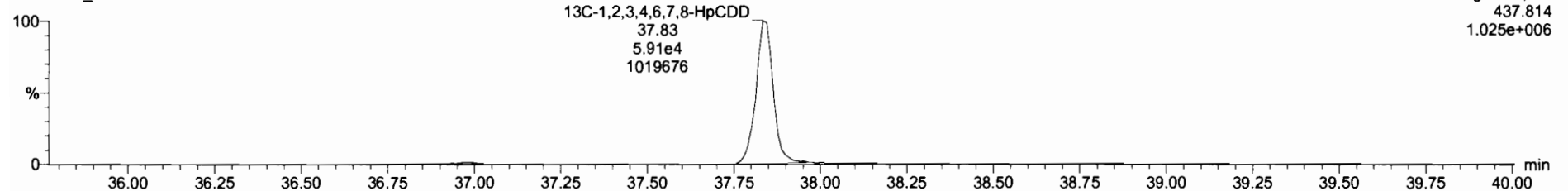


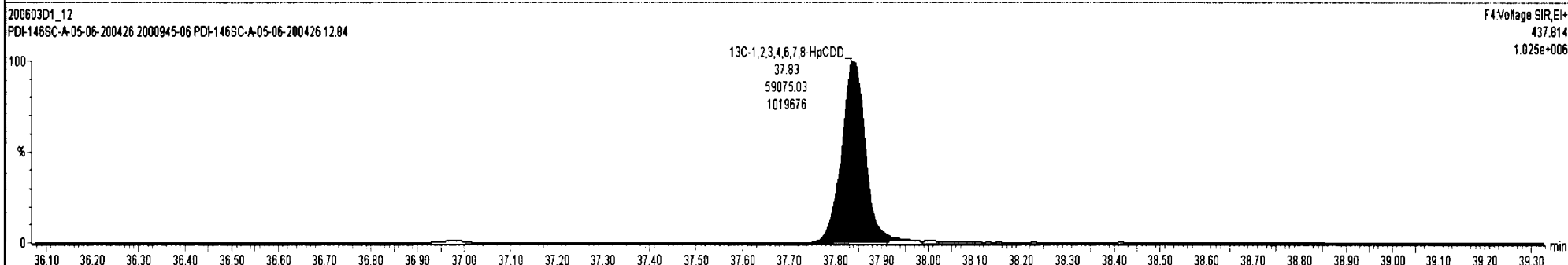
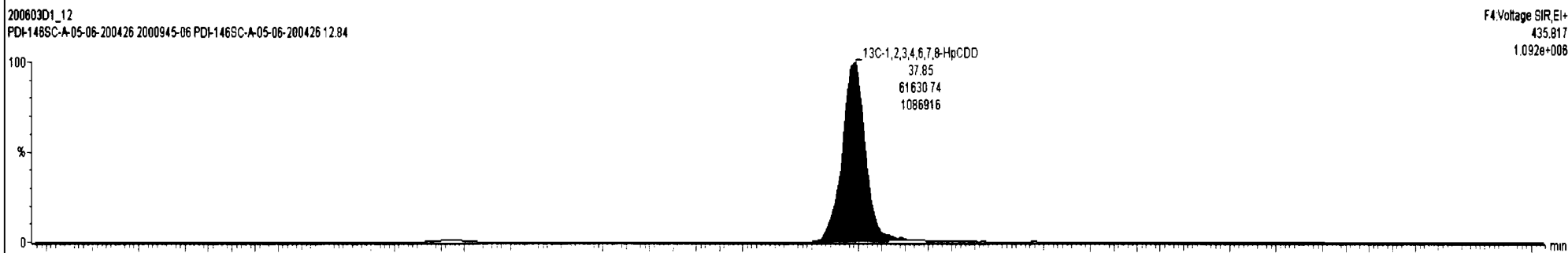
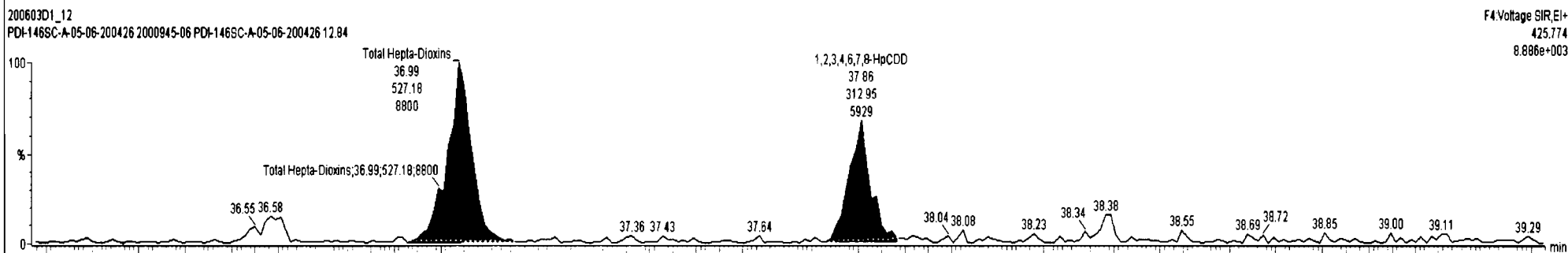
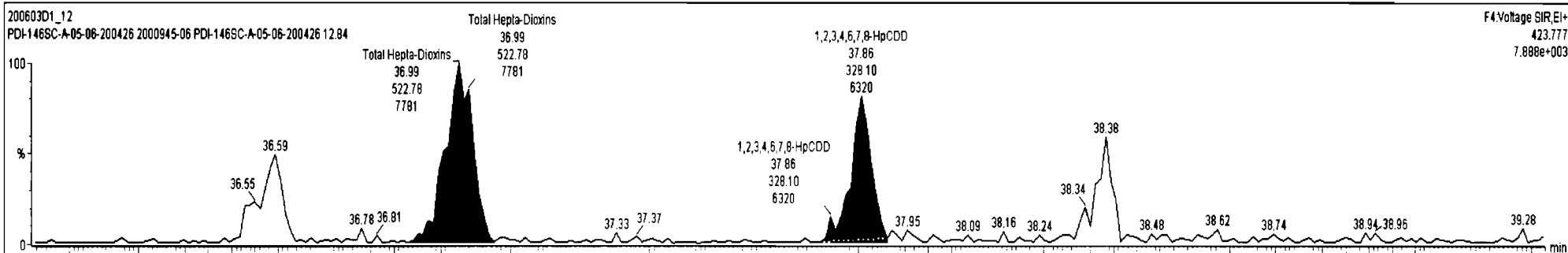
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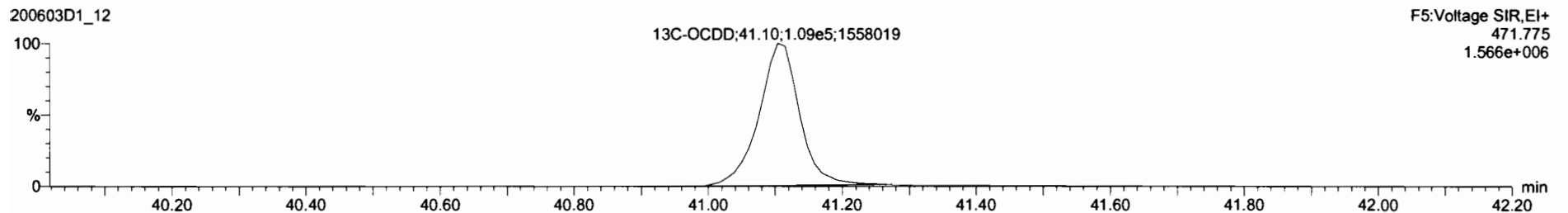
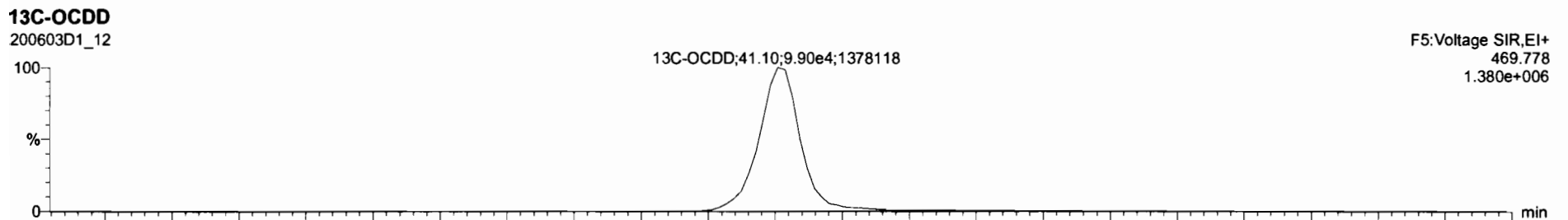
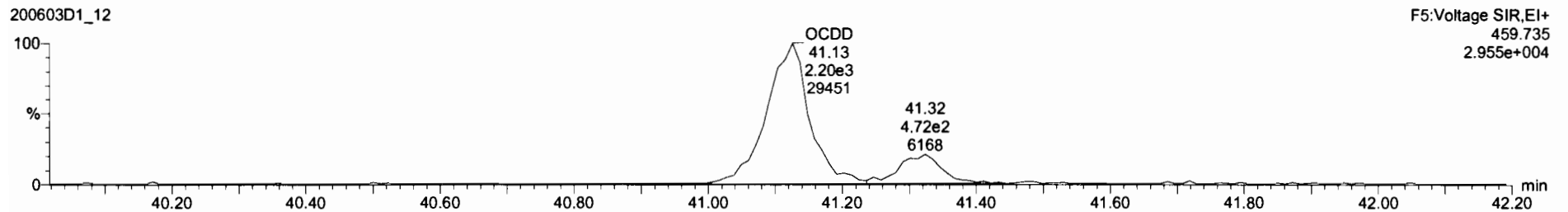
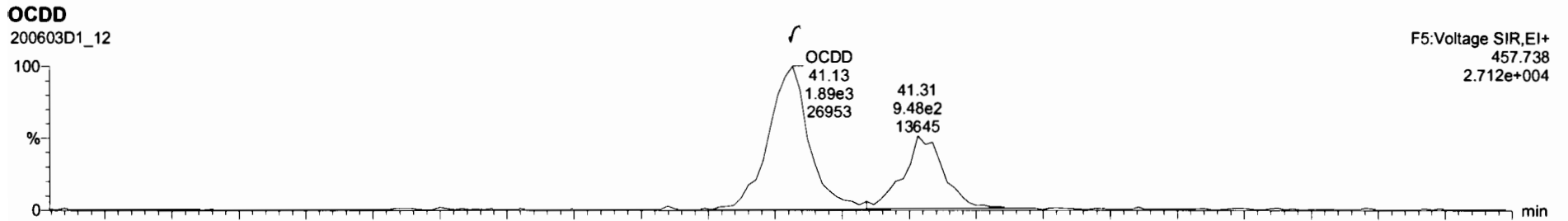




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Name: 200603D1\_12, Date: 03-Jun-2020, Time: 22:56:57, ID: 2000945-06 PDI-146SC-A-05-06-200426 12.84, Description: PDI-146SC-A-05-06-200426



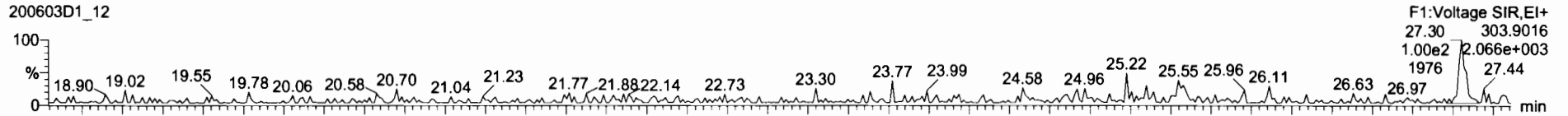
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Last Altered: Thursday, June 04, 2020 09:34:22 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 10:04:22 Pacific Daylight Time

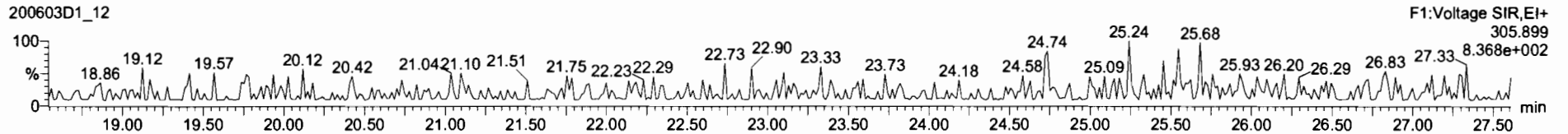
Name: 200603D1\_12, Date: 03-Jun-2020, Time: 22:56:57, ID: 2000945-06 PDI-146SC-A-05-06-200426 12.84, Description: PDI-146SC-A-05-06-200426

2,3,7,8-TCDF

200603D1\_12

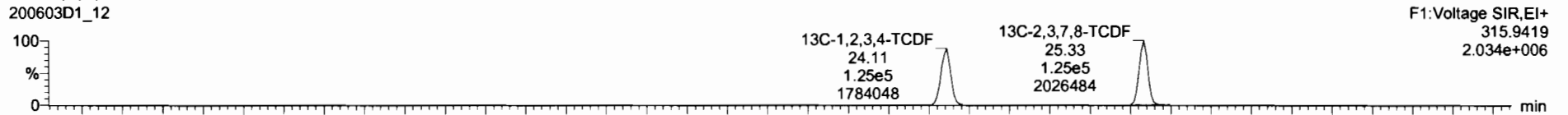


200603D1\_12

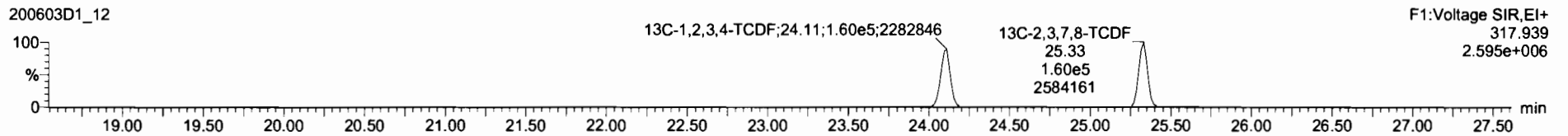


13C-2,3,7,8-TCDF

200603D1\_12

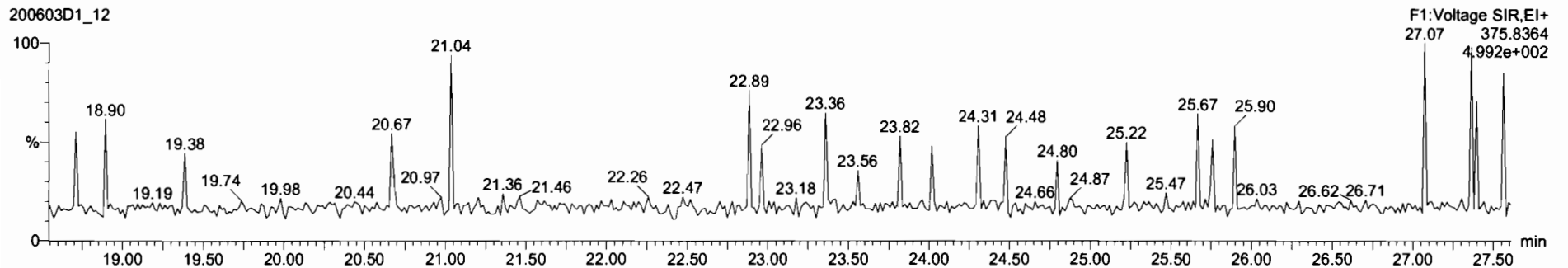


200603D1\_12



DPE1

200603D1\_12



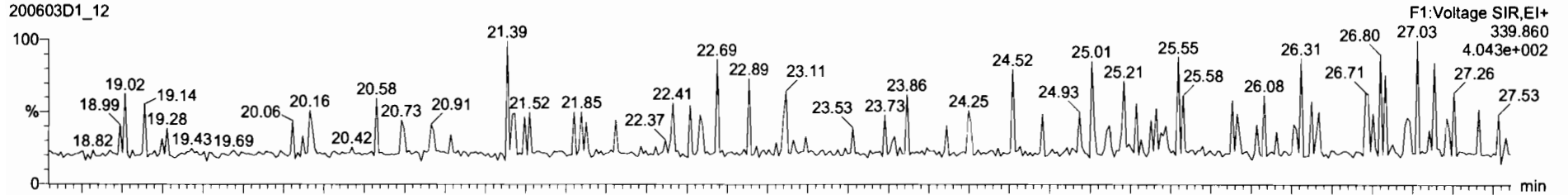
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Last Altered: Thursday, June 04, 2020 09:34:22 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 10:04:22 Pacific Daylight Time

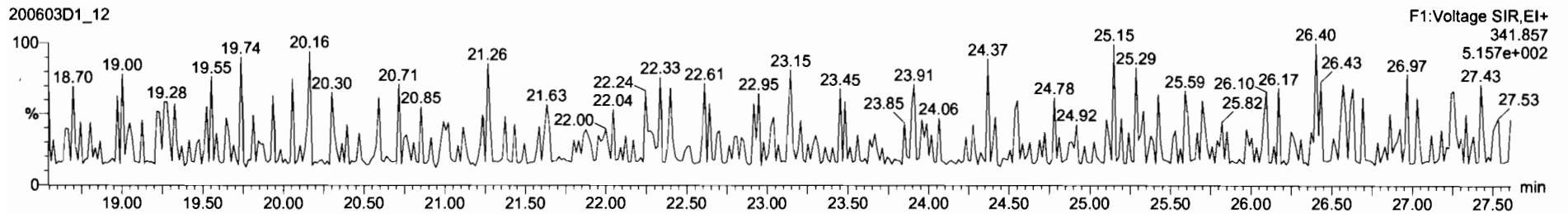
Name: 200603D1\_12, Date: 03-Jun-2020, Time: 22:56:57, ID: 2000945-06 PDI-146SC-A-05-06-200426 12.84, Description: PDI-146SC-A-05-06-200426

1st Func. Penta-Furans

200603D1\_12

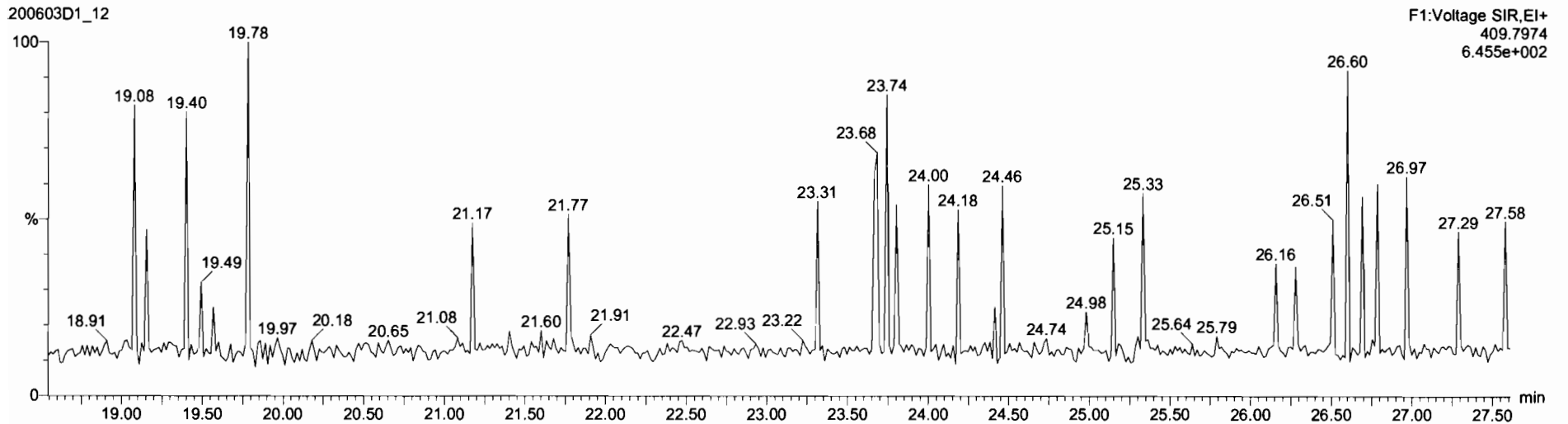


200603D1\_12



DPE6

200603D1\_12



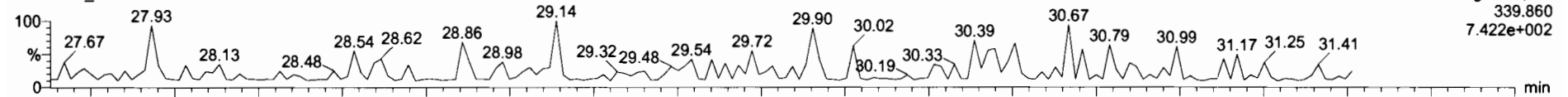
Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_12.qld

Last Altered: Thursday, June 04, 2020 09:34:22 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 10:04:22 Pacific Daylight Time

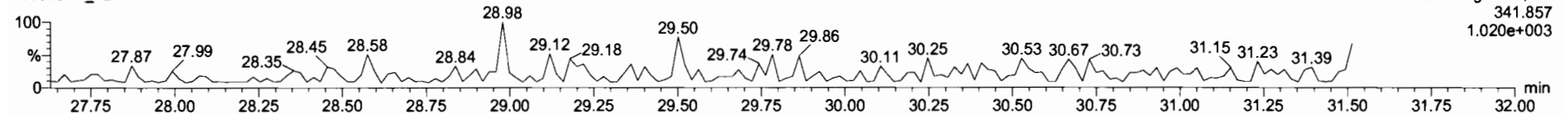
Name: 200603D1\_12, Date: 03-Jun-2020, Time: 22:56:57, ID: 2000945-06 PDI-146SC-A-05-06-200426 12.84, Description: PDI-146SC-A-05-06-200426

**1,2,3,7,8-PeCDF**

200603D1\_12

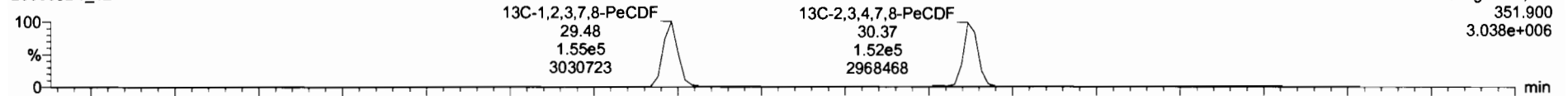


200603D1\_12

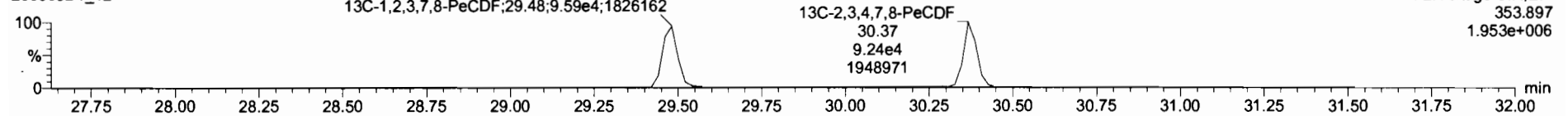


**13C-1,2,3,7,8-PeCDF**

200603D1\_12

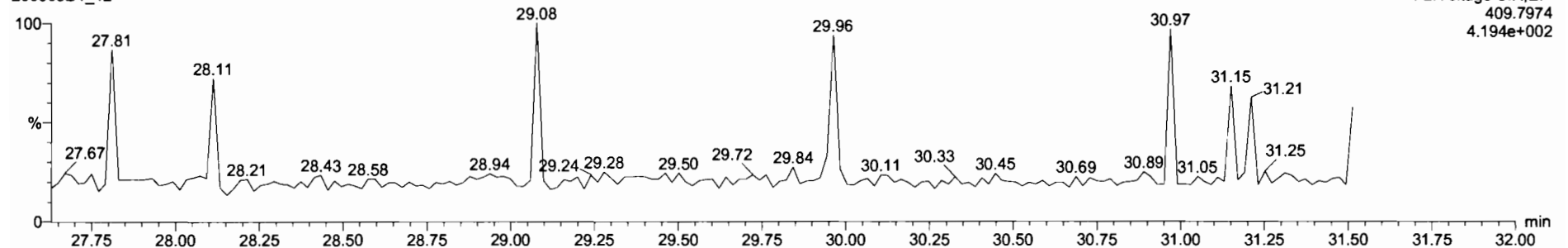


200603D1\_12



**DPE2**

200603D1\_12





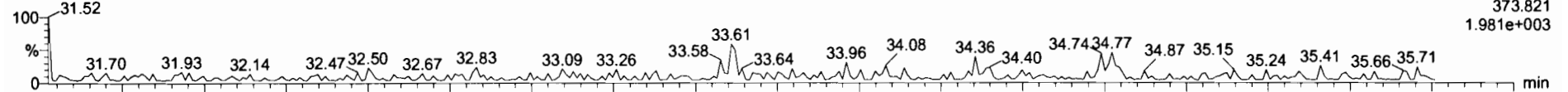
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Last Altered: Thursday, June 04, 2020 09:34:22 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 10:04:22 Pacific Daylight Time

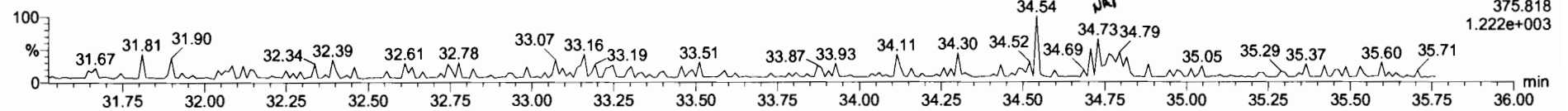
Name: 200603D1\_12, Date: 03-Jun-2020, Time: 22:56:57, ID: 2000945-06 PDI-146SC-A-05-06-200426 12.84, Description: PDI-146SC-A-05-06-200426

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

200603D1\_12

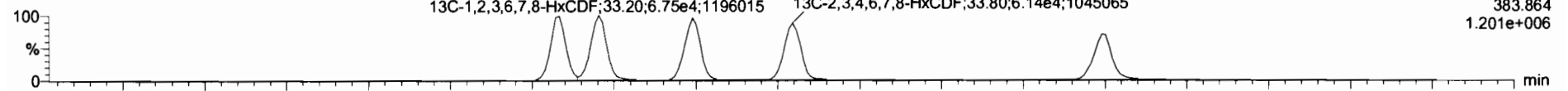


200603D1\_12

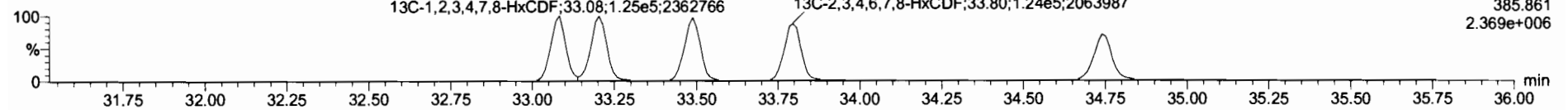


**13C-1,2,3,4,7,8-HxCDF**

200603D1\_12

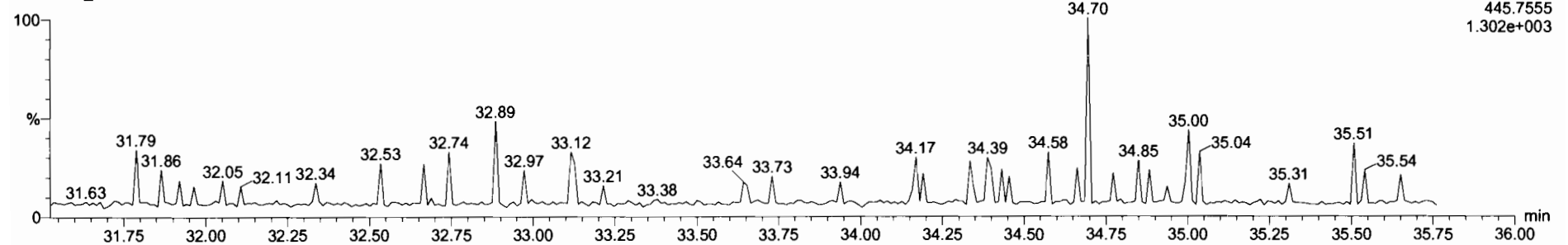


200603D1\_12



**DPE3**

200603D1\_12



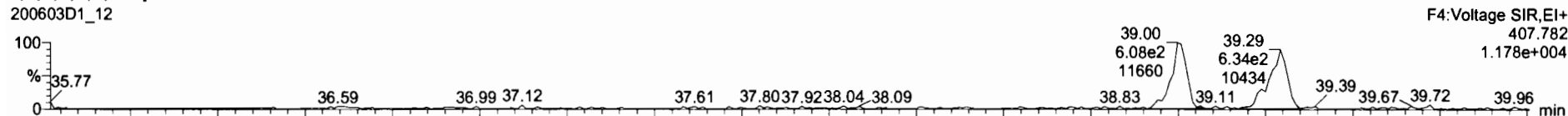
Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_12.qld

Last Altered: Thursday, June 04, 2020 09:34:22 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 10:04:22 Pacific Daylight Time

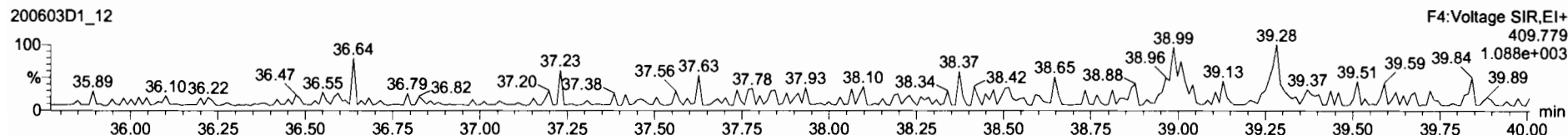
Name: 200603D1\_12, Date: 03-Jun-2020, Time: 22:56:57, ID: 2000945-06 PDI-146SC-A-05-06-200426 12.84, Description: PDI-146SC-A-05-06-200426

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

200603D1\_12

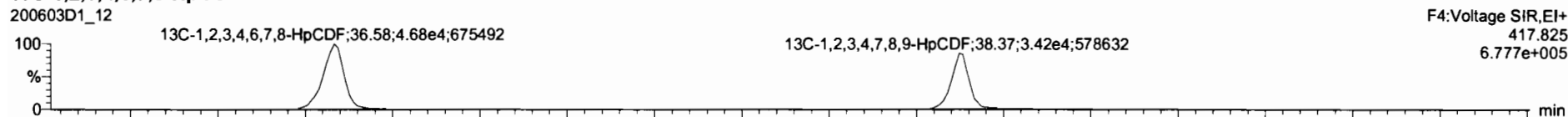


200603D1\_12

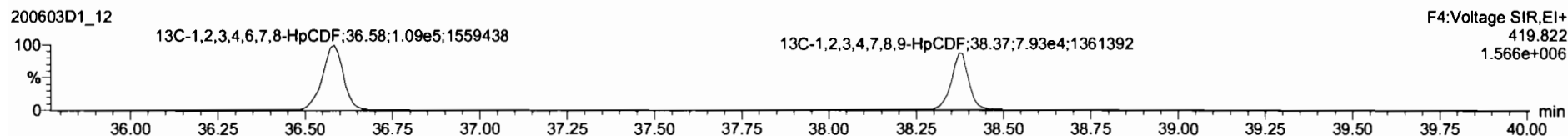


13C-1,2,3,4,6,7,8-HpCDF

200603D1\_12

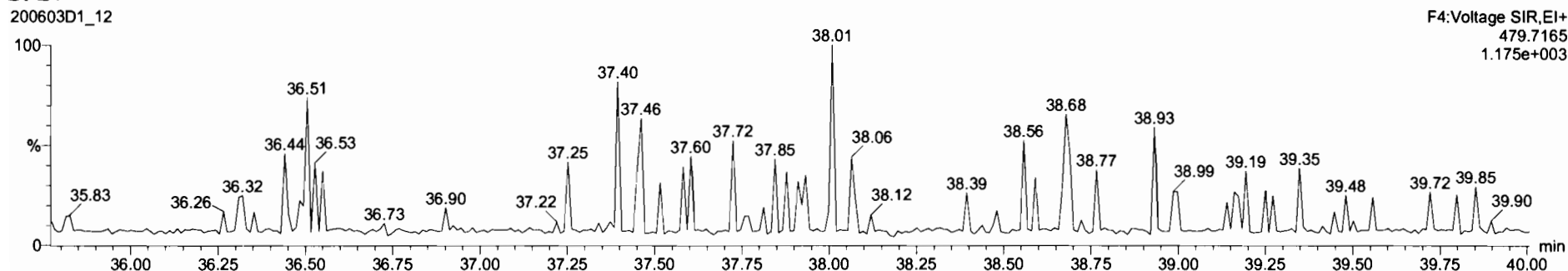


200603D1\_12



DPE4

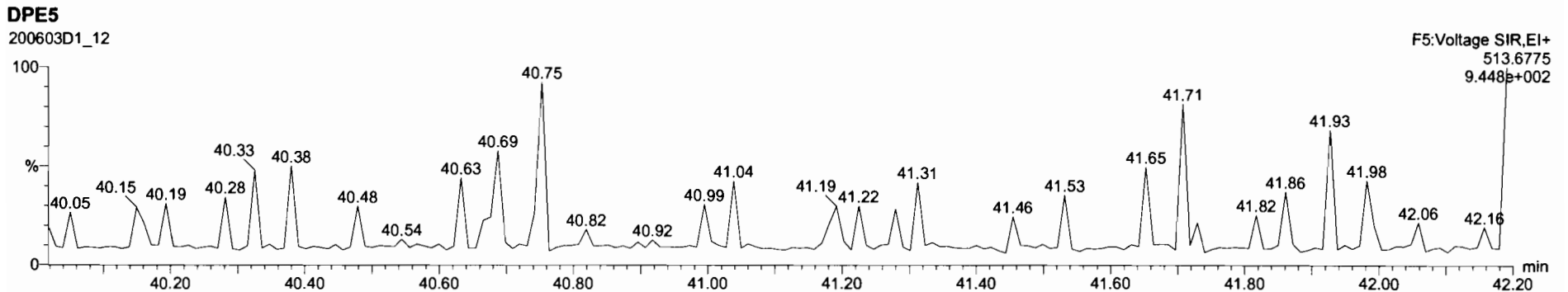
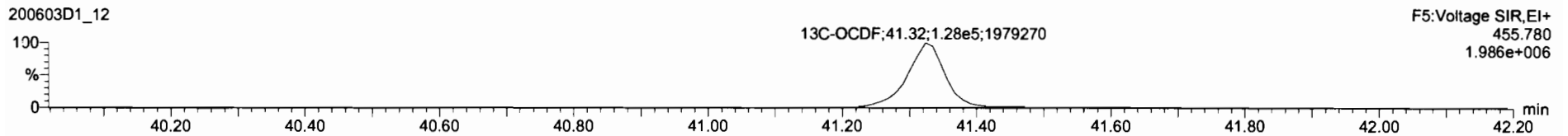
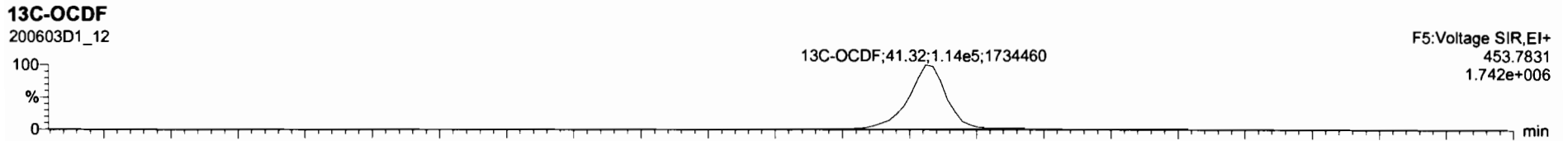
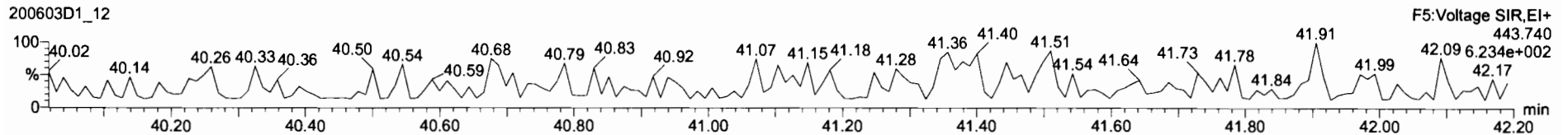
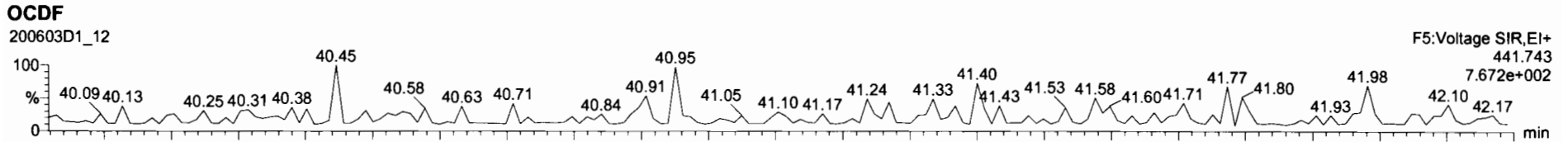
200603D1\_12



Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_12.qld

Last Altered: Thursday, June 04, 2020 09:34:22 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 10:04:22 Pacific Daylight Time

Name: 200603D1\_12, Date: 03-Jun-2020, Time: 22:56:57, ID: 2000945-06 PDI-146SC-A-05-06-200426 12.84, Description: PDI-146SC-A-05-06-200426

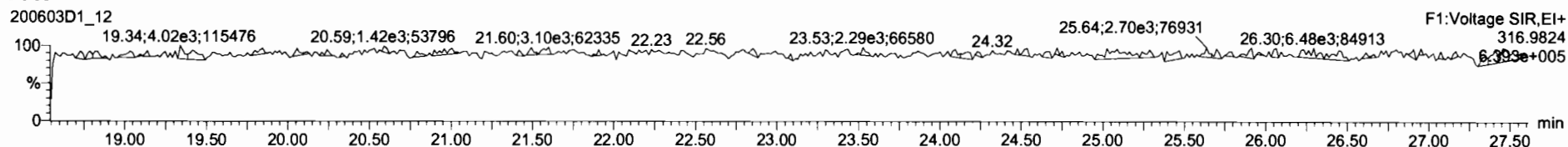


Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_12.qld

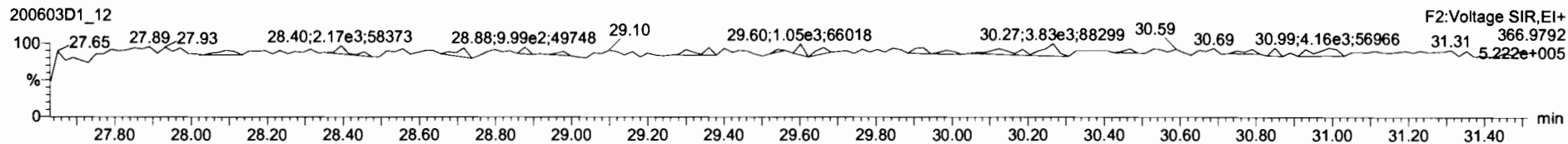
Last Altered: Thursday, June 04, 2020 09:34:22 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 10:04:22 Pacific Daylight Time

Name: 200603D1\_12, Date: 03-Jun-2020, Time: 22:56:57, ID: 2000945-06 PDI-146SC-A-05-06-200426 12.84, Description: PDI-146SC-A-05-06-200426

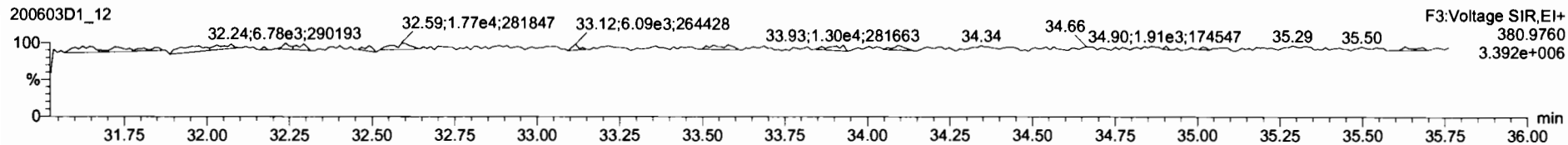
PFK1



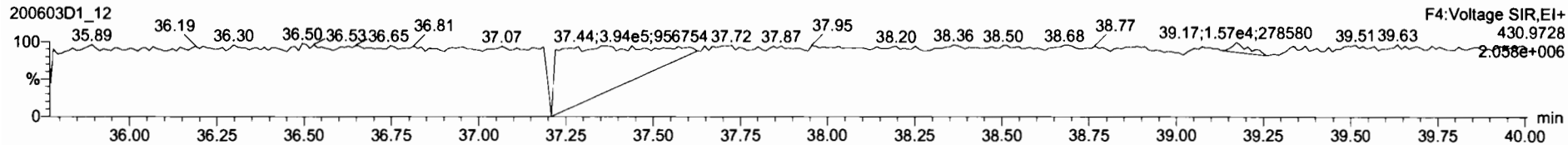
PFK2



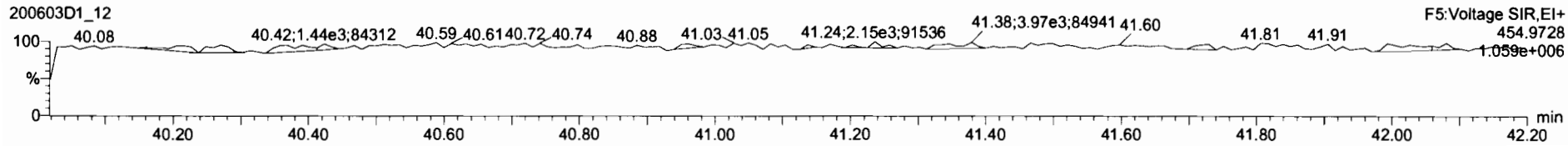
PFK3



PFK4



PFK5



Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_13.qld

Last Altered: Thursday, June 04, 2020 11:02:11 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 11:03:28 Pacific Daylight Time

*DB 6/4/20 C706/05/2020*

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24  
Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200603D1\_13, Date: 03-Jun-2020, Time: 23:42:05, ID: 2000945-07 PDI-146SC-A-06-07-200426 14.13, Description: PDI-146SC-A-06-07-200426

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.987	10.811	26.158		1.001				0.103	
2	2 1,2,3,7,8-PeCDD			NO	0.982	10.811	30.690		1.001				0.117	
3	3 1,2,3,4,7,8-HxCDD			NO	1.17	10.811	33.982		1.000				0.130	
4	4 1,2,3,6,7,8-HxCDD			NO	1.04	10.811	34.082		1.000				0.127	
5	5 1,2,3,7,8,9-HxCDD			NO	1.00	10.811	34.412		1.001				0.146	
6	6 1,2,3,4,6,7,8-HpCDD	1.15e3	0.98	NO	0.992	10.811	37.856	37.87	1.000	1.001	1.4372		0.0980	1.44
7	7 OCDD	8.07e3	0.87	NO	1.04	10.811	41.115	41.13	1.000	1.000	11.878		0.183	11.9
8	8 2,3,7,8-TCDF			NO	0.882	10.811	25.357		1.001				0.0774	
9	9 1,2,3,7,8-PeCDF	9.69e1	0.94	YES	1.05	10.811	29.502	29.50	1.001	1.001	0.062955		0.0228	0.0503
10	10 2,3,4,7,8-PeCDF			NO	1.06	10.811	30.417		1.001				0.0664	
11	11 1,2,3,4,7,8-HxCDF	2.47e2	1.70	YES	1.08	10.811	33.083	33.09	1.000	1.000	0.12593		0.0381	0.163
12	12 1,2,3,6,7,8-HxCDF			NO	1.04	10.811	33.214		1.000				0.0724	
13	13 2,3,4,6,7,8-HxCDF			NO	1.11	10.811	33.841		1.001				0.0716	
14	14 1,2,3,7,8,9-HxCDF	1.02e2	1.07	NO	1.06	10.811	34.751	34.76	1.000	1.000	0.093225		0.0535	0.0932
15	15 1,2,3,4,6,7,8-HpCDF	1.97e2	0.90	NO	1.13	10.811	36.620	36.62	1.001	1.001	0.17576		0.0478	0.176
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.33	10.811	38.383		1.000				0.108	
17	17 OCDF	1.03e2	0.47	YES	0.933	10.811	41.335	41.35	1.000	1.000	0.14473		0.141	0.0983
18	18 13C-2,3,7,8-TCDD	1.95e5	0.81	NO	1.21	10.811	26.226	26.13	1.026	1.022	141.04	76.2	0.254	
19	19 13C-1,2,3,7,8-PeCDD	1.74e5	0.61	NO	0.996	10.811	30.724	30.67	1.202	1.200	152.20	82.3	0.155	
20	20 13C-1,2,3,4,7,8-HxCDD	1.56e5	1.26	NO	0.679	10.811	33.958	33.97	1.014	1.014	184.16	99.5	0.794	
21	21 13C-1,2,3,6,7,8-HxCDD	1.83e5	1.32	NO	0.850	10.811	34.068	34.08	1.017	1.018	172.14	93.0	0.634	
22	22 13C-1,2,3,7,8,9-HxCDD	1.81e5	1.31	NO	0.798	10.811	34.340	34.38	1.025	1.027	181.42	98.1	0.675	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.49e5	1.01	NO	0.697	10.811	37.809	37.85	1.129	1.130	171.09	92.5	0.459	
24	24 13C-OCDD	2.43e5	0.93	NO	0.579	10.811	40.836	41.12	1.219	1.228	335.16	90.6	0.448	
25	25 13C-2,3,7,8-TCDF	2.56e5	0.77	NO	1.13	10.811	25.305	25.33	0.990	0.991	124.36	67.2	0.352	
26	26 13C-1,2,3,7,8-PeCDF	2.72e5	1.64	NO	0.996	10.811	29.541	29.48	1.156	1.153	149.90	81.0	0.562	
27	27 13C-2,3,4,7,8-PeCDF	2.66e5	1.64	NO	0.969	10.811	30.443	30.39	1.191	1.189	150.42	81.3	0.577	
28	28 13C-1,2,3,4,7,8-HxCDF	2.15e5	0.52	NO	1.06	10.811	33.087	33.08	0.988	0.988	162.49	87.8	0.474	
29	29 13C-1,2,3,6,7,8-HxCDF	2.28e5	0.52	NO	1.18	10.811	33.221	33.20	0.992	0.991	155.13	83.9	0.426	
30	30 13C-2,3,4,6,7,8-HxCDF	2.22e5	0.52	NO	1.06	10.811	33.794	33.81	1.009	1.009	168.07	90.8	0.474	
31	31 13C-1,2,3,7,8,9-HxCDF	1.92e5	0.52	NO	0.879	10.811	34.695	34.75	1.036	1.038	174.22	94.2	0.570	

Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_13.qld

Last Altered: Thursday, June 04, 2020 11:02:11 Pacific Daylight Time

Printed: Thursday, June 04, 2020 11:03:28 Pacific Daylight Time

Name: 200603D1\_13, Date: 03-Jun-2020, Time: 23:42:05, ID: 2000945-07 PDI-146SC-A-06-07-200426 14.13, Description: PDI-146SC-A-06-07-200426

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.84e5	0.44	NO	0.893	10.811	36.403	36.58	1.087	1.092	164.56	89.0	0.474	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.37e5	0.45	NO	0.613	10.811	38.412	38.38	1.147	1.146	178.41	96.4	0.689	
34	34 13C-OCDF	2.84e5	0.89	NO	0.741	10.811	40.991	41.33	1.224	1.234	305.91	82.7	0.440	
35	35 37Cl-2,3,7,8-TCDD	7.80e4			1.18	10.811	26.223	26.14	1.026	1.023	57.545	77.8	0.0769	
36	36 13C-1,2,3,4-TCDD	2.13e5	0.78	NO	1.00	10.811	25.480	25.56	1.000	1.000	185.00	100	0.307	
37	37 13C-1,2,3,4-TCDF	3.37e5	0.77	NO	1.00	10.811	24.020	24.11	1.000	1.000	185.00	100	0.397	
38	38 13C-1,2,3,4,6,9-HxCDF	2.31e5	0.51	NO	1.00	10.811	33.530	33.49	1.000	1.000	185.00	100	0.501	
39	39 Total Tetra-Dioxins				0.987	10.811	24.620		0.000		0.00000		0.0621	0.0700
40	40 Total Penta-Dioxins				0.982	10.811	29.960		0.000				0.0435	
41	41 Total Hexa-Dioxins				1.04	10.811	33.635		0.000		0.63116		0.138	0.889
42	42 Total Hepta-Dioxins				0.992	10.811	37.640		0.000		3.2106		0.0980	3.21
43	43 Total Tetra-Furans				0.882	10.811	23.610		0.000		0.073303		0.0363	0.0733
44	44 1st Func. Penta-Furans				1.05	10.811	27.090		0.000				0.00996	
45	45 Total Penta-Furans				1.05	10.811	29.275		0.000		0.00000		0.0245	0.0503
46	46 Total Hexa-Furans				1.11	10.811	33.555		0.000		0.093225		0.0409	0.256
47	47 Total Hepta-Furans				1.13	10.811	37.835		0.000		0.17576		0.0504	0.176

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_13.qld

Last Altered: Thursday, June 04, 2020 11:02:11 Pacific Daylight Time

Printed: Thursday, June 04, 2020 11:03:28 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24

Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200603D1\_13, Date: 03-Jun-2020, Time: 23:42:05, ID: 2000945-07 PDI-146SC-A-06-07-200426 14.13, Description: PDI-146SC-A-06-07-200426

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.25	1.906e3	8.430e2	5.600e1	4.125e1	1.36	YES	0.000e0	0.00000	0.070023	0.0621

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.47	6.498e3	4.811e3	3.575e2	2.556e2	1.40	NO	6.131e2	0.63116	0.63116	0.138
2	Total Hexa-Dioxins	33.27	2.939e3	2.091e3	1.741e2	1.117e2	1.56	YES	0.000e0	0.00000	0.25762	0.138

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.00	1.093e4	1.174e4	7.293e2	6.880e2	1.06	NO	1.417e3	1.7734	1.7734	0.0980
2	1,2,3,4,6,7,8-HpCDD	37.87	9.213e3	1.125e4	5.696e2	5.791e2	0.98	NO	1.149e3	1.4372	1.4372	0.0980

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	25.58	9.890e2	7.660e2	4.188e1	4.744e1	0.88	NO	8.932e1	0.073303	0.073303	0.0363

**Penta-Furans function 1**

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

Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_13.qld

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Printed: Thursday, June 04, 2020 11:03:28 Pacific Daylight Time

Name: 200603D1\_13, Date: 03-Jun-2020, Time: 23:42:05, ID: 2000945-07 PDI-146SC-A-06-07-200426 14.13, Description: PDI-146SC-A-06-07-200426

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8-PeCDF	29.50	8.730e2	1.265e3	4.704e1	4.983e1	0.94	YES	9.687e1	0.00000	0.050294	0.0228

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,7,8-HxCDF	33.09	3.250e3	1.972e3	1.552e2	9.137e1	1.70	YES	2.465e2	0.00000	0.16266	0.0381
2	1,2,3,7,8,9-HxCDF	34.76	9.090e2	1.054e3	5.283e1	4.918e1	1.07	NO	1.020e2	0.093225	0.093225	0.0535

**Hepta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.62	2.121e3	2.048e3	9.307e1	1.038e2	0.90	NO	1.969e2	0.17576	0.17576	0.0478



Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_13.qld

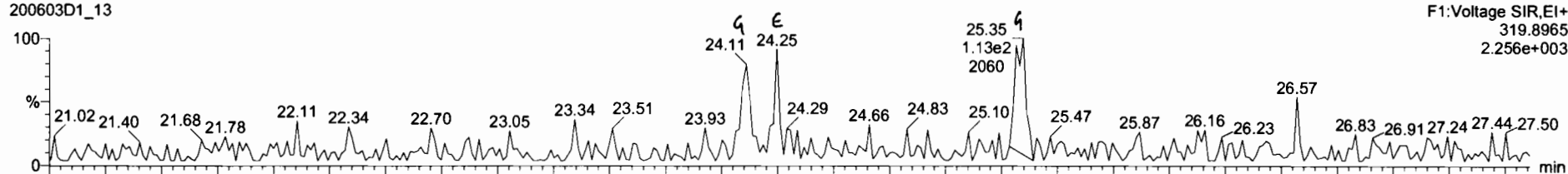
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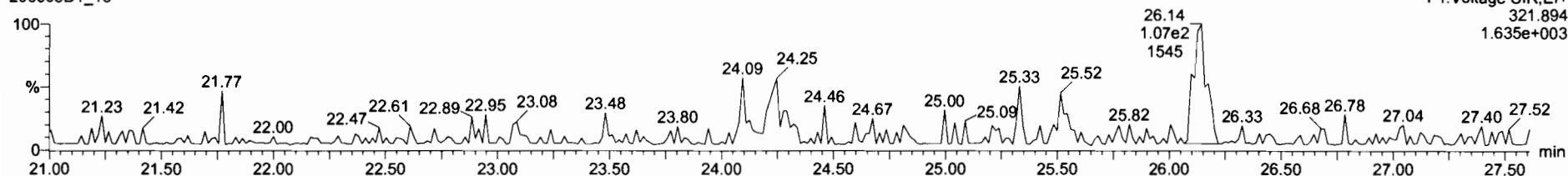
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2,3,7,8-TCDD

200603D1\_13

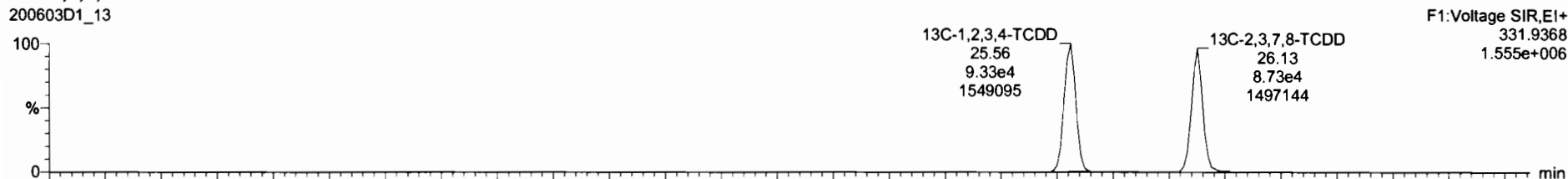


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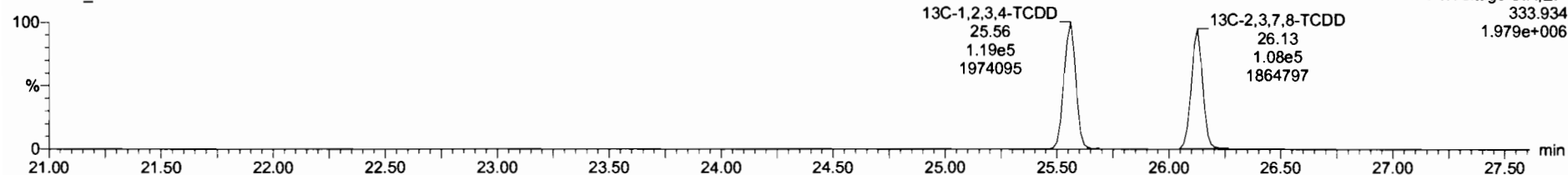


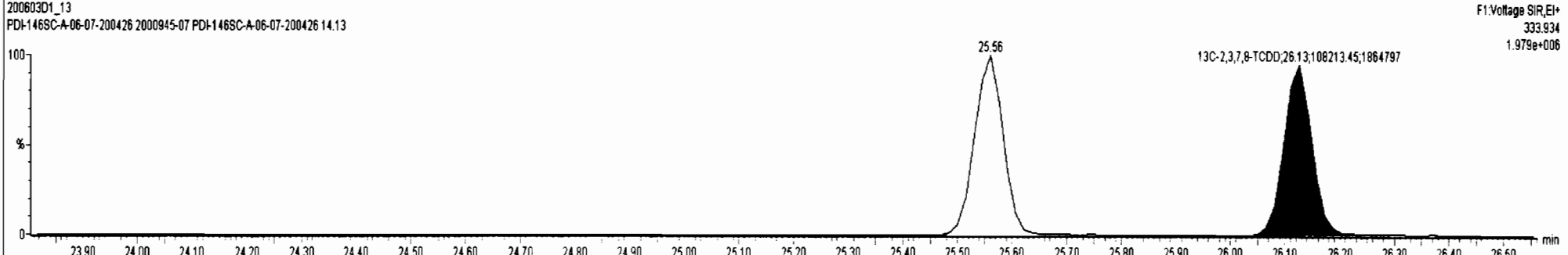
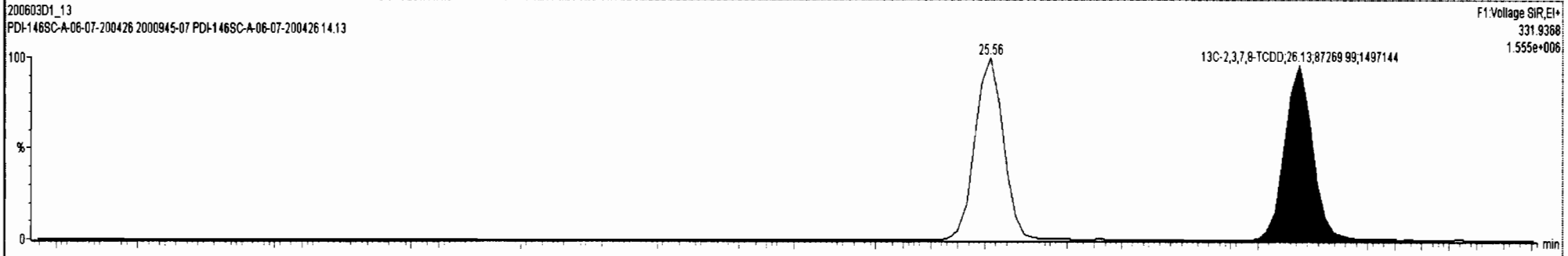
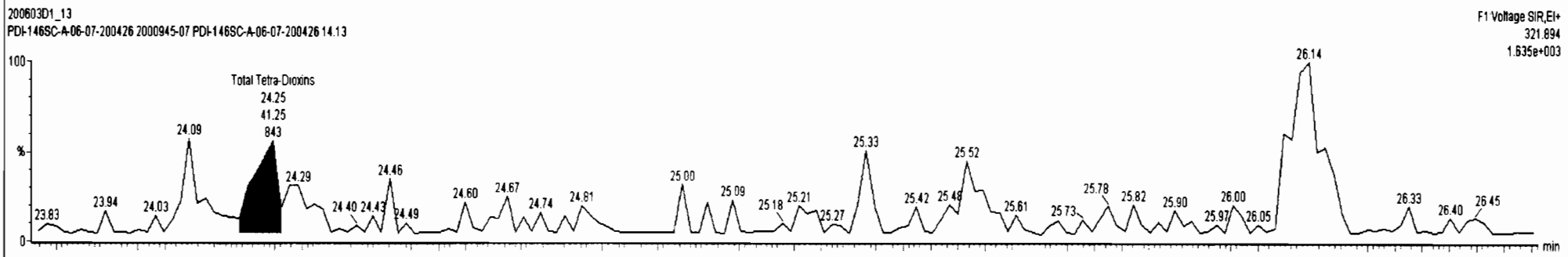
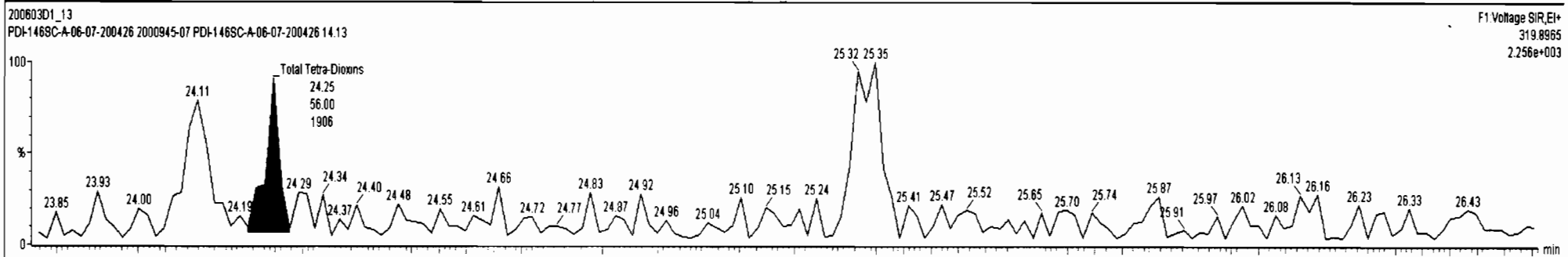
13C-2,3,7,8-TCDD

200603D1\_13



200603D1\_13





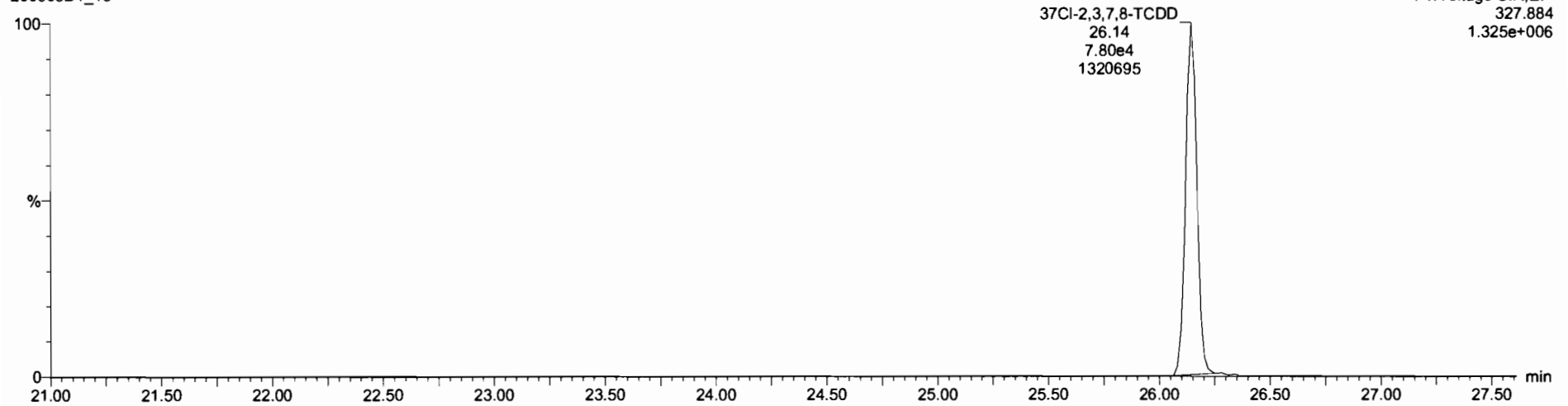
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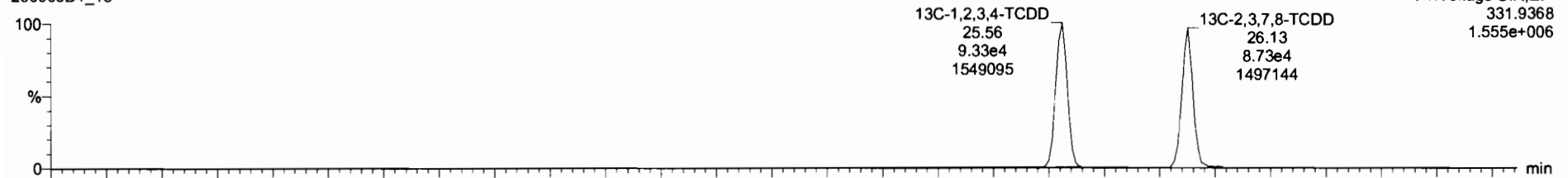
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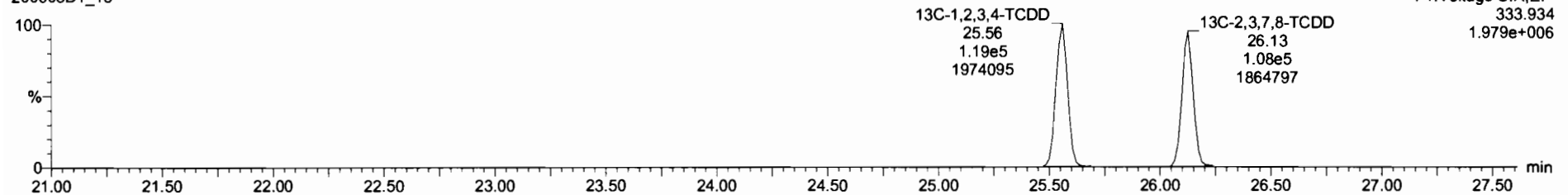


**13C-1,2,3,4-TCDD**

200603D1\_13



200603D1\_13



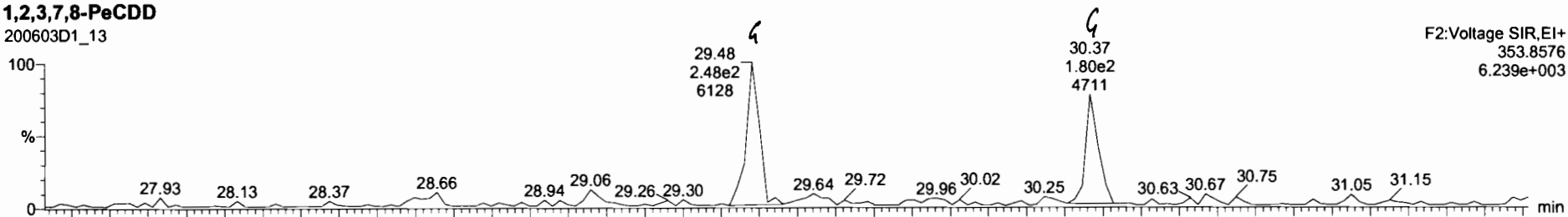
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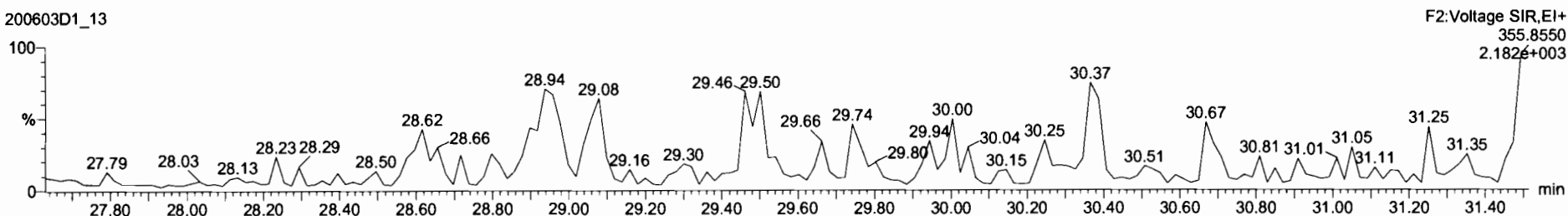
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1,2,3,7,8-PeCDD

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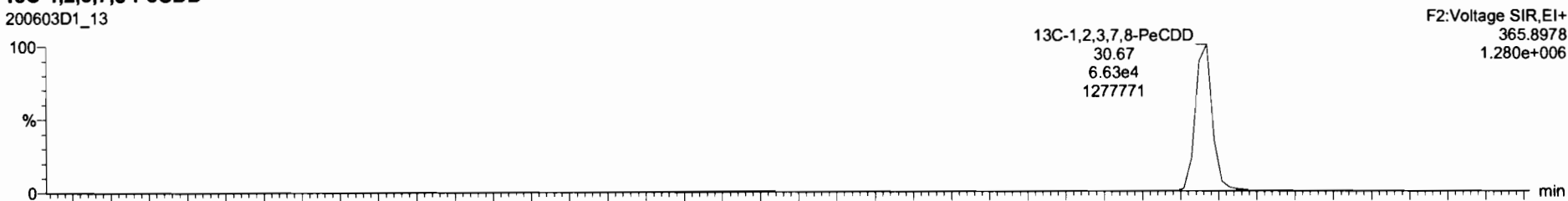


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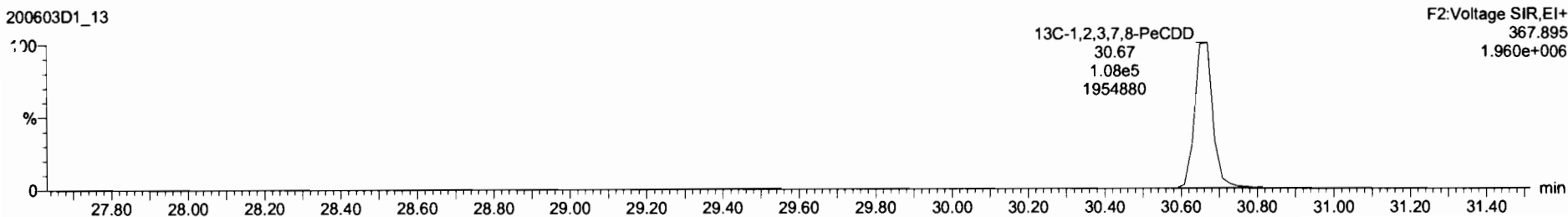


13C-1,2,3,7,8-PeCDD

200603D1\_13



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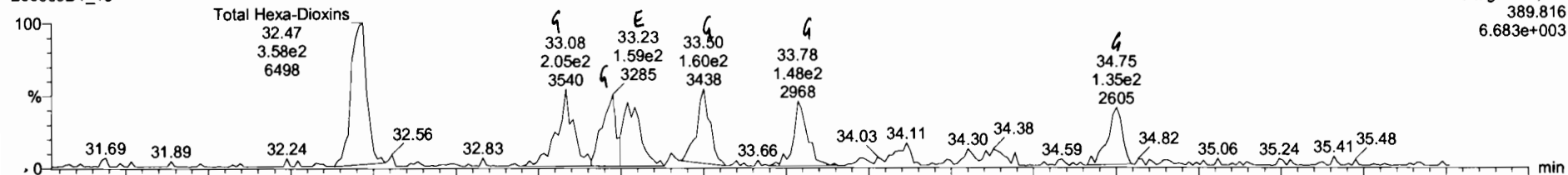
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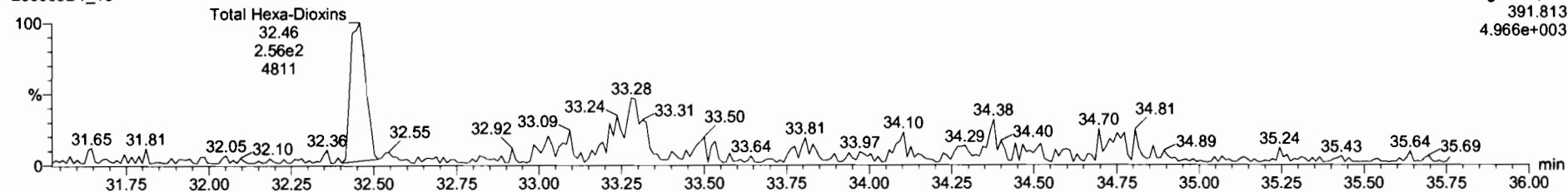
1,2,3,4,7,8-HxCDD

200603D1\_13



F3: Voltage SIR, EI+  
389.816  
6.683e+003

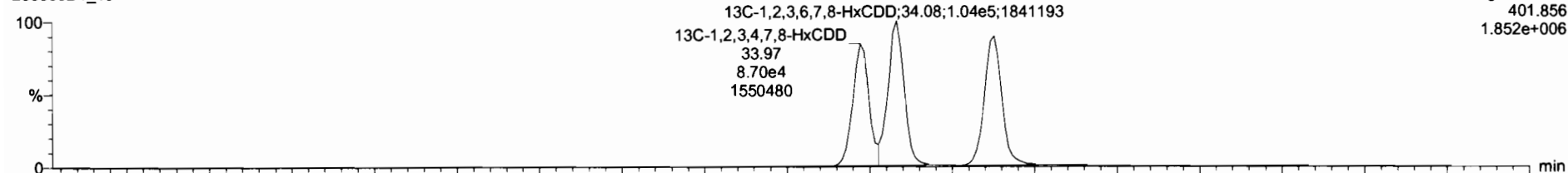
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F3: Voltage SIR, EI+  
391.813  
4.966e+003

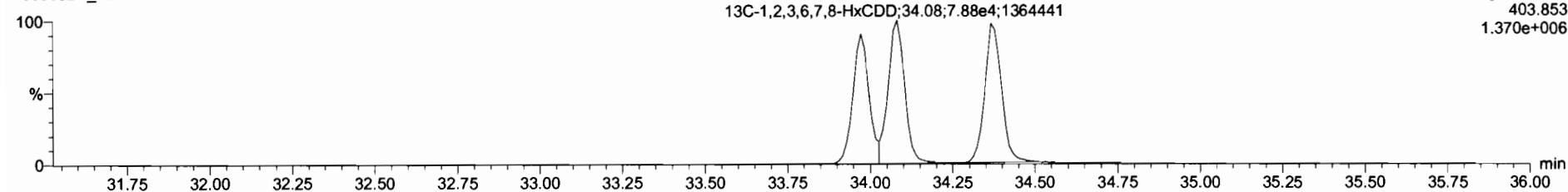
13C-1,2,3,4,7,8-HxCDD

200603D1\_13



F3: Voltage SIR, EI+  
401.856  
1.852e+006

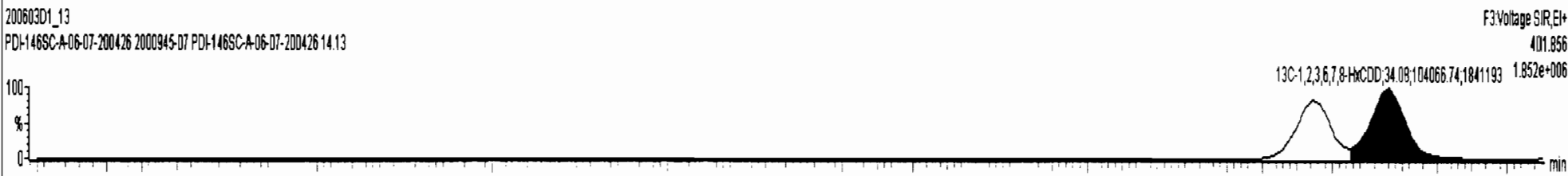
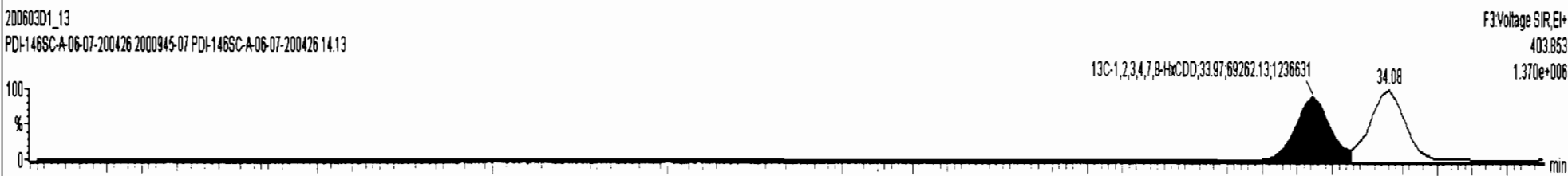
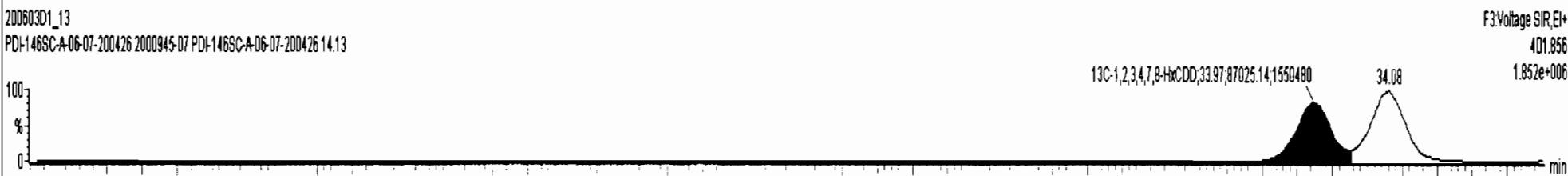
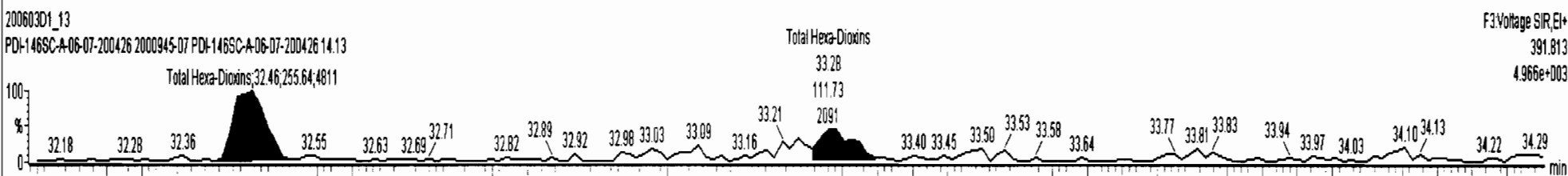
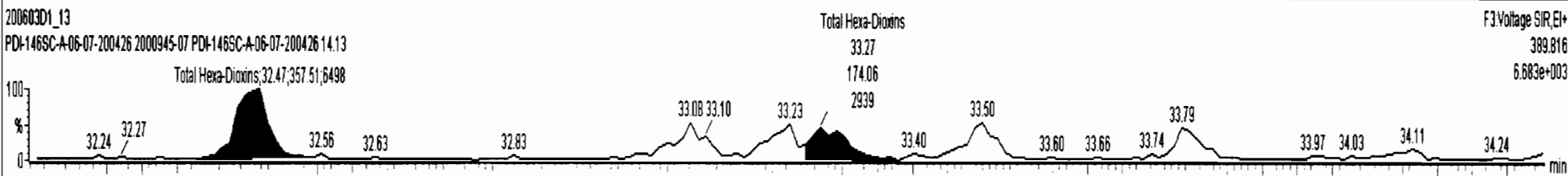
200603D1\_13



F3: Voltage SIR, EI+  
403.853  
1.370e+006



200603D1\_12 - 200945-07 PDI-146SC-A-06-07-200426 14.13 - PDI-146SC-A-06-07-200426



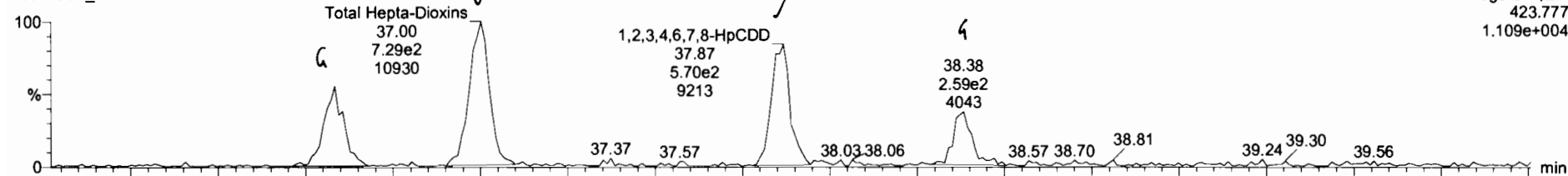
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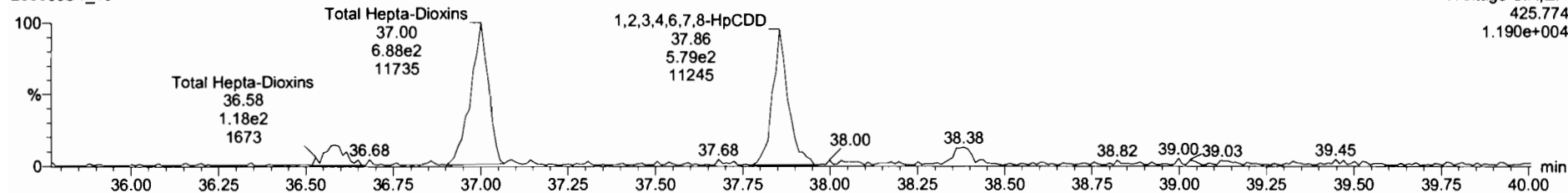
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1,2,3,4,6,7,8-HpCDD

200603D1\_13

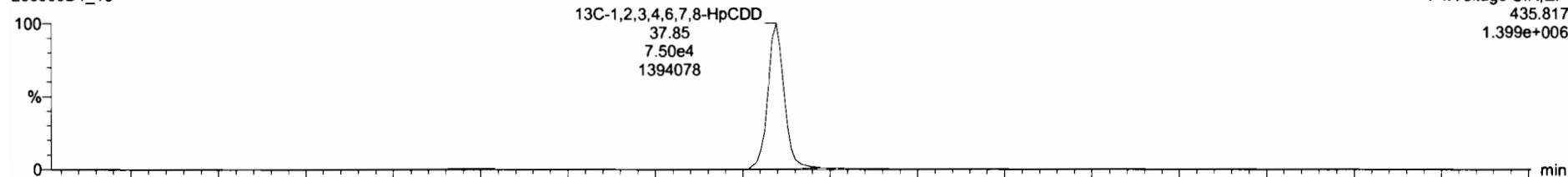


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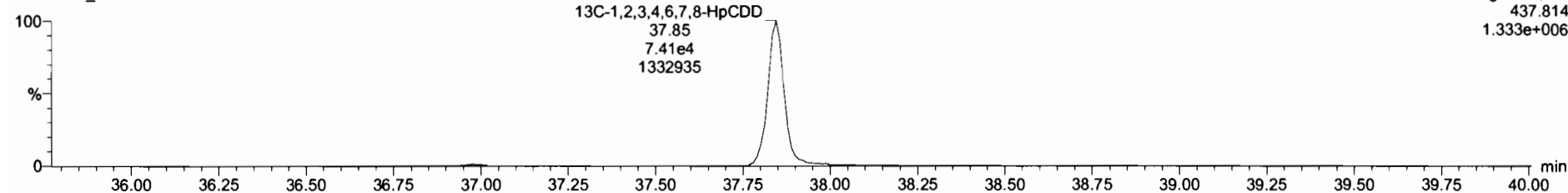


13C-1,2,3,4,6,7,8-HpCDD

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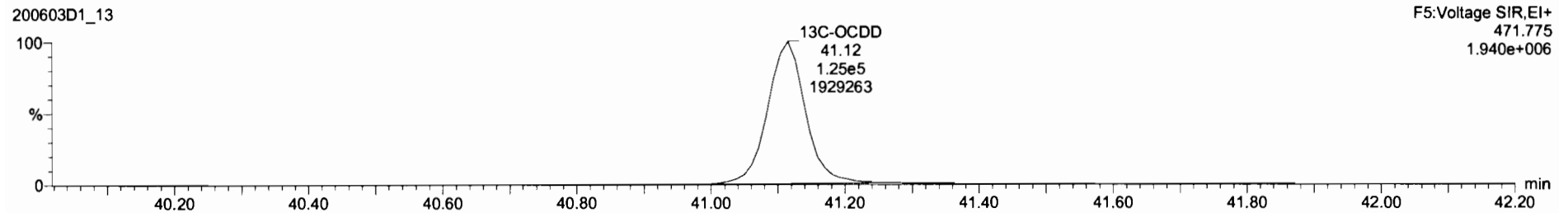
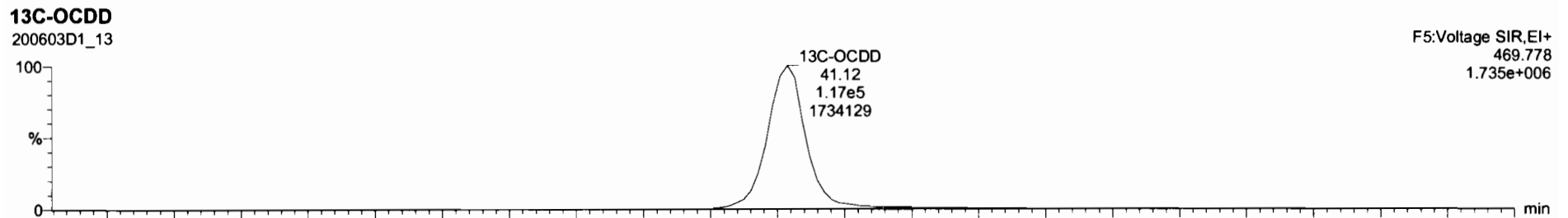
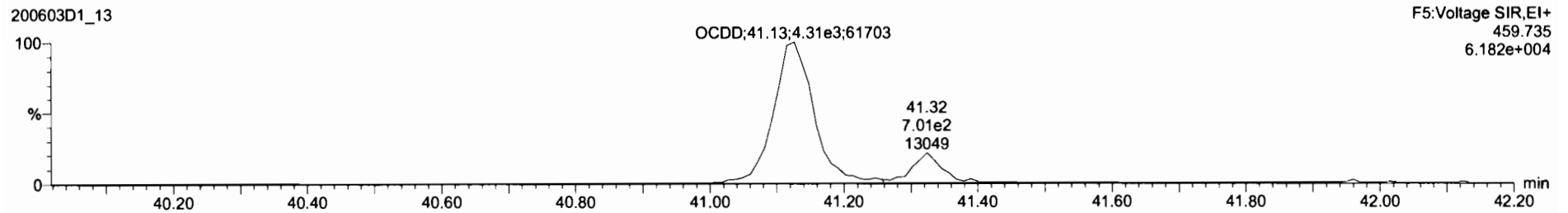
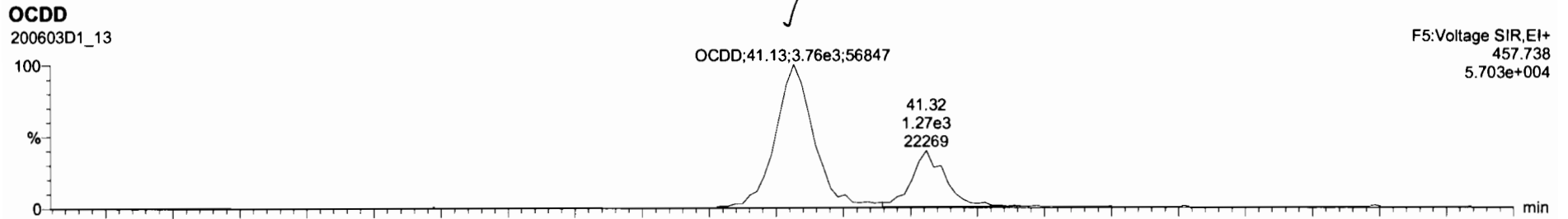
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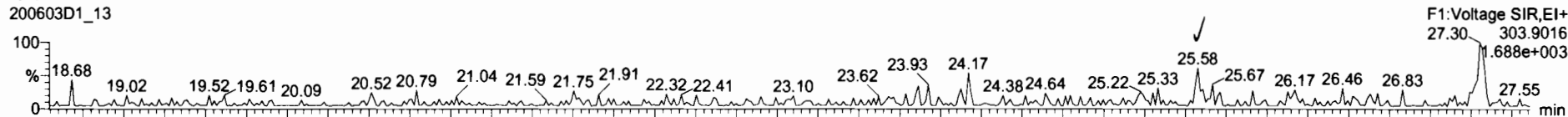
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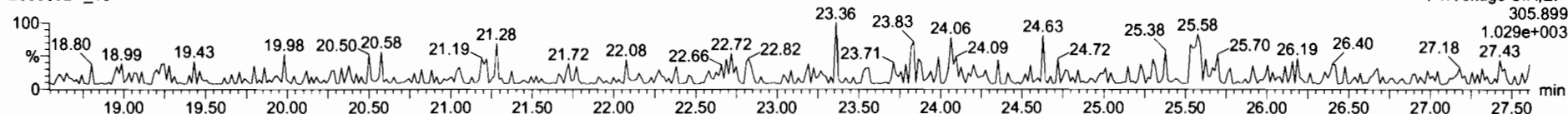
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2,3,7,8-TCDF

200603D1\_13

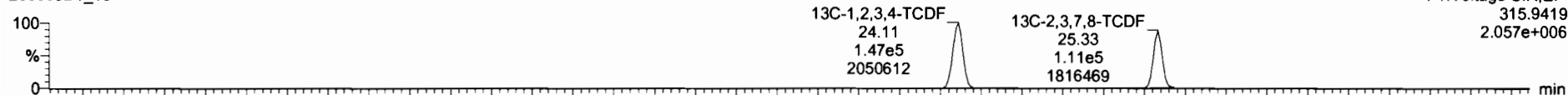


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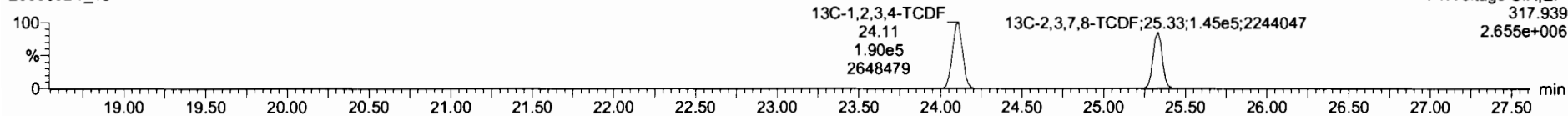


13C-2,3,7,8-TCDF

200603D1\_13

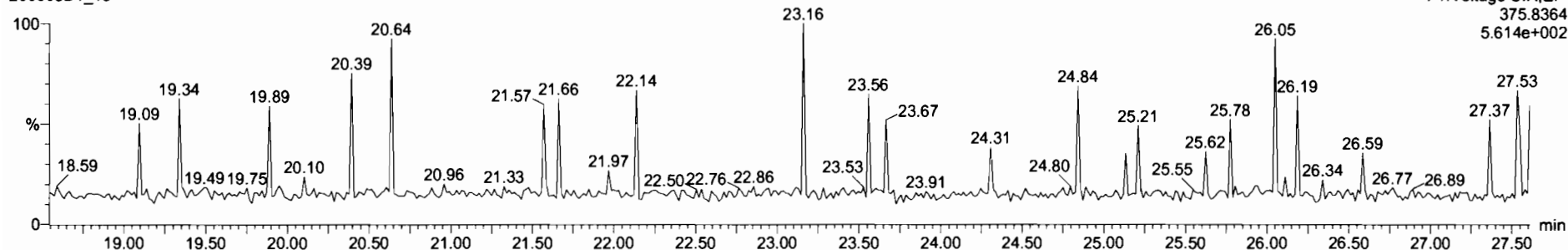


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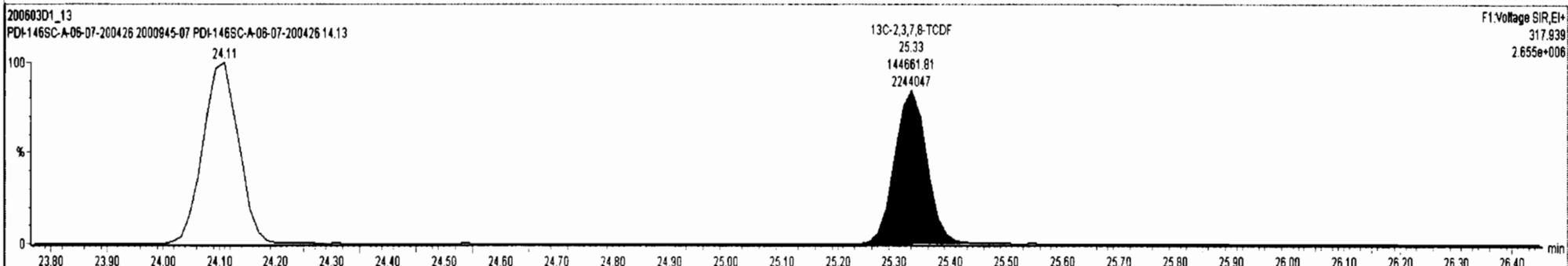
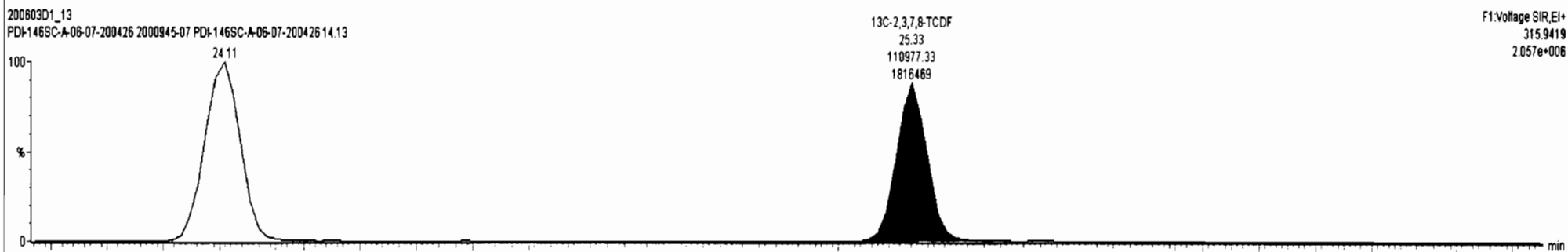
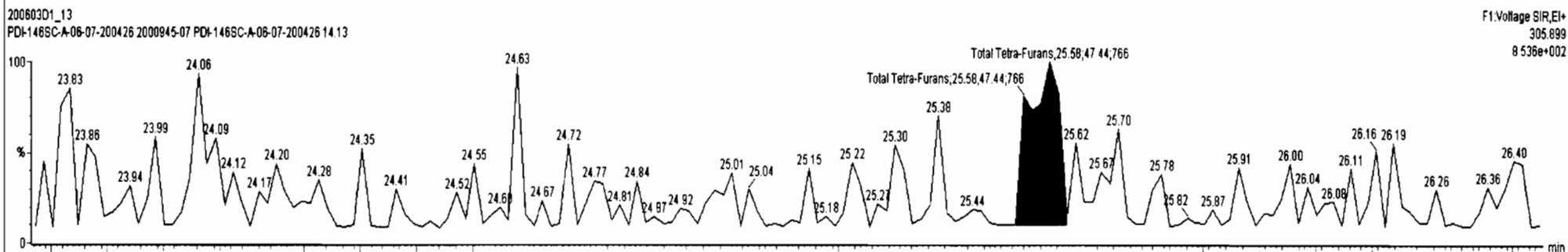
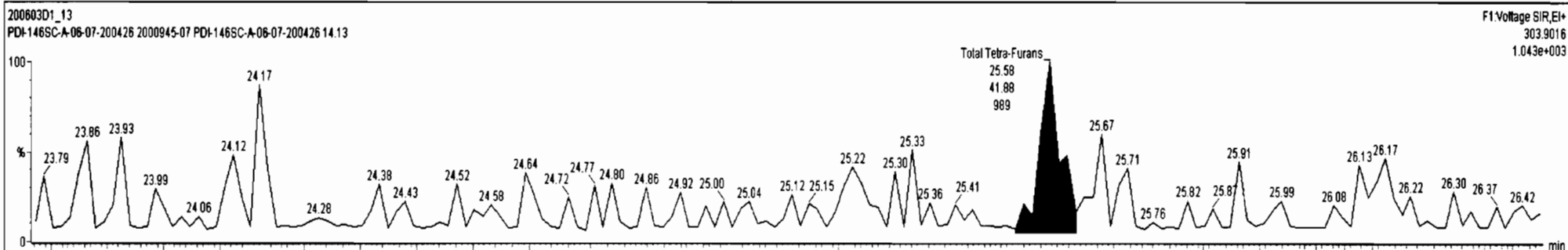


DPE1

200603D1\_13



200603D1\_13\_20090707-011-59\_4-08-07-2004261413\_0112-01130-A-06-07-200426



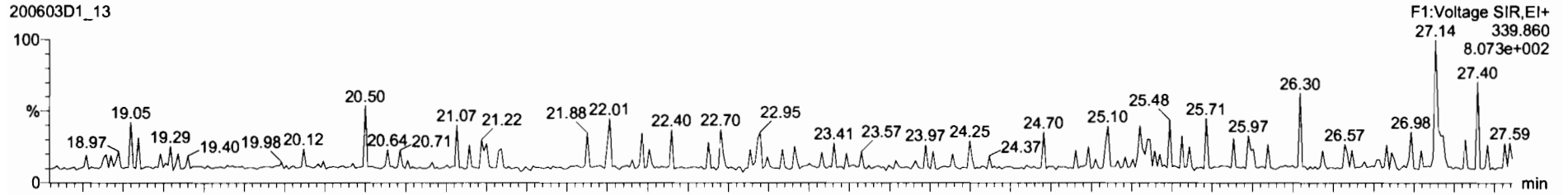
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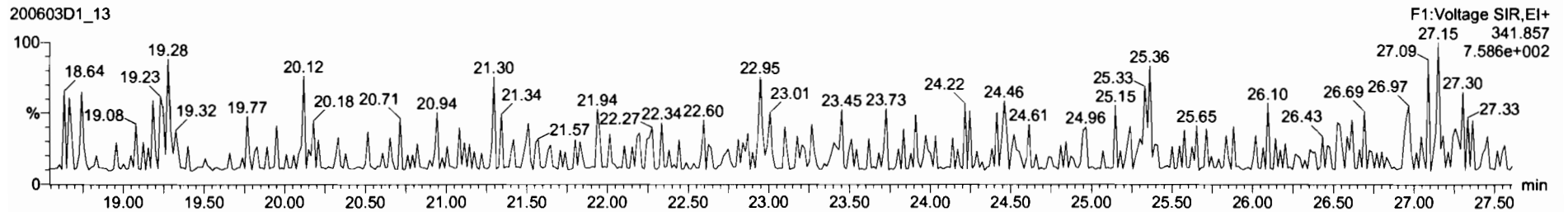
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1st Func. Penta-Furans

200603D1\_13

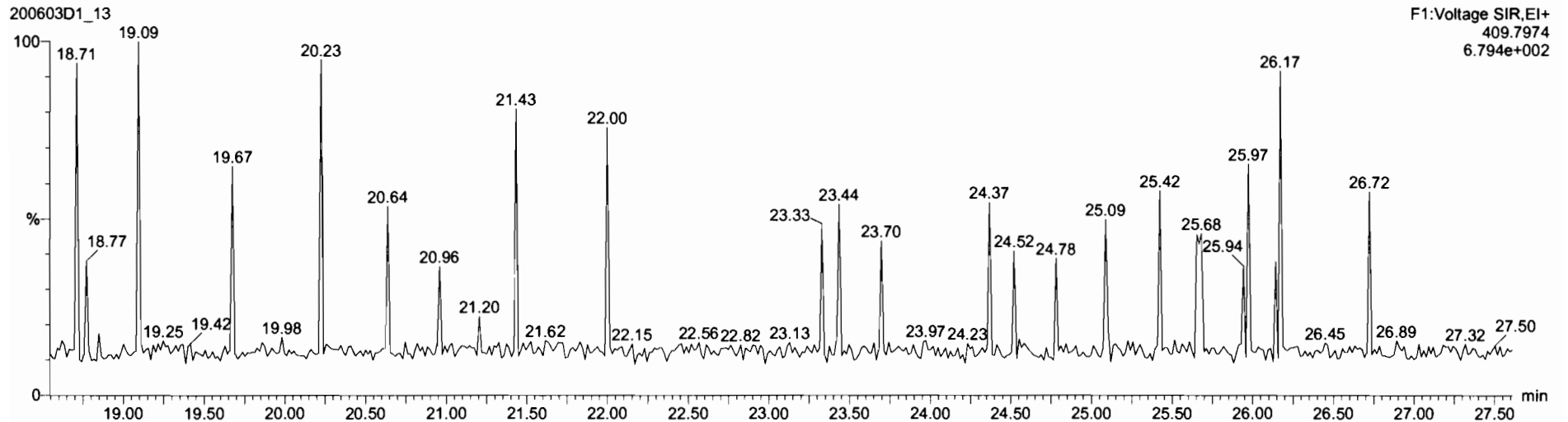


200603D1\_13



DPE6

200603D1\_13



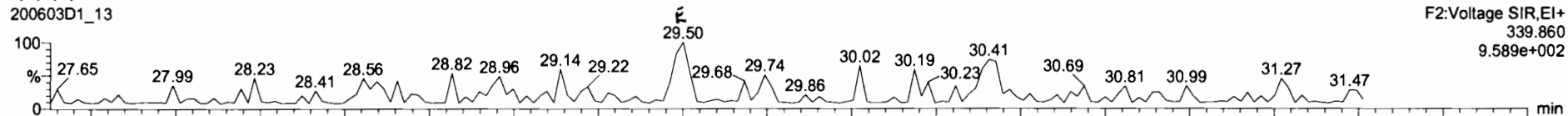
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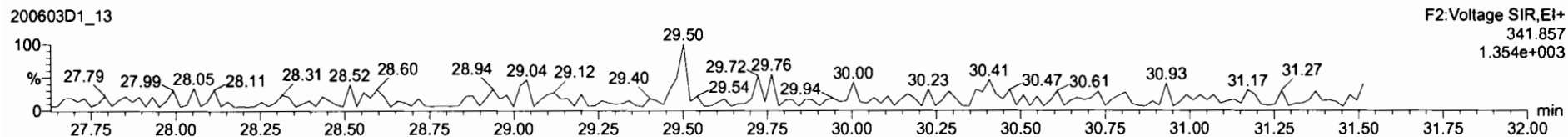
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**1,2,3,7,8-PeCDF**

200603D1\_13

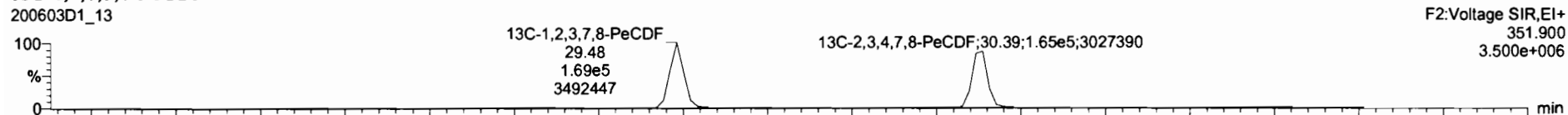


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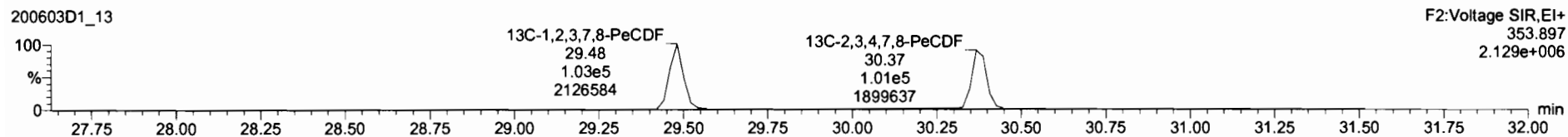


**13C-1,2,3,7,8-PeCDF**

200603D1\_13

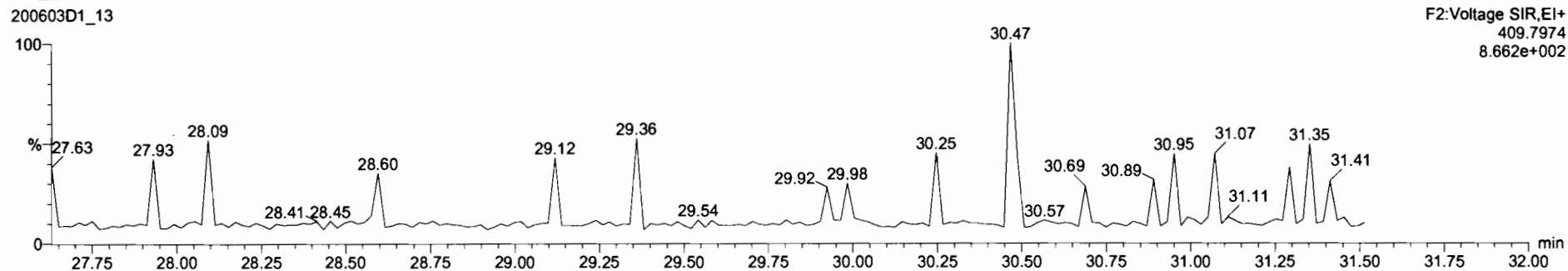


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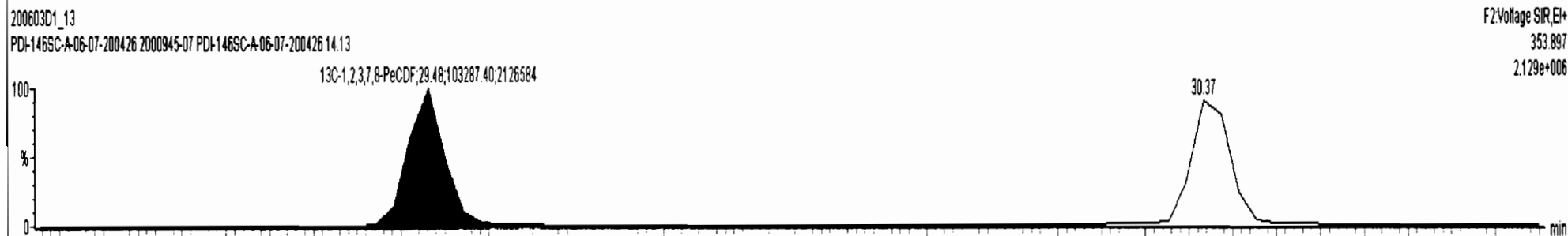
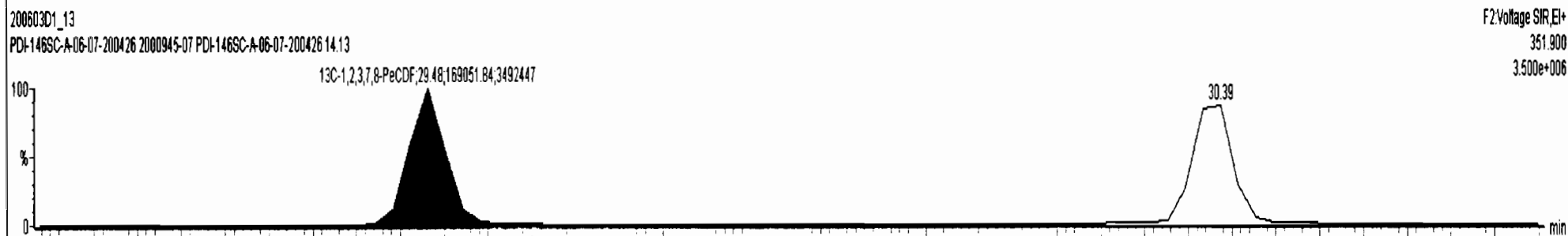
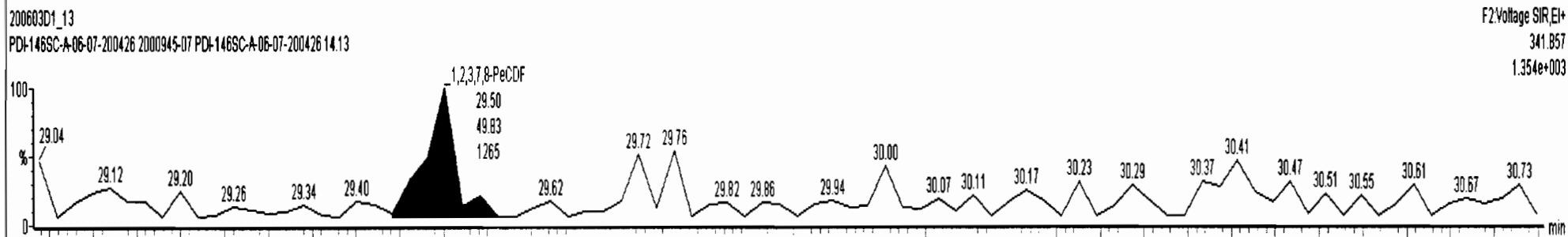
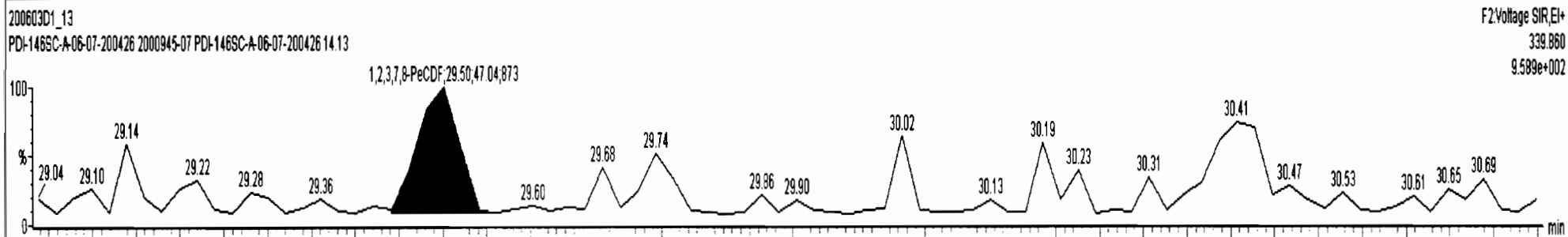
**DPE2**

200603D1\_13





20060301\_13\_2000945-07-PDI-146SC-A-06-07-200426-14.13-PDI-146SC-A-06-07-200426



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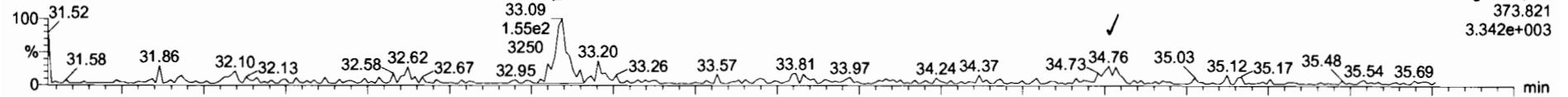
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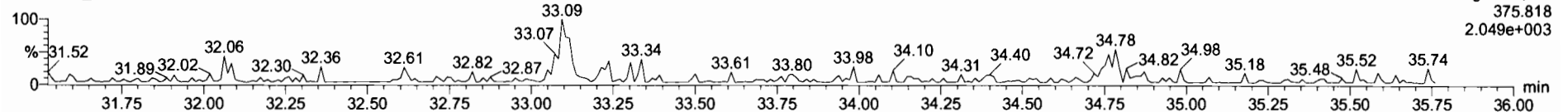
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**1,2,3,4,7,8-HxCDF**

200603D1\_13

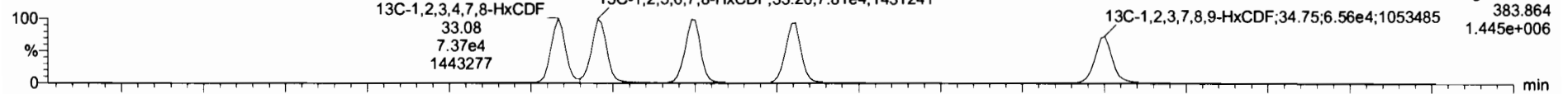


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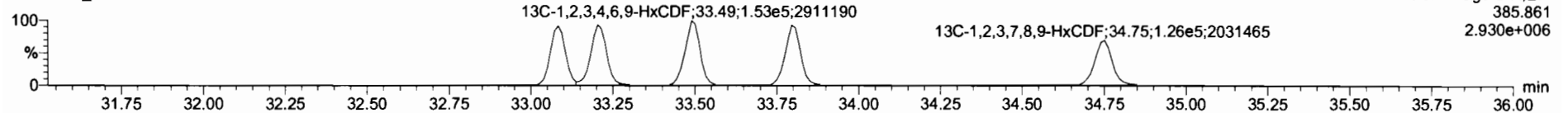


**13C-1,2,3,4,7,8-HxCDF**

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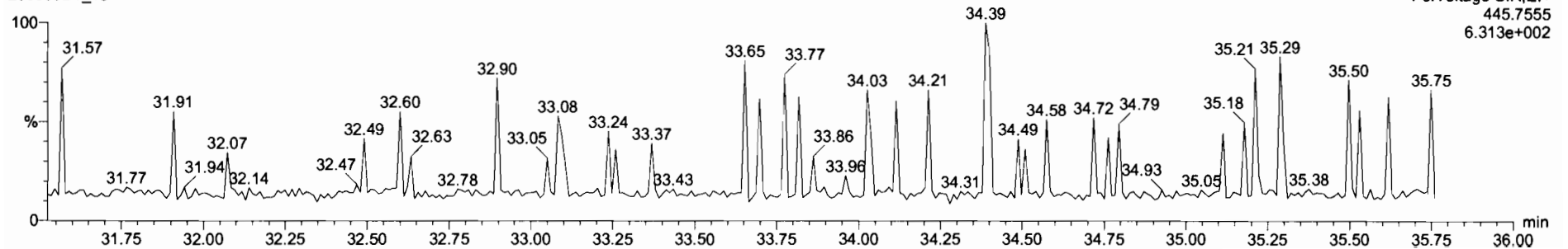


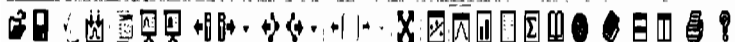
200603D1\_13



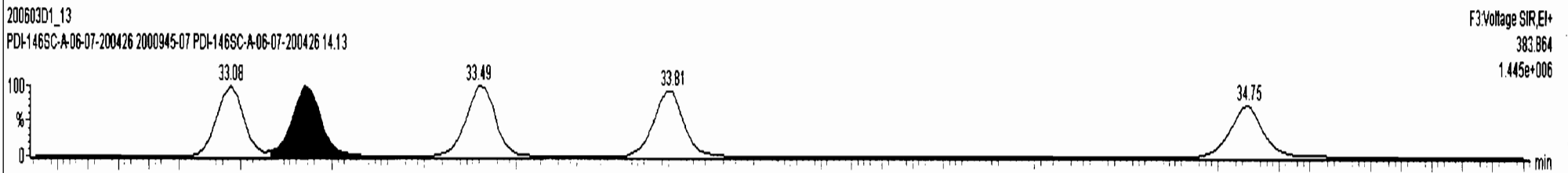
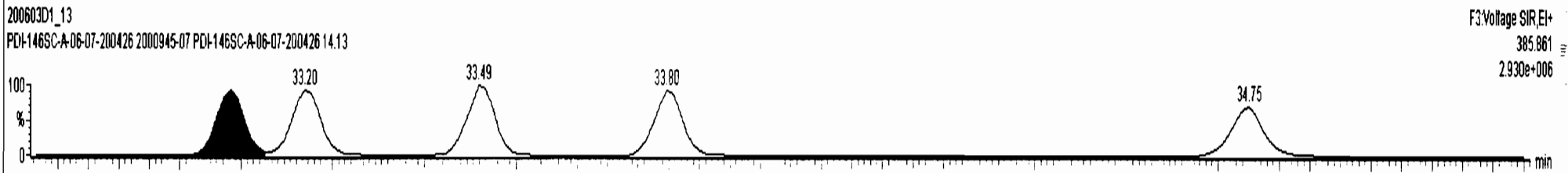
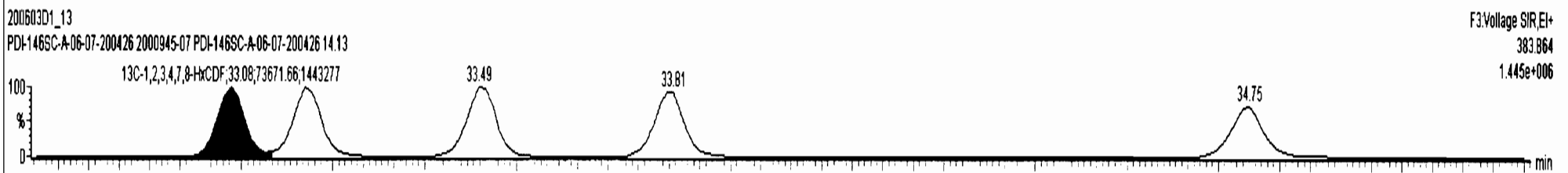
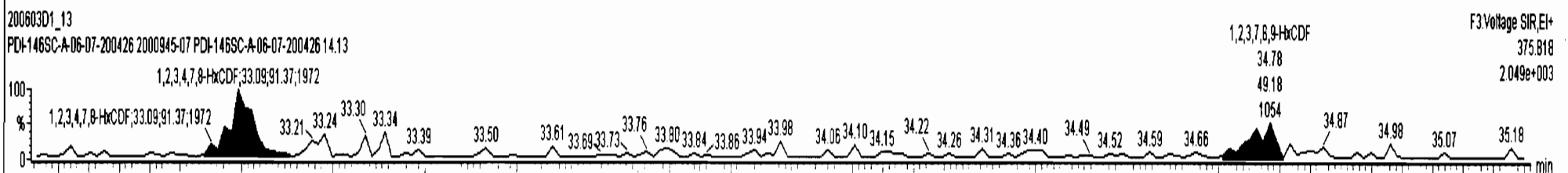
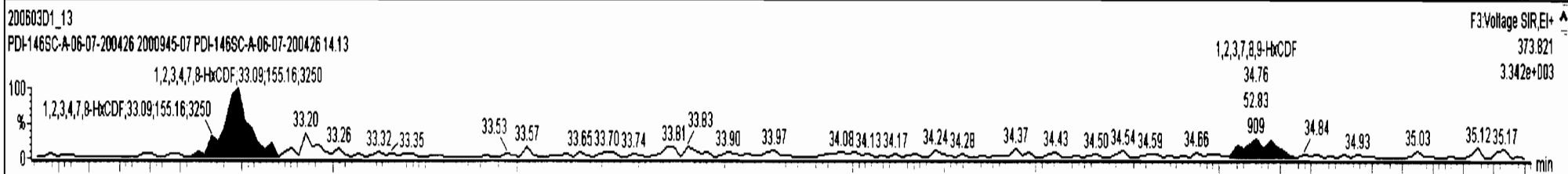
**DPE3**

200603D1\_13





200603D1\_13 - 2000945-07-PDI-146SC-A-06-07-200426 14.13 - 2000945-07-PDI-146SC-A-06-07-200426



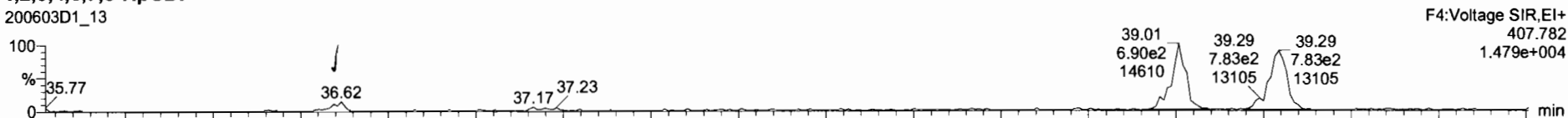
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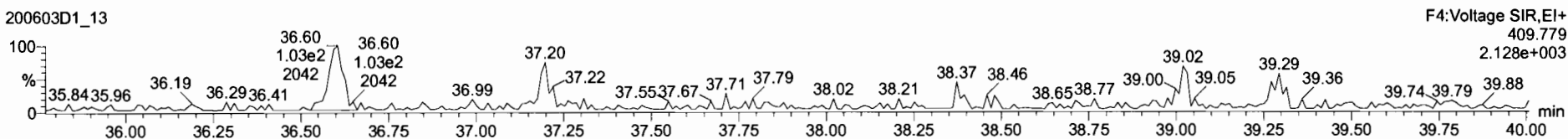
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**1,2,3,4,6,7,8-HpCDF**

200603D1\_13

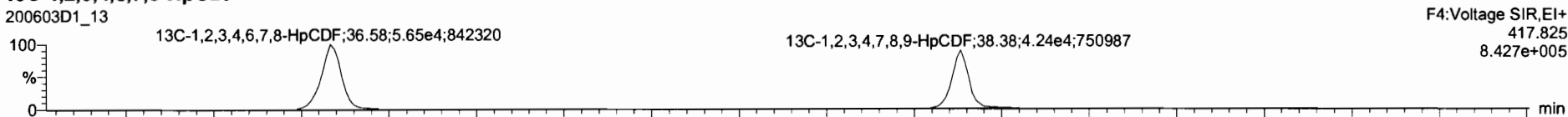


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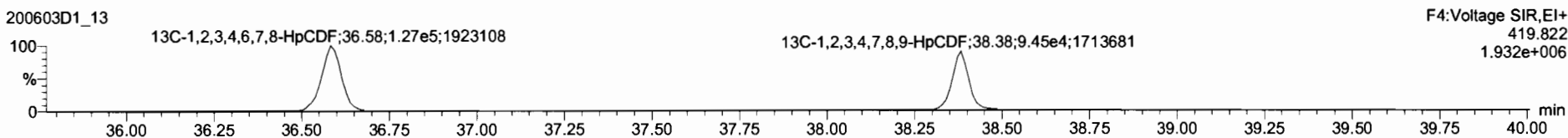


**13C-1,2,3,4,6,7,8-HpCDF**

200603D1\_13

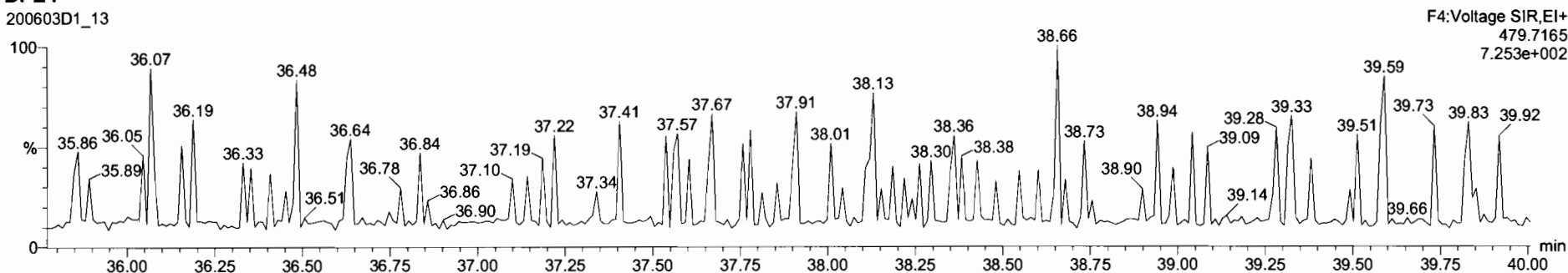


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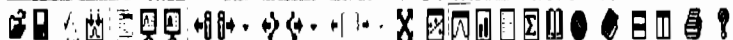


**DPE4**

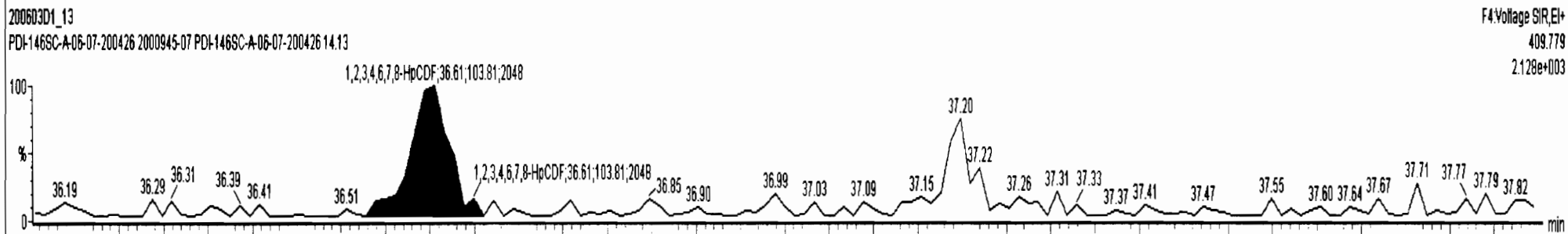
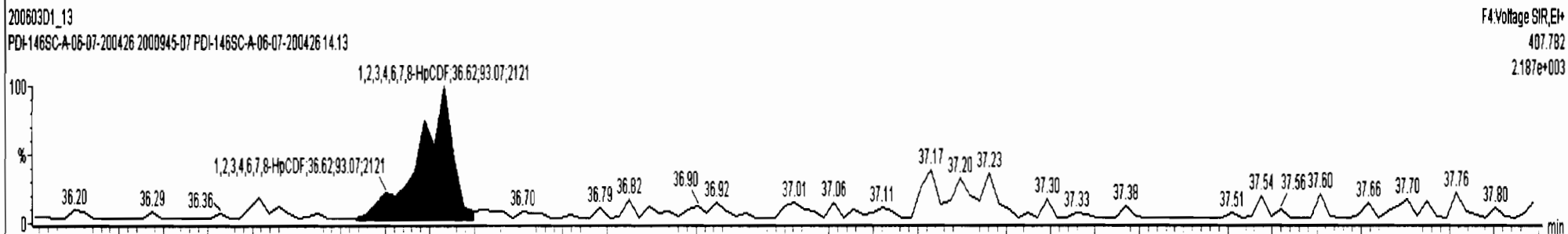
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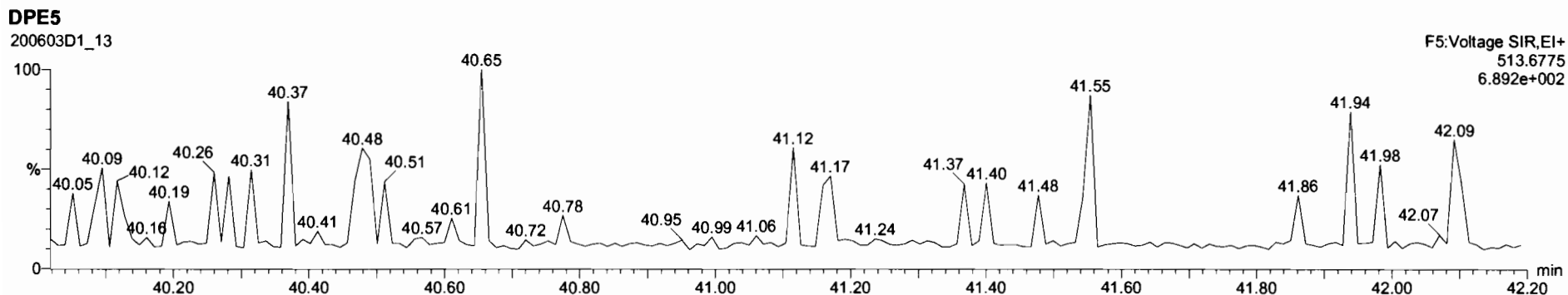
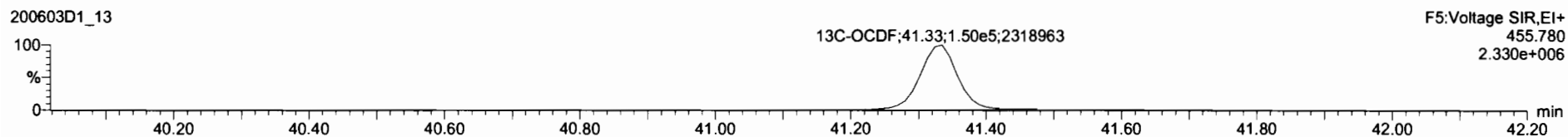
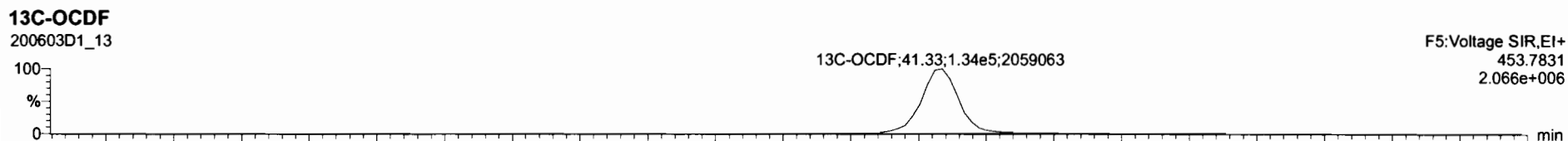
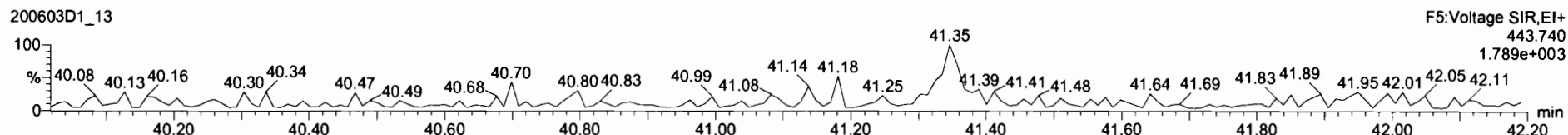
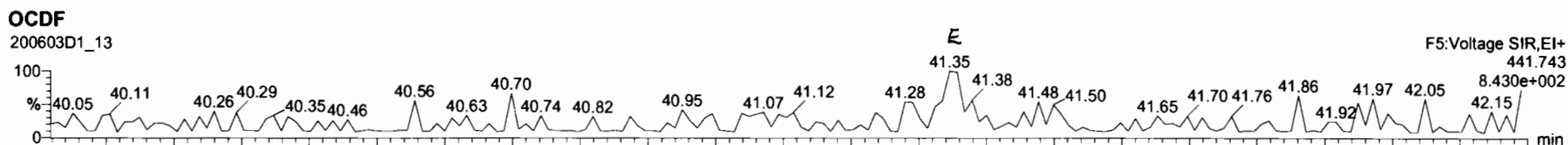
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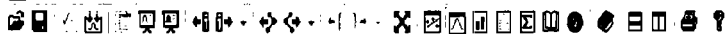


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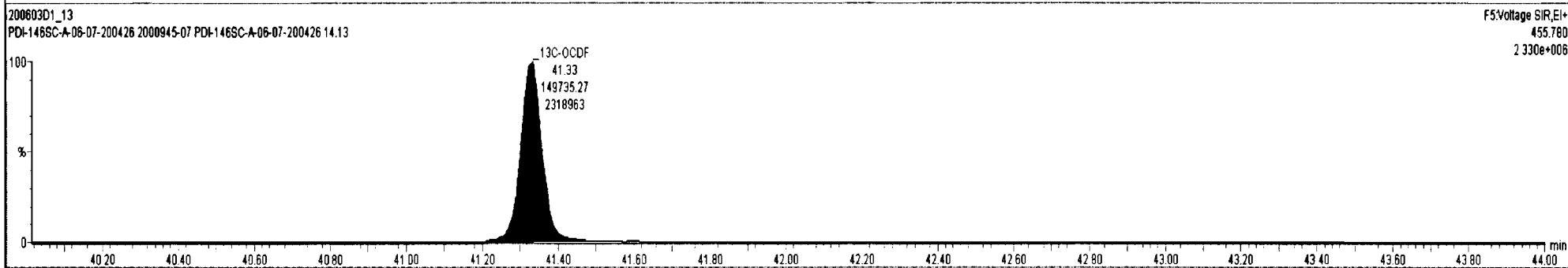
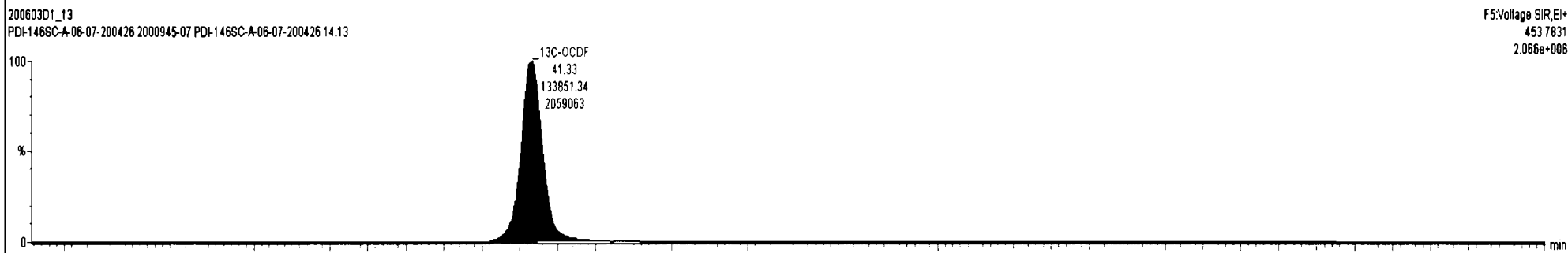
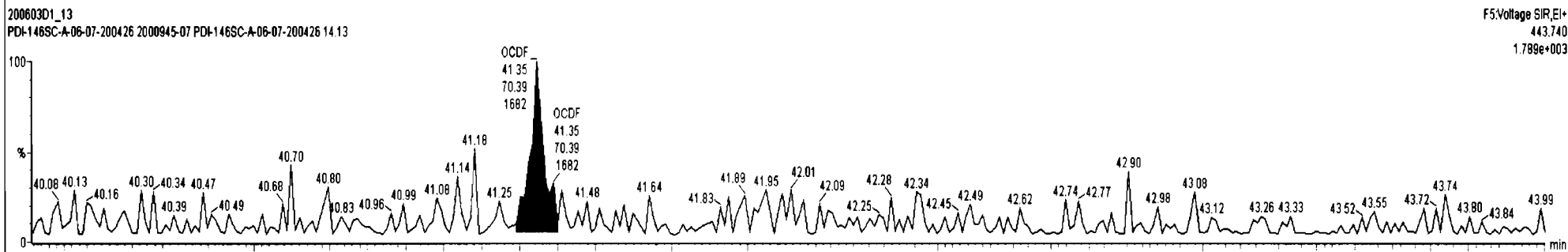
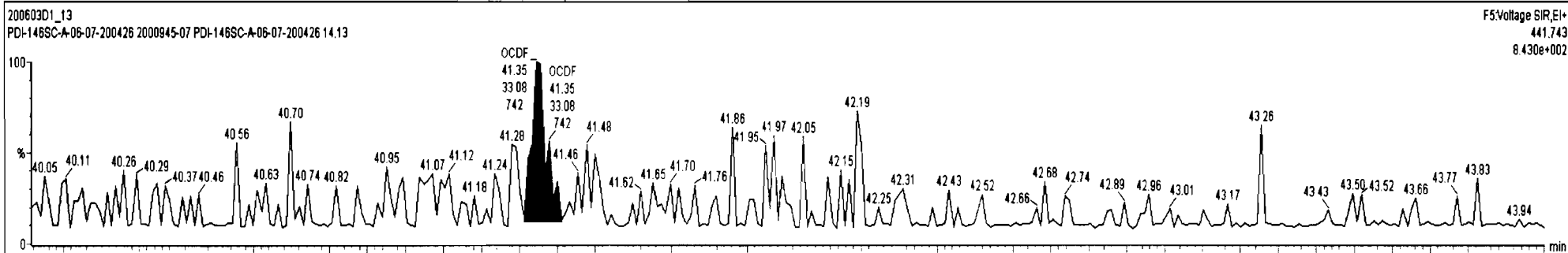
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Name: 200603D1\_13, Date: 03-Jun-2020, Time: 23:42:05, ID: 2000945-07 PDI-146SC-A-06-07-200426 14.13, Description: PDI-146SC-A-06-07-200426





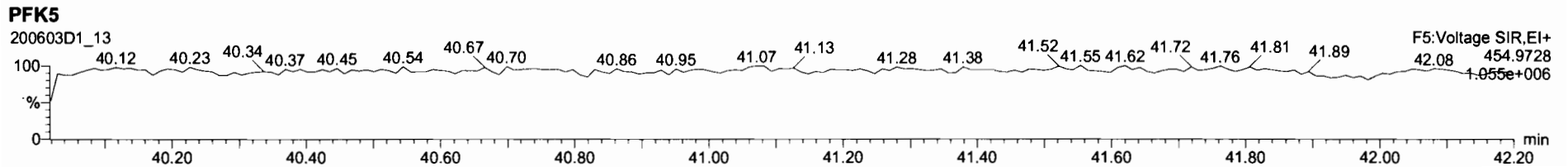
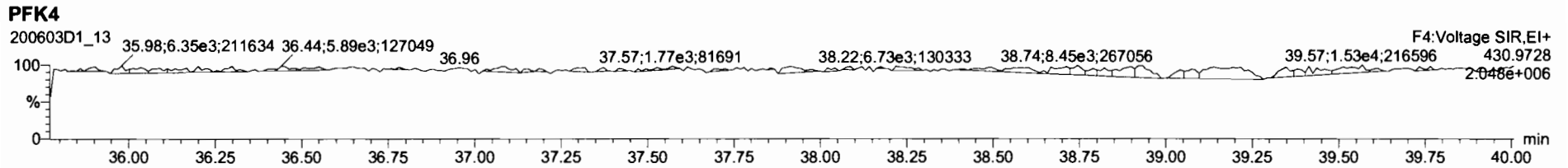
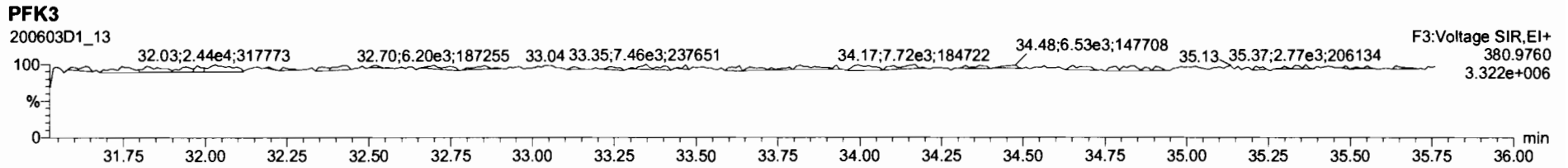
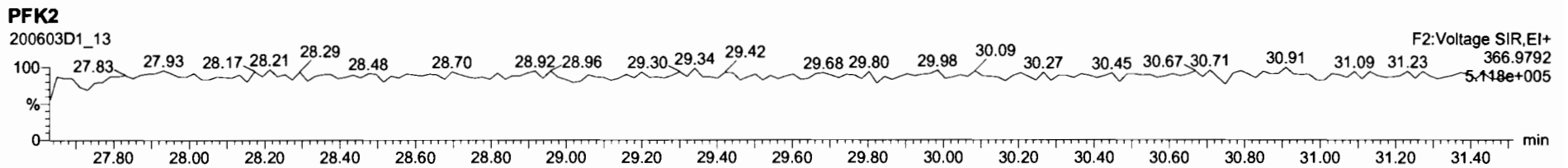
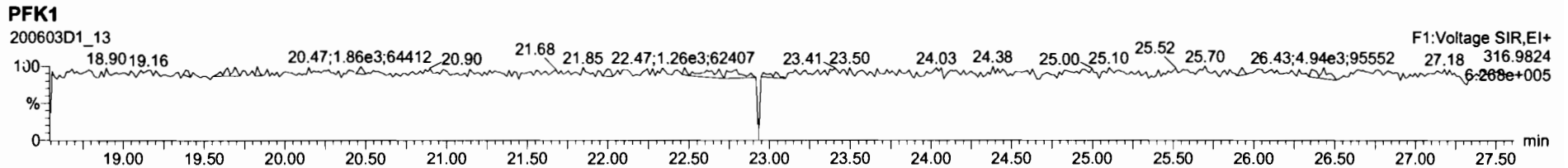
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Printed: Thursday, June 04, 2020 10:04:50 Pacific Daylight Time

Name: 200603D1\_13, Date: 03-Jun-2020, Time: 23:42:05, ID: 2000945-07 PDI-146SC-A-06-07-200426 14.13, Description: PDI-146SC-A-06-07-200426



Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_14.qld

Last Altered: Thursday, June 04, 2020 11:25:52 Pacific Daylight Time  
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*DB 6/4/20 07 06/05/20*

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24  
Calibration: U:\VG7.PRO\CurveDB\1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200603D1\_14, Date: 04-Jun-2020, Time: 00:27:11, ID: 2000945-08 PDI-146SC-A-07-08-200426 13.17, Description: PDI-146SC-A-07-08-200426

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.987	9.970	26.158		1.001				0.0913	
2	2 1,2,3,7,8-PeCDD			NO	0.982	9.970	30.690		1.001				0.114	
3	3 1,2,3,4,7,8-HxCDD			NO	1.17	9.970	33.982		1.000				0.124	
4	4 1,2,3,6,7,8-HxCDD			NO	1.04	9.970	34.082		1.000				0.123	
5	5 1,2,3,7,8,9-HxCDD			NO	1.00	9.970	34.412		1.001				0.146	
6	6 1,2,3,4,6,7,8-HpCDD	1.55e2	1.09	NO	0.992	9.970	37.856	37.87	1.000	1.001	0.20394		0.120	0.204
7	7 OCDD	7.94e2	0.84	NO	1.04	9.970	41.115	41.12	1.000	1.000	1.2065		0.143	1.21
8	8 2,3,7,8-TCDF			NO	0.882	9.970	25.357		1.001				0.0610	
9	9 1,2,3,7,8-PeCDF			NO	1.05	9.970	29.502		1.001				0.0546	
10	10 2,3,4,7,8-PeCDF			NO	1.06	9.970	30.417		1.001				0.0570	
11	11 1,2,3,4,7,8-HxCDF			NO	1.08	9.970	33.083		1.000				0.0593	
12	12 1,2,3,6,7,8-HxCDF			NO	1.04	9.970	33.214		1.000				0.0646	
13	13 2,3,4,6,7,8-HxCDF			NO	1.11	9.970	33.830		1.001				0.0659	
14	14 1,2,3,7,8,9-HxCDF	8.46e1	0.90	YES	1.06	9.970	34.751	34.76	1.000	1.000	0.081373		0.0466	0.0697
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.13	9.970	36.620		1.001				0.0868	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.33	9.970	38.383		1.000				0.0798	
17	17 OCDF			NO	0.933	9.970	41.335		1.000				0.115	
18	18 13C-2,3,7,8-TCDD	2.38e5	0.78	NO	1.21	9.970	26.226	26.13	1.026	1.022	190.65	95.0	0.326	
19	19 13C-1,2,3,7,8-PeCDD	1.89e5	0.64	NO	0.996	9.970	30.724	30.67	1.202	1.200	183.54	91.5	0.271	
20	20 13C-1,2,3,4,7,8-HxCDD	1.62e5	1.30	NO	0.679	9.970	33.969	33.97	1.014	1.014	212.05	106	0.722	
21	21 13C-1,2,3,6,7,8-HxCDD	1.85e5	1.31	NO	0.850	9.970	34.080	34.08	1.017	1.017	193.06	96.2	0.577	
22	22 13C-1,2,3,7,8,9-HxCDD	1.80e5	1.30	NO	0.798	9.970	34.351	34.38	1.025	1.026	199.87	99.6	0.614	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.53e5	1.04	NO	0.697	9.970	37.821	37.85	1.129	1.130	195.18	97.3	0.612	
24	24 13C-OCDD	2.55e5	0.94	NO	0.579	9.970	40.850	41.12	1.219	1.227	390.56	97.3	0.558	
25	25 13C-2,3,7,8-TCDF	3.33e5	0.78	NO	1.13	9.970	25.305	25.33	0.990	0.991	175.65	87.6	0.352	
26	26 13C-1,2,3,7,8-PeCDF	2.98e5	1.63	NO	0.996	9.970	29.541	29.48	1.156	1.153	178.02	88.7	0.341	
27	27 13C-2,3,4,7,8-PeCDF	2.94e5	1.59	NO	0.969	9.970	30.443	30.39	1.191	1.189	180.54	90.0	0.351	
28	28 13C-1,2,3,4,7,8-HxCDF	2.26e5	0.51	NO	1.06	9.970	33.098	33.08	0.988	0.988	189.08	94.3	0.570	
29	29 13C-1,2,3,6,7,8-HxCDF	2.36e5	0.53	NO	1.18	9.970	33.232	33.20	0.992	0.991	178.17	88.8	0.513	
30	30 13C-2,3,4,6,7,8-HxCDF	2.23e5	0.52	NO	1.06	9.970	33.805	33.80	1.009	1.009	186.91	93.2	0.570	
31	31 13C-1,2,3,7,8,9-HxCDF	1.97e5	0.50	NO	0.879	9.970	34.706	34.75	1.036	1.037	199.10	99.3	0.686	

Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_14.qld

Last Altered: Thursday, June 04, 2020 11:25:52 Pacific Daylight Time

Printed: Thursday, June 04, 2020 11:26:42 Pacific Daylight Time

Name: 200603D1\_14, Date: 04-Jun-2020, Time: 00:27:11, ID: 2000945-08 PDI-146SC-A-07-08-200426 13.17, Description: PDI-146SC-A-07-08-200426

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.90e5	0.44	NO	0.893	9.970	36.415	36.58	1.087	1.092	188.29	93.9	0.518	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.38e5	0.44	NO	0.613	9.970	38.424	38.38	1.147	1.146	199.10	99.3	0.754	
34	34 13C-OCDF	3.00e5	0.87	NO	0.741	9.970	41.004	41.33	1.224	1.234	358.45	89.3	0.595	
35	35 37Cl-2,3,7,8-TCDD	9.60e4			1.18	9.970	26.223	26.14	1.026	1.023	78.746	98.1	0.119	
36	36 13C-1,2,3,4-TCDD	2.07e5	0.79	NO	1.00	9.970	25.480	25.56	1.000	1.000	200.60	100	0.393	
37	37 13C-1,2,3,4-TCDF	3.38e5	0.78	NO	1.00	9.970	24.020	24.11	1.000	1.000	200.60	100	0.396	
38	38 13C-1,2,3,4,6,9-HxCDF	2.26e5	0.51	NO	1.00	9.970	33.530	33.50	1.000	1.000	200.60	100	0.603	
39	39 Total Tetra-Dioxins				0.987	9.970	24.620		0.000				0.0583	
40	40 Total Penta-Dioxins				0.982	9.970	29.960		0.000				0.0471	
41	41 Total Hexa-Dioxins				1.04	9.970	33.635		0.000		0.12674		0.0652	0.127
42	42 Total Hepta-Dioxins				0.992	9.970	37.640		0.000		0.50139		0.120	0.501
43	43 Total Tetra-Furans				0.882	9.970	23.610		0.000		0.00000		0.0281	0.0428
44	44 1st Func. Penta-Furans				1.05	9.970	27.090		0.000				0.0114	
45	45 Total Penta-Furans				1.05	9.970	29.275		0.000				0.0253	
46	46 Total Hexa-Furans				1.11	9.970	33.555		0.000		0.00000		0.0364	0.0697
47	47 Total Hepta-Furans				1.13	9.970	37.835		0.000				0.0503	

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Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_14.qld

Last Altered: Thursday, June 04, 2020 11:25:52 Pacific Daylight Time

Printed: Thursday, June 04, 2020 11:26:42 Pacific Daylight Time

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Calibration: U:\VG7.PRO\CurveDB\ldb-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200603D1\_14, Date: 04-Jun-2020, Time: 00:27:11, ID: 2000945-08 PDI-146SC-A-07-08-200426 13.17, Description: PDI-146SC-A-07-08-200426

**Tetra-Dioxins**

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

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.47	1.672e3	1.300e3	6.526e1	4.981e1	1.31	NO	1.151e2	0.12674	0.12674	0.0652

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.00	2.152e3	1.519e3	1.076e2	1.180e2	0.91	NO	2.256e2	0.29744	0.29744	0.120
2	1,2,3,4,6,7,8-HpCDD	37.87	1.486e3	1.737e3	8.056e1	7.411e1	1.09	NO	1.547e2	0.20394	0.20394	0.120

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	25.58	9.910e2	8.000e2	3.706e1	3.540e1	1.05	YES	0.000e0	0.00000	0.042783	0.0281

**Penta-Furans function 1**

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

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_14.qld

Last Altered: Thursday, June 04, 2020 11:25:52 Pacific Daylight Time

Printed: Thursday, June 04, 2020 11:26:42 Pacific Daylight Time

Name: 200603D1\_14, Date: 04-Jun-2020, Time: 00:27:11, ID: 2000945-08 PDI-146SC-A-07-08-200426 13.17, Description: PDI-146SC-A-07-08-200426

**Penta-Furans**

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

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8,9-HxCDF	34.76	9.870e2	8.510e2	4.015e1	4.449e1	0.90	YES	8.464e1	0.00000	0.069729	0.0486

**Hepta-Furans**

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



Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_14.qld

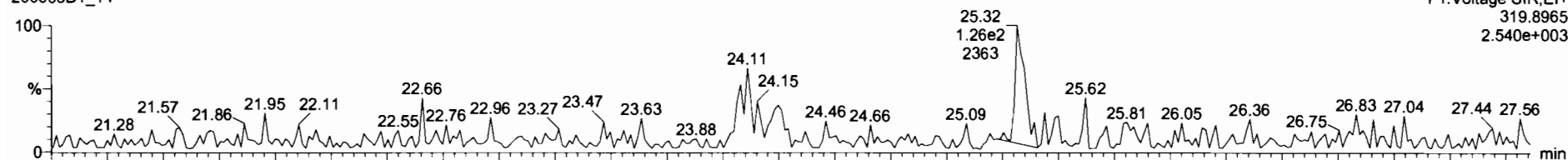
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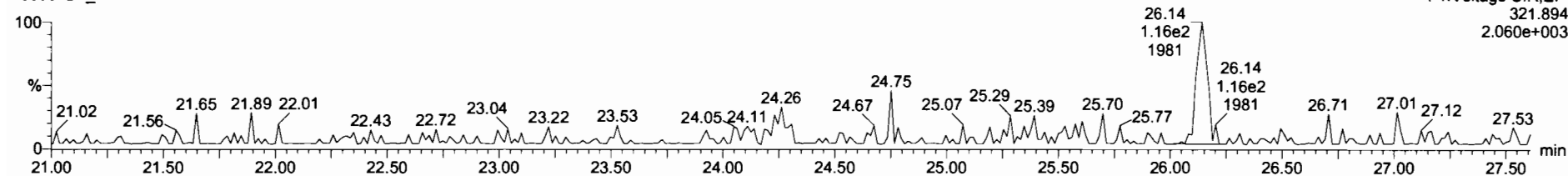
Name: 200603D1\_14, Date: 04-Jun-2020, Time: 00:27:11, ID: 2000945-08 PDI-146SC-A-07-08-200426 13.17, Description: PDI-146SC-A-07-08-200426

2,3,7,8-TCDD

200603D1\_14

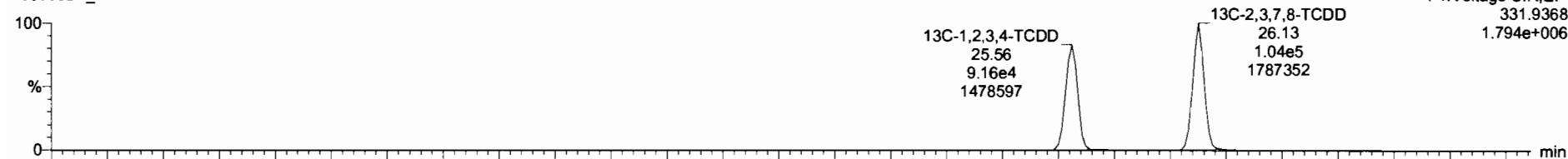


200603D1\_14

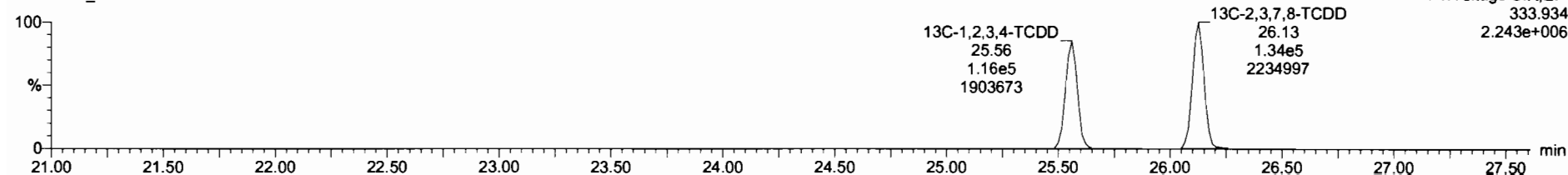


13C-2,3,7,8-TCDD

200603D1\_14



200603D1\_14



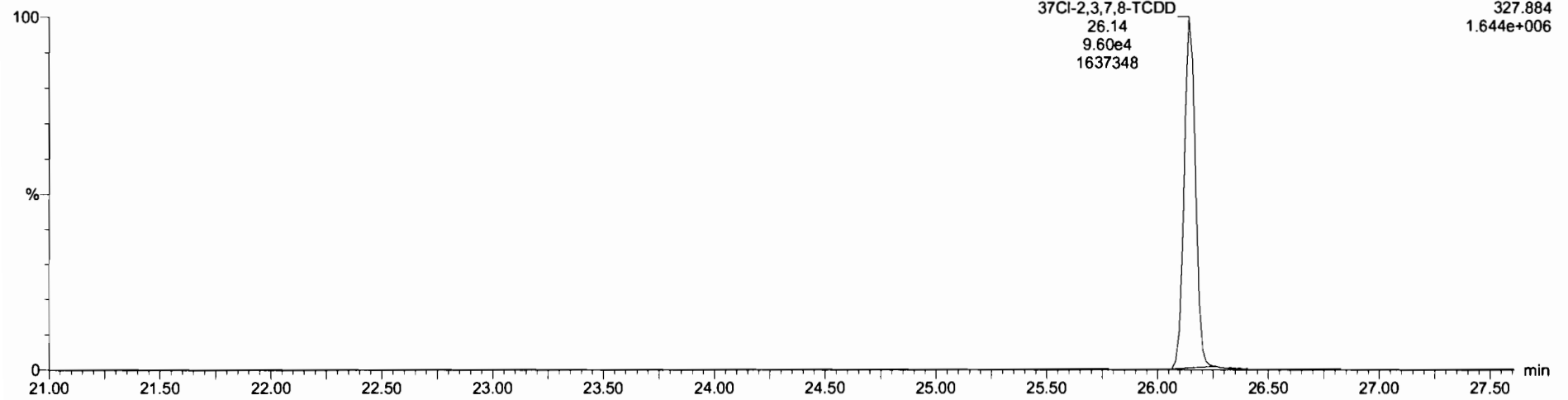
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Printed: Thursday, June 04, 2020 10:05:18 Pacific Daylight Time

Name: 200603D1\_14, Date: 04-Jun-2020, Time: 00:27:11, ID: 2000945-08 PDI-146SC-A-07-08-200426 13.17, Description: PDI-146SC-A-07-08-200426

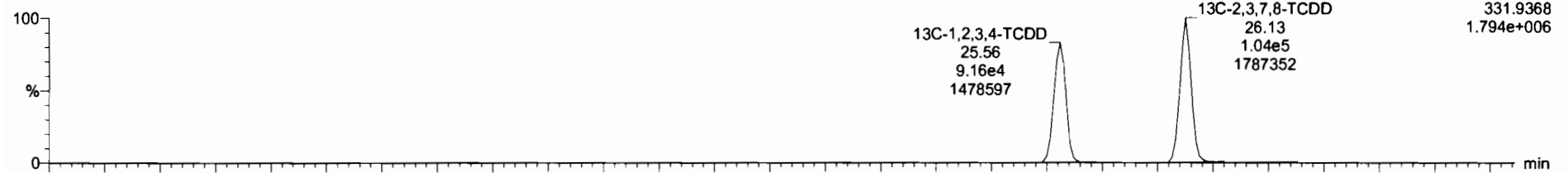
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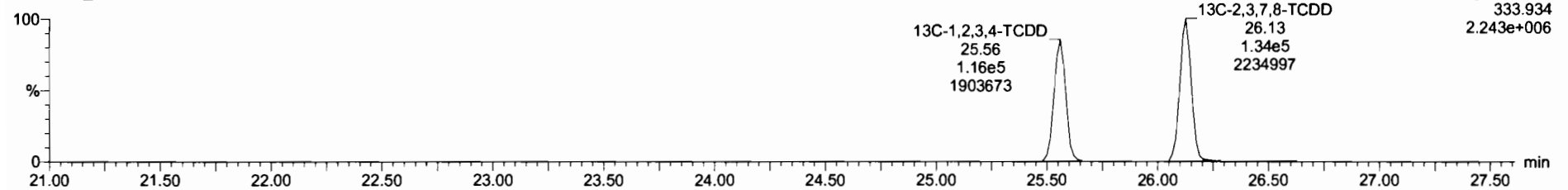


**13C-1,2,3,4-TCDD**

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200603D1\_14



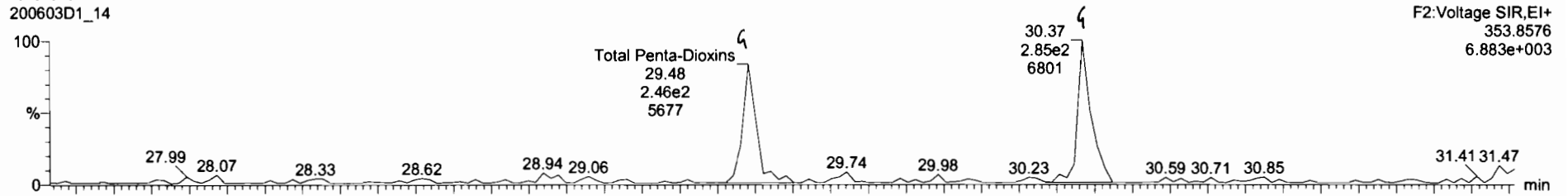
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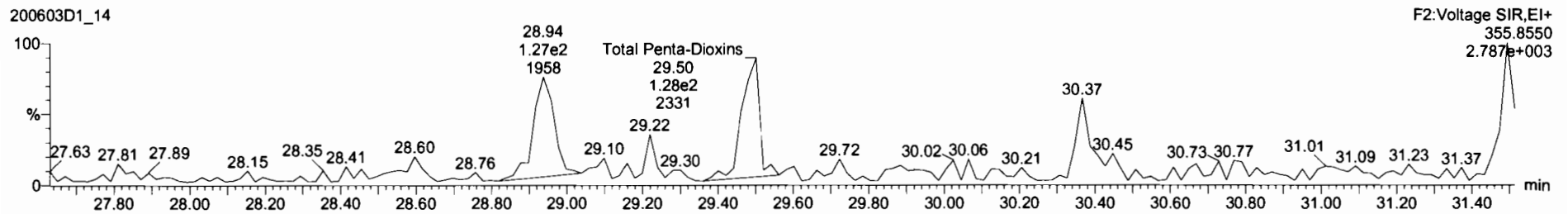
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1,2,3,7,8-PeCDD

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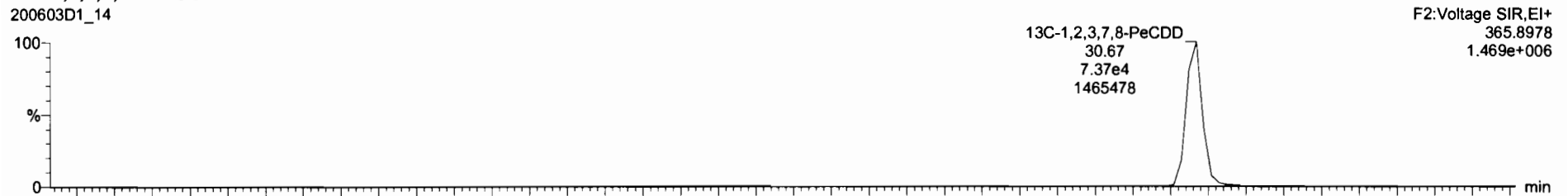


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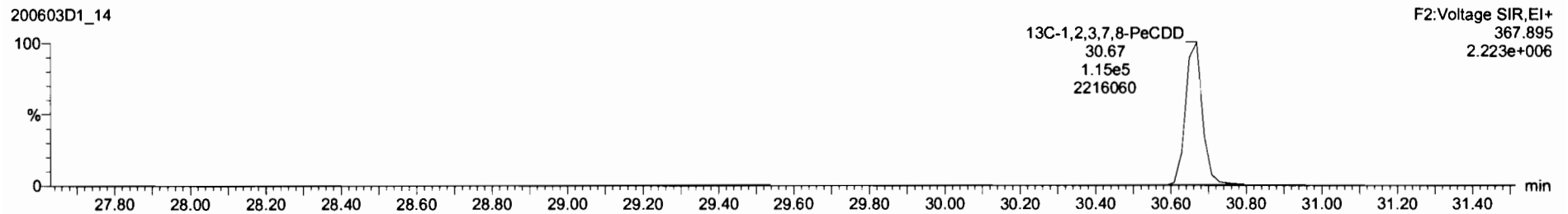


13C-1,2,3,7,8-PeCDD

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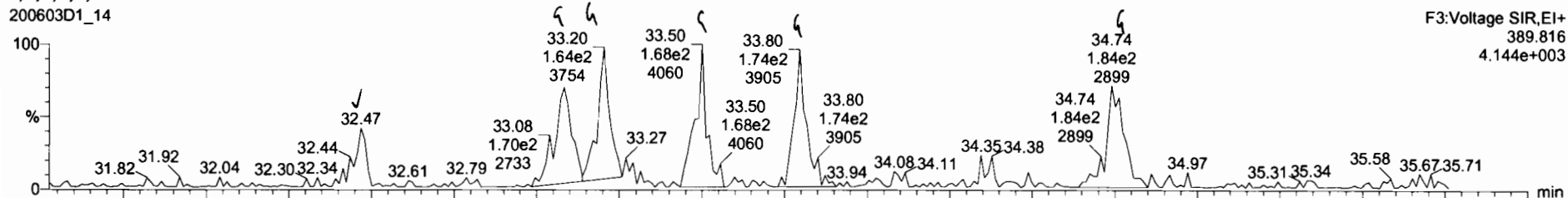
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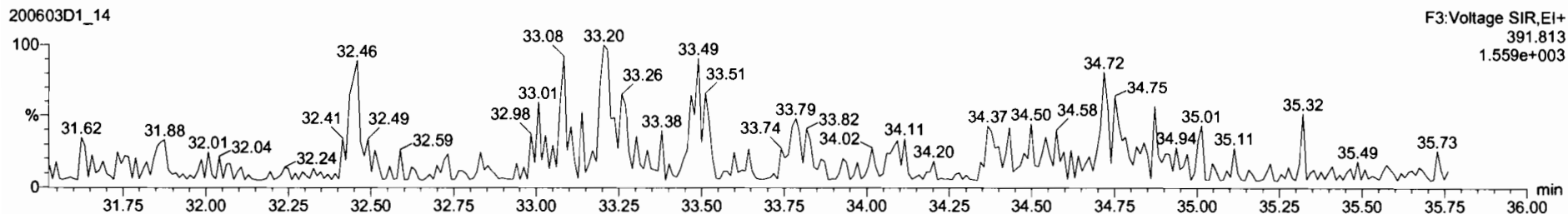
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1,2,3,4,7,8-HxCDD

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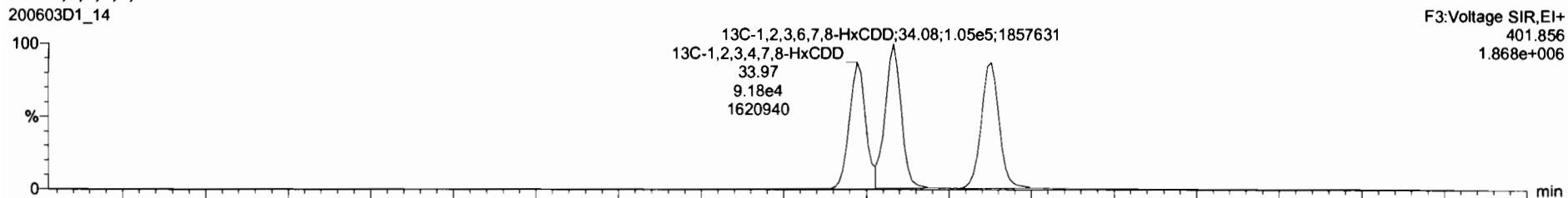


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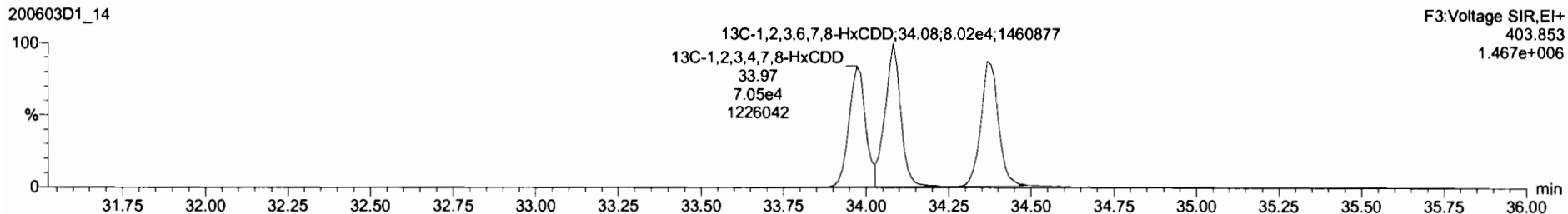


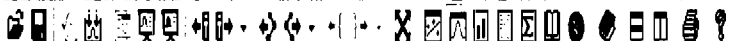
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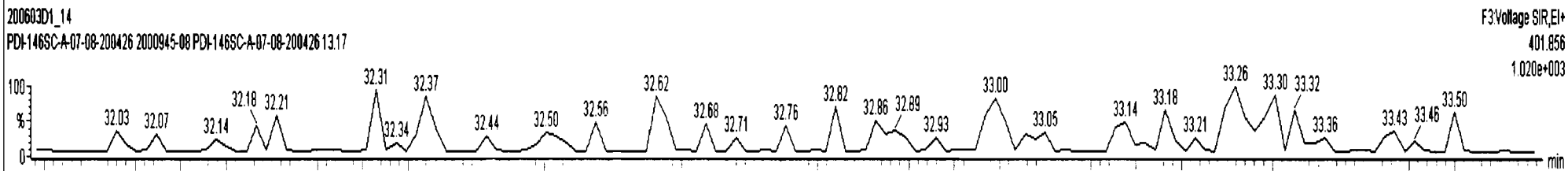
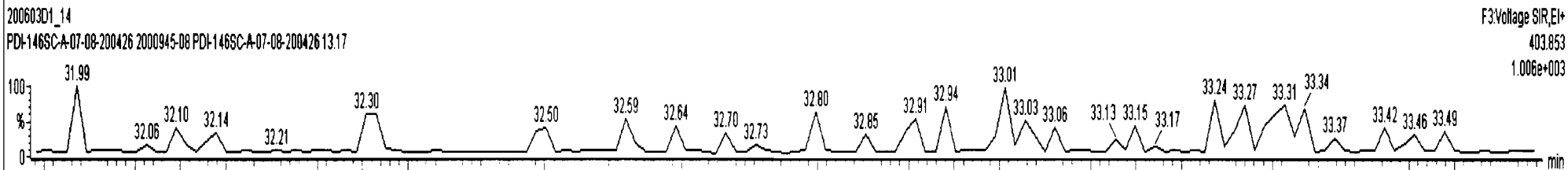
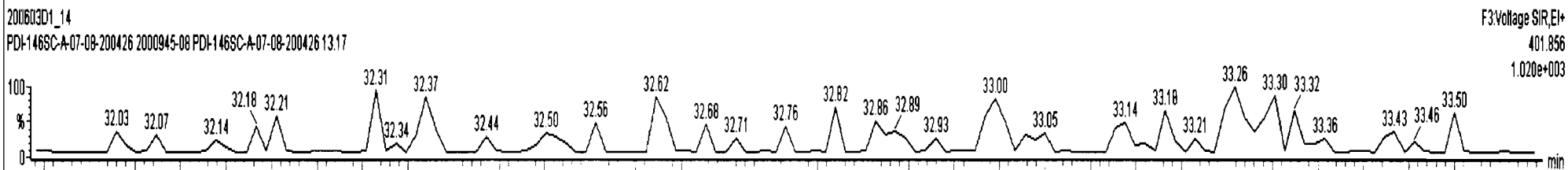
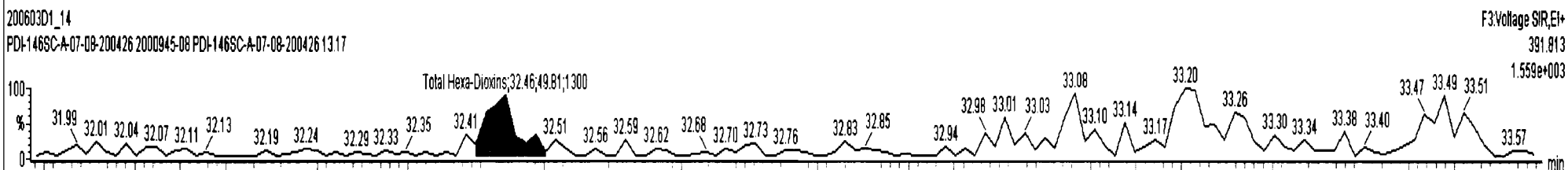
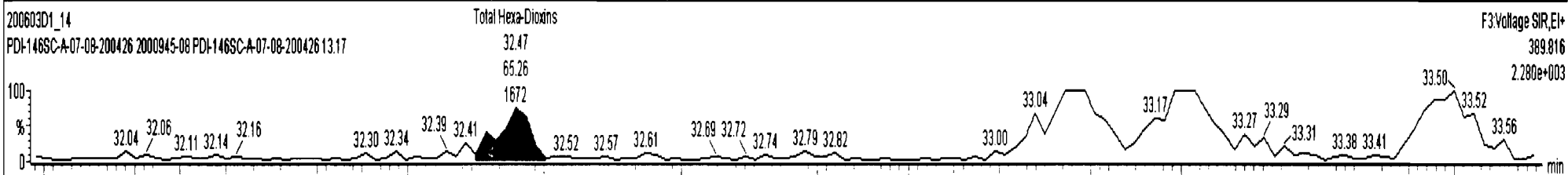


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200603D1\_14 - 2000945-08-PDI-146SC-A-07-08-200426 13.17 - PDI-146SC-A-07-08-200426



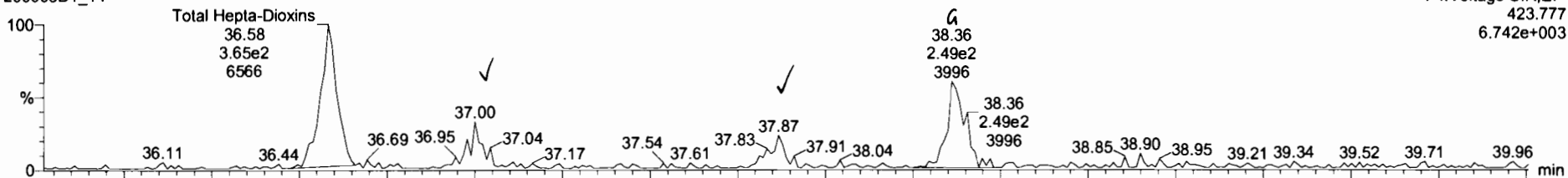
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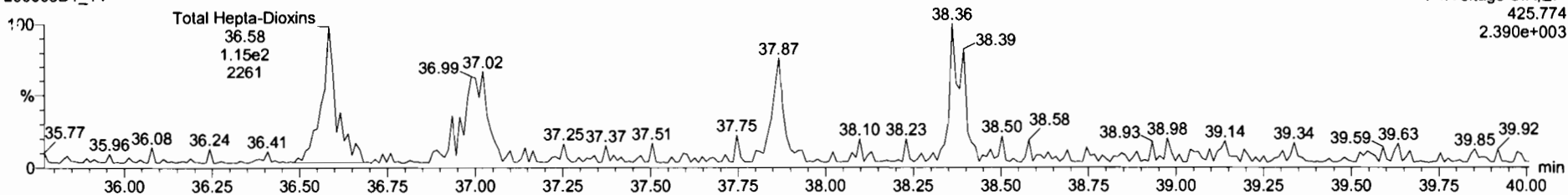
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1,2,3,4,6,7,8-HpCDD

200603D1\_14

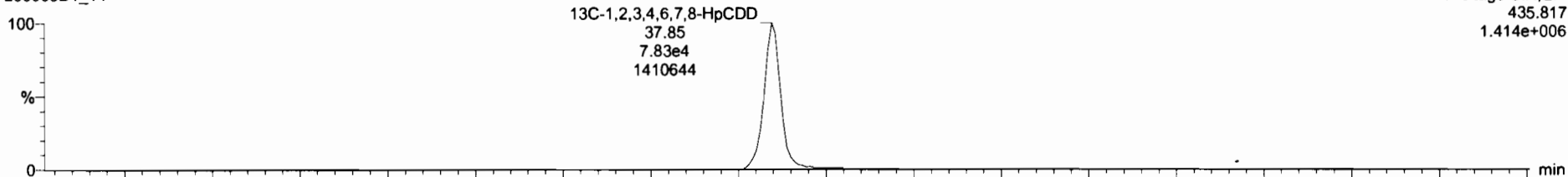


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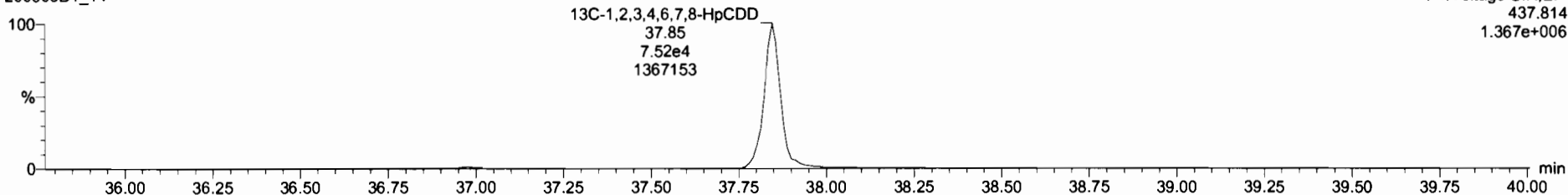


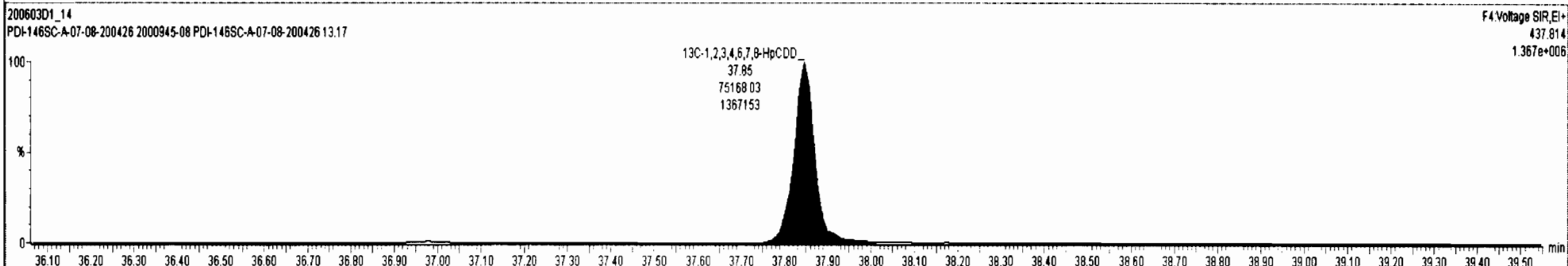
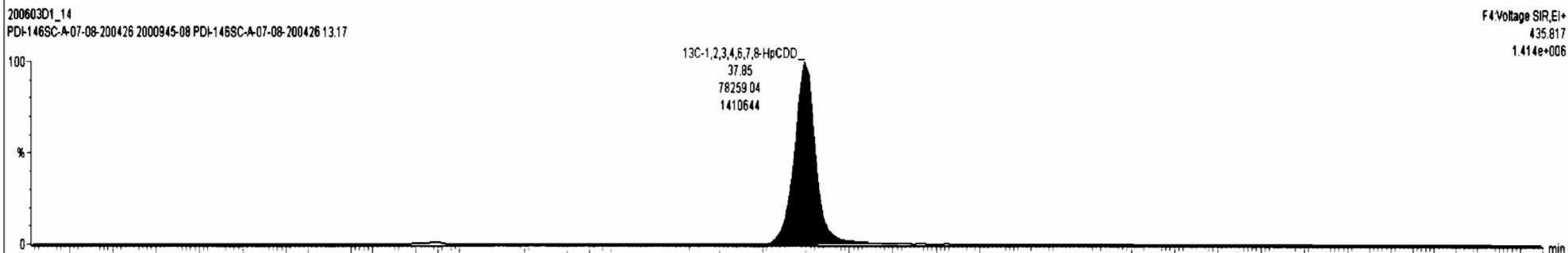
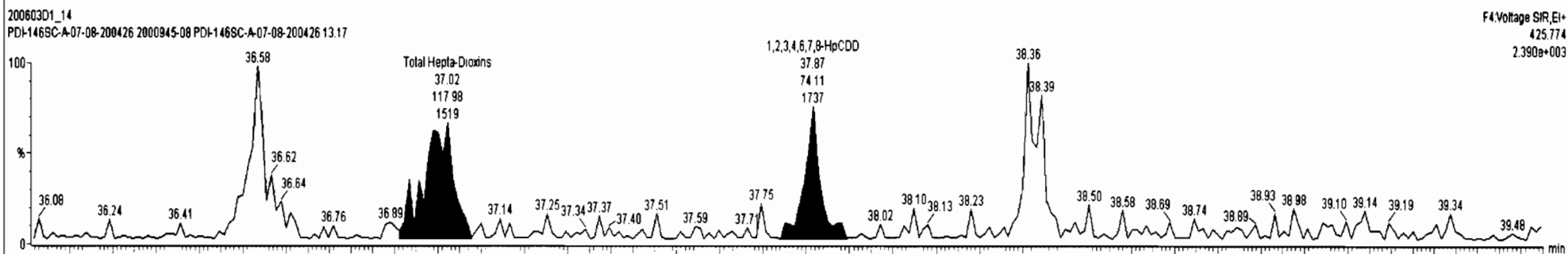
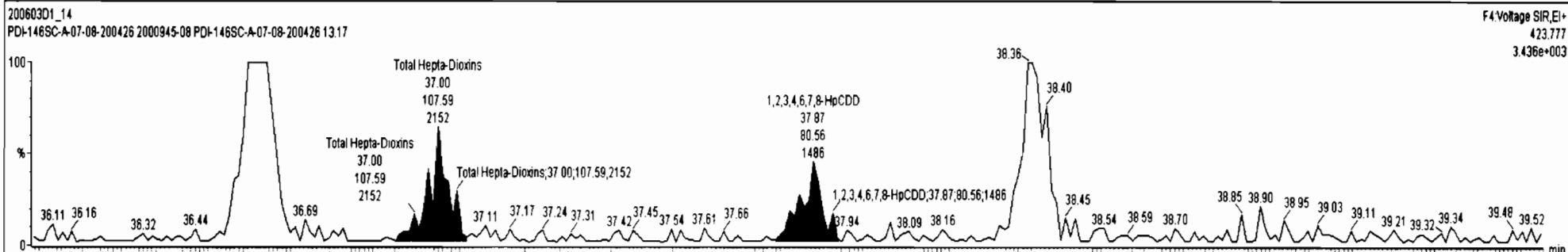
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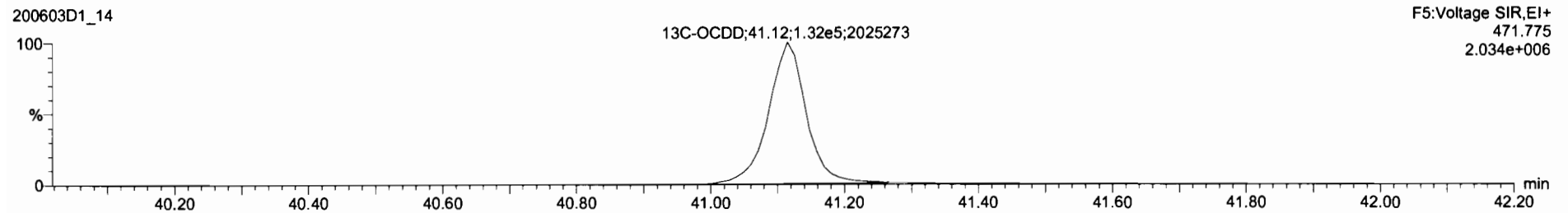
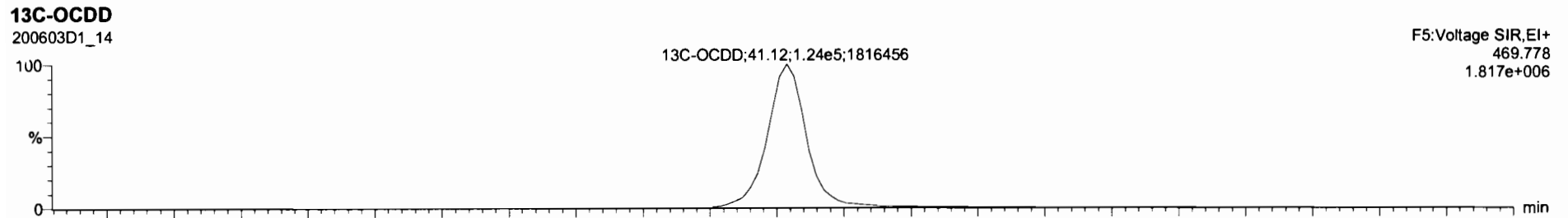
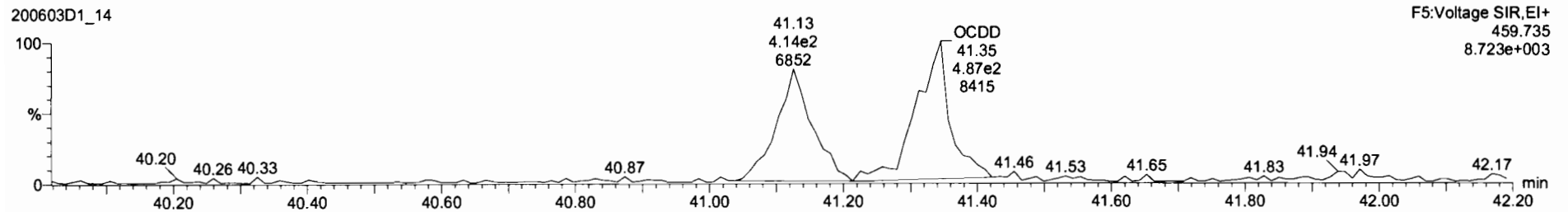
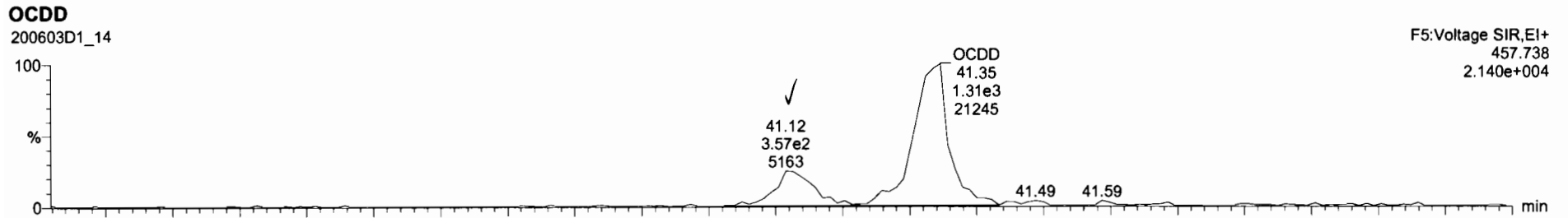




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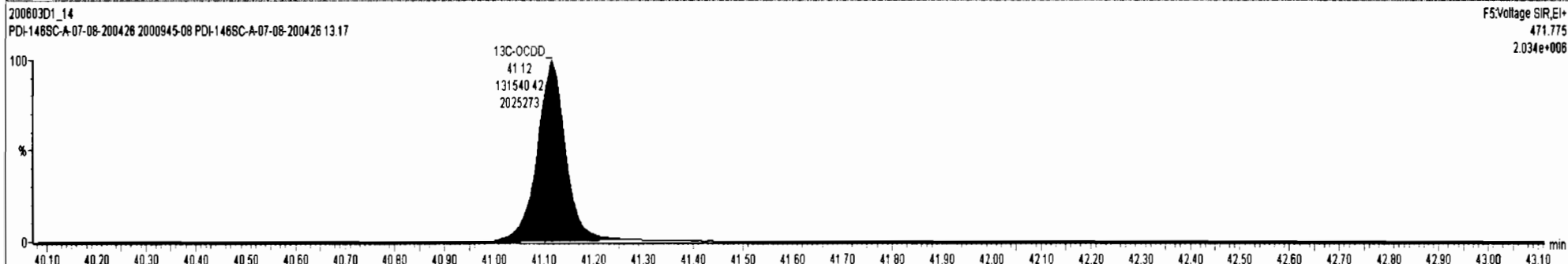
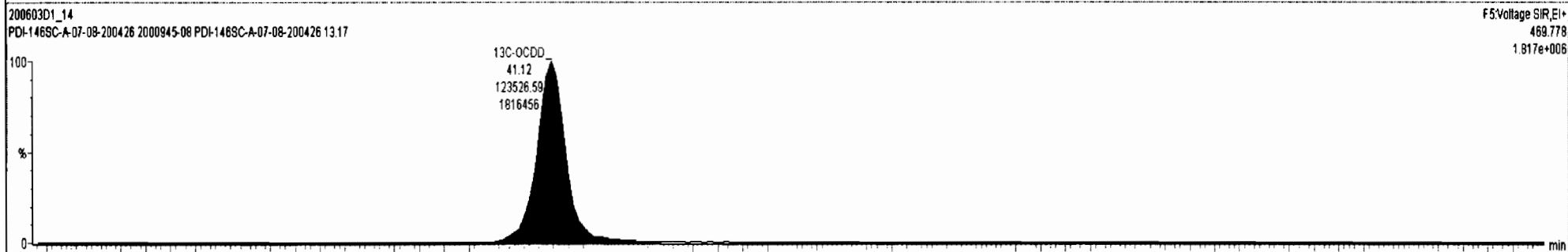
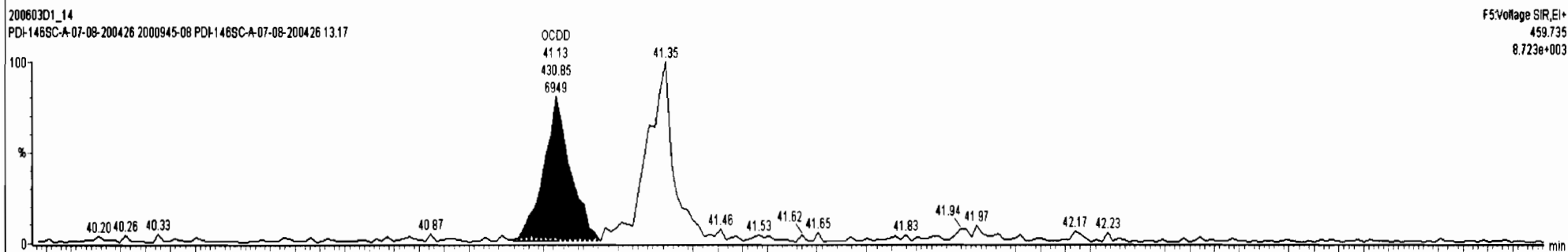
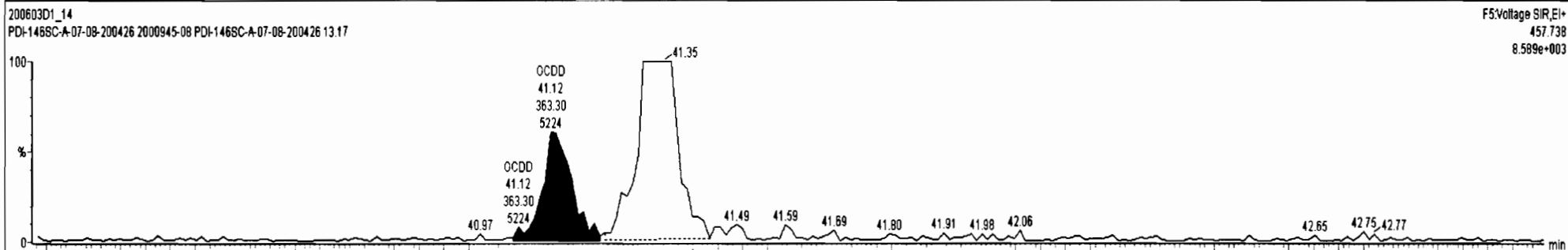
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200603D1\_14 2000945-08 PDI-146SC-A-07-08-200426 13.17



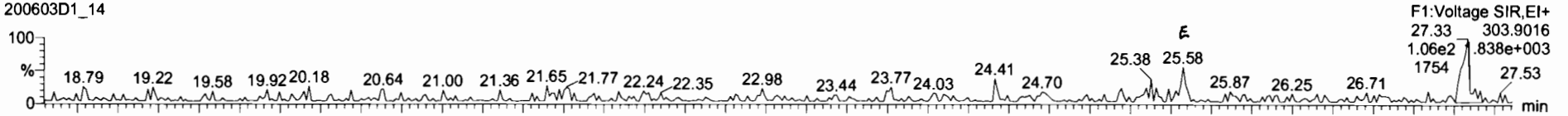
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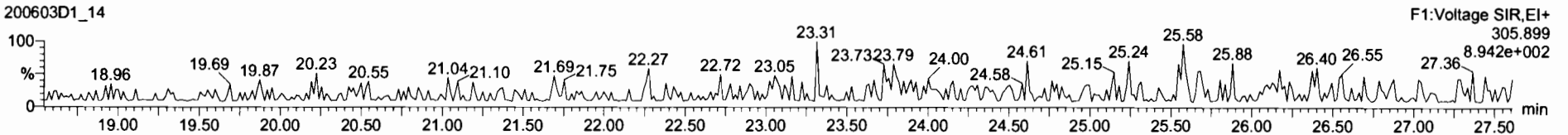
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**2,3,7,8-TCDF**

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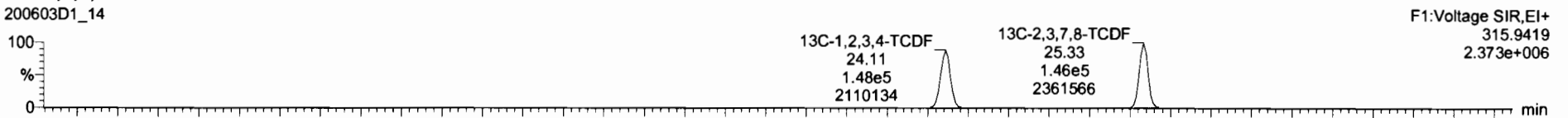


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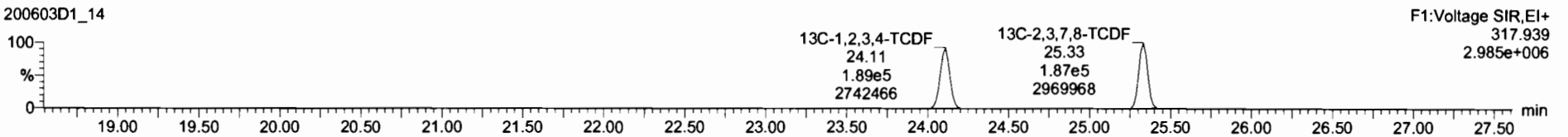


**13C-2,3,7,8-TCDF**

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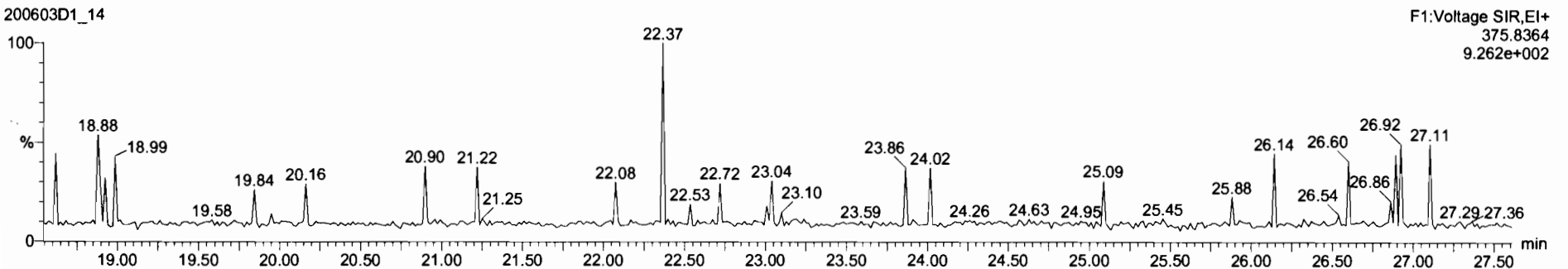


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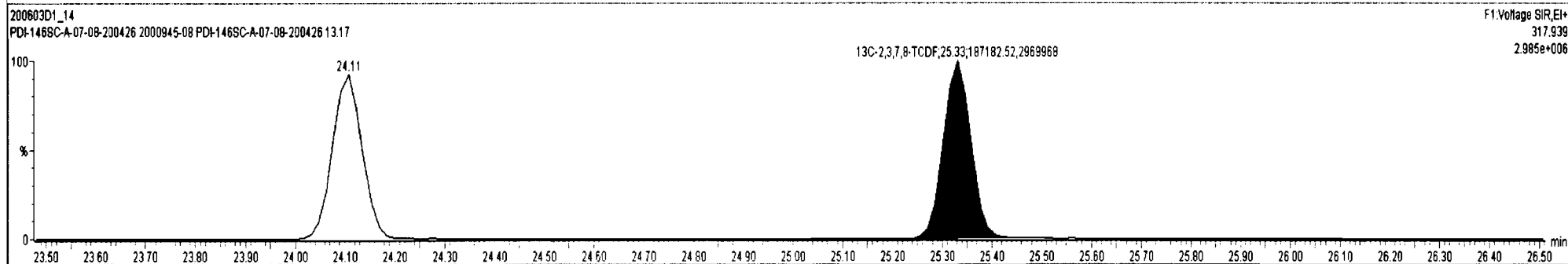
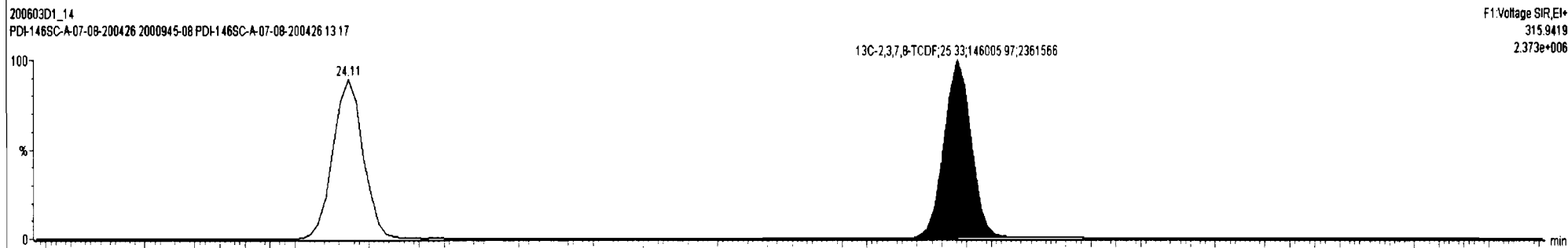
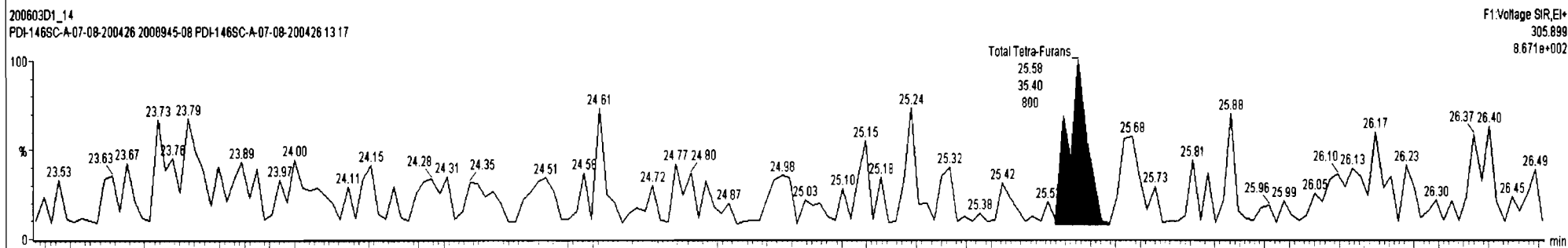
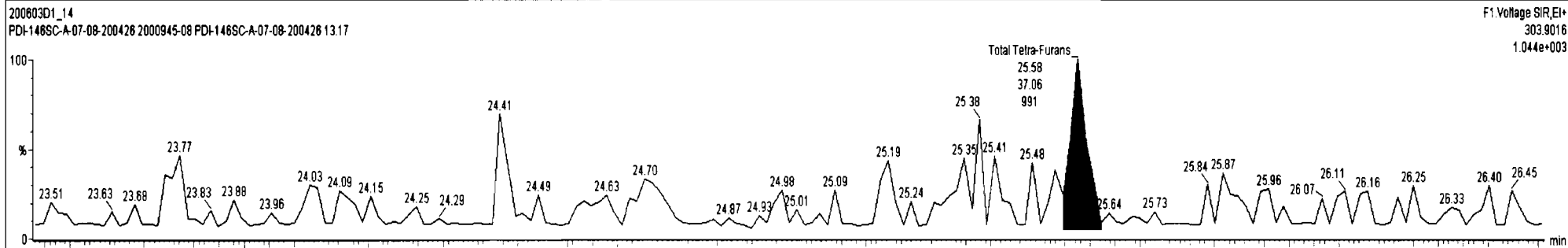


**DPE1**

200603D1\_14



200603D1\_14: 2000945-08-PDI-146SC-A-07-08-200426 13:17 PDI-146SC-A-07-08-200426



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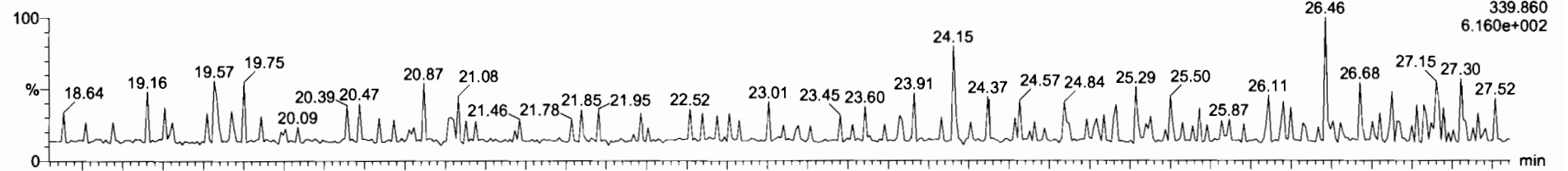
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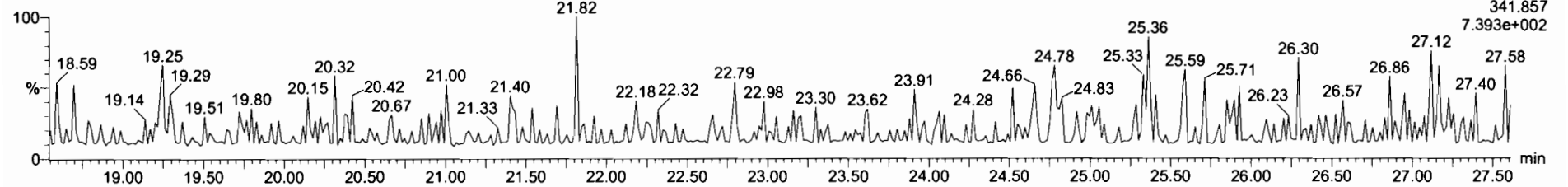
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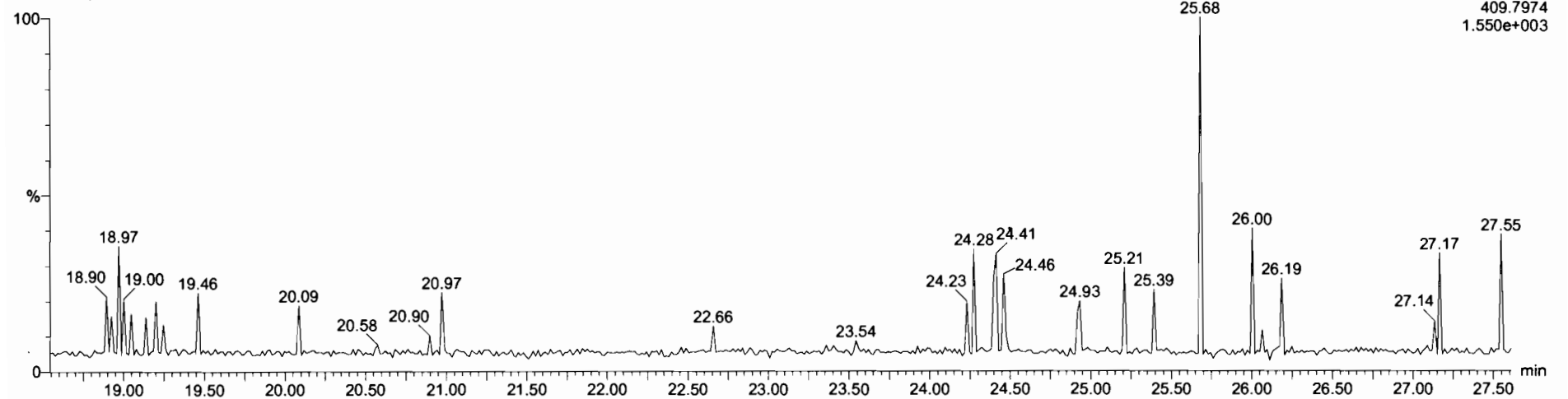


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DPE6

200603D1\_14



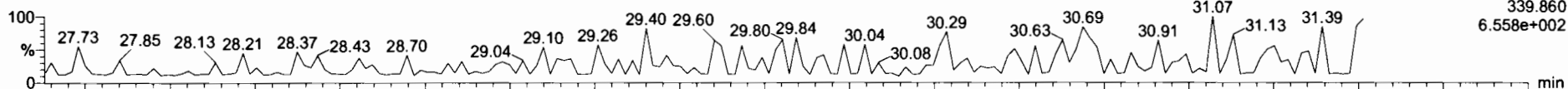
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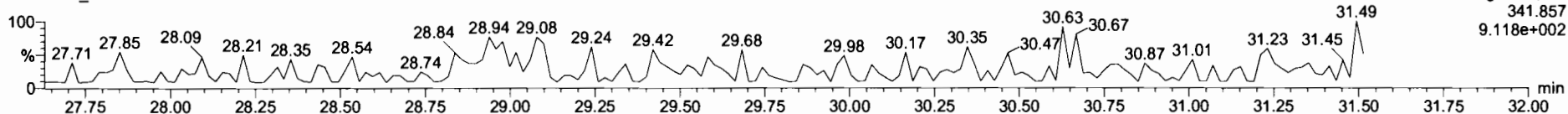
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**1,2,3,7,8-PeCDF**

200603D1\_14



200603D1\_14

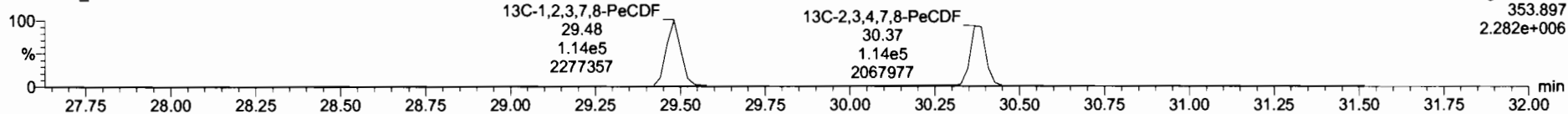


**13C-1,2,3,7,8-PeCDF**

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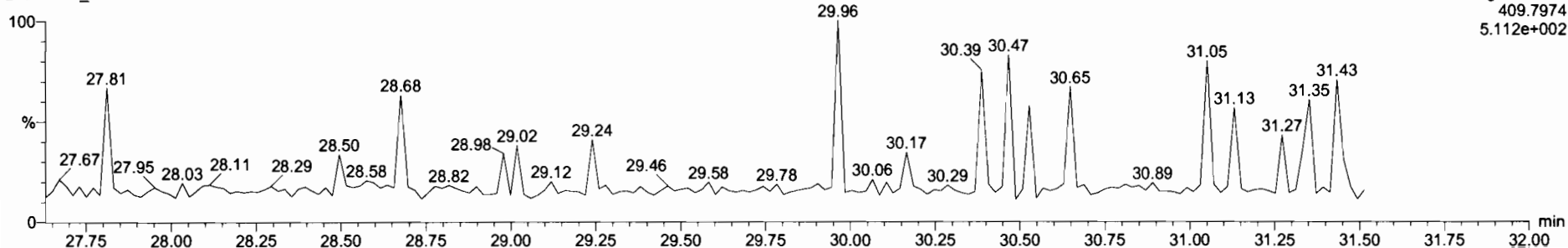


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**DPE2**

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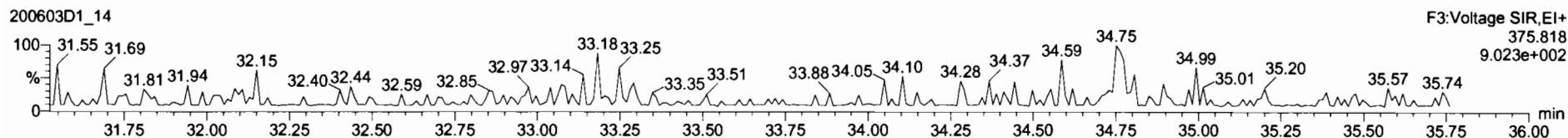
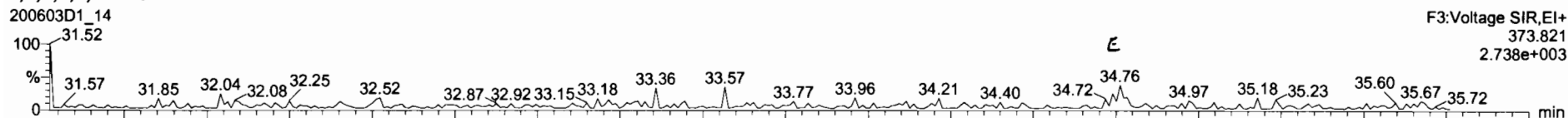


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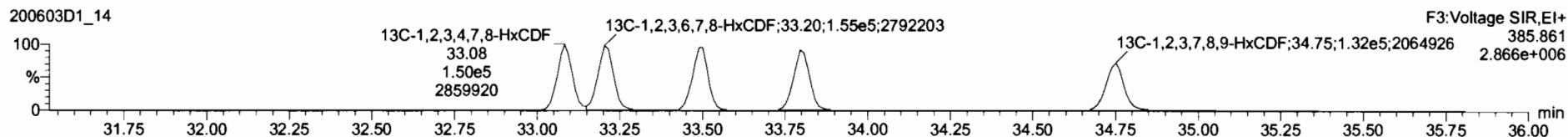
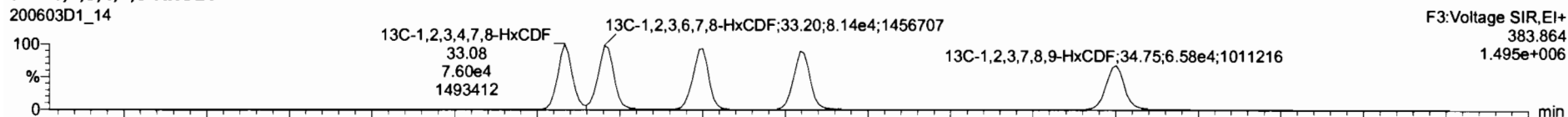
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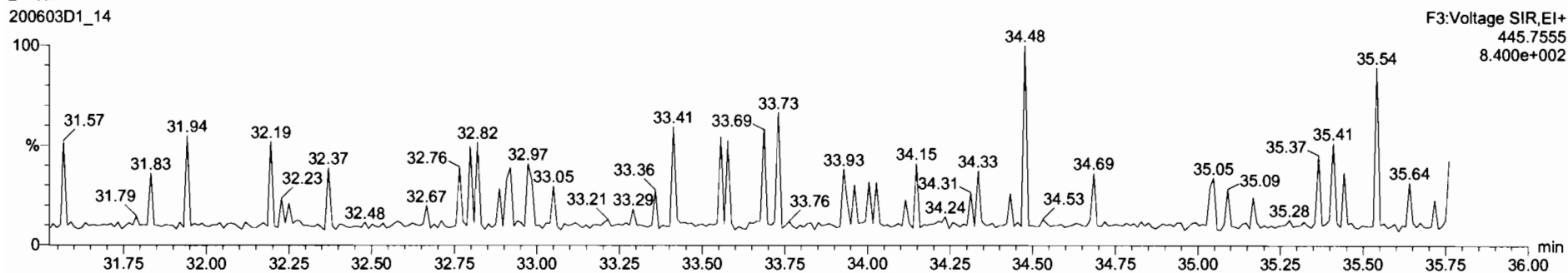
**1,2,3,4,7,8-HxCDF**



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

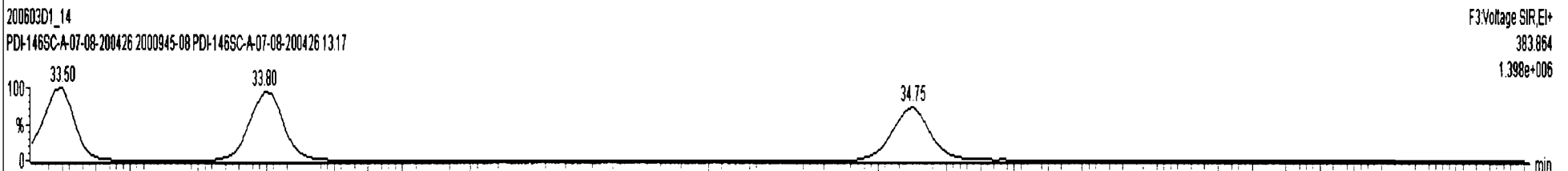
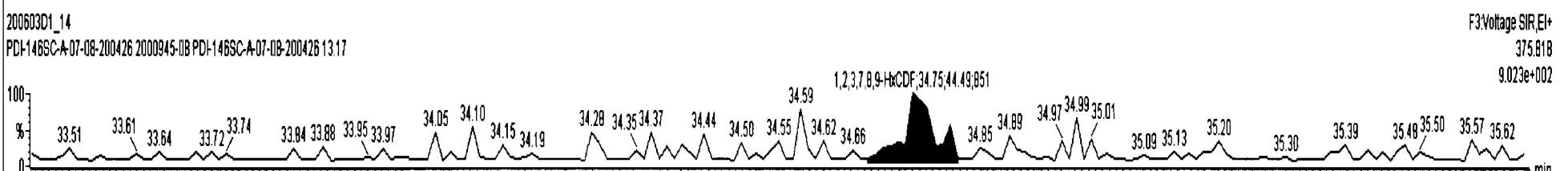
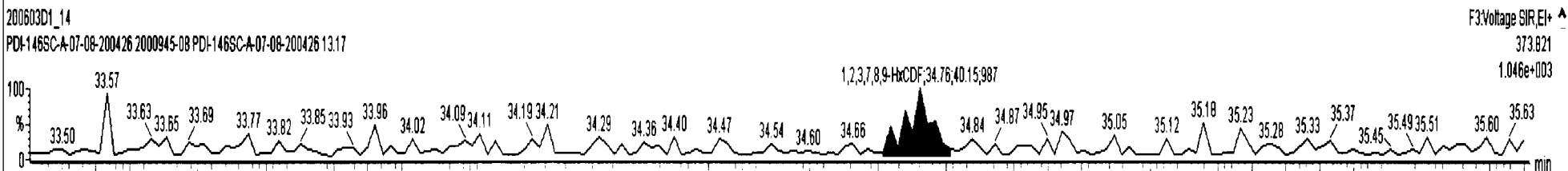


**DPE3**





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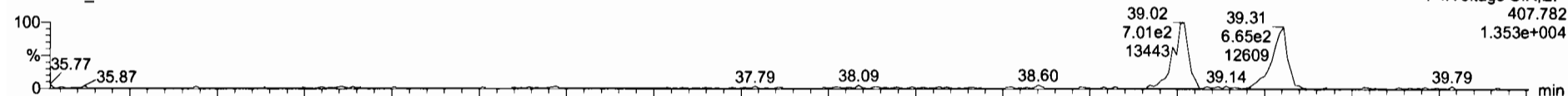
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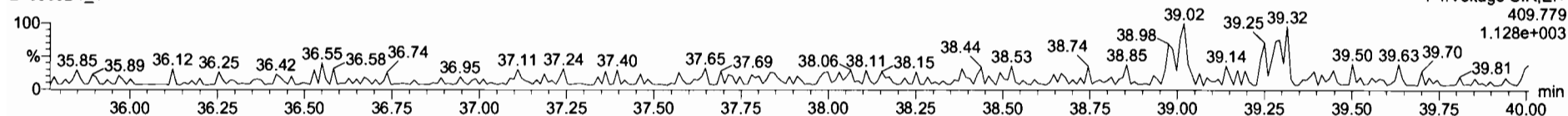
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1,2,3,4,6,7,8-HpCDF

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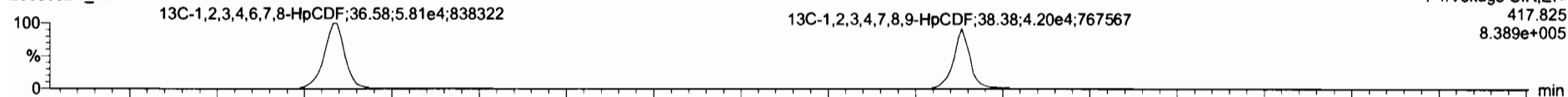


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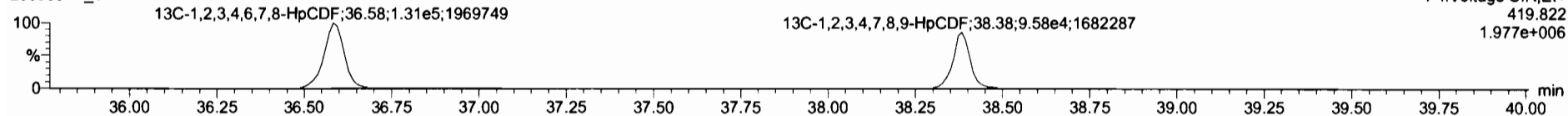


13C-1,2,3,4,6,7,8-HpCDF

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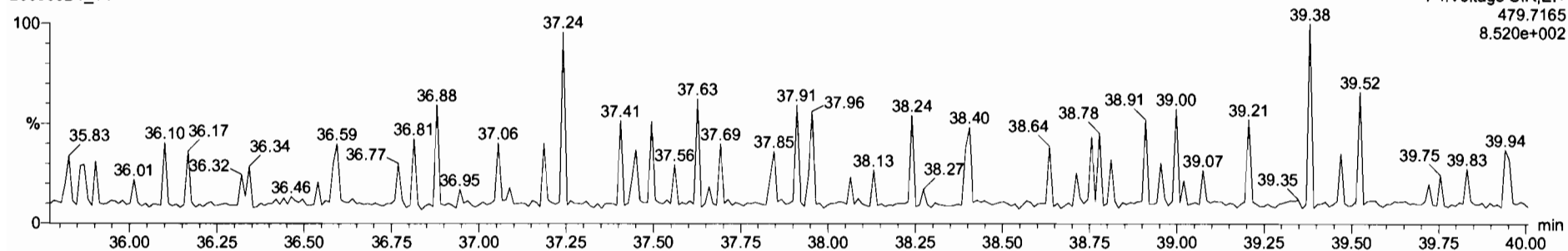


200603D1\_14



DPE4

200603D1\_14

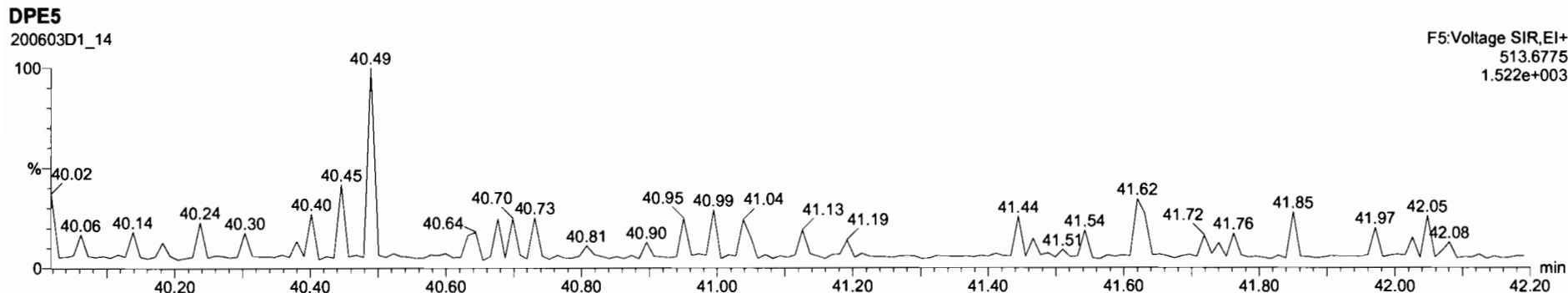
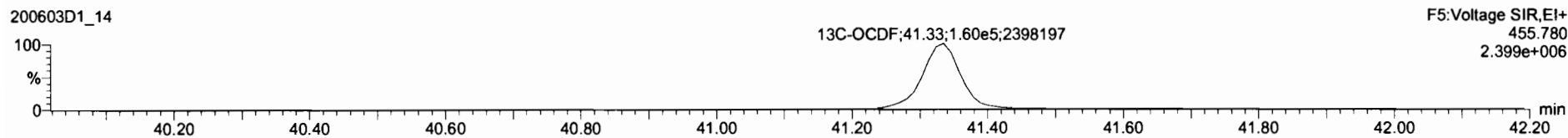
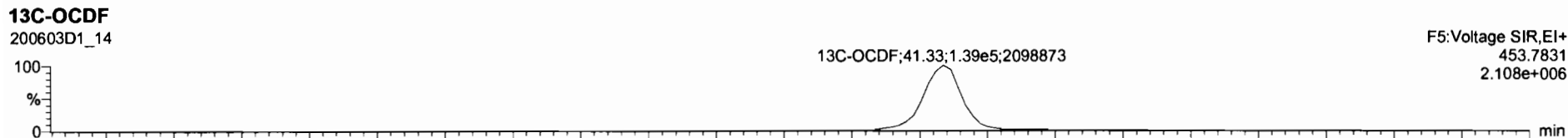
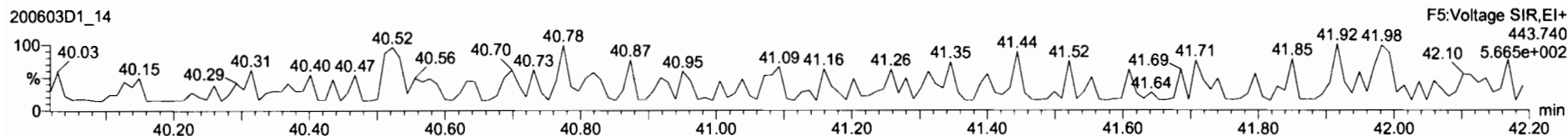
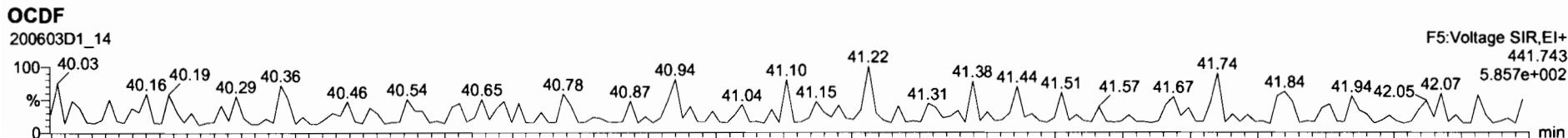




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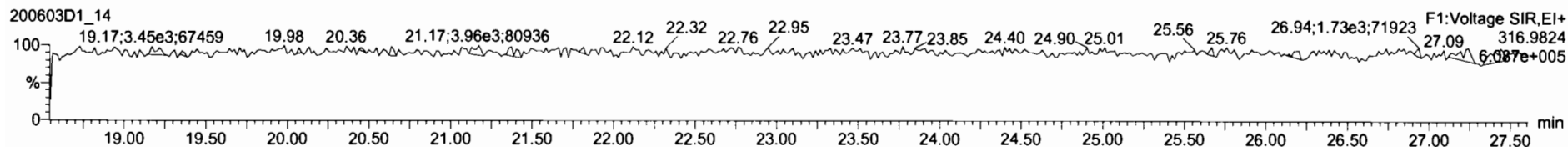


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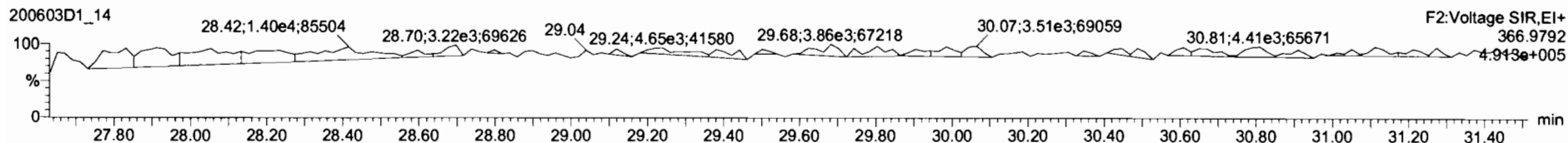
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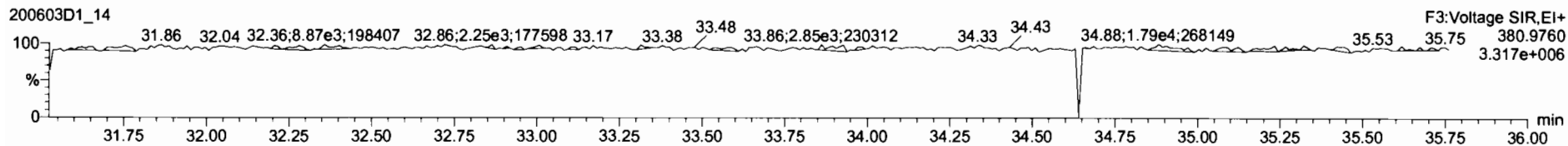
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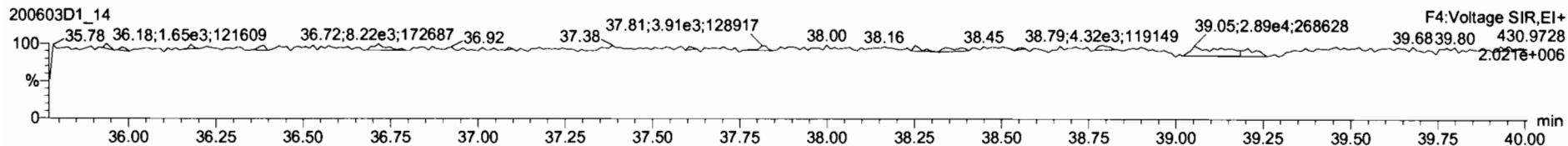
**PFK2**



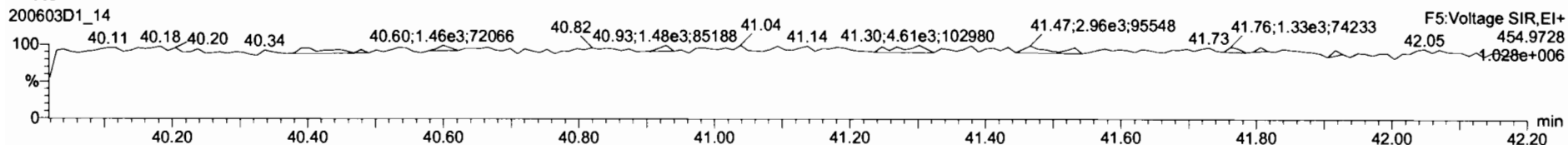
**PFK3**



**PFK4**



**PFK5**



## **CONFIRMATION**

Dataset: U:\VG7.PRO\Results\200609D1\200609D1\_5.qld

Last Altered: Tuesday, June 09, 2020 17:00:13 Pacific Daylight Time  
Printed: Tuesday, June 09, 2020 17:01:02 Pacific Daylight Time

*DB 6/9/20 C706/10/2020*

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: 200609D1\_5, Date: 09-Jun-2020, Time: 15:33:55, ID: 2000945-01RE1 PDI-146SC-A-00-01-200426 14.29, Description: PDI-146SC-A-00-01-200426

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDF	5.46e2	0.71	NO	0.982	10.057	17.666	17.68	1.000	1.002	7.1566		1.92	7.16
2	13C-2,3,7,8-TCDF	1.55e4	0.75	NO	1.08	10.057	17.701	17.65	1.133	1.135	164.54	82.7	5.74	
3	13C-1,2,3,4-TCDF	1.72e4	0.75	NO	1.00	10.057	15.660	15.54	1.000	1.000	198.86	100	6.22	

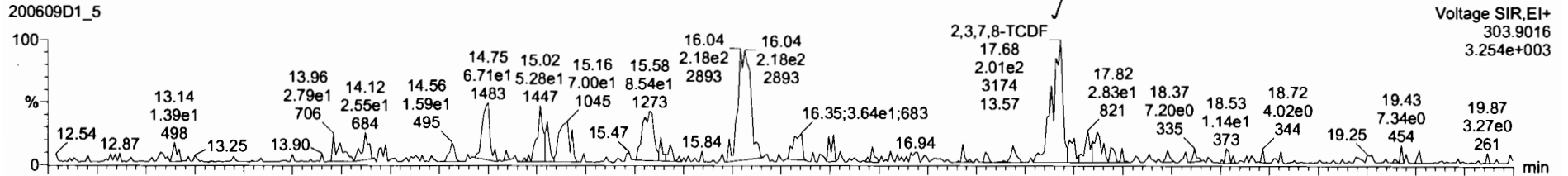
Dataset: U:\VG7.PRO\Results\200609D1\200609D1\_5.qld

Last Altered: Tuesday, June 09, 2020 16:58:38 Pacific Daylight Time  
Printed: Tuesday, June 09, 2020 16:59:53 Pacific Daylight Time

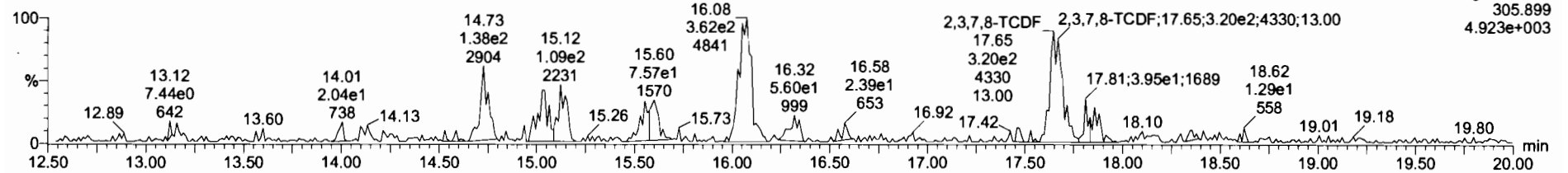
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200609D1\_5, Date: 09-Jun-2020, Time: 15:33:55, ID: 2000945-01RE1 PDI-146SC-A-00-01-200426 14.29, Description: PDI-146SC-A-00-01-200426

2,3,7,8-TCDF



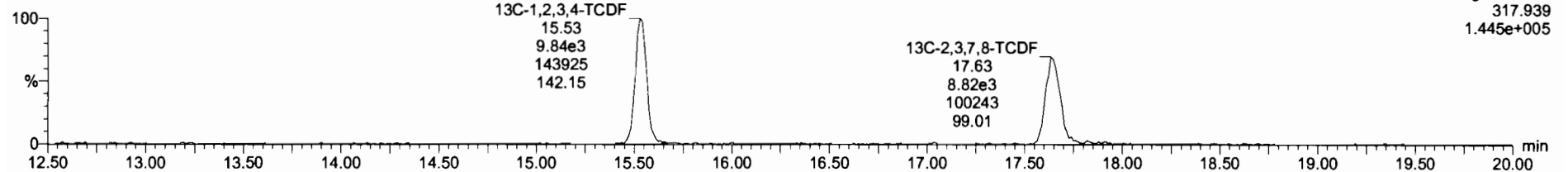
200609D1\_5

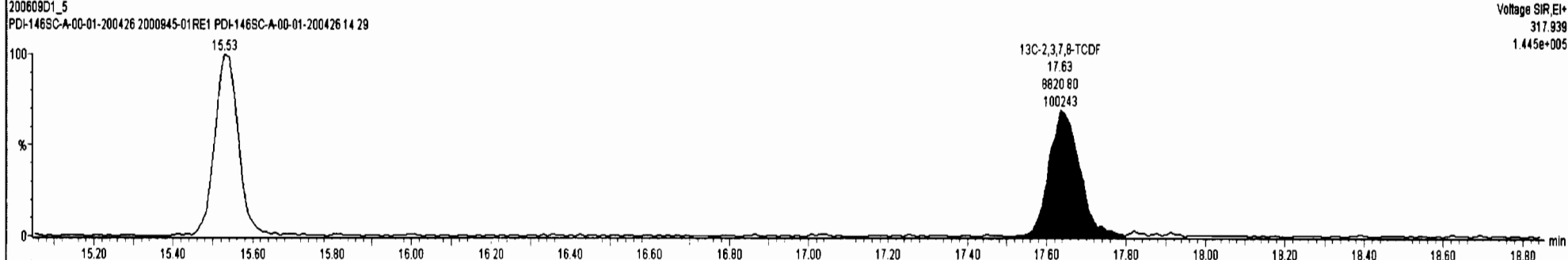
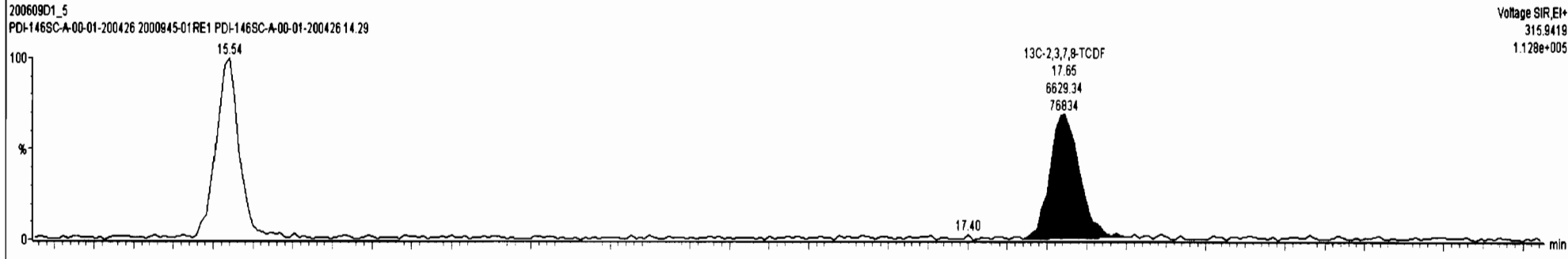
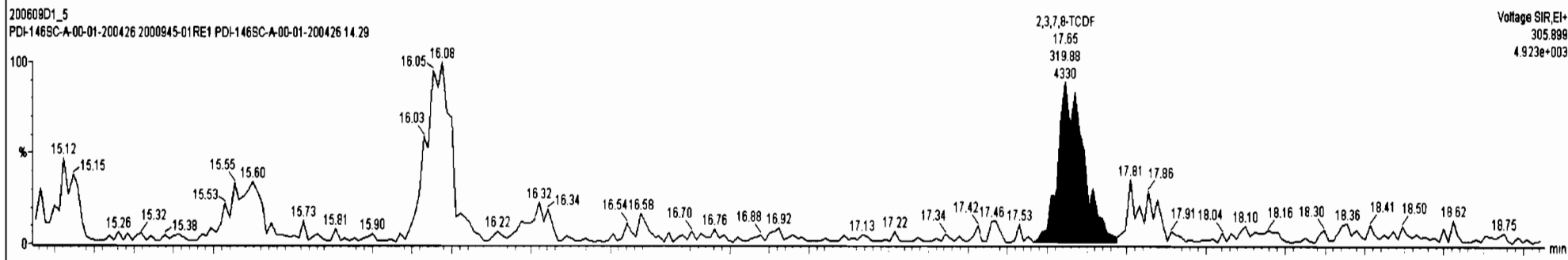
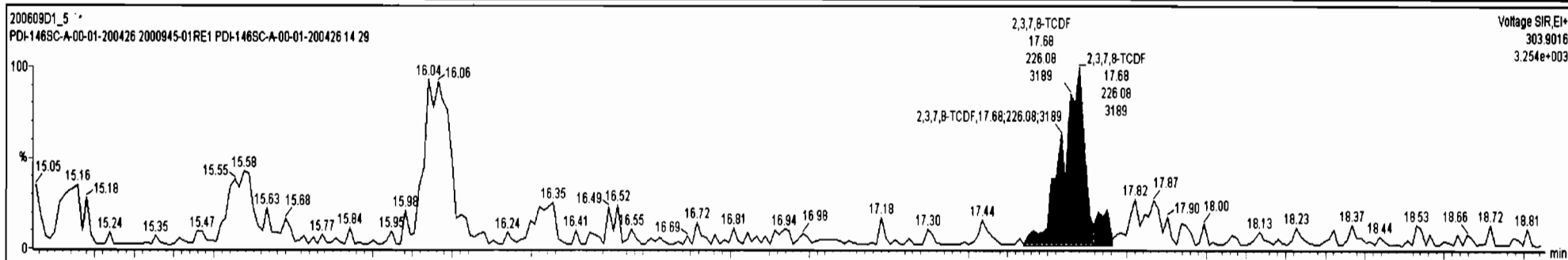


13C-2,3,7,8-TCDF



200609D1\_5





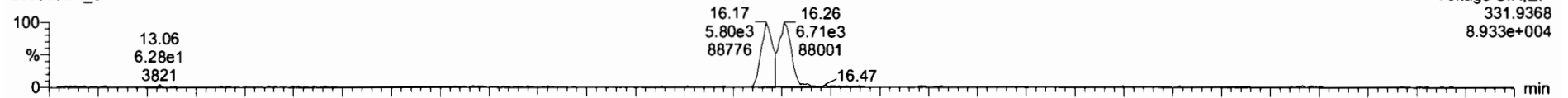
Dataset: U:\VG7.PRO\Results\200609D1\200609D1\_5.qld

Last Altered: Tuesday, June 09, 2020 16:58:38 Pacific Daylight Time  
Printed: Tuesday, June 09, 2020 16:59:53 Pacific Daylight Time

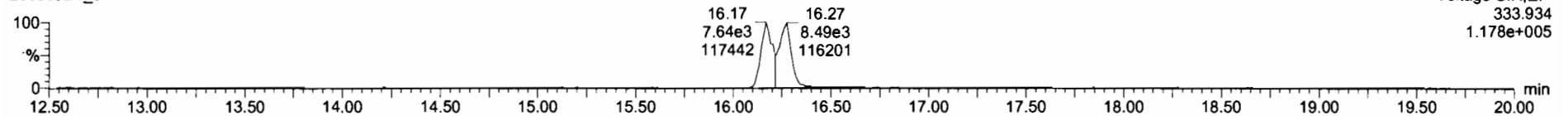
Name: 200609D1\_5, Date: 09-Jun-2020, Time: 15:33:55, ID: 2000945-01RE1 PDI-146SC-A-00-01-200426 14.29, Description: PDI-146SC-A-00-01-200426

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

200609D1\_5

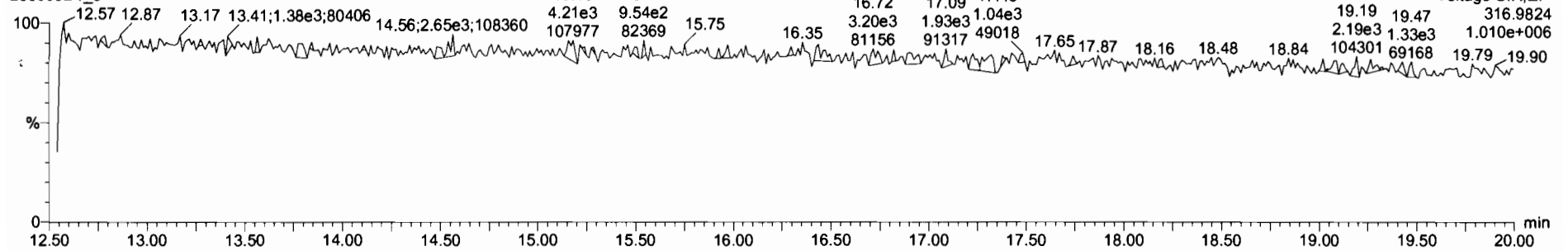


200609D1\_5



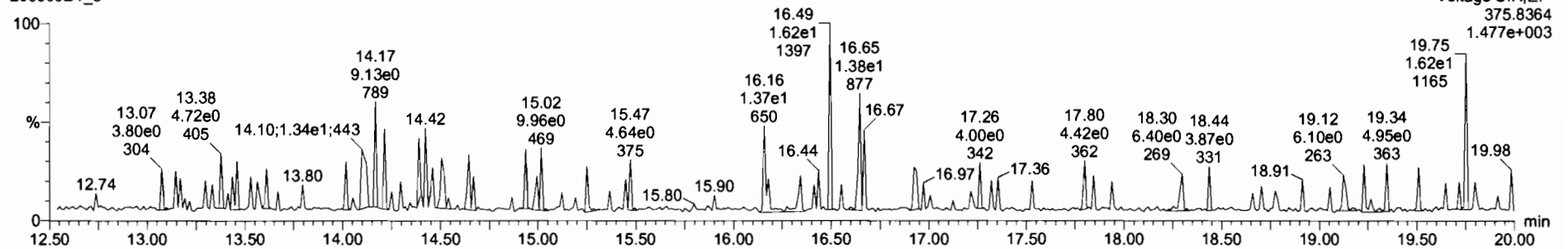
PFK1

200609D1\_5



DPE1

200609D1\_5



Dataset: U:\VG7.PRO\Results\200609D1\200609D1\_6.qld

Last Altered: Tuesday, June 09, 2020 17:03:12 Pacific Daylight Time  
Printed: Tuesday, June 09, 2020 17:04:22 Pacific Daylight Time

*DB 6/9/20 C706/11/2020*

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: 200609D1\_6, Date: 09-Jun-2020, Time: 16:05:37, ID: 2000945-02RE1 PDI-146SC-A-01-02-200426 12.02, Description: PDI-146SC-A-01-02-200426

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDF	3.64e2	0.81	NO	0.982	10.580	17.677	17.65	1.000	0.999	6.2526		1.92	6.25
2	13C-2,3,7,8-TCDF	1.12e4	0.75	NO	1.08	10.580	17.701	17.66	1.133	1.136	123.74	65.5	5.80	
3	13C-1,2,3,4-TCDF	1.58e4	0.77	NO	1.00	10.580	15.660	15.54	1.000	1.000	189.03	100	6.28	



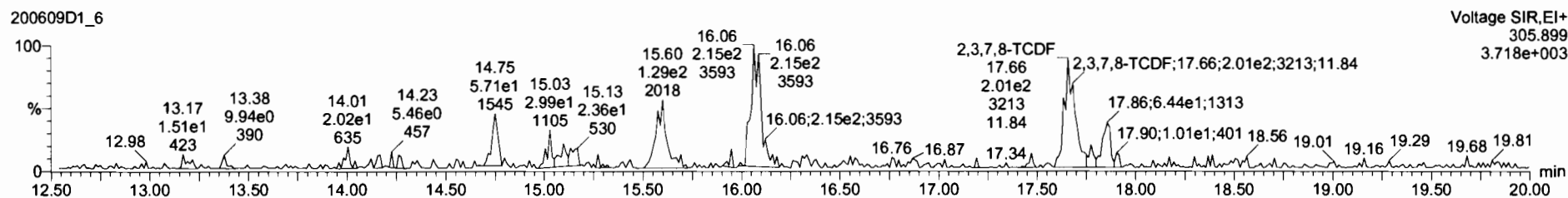
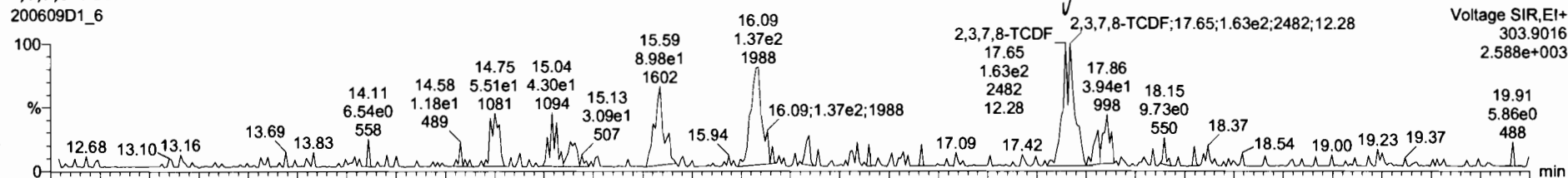
Dataset: U:\VG7.PRO\Results\200609D1\200609D1\_6.qld

Last Altered: Tuesday, June 09, 2020 17:03:12 Pacific Daylight Time  
Printed: Tuesday, June 09, 2020 17:04:43 Pacific Daylight Time

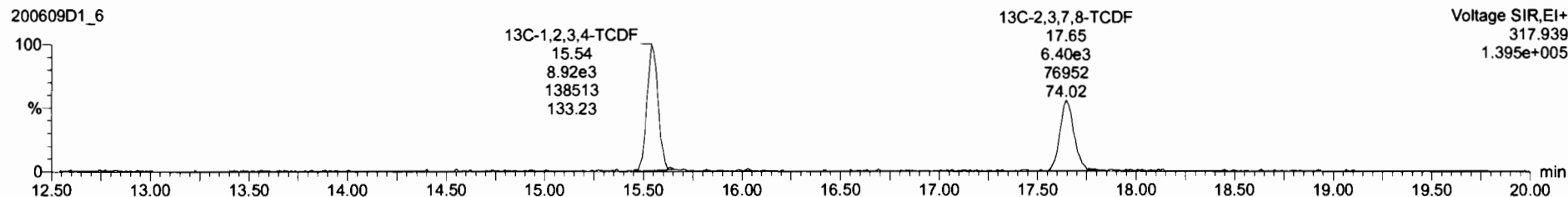
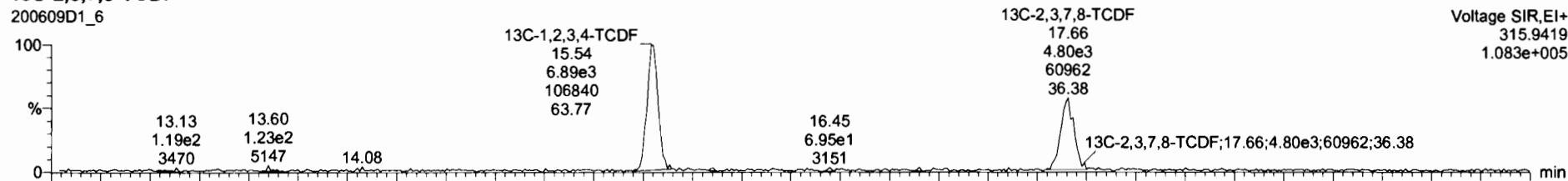
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19  
Calibration: U:\VG7.PRO\CurveDB\ldb-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200609D1\_6, Date: 09-Jun-2020, Time: 16:05:37, ID: 2000945-02RE1 PDI-146SC-A-01-02-200426 12.02, Description: PDI-146SC-A-01-02-200426

2,3,7,8-TCDF



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



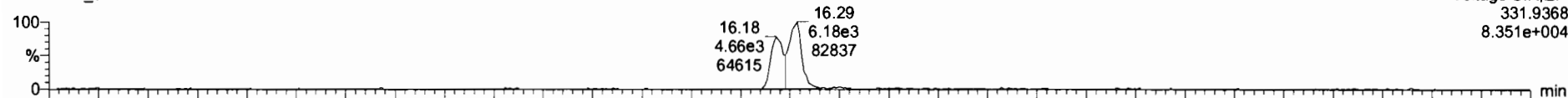
Dataset: U:\VG7.PRO\Results\200609D1\200609D1\_6.qld

Last Altered: Tuesday, June 09, 2020 17:03:12 Pacific Daylight Time  
Printed: Tuesday, June 09, 2020 17:04:43 Pacific Daylight Time

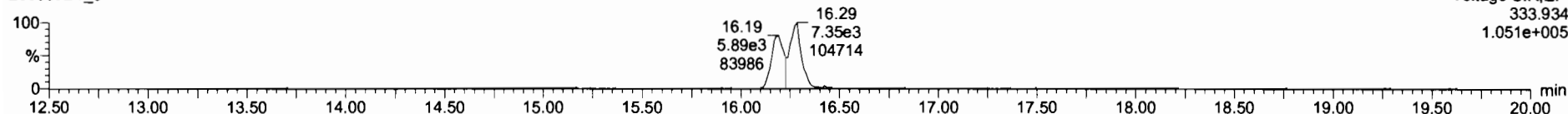
Name: 200609D1\_6, Date: 09-Jun-2020, Time: 16:05:37, ID: 2000945-02RE1 PDI-146SC-A-01-02-200426 12.02, Description: PDI-146SC-A-01-02-200426

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

200609D1\_6

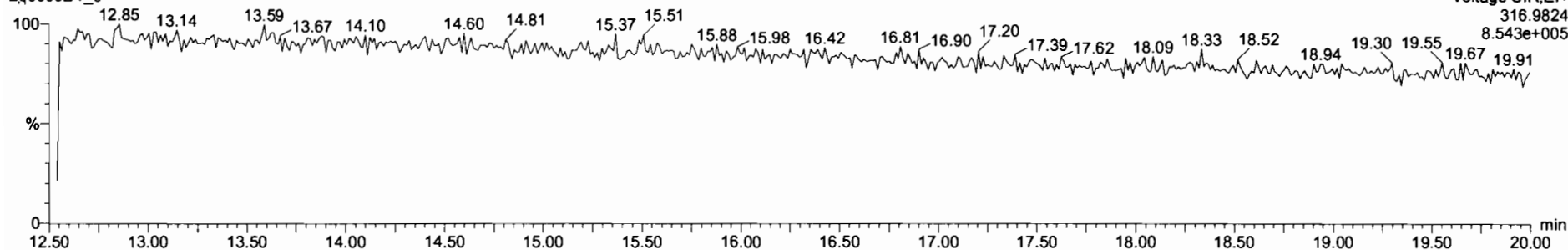


200609D1\_6



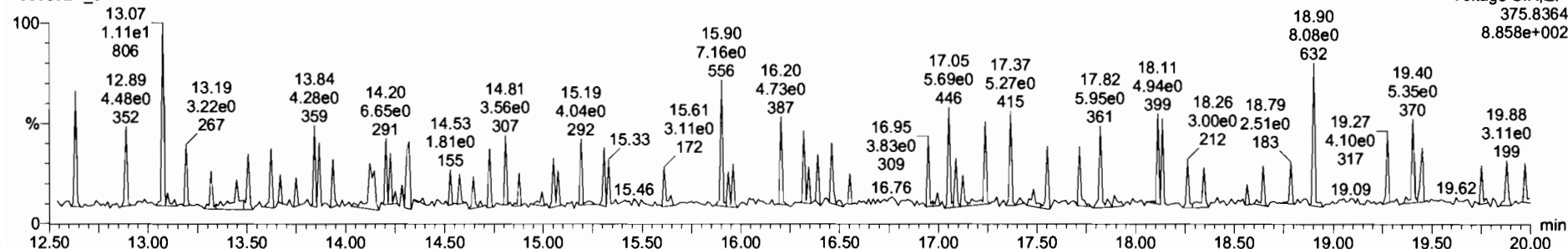
PFK1

200609D1\_6



DPE1

200609D1\_6



Dataset: U:\VG7.PRO\Results\200609D1\200609D1\_7.qld

Last Altered: Thursday, June 11, 2020 10:34:49 Pacific Daylight Time

Printed: Thursday, June 11, 2020 10:35:38 Pacific Daylight Time

DB 6/11/20 C-06/11/2020

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: 200609D1\_7, Date: 09-Jun-2020, Time: 16:37:19, ID: B0D0306-DUP1RE1 Duplicate, Description: Duplicate

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	CL	Ratio
1	2,3,7,8-TCDF	3.42e2	0.74	NO	0.982	10.026	17.678	17.69	1.000	1.002	6.0058		2.49	6.01
2	13C-2,3,7,8-TCDF	1.16e4	0.73	NO	1.08	10.026	17.724	17.66	1.133	1.135	132.57	66.5	5.98	
3	13C-1,2,3,4-TCDF	1.61e4	0.81	NO	1.00	10.026	15.660	15.56	1.000	1.000	199.48	100	6.48	

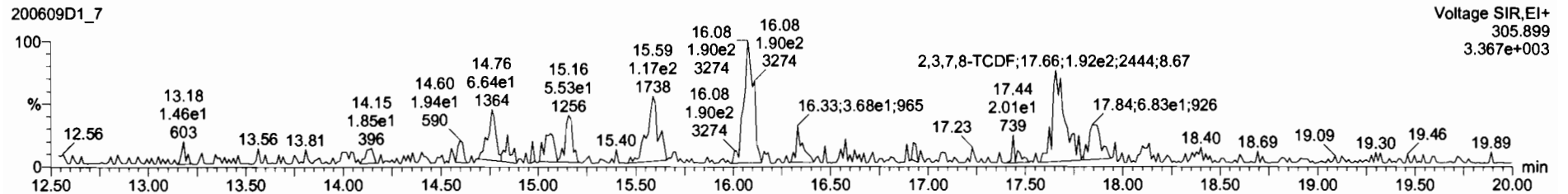
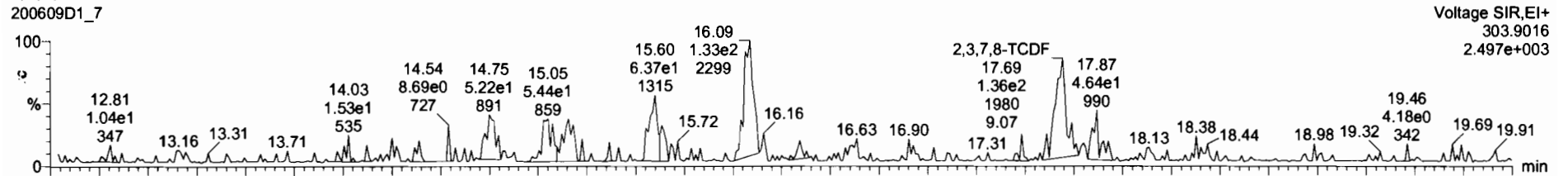
Dataset: U:\VG7.PRO\Results\200609D1\200609D1\_7.qld

Last Altered: Thursday, June 11, 2020 10:32:50 Pacific Daylight Time  
Printed: Thursday, June 11, 2020 10:34:08 Pacific Daylight Time

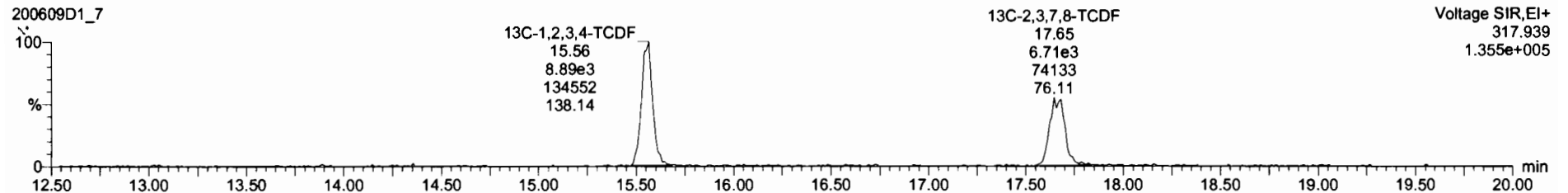
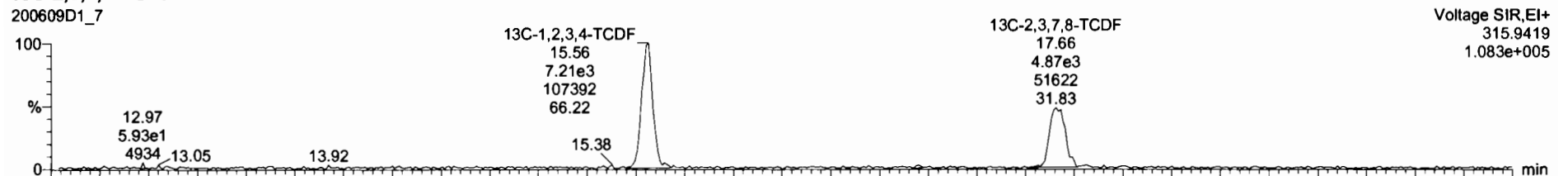
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

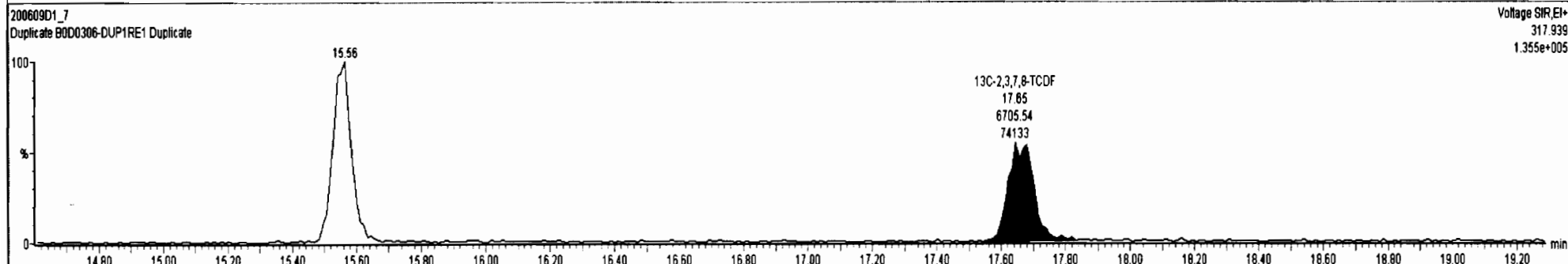
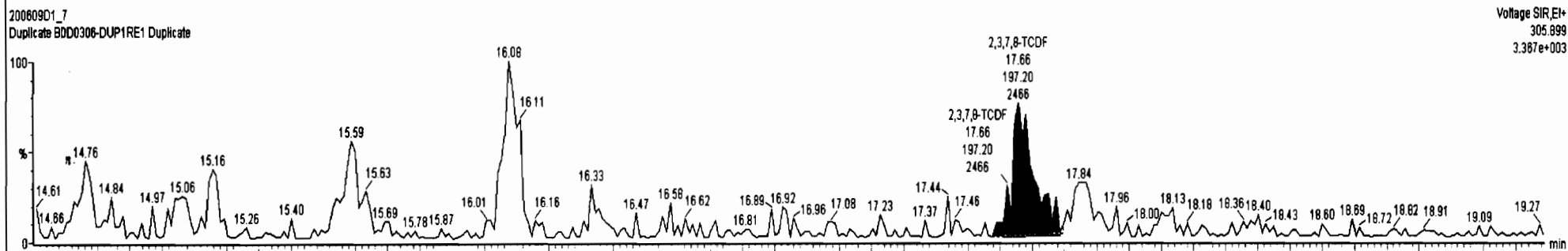
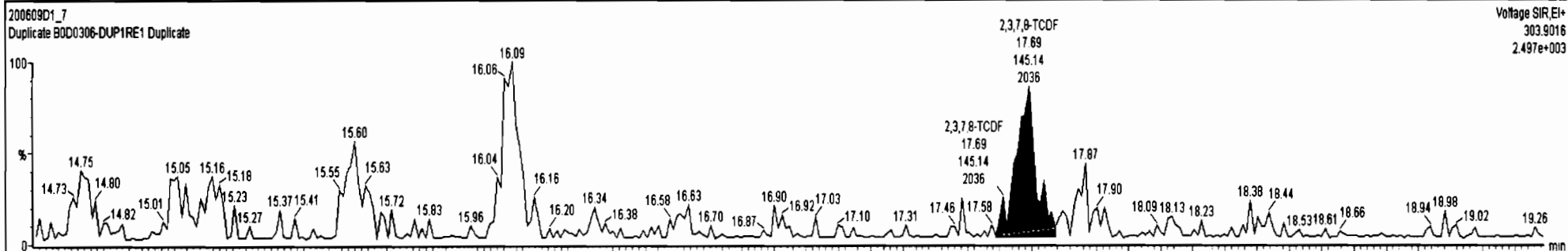
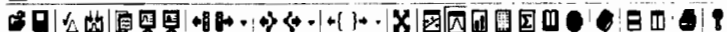
Name: 200609D1\_7, Date: 09-Jun-2020, Time: 16:37:19, ID: B0D0306-DUP1RE1 Duplicate, Description: Duplicate

2,3,7,8-TCDF



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





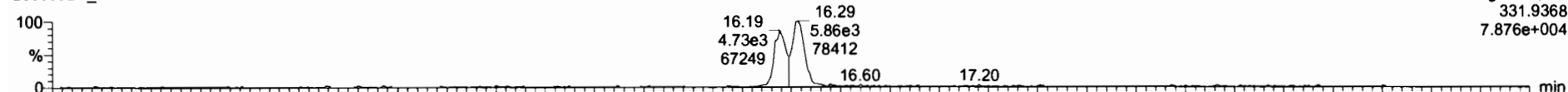
Dataset: U:\VG7.PRO\Results\200609D1\200609D1\_7.qld

Last Altered: Thursday, June 11, 2020 10:32:50 Pacific Daylight Time  
Printed: Thursday, June 11, 2020 10:34:08 Pacific Daylight Time

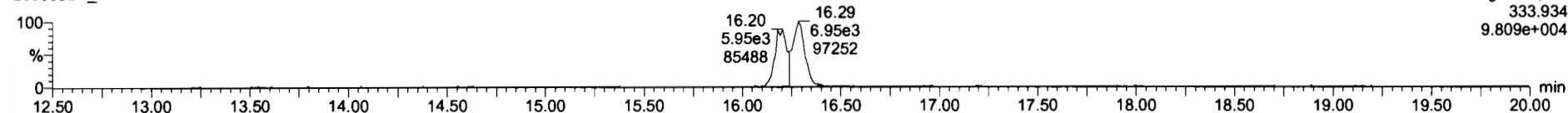
Name: 200609D1\_7, Date: 09-Jun-2020, Time: 16:37:19, ID: B0D0306-DUP1RE1 Duplicate, Description: Duplicate

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

200609D1\_7

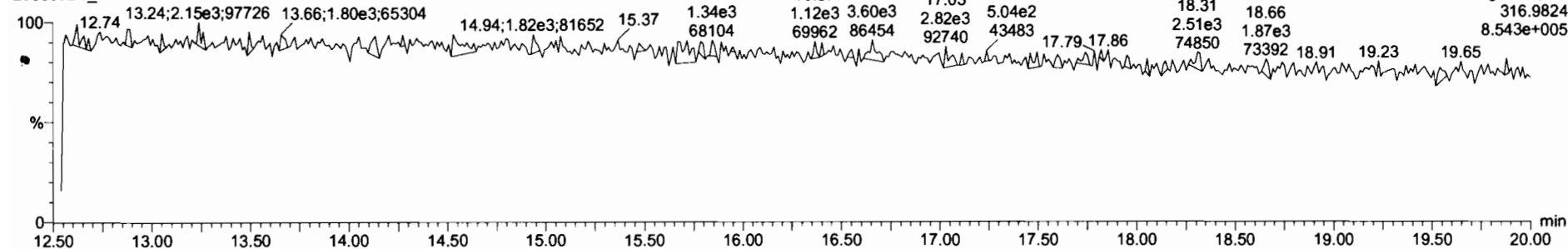


200609D1\_7



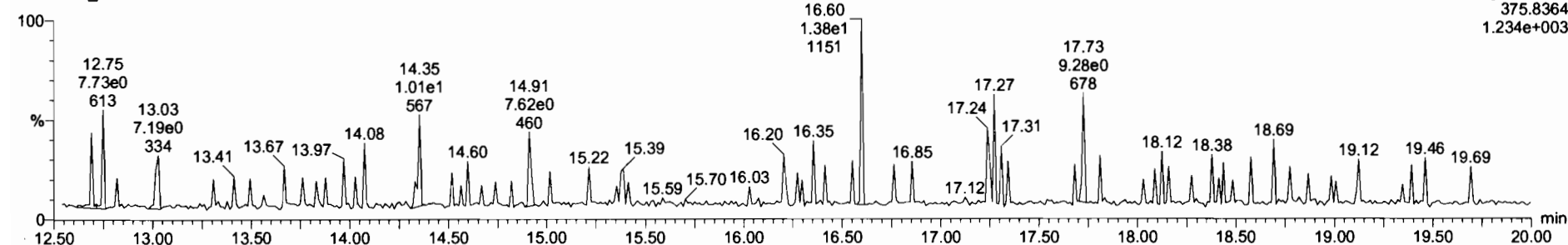
PFK1

200609D1\_7



DPE1

200609D1\_7



## **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>
<b>Ion abundance within QC limits?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Concentrations within criteria?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>TCDD/TCDF Valleys &lt;25%</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>First and last eluters present?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Retention Times within criteria?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Verification Std. named correctly?</b> (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Forms signed and dated?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Correct ICAL referenced?</b>	<u>GRB</u>	<u>GRB</u>
<b><u>Run Log:</u></b>		
- 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>
<b>Mass resolution <math>\geq</math></b>	<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		
<b>Intergrated peaks display correctly?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>GC Break &lt;20%</b>	<input type="checkbox"/> NA	
<b><u>8280 CS1 End Standard:</u></b>		
- 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

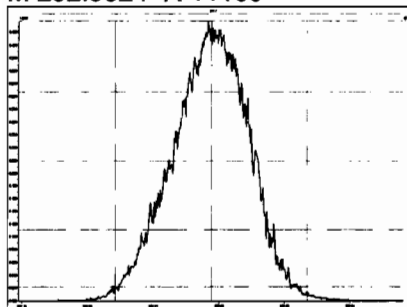
Compound name: 2,3,7,8-TCDD

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

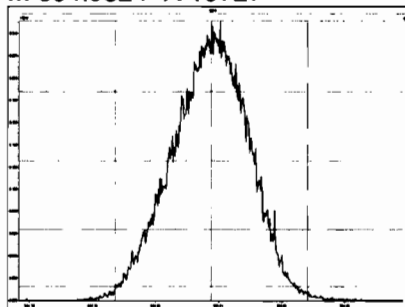
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

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

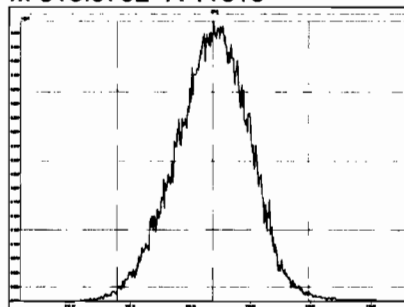
M 292.9824 R 11160



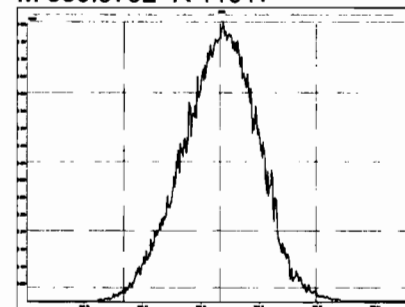
M 304.9824 R 10727



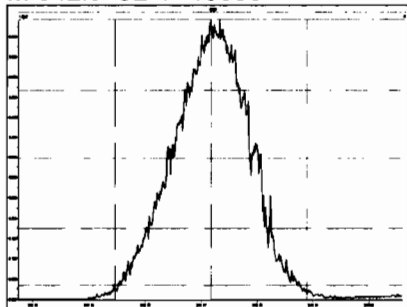
M 318.9792 R 11516



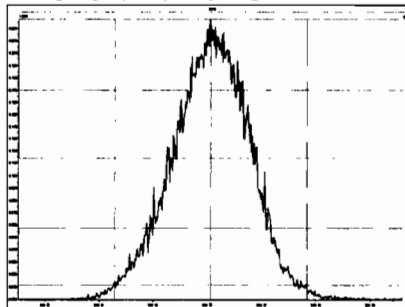
M 330.9792 R 11017



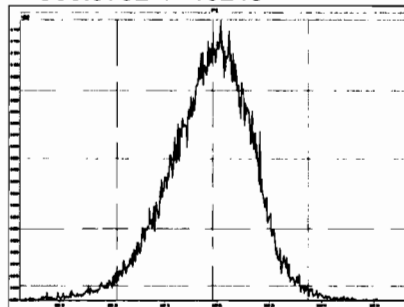
M 342.9792 R 10635



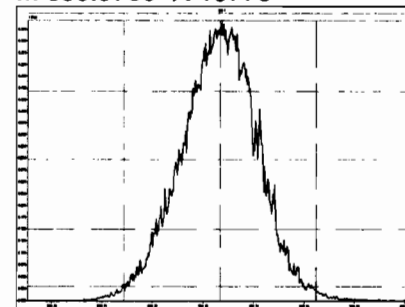
M 354.9792 R 10775



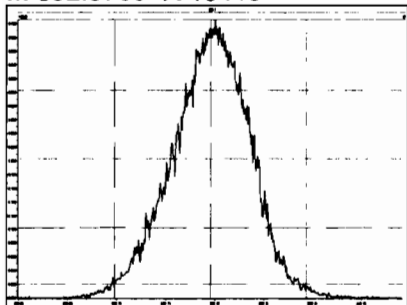
M 366.9792 R 10248



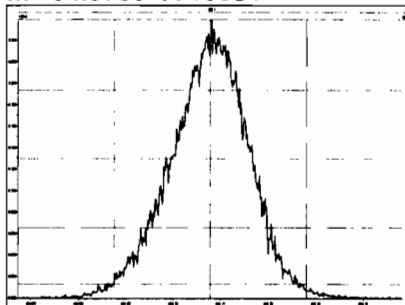
M 380.9760 R 10776



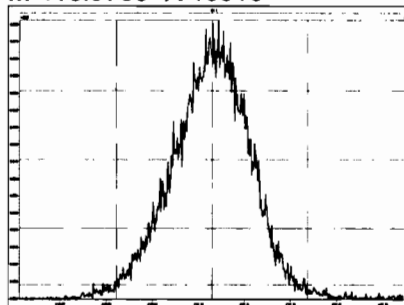
M 392.9760 R 10419



M 404.9760 R 10331



M 416.9760 R 10916



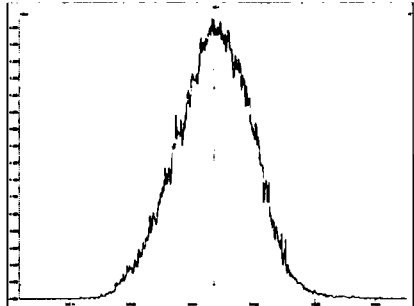
Experiment Calibration Report

MassLynx 4.1 SCN815

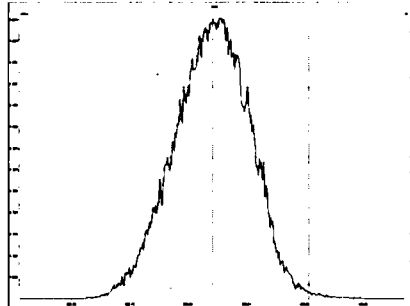
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

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

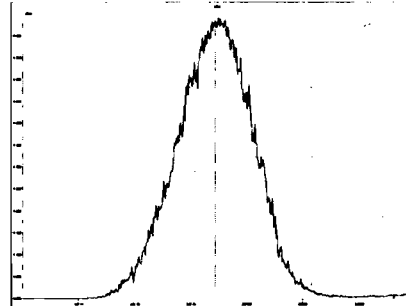
M 318.9792 R 10506



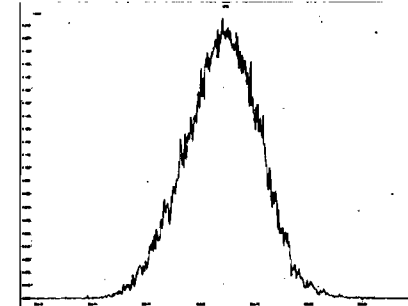
M 330.9792 R 11368



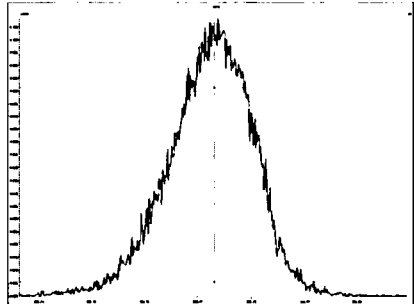
M 342.9792 R 10636



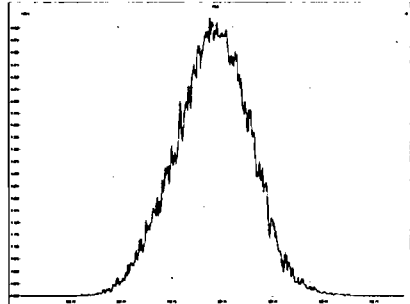
M 354.9792 R 11364



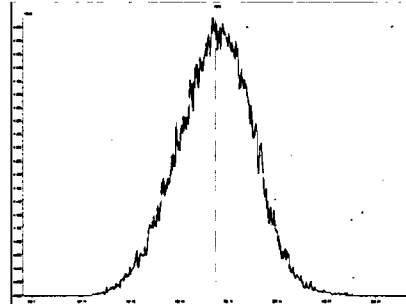
M 366.9792 R 10202



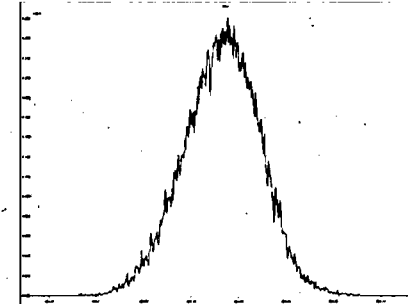
M 380.9760 R 10819



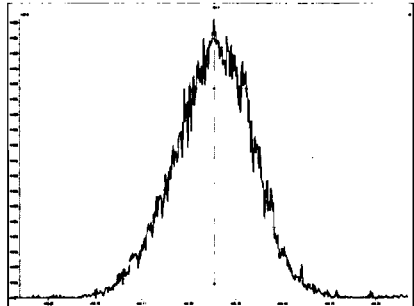
M 392.9760 R 10592



M 404.9760 R 10914



M 416.9760 R 10504



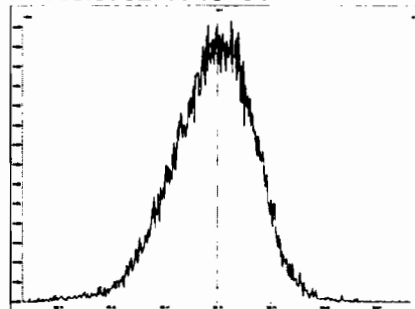
Experiment Calibration Report

MassLynx 4.1 SCN815

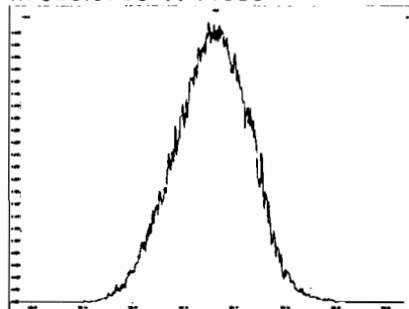
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

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

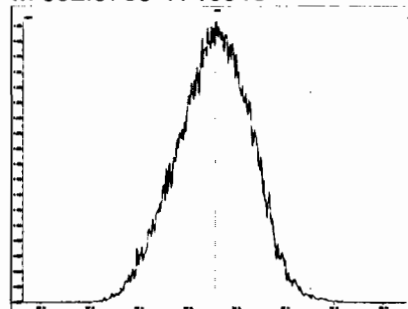
M 366.9792 R 10161



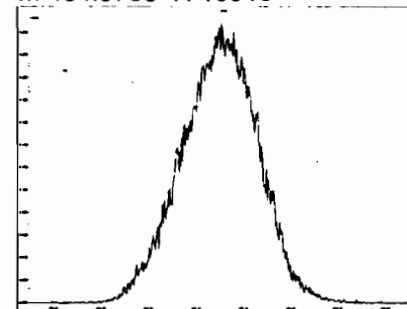
M 380.9760 R 11059



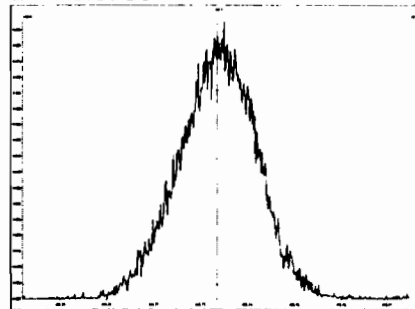
M 392.9760 R 10916



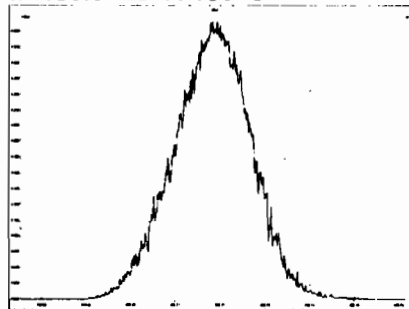
M 404.9760 R 10915



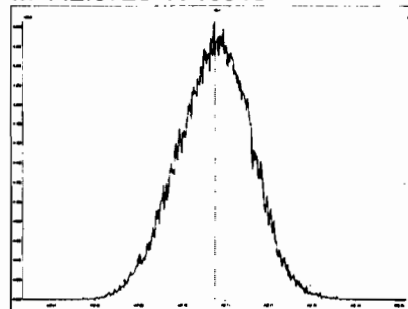
M 416.9760 R 11312



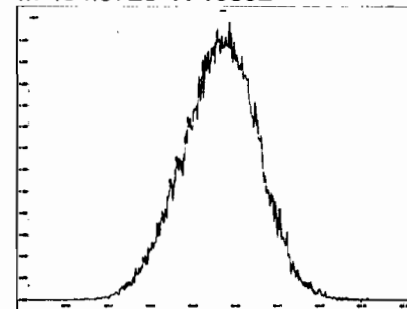
M 430.9728 R 10916



M 442.9728 R 10918



M 454.9728 R 10592



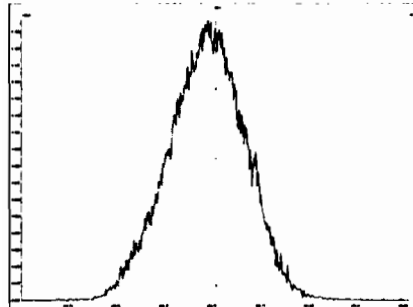
**Experiment Calibration Report**

**MassLynx 4.1 SCN815**

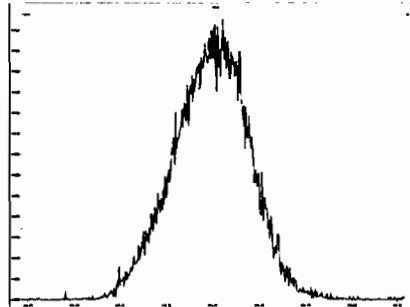
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

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

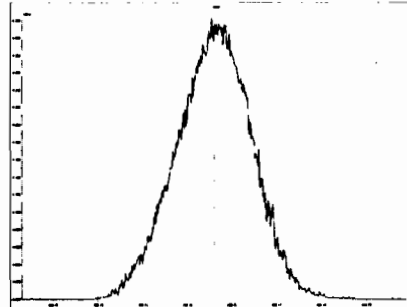
M 404.9760 R 11060



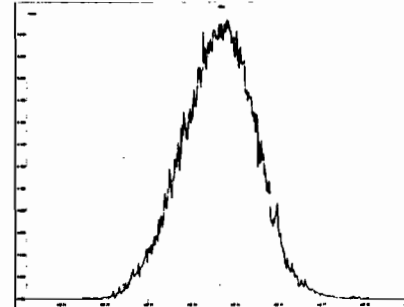
M 416.9760 R 10918



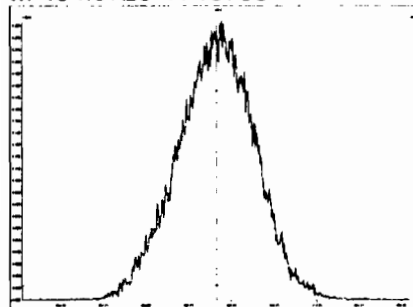
M 430.9728 R 10964



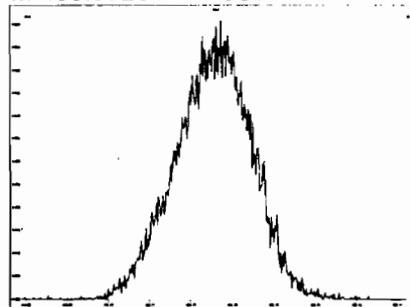
M 442.9728 R 11259



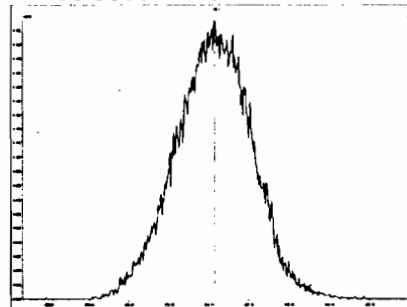
M 454.9728 R 10730



M 466.9728 R 11681



M 480.9696 R 10777



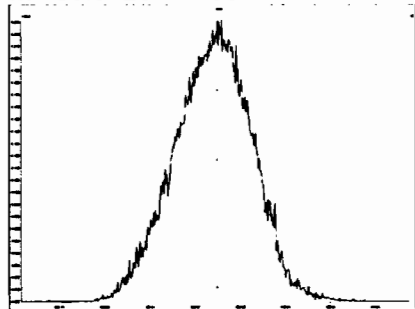
**Experiment-Calibration Report**

**MassLynx 4.1 SCN815**

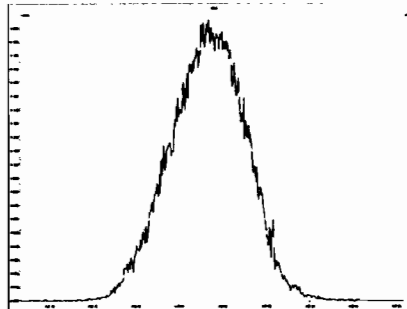
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

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

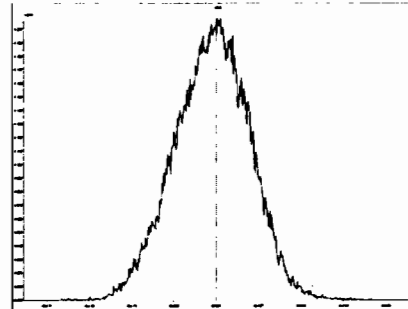
M 430.9728 R 10824



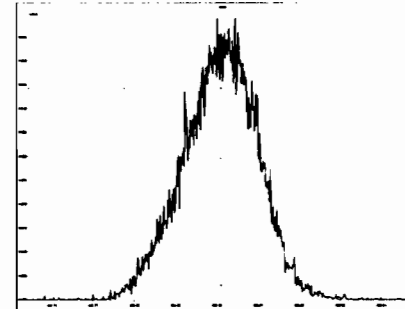
M 442.9728 R 11157



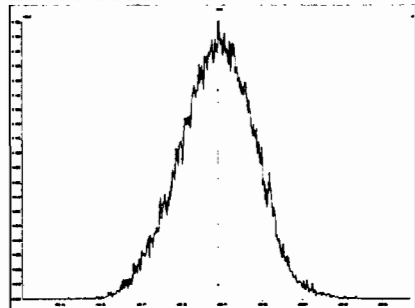
M 454.9728 R 11064



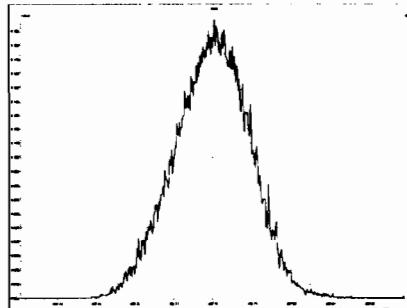
M 466.9728 R 11313



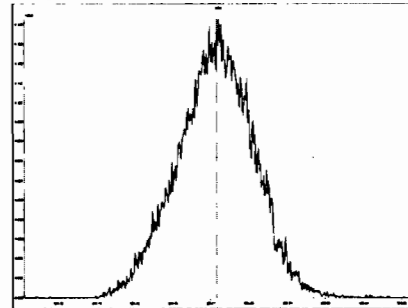
M 480.9696 R 11210



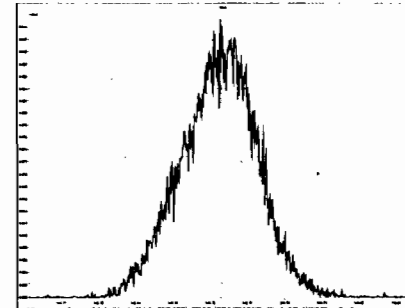
M 492.9696 R 11063



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\ldb5\_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

Dataset: Untitled

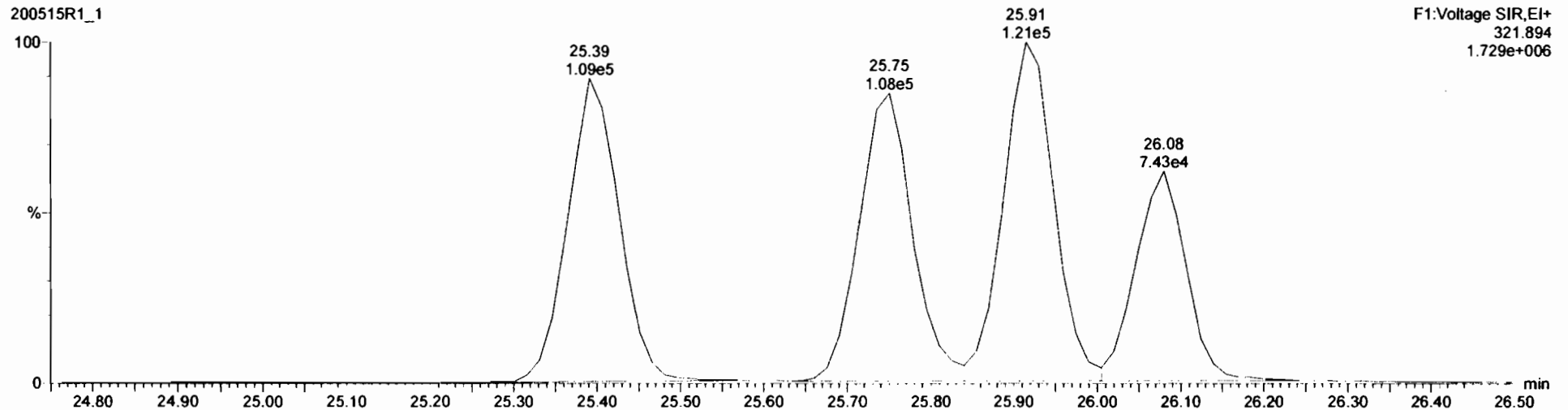
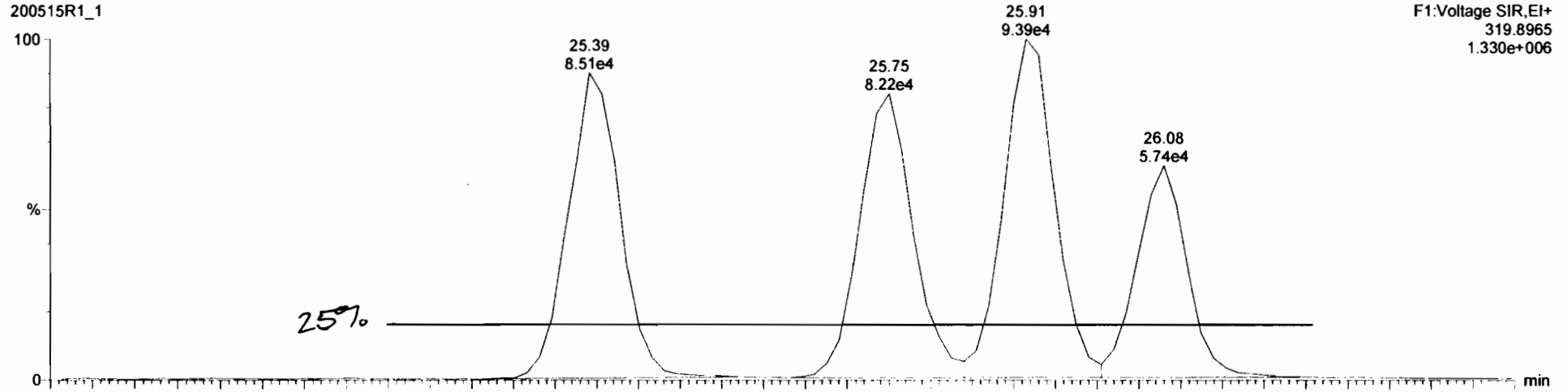
Last Altered: Friday, May 15, 2020 09:01:12 Pacific Daylight Time  
Printed: Friday, May 15, 2020 09:01:52 Pacific Daylight Time

GRB 05/15/2020

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

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)



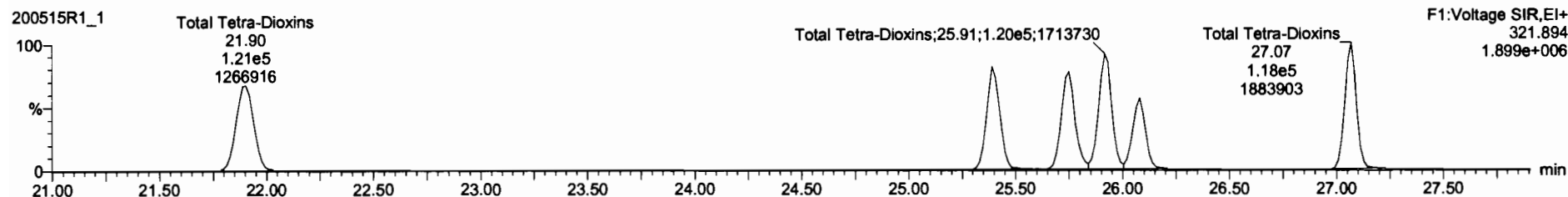
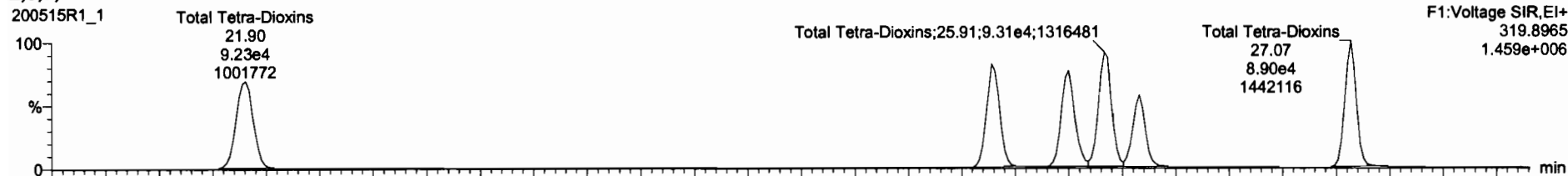
Dataset: Untitled

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

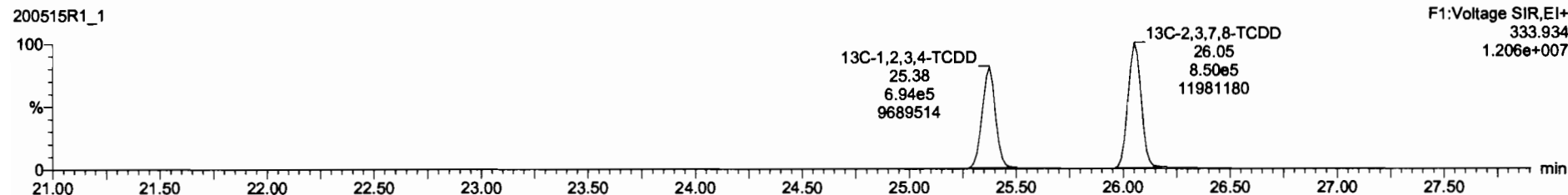
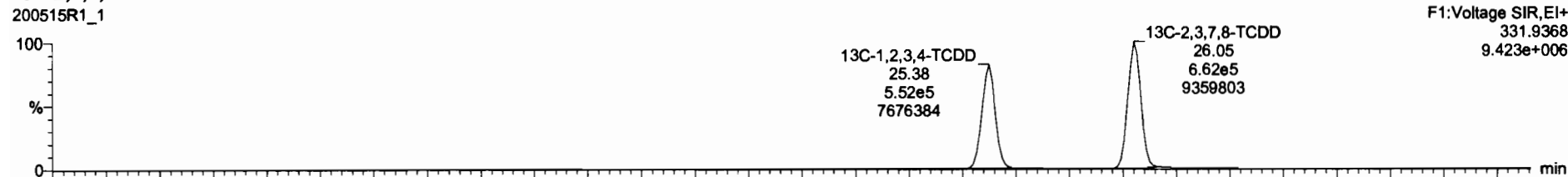
Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200515R1\_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



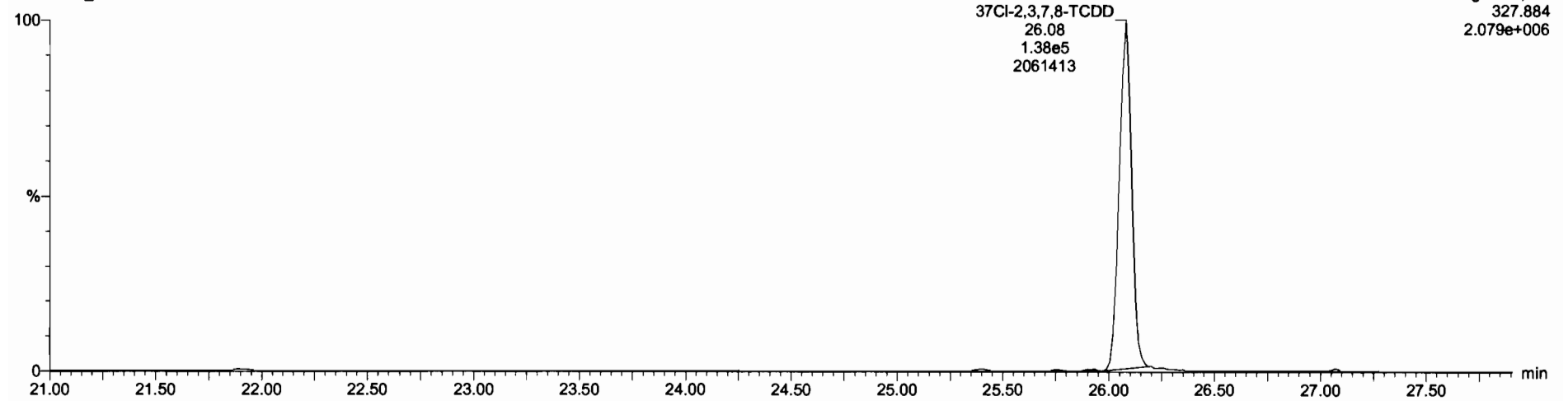
Dataset: Untitled

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

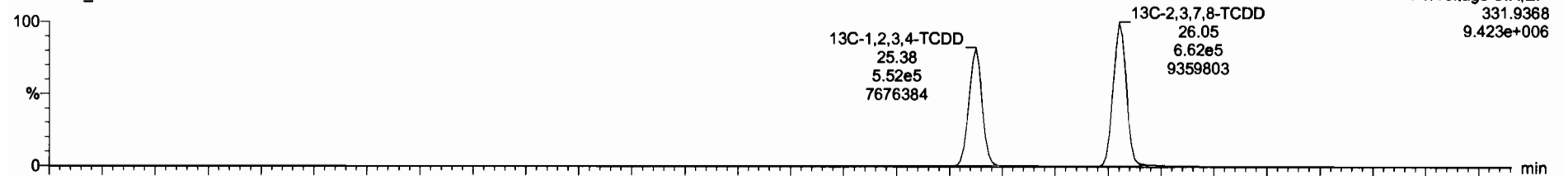
**37Cl-2,3,7,8-TCDD**

200515R1\_1

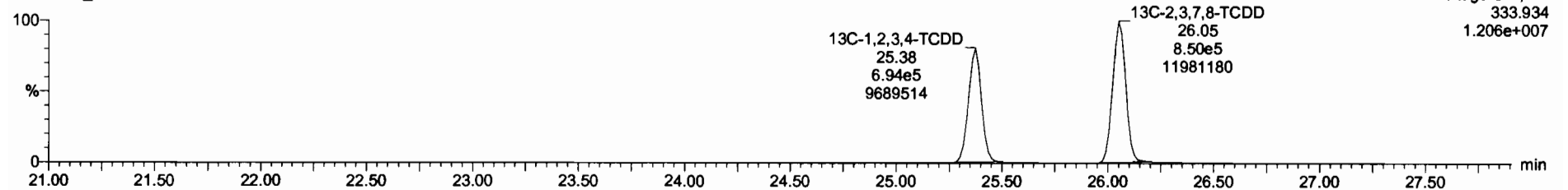


**13C-1,2,3,4-TCDD**

200515R1\_1



200515R1\_1



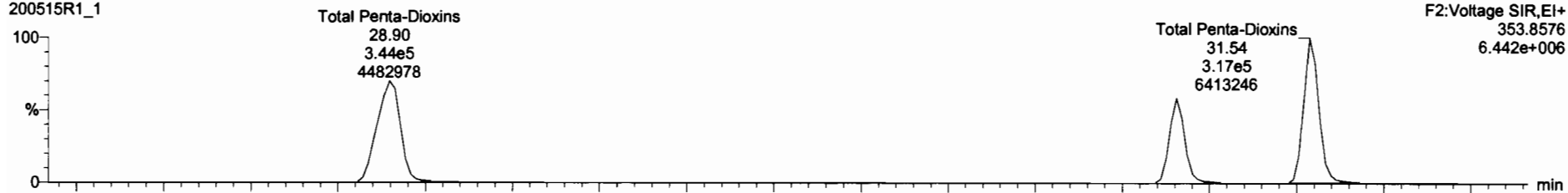
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Printed: Friday, May 15, 2020 09:08:51 Pacific Daylight Time

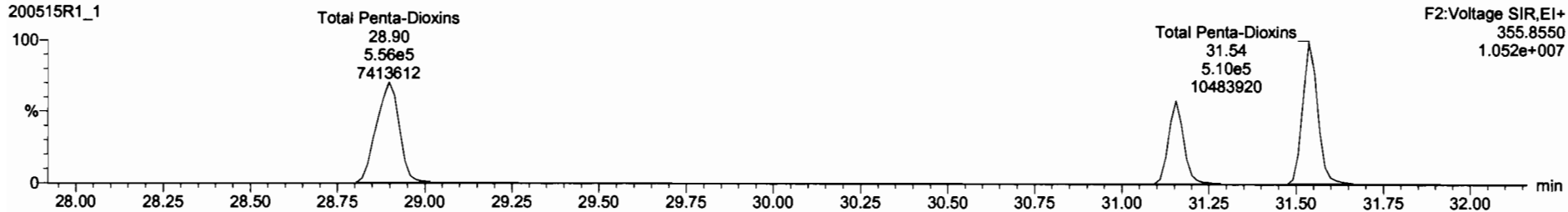
Name: 200515R1\_1, Date: 15-May-2020, Time: 08:13:47, ID: ST200515R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

**1,2,3,7,8-PeCDD**

200515R1\_1

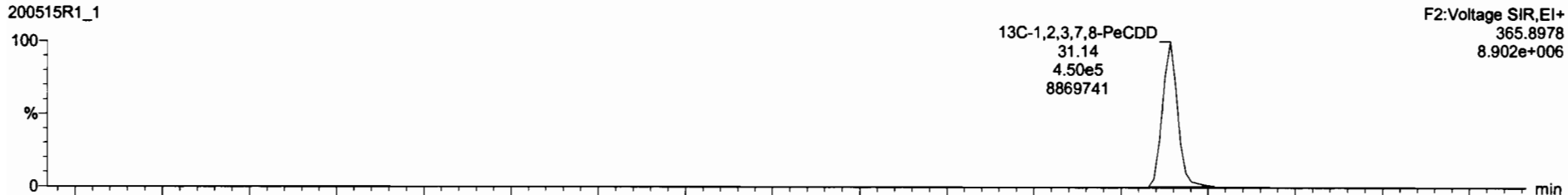


200515R1\_1

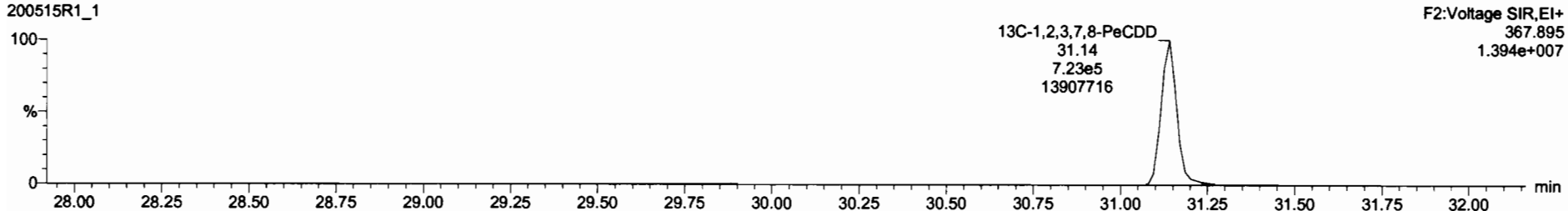


**13C-1,2,3,7,8-PeCDD**

200515R1\_1



200515R1\_1



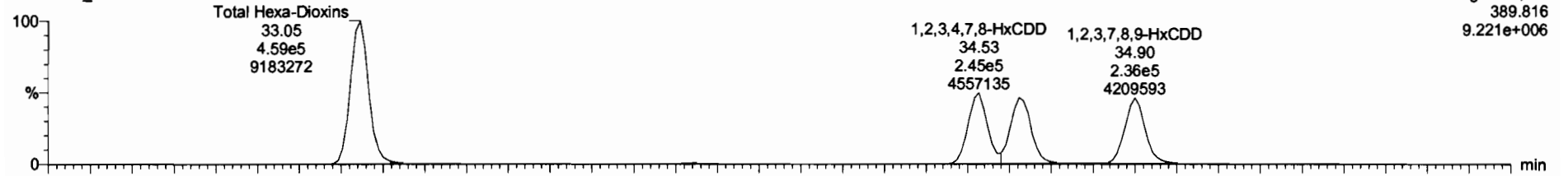
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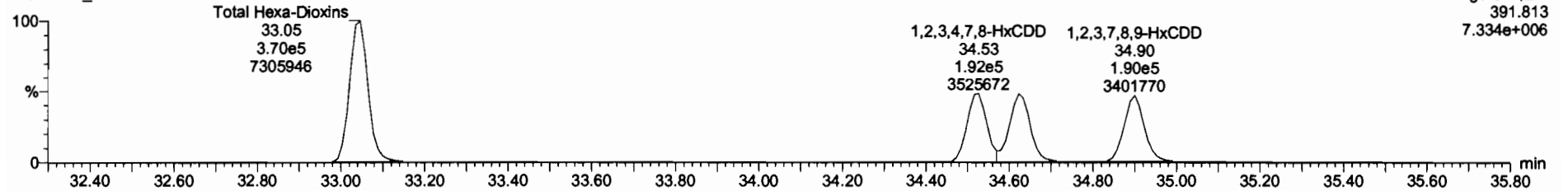
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1,2,3,4,7,8-HxCDD

200515R1\_1

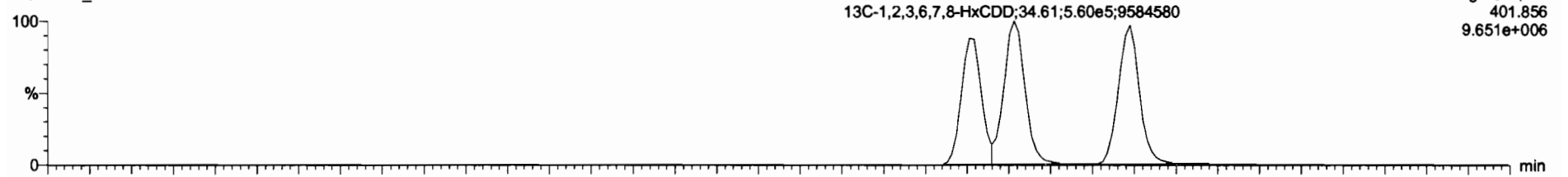


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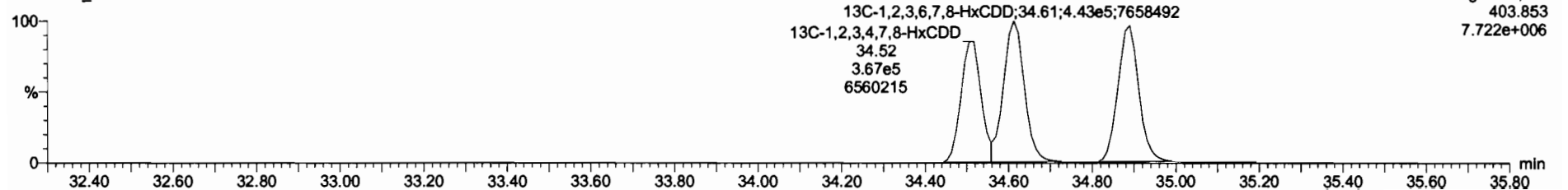


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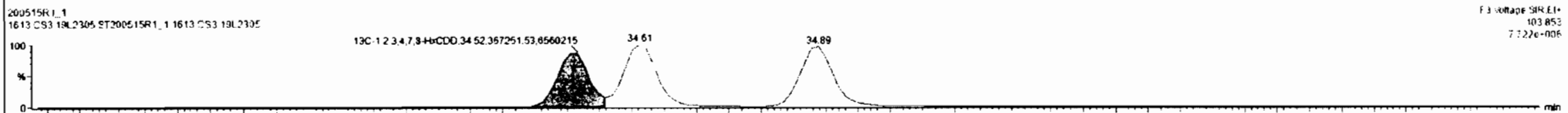
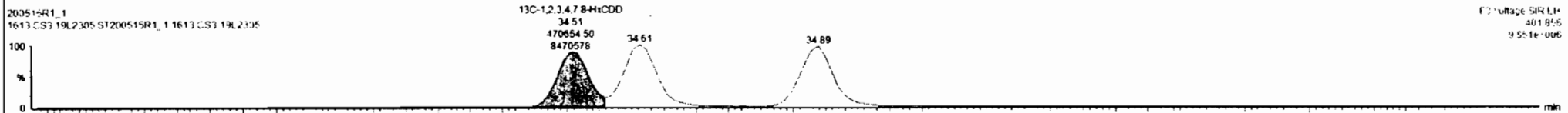
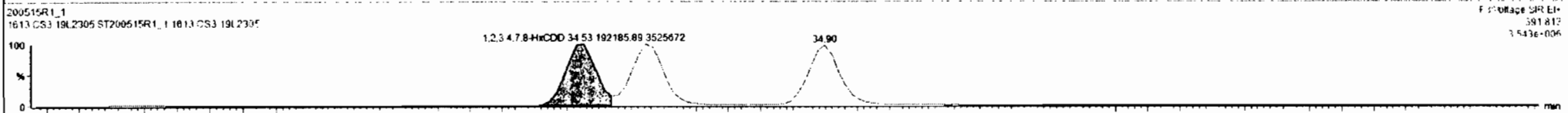
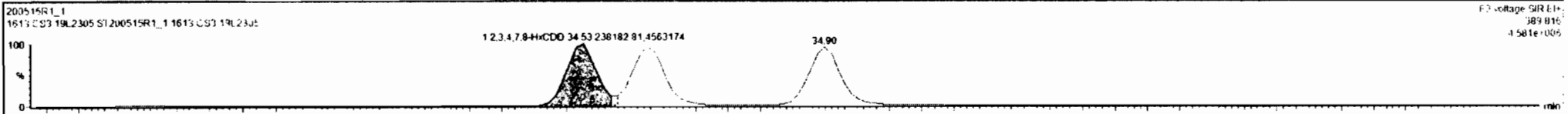
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200515R1\_1

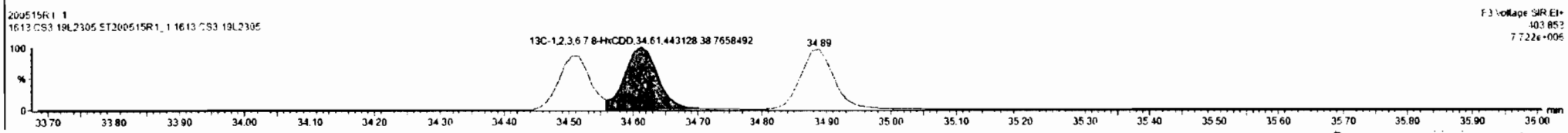
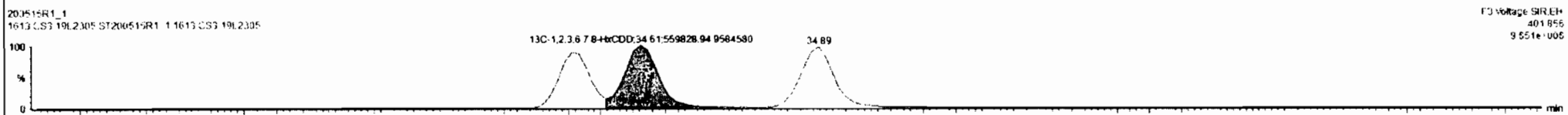
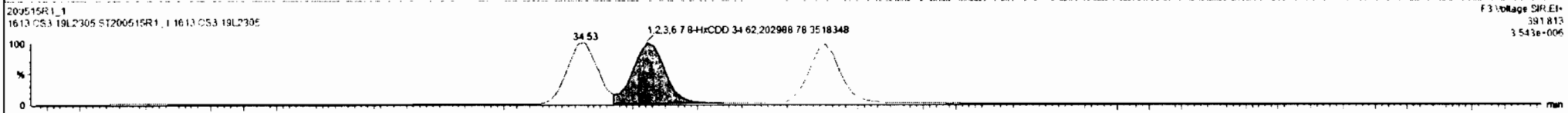
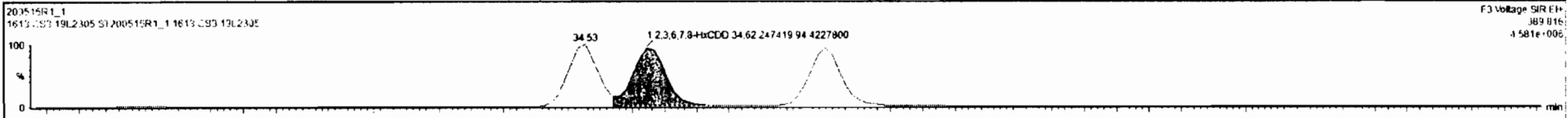


#	Name	Resp	IS Resp	Pred RA	RA	aly	RPF	PredRT	RT	RT Flag	Pred RRT	RRT	Conc	WRec	STD out
1	1,2,3,7,8-TCDD	1.29e5	1.51e6	0.77	0.77	NO	0.9475	26.08	26.08	NO	1.001	1.001	9.03	90.3	NO
2	1,2,3,7,8-PeCDD	5.02e5	1.17e6	0.63	0.62	NO	0.9425	31.16	31.16	NO	1.001	1.000	45.4	90.8	NO
3	1,2,3,7,8-HxCDD	4.45e5	1.00e6	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	1,2,3,7,8,9-HxCDF	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	1,2,3,4,6,7,8-HpCDD	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	OCDD	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	2,3,7,8-TCDF	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	1,2,3,7,8-PeCDF	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	2,3,4,7,8-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	1,2,3,4,7,8-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	RSD	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	98.6	NO
9	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	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





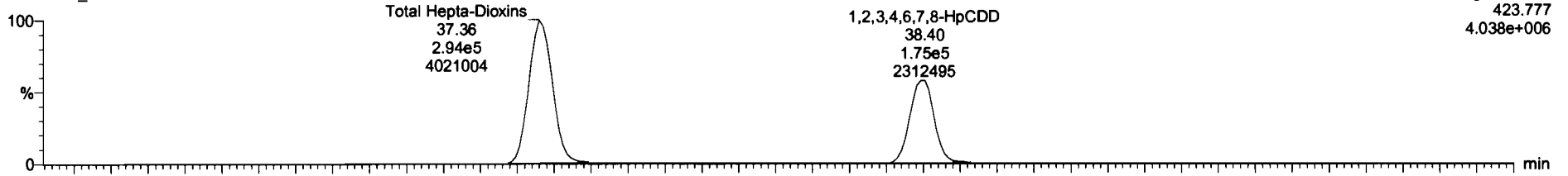
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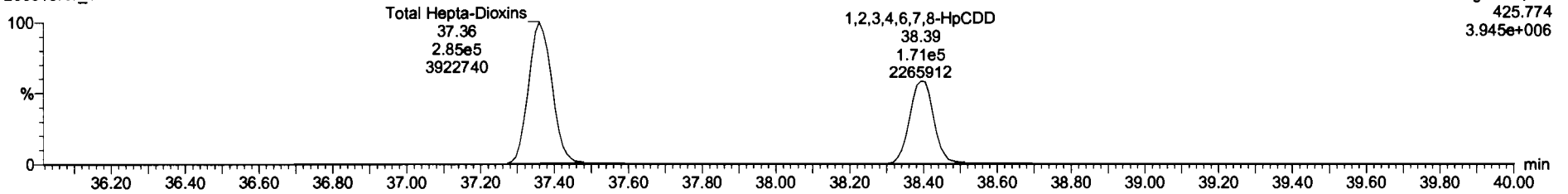
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**1,2,3,4,6,7,8-HpCDD**

200515R1\_1

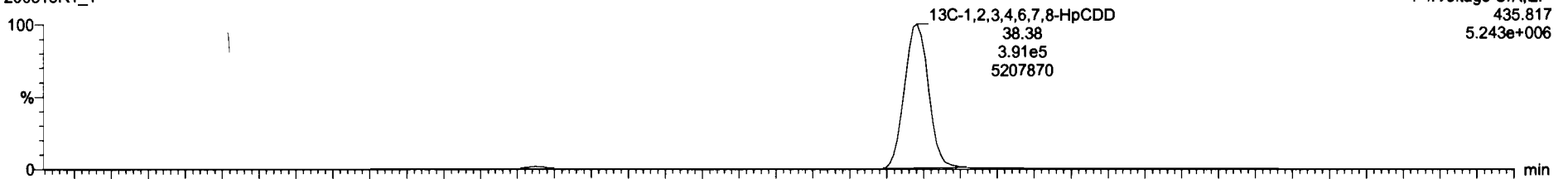


200515R1\_1

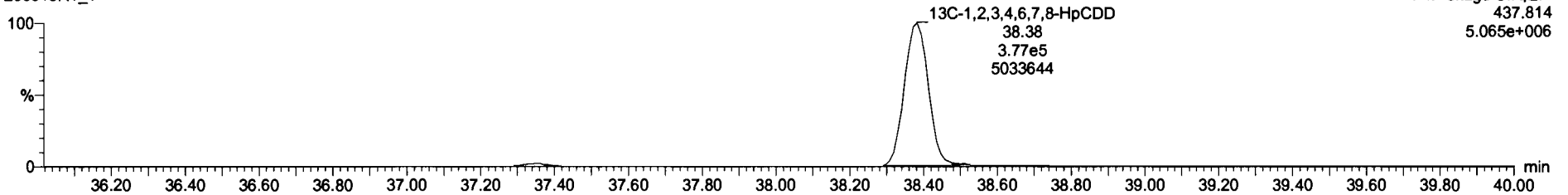


**13C-1,2,3,4,6,7,8-HpCDD**

200515R1\_1



200515R1\_1



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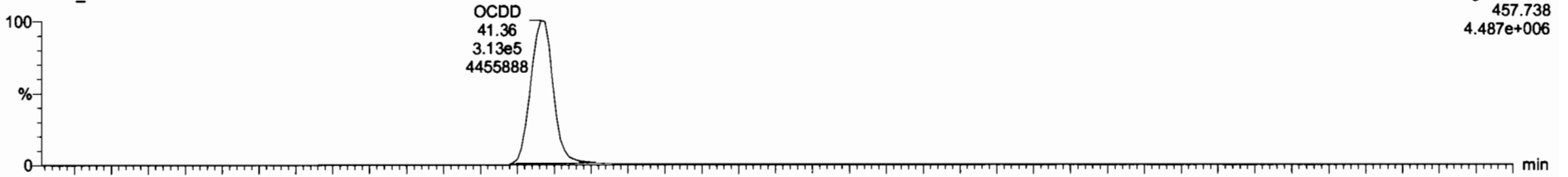
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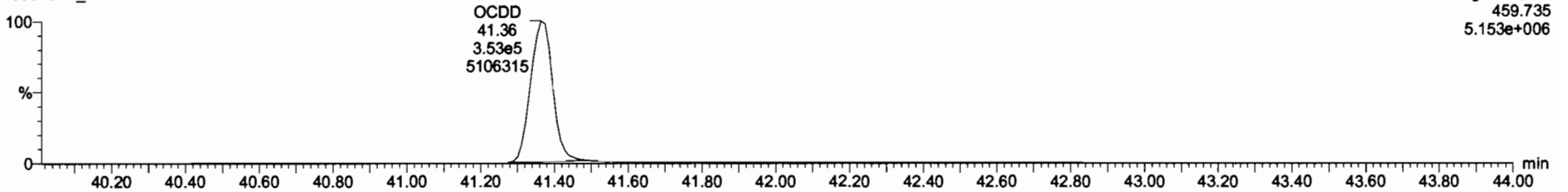
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**OCDD**

200515R1\_1



200515R1\_1

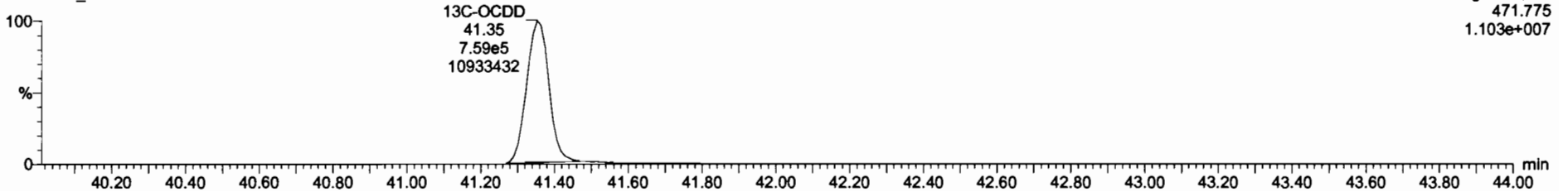


**13C-OCDD**

200515R1\_1



200515R1\_1

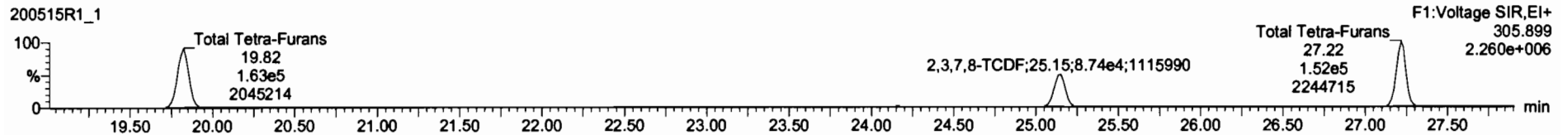


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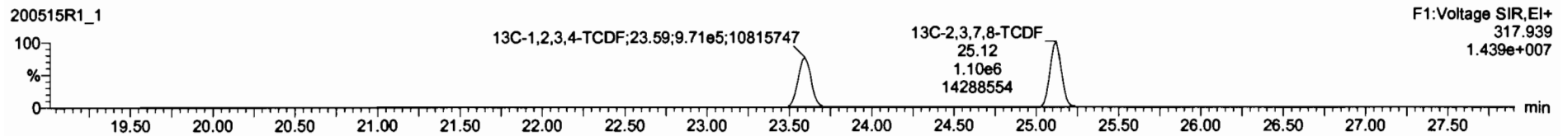
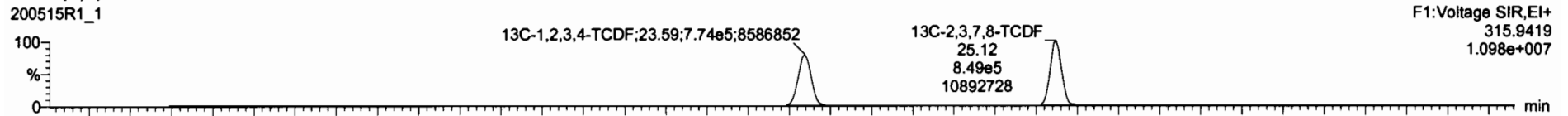
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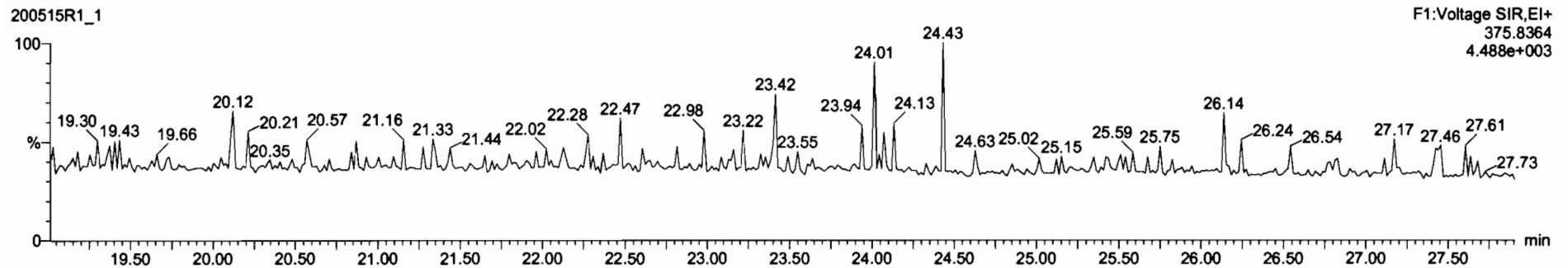
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**13C-2,3,7,8-TCDF**



**DPE1**



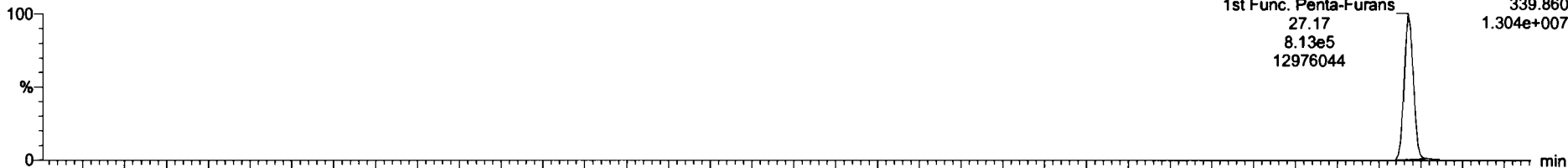
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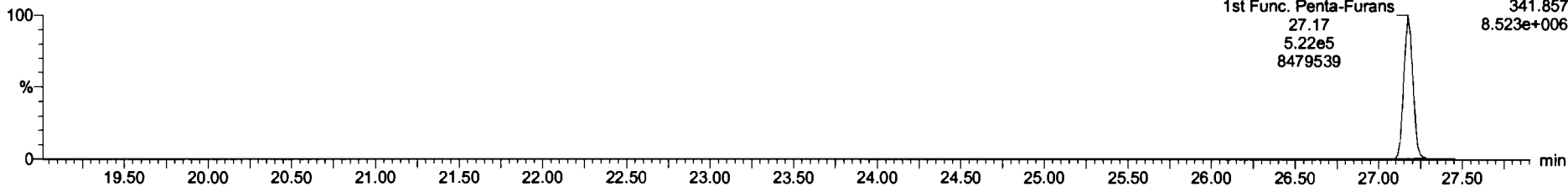
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200515R1\_1

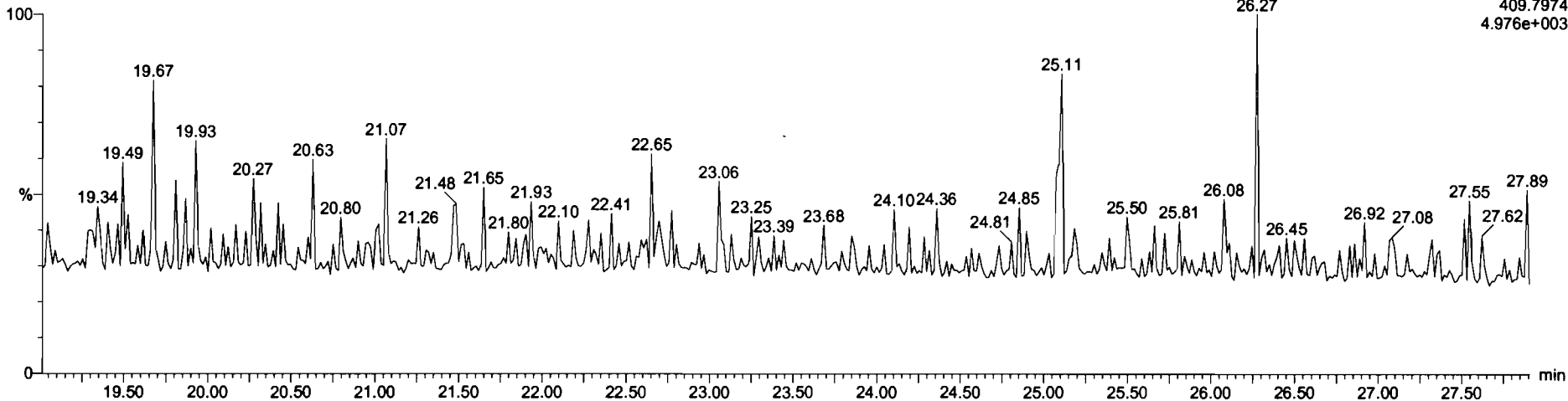


200515R1\_1



DPE6

200515R1\_1



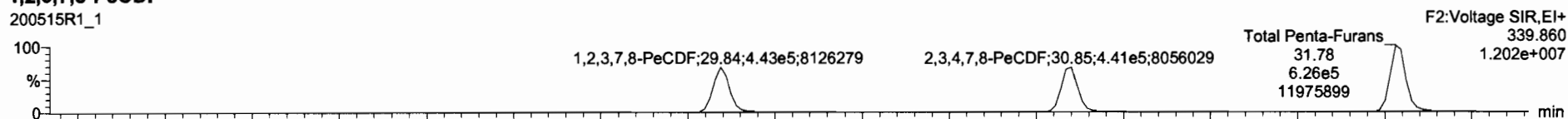
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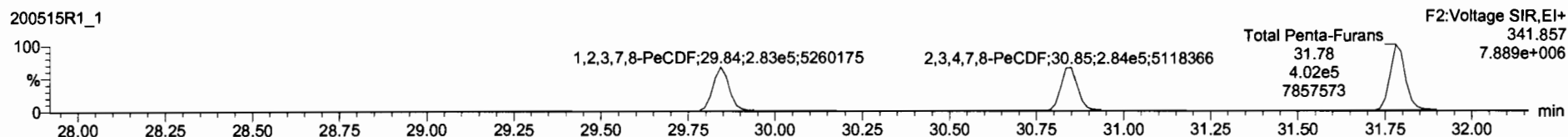
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**1,2,3,7,8-PeCDF**

200515R1\_1

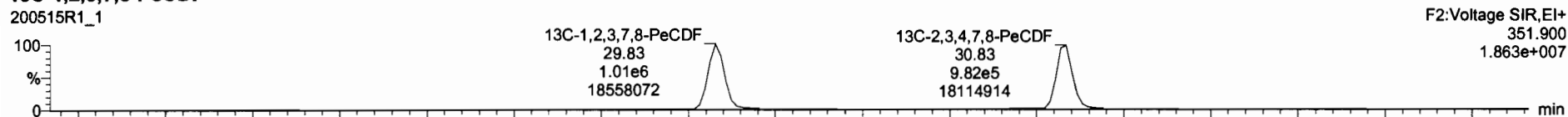


200515R1\_1

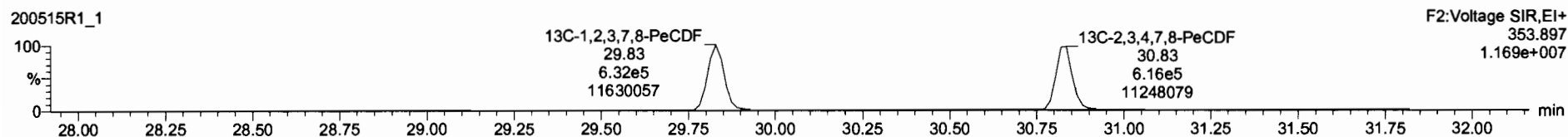


**13C-1,2,3,7,8-PeCDF**

200515R1\_1

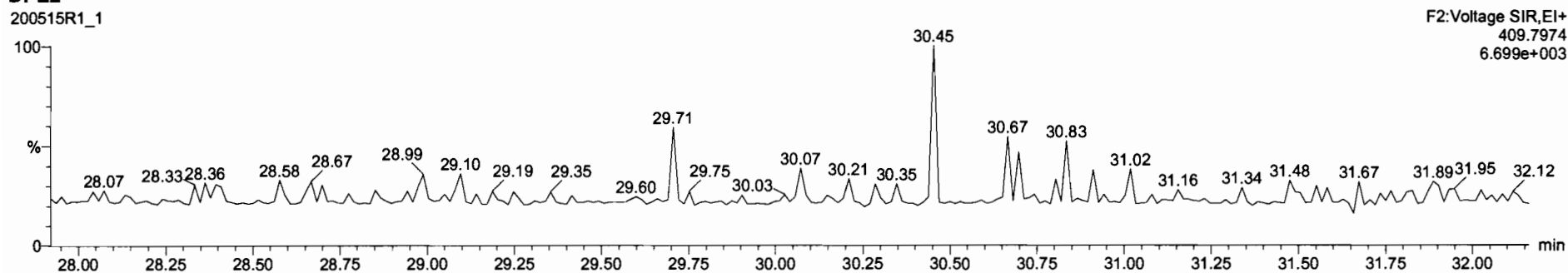


200515R1\_1



**DPE2**

200515R1\_1

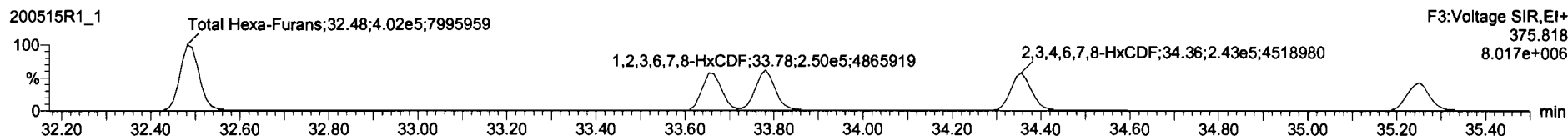
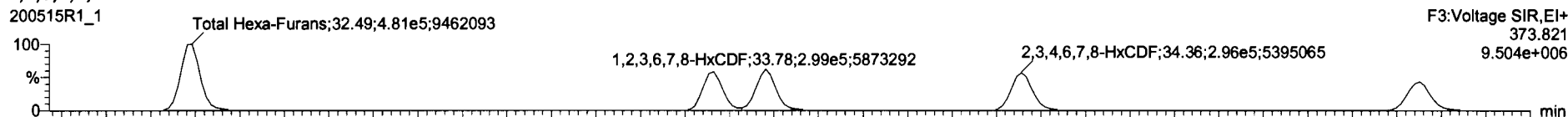


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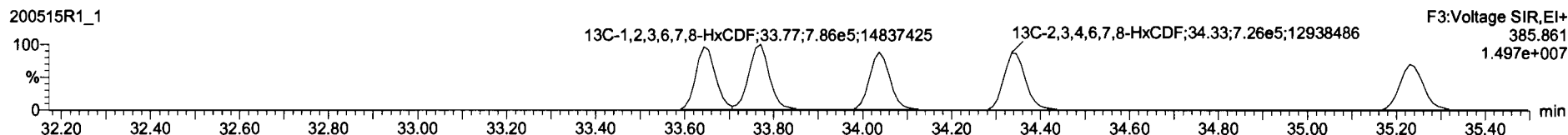
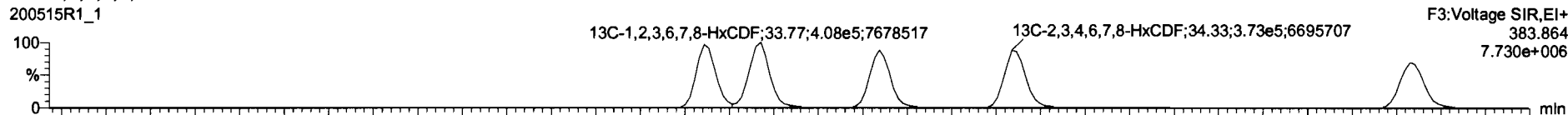
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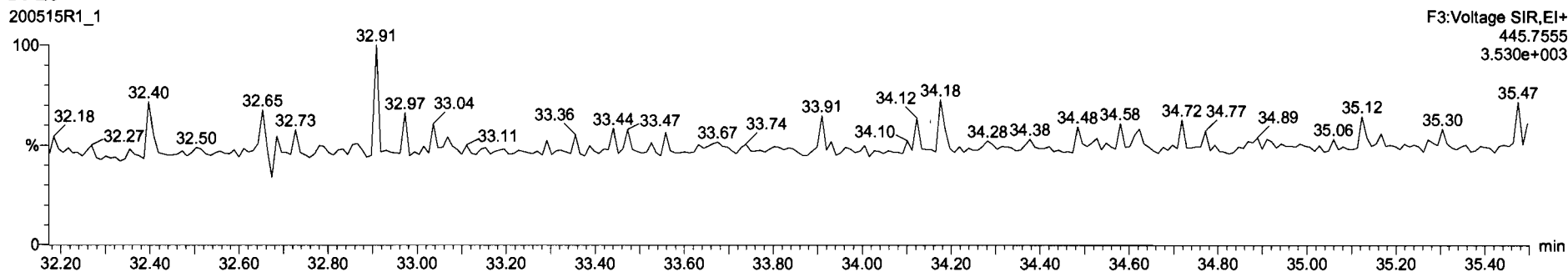
1,2,3,4,7,8-HxCDF



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



DPE3



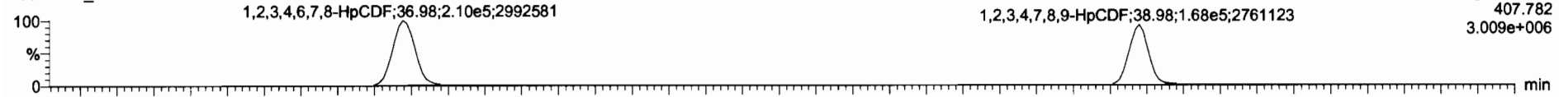
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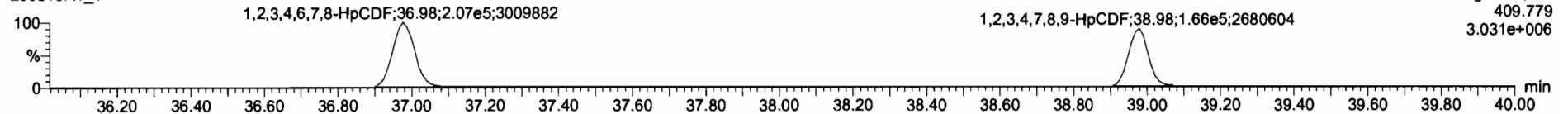
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**1,2,3,4,6,7,8-HpCDF**

200515R1\_1



200515R1\_1

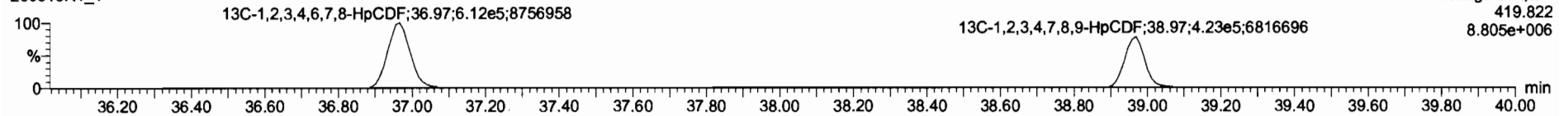


**13C-1,2,3,4,6,7,8-HpCDF**

200515R1\_1

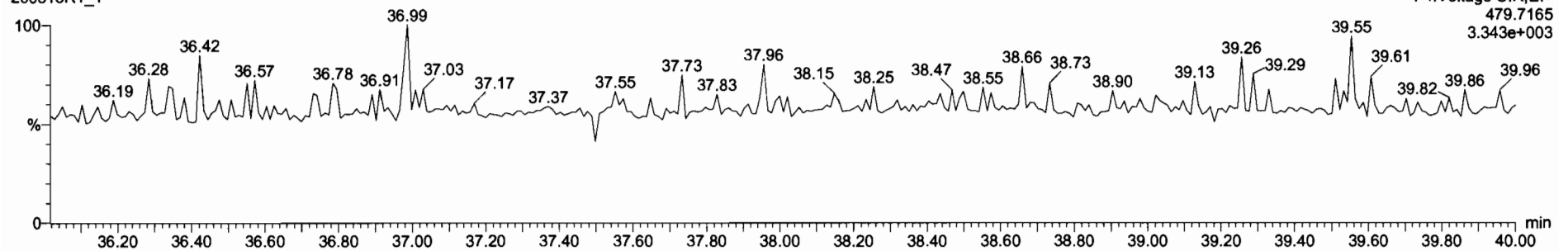


200515R1\_1



**DPE4**

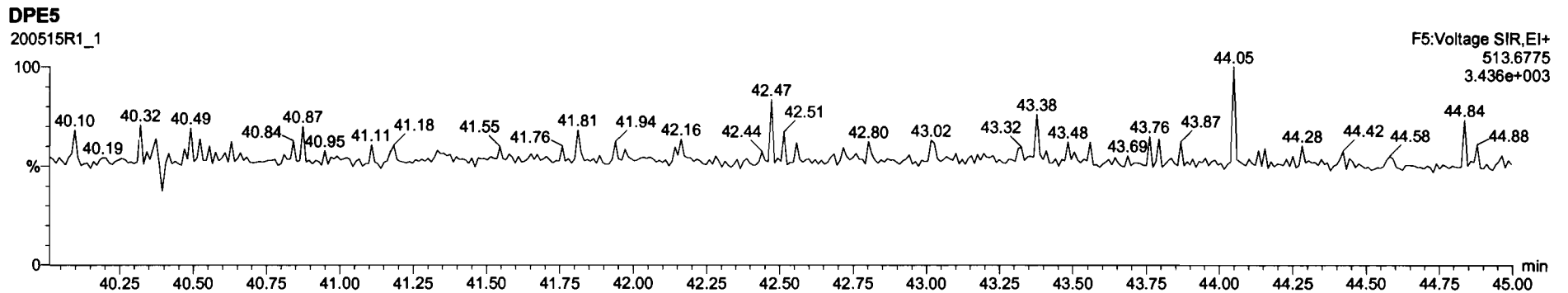
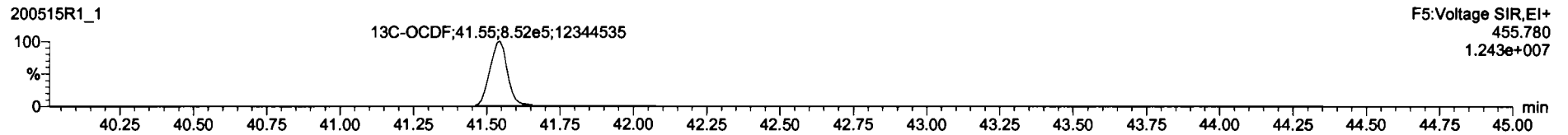
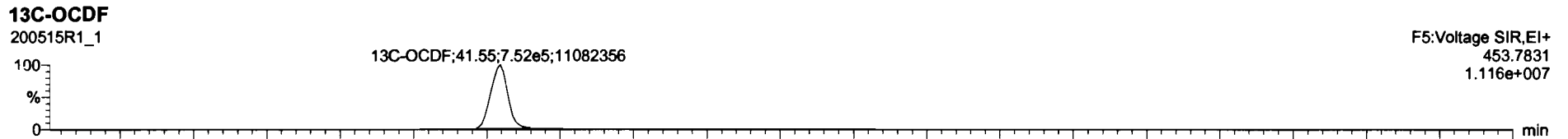
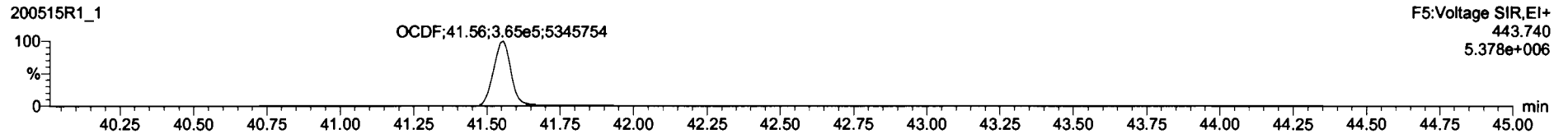
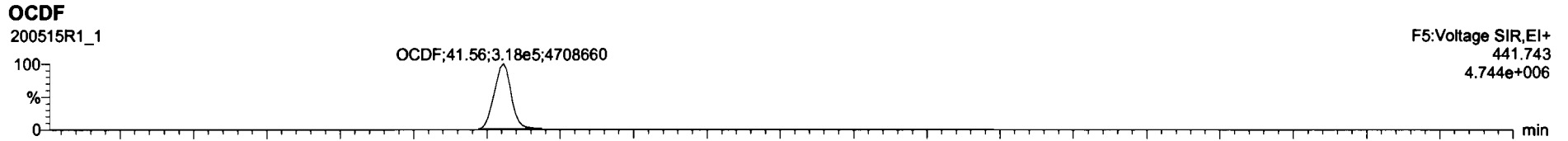
200515R1\_1



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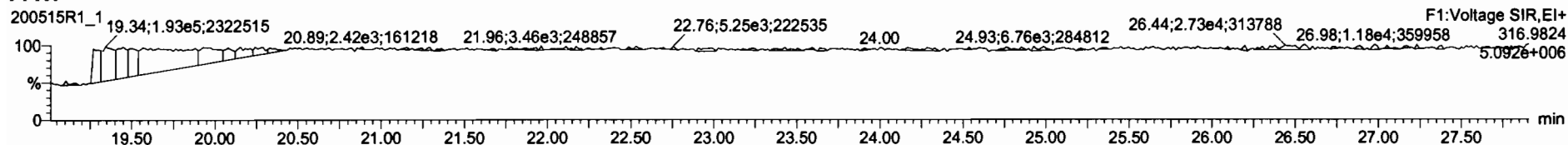


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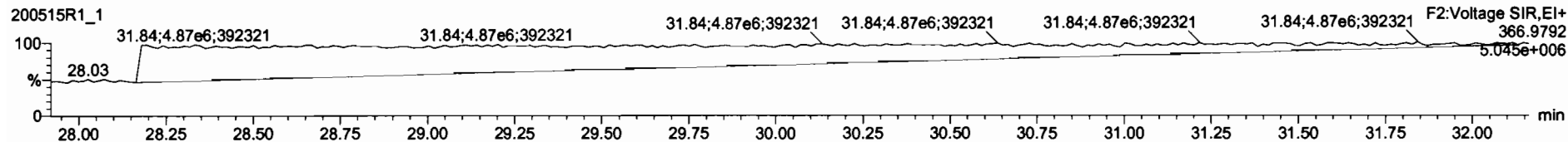
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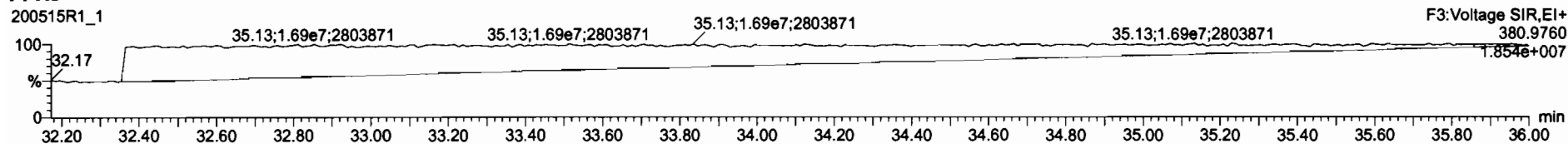
PFK1



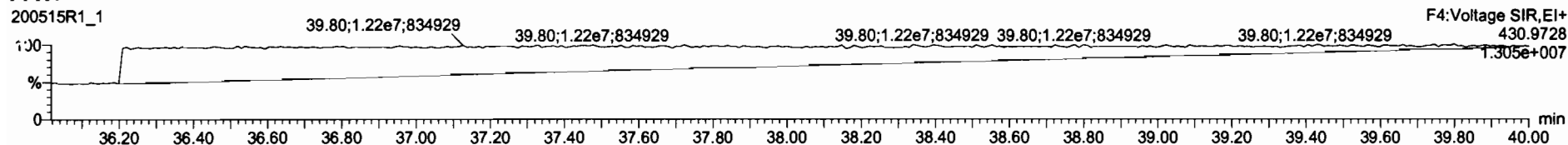
PFK2



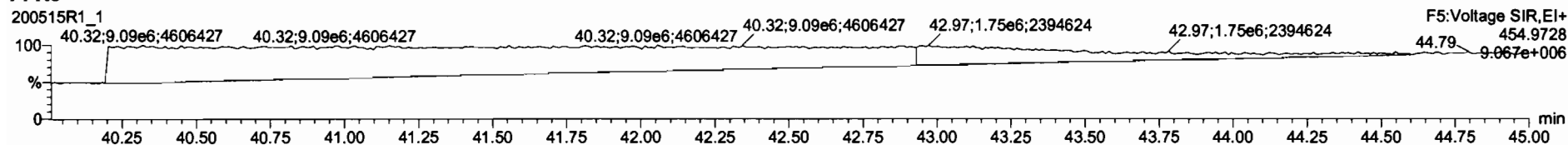
PFK3



PFK4



PFK5



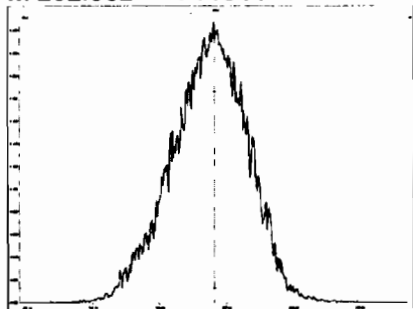
Experiment Calibration Report

MassLynx 4.1 SCN815

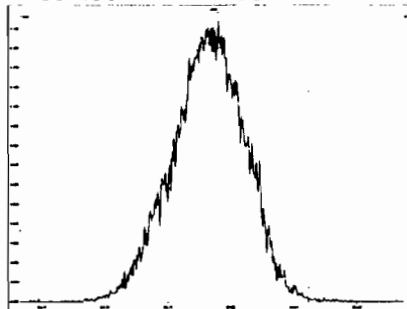
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

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

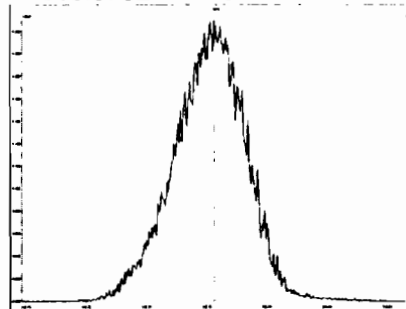
M 292.9824 R 11311



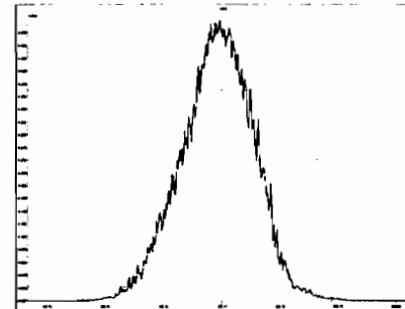
M 304.9824 R 11360



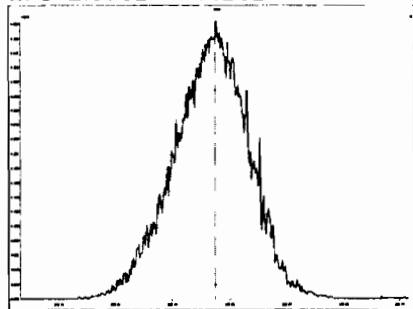
M 318.9792 R 11521



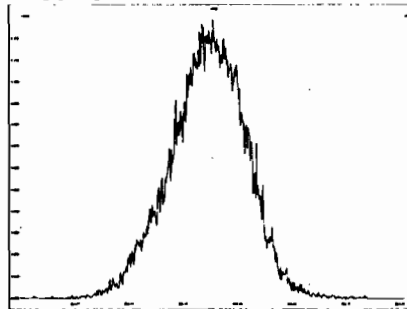
M 330.9792 R 11960



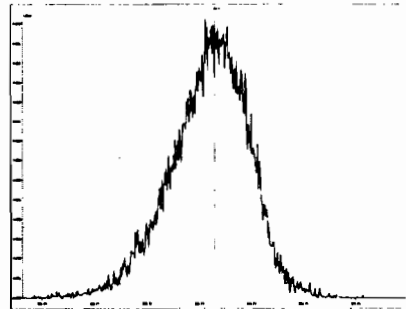
M 342.9792 R 11262



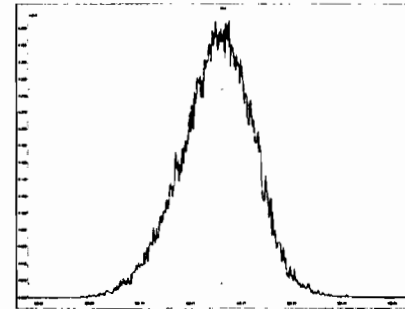
M 354.9792 R 11210



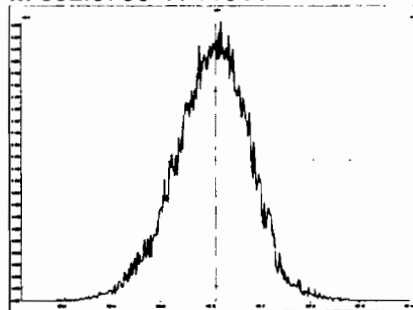
M 366.9792 R 11157



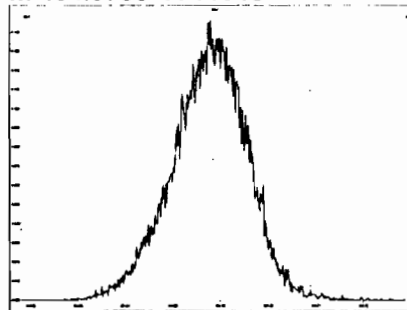
M 380.9760 R 11111



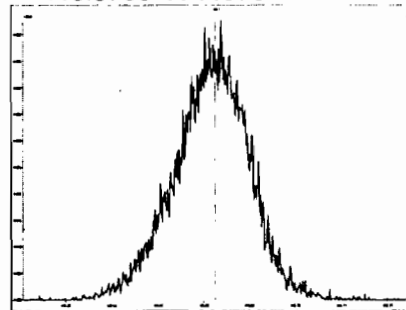
M 392.9760 R 11011



M 404.9760 R 11013



M 416.9760 R 11573



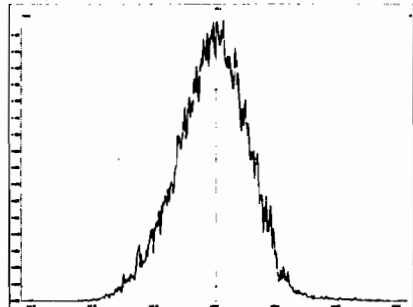
**Experiment Calibration Report**

**MassLynx 4.1 SCN815**

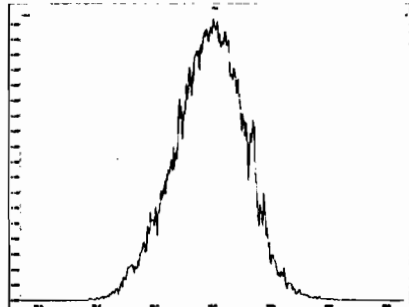
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

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

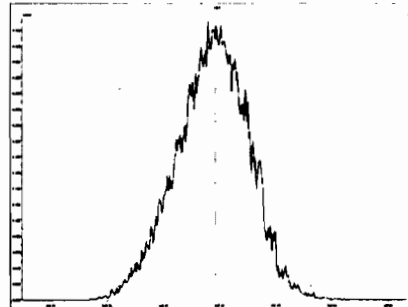
M 318.9792 R 11365



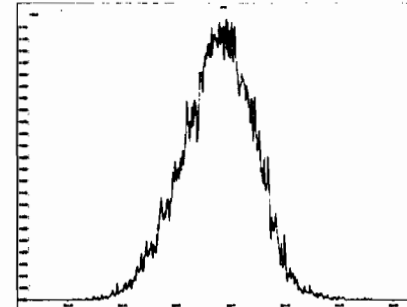
M 330.9792 R 11736



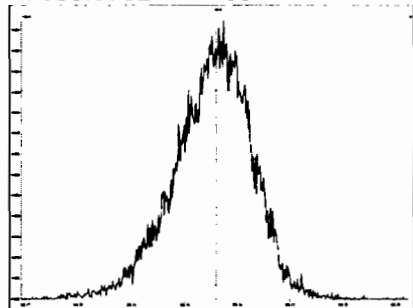
M 342.9792 R 11417



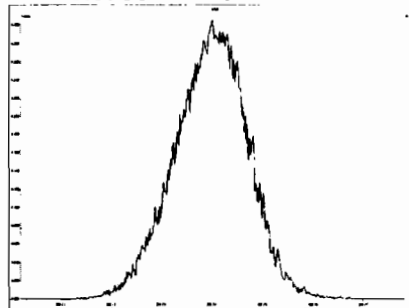
M 354.9792 R 11627



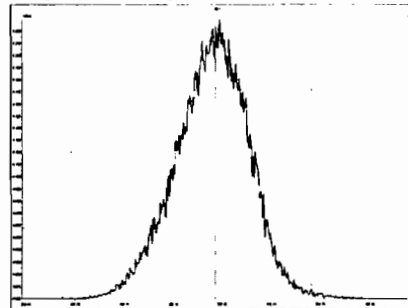
M 366.9792 R 11064



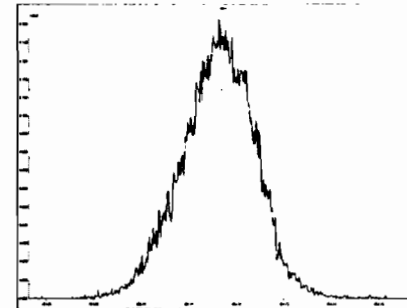
M 380.9760 R 11313



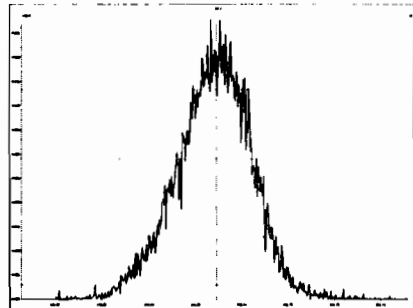
M 392.9760 R 11209



M 404.9760 R 11262



M 416.9760 R 11210



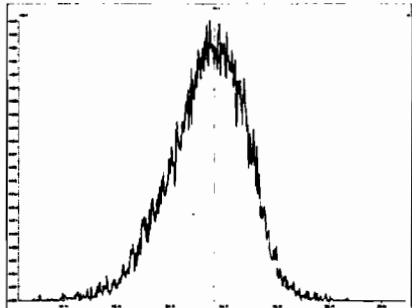
**Experiment Calibration Report**

**MassLynx 4.1 SCN815**

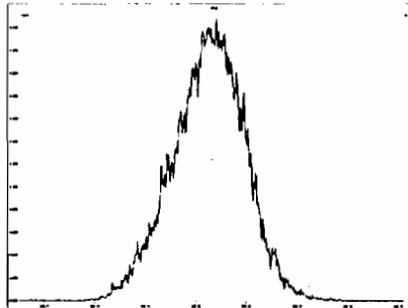
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

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

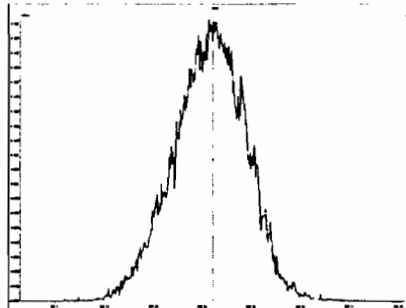
M 366.9792 R 11259



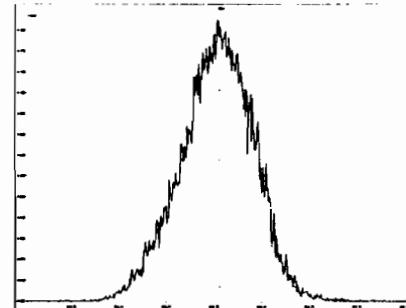
M 380.9760 R 11738



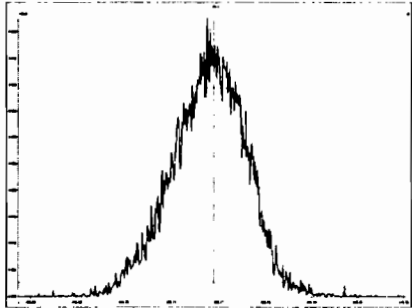
M 392.9760 R 11627



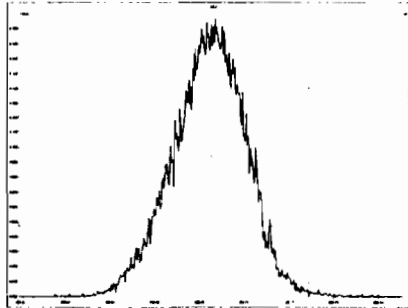
M 404.9760 R 11365



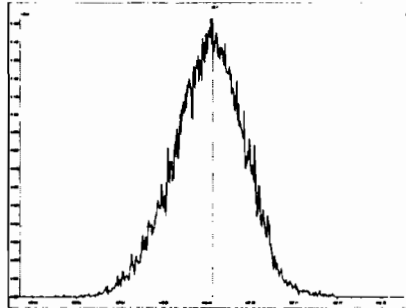
M 416.9760 R 12019



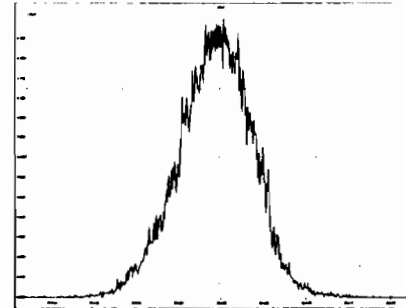
M 430.9728 R 11159



M 442.9728 R 11521



M 454.9728 R 11159



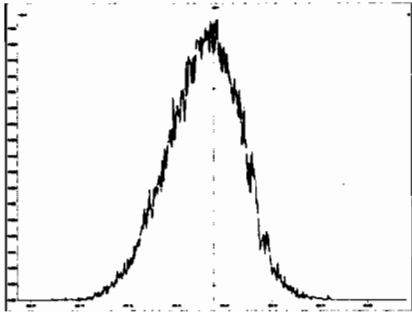
**Experiment Calibration Report**

**MassLynx 4.1 SCN815**

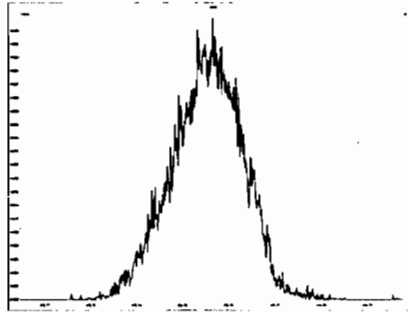
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

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

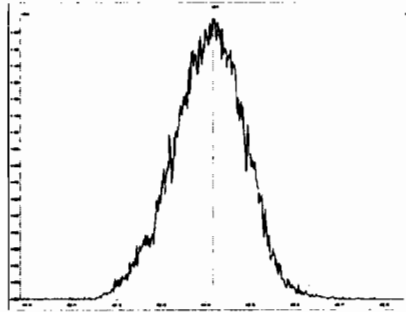
M 404.9760 R 11519



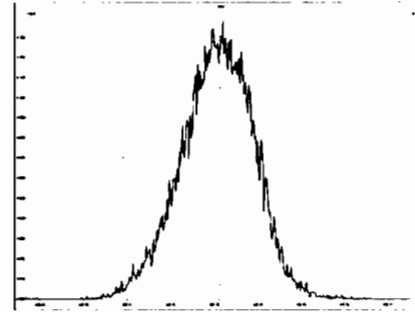
M 416.9760 R 11905



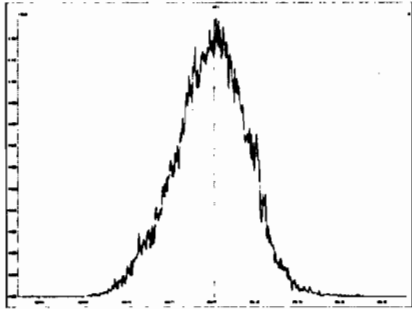
M 430.9728 R 11627



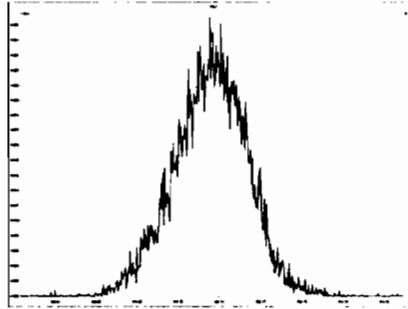
M 442.9728 R 11259



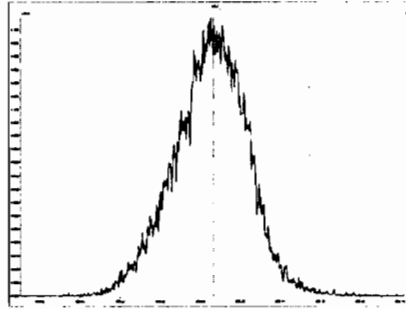
M 454.9728 R 11682



M 466.9728 R 12197



M 480.9696 R 11416



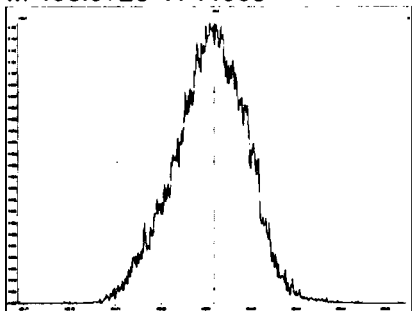
Experiment Calibration Report

MassLynx 4.1 SCN815

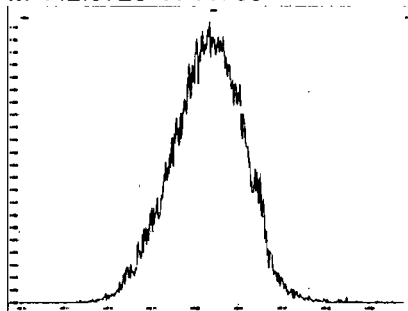
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

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

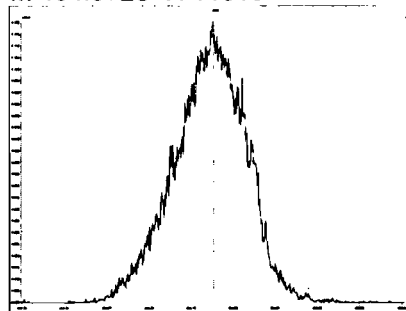
M 430.9728 R 11958



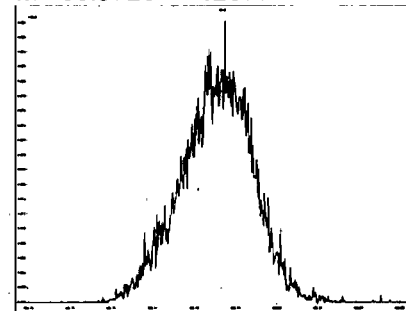
M 442.9728 R 11736



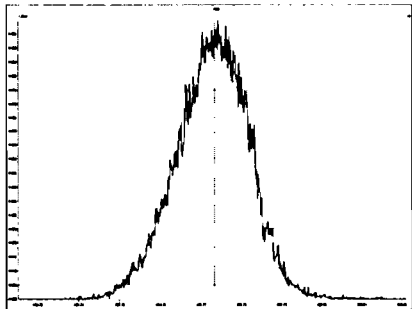
M 454.9728 R 11310



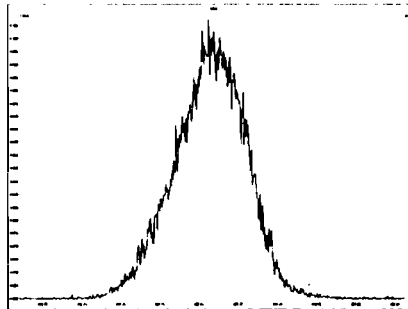
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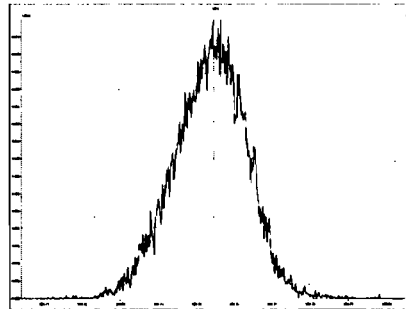
M 480.9696 R 11213



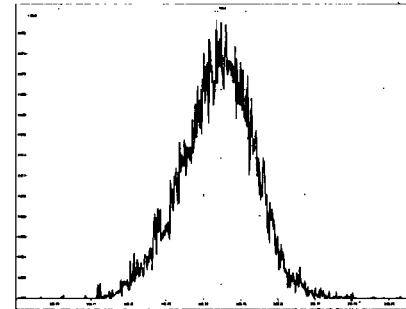
M 492.9696 R 11906



M 504.9696 R 11848



M 516.9697 R 12256



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST200603 D1-1

**Reviewed By:** C. T. O'G/04/2020

*Initials & Date*

**End Calibration ID:** NA

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

	<u>Beg.</u>	<u>End</u>
<b>Mass resolution <math>\geq</math></b>	<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		
<b>Intergrated peaks display correctly?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> NA
<b>GC Break &lt;20%</b>		<input checked="" type="checkbox"/> NA
<b><u>8280 CS1 End Standard:</u></b>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input checked="" type="checkbox"/> NA

**Comments:**

Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_1.qld

Last Altered: Wednesday, June 03, 2020 15:25:09 Pacific Daylight Time

Printed: Wednesday, June 03, 2020 15:26:50 Pacific Daylight Time

*DB 6/3/20 CT 06/04/2020*

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24

Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200603D1\_1, Date: 03-Jun-2020, Time: 14:40:30, ID: ST200603D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	7.27e3	0.77	NO	0.987	1.000	26.097	26.10	1.001	1.001	9.3791	93.8 <i>78-129</i>	1.67	9.38
2	2 1,2,3,7,8-PeCDD	2.95e4	0.60	NO	0.982	1.000	30.650	30.65	1.001	1.001	42.932	85.9 <i>78-130</i>	55.4	42.9
3	3 1,2,3,4,7,8-HxCDD	2.56e4	1.22	NO	1.17	1.000	33.949	33.95	1.000	1.000	46.774	93.5 <i>78-128</i>	0.399	46.8
4	4 1,2,3,6,7,8-HxCDD	2.69e4	1.25	NO	1.04	1.000	34.037	34.06	1.000	1.001	43.178	86.4 <i>78-128</i>	0.391	43.2
5	5 1,2,3,7,8,9-HxCDD	2.55e4	1.22	NO	1.00	1.000	34.379	34.34	1.001	1.000	46.677	93.4 <i>82-122</i>	0.446	46.7
6	6 1,2,3,4,6,7,8-HpCDD	2.07e4	1.06	NO	0.992	1.000	37.824	37.82	1.000	1.000	47.296	94.6 <i>86-116</i>	0.365	47.3
7	7 OCDD	3.44e4	0.91	NO	1.04	1.000	41.060	41.07	1.000	1.000	92.421	92.4 <i>79-126</i>	0.399	92.4
8	8 2,3,7,8-TCDF	1.03e4	0.75	NO	0.882	1.000	25.296	25.30	1.001	1.001	9.4407	94.4 <i>84-120</i>	0.0956	9.44
9	9 1,2,3,7,8-PeCDF	4.75e4	1.64	NO	1.05	1.000	29.461	29.46	1.001	1.001	42.387	84.8 <i>82-120</i>	0.114	42.4
10	10 2,3,4,7,8-PeCDF	4.78e4	1.62	NO	1.06	1.000	30.377	30.35	1.001	1.000	43.972	87.9 <i>82-120</i>	0.111	44.0
11	11 1,2,3,4,7,8-HxCDF	4.02e4	1.25	NO	1.08	1.000	33.050	33.06	1.000	1.000	49.087	98.2 <i>90-112</i>	0.268	49.1
12	12 1,2,3,6,7,8-HxCDF	4.30e4	1.24	NO	1.04	1.000	33.181	33.19	1.000	1.001	47.921	95.8 <i>88-114</i>	0.268	47.9
13	13 2,3,4,6,7,8-HxCDF	4.17e4	1.25	NO	1.11	1.000	33.797	33.78	1.001	1.001	50.312	101 <i>88-114</i>	0.299	50.3
14	14 1,2,3,7,8,9-HxCDF	3.10e4	1.25	NO	1.06	1.000	34.707	34.73	1.000	1.001	47.350	94.7 <i>90-112</i>	0.398	47.3
15	15 1,2,3,4,6,7,8-HpCDF	3.13e4	1.03	NO	1.13	1.000	36.576	36.55	1.001	1.000	46.634	93.3 <i>90-110</i>	0.362	46.6
16	16 1,2,3,4,7,8,9-HpCDF	2.49e4	1.05	NO	1.33	1.000	38.339	38.36	1.000	1.001	46.951	93.9 <i>86-116</i>	0.372	47.0
17	17 OCDF	4.19e4	0.89	NO	0.933	1.000	41.280	41.29	1.000	1.000	100.15	100 <i>63-159</i>	0.375	100
18	18 13C-2,3,7,8-TCDD	7.86e4	0.79	NO	1.21	1.000	26.163	26.07	1.026	1.022	86.920	86.9 <i>82-121</i>	0.856	
19	19 13C-1,2,3,7,8-PeCDD	6.99e4	0.58	NO	0.996	1.000	30.651	30.63	1.202	1.201	93.665	93.7 <i>62-160</i>	0.301	
20	20 13C-1,2,3,4,7,8-HxCDD	4.67e4	1.29	NO	0.679	1.000	33.924	33.94	1.014	1.014	93.056	93.1 <i>85-117</i>	0.549	
21	21 13C-1,2,3,6,7,8-HxCDD	6.01e4	1.25	NO	0.850	1.000	34.035	34.04	1.017	1.017	95.752	95.8 <i>85-118</i>	0.438	
22	22 13C-1,2,3,7,8,9-HxCDD	5.44e4	1.30	NO	0.798	1.000	34.306	34.34	1.025	1.027	92.206	92.2 <i>85-118</i>	0.467	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.41e4	1.09	NO	0.697	1.000	37.772	37.81	1.129	1.130	85.503	85.5 <i>72-138</i>	0.667	
24	24 13C-OCDD	7.20e4	0.87	NO	0.579	1.000	40.796	41.06	1.219	1.227	168.10	84.0 <i>48-207</i>	0.758	
25	25 13C-2,3,7,8-TCDF	1.24e5	0.81	NO	1.13	1.000	25.245	25.27	0.990	0.991	95.958	96.0 <i>71-140</i>	0.386	
26	26 13C-1,2,3,7,8-PeCDF	1.07e5	1.58	NO	0.996	1.000	29.470	29.44	1.156	1.155	93.746	93.7 <i>76-130</i>	0.307	
27	27 13C-2,3,4,7,8-PeCDF	1.03e5	1.62	NO	0.969	1.000	30.370	30.35	1.191	1.190	92.362	92.4 <i>77-130</i>	0.315	
28	28 13C-1,2,3,4,7,8-HxCDF	7.57e4	0.49	NO	1.06	1.000	33.054	33.05	0.988	0.988	96.773	96.8 <i>76-131</i>	0.495	
29	29 13C-1,2,3,6,7,8-HxCDF	8.60e4	0.50	NO	1.18	1.000	33.188	33.17	0.992	0.991	98.970	99.0 <i>70-143</i>	0.446	
30	30 13C-2,3,4,6,7,8-HxCDF	7.47e4	0.50	NO	1.06	1.000	33.760	33.76	1.009	1.009	95.571	95.6 <i>73-137</i>	0.496	
31	31 13C-1,2,3,7,8,9-HxCDF	6.19e4	0.49	NO	0.879	1.000	34.660	34.71	1.036	1.037	95.272	95.3 <i>74-135</i>	0.596	



Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_1.qld

Last Altered: Wednesday, June 03, 2020 15:25:09 Pacific Daylight Time

Printed: Wednesday, June 03, 2020 15:26:50 Pacific Daylight Time

Name: 200603D1\_1, Date: 03-Jun-2020, Time: 14:40:30, ID: ST200603D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	5.95e4	0.43	NO	0.893	1.000	36.366	36.54	1.087	1.092	90.192	90.2	78-129	0.506
33	13C-1,2,3,4,7,8,9-HpCDF	3.98e4	0.43	NO	0.613	1.000	38.374	38.34	1.147	1.146	87.843	87.8	77-129	0.736
34	13C-OCDF	8.96e4	0.86	NO	0.741	1.000	40.950	41.28	1.224	1.234	163.53	81.8	48-207	0.526
35	37Cl-2,3,7,8-TCDD	7.95e3			1.18	1.000	26.160	26.08	1.026	1.023	8.9973	90.0	79-127	0.0920
36	13C-1,2,3,4-TCDD	7.49e4	0.76	NO	1.00	1.000	25.480	25.50	1.000	1.000	100.00	100		1.03
37	13C-1,2,3,4-TCDF	1.15e5	0.81	NO	1.00	1.000	24.020	24.03	1.000	1.000	100.00	100		0.435
38	13C-1,2,3,4,6,9-HxCDF	7.39e4	0.50	NO	1.00	1.000	33.530	33.46	1.000	1.000	100.00	100		0.524

Dataset: Untitled

Last Altered: Thursday, June 04, 2020 09:17:14 Pacific Daylight Time

Printed: Thursday, June 04, 2020 09:17:41 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CPSM.mdb 18 May 2020 14:57:34

Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200603D1\_1, Date: 03-Jun-2020, Time: 14:40:30, ID: ST200603D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	22.64
2	1,2,8,9-TCDD (Last)	26.97
3	1,2,4,7,9-PeCDD (First)	28.60
4	1,2,3,8,9-PeCDD (Last)	31.01
5	1,2,4,6,7,9-HxCDD (First)	32.42
6	1,2,3,7,8,9-HxCDD (Last)	34.34
7	1,2,3,4,6,7,9-HpCDD (First)	36.96
8	1,2,3,4,6,7,8-HpCDD (Last)	37.82
9	1,3,6,8-TCDF (First)	20.49
10	1,2,8,9-TCDF (Last)	27.10
11	1,3,4,6,8-PeCDF (First)	27.06
12	1,2,3,8,9-PeCDF (Last)	31.23
13	1,2,3,4,6,8-HxCDF (First)	31.89
14	1,2,3,7,8,9-HxCDF (Last)	34.73
15	1,2,3,4,6,7,8-HpCDF (First)	36.55
16	1,2,3,4,7,8,9-HpCDF (Last)	38.36

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Thursday, June 04, 2020 09:16:37 Pacific Daylight Time

Printed: Thursday, June 04, 2020 09:16:54 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24

Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

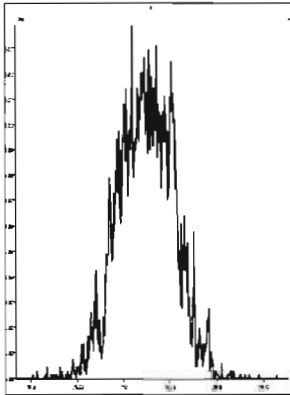
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200603D1_1	ST200603D1-1 1613 CS3 19L2305	03-Jun-20	14:40:30
2	200603D1_2	SOLVENT BLANK	03-Jun-20	15:25:37
3	200603D1_3	B0E0146-BS1 OPR 1	03-Jun-20	16:10:48
4	200603D1_4	SOLVENT BLANK	03-Jun-20	16:55:56
5	200603D1_5	B0E0146-BLK1 Method Blank 1	03-Jun-20	17:41:03
6	200603D1_6	2000945-01 PDI-146SC-A-00-01-200426 14.29	03-Jun-20	18:26:12
7	200603D1_7	2000945-02 PDI-146SC-A-01-02-200426 12.02	03-Jun-20	19:11:20
8	200603D1_8	B0D0306-DUP1 Duplicate 11.39	03-Jun-20	19:56:27
9	200603D1_9	2000945-03 PDI-146SC-A-02-03-200426 12.11	03-Jun-20	20:41:35
10	200603D1_10	2000945-04 PDI-146SC-A-03-04-200426 12.98	03-Jun-20	21:26:43
11	200603D1_11	2000945-05 PDI-146SC-A-04-05-200426 11.68	03-Jun-20	22:11:50
12	200603D1_12	2000945-06 PDI-146SC-A-05-06-200426 12.84	03-Jun-20	22:56:57
13	200603D1_13	2000945-07 PDI-146SC-A-06-07-200426 14.13	03-Jun-20	23:42:05
14	200603D1_14	2000945-08 PDI-146SC-A-07-08-200426 13.17	04-Jun-20	00:27:11
15	200603D1_15	2000996-03RE1 PDI-1054SC-A-09-10-200428...	04-Jun-20	01:12:18

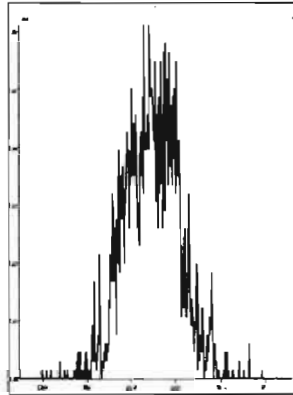
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, June 03, 2020 14:36:15 Pacific Daylight Time

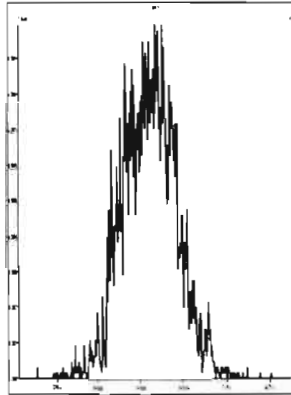
M 292.9824 R 11060



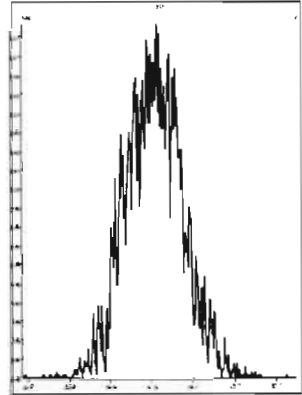
M 304.9824 R 14530



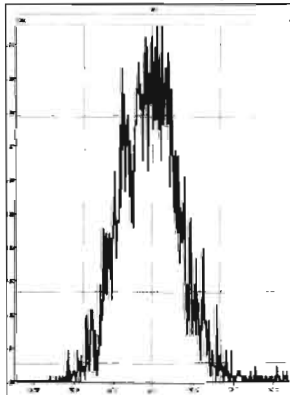
M 318.9792 R 13508



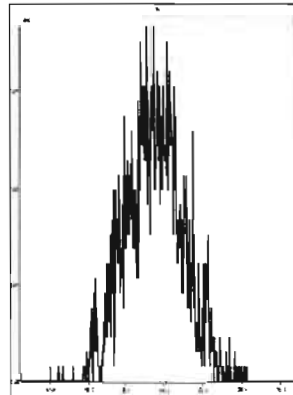
M 330.9792 R 12194



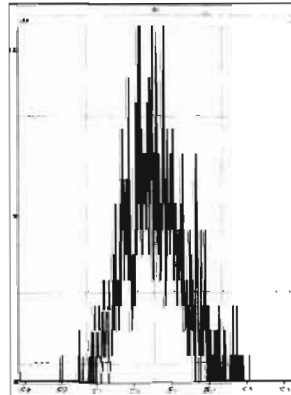
M 342.9792 R 12080



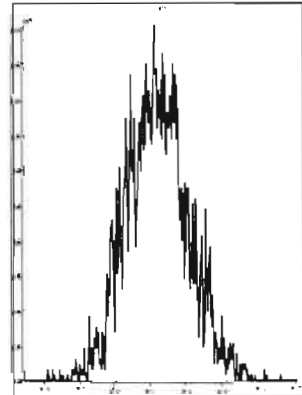
M 354.9792 R 12137



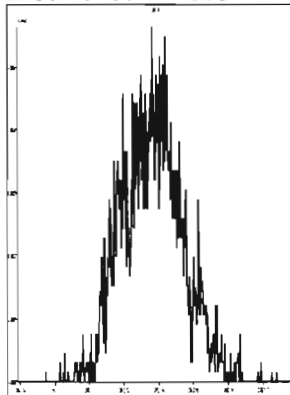
M 366.9792 R 11848



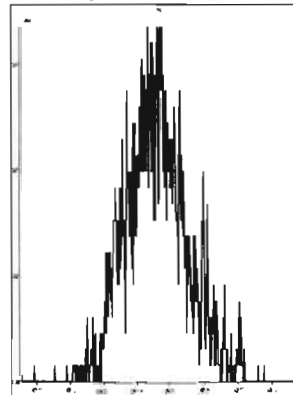
M 380.9760 R 11362



M 392.9760 R 10591



M 404.9760 R 11211



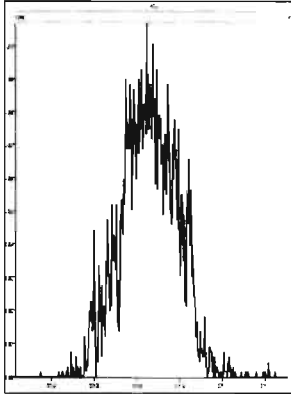
M 416.9760 R 12562



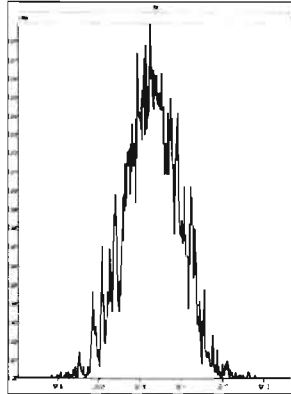
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, June 03, 2020 14:37:09 Pacific Daylight Time

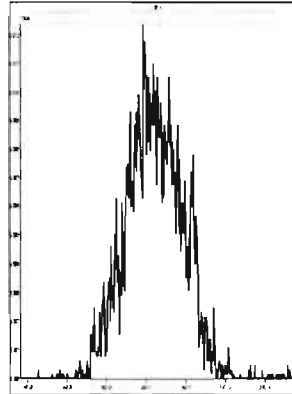
M 318.9792 R 12377



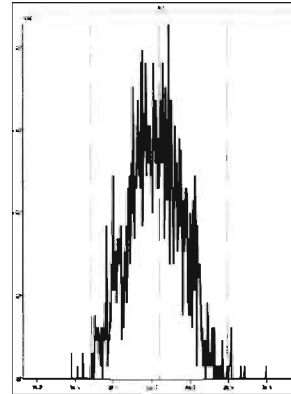
M 330.9792 R 11363



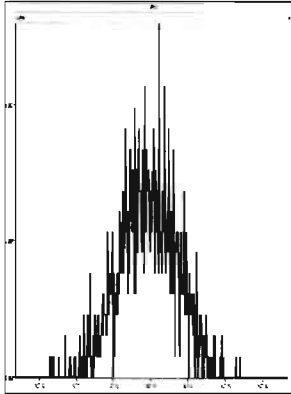
M 342.9792 R 11902



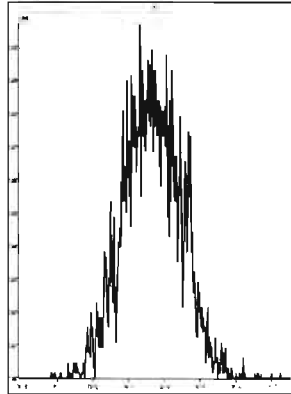
M 354.9792 R 13229



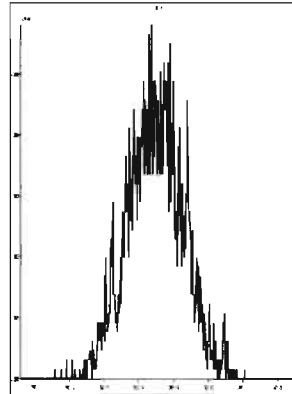
M 366.9792 R 13513



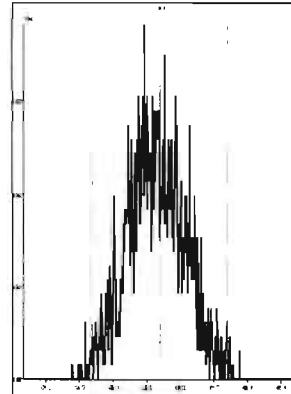
M 380.9760 R 11519



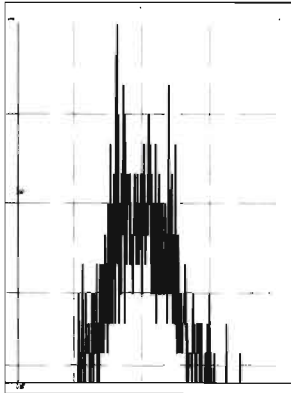
M 392.9760 R 12252



M 404.9760 R 11793



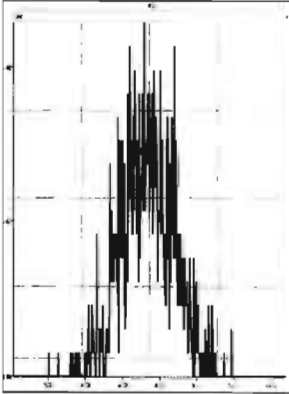
M 416.9760 R 15527



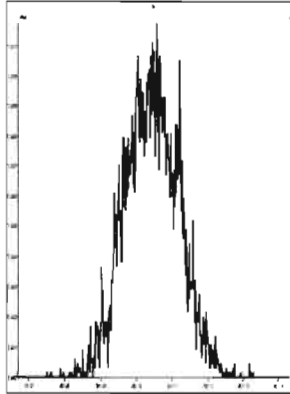
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, June 03, 2020 14:38:18 Pacific Daylight Time

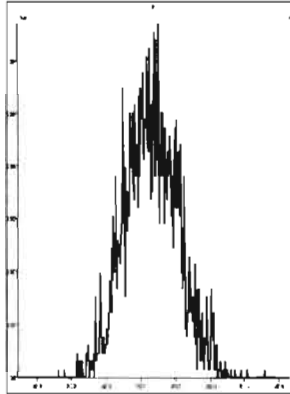
M 366.9792 R 15526



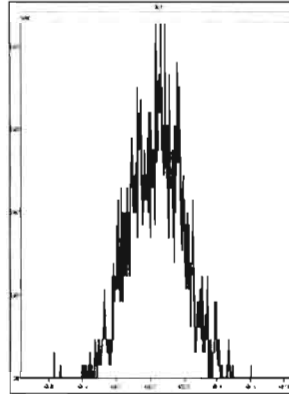
M 380.9760 R 13444



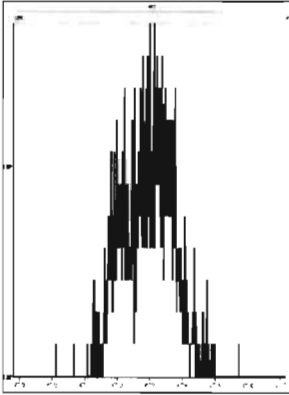
M 392.9760 R 13229



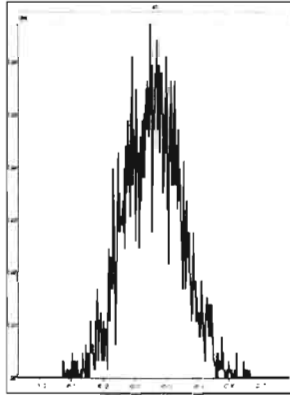
M 404.9760 R 13736



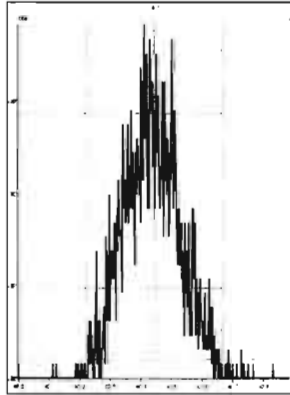
M 416.9760 R 12374



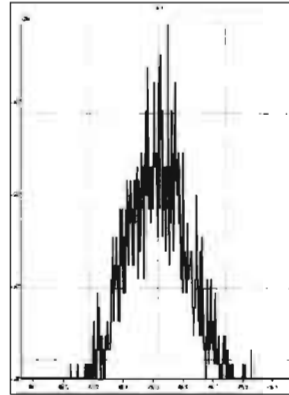
M 430.9728 R 12624



M 442.9728 R 12377



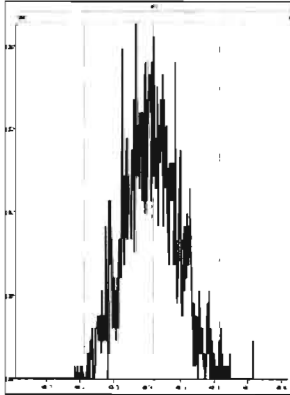
M 454.9728 R 13020



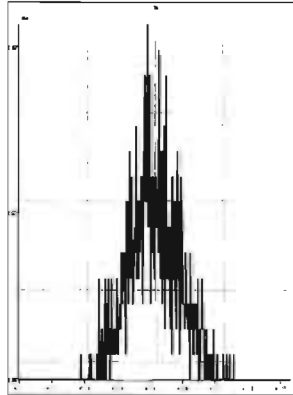
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Printed: Wednesday, June 03, 2020 14:39:00 Pacific Daylight Time

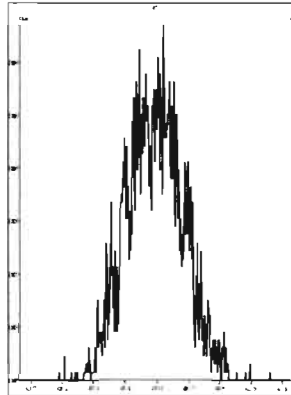
M 404.9760 R 15055



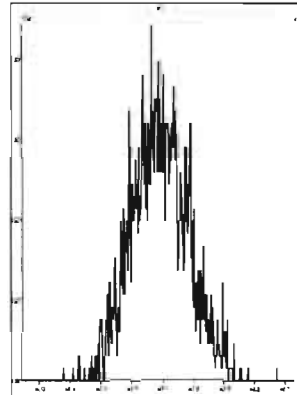
M 416.9760 R 15431



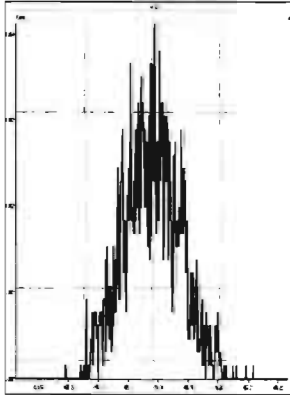
M 430.9728 R 11790



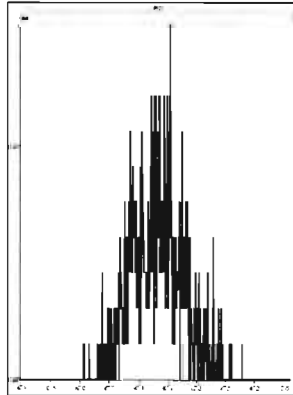
M 442.9728 R 12377



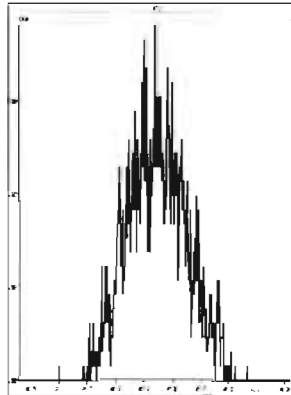
M 454.9728 R 12690



M 466.9728 R 18252



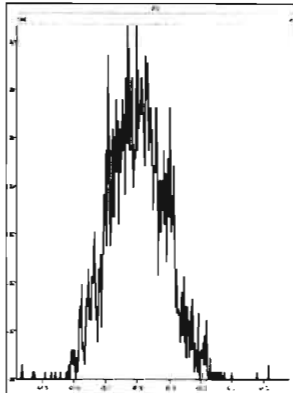
M 480.9696 R 10918



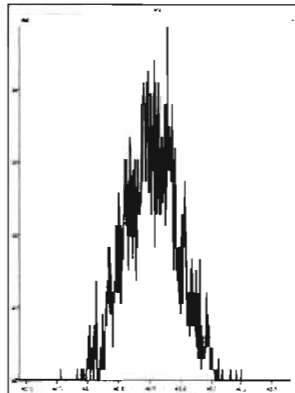
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, June 03, 2020 14:39:40 Pacific Daylight Time

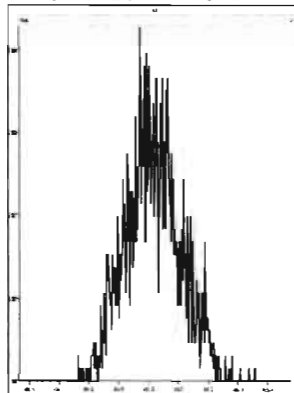
M 430.9728 R 12499



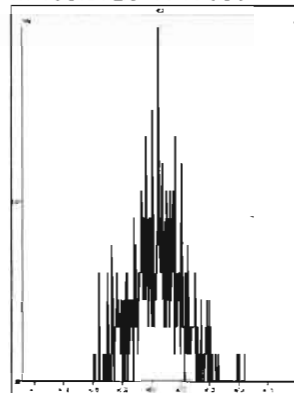
M 442.9728 R 11794



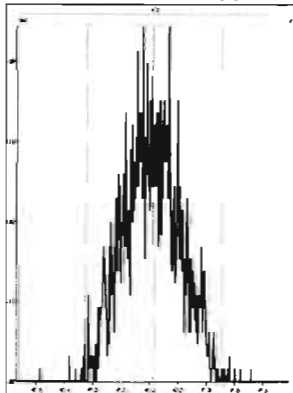
M 454.9728 R 11679



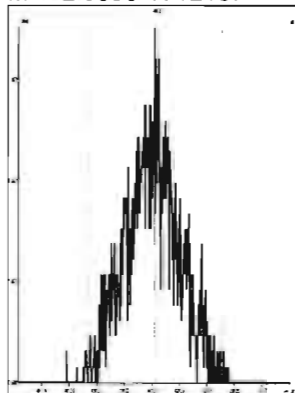
M 466.9728 R 17360



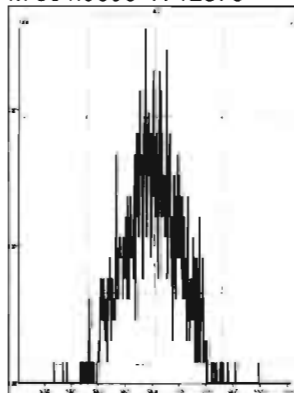
M 480.9696 R 11903



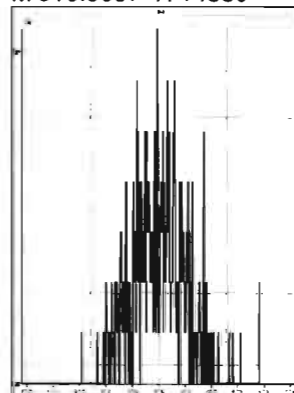
M 492.9696 R 12137



M 504.9696 R 12376



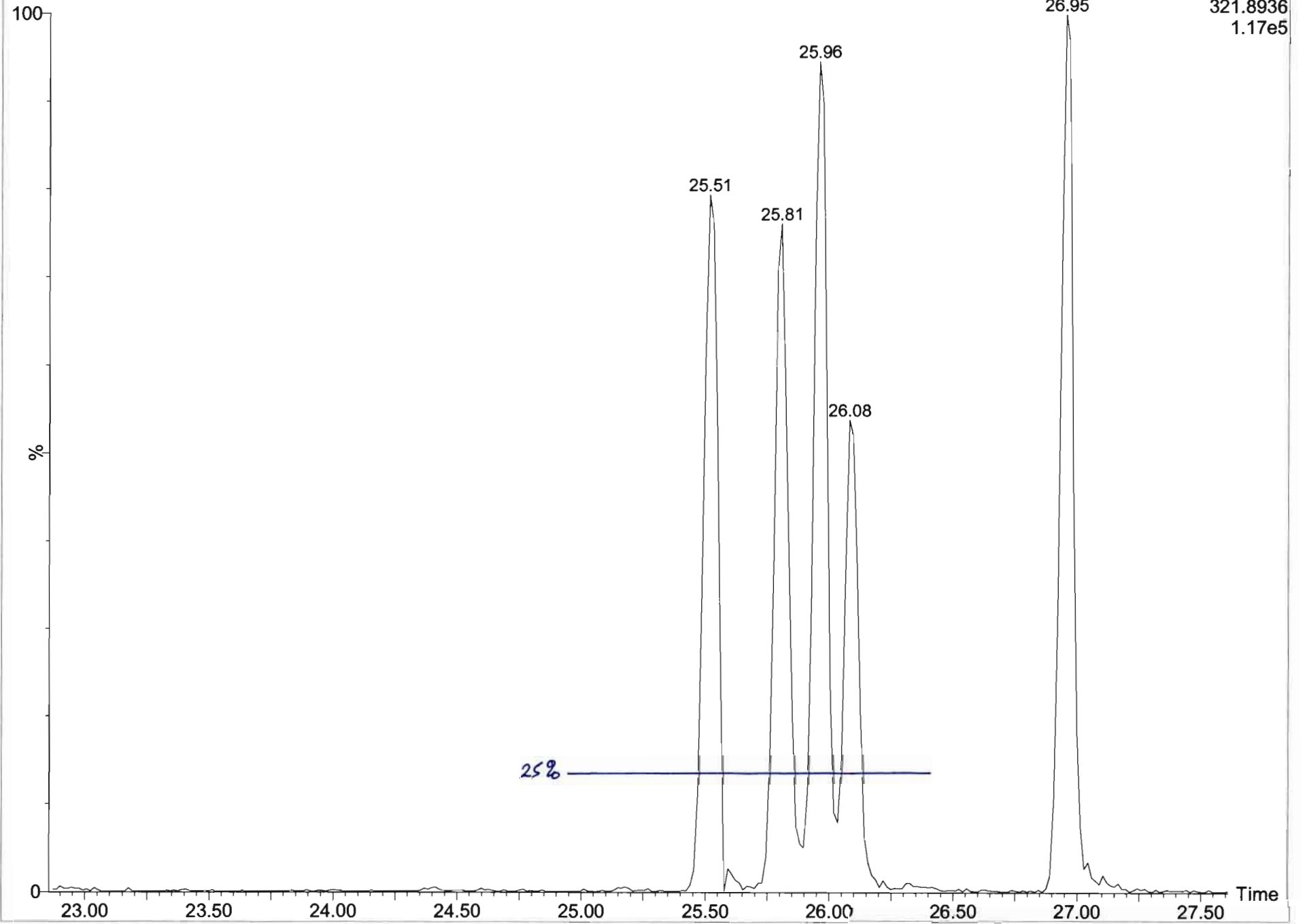
M 516.9697 R 14880





200603D1\_1

1: Voltage SIR 15 Channels EI+  
321.8936  
1.17e5



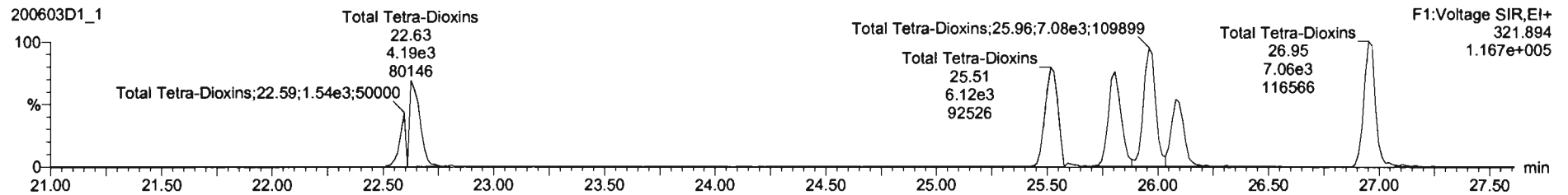
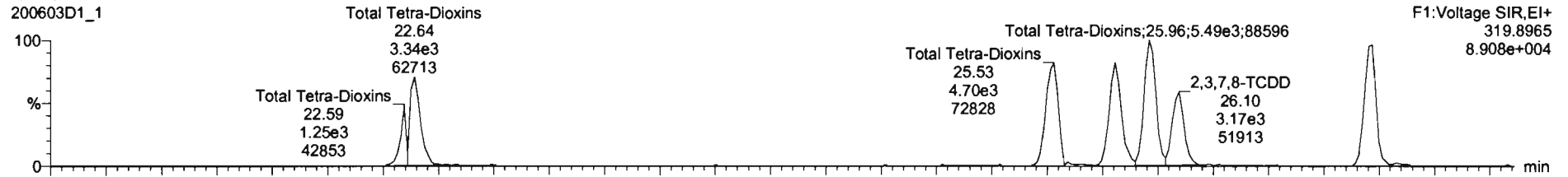
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Last Altered: Wednesday, June 03, 2020 15:25:09 Pacific Daylight Time  
Printed: Wednesday, June 03, 2020 15:27:19 Pacific Daylight Time

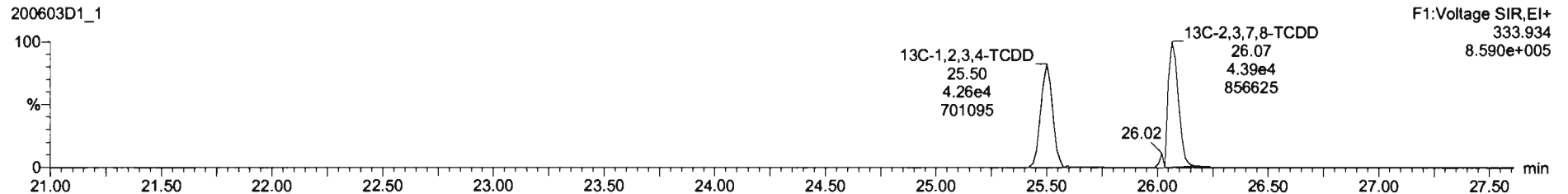
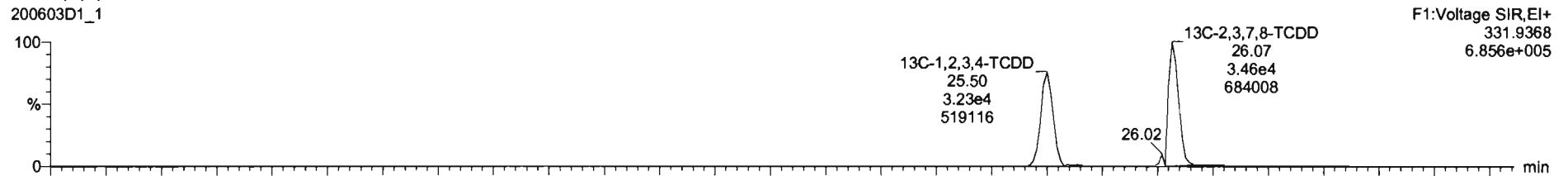
Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24  
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Name: 200603D1\_1, Date: 03-Jun-2020, Time: 14:40:30, ID: ST200603D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



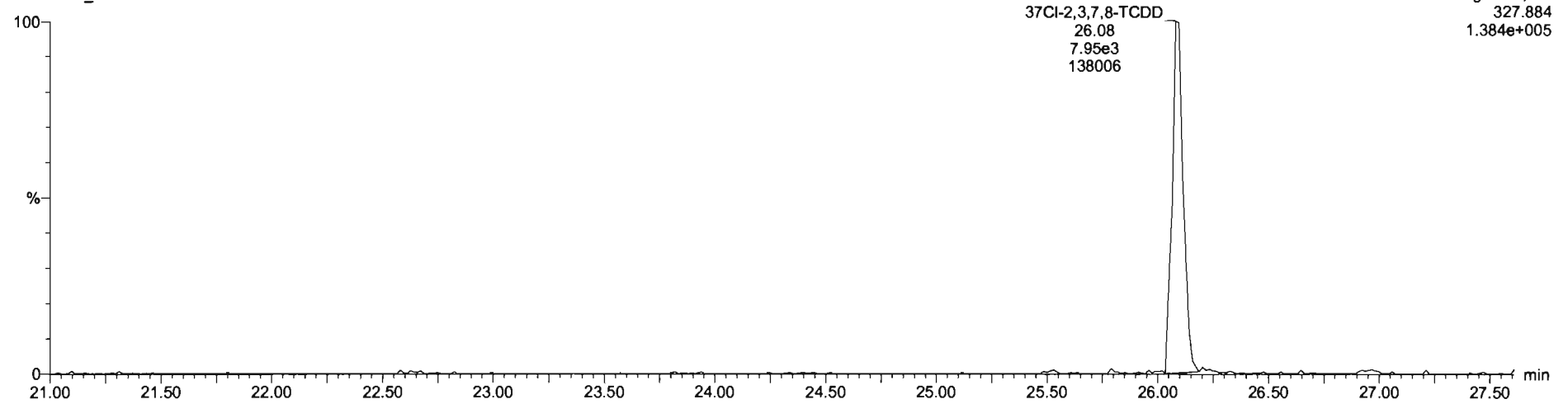
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Name: 200603D1\_1, Date: 03-Jun-2020, Time: 14:40:30, ID: ST200603D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

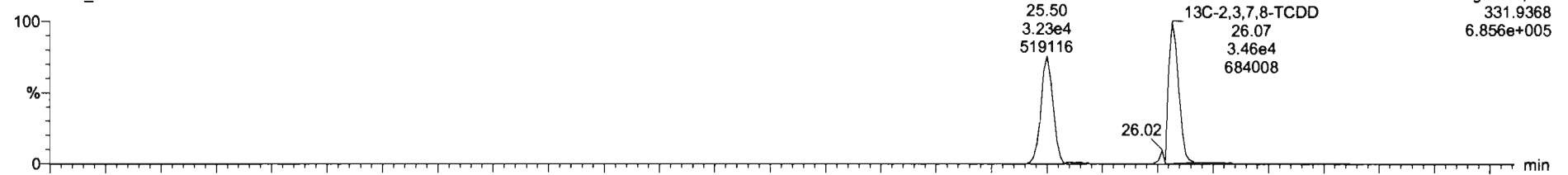
**37Cl-2,3,7,8-TCDD**

200603D1\_1

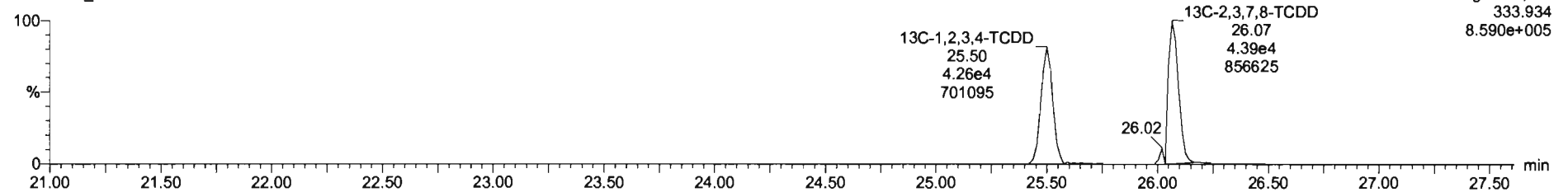


**13C-1,2,3,4-TCDD**

200603D1\_1



200603D1\_1



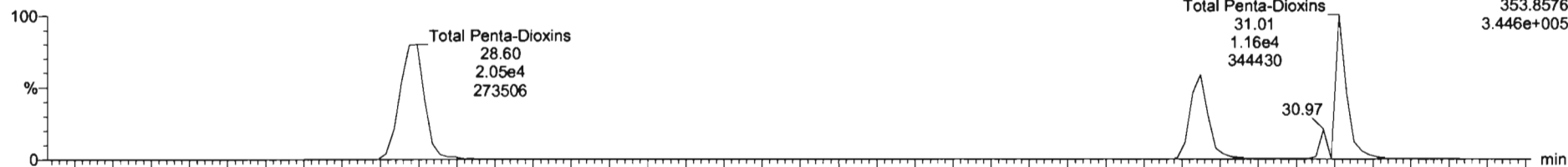
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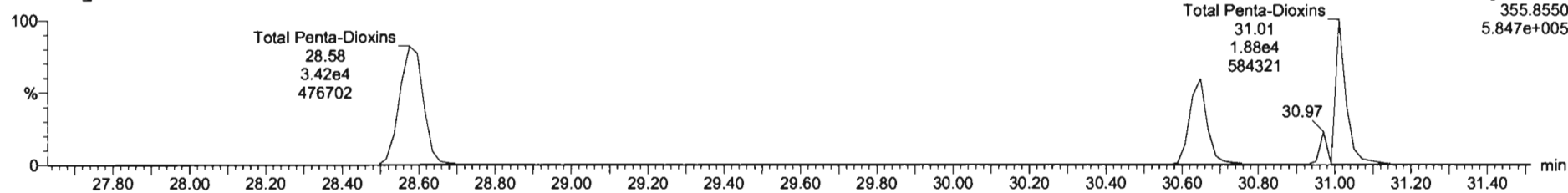
Name: 200603D1\_1, Date: 03-Jun-2020, Time: 14:40:30, ID: ST200603D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

**1,2,3,7,8-PeCDD**

200603D1\_1

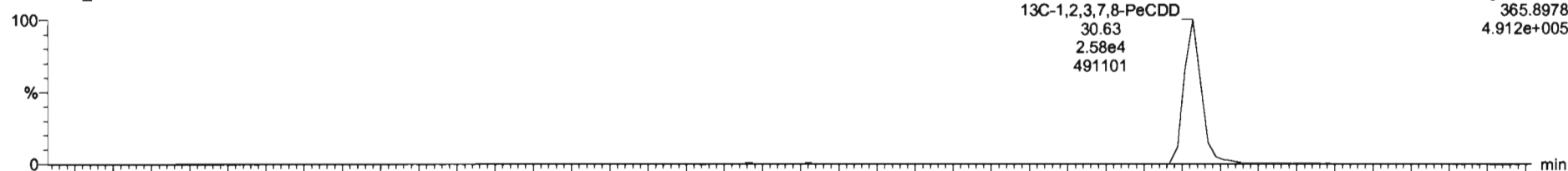


200603D1\_1

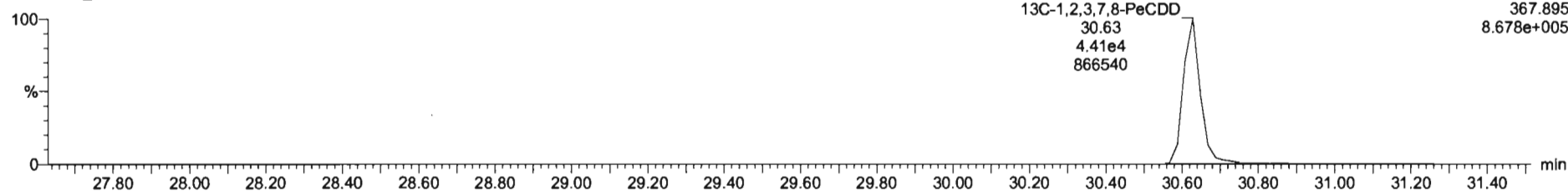


**13C-1,2,3,7,8-PeCDD**

200603D1\_1



200603D1\_1



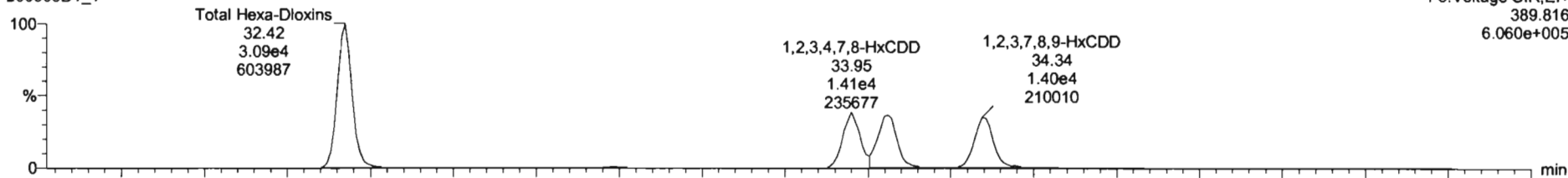
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Last Altered: Wednesday, June 03, 2020 15:25:09 Pacific Daylight Time  
Printed: Wednesday, June 03, 2020 15:27:19 Pacific Daylight Time

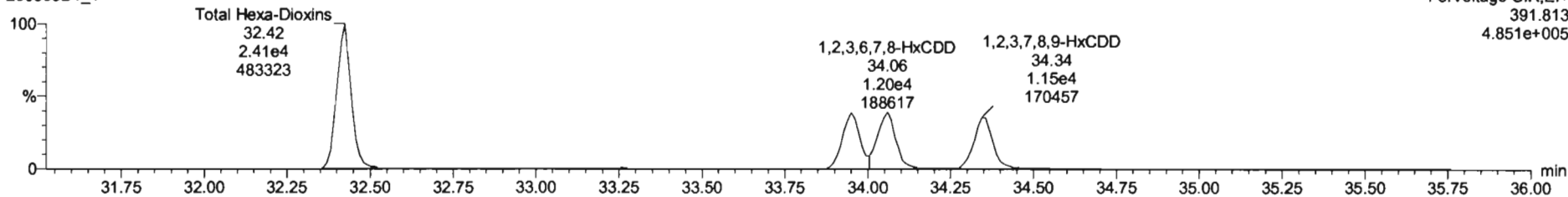
Name: 200603D1\_1, Date: 03-Jun-2020, Time: 14:40:30, ID: ST200603D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200603D1\_1

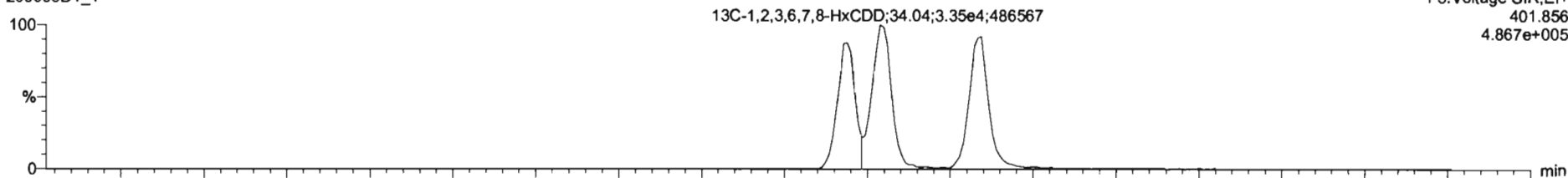


200603D1\_1

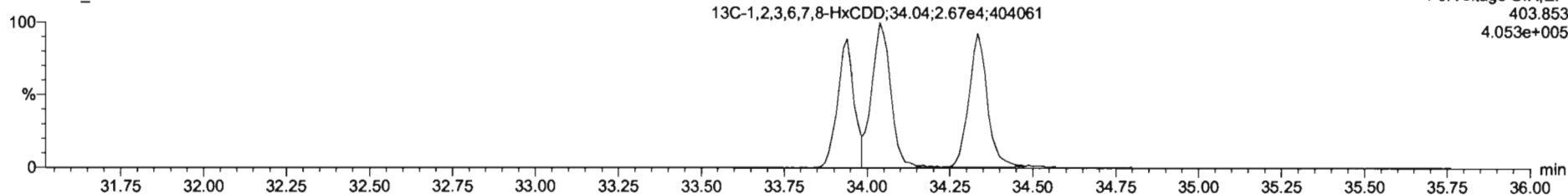


13C-1,2,3,4,7,8-HxCDD

200603D1\_1



200603D1\_1



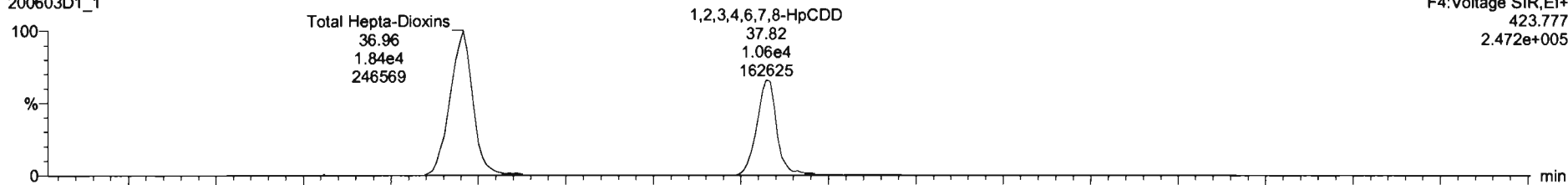
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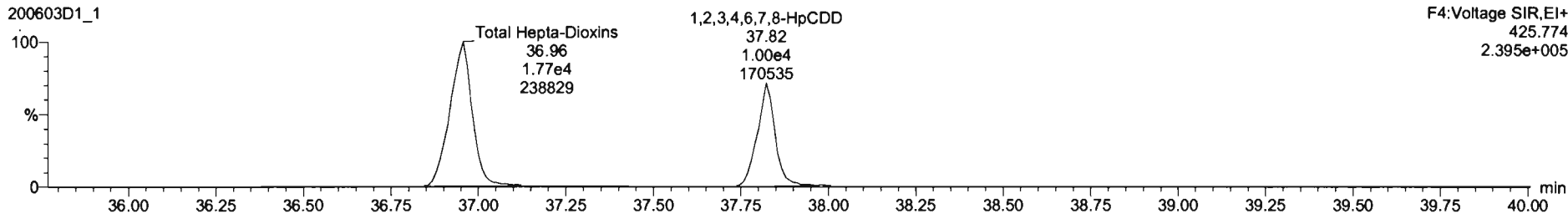
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1,2,3,4,6,7,8-HpCDD

200603D1\_1

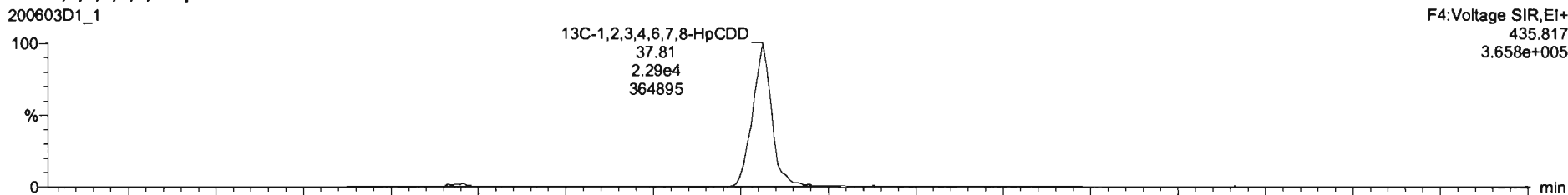


200603D1\_1

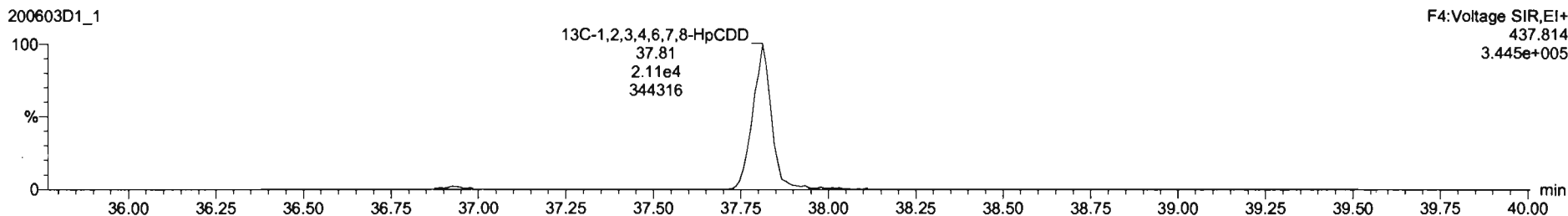


13C-1,2,3,4,6,7,8-HpCDD

200603D1\_1



200603D1\_1



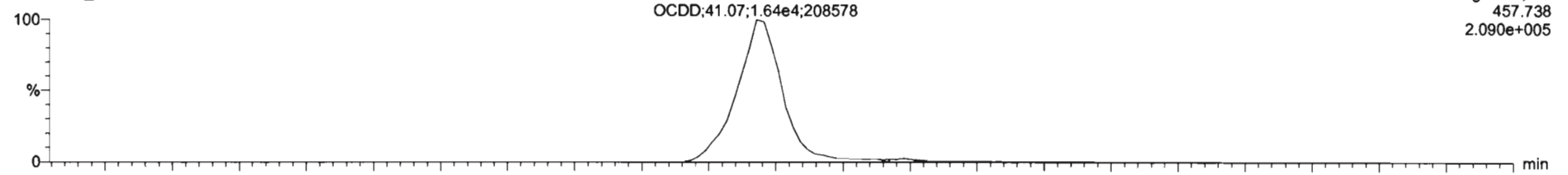
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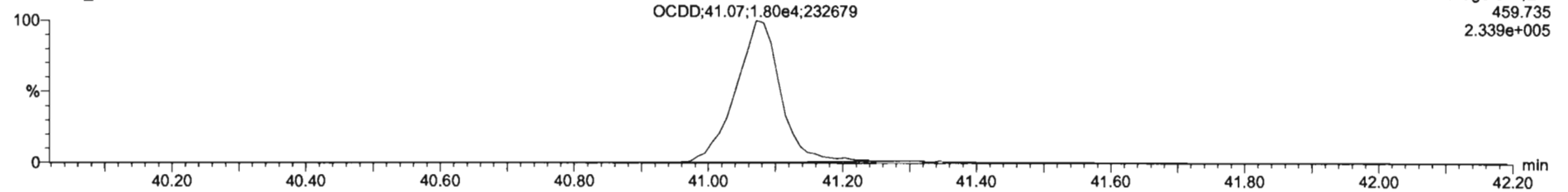
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**OCDD**

200603D1\_1

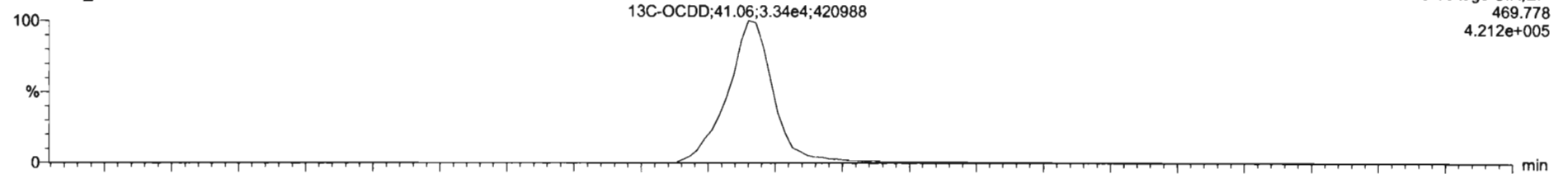


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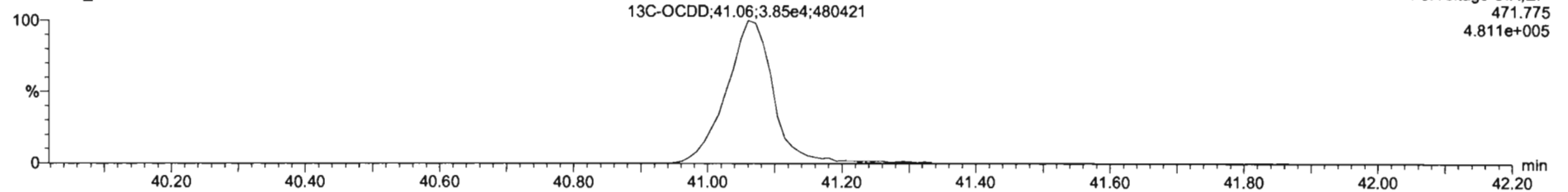


**13C-OCDD**

200603D1\_1



200603D1\_1

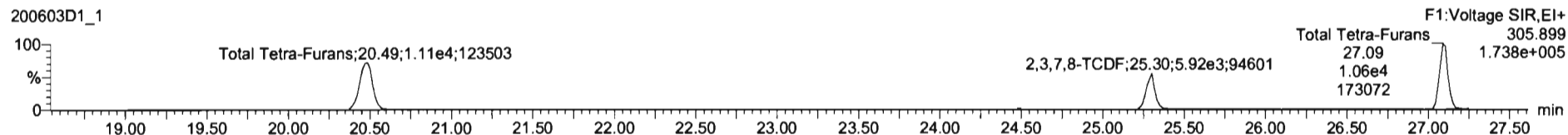
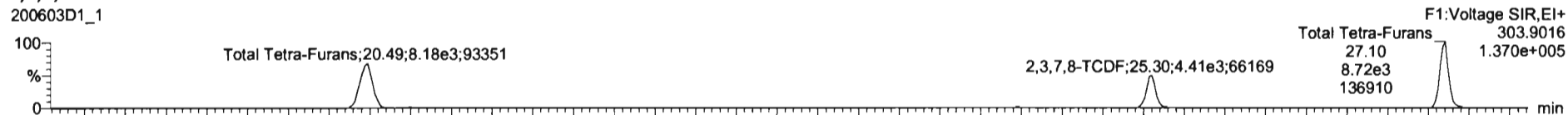


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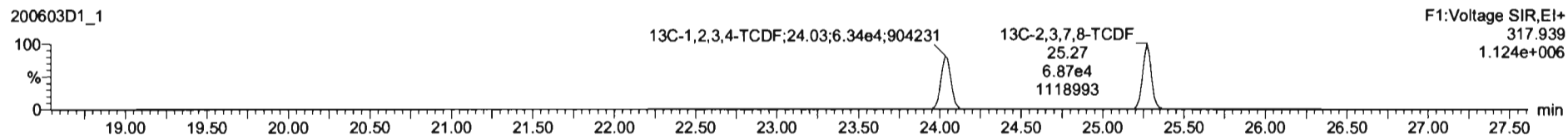
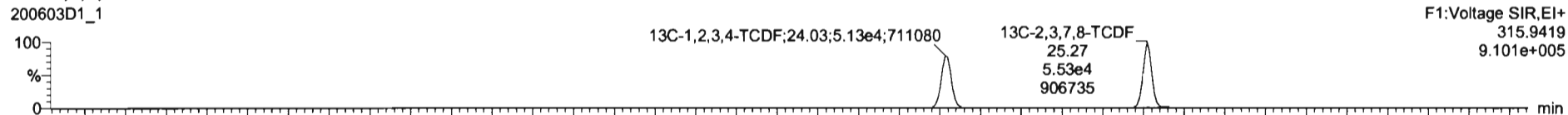
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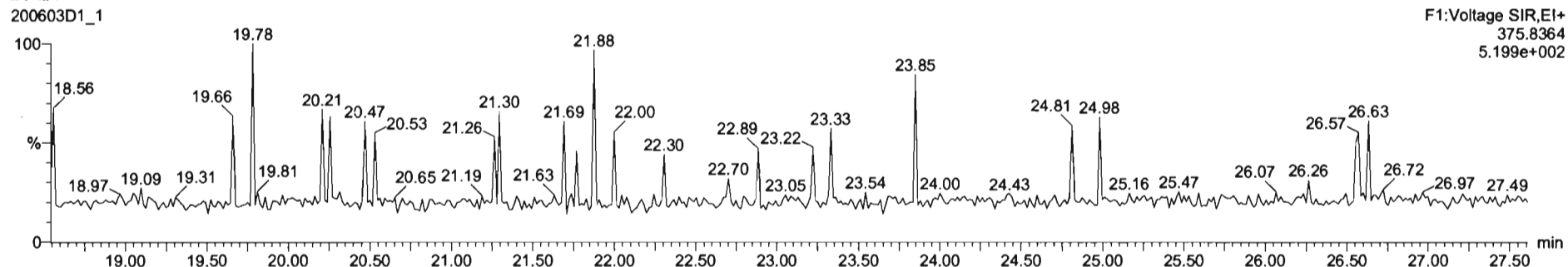
**2,3,7,8-TCDF**



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



**DPE1**





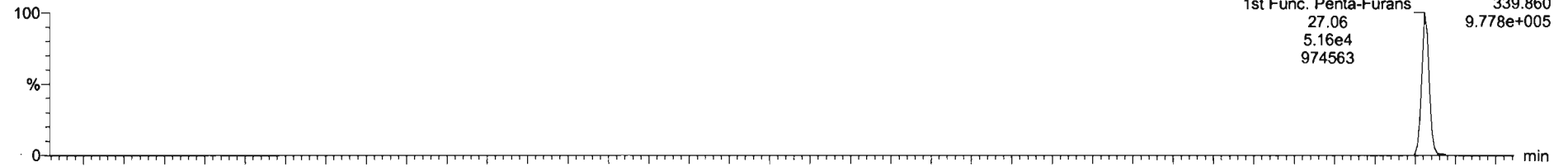
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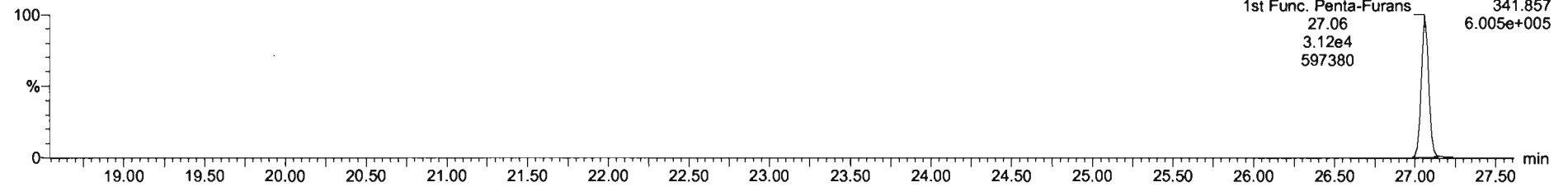
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1st Func. Penta-Furans

200603D1\_1

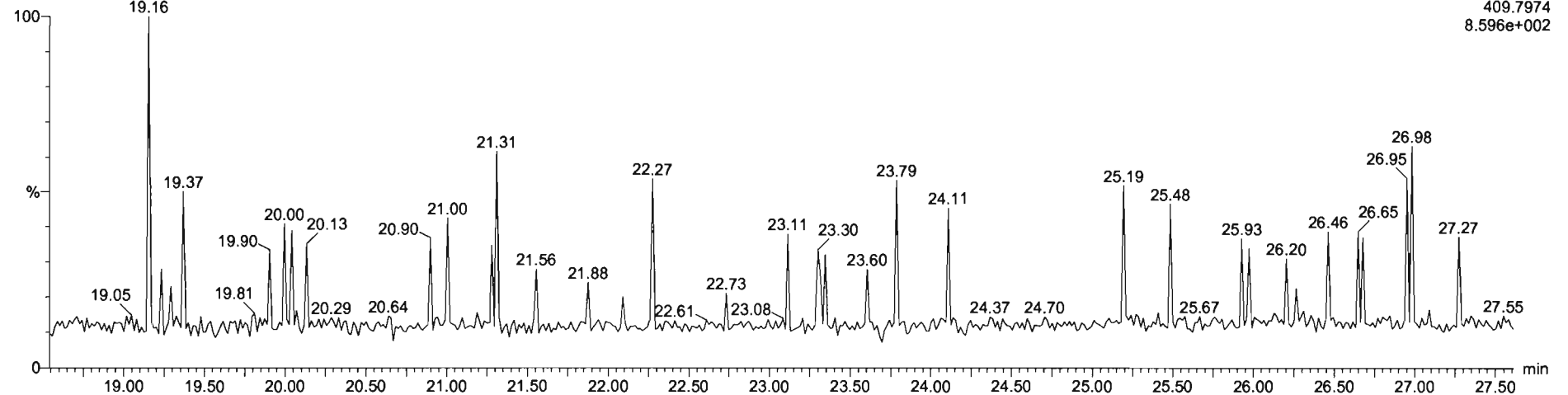


200603D1\_1



DPE6

200603D1\_1

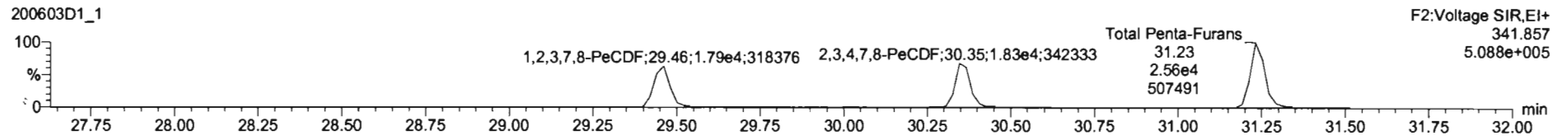
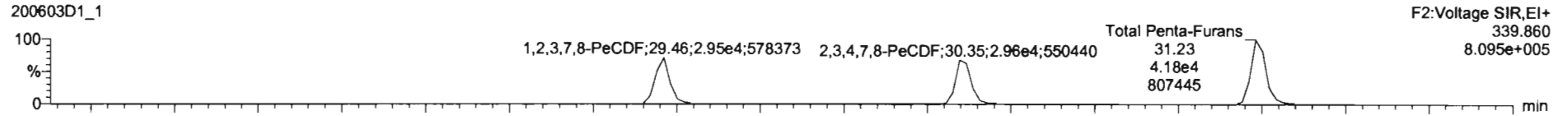


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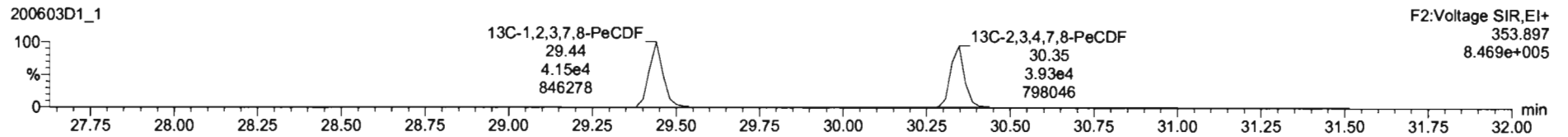
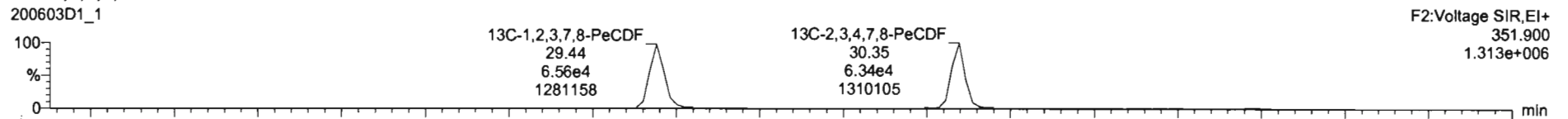
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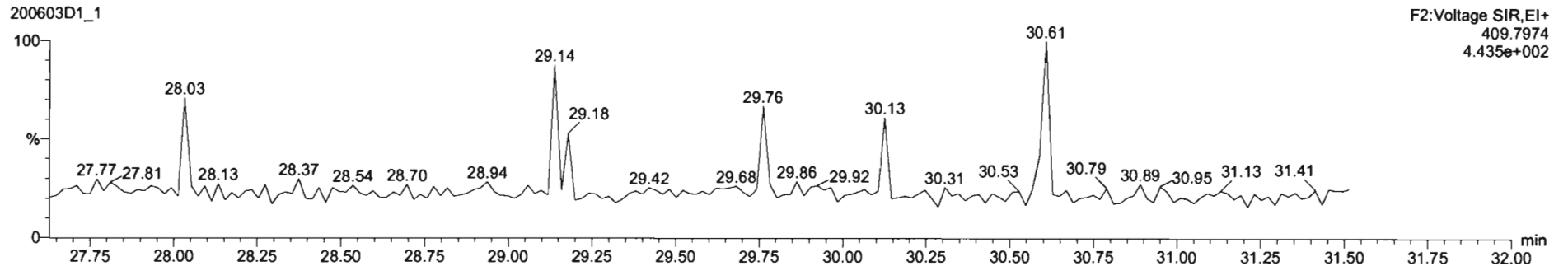
**1,2,3,7,8-PeCDF**



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



**DPE2**

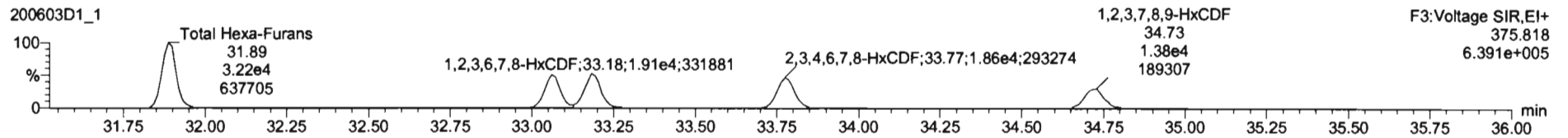
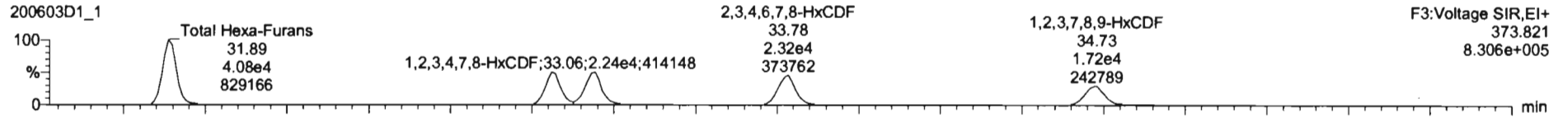


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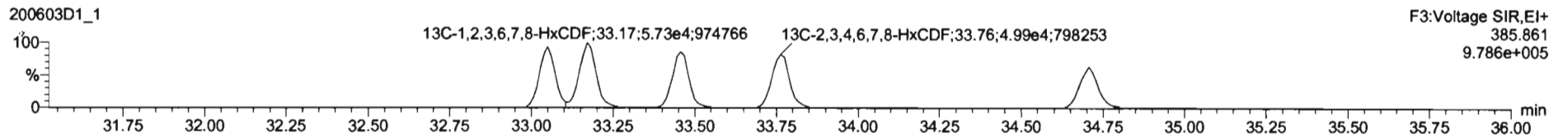
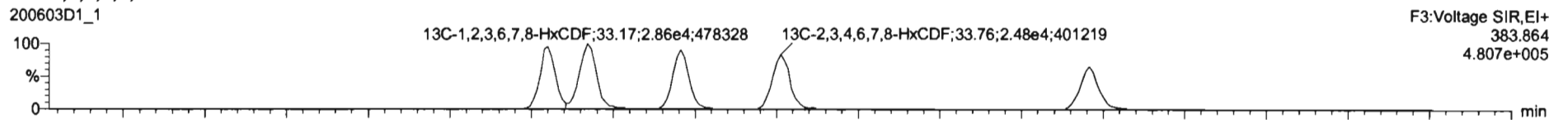
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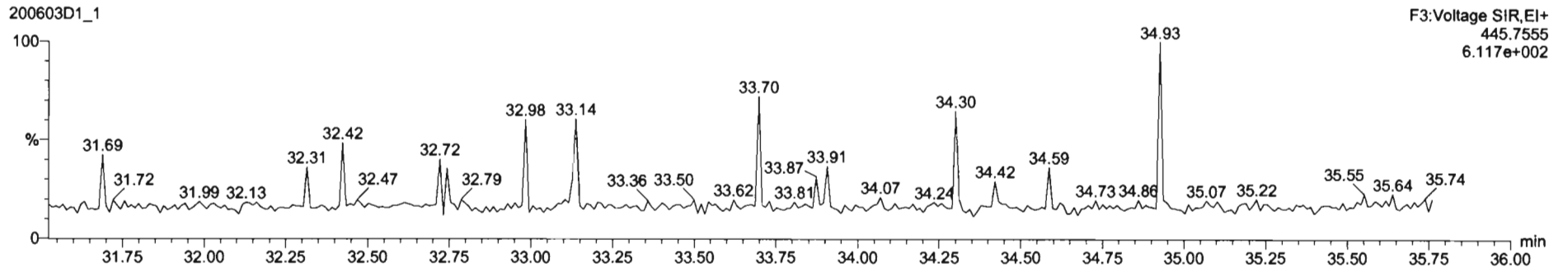
1,2,3,4,7,8-HxCDF



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



DPE3

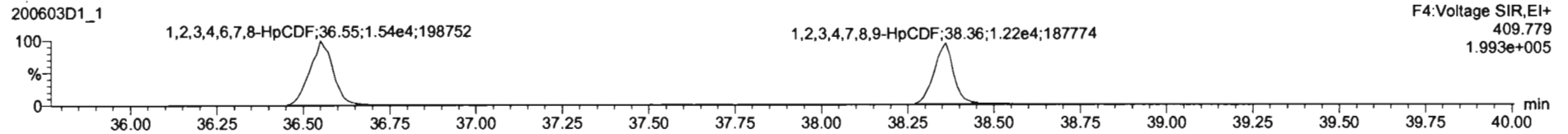
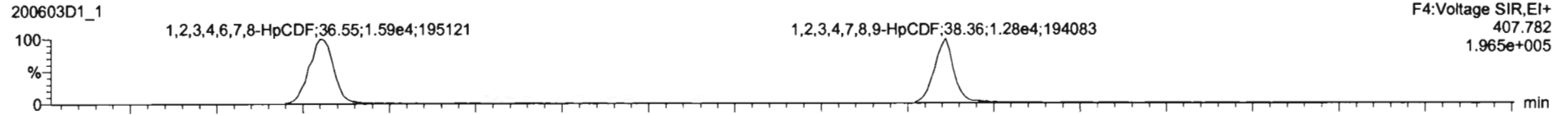


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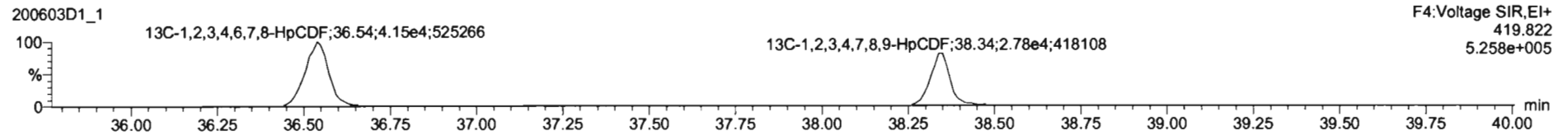
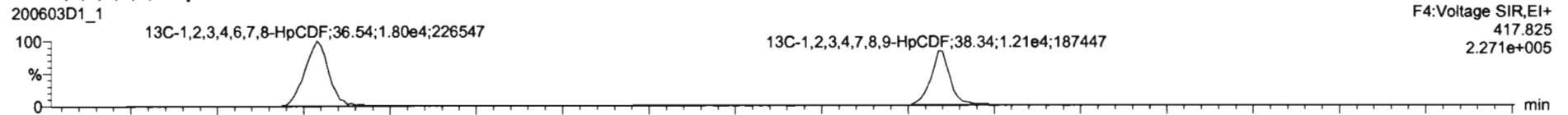
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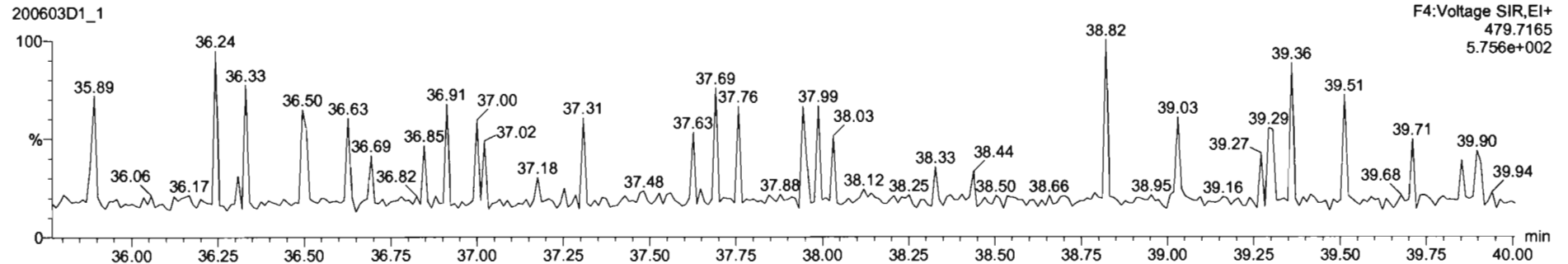
**1,2,3,4,6,7,8-HpCDF**



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



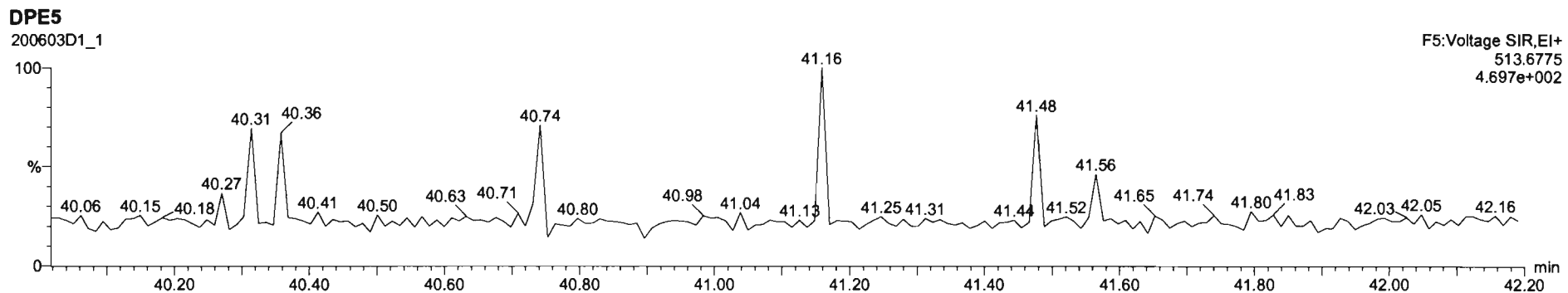
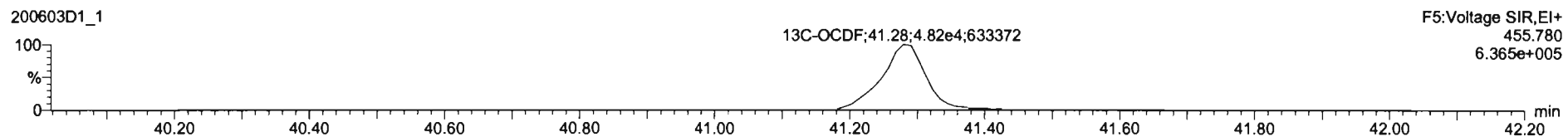
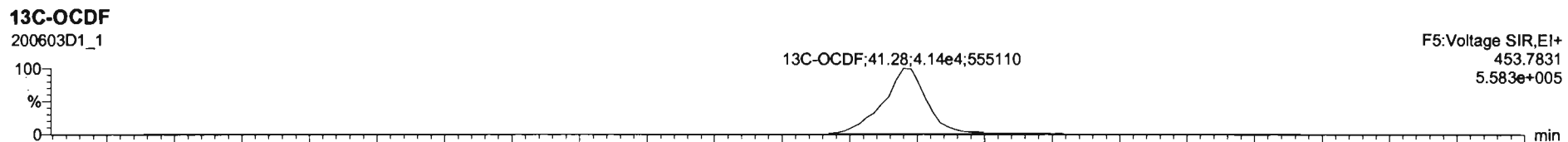
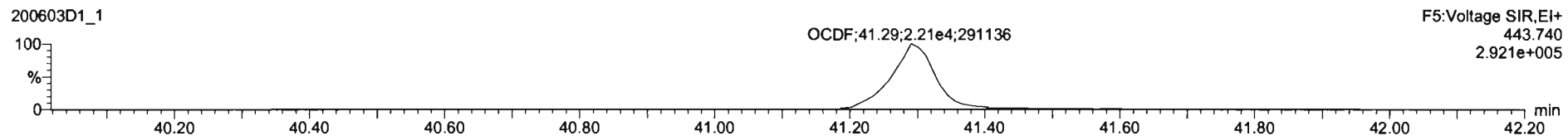
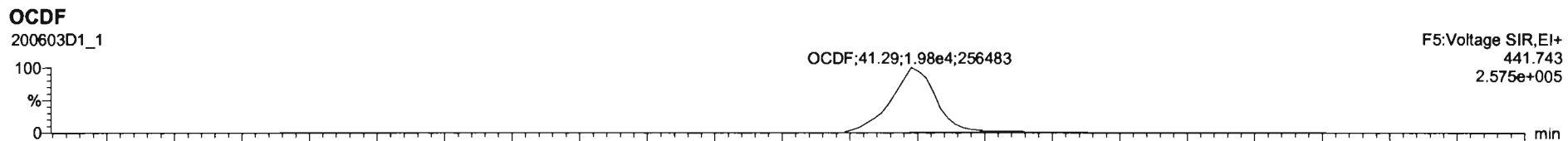
**DPE4**



Dataset: U:\VG7.PRO\Results\200603D1\200603D1\_1.qld

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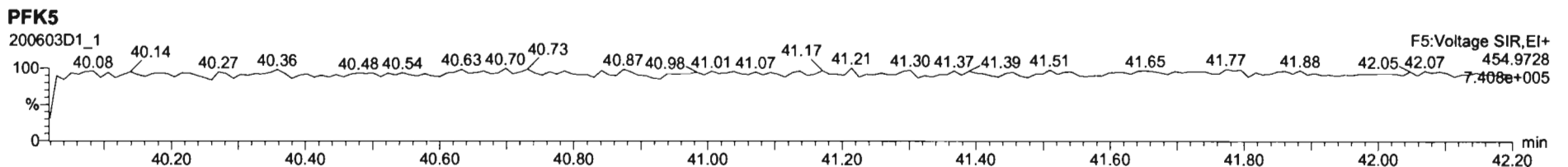
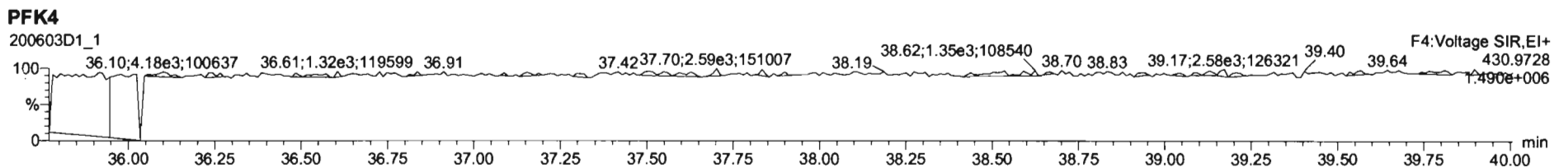
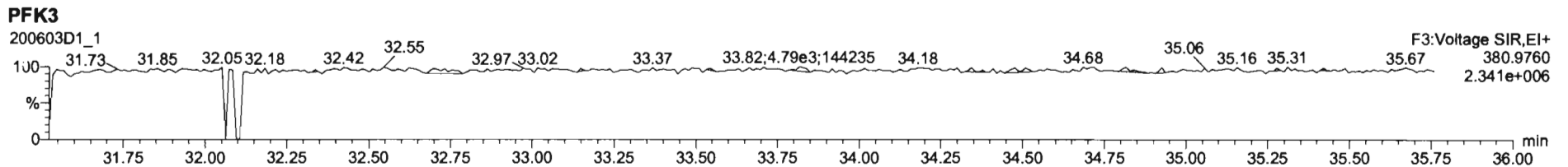
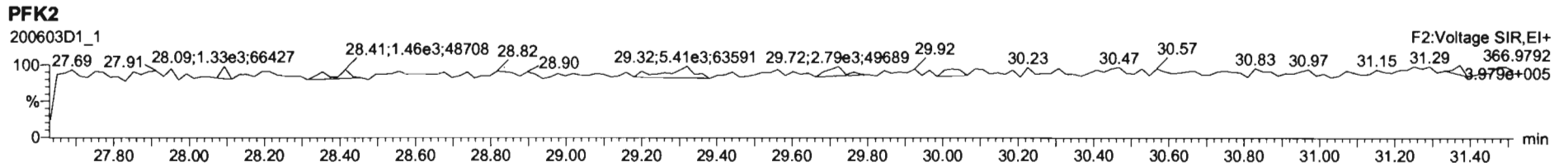
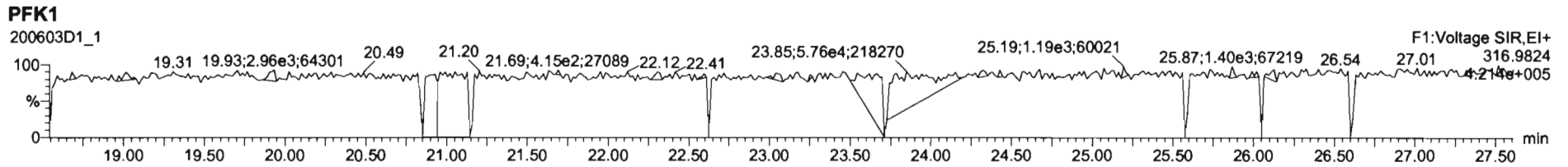
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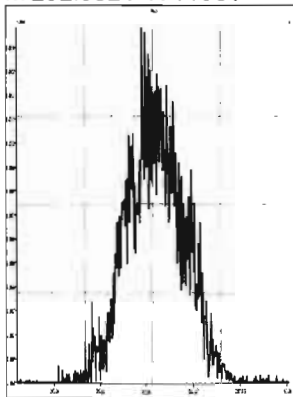
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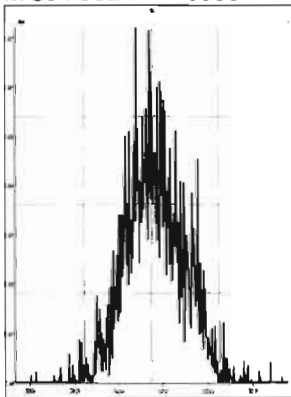
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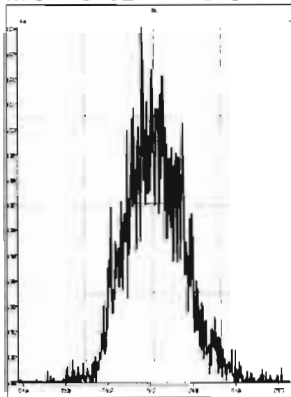
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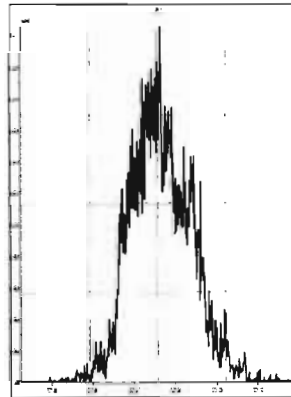
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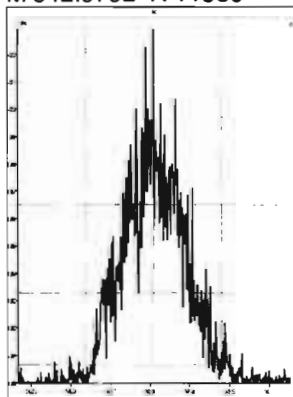
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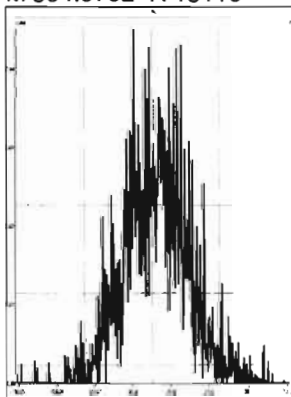
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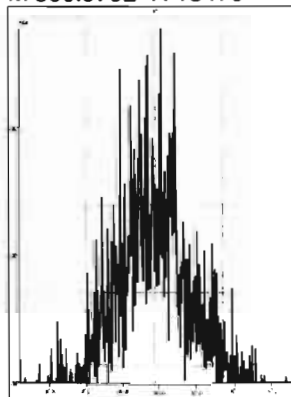
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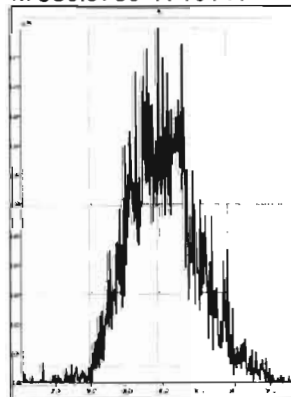
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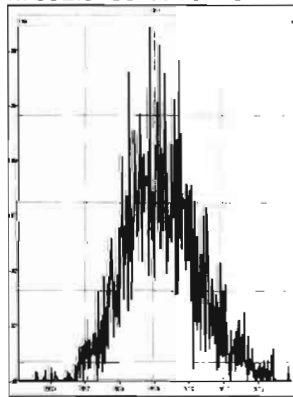
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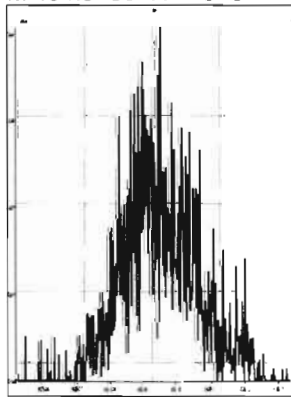
M 380.9760 R 10141



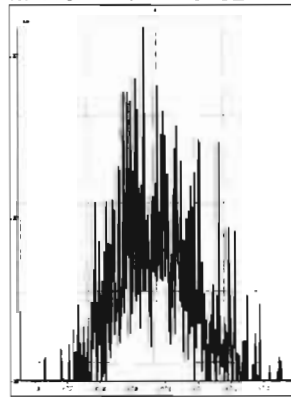
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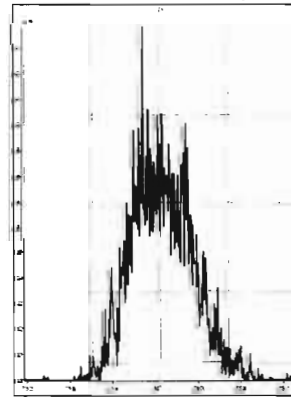
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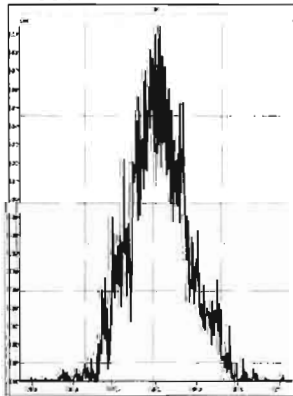
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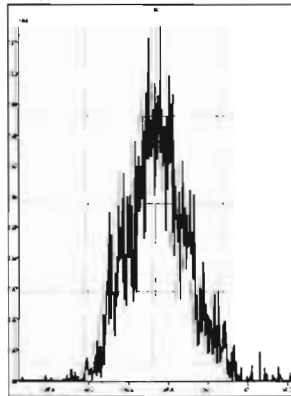
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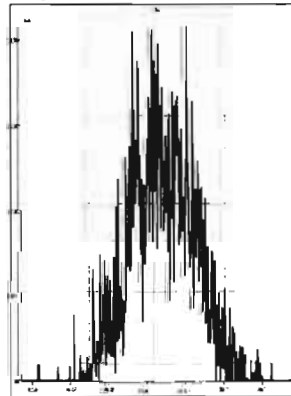
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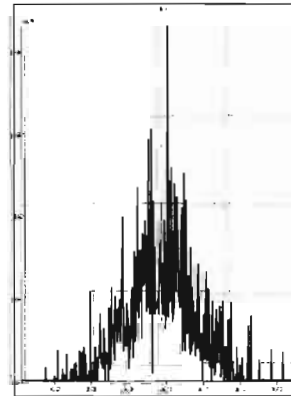
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M 354.9792 R 13012

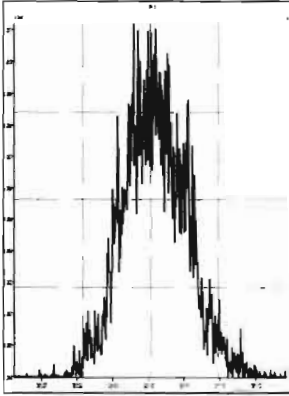


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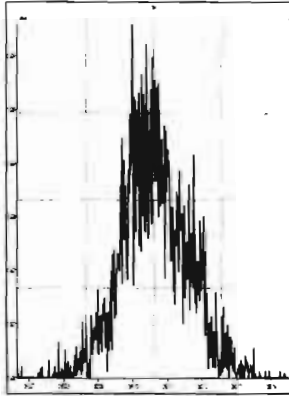


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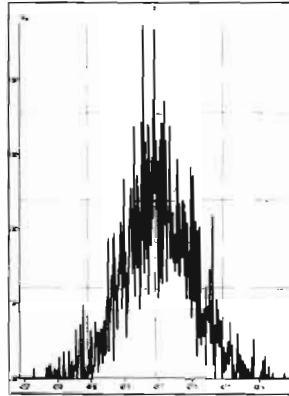
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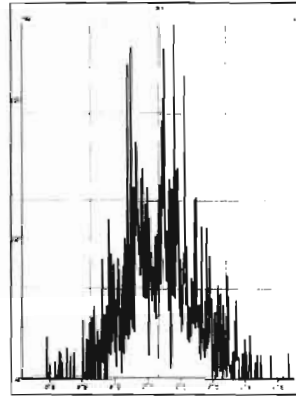
M 392.9760 R 11950



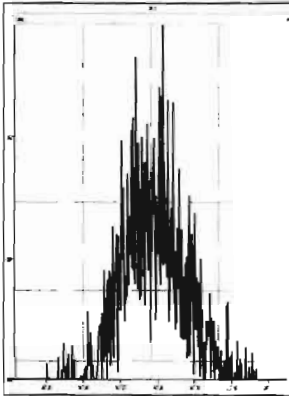
M 404.9760 R 12029



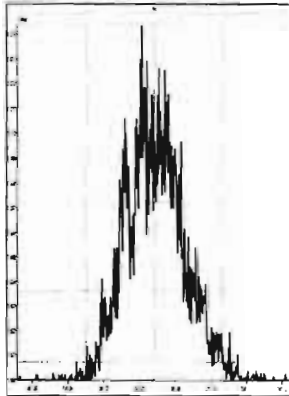
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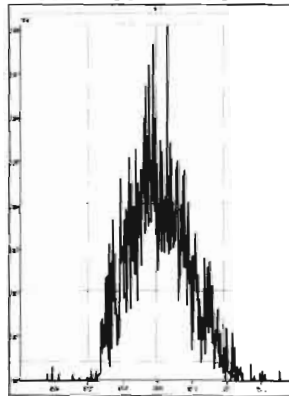
M 366.9792 R 17109



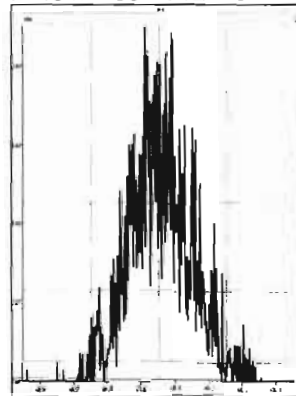
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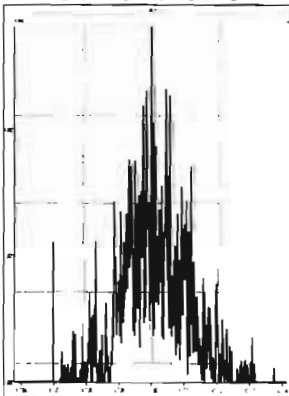
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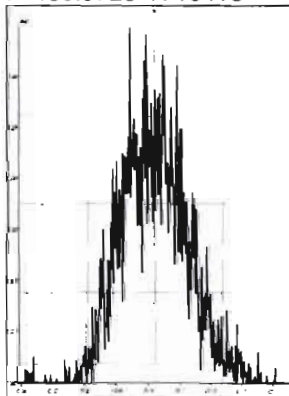
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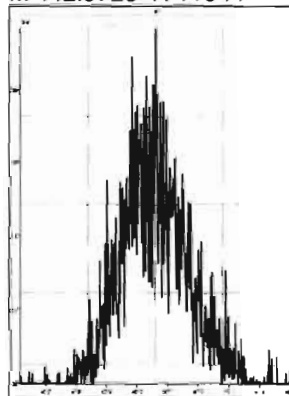
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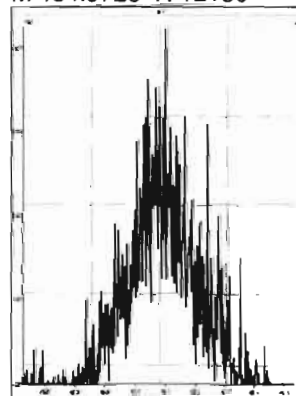
M 430.9728 R 10418



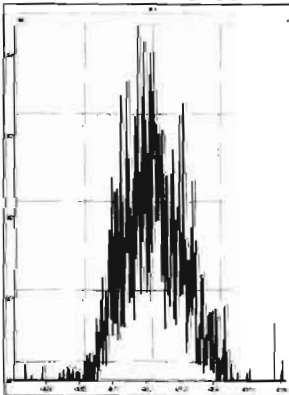
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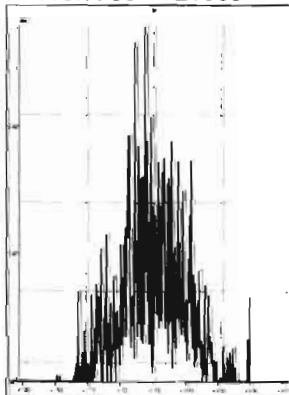
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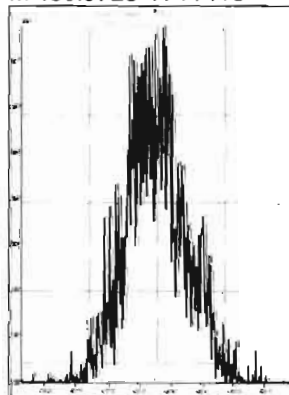
M 404.9760 R 13236



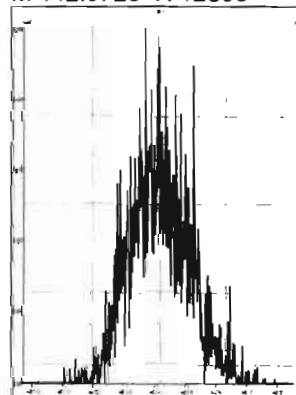
M 416.9760 R 21069



M 430.9728 R 11415



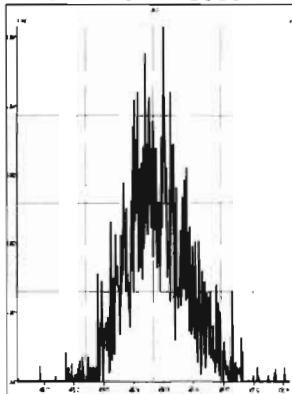
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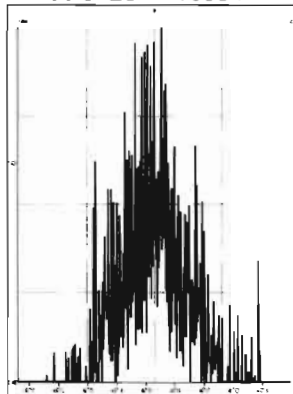


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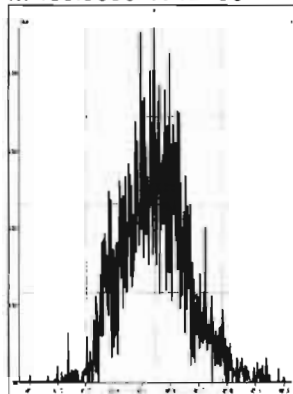
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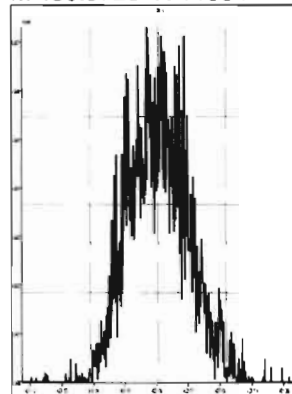
M 466.9728 R 16954



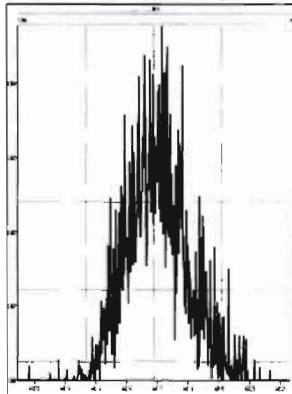
M 480.9696 R 12136



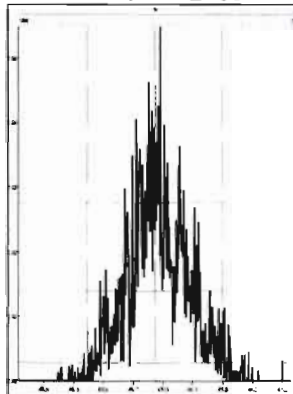
M 430.9728 R 11934



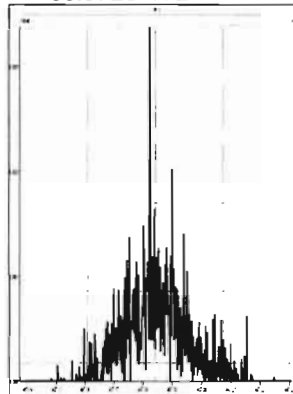
M 442.9728 R 14768



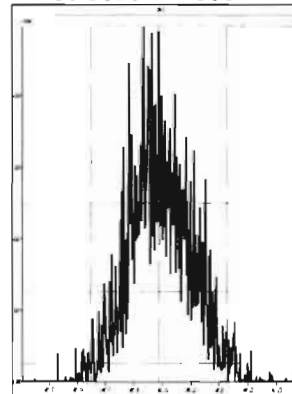
M 454.9728 R 12809



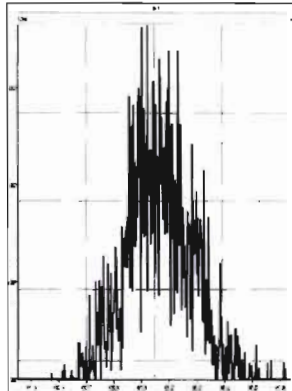
M 466.9728 R 27777



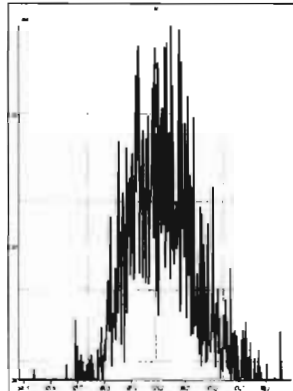
M 480.9696 R 13054



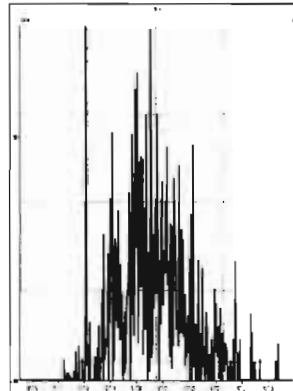
M 492.9696 R 12530



M 504.9696 R 14805



M 516.9697 R 80728



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST20060471-1

**Reviewed By:** CJ 06/05/2020

*Initials & Date*

**End Calibration ID:** NA

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

	<u>Beg.</u>	<u>End</u>
<b>Mass resolution <math>\geq</math></b>	<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		
<b>Intergrated peaks display correctly?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
<b>GC Break &lt;20%</b>		<input type="checkbox"/> NA
<b><u>8280 CS1 End Standard:</u></b>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> NA

**Comments:**

Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_1.qld

Last Altered: Thursday, June 04, 2020 12:43:43 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 12:46:58 Pacific Daylight Time

*DB 6/4/20 CT 06/05/2020*

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24  
Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200604D1\_1, Date: 04-Jun-2020, Time: 12:00:23, ID: ST200604D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Reo	DL	EMPC
1	1 2,3,7,8-TCDD	7.27e3	0.79	NO	0.987	1.000	26.097	26.08	1.001	1.001	8.0569	80.6 <i>78-129</i>	0.169	8.06
2	2 1,2,3,7,8-PeCDD	3.08e4	0.60	NO	0.982	1.000	30.650	30.65	1.001	1.001	42.721	85.4 <i>78-130</i>	0.184	42.7
3	3 1,2,3,4,7,8-HxCDD	3.11e4	1.28	NO	1.17	1.000	33.949	33.95	1.000	1.000	47.384	94.8 <i>78-128</i>	0.285	47.4
4	4 1,2,3,6,7,8-HxCDD	2.98e4	1.23	NO	1.04	1.000	34.037	34.06	1.000	1.001	44.661	89.3 <i>78-128</i>	0.286	44.7
5	5 1,2,3,7,8,9-HxCDD	3.05e4	1.30	NO	1.00	1.000	34.368	34.34	1.001	1.000	46.229	92.5 <i>82-122</i>	0.291	46.2
6	6 1,2,3,4,6,7,8-HpCDD	2.75e4	1.03	NO	0.992	1.000	37.812	37.82	1.000	1.001	47.087	94.2 <i>86-116</i>	0.232	47.1
7	7 OCDD	4.96e4	0.89	NO	1.04	1.000	41.060	41.07	1.000	1.000	92.458	92.5 <i>79-126</i>	0.275	92.5
8	8 2,3,7,8-TCDF	9.79e3	0.75	NO	0.882	1.000	25.296	25.29	1.001	1.001	9.2693	92.7 <i>84-120</i>	0.721	9.27
9	9 1,2,3,7,8-PeCDF	4.75e4	1.61	NO	1.05	1.000	29.461	29.46	1.001	1.001	43.790	87.6 <i>82-120</i>	0.106	43.8
10	10 2,3,4,7,8-PeCDF	4.56e4	1.66	NO	1.06	1.000	30.377	30.35	1.001	1.000	44.738	89.5 <i>82-120</i>	0.112	44.7
11	11 1,2,3,4,7,8-HxCDF	4.07e4	1.23	NO	1.08	1.000	33.039	33.06	1.000	1.001	46.912	93.8 <i>90-112</i>	0.183	46.9
12	12 1,2,3,6,7,8-HxCDF	4.07e4	1.26	NO	1.04	1.000	33.180	33.18	1.000	1.000	48.233	96.5 <i>88-114</i>	0.188	48.2
13	13 2,3,4,6,7,8-HxCDF	4.25e4	1.25	NO	1.11	1.000	33.797	33.77	1.001	1.000	49.880	99.8 <i>98-114</i>	0.189	49.9
14	14 1,2,3,7,8,9-HxCDF	3.63e4	1.26	NO	1.06	1.000	34.707	34.72	1.000	1.000	47.702	95.4 <i>90-112</i>	0.244	47.7
15	15 1,2,3,4,6,7,8-HpCDF	3.58e4	1.01	NO	1.13	1.000	36.565	36.55	1.001	1.001	45.180	90.4 <i>90-110</i>	0.248	45.2
16	16 1,2,3,4,7,8,9-HpCDF	3.14e4	1.03	NO	1.33	1.000	38.339	38.35	1.000	1.000	46.842	93.7 <i>86-116</i>	0.230	46.8
17	17 OCDF	5.43e4	0.89	NO	0.933	1.000	41.279	41.29	1.000	1.000	96.962	97.0 <i>63-159</i>	0.248	97.0
18	18 13C-2,3,7,8-TCDD	9.14e4	0.78	NO	1.21	1.000	26.163	26.07	1.026	1.022	101.84	102 <i>82-121</i>	0.397	
19	19 13C-1,2,3,7,8-PeCDD	7.33e4	0.64	NO	0.996	1.000	30.651	30.63	1.202	1.201	98.971	99.0 <i>62-160</i>	0.273	
20	20 13C-1,2,3,4,7,8-HxCDD	5.59e4	1.31	NO	0.679	1.000	33.924	33.94	1.014	1.014	114.77	115 <i>85-117</i>	0.444	
21	21 13C-1,2,3,6,7,8-HxCDD	6.44e4	1.34	NO	0.850	1.000	34.035	34.04	1.017	1.017	105.74	106 <i>85-118</i>	0.355	
22	22 13C-1,2,3,7,8,9-HxCDD	6.59e4	1.31	NO	0.798	1.000	34.306	34.33	1.025	1.026	115.00	115 <i>85-118</i>	0.378	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.90e4	1.06	NO	0.697	1.000	37.772	37.80	1.129	1.130	117.95	118 <i>72-138</i>	0.524	
24	24 13C-OCDD	1.04e5	0.86	NO	0.579	1.000	40.796	41.06	1.219	1.227	249.71	125 <i>48-207</i>	0.642	
25	25 13C-2,3,7,8-TCDF	1.20e5	0.77	NO	1.13	1.000	25.245	25.27	0.990	0.991	100.47	100 <i>71-140</i>	0.473	
26	26 13C-1,2,3,7,8-PeCDF	1.04e5	1.60	NO	0.996	1.000	29.470	29.44	1.156	1.155	98.630	98.6 <i>76-130</i>	0.486	
27	27 13C-2,3,4,7,8-PeCDF	9.61e4	1.61	NO	0.969	1.000	30.370	30.35	1.191	1.190	93.835	93.8 <i>77-130</i>	0.499	
28	28 13C-1,2,3,4,7,8-HxCDF	8.02e4	0.49	NO	1.06	1.000	33.054	33.04	0.988	0.988	105.64	106 <i>76-131</i>	0.395	
29	29 13C-1,2,3,6,7,8-HxCDF	8.10e4	0.49	NO	1.18	1.000	33.188	33.17	0.992	0.991	96.112	96.1 <i>70-143</i>	0.356	
30	30 13C-2,3,4,6,7,8-HxCDF	7.68e4	0.49	NO	1.06	1.000	33.760	33.76	1.009	1.009	101.26	101 <i>73-137</i>	0.396	
31	31 13C-1,2,3,7,8,9-HxCDF	7.21e4	0.49	NO	0.879	1.000	34.660	34.71	1.036	1.037	114.32	114 <i>74-135</i>	0.475	

Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_1.qld

Last Altered: Thursday, June 04, 2020 12:43:43 Pacific Daylight Time

Printed: Thursday, June 04, 2020 12:46:58 Pacific Daylight Time

Name: 200604D1\_1, Date: 04-Jun-2020, Time: 12:00:23, ID: ST200604D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.02e4	0.42	NO	0.893	1.000	36.366	36.53	1.087	1.092	109.67	110 78-129	0.395	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.03e4	0.43	NO	0.613	1.000	38.374	38.34	1.147	1.146	114.36	114 77-129	0.575	
34	34 13C-OCDF	1.20e5	0.86	NO	0.741	1.000	40.950	41.28	1.224	1.234	225.74	113 48-207	0.459	
35	35 37Cl-2,3,7,8-TCDD	8.27e3			1.18	1.000	26.160	26.08	1.026	1.023	9.4247	94.2 79-127	0.111	
36	36 13C-1,2,3,4-TCDD	7.44e4	0.80	NO	1.00	1.000	25.480	25.50	1.000	1.000	100.00	100	0.479	
37	37 13C-1,2,3,4-TCDF	1.06e5	0.78	NO	1.00	1.000	24.020	24.03	1.000	1.000	100.00	100	0.534	
38	38 13C-1,2,3,4,6,9-HxCDF	7.17e4	0.48	NO	1.00	1.000	33.530	33.46	1.000	1.000	100.00	100	0.418	

Dataset: Untitled

Last Altered: Friday, June 05, 2020 09:26:30 Pacific Daylight Time

Printed: Friday, June 05, 2020 09:26:55 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CPSM.mdb 18 May 2020 14:57:34

Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200604D1\_1, Date: 04-Jun-2020, Time: 12:00:23, ID: ST200604D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	22.63
2	1,2,8,9-TCDD (Last)	26.95
3	1,2,4,7,9-PeCDD (First)	28.60
4	1,2,3,8,9-PeCDD (Last)	31.01
5	1,2,4,6,7,9-HxCDD (First)	32.42
6	1,2,3,7,8,9-HxCDD (Last)	34.34
7	1,2,3,4,6,7,9-HpCDD (First)	36.95
8	1,2,3,4,6,7,8-HpCDD (Last)	37.82
9	1,3,6,8-TCDF (First)	20.47
10	1,2,8,9-TCDF (Last)	27.10
11	1,3,4,6,8-PeCDF (First)	27.06
12	1,2,3,8,9-PeCDF (Last)	31.23
13	1,2,3,4,6,8-HxCDF (First)	31.89
14	1,2,3,7,8,9-HxCDF (Last)	34.72
15	1,2,3,4,6,7,8-HpCDF (First)	36.55
16	1,2,3,4,7,8,9-HpCDF (Last)	38.35

Dataset: Untitled

Last Altered: Friday, June 05, 2020 09:25:47 Pacific Daylight Time  
Printed: Friday, June 05, 2020 09:26:04 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24  
Calibration: U:\VG7.PRO\CurveDB\db\_5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

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

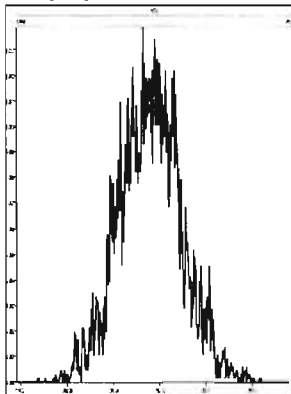
	Name	ID	Acq.Date	Acq.Time
1	200604D1_1	ST200604D1-1 1613 CS3 19L2305	04-Jun-20	12:00:23
2	200604D1_2	B0E0100-BS1 OPR 10	04-Jun-20	12:45:31
3	200604D1_3	SOLVENT BLANK	04-Jun-20	13:30:40
4	200604D1_4	B0E0100-BLK1 Method Blank 10	04-Jun-20	14:15:51
5	200604D1_5	2000945-01 PDI-146SC-A-00-01-200426 14.29	04-Jun-20	15:00:59
6	200604D1_6	2000945-02 PDI-146SC-A-01-02-200426 12.02	04-Jun-20	15:46:07
7	200604D1_7	B0D0306-DUP1 Duplicate 11.39	04-Jun-20	16:31:15
8	200604D1_8	2000945-03 PDI-146SC-A-02-03-200426 12.11	04-Jun-20	17:16:22
9	200604D1_9	2000945-05 PDI-146SC-A-04-05-200426 11.68	04-Jun-20	18:01:30
10	200604D1_10	2000998-01 PDI-063SC-A-08-09-200429 14.35	04-Jun-20	18:46:38
11	200604D1_11	2000998-02 PDI-063SC-A-09-10.2-200429 15....	04-Jun-20	19:31:44
12	200604D1_12	B0E0100-DUP1 Duplicate 15.21	04-Jun-20	20:16:51
13	200604D1_13	2000998-03 PDI-1063SC-A-08-09-200429 14.4	04-Jun-20	21:01:58
14	200604D1_14	2000998-04 PDI-063SC-B-00-02-200429 15.4	04-Jun-20	21:47:04
15	200604D1_15	B0E0100-DUP2 Duplicate 18.88	04-Jun-20	22:32:11



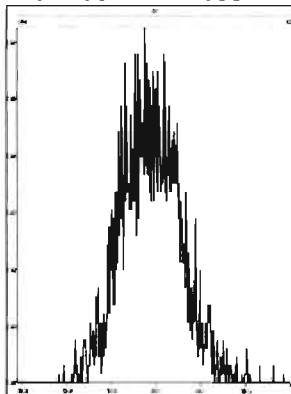
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, June 04, 2020 11:54:16 Pacific Daylight Time

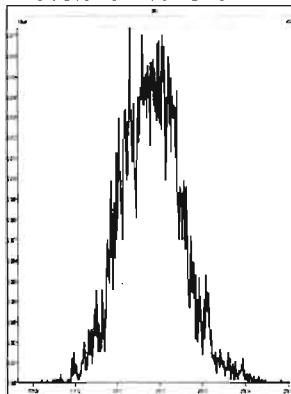
M 292.9824 R 10547



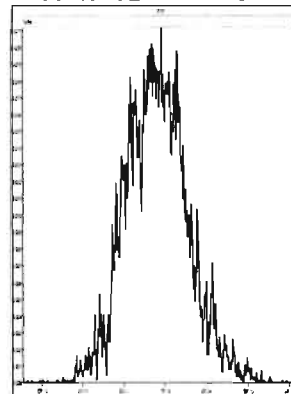
M 304.9824 R 11965



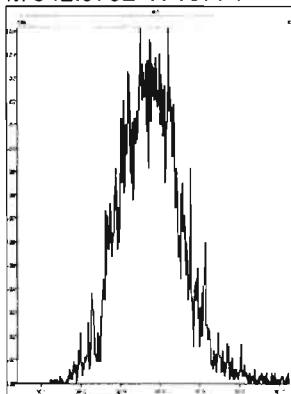
M 318.9792 R 10037



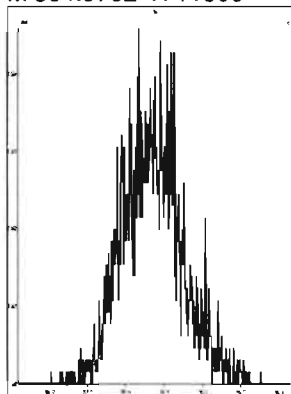
M 330.9792 R 11848



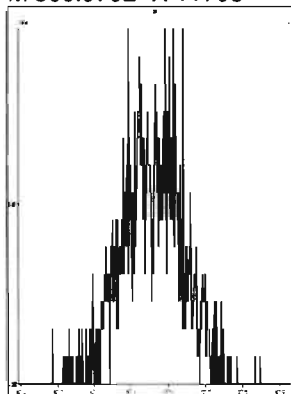
M 342.9792 R 10774



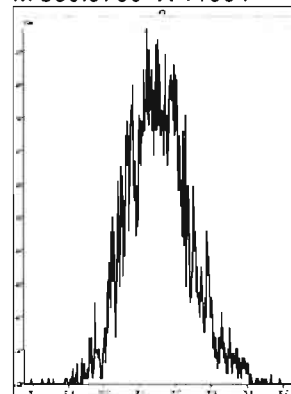
M 354.9792 R 11309



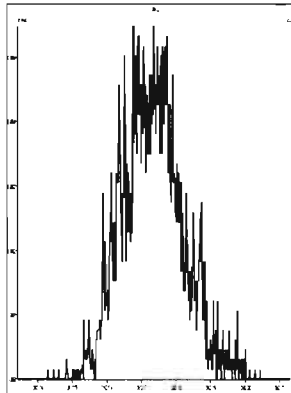
M 366.9792 R 11793



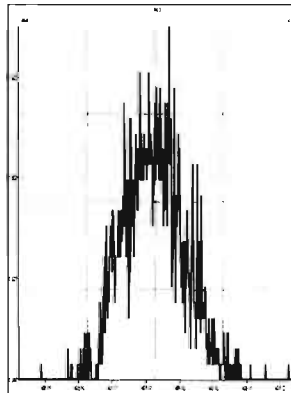
M 380.9760 R 11904



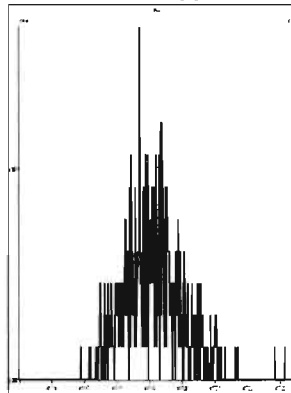
M 392.9760 R 11572



M 404.9760 R 11162



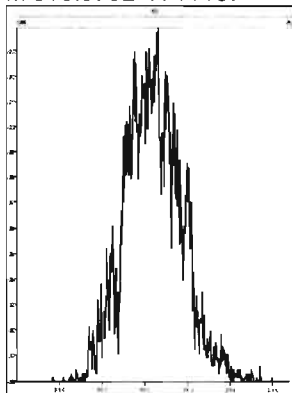
M 416.9760 R 33785



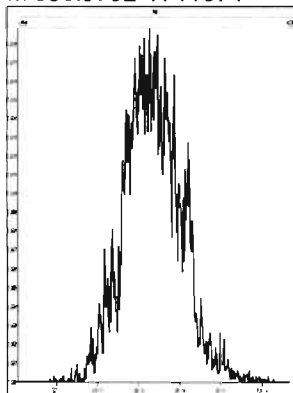
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, June 04, 2020 11:55:43 Pacific Daylight Time

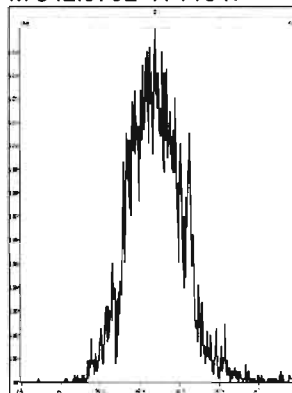
M 318.9792 R 11157



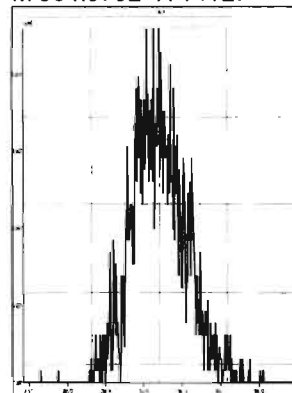
M 330.9792 R 11574



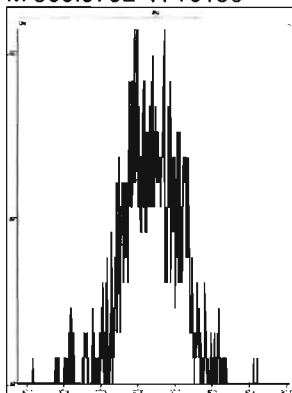
M 342.9792 R 11847



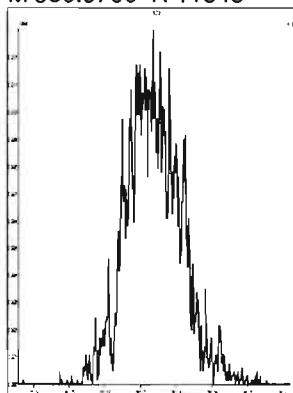
M 354.9792 R 14127



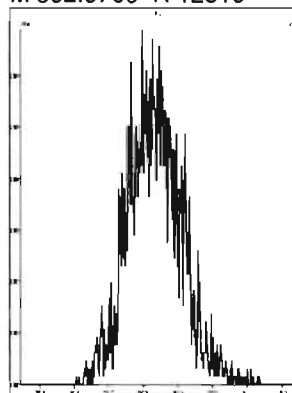
M 366.9792 R 16130



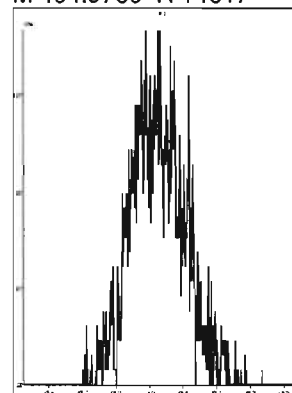
M 380.9760 R 11848



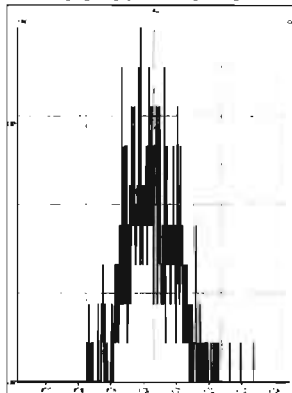
M 392.9760 R 12819



M 404.9760 R 14617



M 416.9760 R 16779

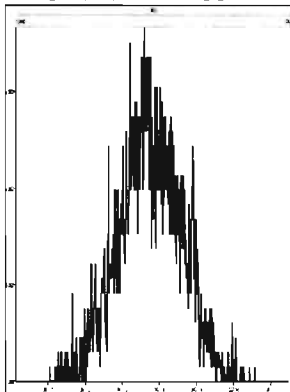




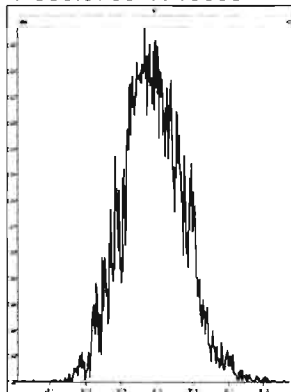
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, June 04, 2020 11:56:43 Pacific Daylight Time

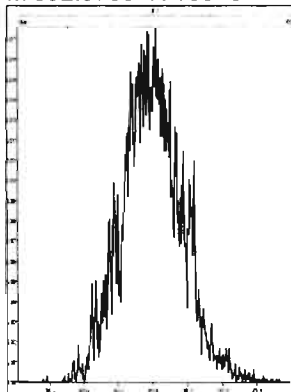
M 366.9792 R 10504



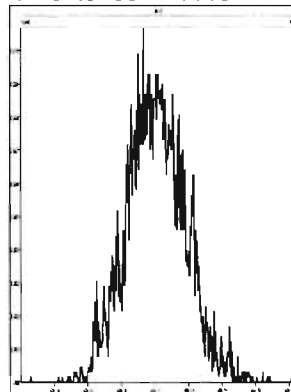
M 380.9760 R 10503



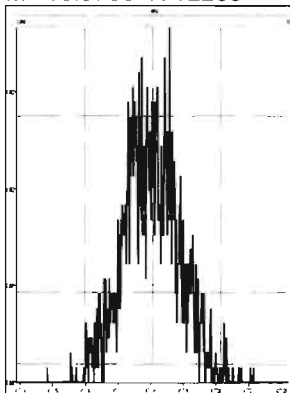
M 392.9760 R 10546



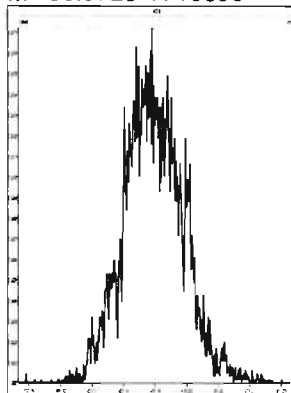
M 404.9760 R 11157



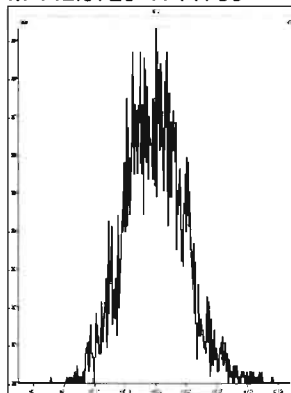
M 416.9760 R 12255



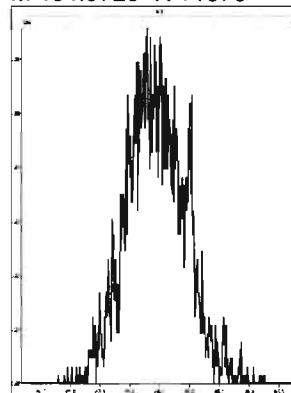
M 430.9728 R 10596



M 442.9728 R 11735



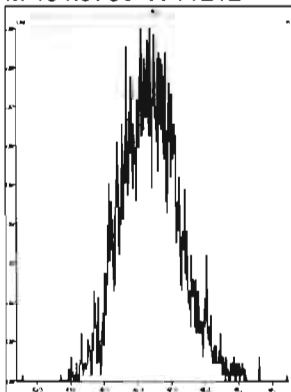
M 454.9728 R 11575



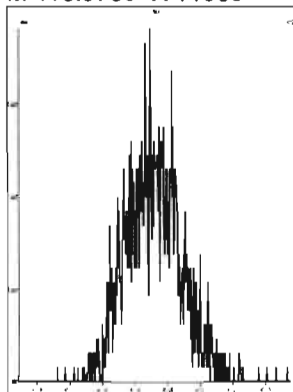
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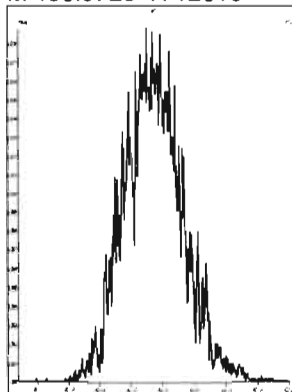
M 404.9760 R 11212



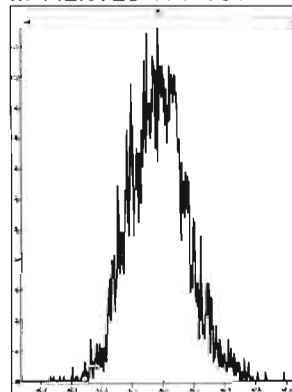
M 416.9760 R 11905



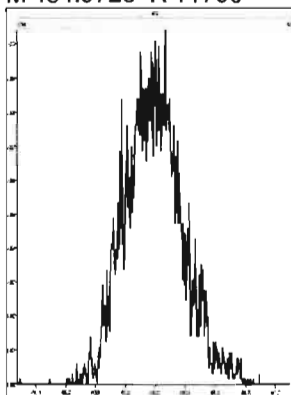
M 430.9728 R 12019



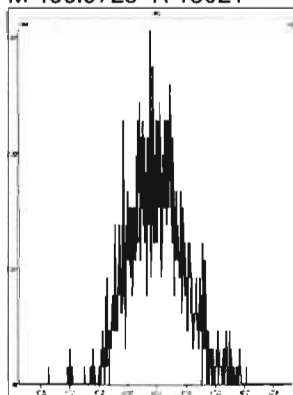
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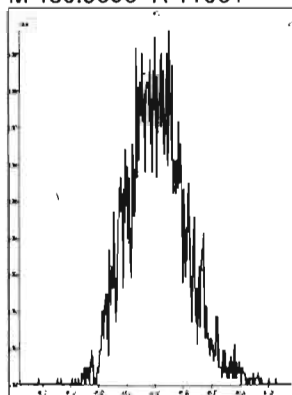
M 454.9728 R 11790



M 466.9728 R 13021



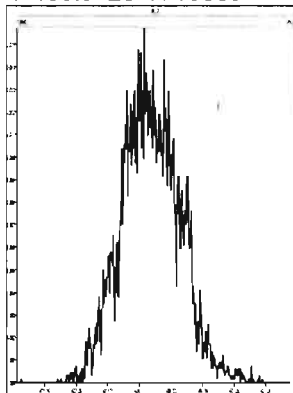
M 480.9696 R 11061



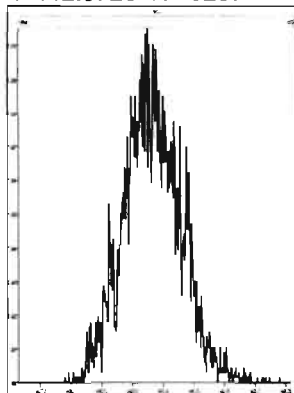
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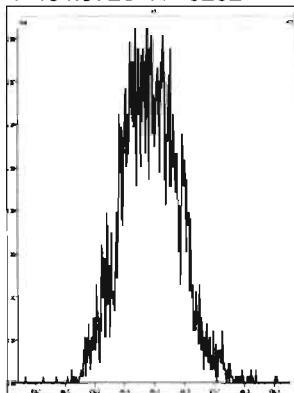
M 430.9728 R 10869



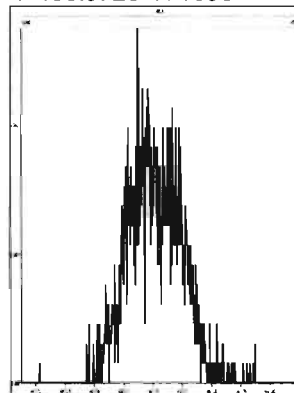
M 442.9728 R 10287



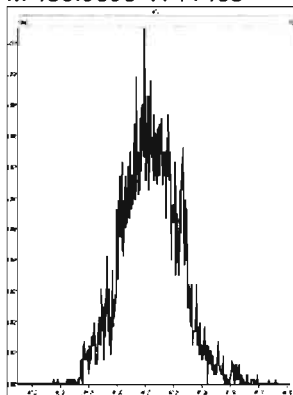
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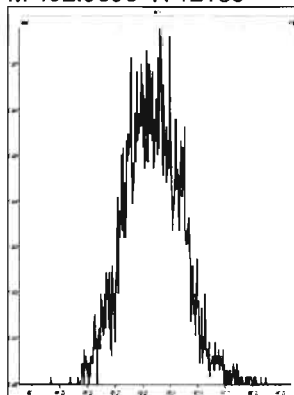
M 466.9728 R 13967



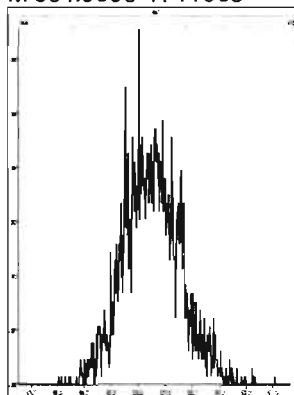
M 480.9696 R 11468



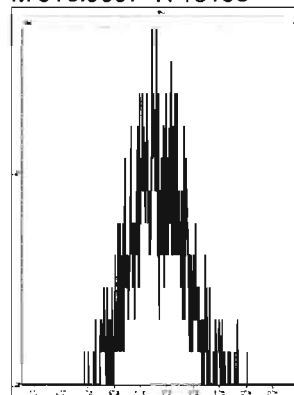
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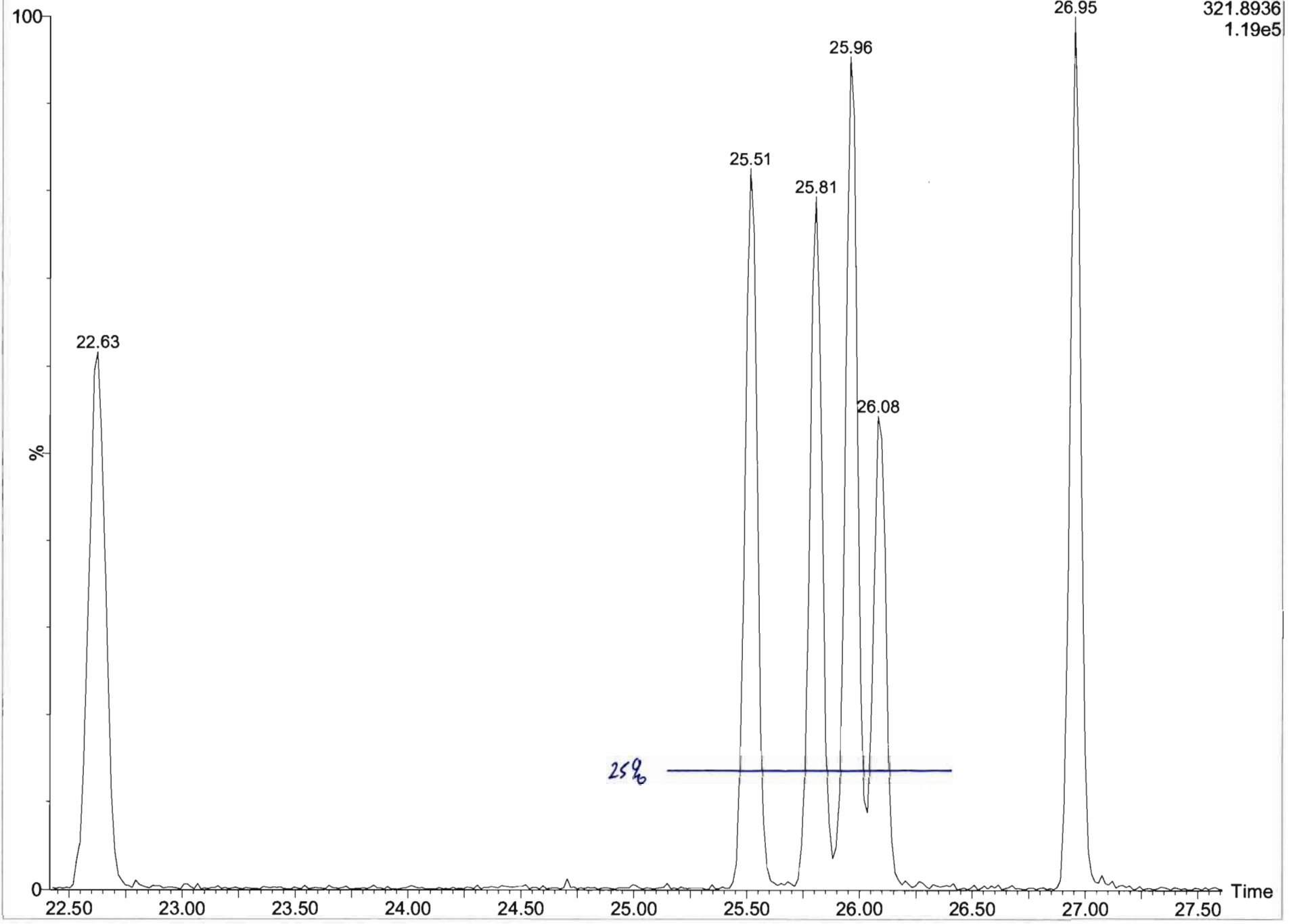


M 504.9696 R 11063



M 516.9697 R 13158





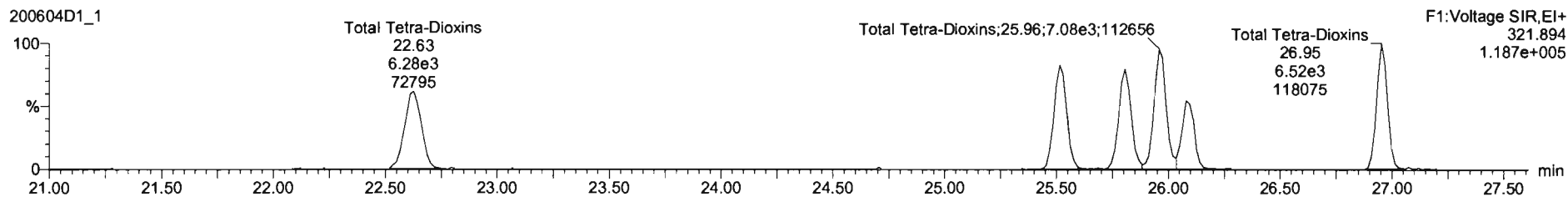
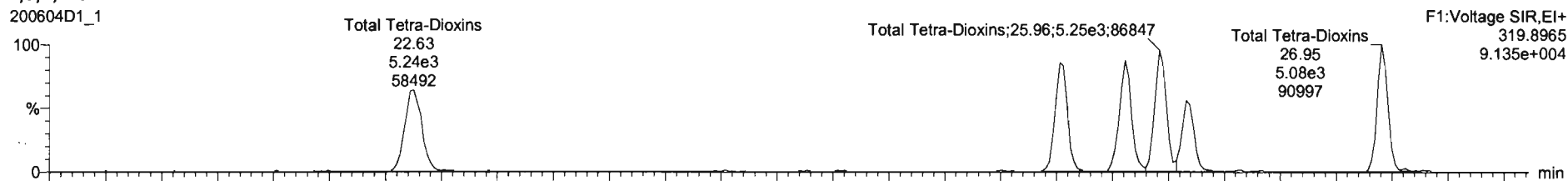
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Printed: Thursday, June 04, 2020 12:47:22 Pacific Daylight Time

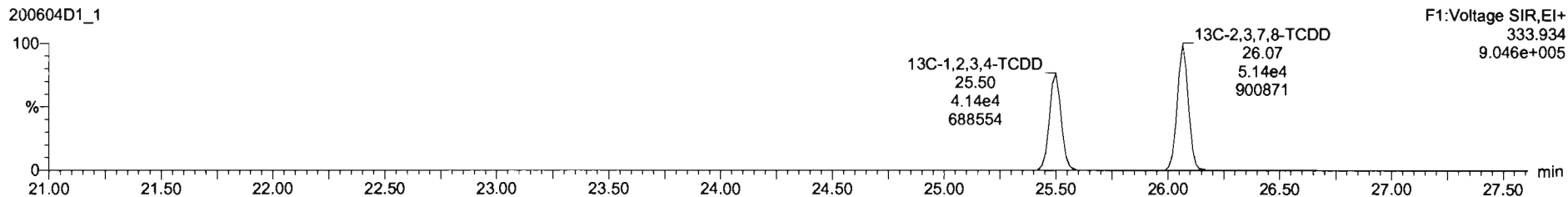
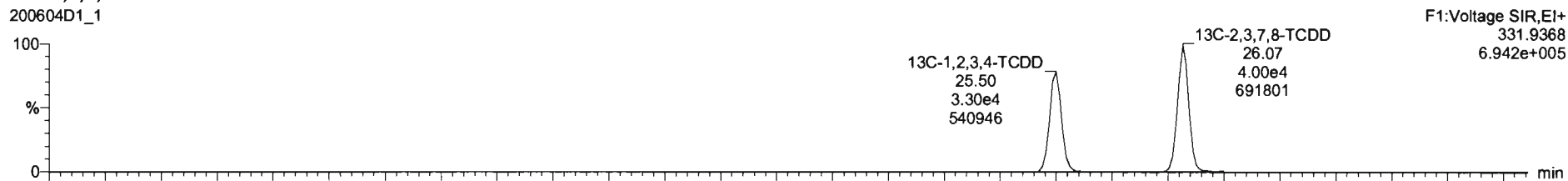
Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24  
Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200604D1\_1, Date: 04-Jun-2020, Time: 12:00:23, ID: ST200604D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



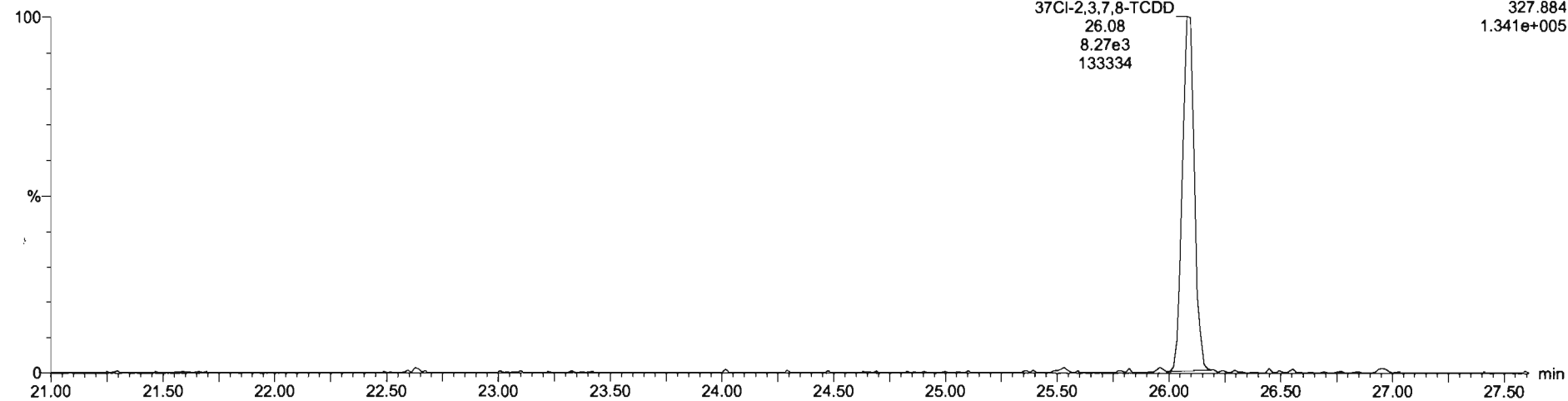
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Printed: Thursday, June 04, 2020 12:47:22 Pacific Daylight Time

Name: 200604D1\_1, Date: 04-Jun-2020, Time: 12:00:23, ID: ST200604D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

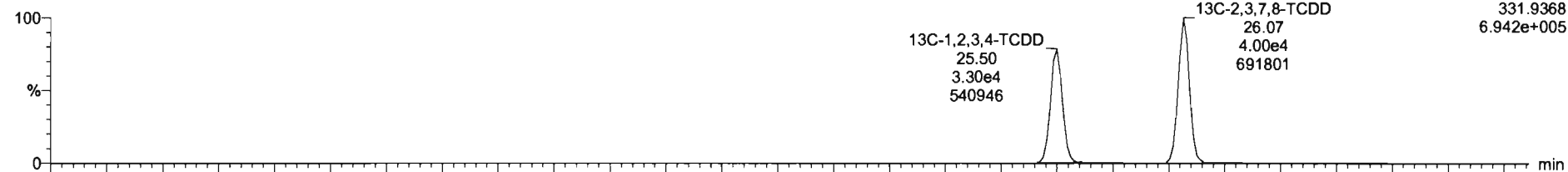
**37Cl-2,3,7,8-TCDD**

200604D1\_1

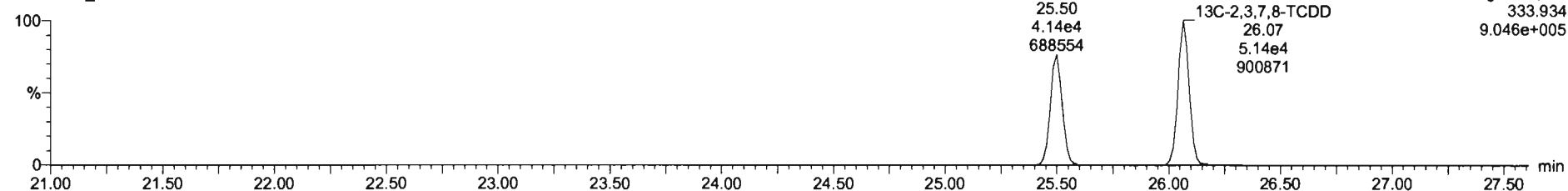


**13C-1,2,3,4-TCDD**

200604D1\_1



200604D1\_1



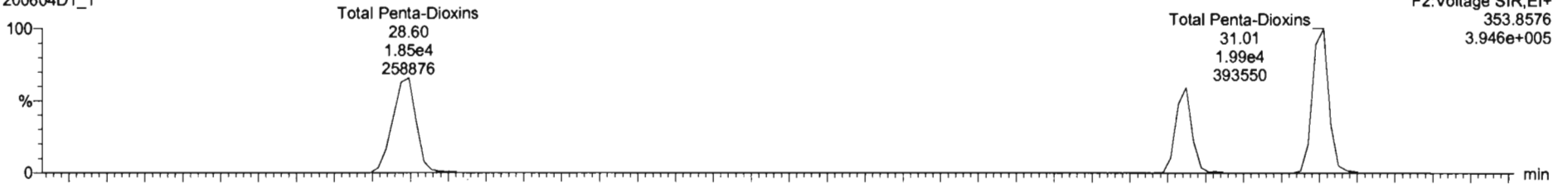
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Printed: Thursday, June 04, 2020 12:47:22 Pacific Daylight Time

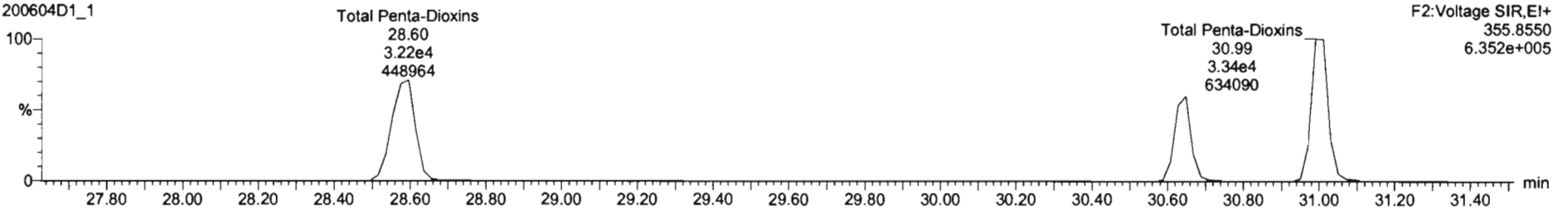
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1,2,3,7,8-PeCDD

200604D1\_1

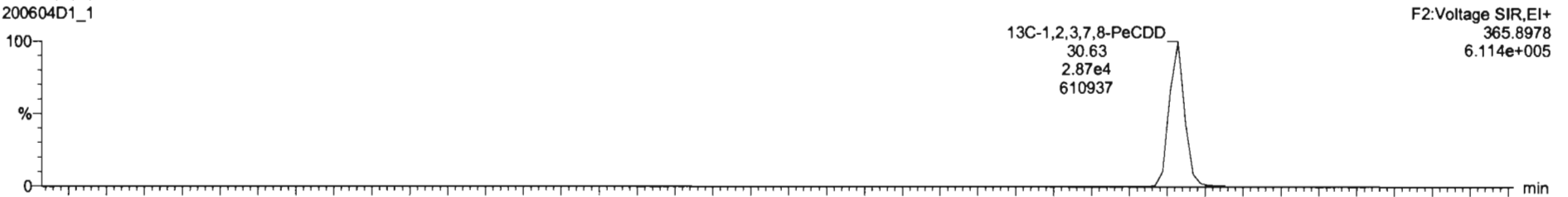


200604D1\_1

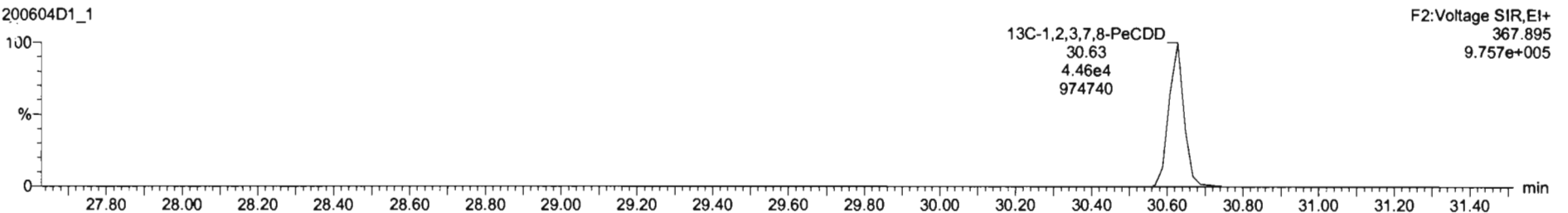


13C-1,2,3,7,8-PeCDD

200604D1\_1



200604D1\_1



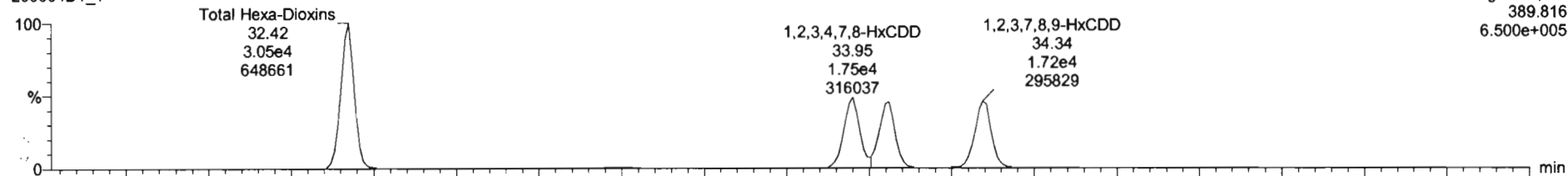
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Printed: Thursday, June 04, 2020 12:47:22 Pacific Daylight Time

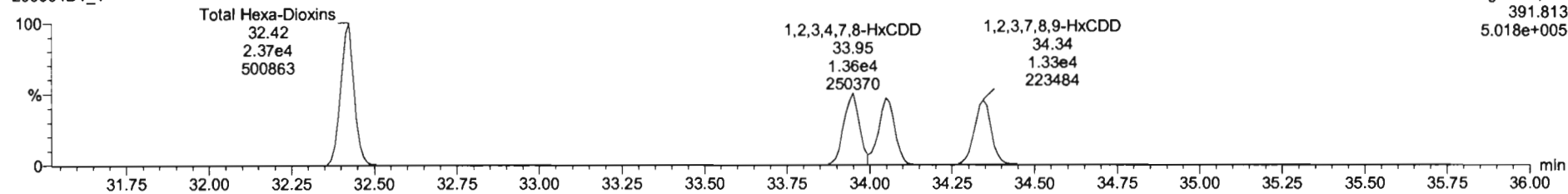
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1,2,3,4,7,8-HxCDD

200604D1\_1

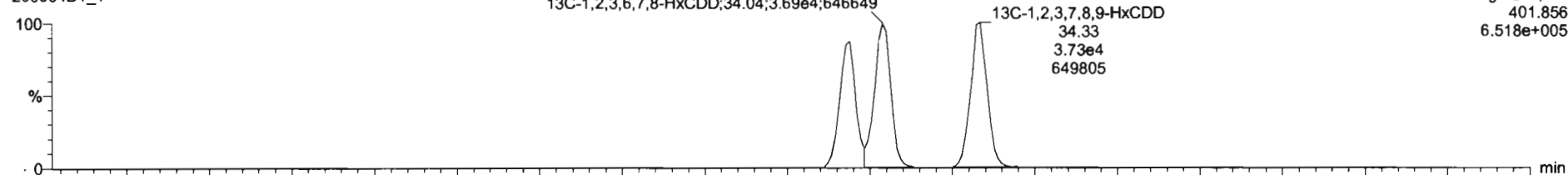


200604D1\_1

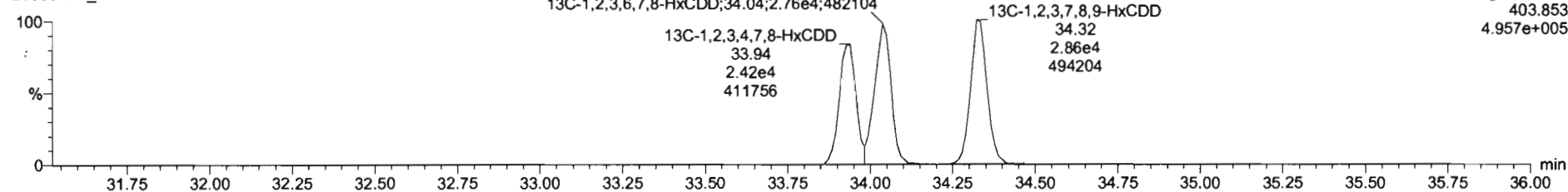


13C-1,2,3,4,7,8-HxCDD

200604D1\_1



200604D1\_1





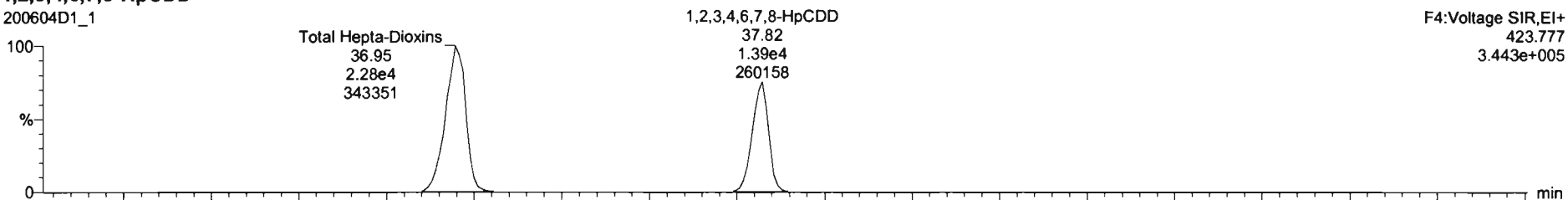
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Printed: Thursday, June 04, 2020 12:47:22 Pacific Daylight Time

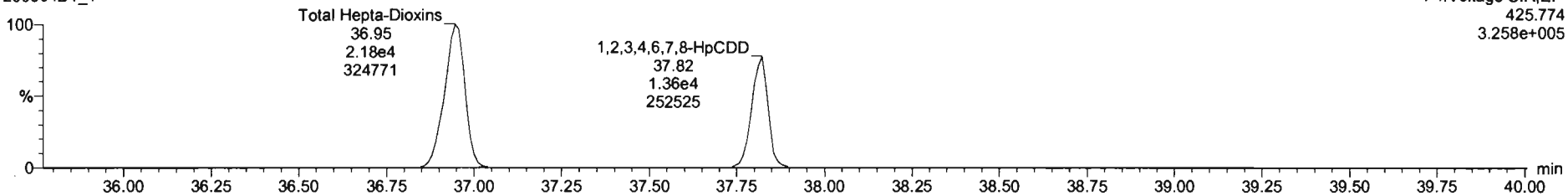
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1,2,3,4,6,7,8-HpCDD

200604D1\_1

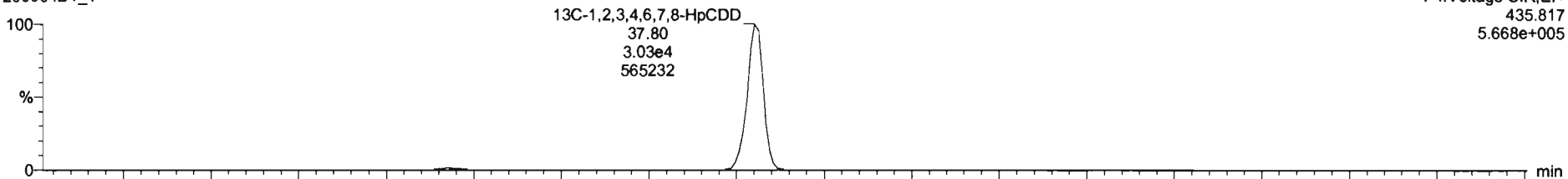


200604D1\_1

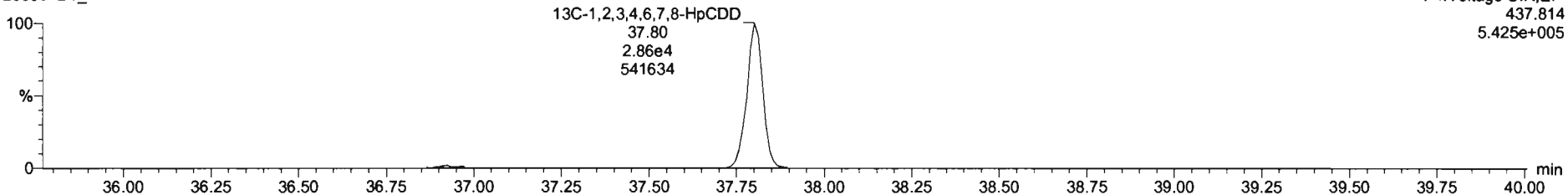


13C-1,2,3,4,6,7,8-HpCDD

200604D1\_1



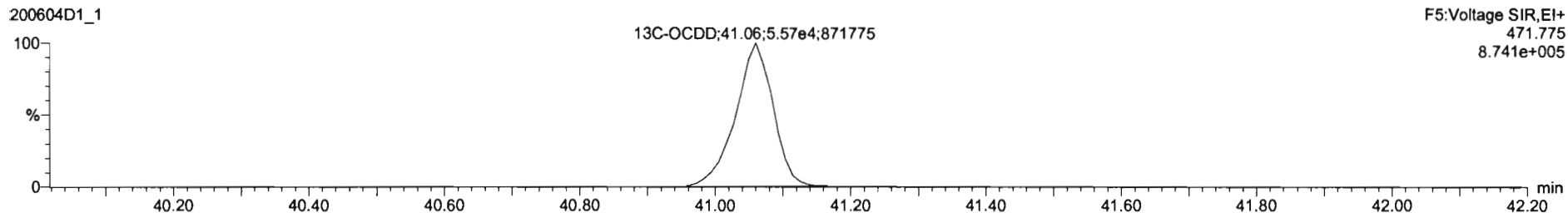
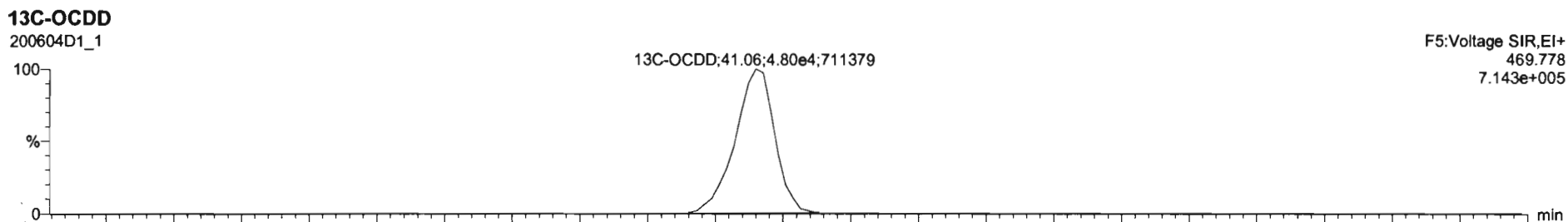
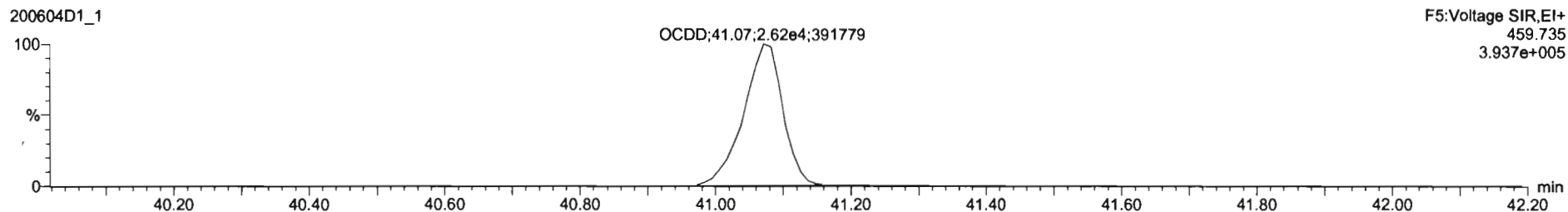
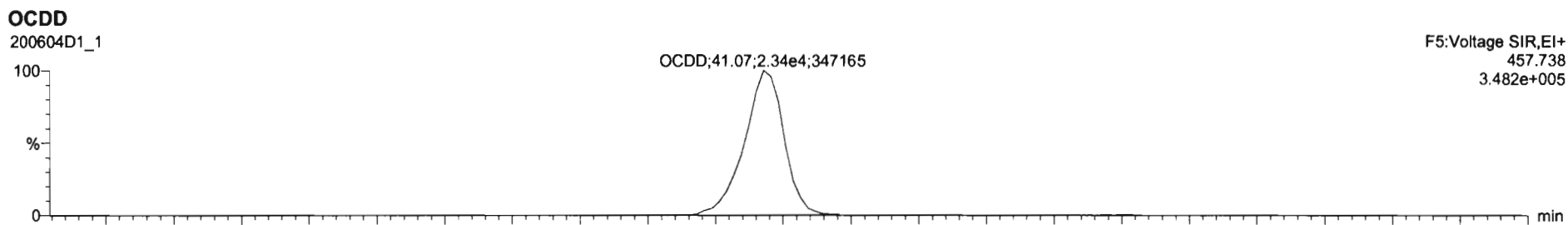
200604D1\_1



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Name: 200604D1\_1, Date: 04-Jun-2020, Time: 12:00:23, ID: ST200604D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



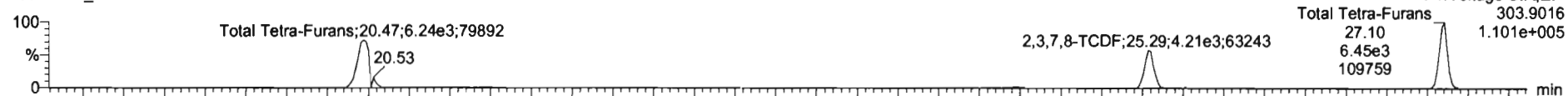
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Printed: Thursday, June 04, 2020 12:47:22 Pacific Daylight Time

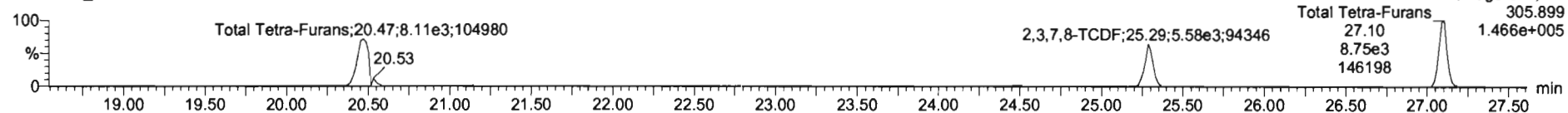
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2,3,7,8-TCDF

200604D1\_1

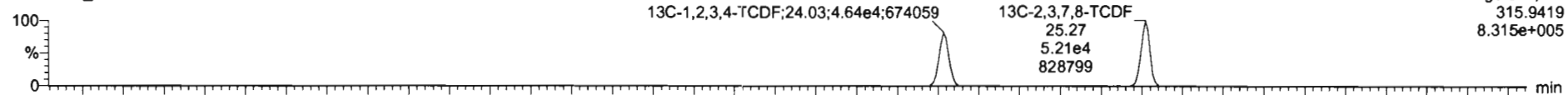


200604D1\_1

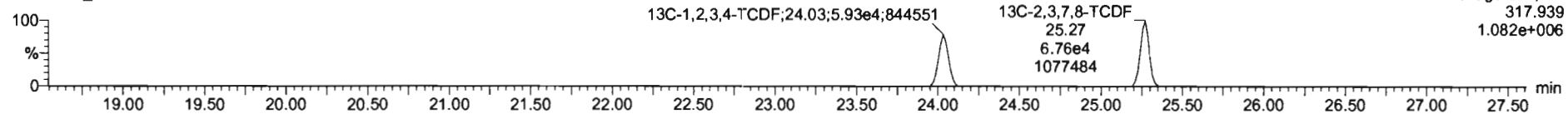


13C-2,3,7,8-TCDF

200604D1\_1

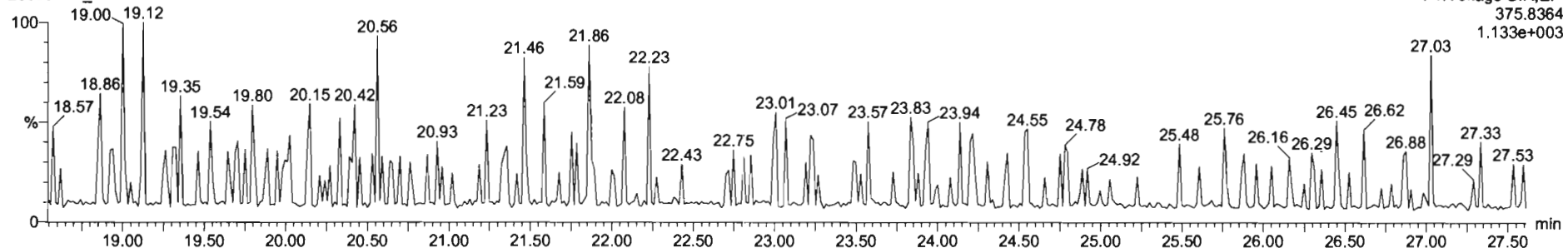


200604D1\_1



DPE1

200604D1\_1



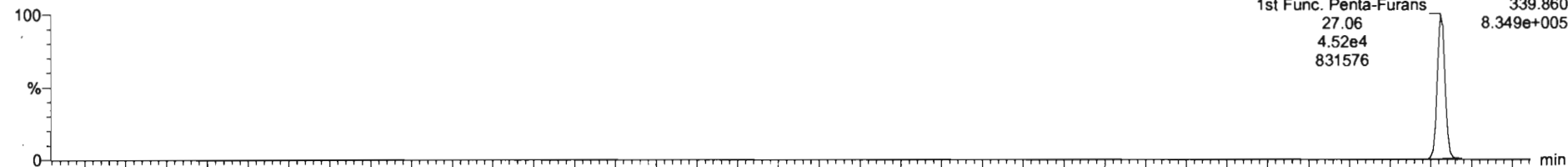
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Last Altered: Thursday, June 04, 2020 12:43:43 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 12:47:22 Pacific Daylight Time

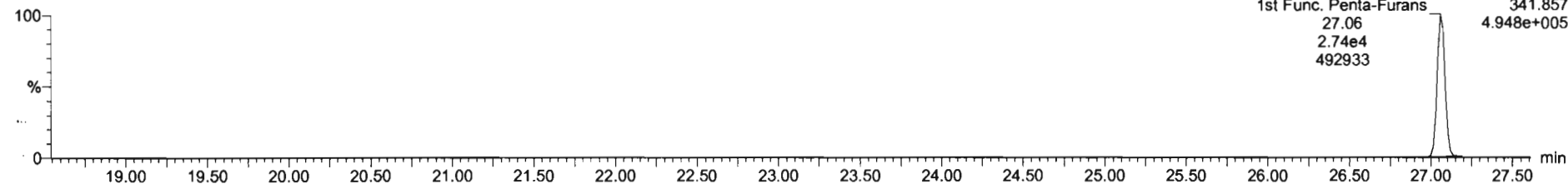
Name: 200604D1\_1, Date: 04-Jun-2020, Time: 12:00:23, ID: ST200604D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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200604D1\_1

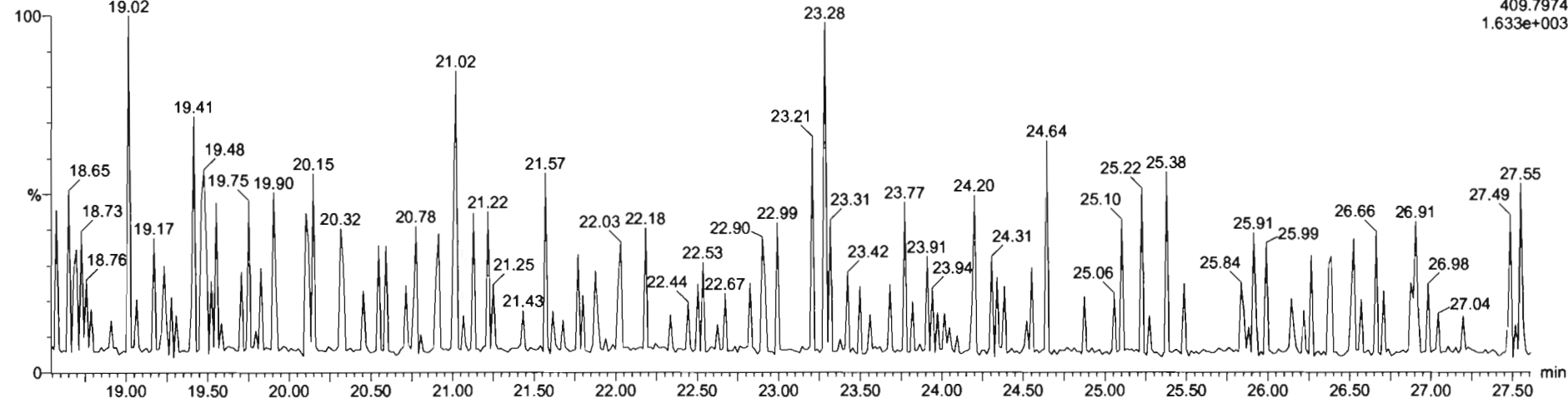


200604D1\_1



DPE6

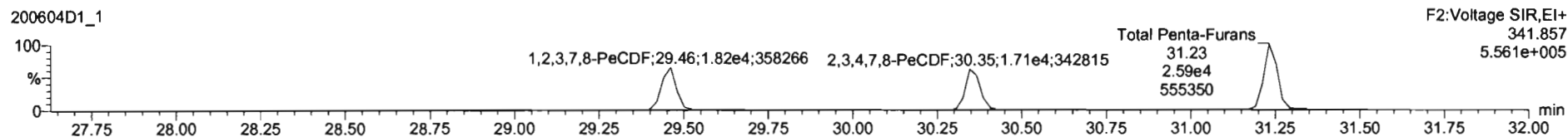
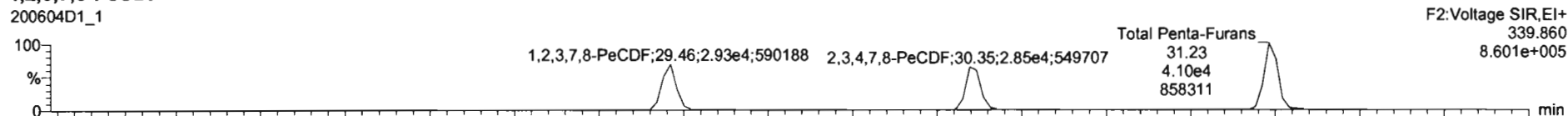
200604D1\_1



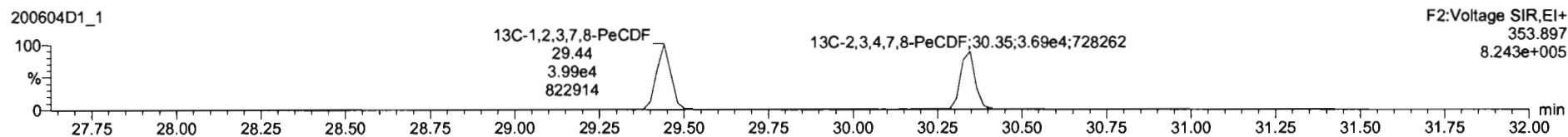
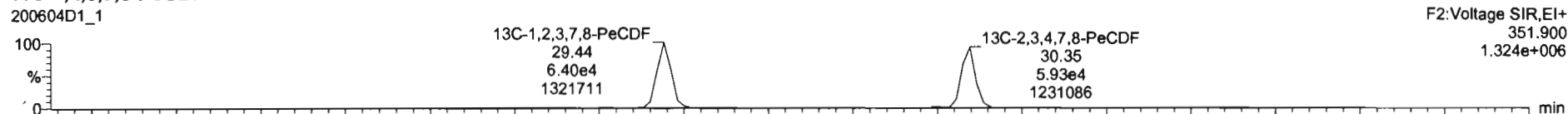
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Printed: Thursday, June 04, 2020 12:47:22 Pacific Daylight Time

Name: 200604D1\_1, Date: 04-Jun-2020, Time: 12:00:23, ID: ST200604D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

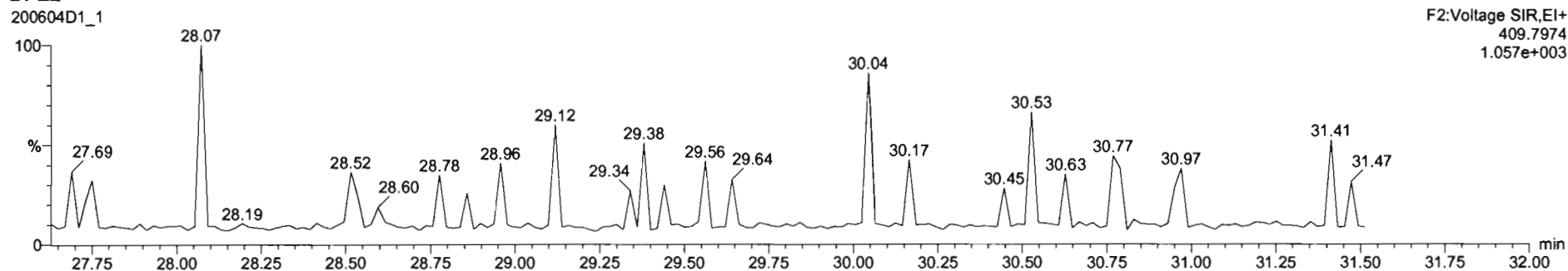
1,2,3,7,8-PeCDF



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



DPE2



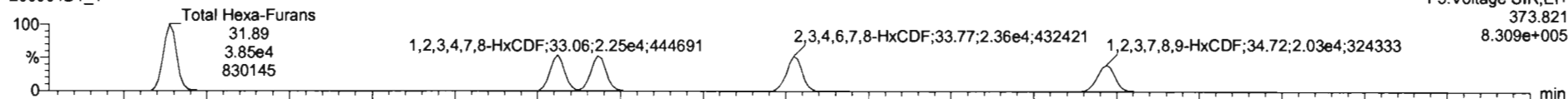
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Last Altered: Thursday, June 04, 2020 12:43:43 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 12:47:22 Pacific Daylight Time

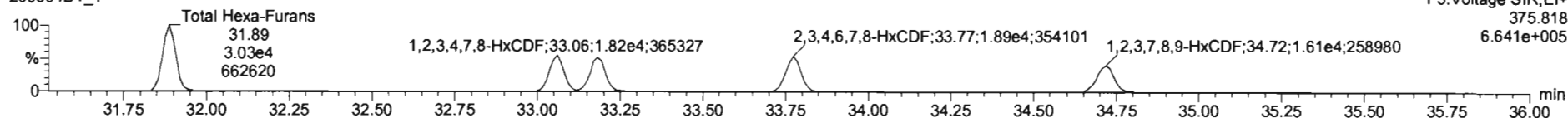
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1,2,3,4,7,8-HxCDF

200604D1\_1

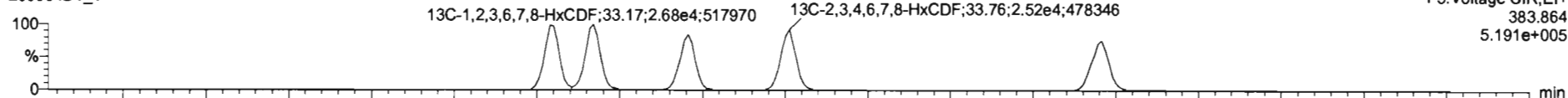


200604D1\_1

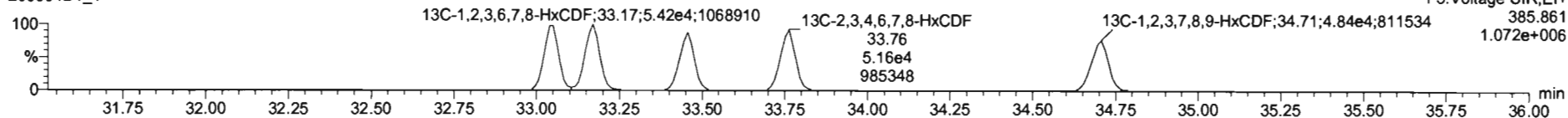


13C-1,2,3,4,7,8-HxCDF

200604D1\_1

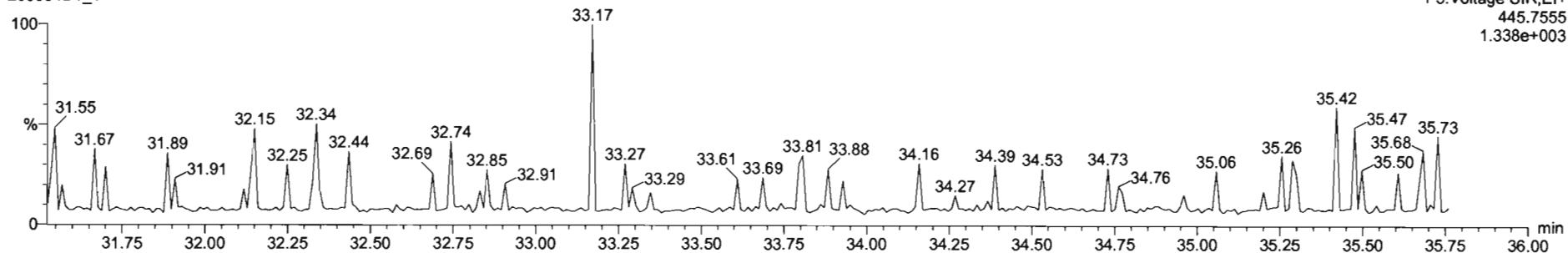


200604D1\_1



DPE3

200604D1\_1

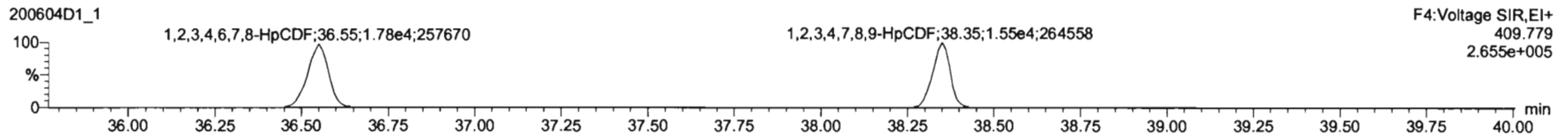
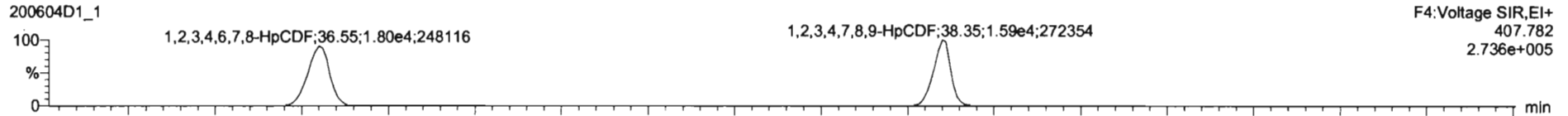


Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_1.qld

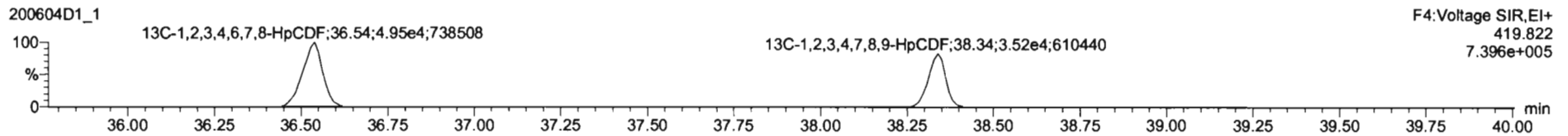
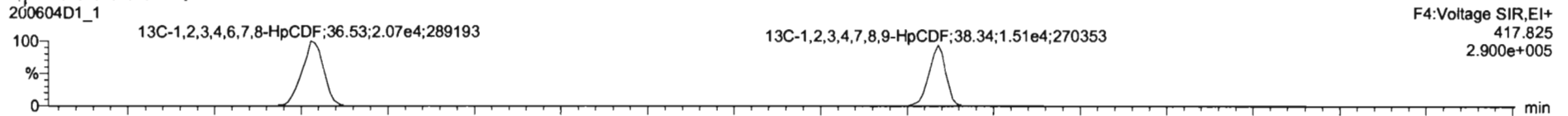
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Printed: Thursday, June 04, 2020 12:47:22 Pacific Daylight Time

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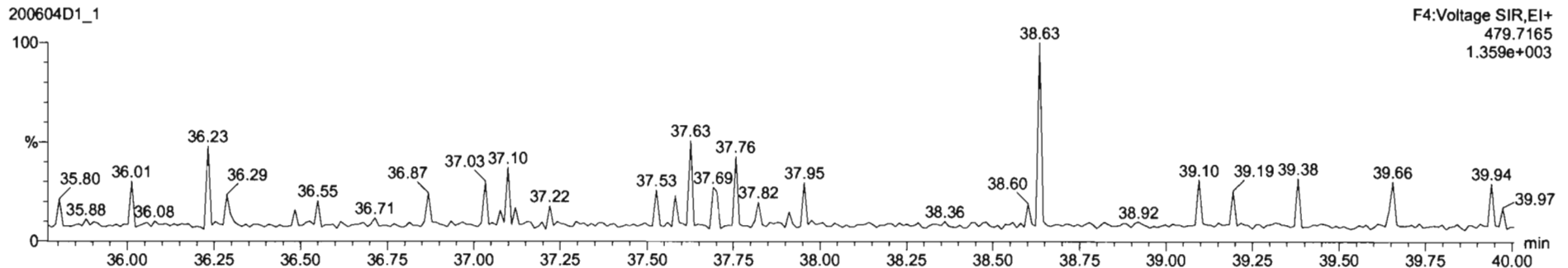
**1,2,3,4,6,7,8-HpCDF**



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



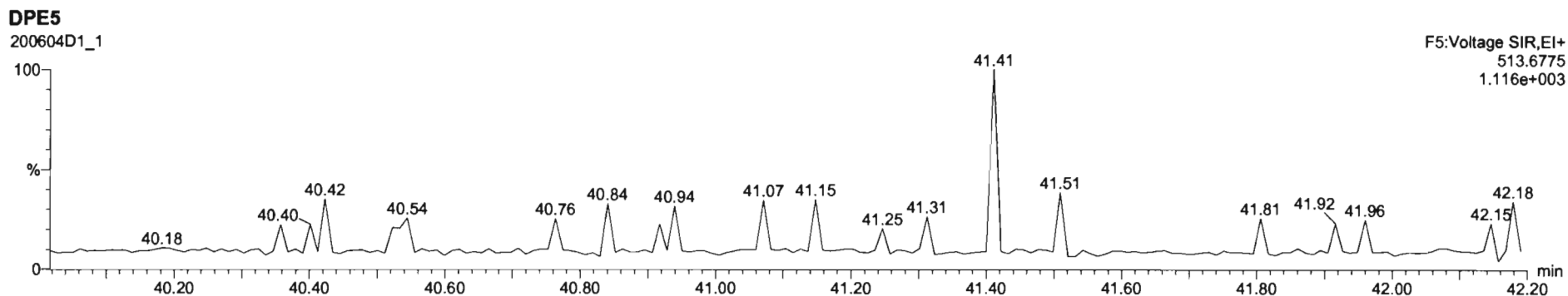
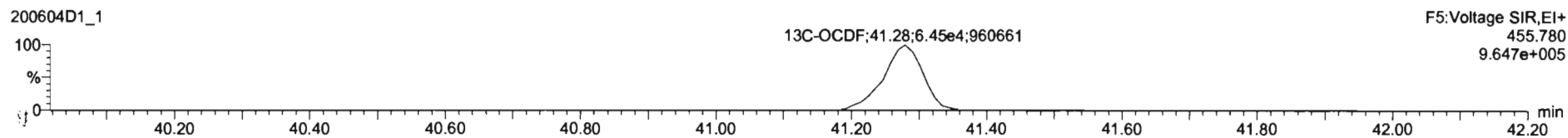
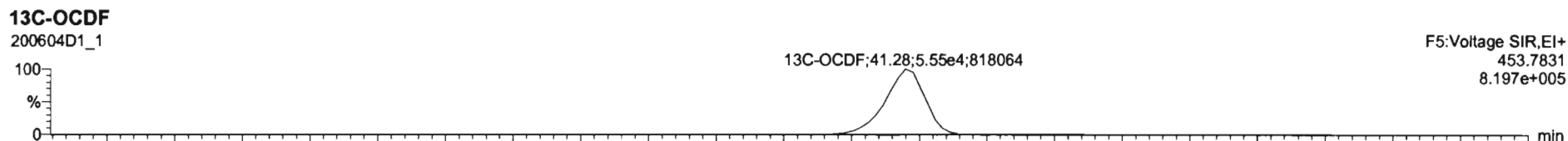
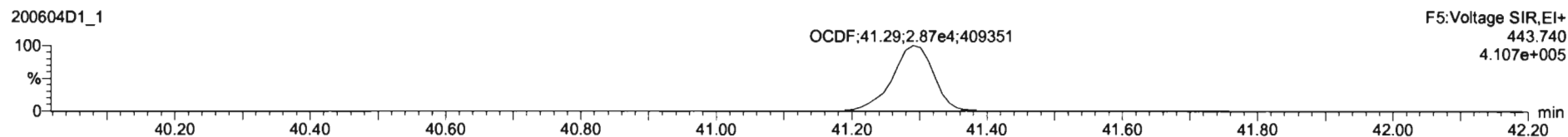
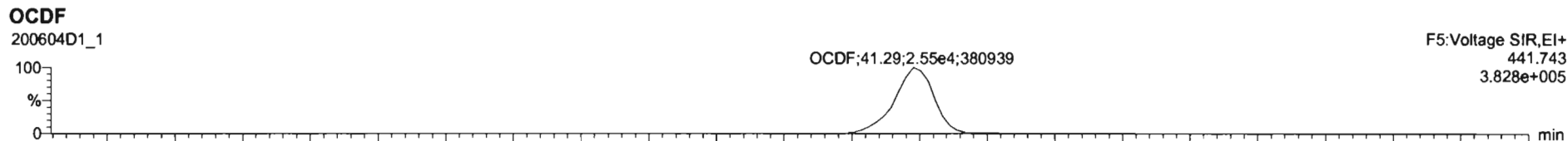
**DPE4**



Dataset: U:\VG7.PRO\Results\200604D1\200604D1\_1.qld

Last Altered: Thursday, June 04, 2020 12:43:43 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 12:47:22 Pacific Daylight Time

Name: 200604D1\_1, Date: 04-Jun-2020, Time: 12:00:23, ID: ST200604D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

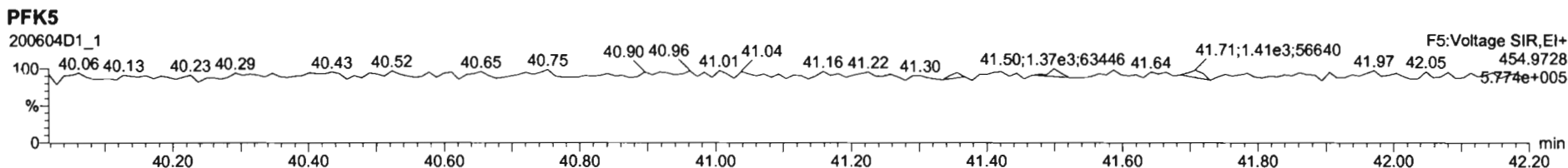
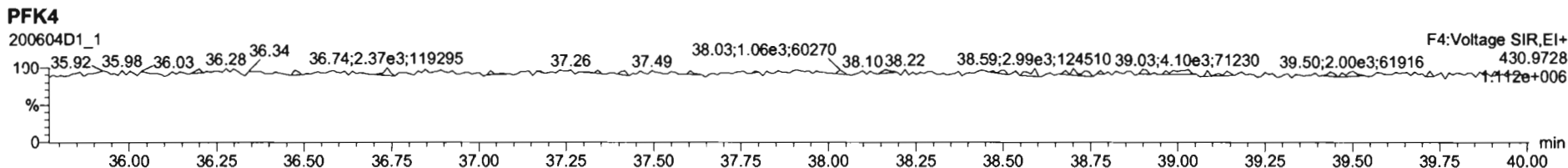
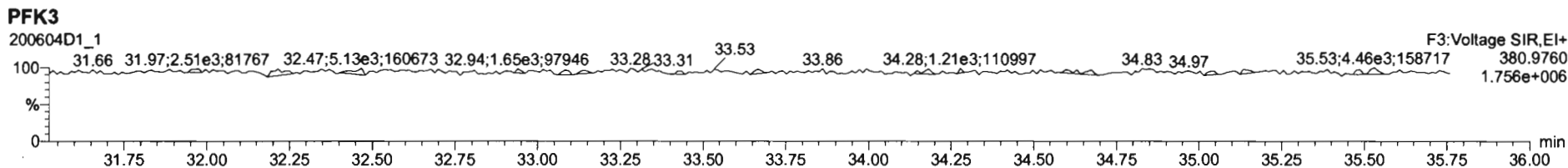
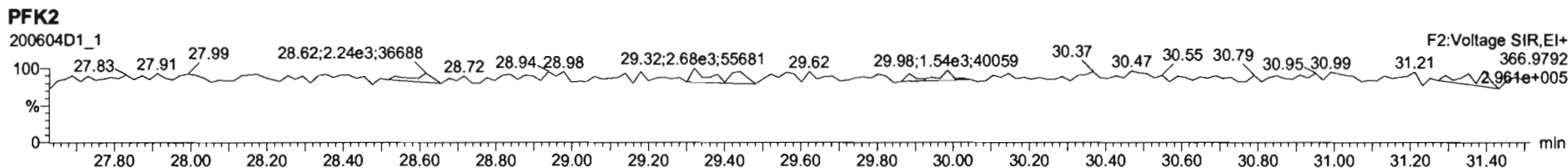
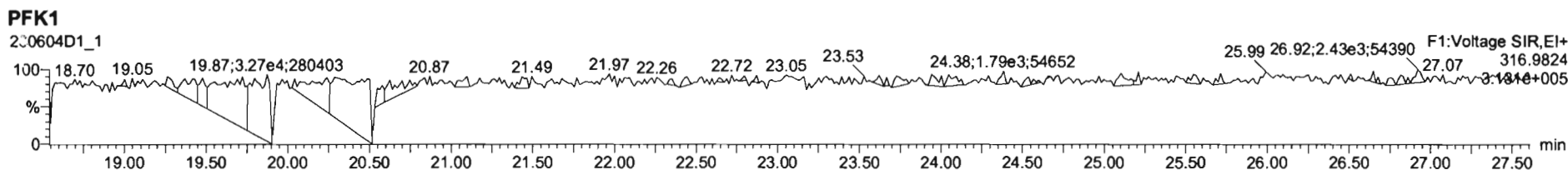




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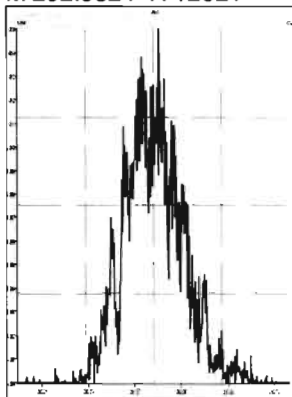
Last Altered: Thursday, June 04, 2020 12:43:43 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 12:47:22 Pacific Daylight Time

Name: 200604D1\_1, Date: 04-Jun-2020, Time: 12:00:23, ID: ST200604D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

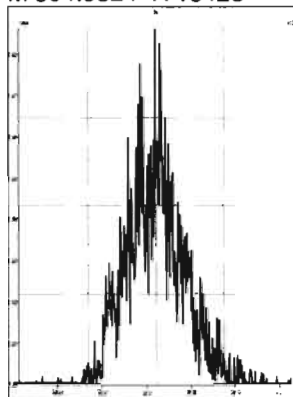


Printed: Thursday, June 04, 2020 23:26:00 Pacific Daylight Time

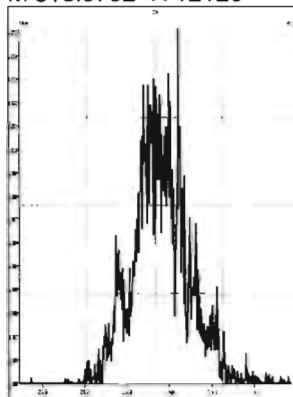
M 292.9824 R 12021



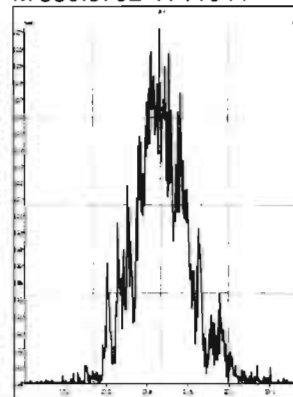
M 304.9824 R 15428



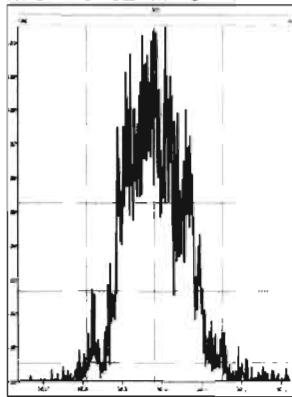
M 318.9792 R 12126



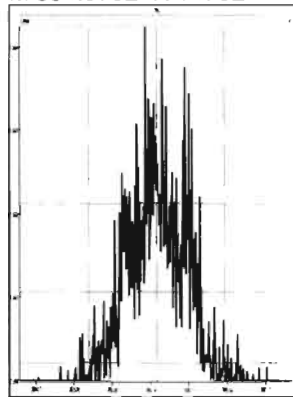
M 330.9792 R 11944



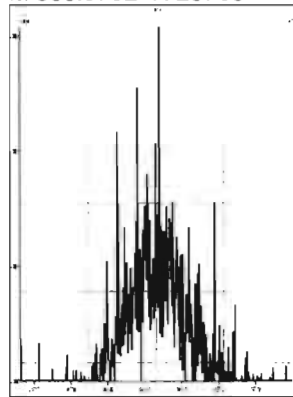
M 342.9792 R 13447



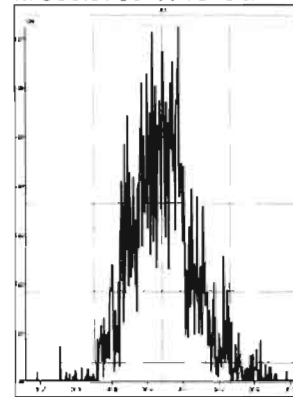
M 354.9792 R 14792



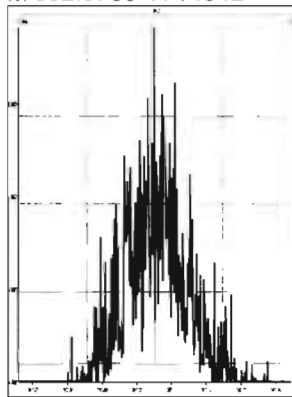
M 366.9792 R 25705



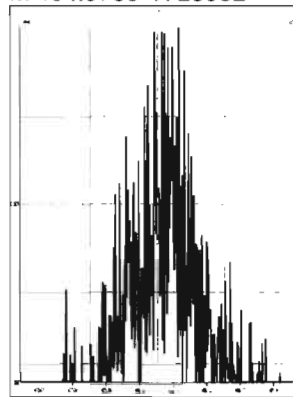
M 380.9760 R 13494



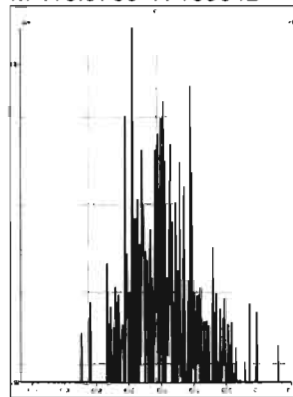
M 392.9760 R 14342



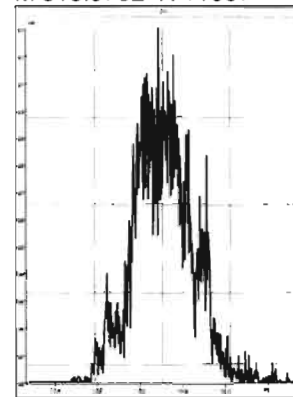
M 404.9760 R 23932



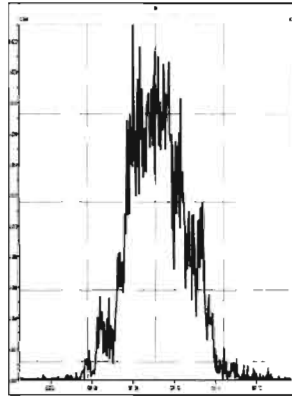
M 416.9760 R 169642



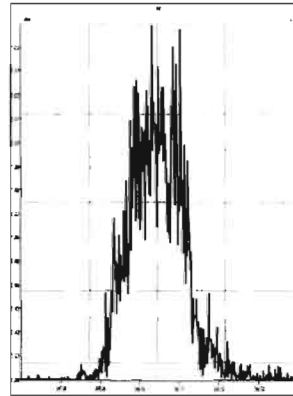
M 318.9792 R 11557



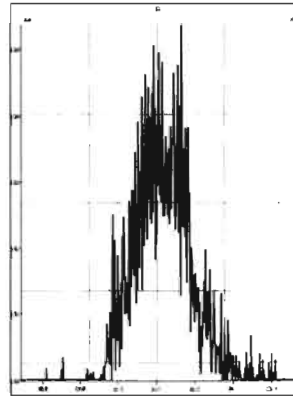
M 330.9792 R 12209



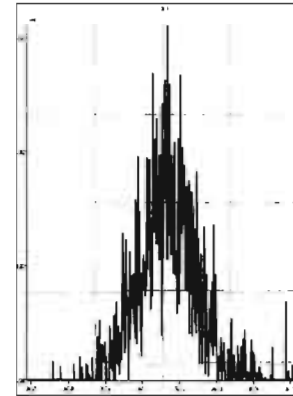
M 342.9792 R 14705



M 354.9792 R 14769

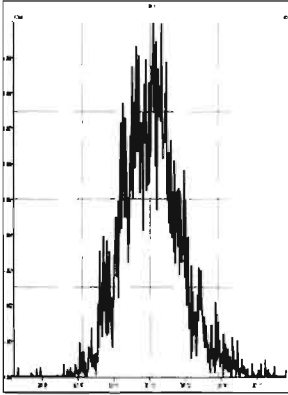


M 366.9792 R 16967

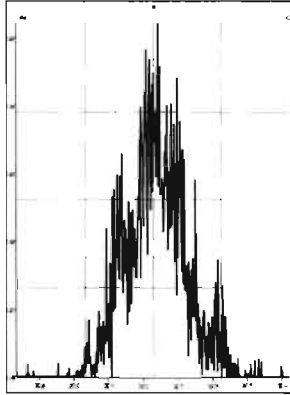


Printed: Thursday, June 04, 2020 23:26:00 Pacific Daylight Time

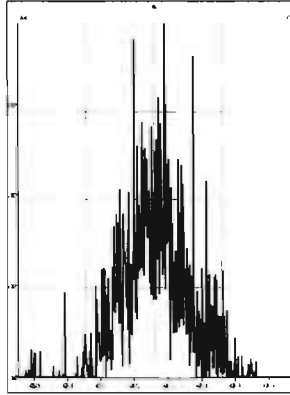
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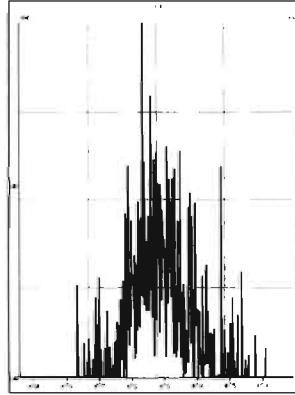
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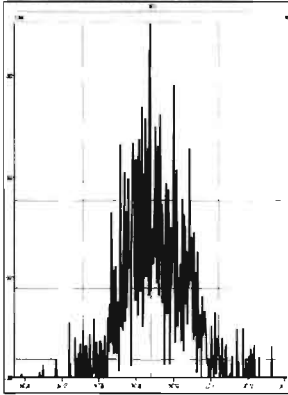
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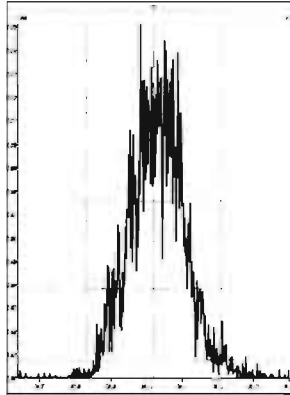
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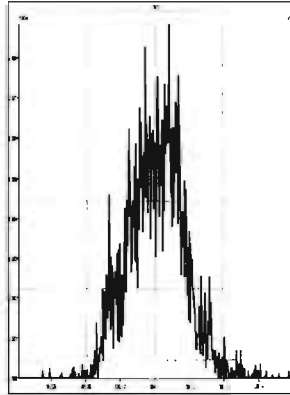
M 366.9792 R 21826



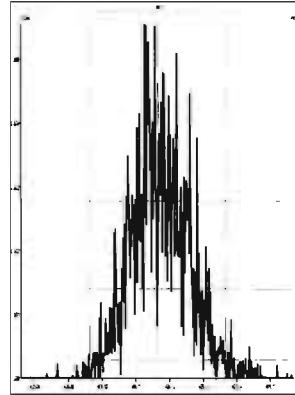
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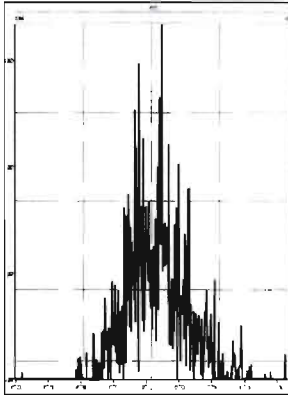
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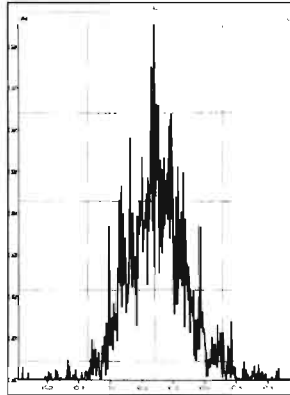
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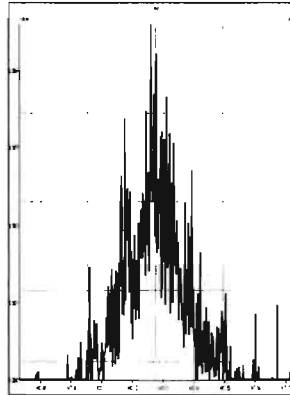
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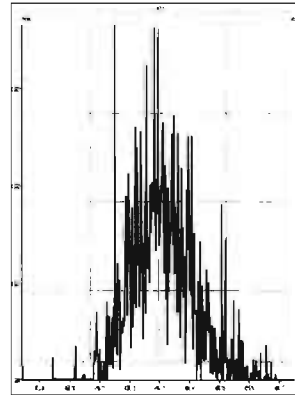
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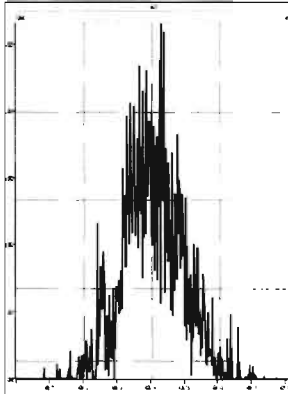
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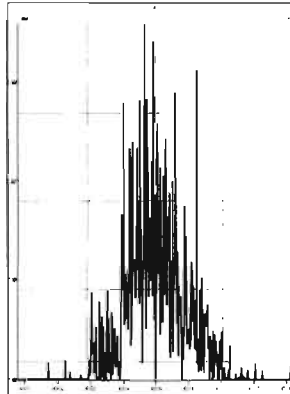
M 454.9728 R 14651



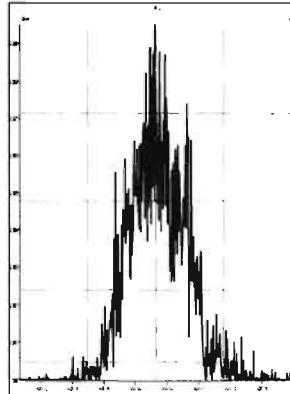
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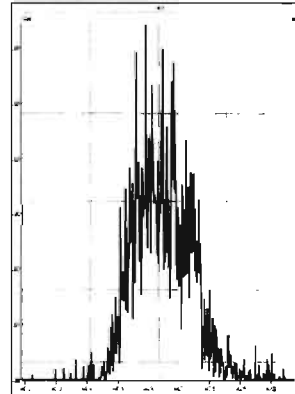
M 416.9760 R 29230



M 430.9728 R 12651

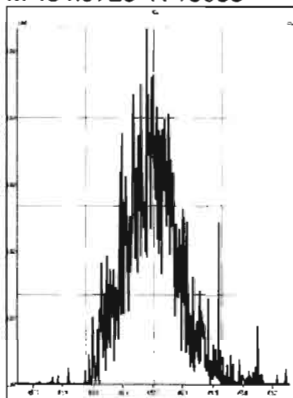


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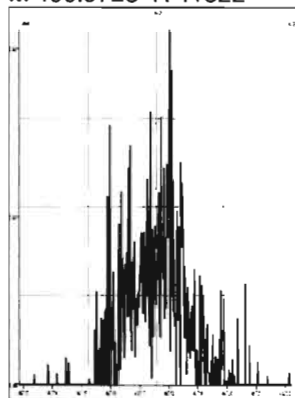


Printed: Thursday, June 04, 2020 23:26:00 Pacific Daylight Time

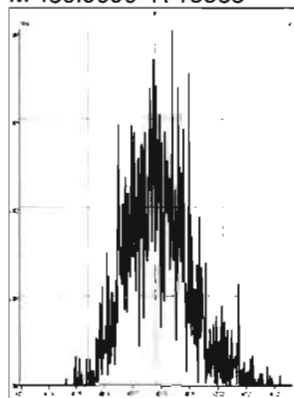
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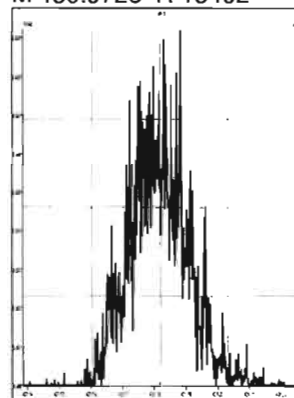
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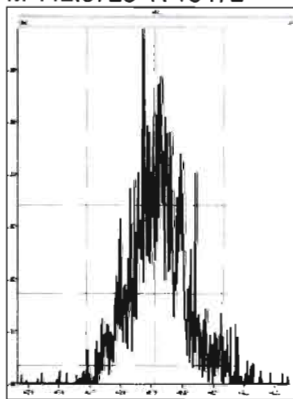
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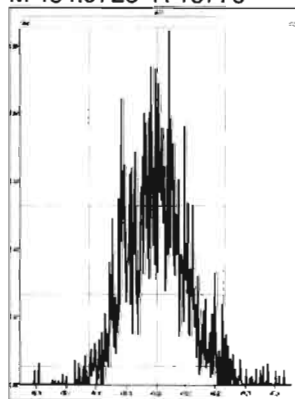
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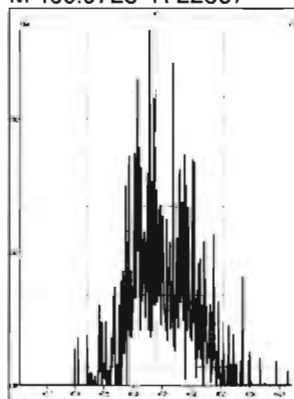
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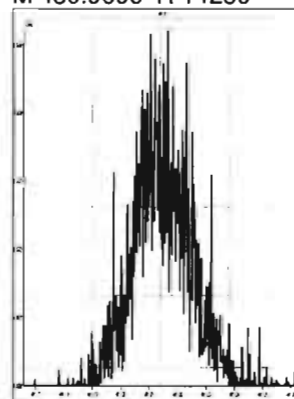
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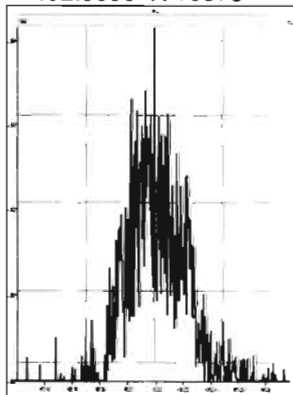
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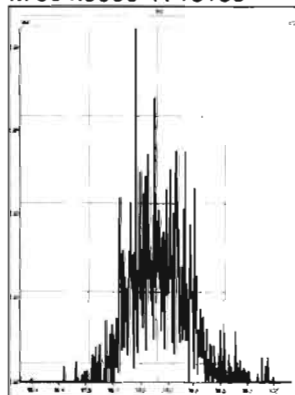
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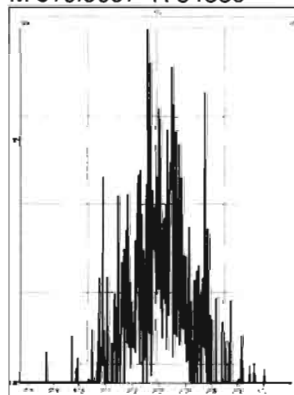
M 492.9696 R 15975



M 504.9696 R 18183



M 516.9697 R 54880



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST200609D1-1

**Reviewed By:** CT 06/10/2020  
*Initials & Date*

**End Calibration ID:** NA

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

Dataset: U:\VG7.PRO\Results\200609D1\200609D1\_2.qld

Last Altered: Tuesday, June 09, 2020 14:23:22 Pacific Daylight Time  
Printed: Tuesday, June 09, 2020 14:24:46 Pacific Daylight Time

*DB 6/9/20 (706/10/2020)*

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: 200609D1\_2, Date: 09-Jun-2020, Time: 14:01:10, ID: ST200609D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	1.90e3	0.81	NO	0.982	1.000	17.631	17.65	1.000	1.002	8.4344	84.3 <i>84-120</i>	0.919	8.43
2	2 13C-2,3,7,8-TCDF	2.30e4	0.71	NO	1.08	1.000	17.677	17.61	1.133	1.135	93.671	93.7 <i>71-140</i>	2.78	
3	3 13C-1,2,3,4-TCDF	2.27e4	0.75	NO	1.00	1.000	15.660	15.52	1.000	1.000	100.00	100	3.01	



Dataset: Untitled

Last Altered: Wednesday, June 10, 2020 09:05:30 Pacific Daylight Time  
Printed: Wednesday, June 10, 2020 09:05:45 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

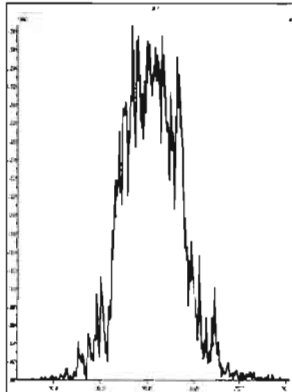
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200609D1_1	CP200609D1-1 DB-225 CPSM	09-Jun-20	13:15:34
2	200609D1_2	ST200609D1-1 1613 CS3 19L2305	09-Jun-20	14:01:10
3	200609D1_3	SOLVENT BLANK	09-Jun-20	14:31:00
4	200609D1_4	2000965-14RE1 PDI-163SC-A-04-05-200425 ...	09-Jun-20	15:02:16
5	200609D1_5	2000945-01RE1 PDI-146SC-A-00-01-200426 ...	09-Jun-20	15:33:55
6	200609D1_6	2000945-02RE1 PDI-146SC-A-01-02-200426 ...	09-Jun-20	16:05:37
7	200609D1_7	B0D0306-DUP1RE1 Duplicate	09-Jun-20	16:37:19
8	200609D1_8	2000998-06RE1 PDI-063SC-B-05-07-200429 ...	09-Jun-20	17:09:00
9	200609D1_9	2000998-04RE1 PDI-063SC-B-00-02-200429 ...	09-Jun-20	17:40:42
10	200609D1_10	2000965-10RE1 PDI-163SC-A-00-01-200425 ...	09-Jun-20	18:12:23
11	200609D1_11	2000965-12RE1 PDI-163SC-A-02-03-200425 ...	09-Jun-20	18:44:04
12	200609D1_12	B0E0020-DUP1RE1 Duplicate	09-Jun-20	19:15:45
13	200609D1_13	2000998-05RE1 PDI-063SC-B-02-05-200429 ...	09-Jun-20	19:47:27
14	200609D1_14	B0E0100-DUP2RE1 Duplicate	09-Jun-20	20:19:08
15	200609D1_15	2000965-09RE1 PDI-1163SC-A-01-02-200425...	09-Jun-20	20:50:49
16	200609D1_16	2000965-11RE1 PDI-163SC-A-01-02-200425 ...	09-Jun-20	21:22:33
17	200609D1_17	2000995-03RE1 PDI-068SC-B-00-02-200430 ...	09-Jun-20	21:54:12
18	200609D1_18	2000995-04RE1 PDI-068SC-B-02-05-200430 ...	09-Jun-20	22:25:54
19	200609D1_19	2000995-05RE1 PDI-068SC-B-05-07-200430 ...	09-Jun-20	22:57:36
20	200609D1_20	2000995-08RE1 PDI-072SC-B-00-02-200430 ...	09-Jun-20	23:29:18

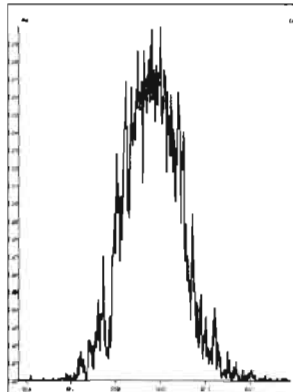
File: Experiment: tcdf\_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, June 09, 2020 13:14:48 Pacific Daylight Time

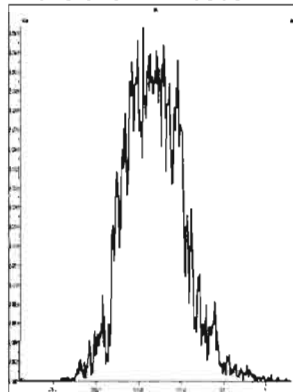
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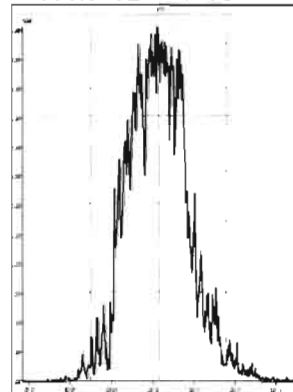
M 304.9824 R 11058



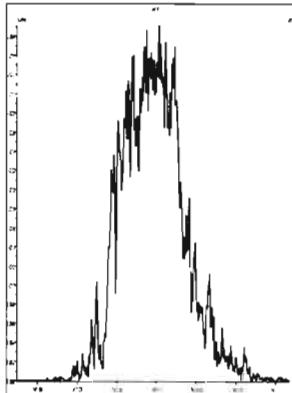
M 318.9792 R 10505



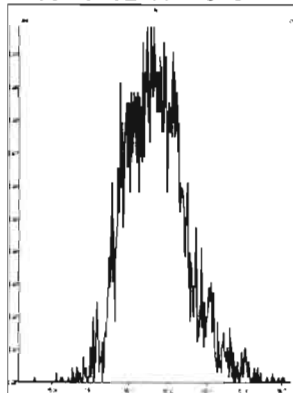
M 330.9792 R 11961



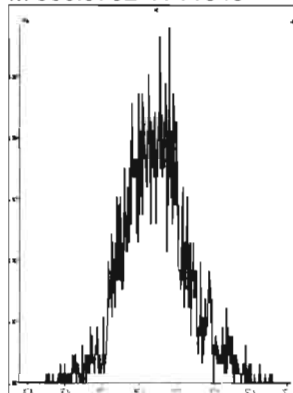
M 342.9792 R 11959



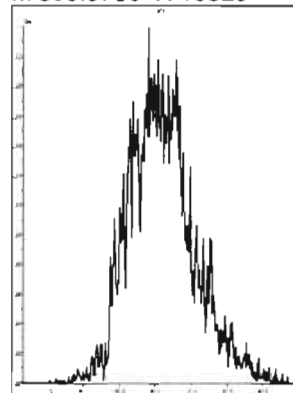
M 354.9792 R 12020



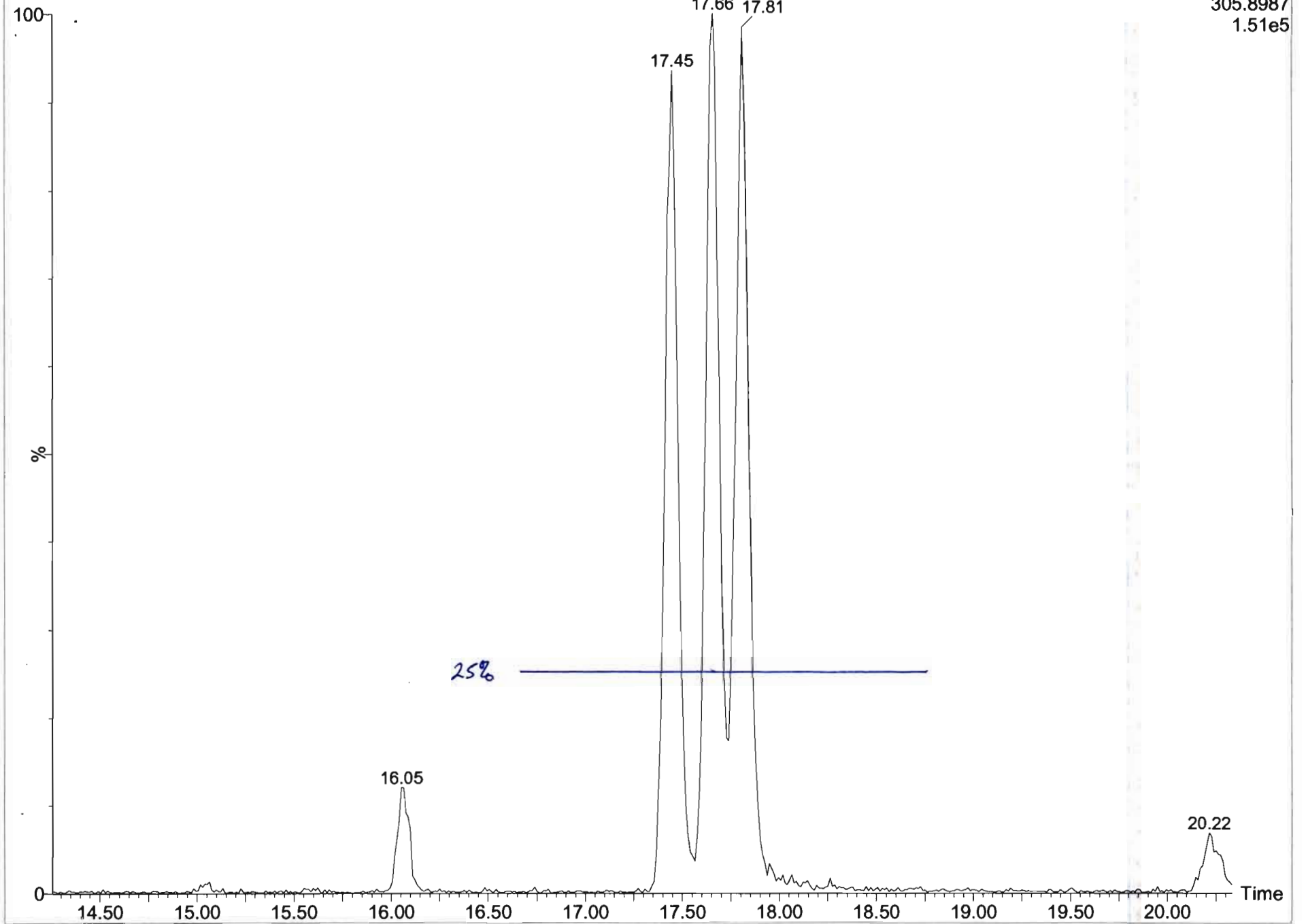
M 366.9792 R 11848



M 380.9760 R 10329







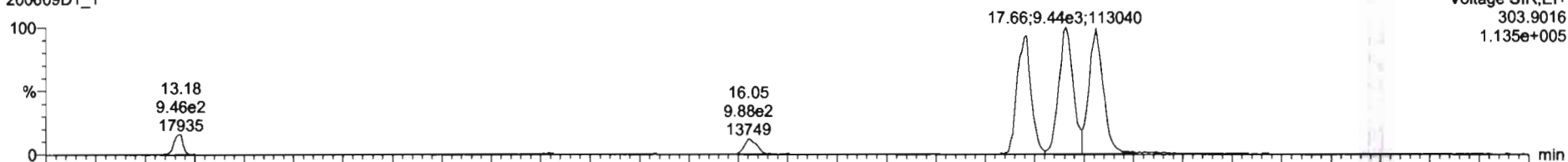
Dataset: U:\VG7.PRO\Results\200609D1\200609D1\_1.qld

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Printed: Tuesday, June 09, 2020 14:26:26 Pacific Daylight Time

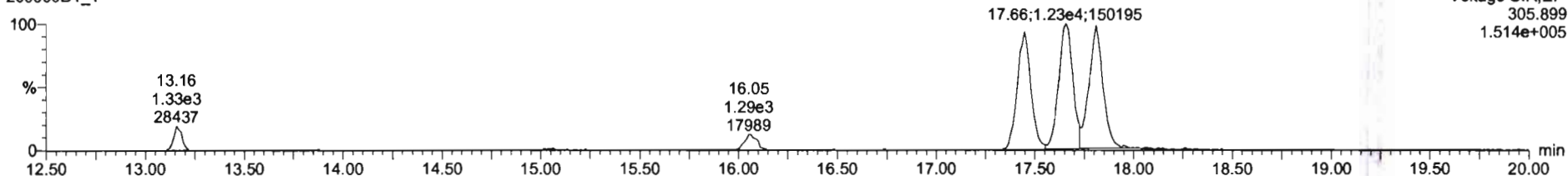
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Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

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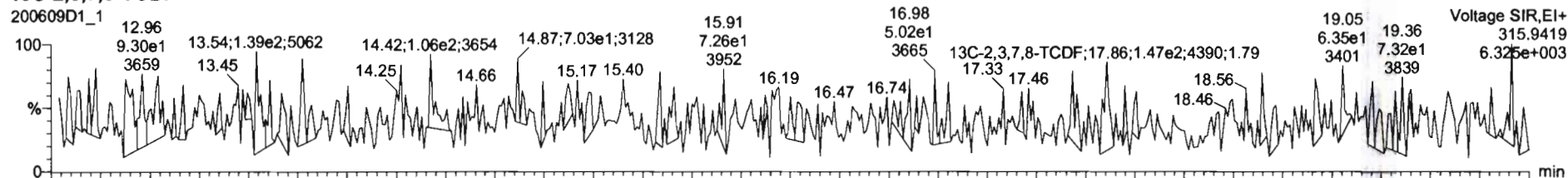
2,3,7,8-TCDF  
200609D1\_1



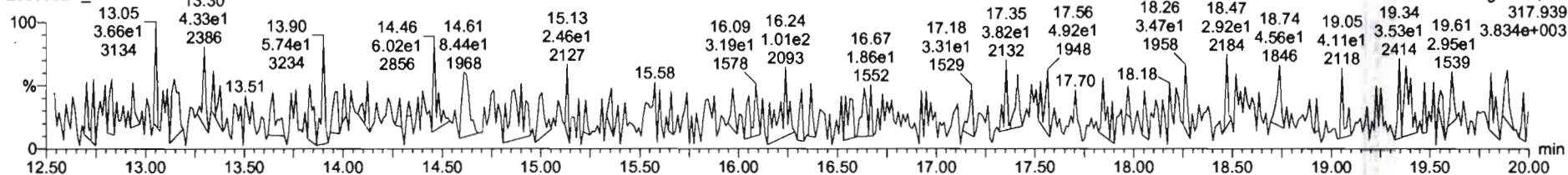
200609D1\_1



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



200609D1\_1

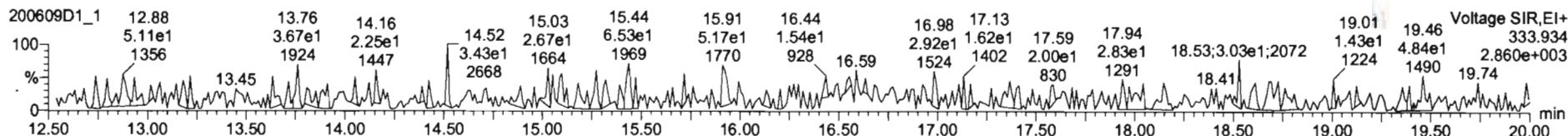
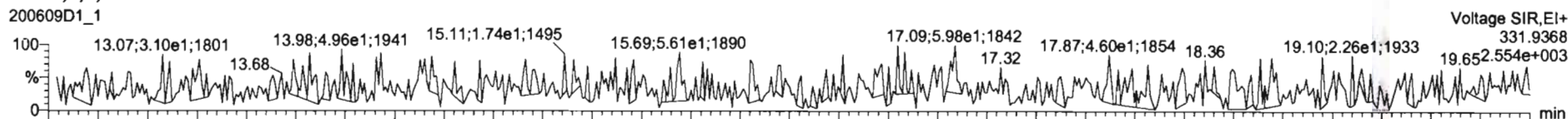


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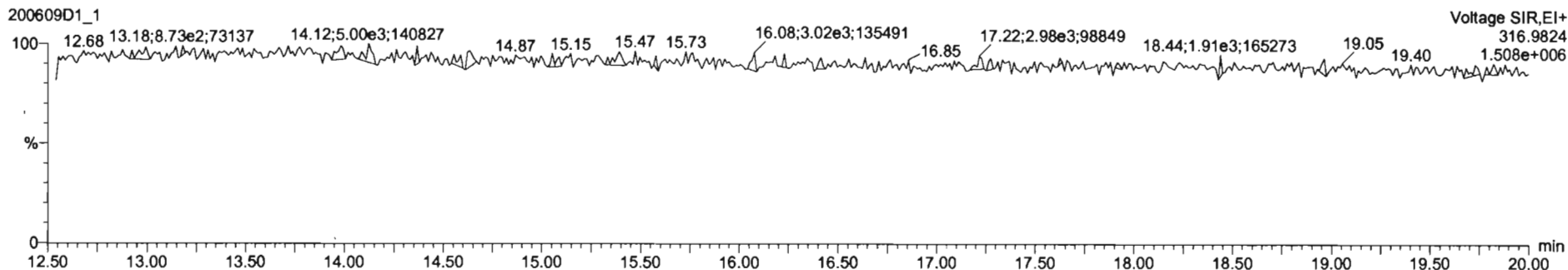
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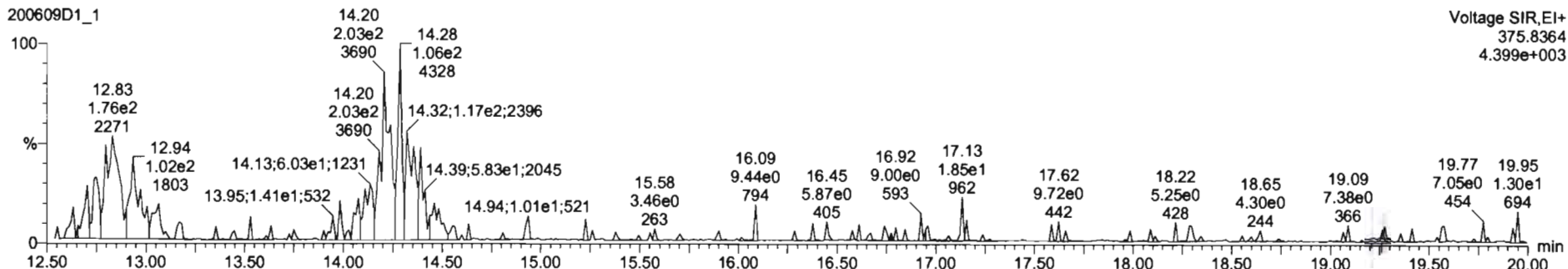
13C-1,2,3,4-TCDD



PFK1



DPE1



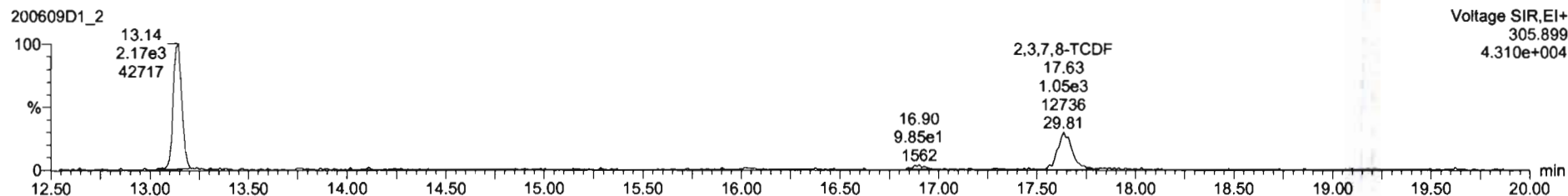
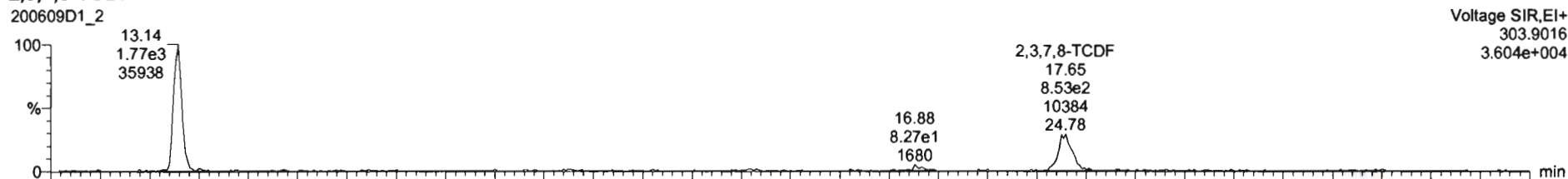
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Printed: Tuesday, June 09, 2020 14:25:05 Pacific Daylight Time

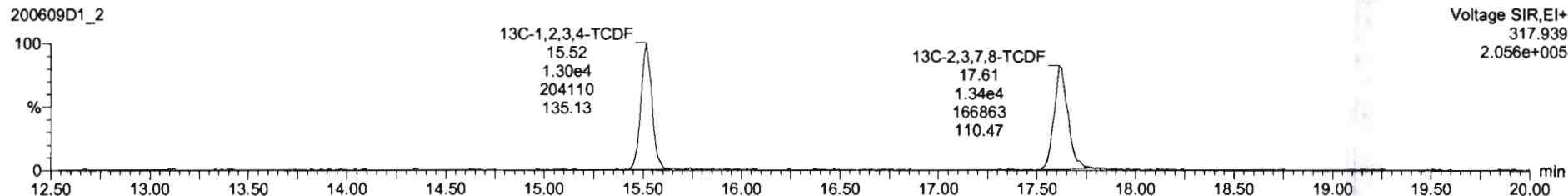
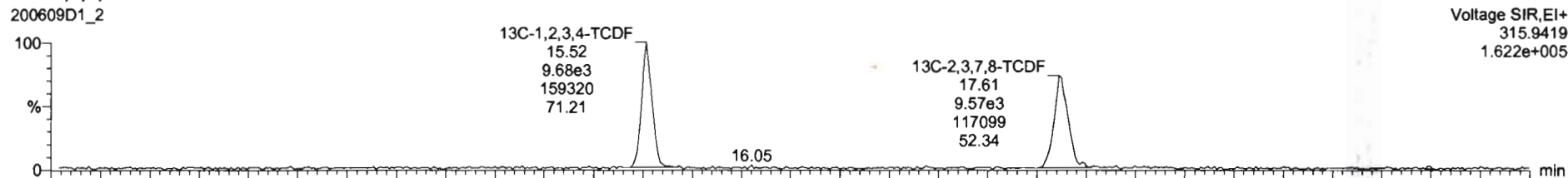
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Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200609D1\_2, Date: 09-Jun-2020, Time: 14:01:10, ID: ST200609D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF



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



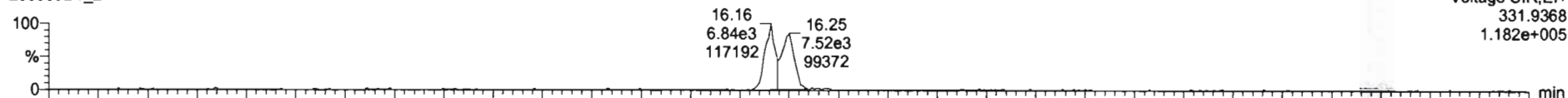
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Printed: Tuesday, June 09, 2020 14:25:05 Pacific Daylight Time

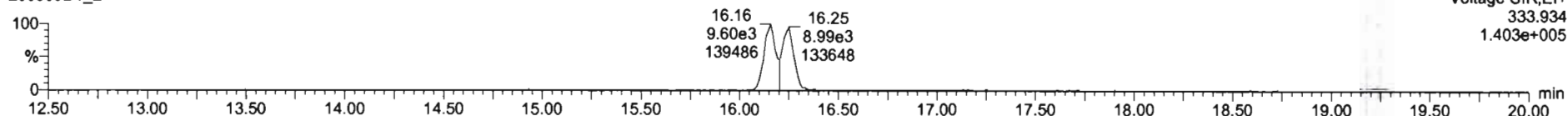
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13C-1,2,3,4-TCDD

200609D1\_2

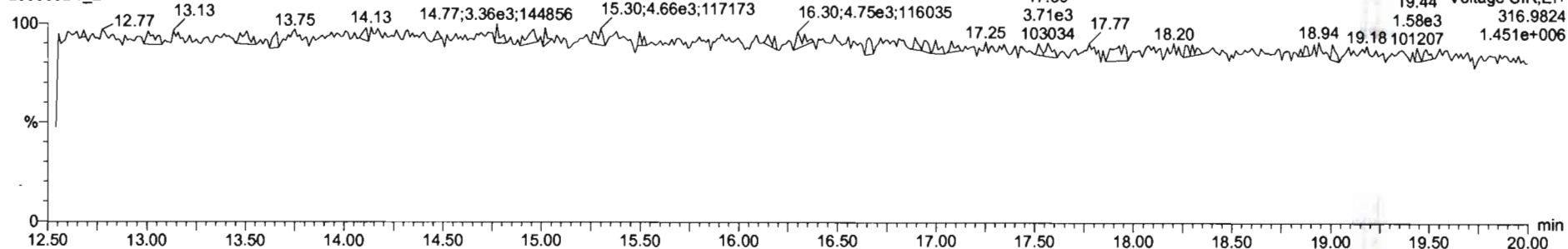


200609D1\_2



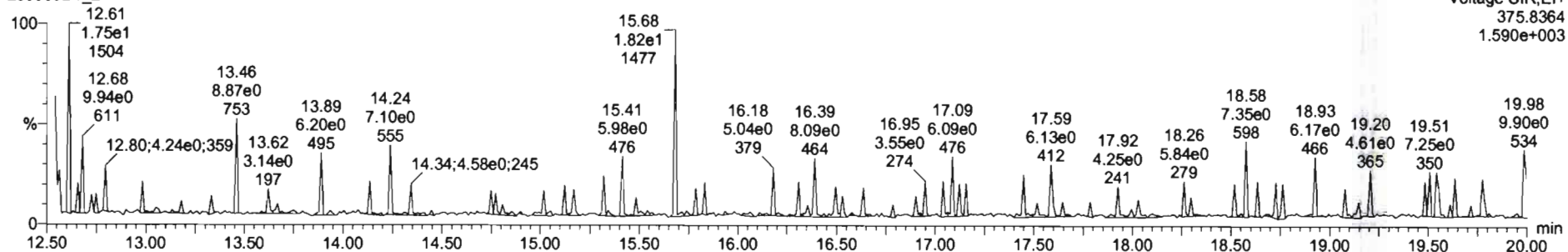
PFK1

200609D1\_2



DPE1

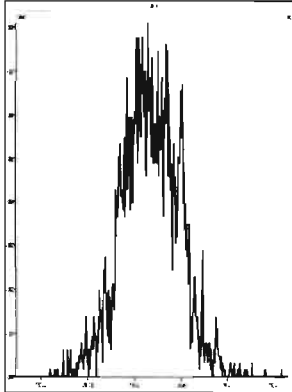
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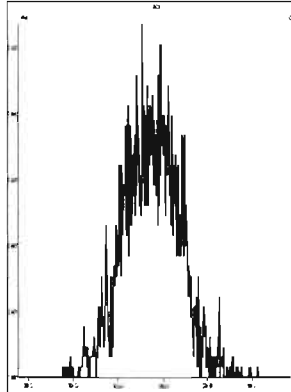
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Printed: Wednesday, June 10, 2020 00:03:15 Pacific Daylight Time

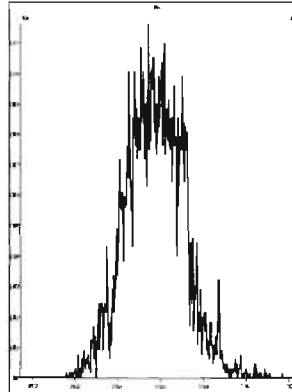
M 292.9824 R 13223



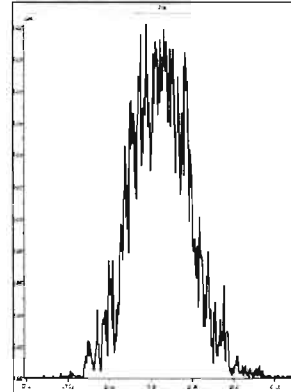
M 304.9824 R 13228



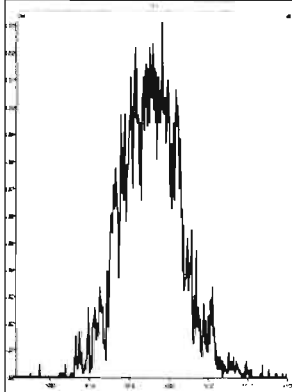
M 318.9792 R 10822



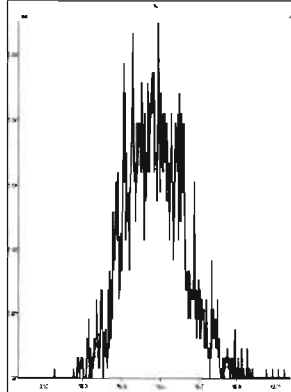
M 330.9792 R 12252



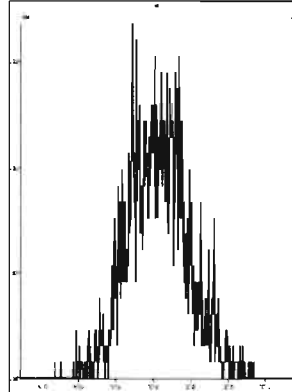
M 342.9792 R 10777



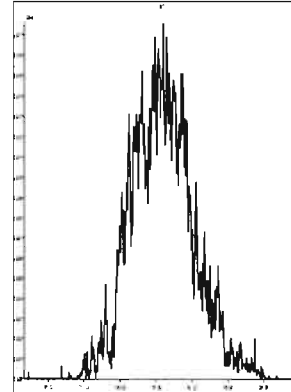
M 354.9792 R 12820



M 366.9792 R 10458



M 380.9760 R 12132



## **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

Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

Compound name: 2,3,4,7,8-PeCDF

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

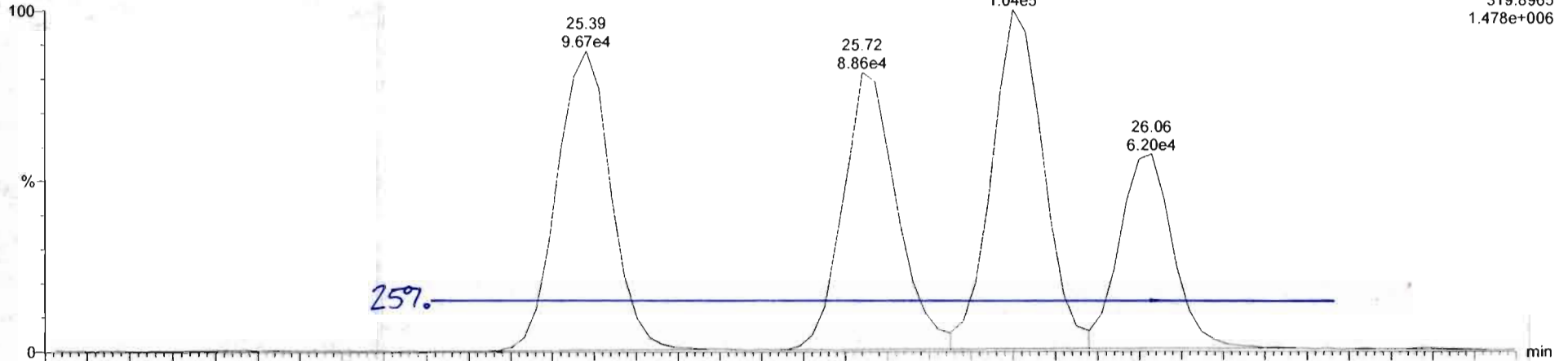
GPB 04/30/2020

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

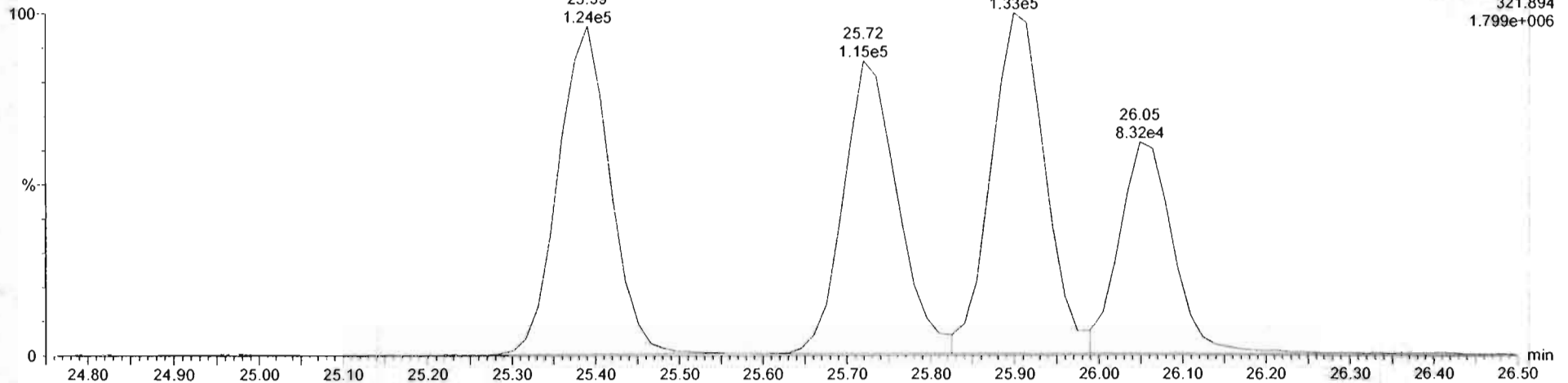
1,3,6,8-TCDD (First)  
200429R2\_4

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

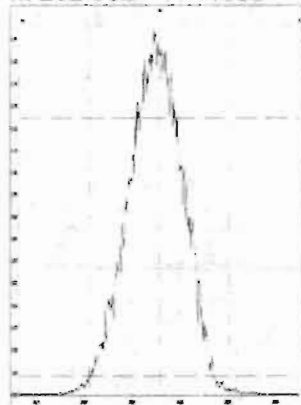
Compound name: 2,3,7,8-TCDD

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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

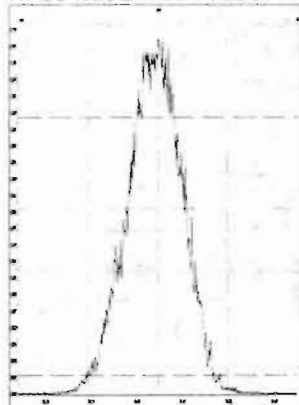
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Printed: Wednesday, April 29, 2020 13:21:30 Pacific Daylight Time

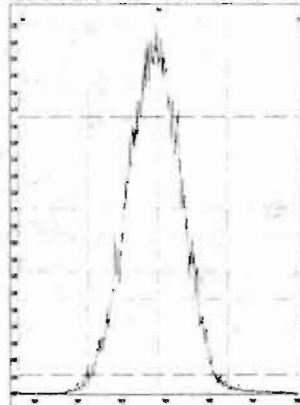
M 292.9824 R 11363



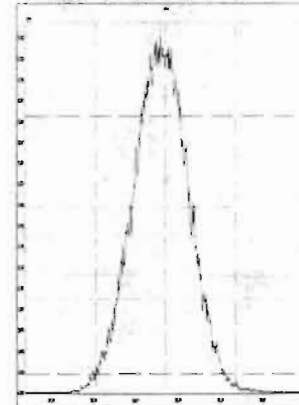
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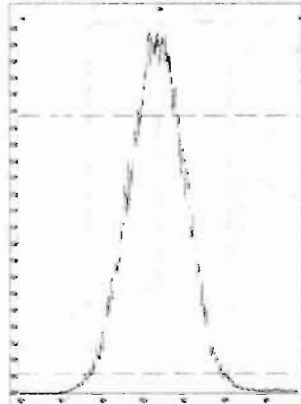
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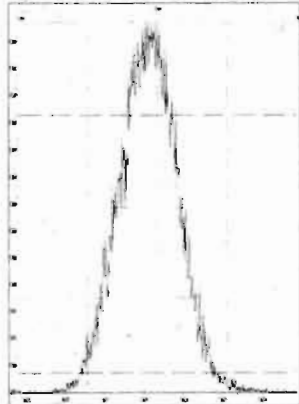
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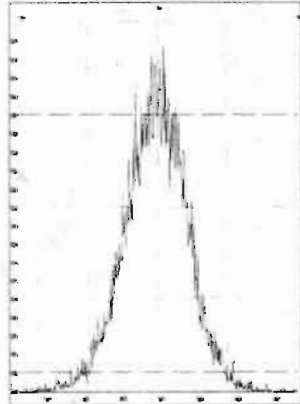
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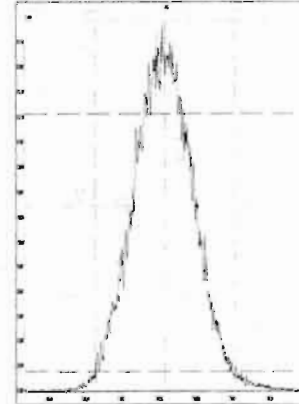
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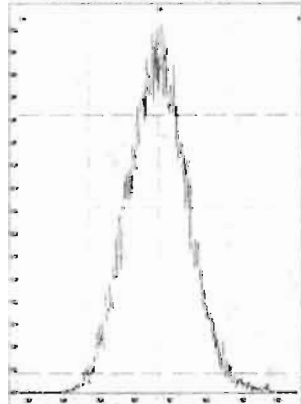
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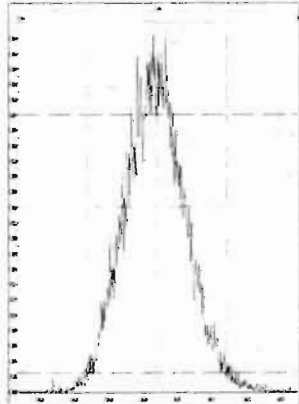
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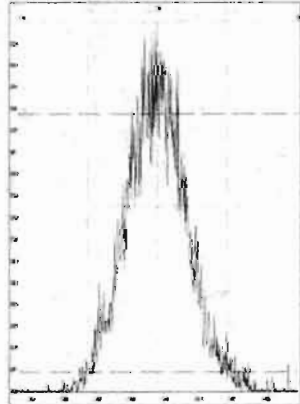
M 392.9760 R 10371



M 404.9760 R 10417



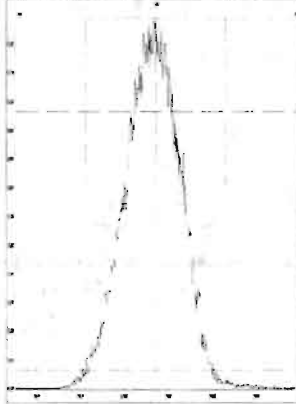
M 416.9760 R 10964



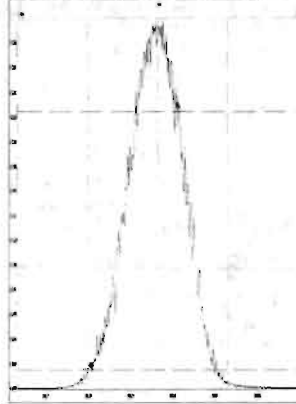
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Printed: Wednesday, April 29, 2020 13:22:18 Pacific Daylight Time

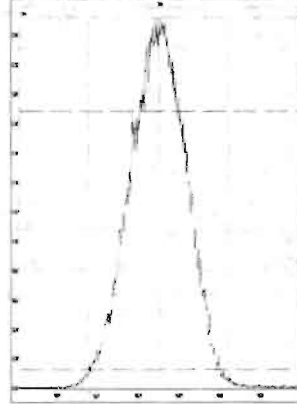
M 318.9792 R 11365



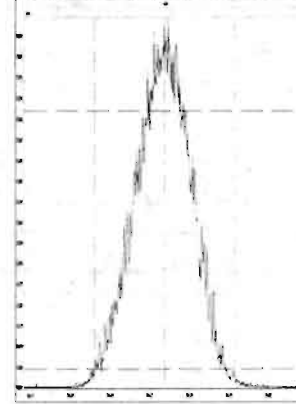
M 330.9792 R 11420



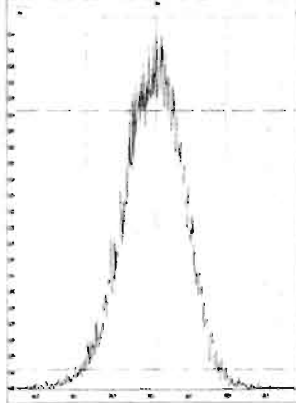
M 342.9792 R 10824



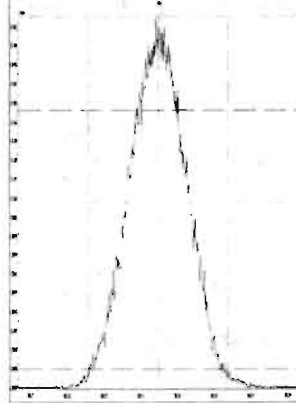
M 354.9792 R 11312



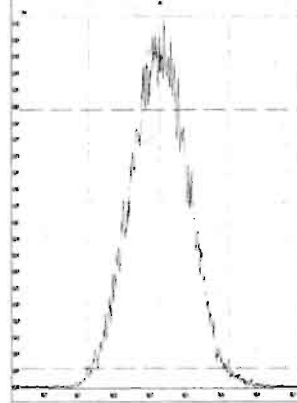
M 366.9792 R 10371



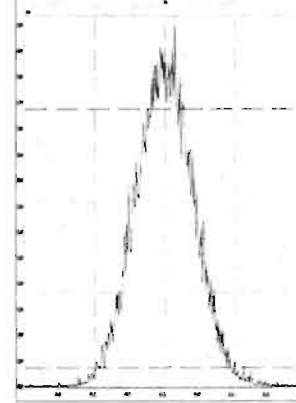
M 380.9760 R 10772



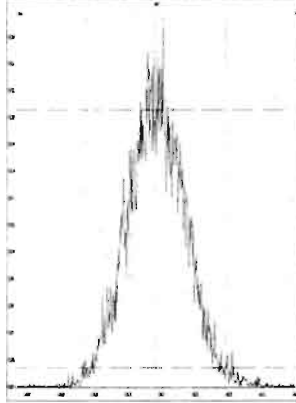
M 392.9760 R 10916



M 404.9760 R 10370



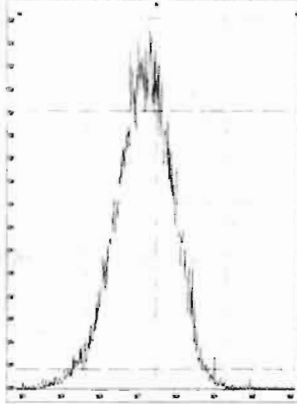
M 416.9760 R 10916



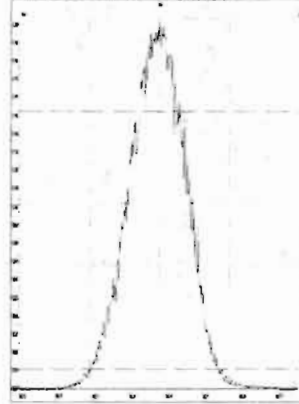
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

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

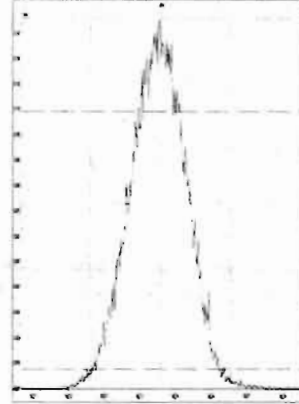
M 366.9792 R 11519



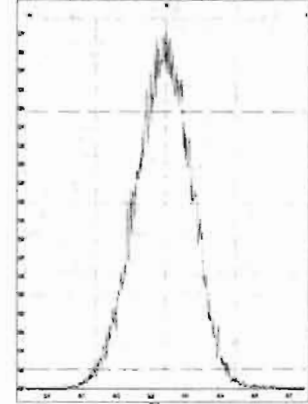
M 380.9760 R 10914



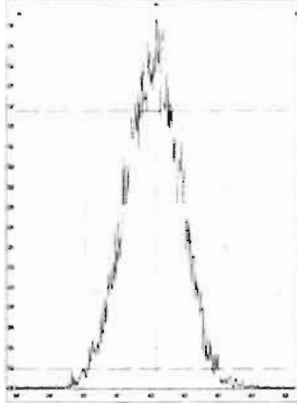
M 392.9760 R 11415



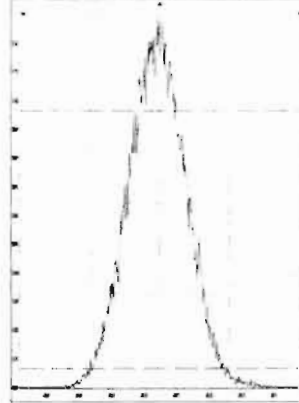
M 404.9760 R 10867



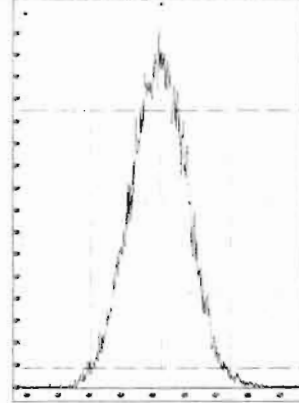
M 416.9760 R 11210



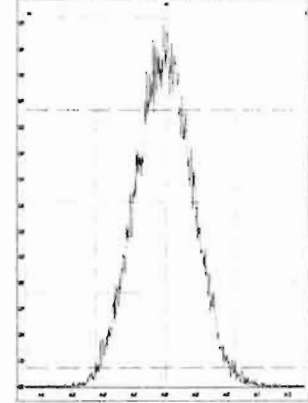
M 430.9728 R 10637



M 442.9728 R 10917



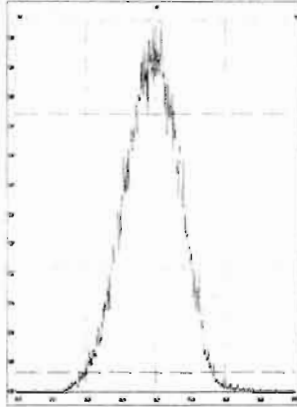
M 454.9728 R 10683



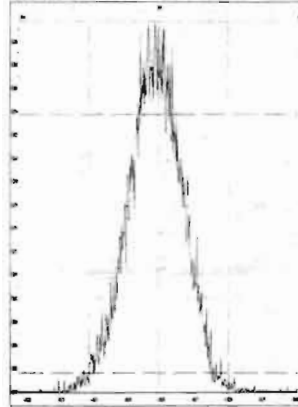
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, April 29, 2020 13:23:14 Pacific Daylight Time

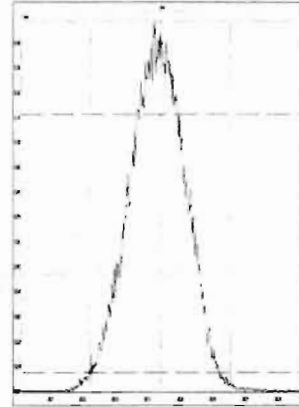
M 404.9760 R 11060



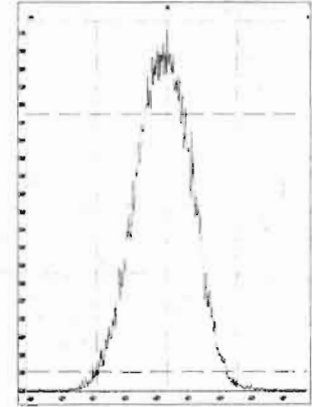
M 416.9760 R 11313



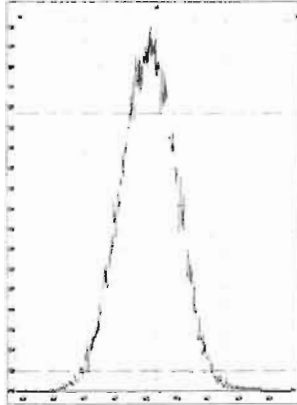
M 430.9728 R 11012



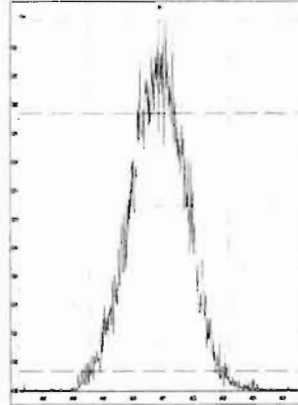
M 442.9728 R 10867



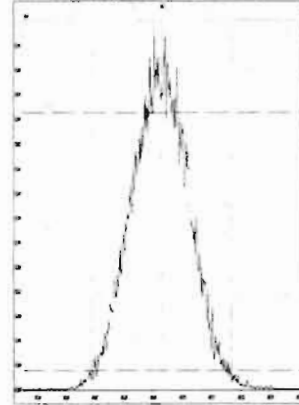
M 454.9728 R 10729



M 466.9728 R 11846



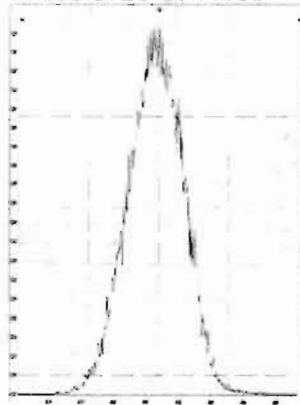
M 480.9696 R 10776



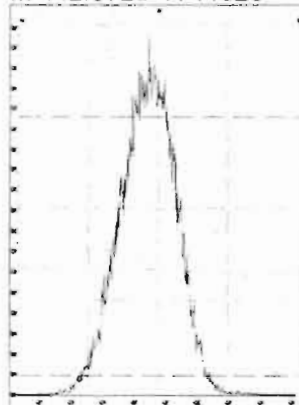
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, April 29, 2020 13:23:43 Pacific Daylight Time

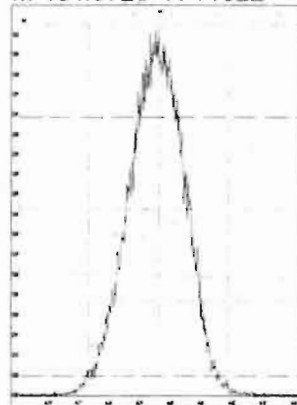
M 430.9728 R 11108



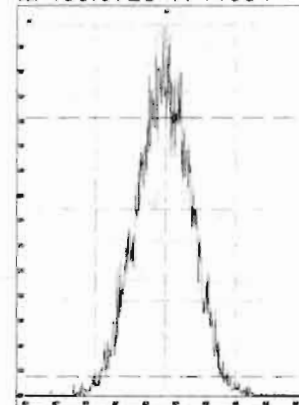
M 442.9728 R 11520



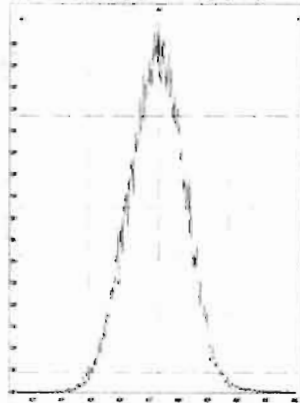
M 454.9728 R 11522



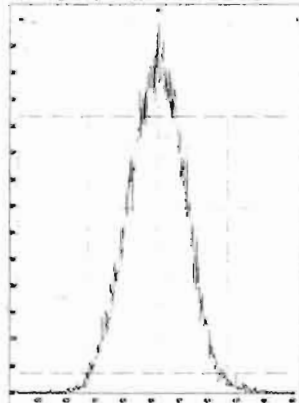
M 466.9728 R 11364



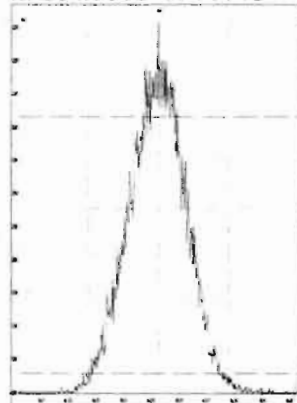
M 480.9696 R 10916



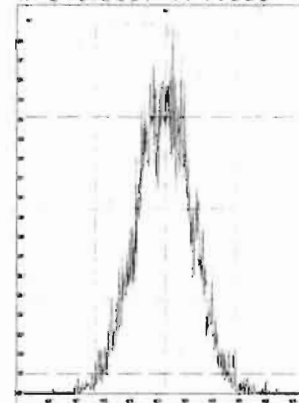
M 492.9696 R 10918



M 504.9696 R 11110



M 516.9697 R 11365



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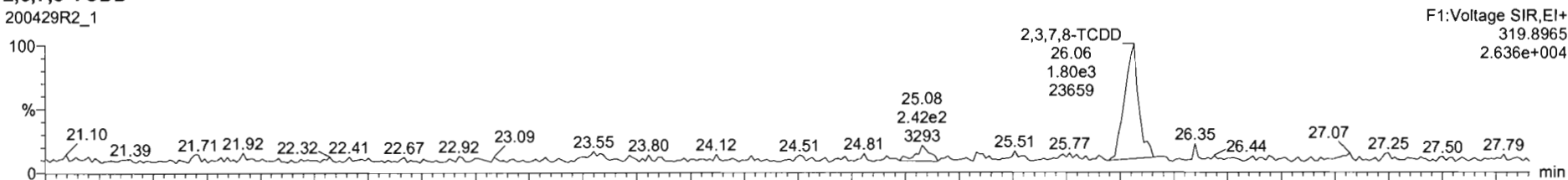
Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time  
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

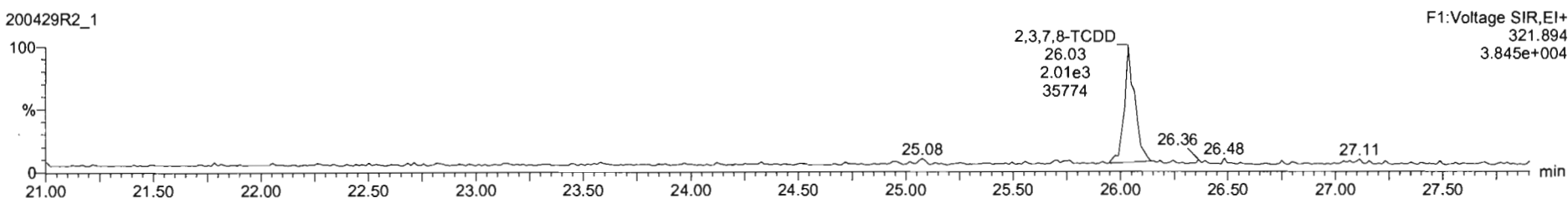
Name: 200429R2\_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2\_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

### 2,3,7,8-TCDD

200429R2\_1

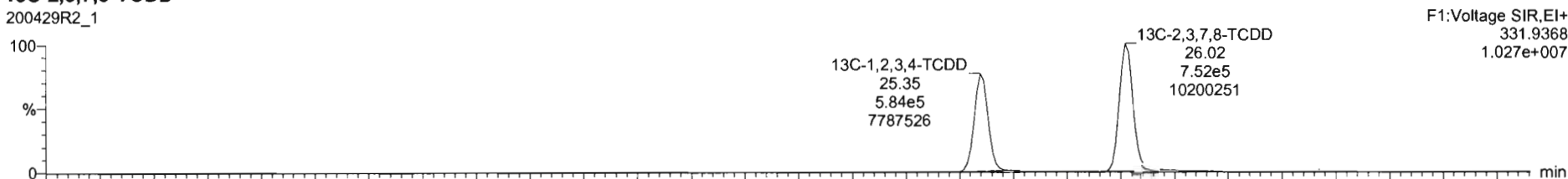


200429R2\_1

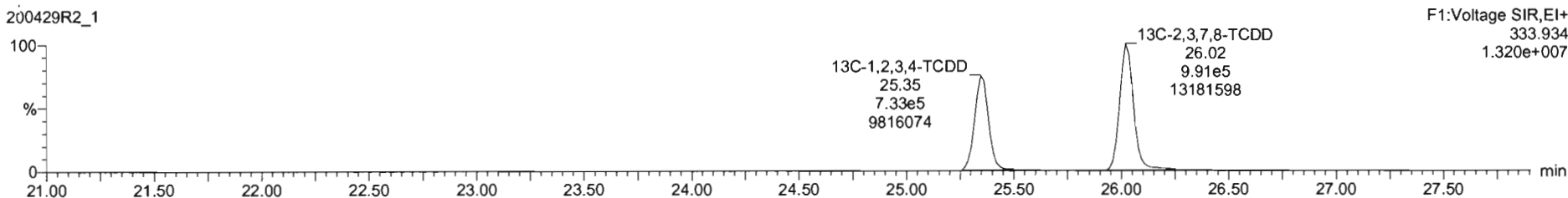


### 13C-2,3,7,8-TCDD

200429R2\_1



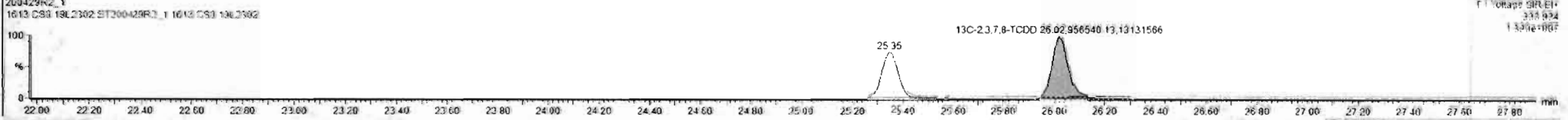
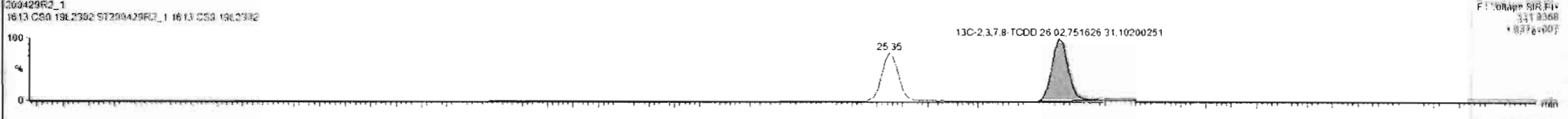
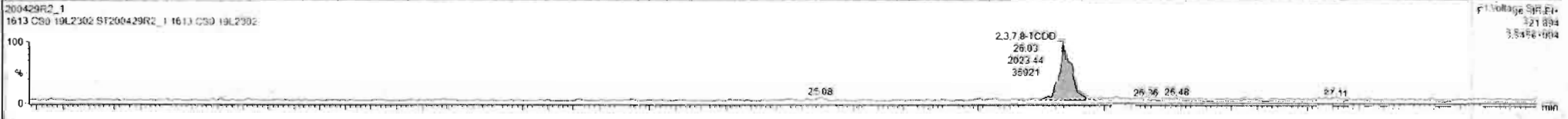
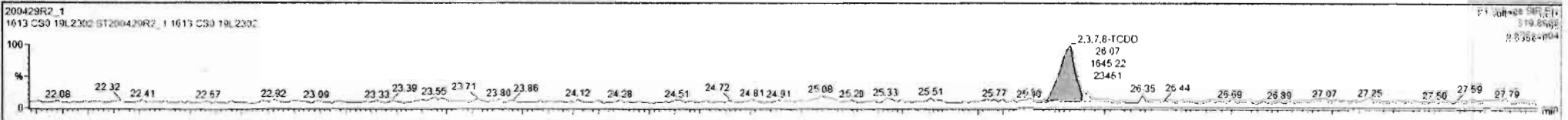
200429R2\_1





200429R2\_1 - ST200429R2\_1 1613 CS0 19L2302 - 1613 CS0 19L2302

#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF U	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	-8.0	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	26.95	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



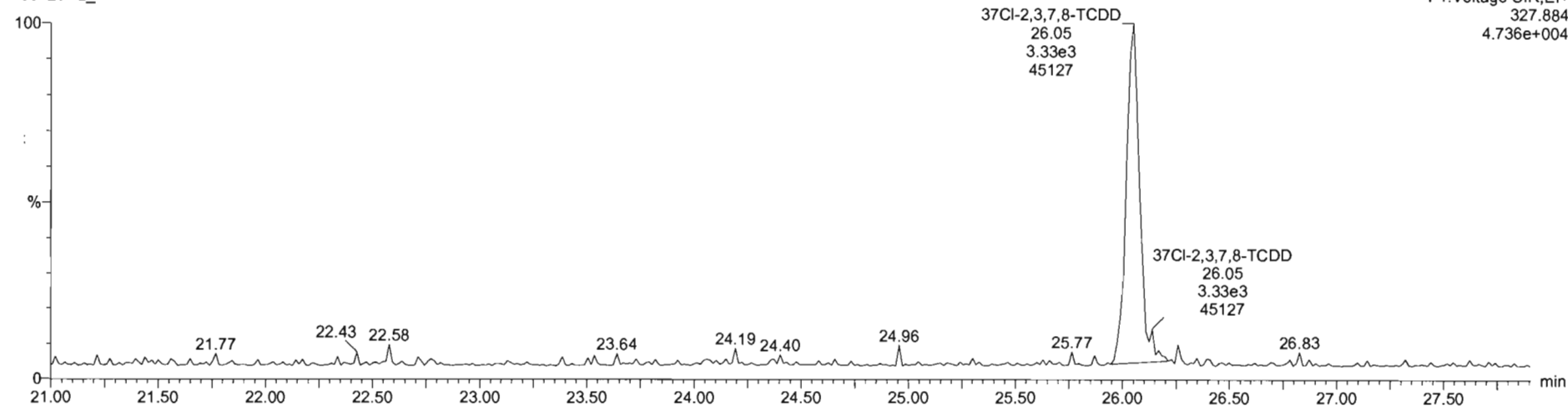
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time  
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2\_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

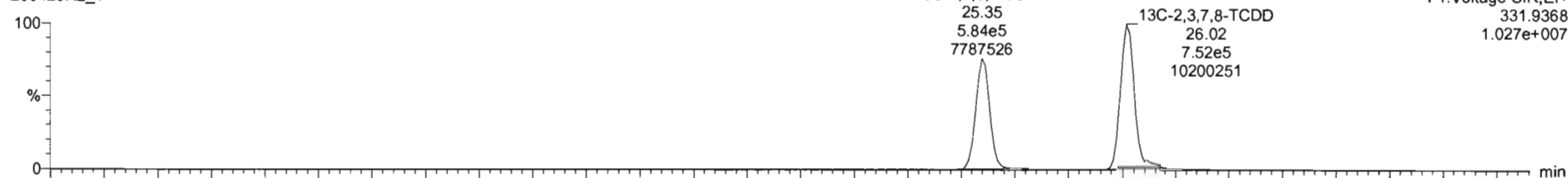
**37Cl-2,3,7,8-TCDD**

200429R2\_1

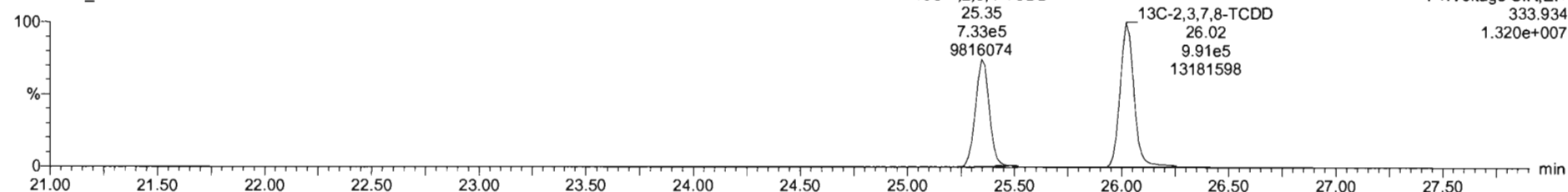


**13C-1,2,3,4-TCDD**

200429R2\_1



200429R2\_1



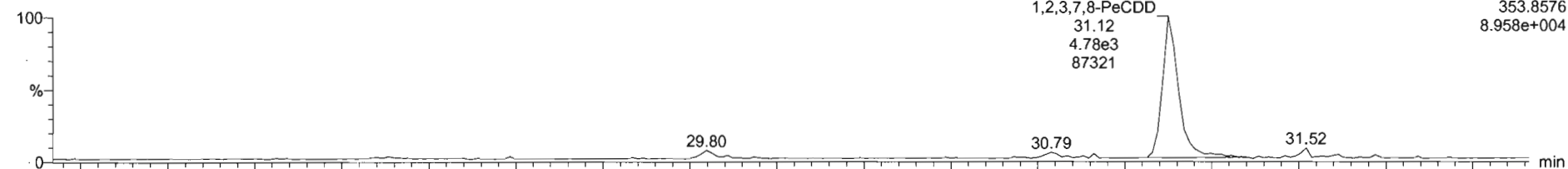
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

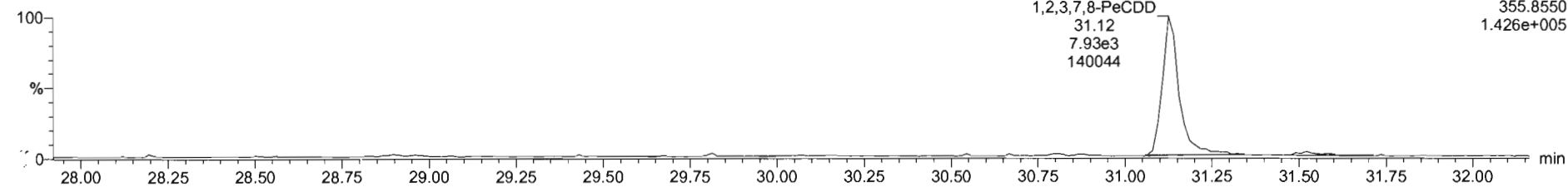
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**1,2,3,7,8-PeCDD**

200429R2\_1

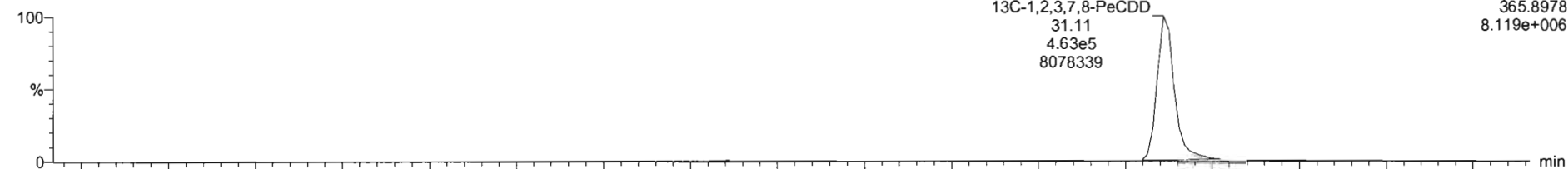


200429R2\_1

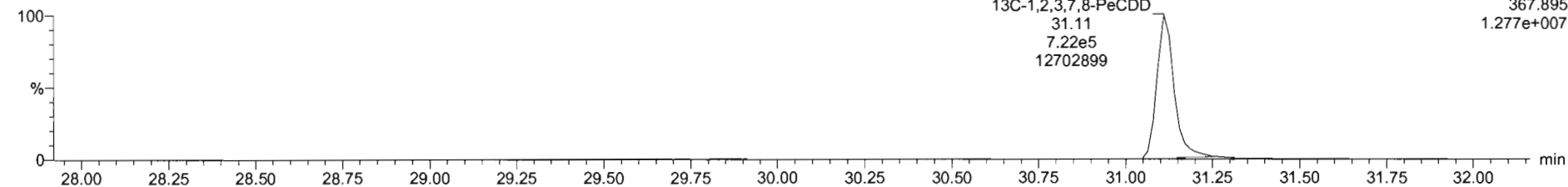


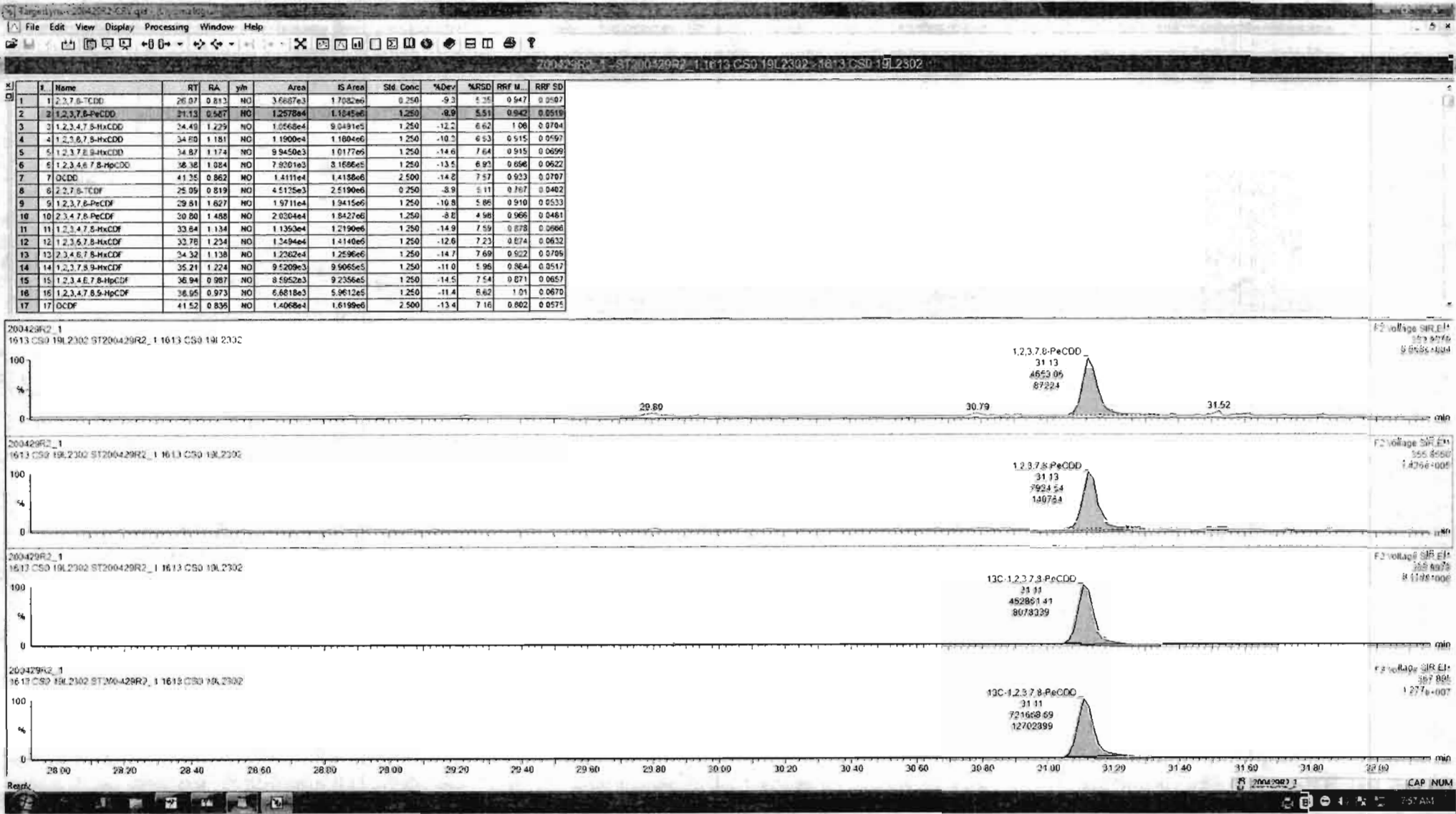
**13C-1,2,3,7,8-PeCDD**

200429R2\_1



200429R2\_1





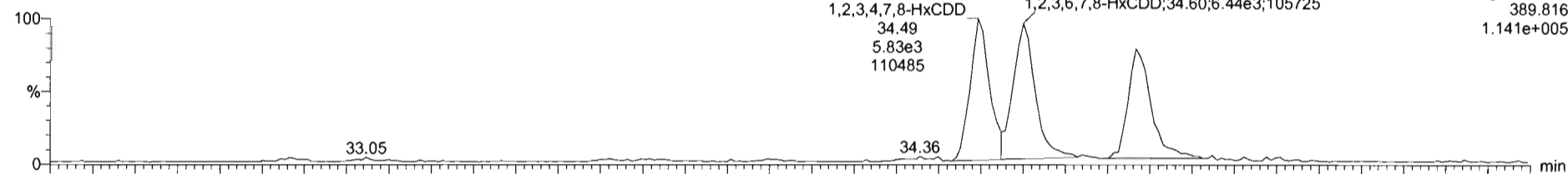
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

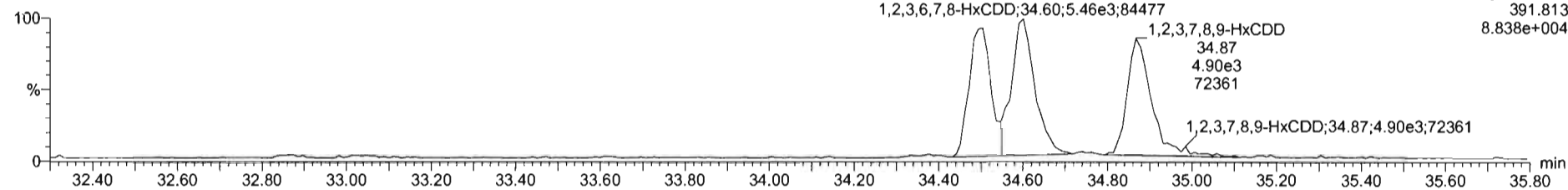
Name: 200429R2\_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2\_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200429R2\_1

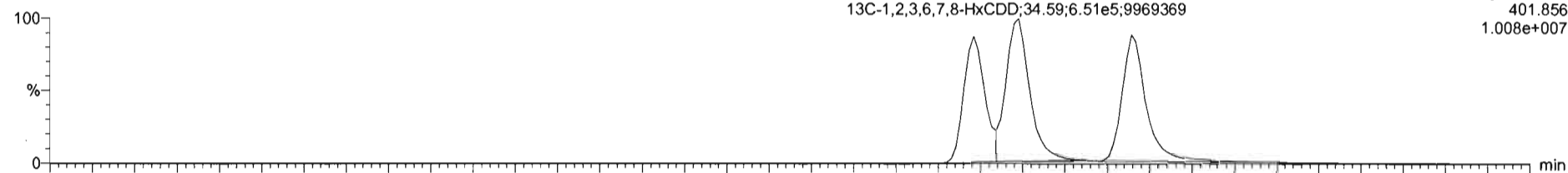


200429R2\_1

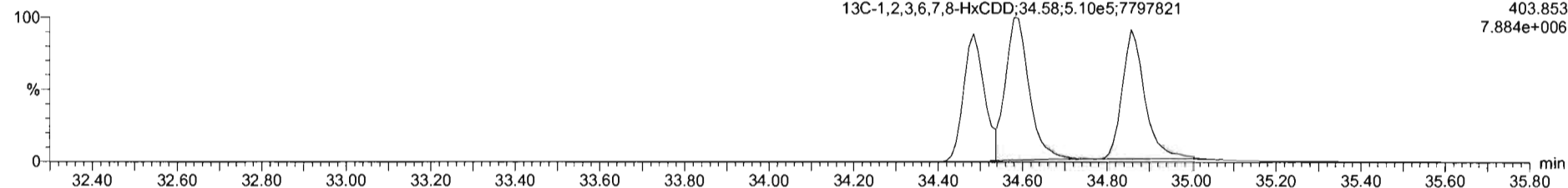


13C-1,2,3,4,7,8-HxCDD

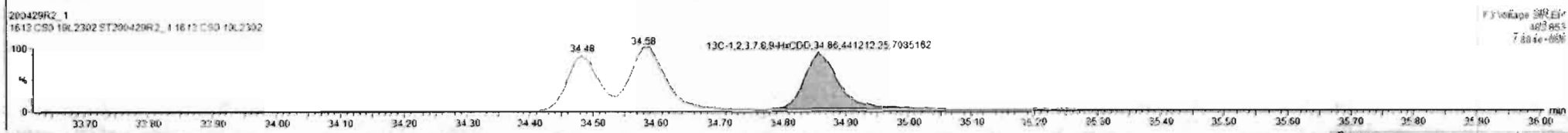
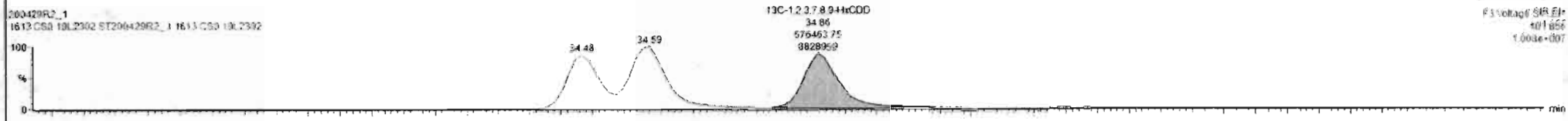
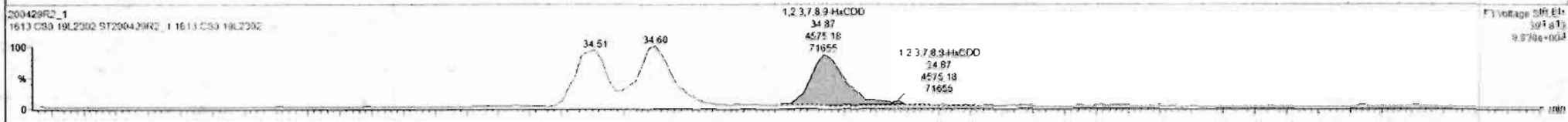
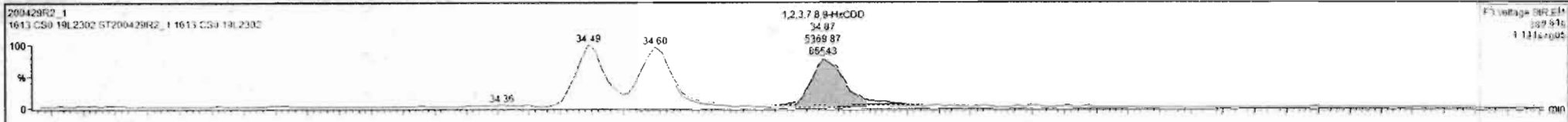
200429R2\_1



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	0.0587
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	0.0764
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	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.4	7.64	0.915	0.0598
6	1,2,3,4,6,7,8-HpCDD	36.38	1.054	NO	7.9201e3	8.1666e5	1.250	-13.5	8.93	0.856	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	4.98	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	0.0678
17	DCDF	41.52	0.836	NO	1.4066e4	1.6189e6	2.500	-13.4	7.16	0.802	0.0575



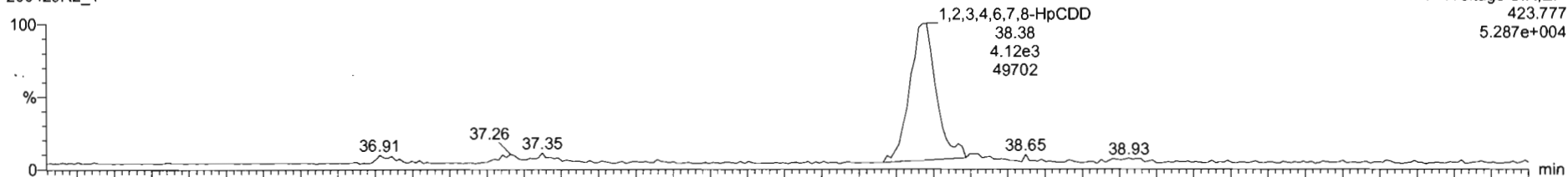
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time  
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

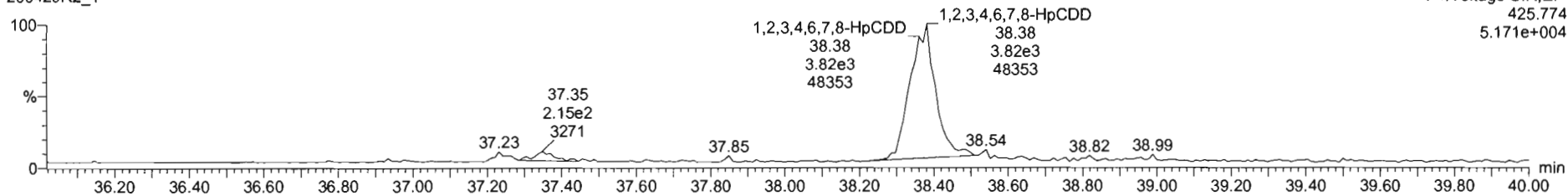
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1,2,3,4,6,7,8-HpCDD

200429R2\_1

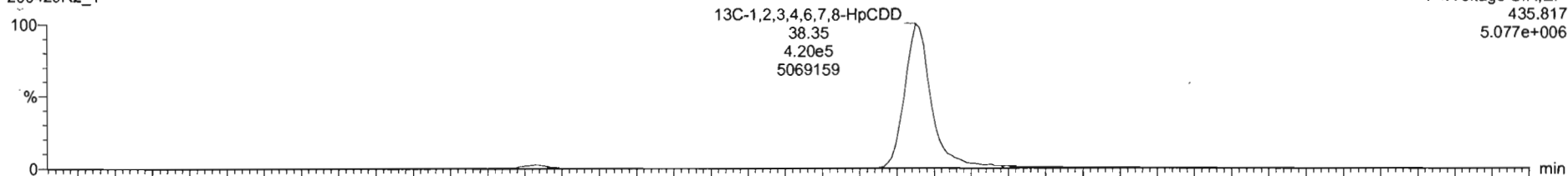


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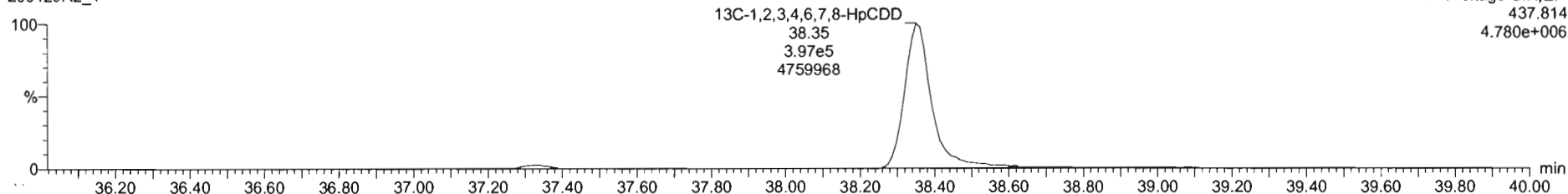


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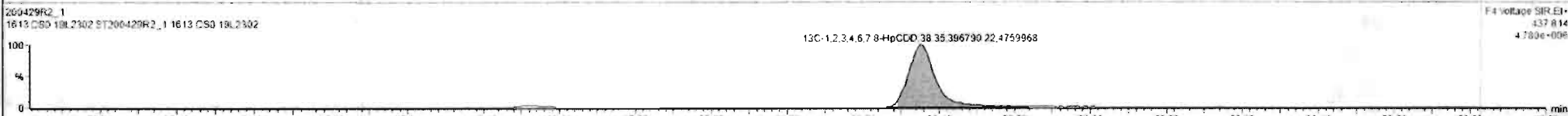
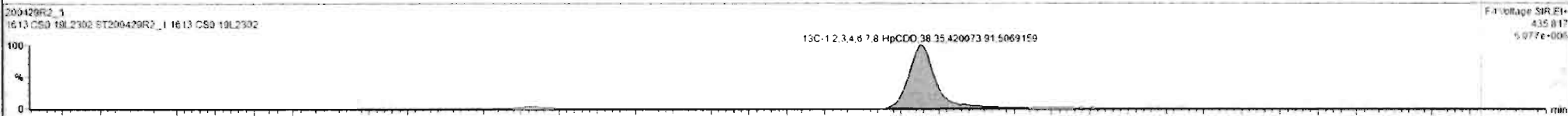
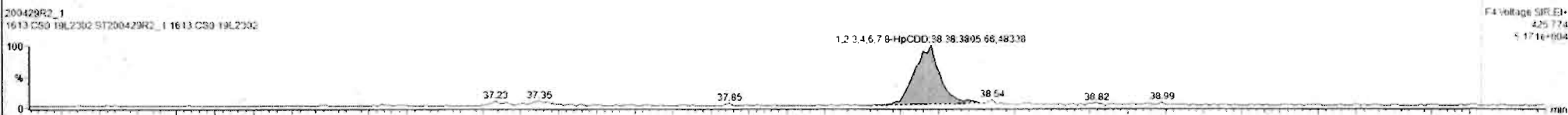
200429R2\_1



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	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	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	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2362e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0627
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8818e3	5.9812e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



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200429R2\_1 CAP NUM

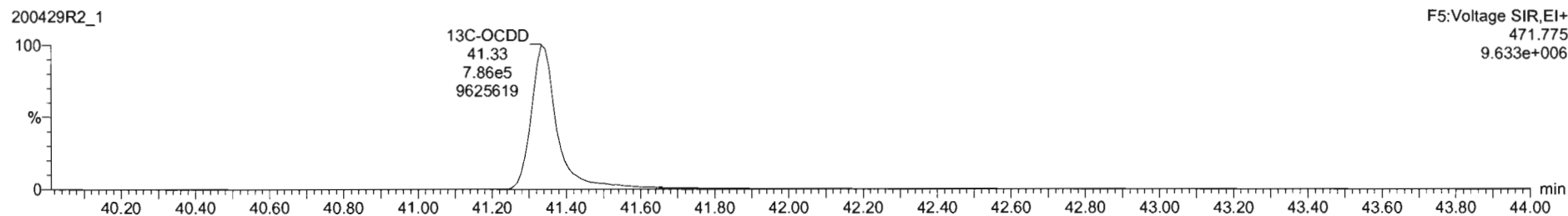
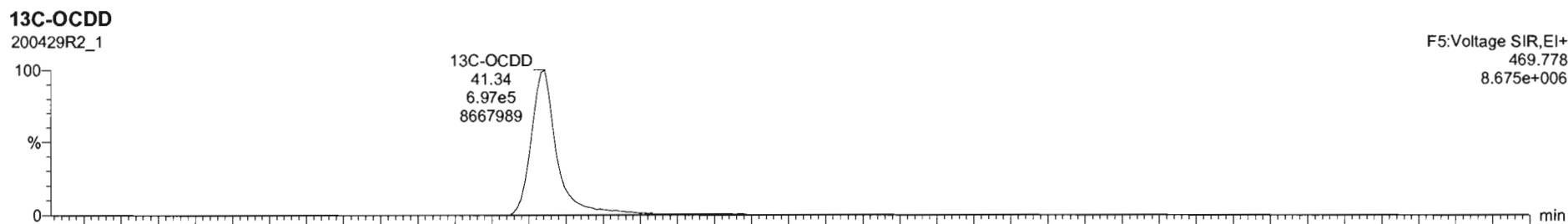
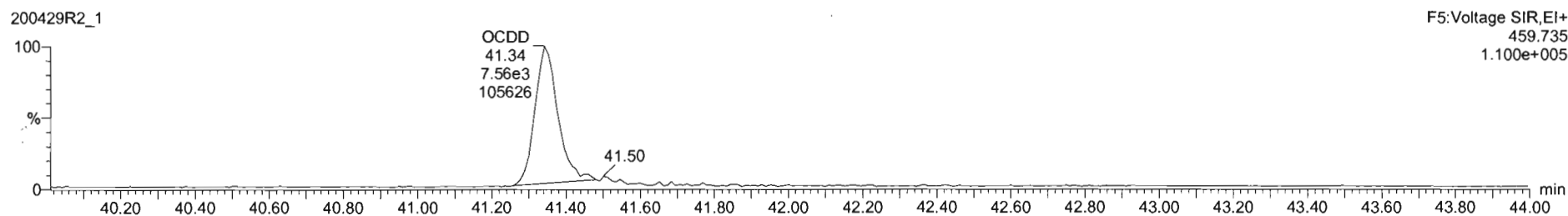
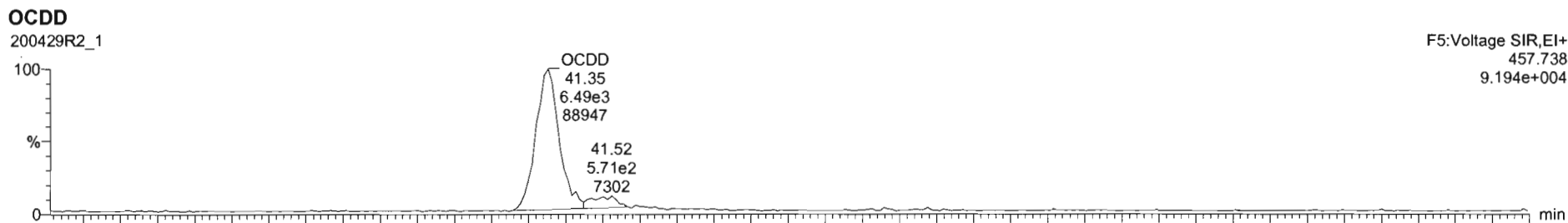
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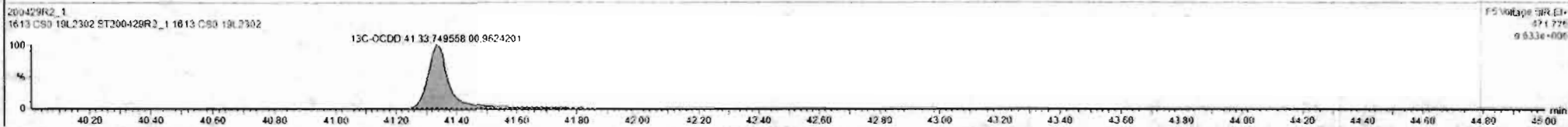
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#	Name	RT	RA	Yn	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.97	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0407
2	1,2,3,7,8-PeCDD	31.12	0.587	NO	1.2678e4	1.1845e6	1.250	-8.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	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	1.4189e6	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



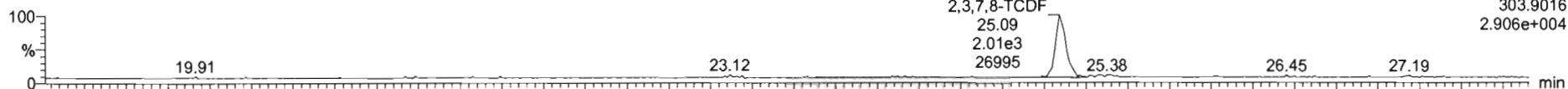
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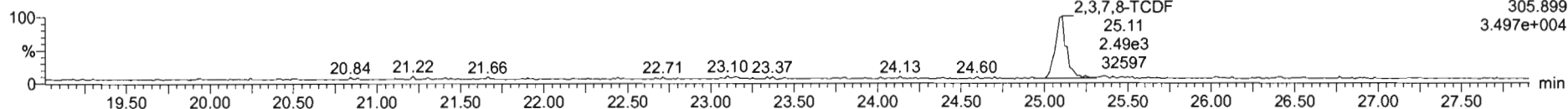
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**2,3,7,8-TCDF**

200429R2\_1

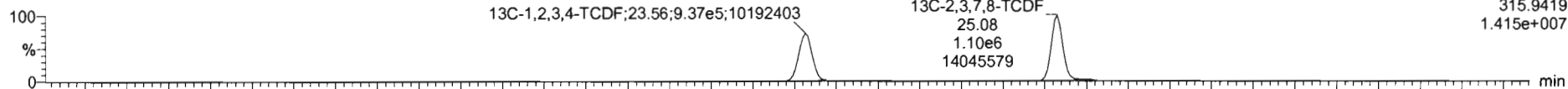


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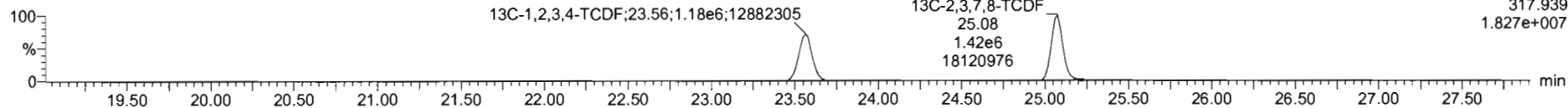


**13C-2,3,7,8-TCDF**

200429R2\_1

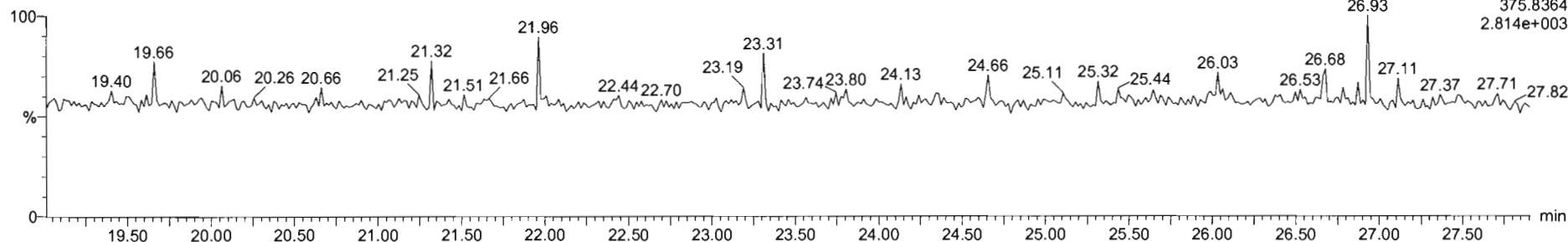


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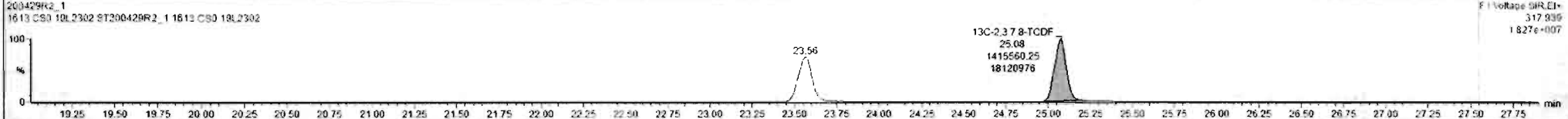
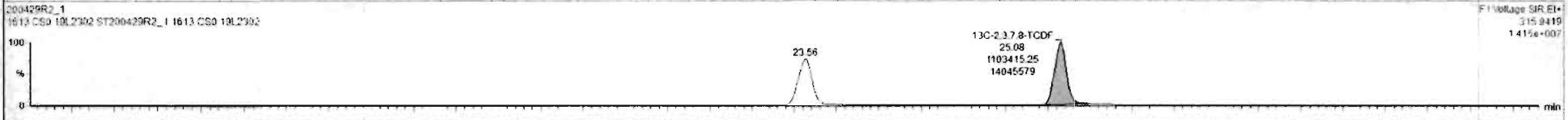
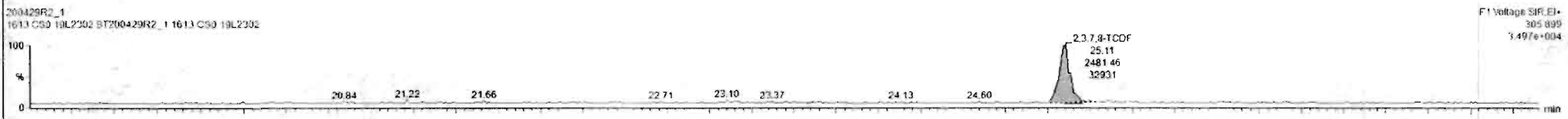
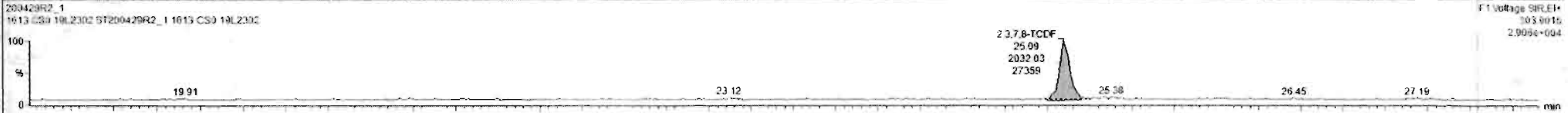


**DPE1**

200429R2\_1



#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDF	26.07	0.813	NO	3.6607e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.13	0.587	NO	1.2578e4	1.1545e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.084	NO	7.001e3	3.1686e5	1.250	-13.5	6.93	0.698	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.0	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5135e3	2.5190e6	0.250	-8.9	5.11	0.787	0.0462
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0204e4	1.8427e6	1.250	-8.0	4.98	0.968	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	0.0568
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.2494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2362e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9085e5	1.250	-11.0	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	3.5952e3	9.2386e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8018e3	5.9012e5	1.250	-11.4	6.82	1.01	0.0879
17	OCDF	41.52	0.838	NO	1.4068e4	1.6198e6	2.500	-13.4	7.16	0.802	0.0575



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200429R2\_1 CAP NUM

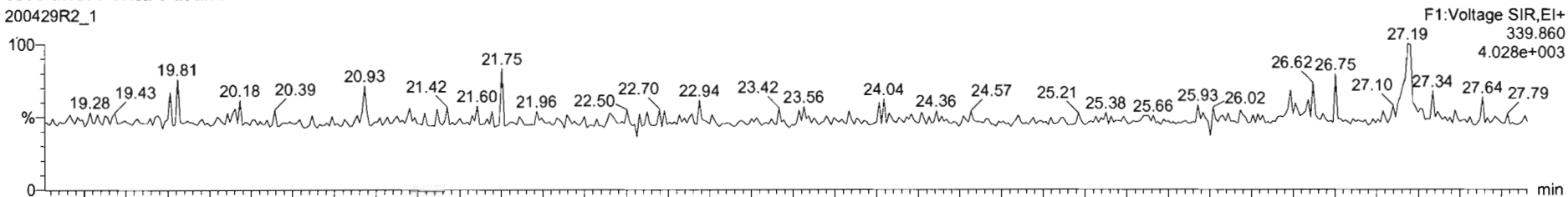
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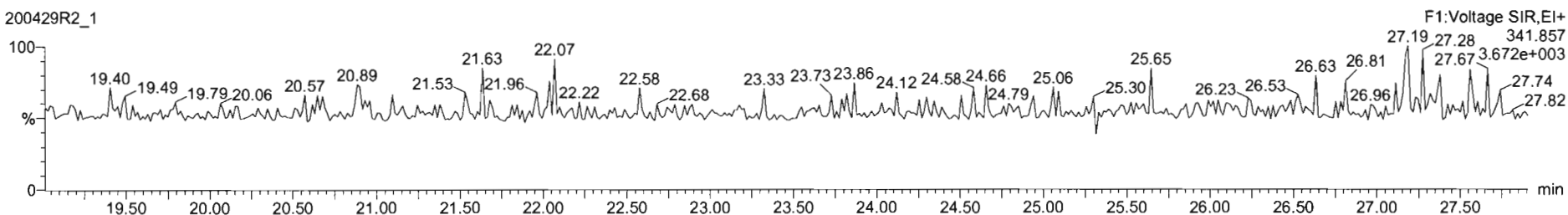
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200429R2\_1

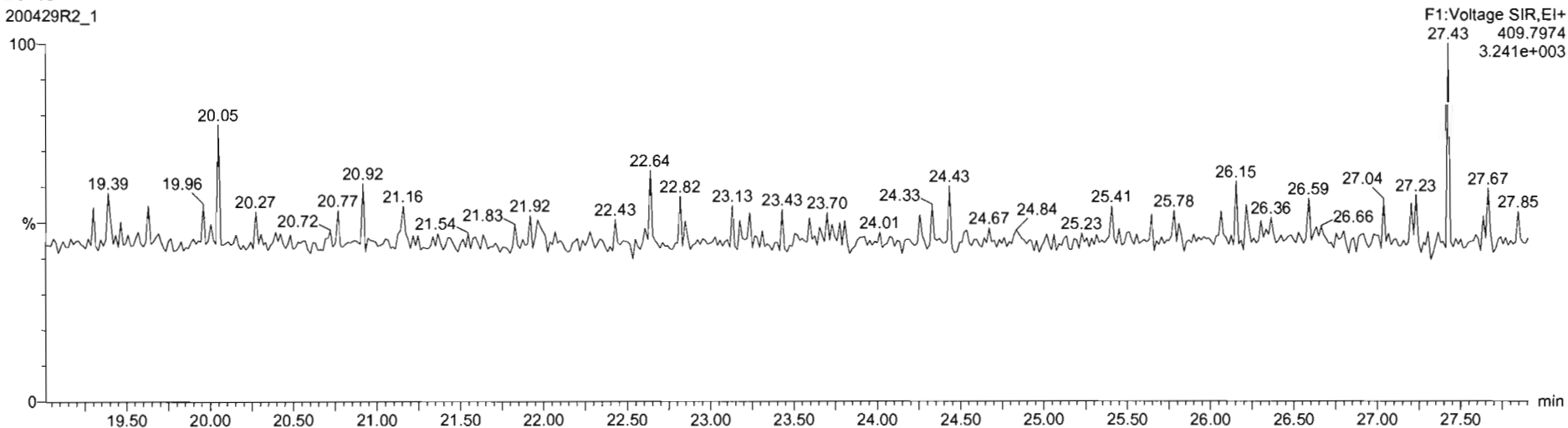


200429R2\_1



DPE6

200429R2\_1

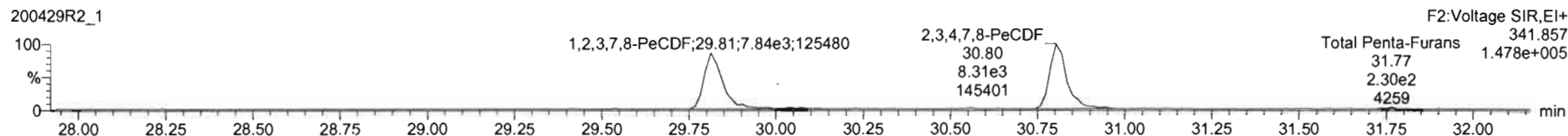
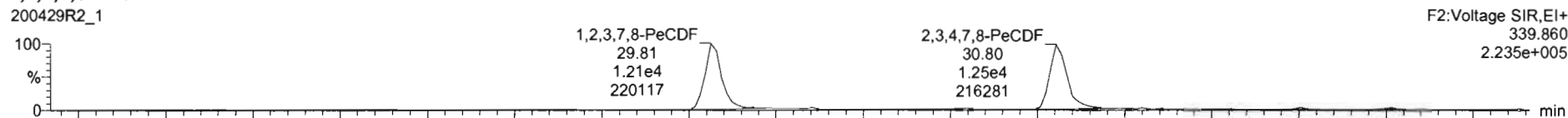


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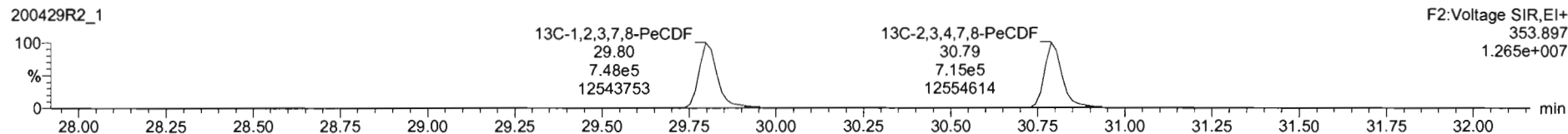
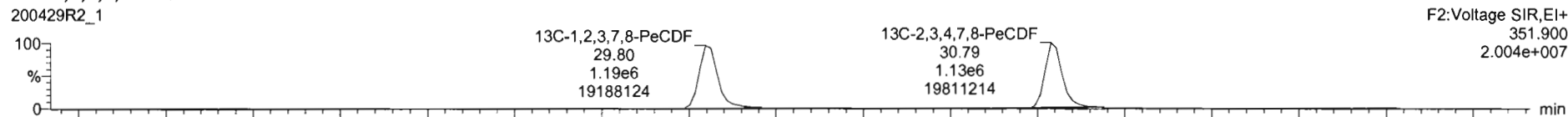
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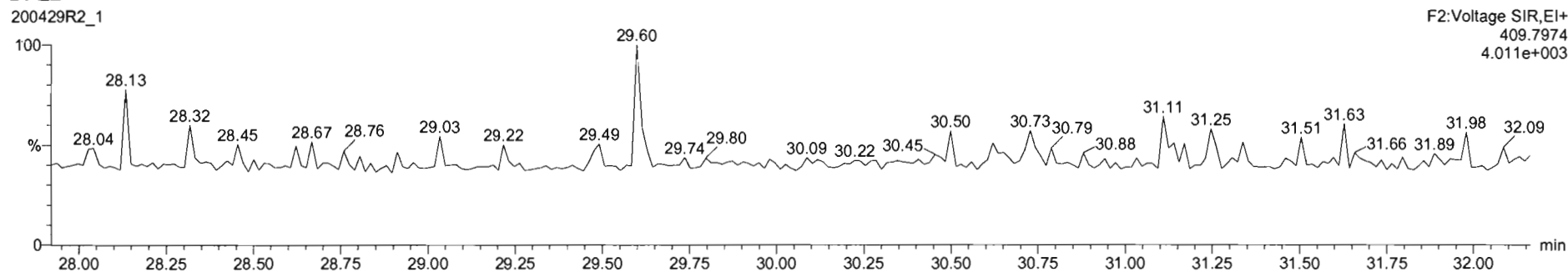
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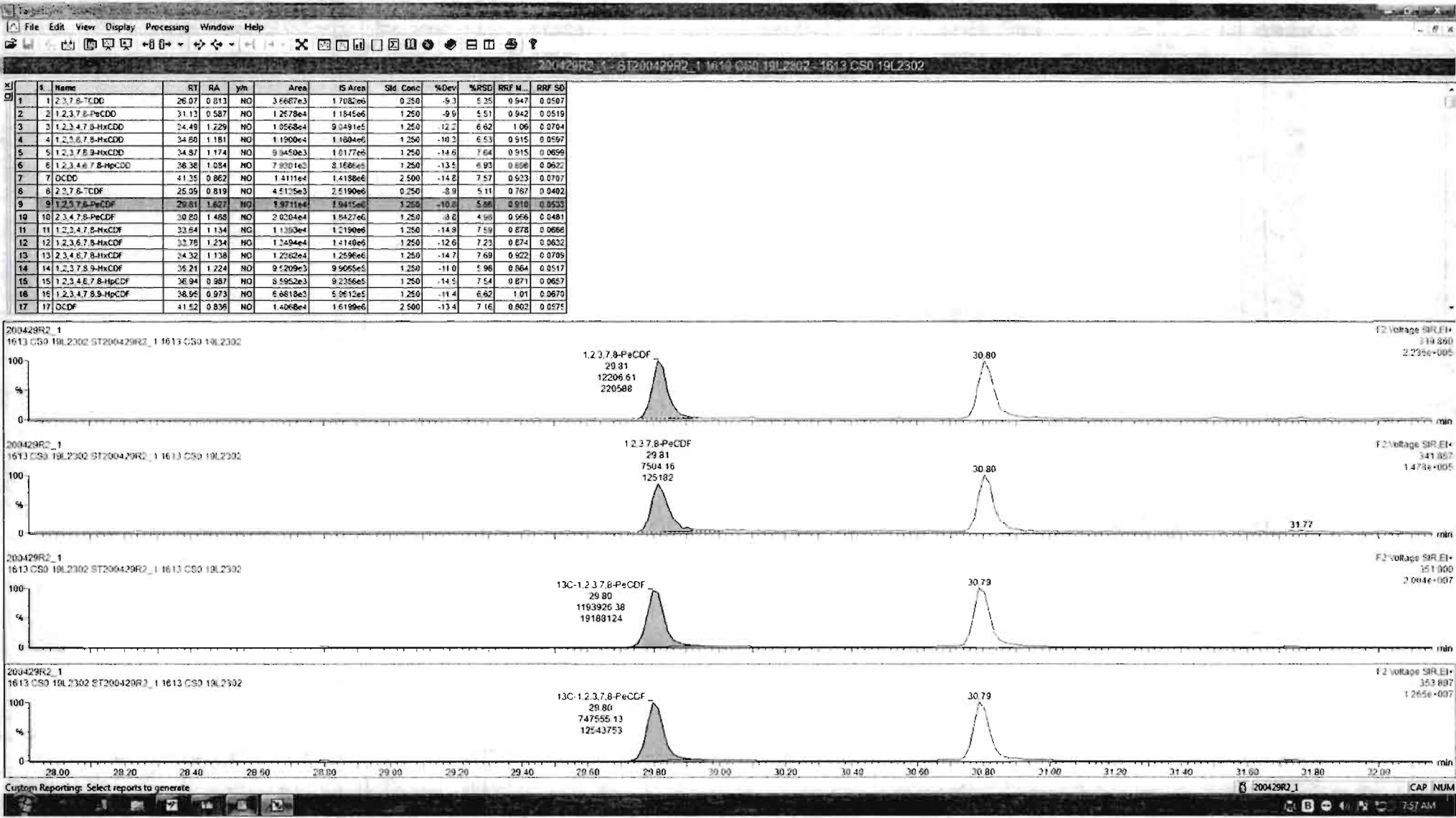
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**DPE2**

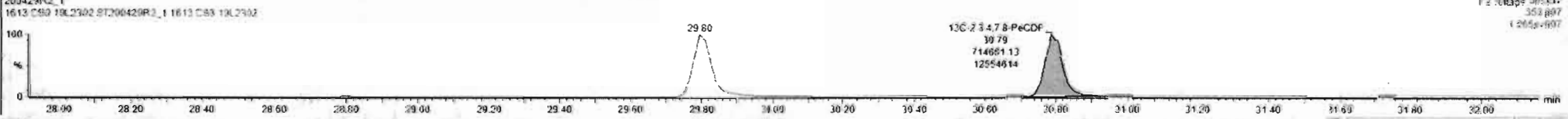
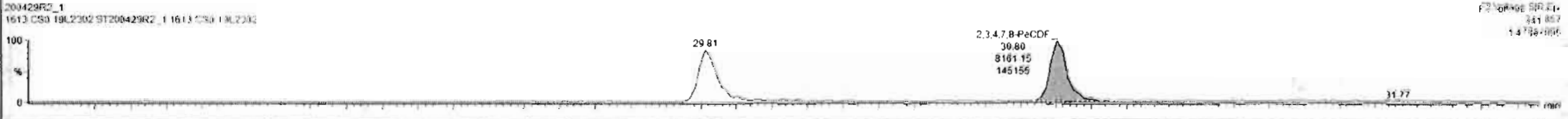
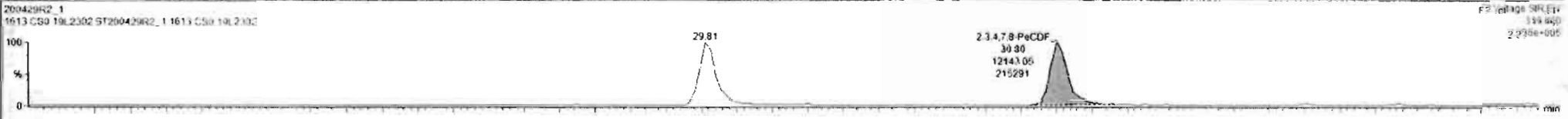






200429R2\_1 - ST200429R2\_1 1613 CS0 19L2302 - 1613 CS0 19L2302

#	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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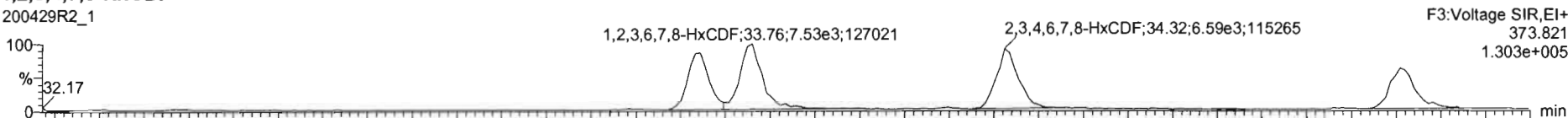
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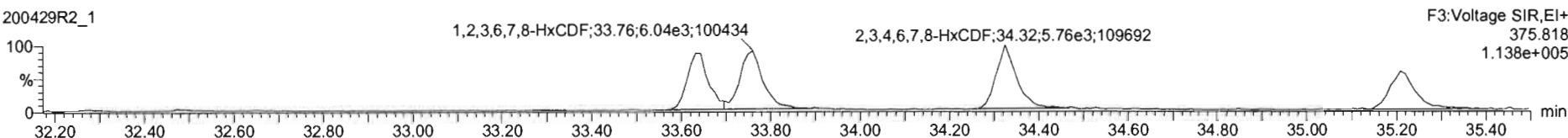
Name: 200429R2\_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2\_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200429R2\_1

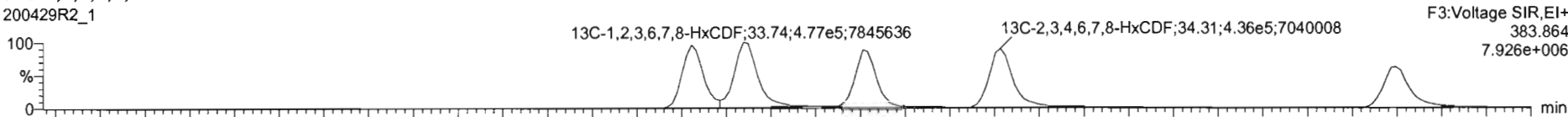


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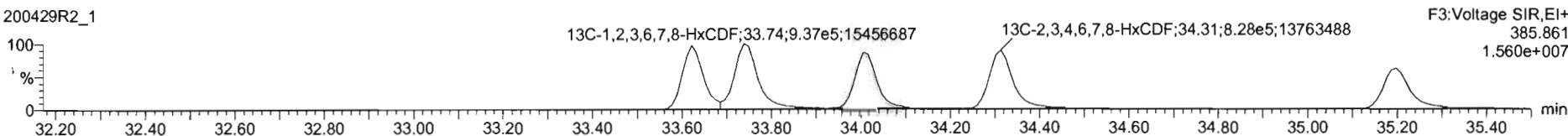


**13C-1,2,3,4,7,8-HxCDF**

200429R2\_1

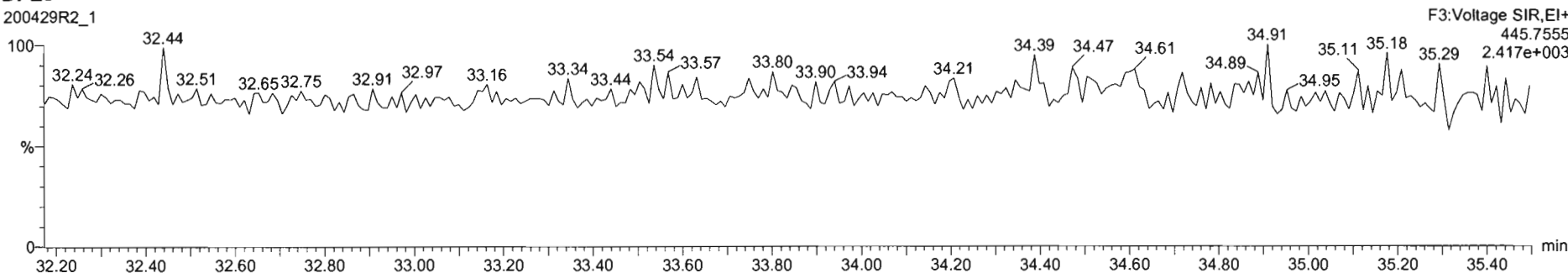


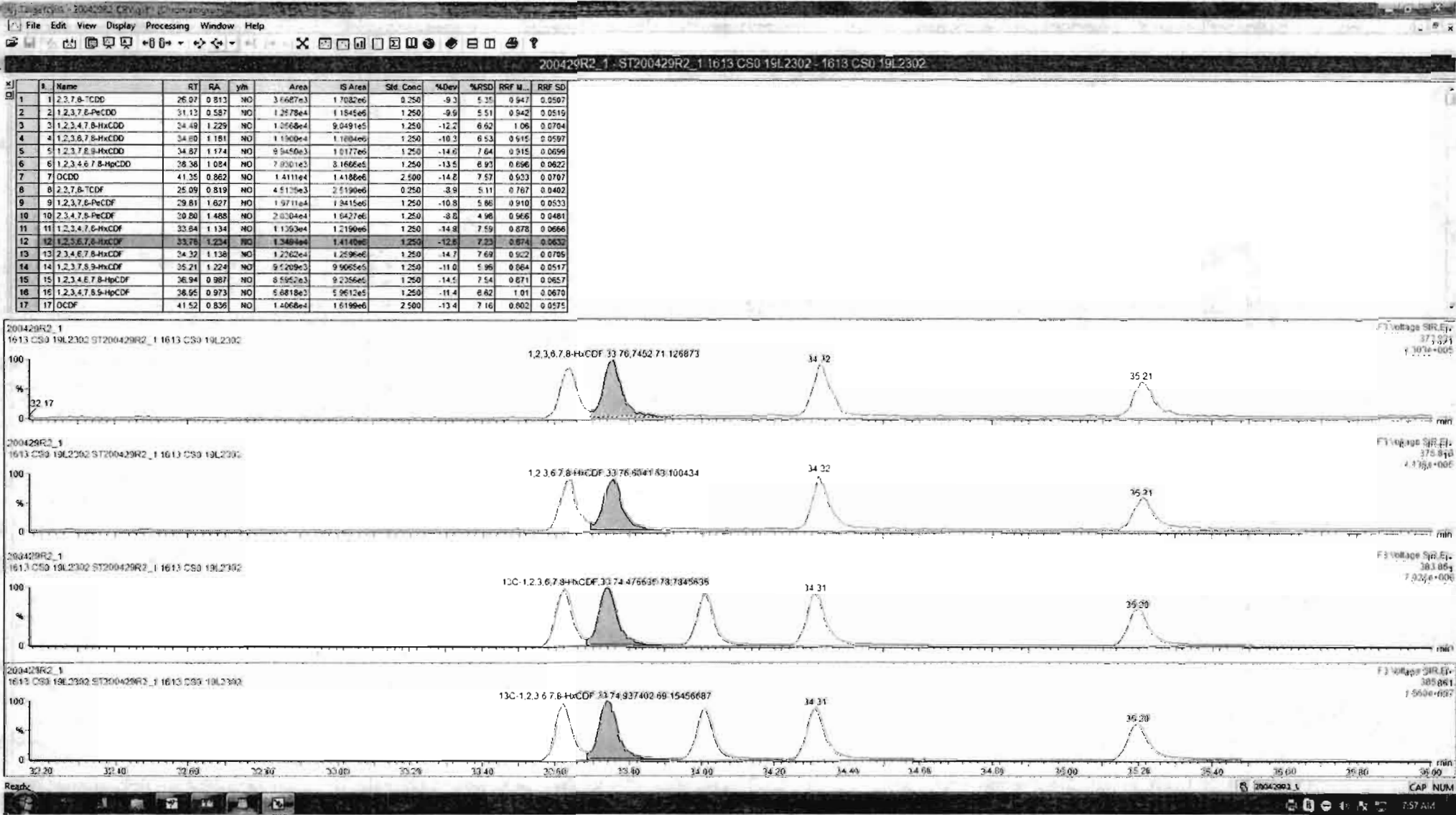
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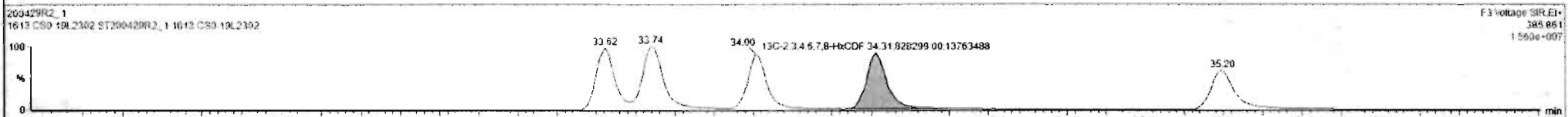
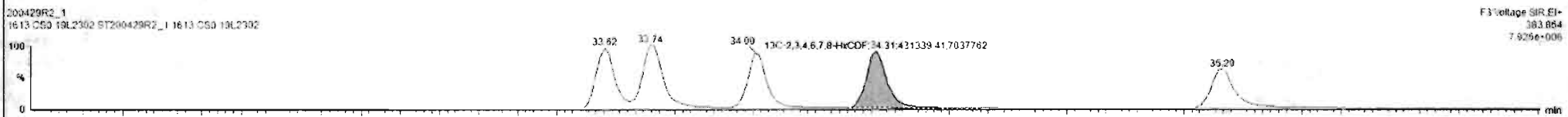
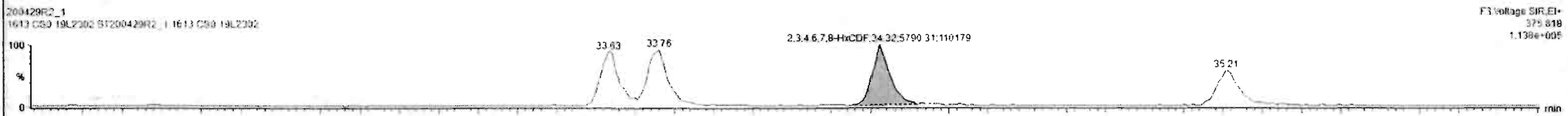
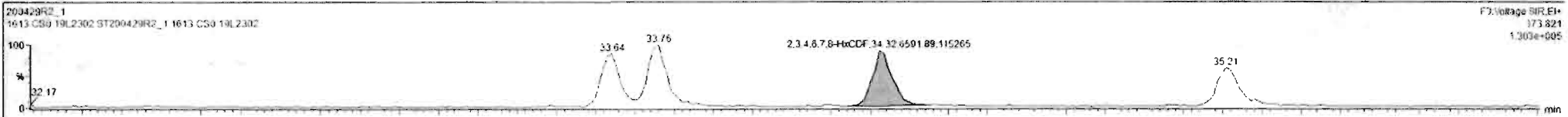
**DPE3**

200429R2\_1





Sl	Name	RT	RA	Y/N	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	28.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2478e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0515
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.57	1.174	NO	9.5450e3	1.0177e6	1.250	-14.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.084	NO	7.3001e3	8.1686e5	1.250	-13.5	6.93	0.656	0.0632
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.923	0.0787
8	2,2,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.88	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0204e4	1.9427e6	1.250	-8.2	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.134	NO	1.1363e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	32.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.130	NO	1.2232e4	1.2590e6	1.250	-14.7	7.68	0.922	0.0766
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.964	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2386e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	DCDF	41.52	0.836	NO	1.4068e4	1.6189e6	2.500	-13.4	7.16	0.802	0.0575



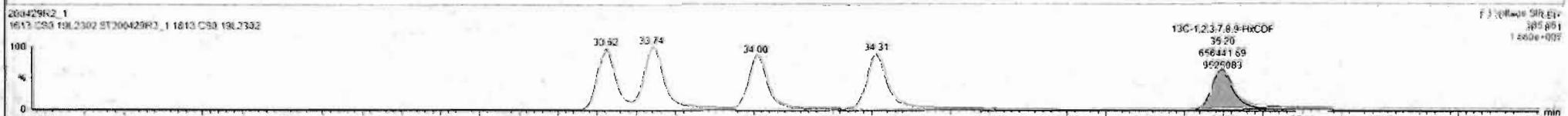
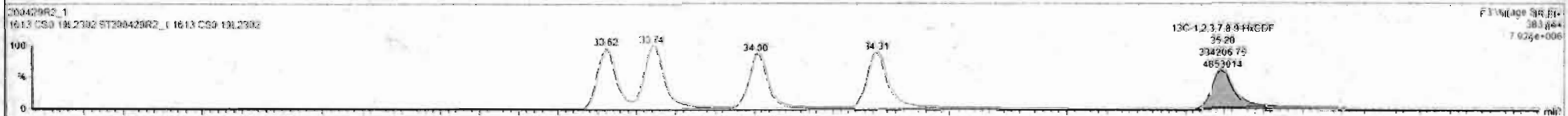
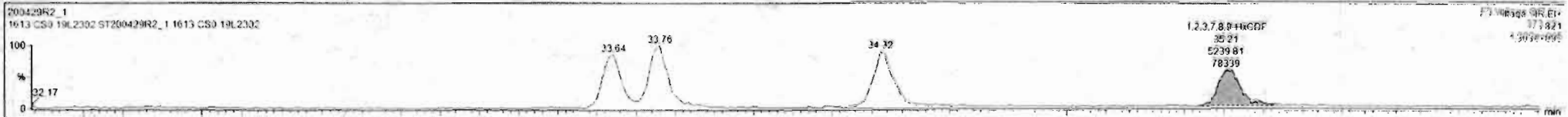
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200429R2\_1

CAP NUM

7:58 AM

#	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	1.1688e6	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	7.9016e3	3.1686e5	1.250	-13.5	6.92	0.696	0.0632
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.623	0.0707
8	1,2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.4196e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-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	2.004e4	1.9427e6	1.250	-8.8	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1363e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.37	1.138	NO	1.2062e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.98	0.704	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.94	0.967	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.82	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4066e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



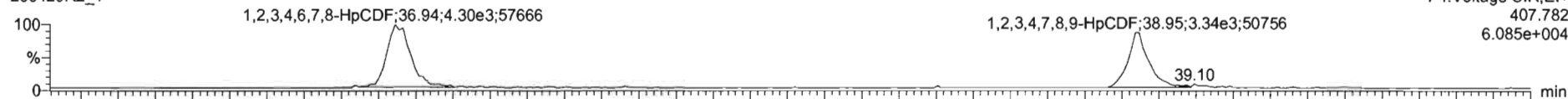
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Name: 200429R2\_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2\_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

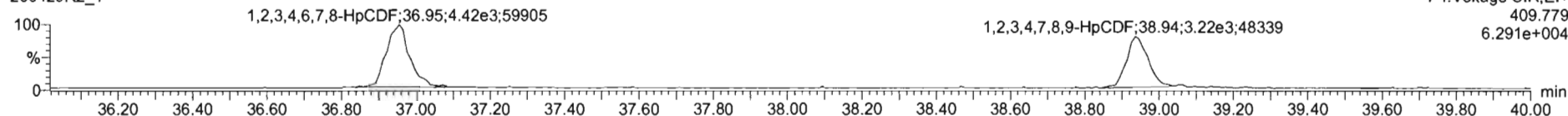
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200429R2\_1



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6.085e+004

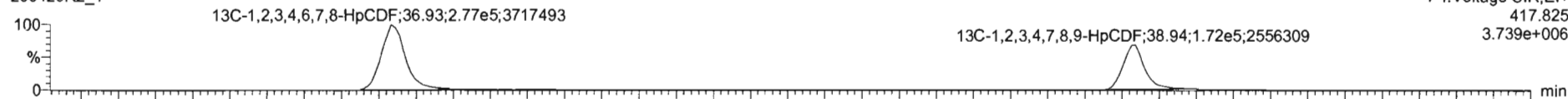
200429R2\_1



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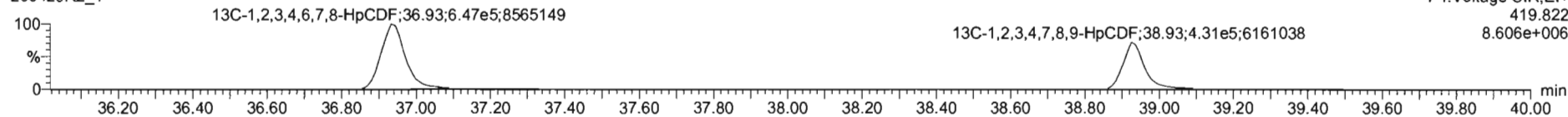
**13C-1,2,3,4,6,7,8-HpCDF**

200429R2\_1



F4:Voltage SIR,EI+  
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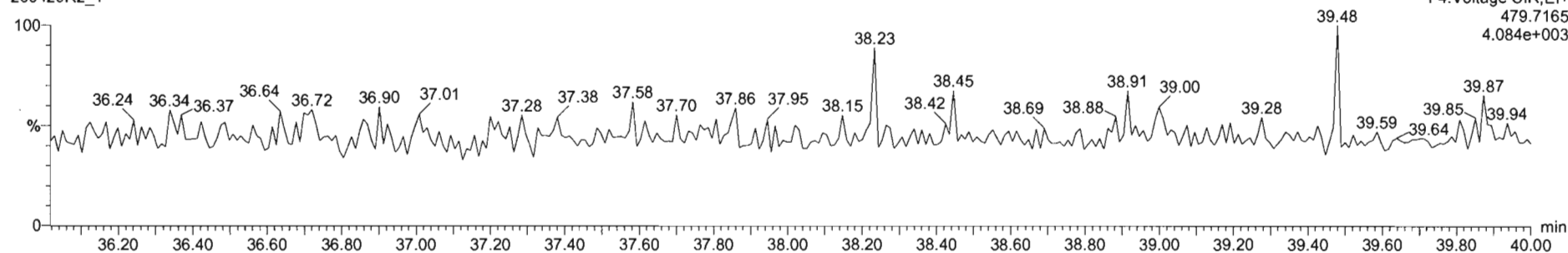
200429R2\_1



F4:Voltage SIR,EI+  
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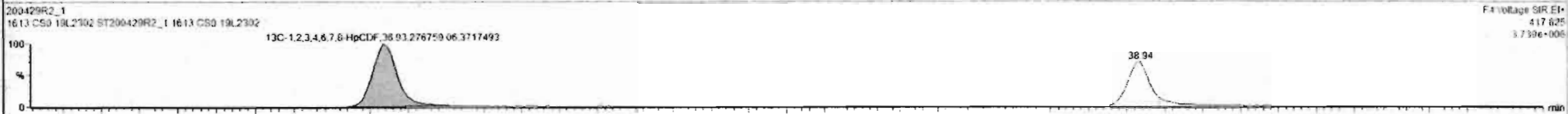
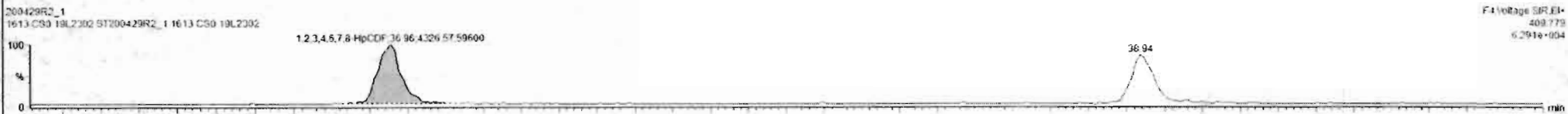
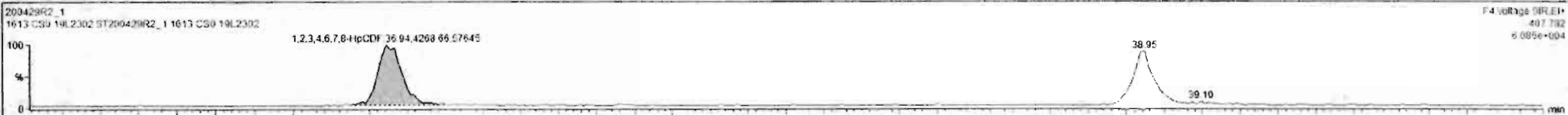
**DPE4**

200429R2\_1



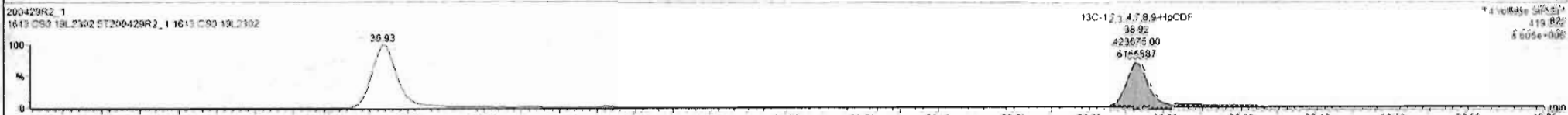
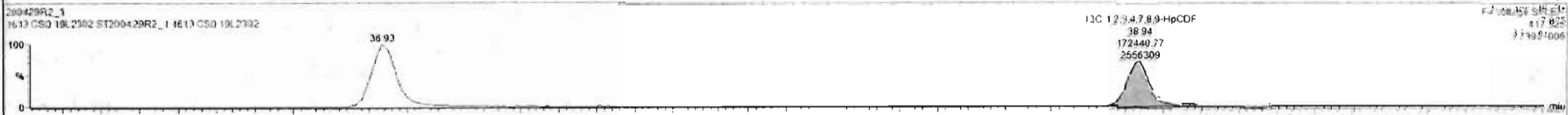
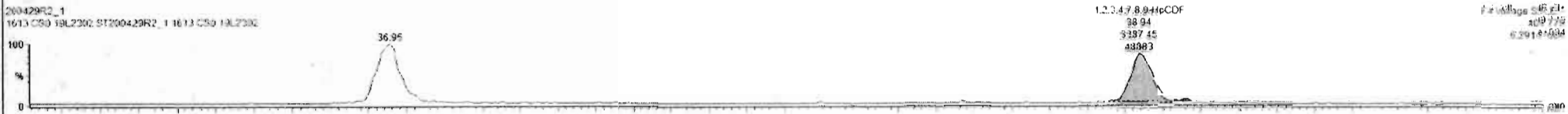
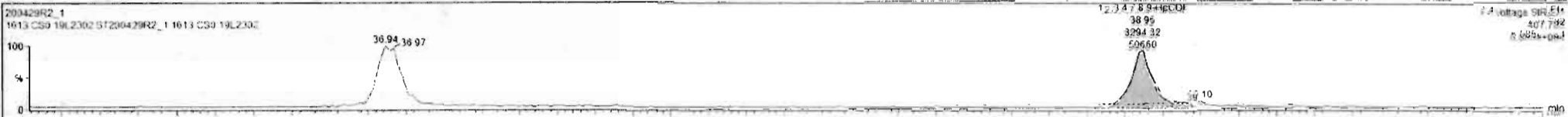
F4:Voltage SIR,EI+  
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4.084e+003

#	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	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.9491e5	1.250	-12.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0567
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.38	1.084	NO	7.9201e3	8.1696e5	1.250	-13.5	6.93	0.656	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.933	0.0707
8	1,2,3,7,8-TCDF	26.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.51	1.627	NO	1.9711e4	1.9415e6	1.250	-10.3	5.66	0.910	0.0533
10	1,2,3,4,7,8-HxCDF	30.80	1.468	NO	2.9304e4	1.8427e6	1.250	-8.2	4.98	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.84	1.134	NO	1.1363e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.32	1.138	NO	1.2282e4	1.2596e6	1.250	-14.7	7.68	0.922	0.0789
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.984	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5862e3	9.2366e5	1.250	-14.5	7.54	0.871	0.0667
16	1,2,3,4,7,8,9-HpCDF	36.95	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	9.9491e5	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	0.0592
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	1.084	NO	7.9301e3	8.1686e5	1.250	-13.5	6.93	0.856	0.0623
7	OCDD	41.35	0.862	NO	1.4111e4	1.4198e6	2.500	-14.0	7.57	0.923	0.0707
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0204e4	1.9427e6	1.250	-8.0	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.2494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	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	0.871	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	0.836	NO	1.4066e4	1.6199e6	2.500	-13.4	7.10	0.802	0.0575



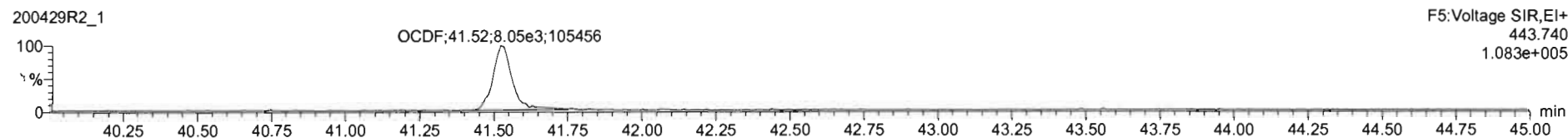
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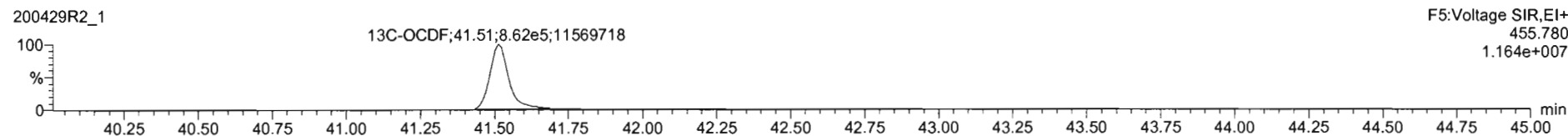
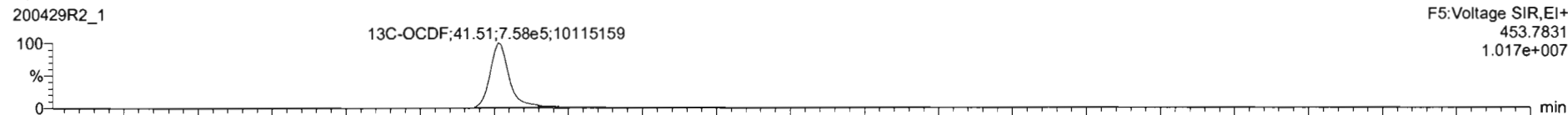
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Name: 200429R2\_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2\_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

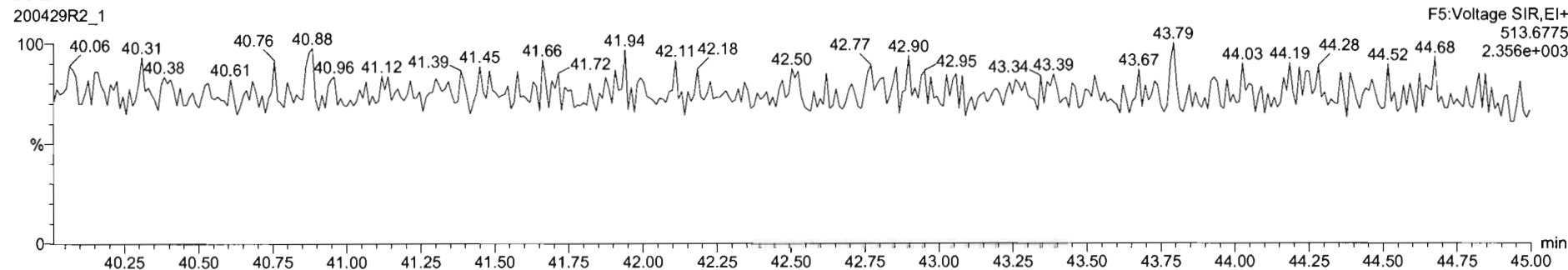
**OCDF**



**13C-OCDF**

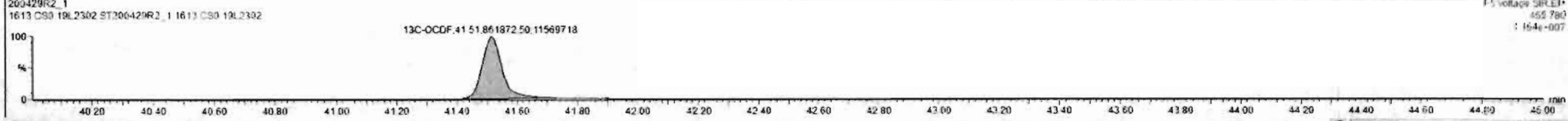
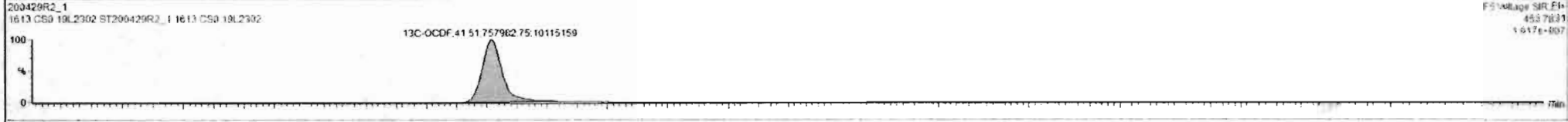
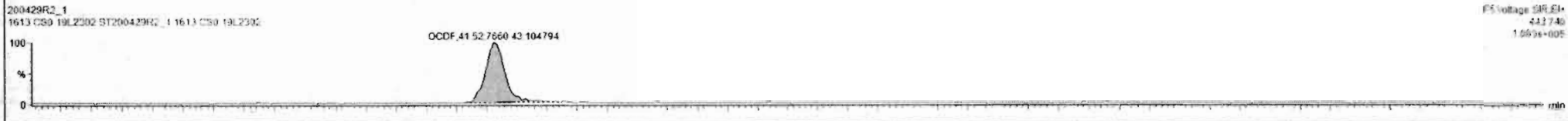
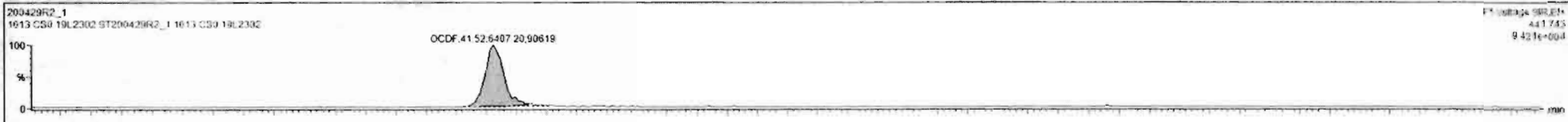


**DPE5**





#	Name	RT	RA	Yln	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7032e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	9.9	5.51	0.942	0.0516
3	1,2,3,6,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.40	1.191	NO	1.1900e4	1.1804e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.094	NO	7.9201e3	3.1686e5	1.250	-13.5	6.97	0.856	0.0622
7	OCDD	41.35	0.962	NO	1.4111e4	1.4188e6	2.500	-14.2	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.95	0.919	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.3	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.00	1.488	NO	2.004e4	1.8427e6	1.250	-8.0	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8818e3	5.9612e5	1.250	-11.4	6.67	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4065e4	1.6189e6	2.500	-13.4	7.16	0.802	0.0575

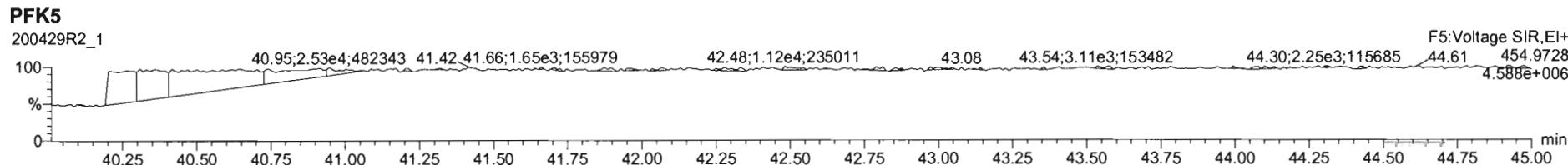
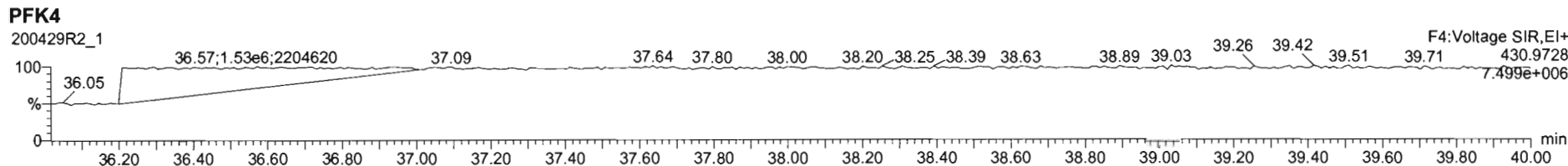
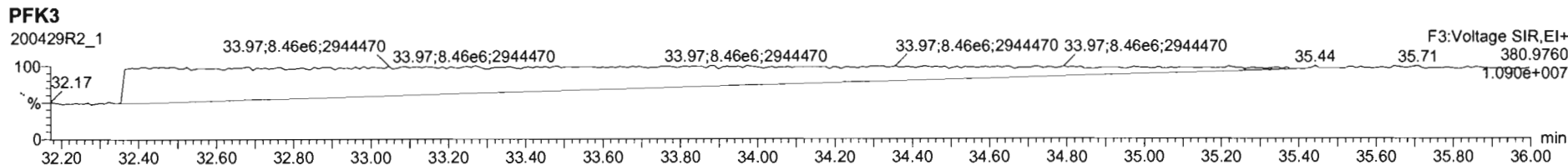
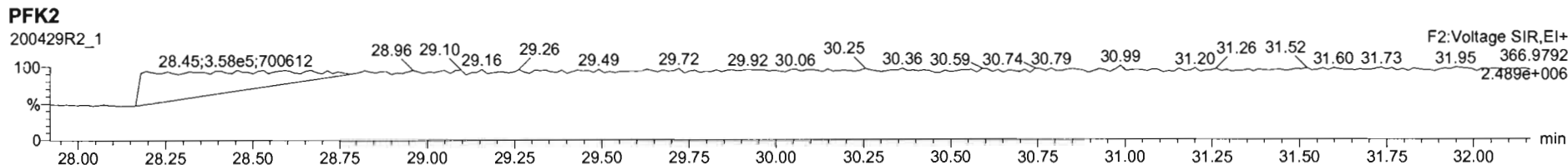
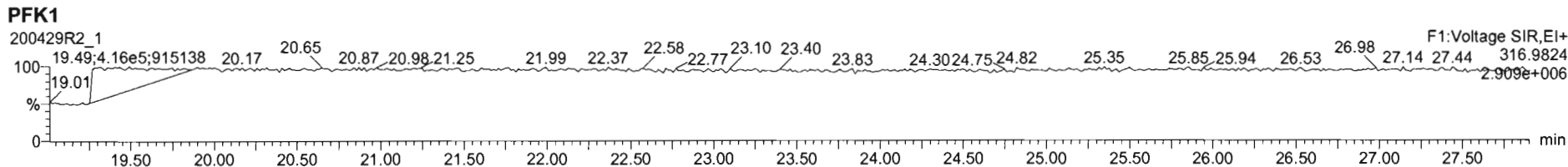


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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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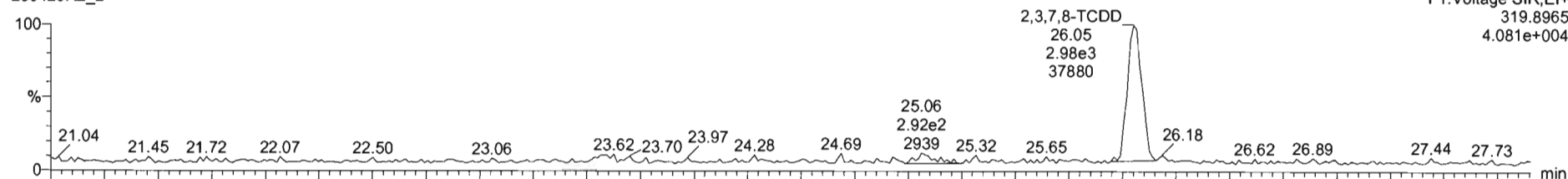
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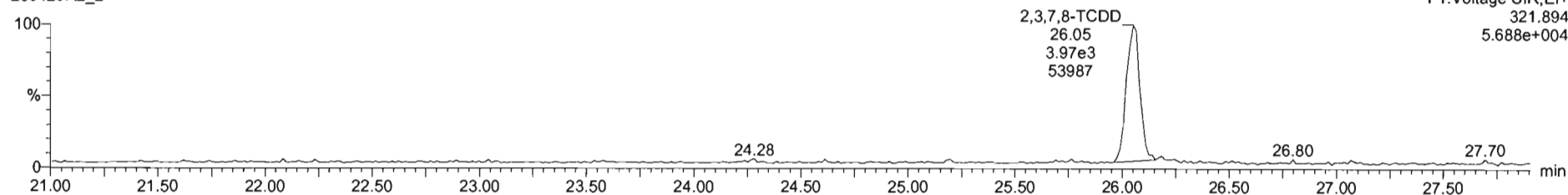
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**2,3,7,8-TCDD**

200429R2\_2

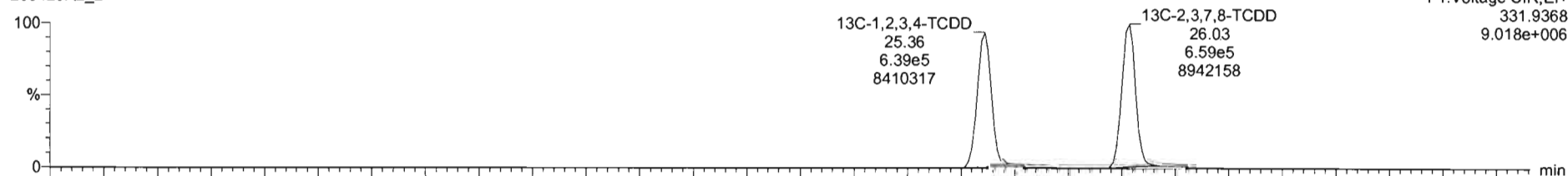


200429R2\_2

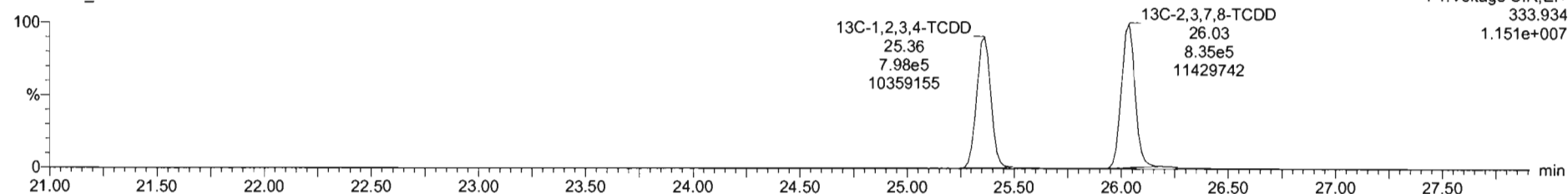


**13C-2,3,7,8-TCDD**

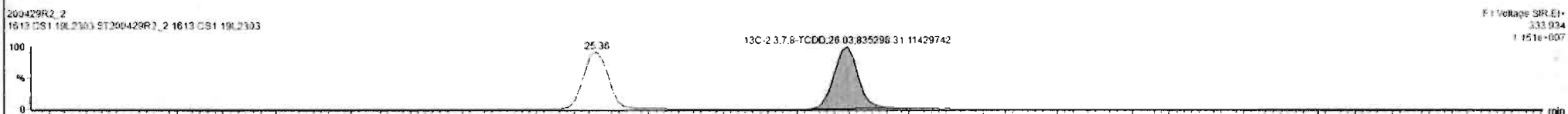
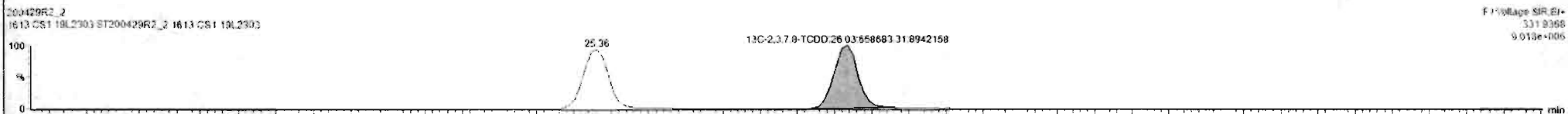
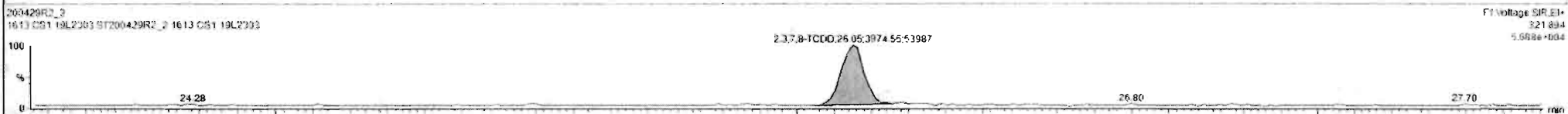
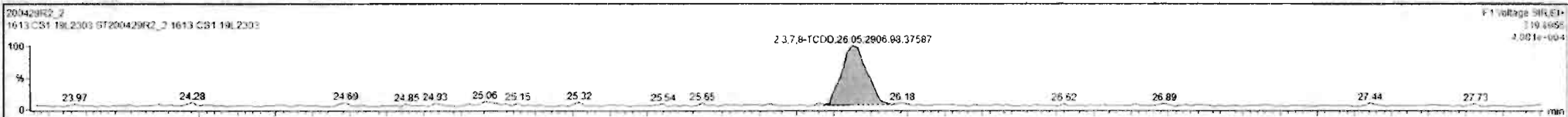
200429R2\_2



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



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200429R2\_2

CAP NUM

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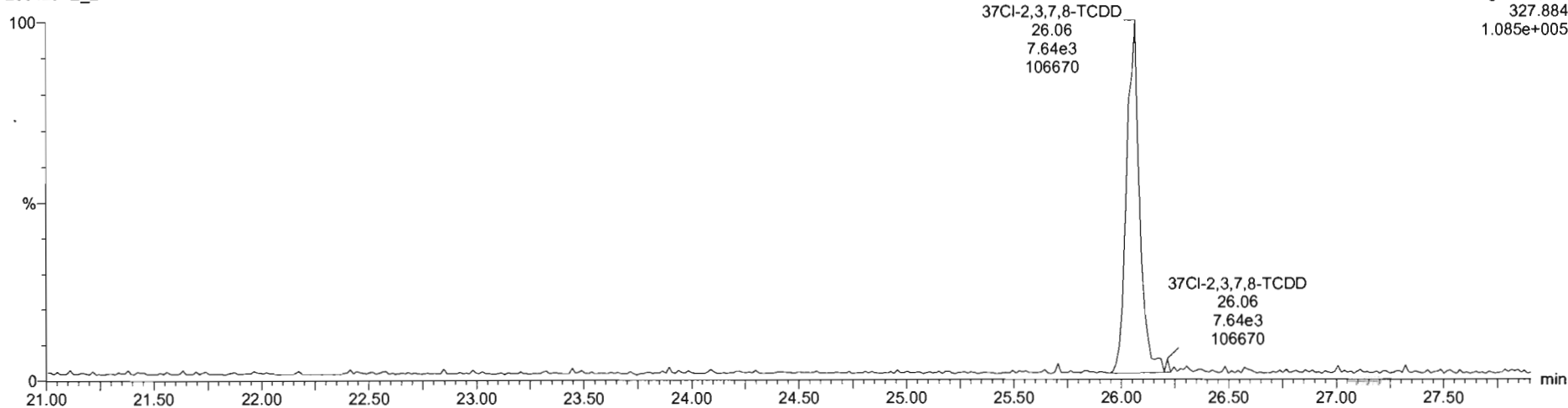
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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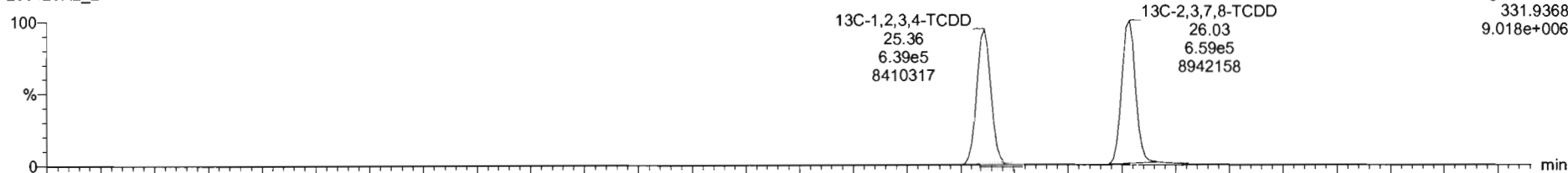
**37Cl-2,3,7,8-TCDD**

200429R2\_2

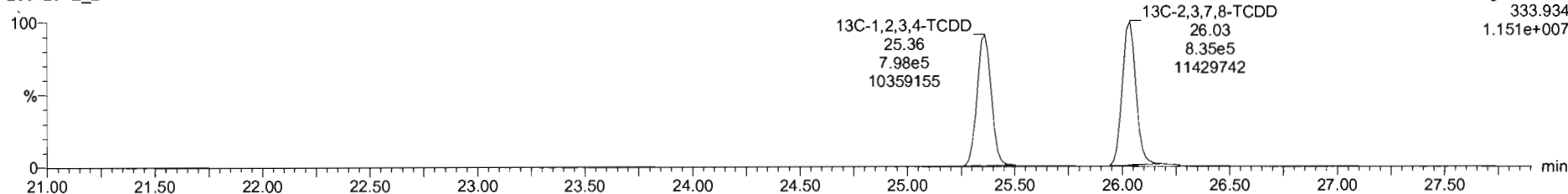


**13C-1,2,3,4-TCDD**

200429R2\_2



200429R2\_2



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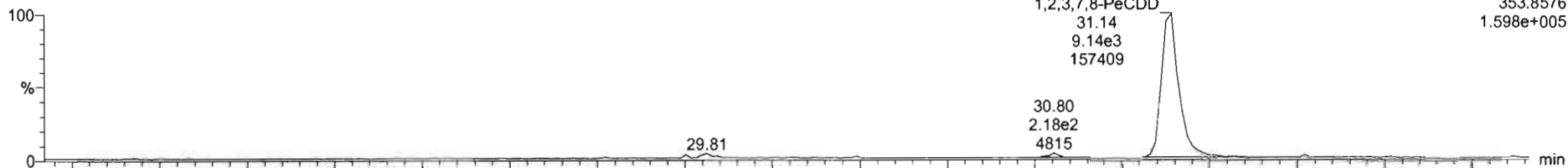
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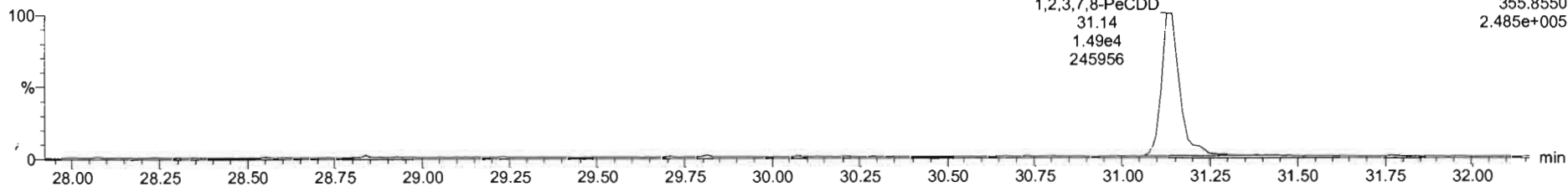
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**1,2,3,7,8-PeCDD**

200429R2\_2

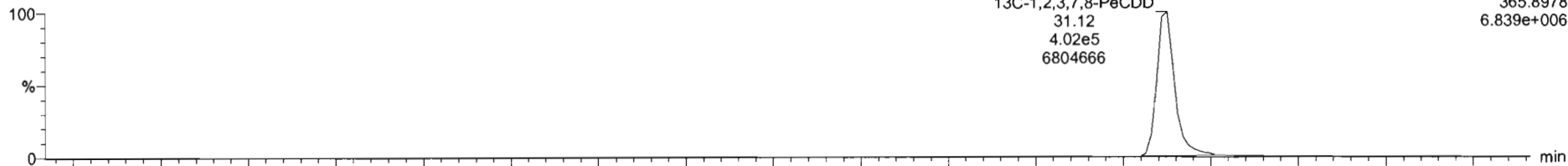


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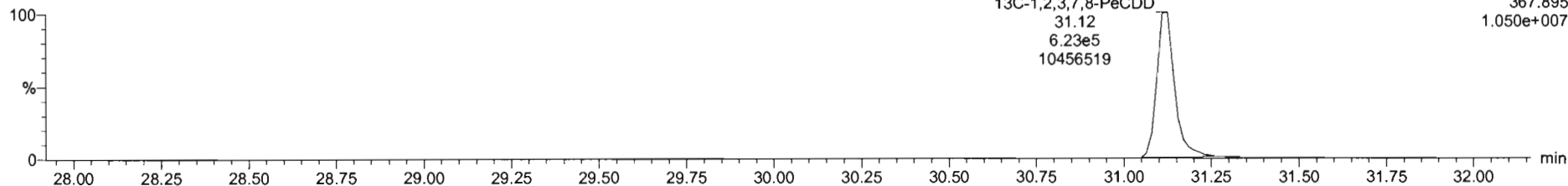


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200429R2\_2



200429R2\_2



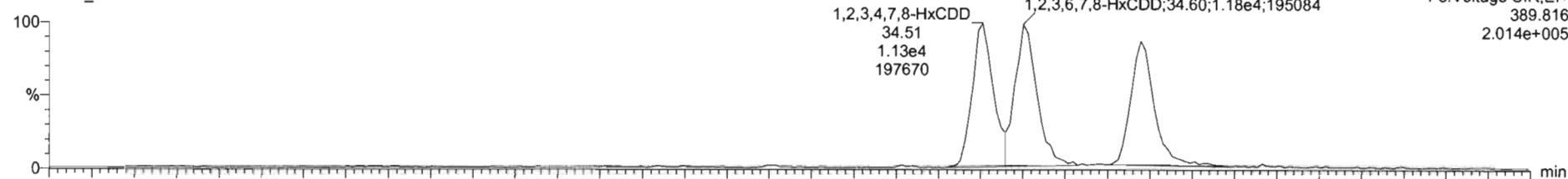
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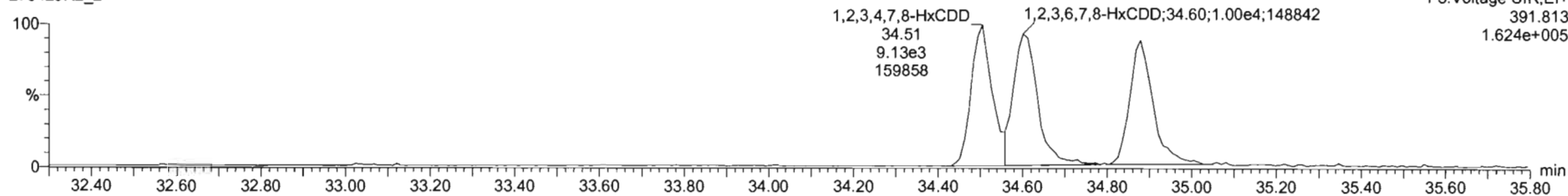
**1,2,3,4,7,8-HxCDD**

200429R2\_2



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

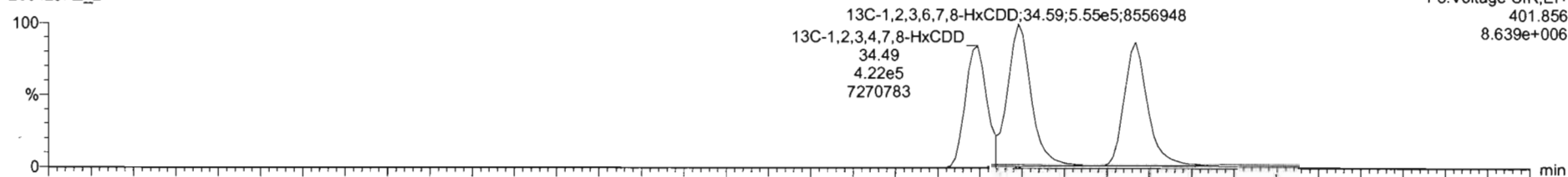
200429R2\_2



F3: Voltage SIR, EI+  
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1.624e+005

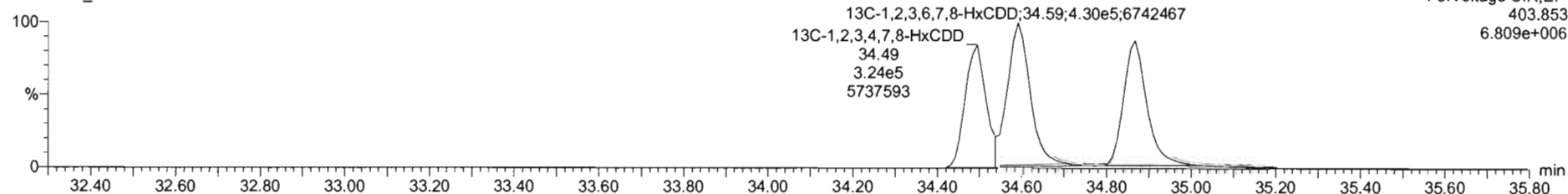
**13C-1,2,3,4,7,8-HxCDD**

200429R2\_2

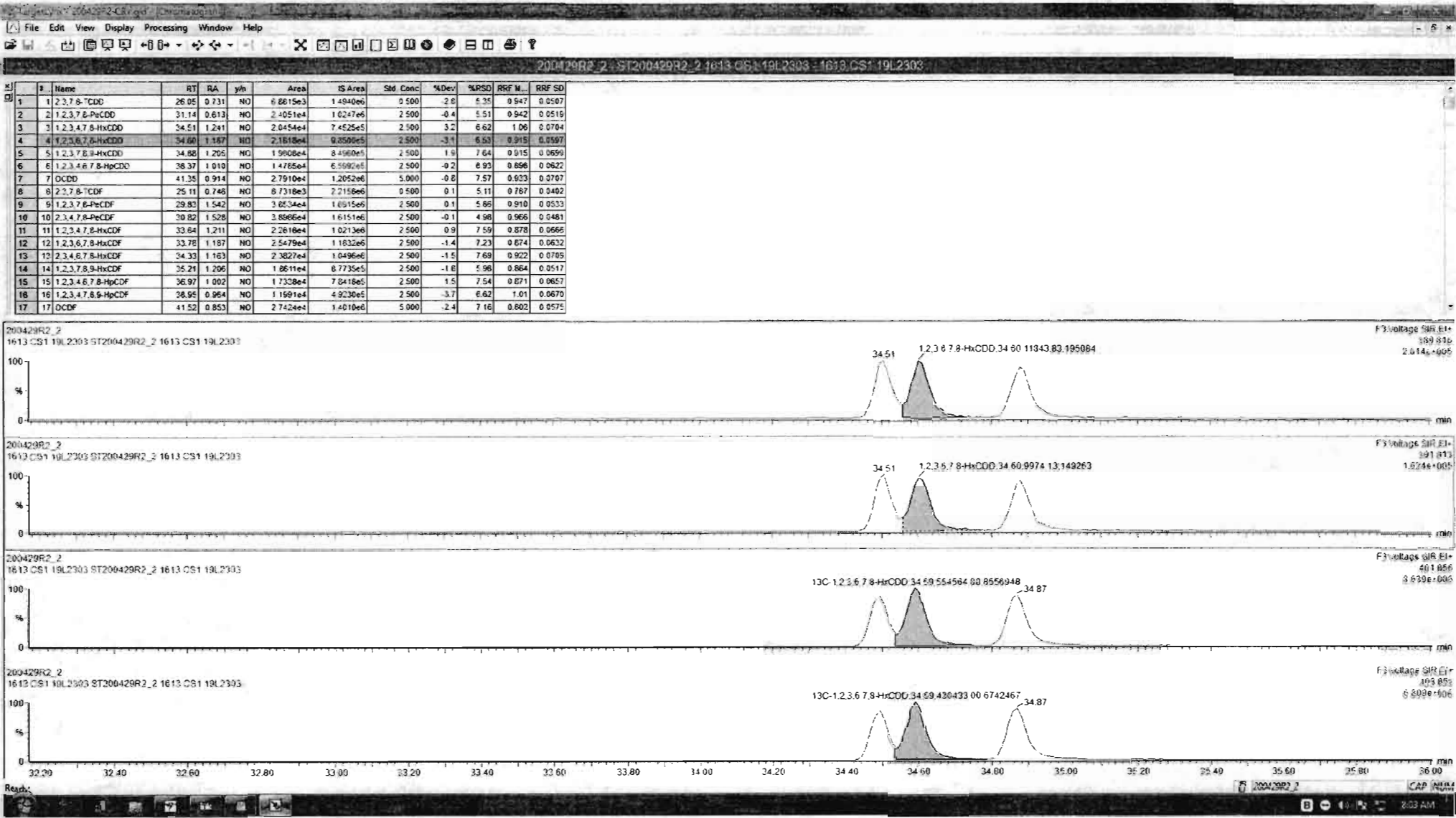


F3: Voltage SIR, EI+  
401.856  
8.639e+006

200429R2\_2

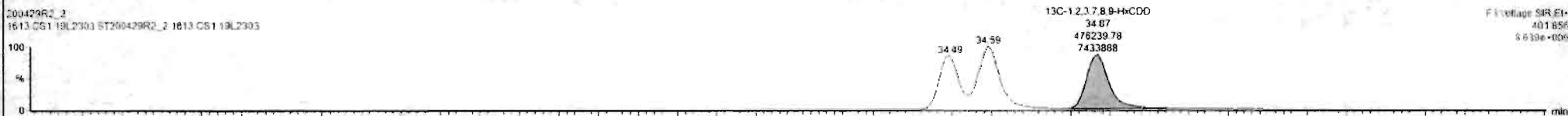


F3: Voltage SIR, EI+  
403.853  
6.809e+006





#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.731	NO	6.8815e3	1.4840e0	0.500	-2.6	5.35	0.547	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e5	2.500	-0.4	5.51	0.942	0.0510
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.187	NO	2.1618e4	9.9500e5	2.500	-3.1	6.53	0.515	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.225	NO	1.9028e4	8.4500e5	2.500	1.9	7.64	0.915	0.0599
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4785e4	6.5982e5	2.500	-0.2	6.93	0.856	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.923	0.0707
8	1,2,3,7,8-TCDF	25.11	0.746	NO	8.7318e3	2.2188e0	0.500	0.1	5.11	0.787	0.0402
9	1,2,3,7,8-PeCDF	29.82	1.542	NO	3.8824e4	1.6915e6	2.500	0.1	5.86	0.910	0.0523
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8866e4	1.6151e6	2.500	-0.1	4.90	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2618e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.187	NO	2.5479e4	1.1832e6	2.500	-1.4	7.23	0.674	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8511e4	8.7735e5	2.500	1.8	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7338e4	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	1.1591e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



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200429R2\_2 CAP NUM

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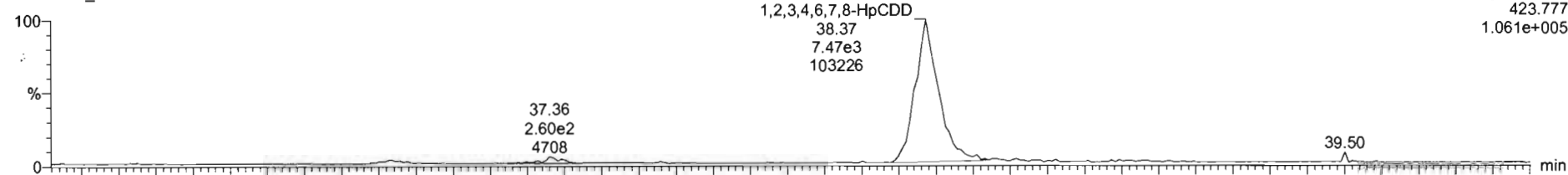
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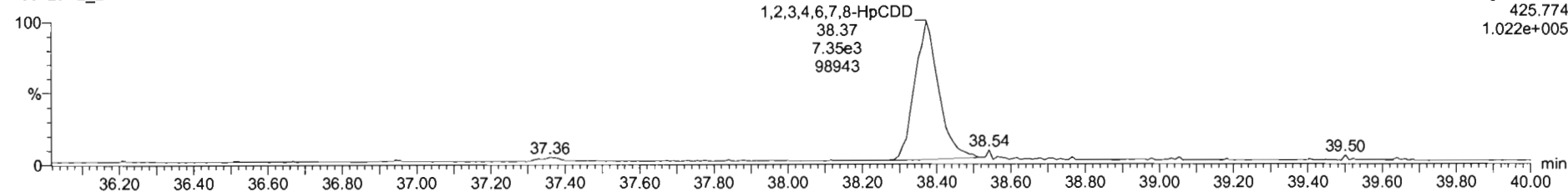
**1,2,3,4,6,7,8-HpCDD**

200429R2\_2



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

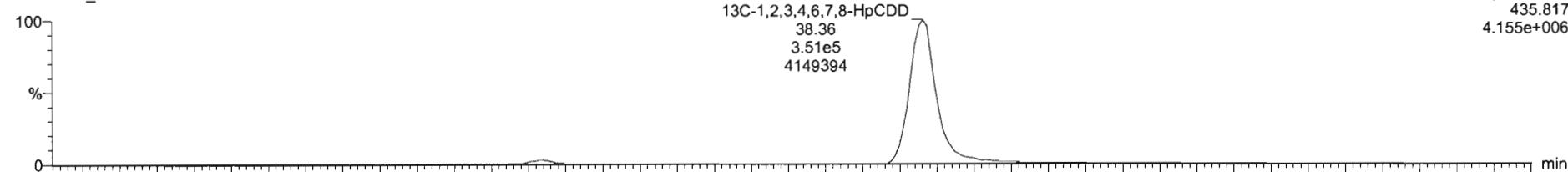
200429R2\_2



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

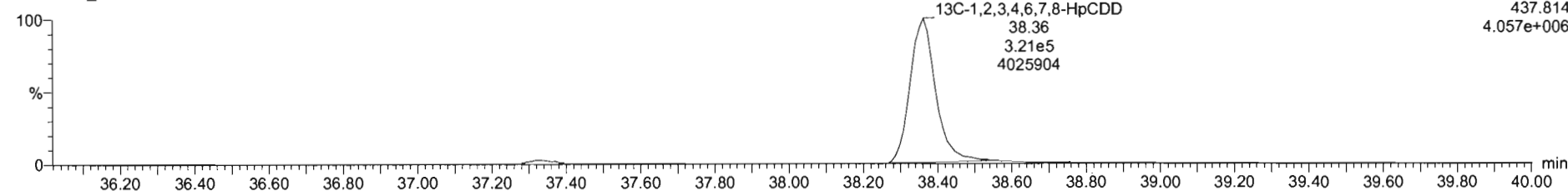
**13C-1,2,3,4,6,7,8-HpCDD**

200429R2\_2

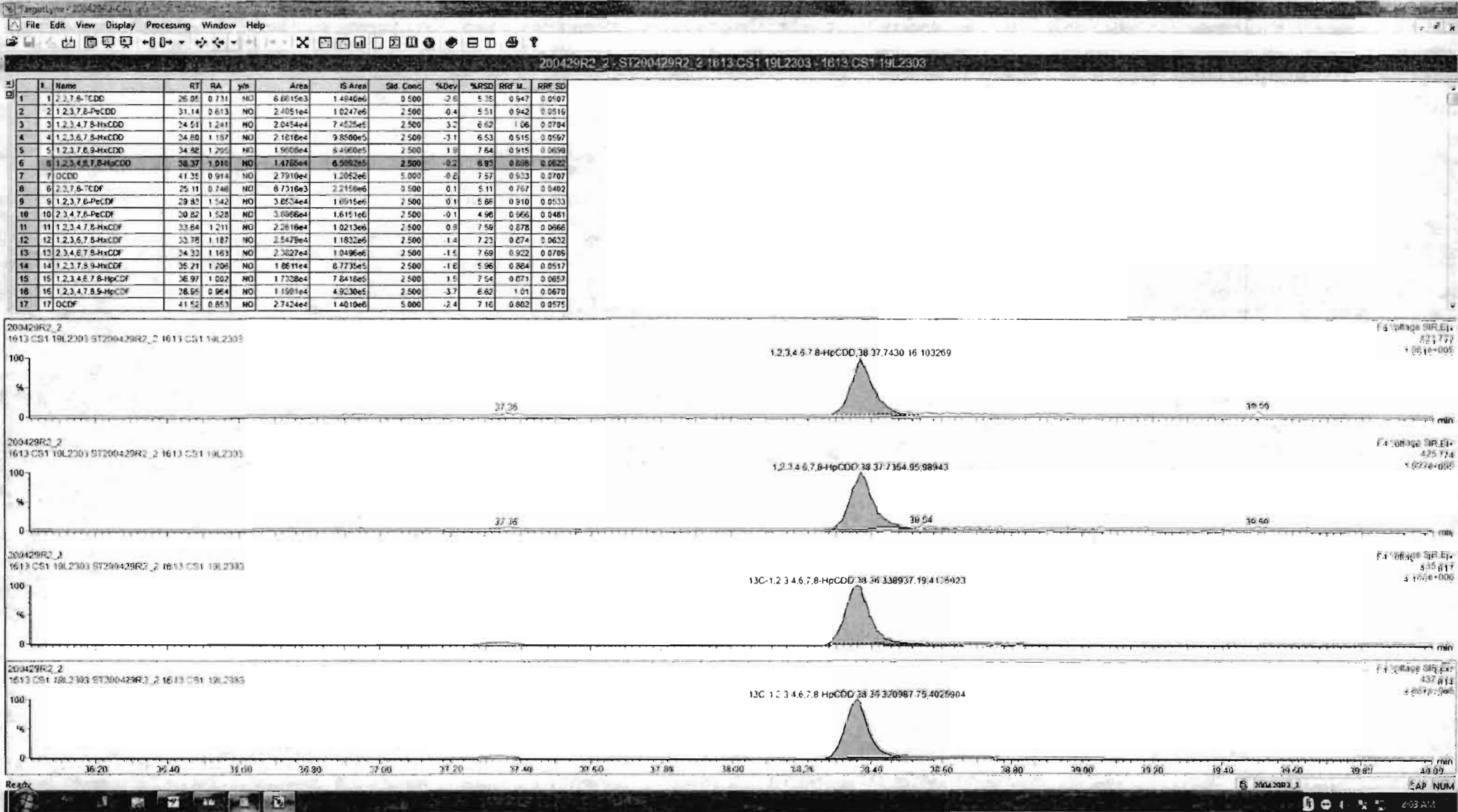


F4:Voltage SIR,EI+  
435.817  
4.155e+006

200429R2\_2



F4:Voltage SIR,EI+  
437.814  
4.057e+006



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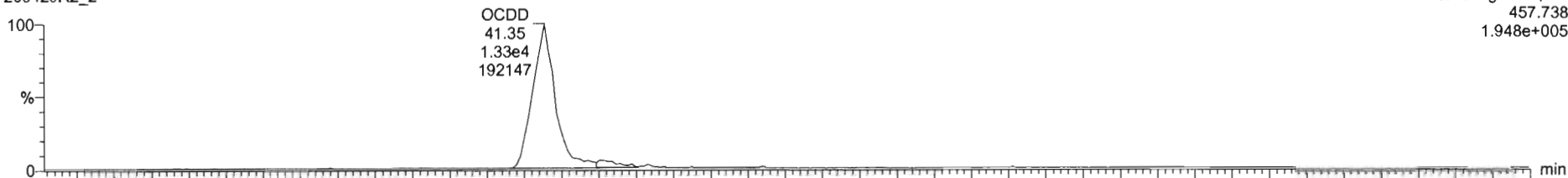
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**OCDD**

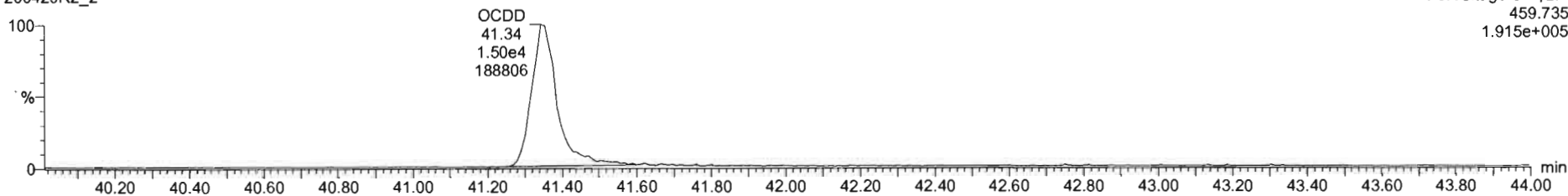
200429R2\_2

F5:Voltage SIR,EI+  
457.738  
1.948e+005



200429R2\_2

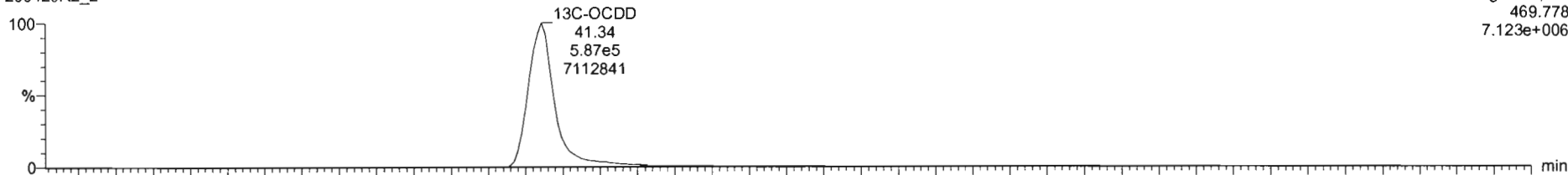
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459.735  
1.915e+005



**13C-OCDD**

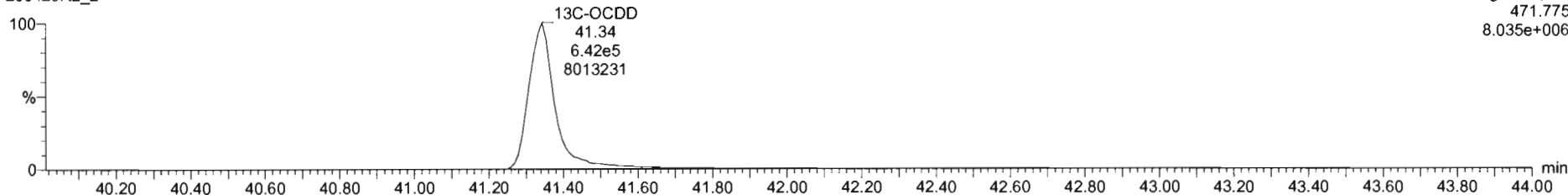
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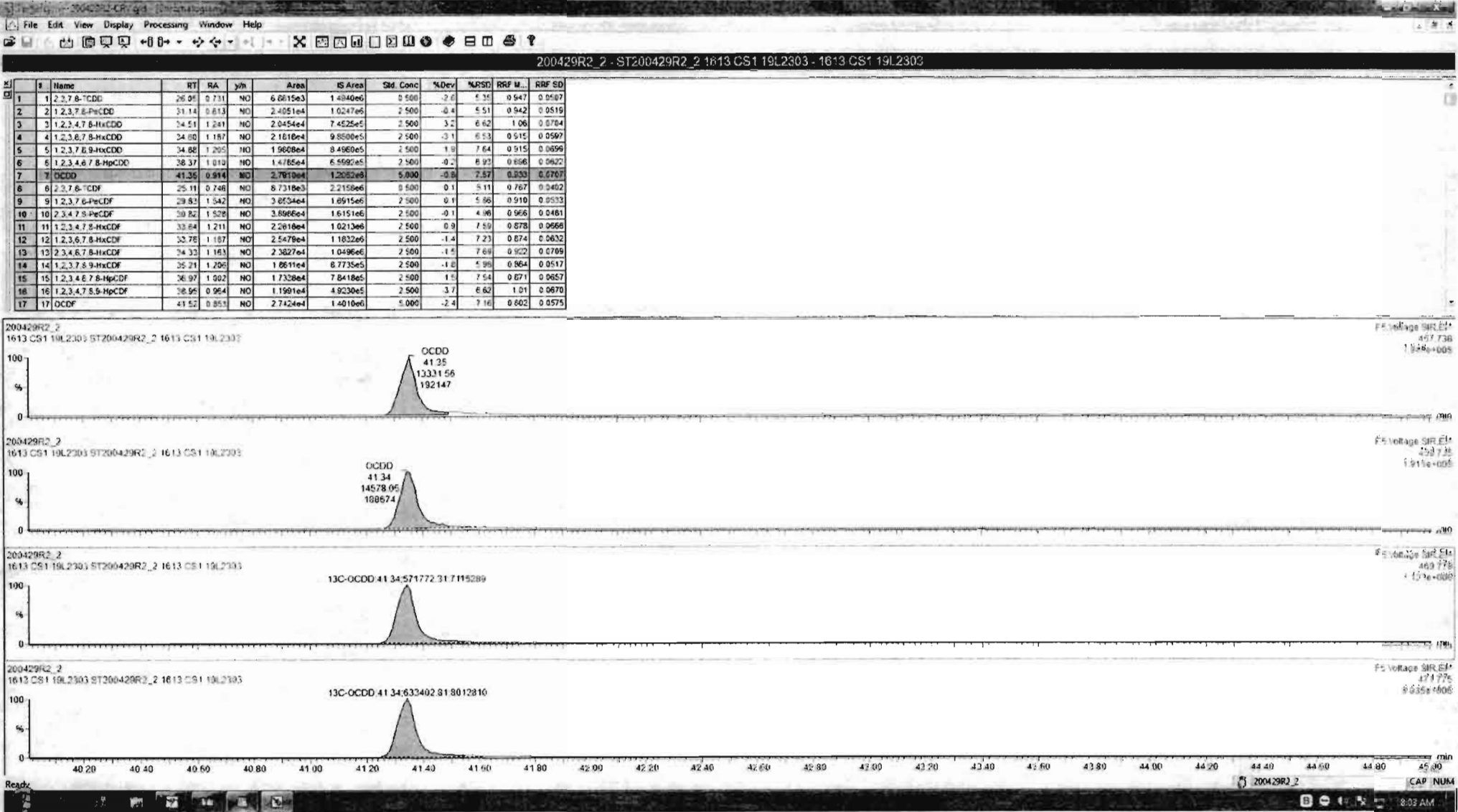
F5:Voltage SIR,EI+  
469.778  
7.123e+006



200429R2\_2

F5:Voltage SIR,EI+  
471.775  
8.035e+006





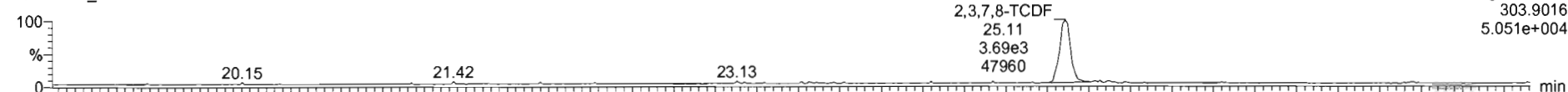
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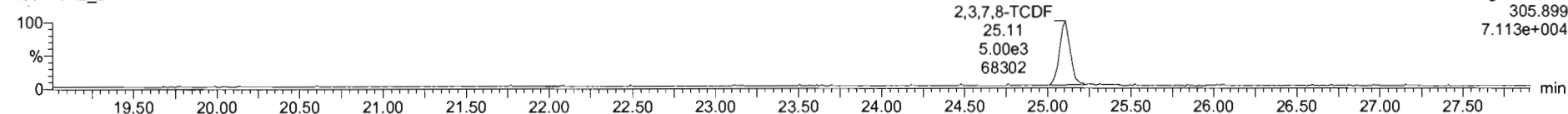
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**2,3,7,8-TCDF**

200429R2\_2

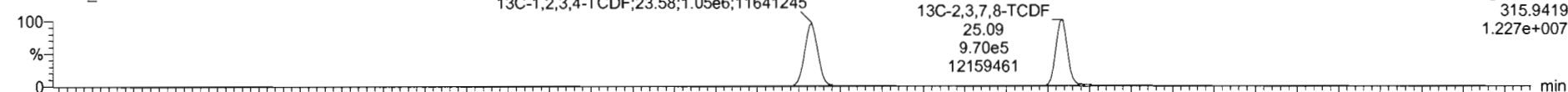


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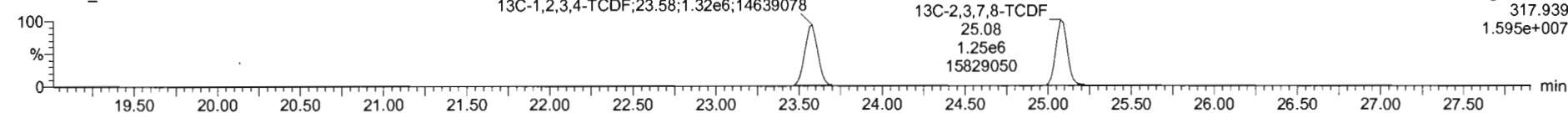


**13C-2,3,7,8-TCDF**

200429R2\_2

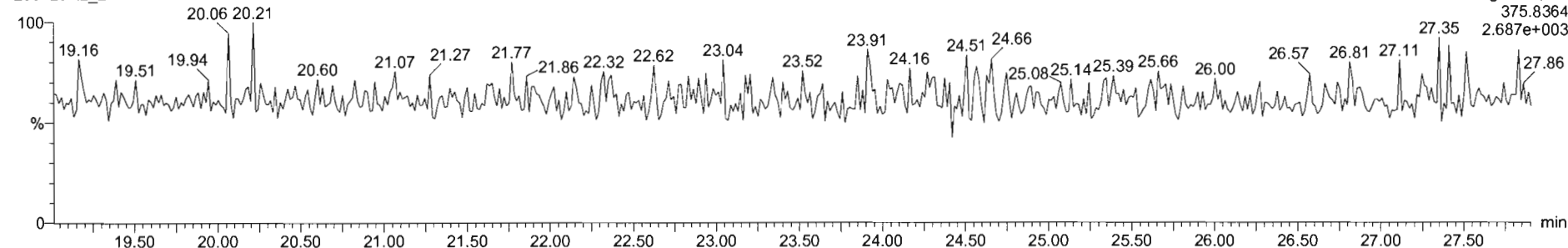


200429R2\_2



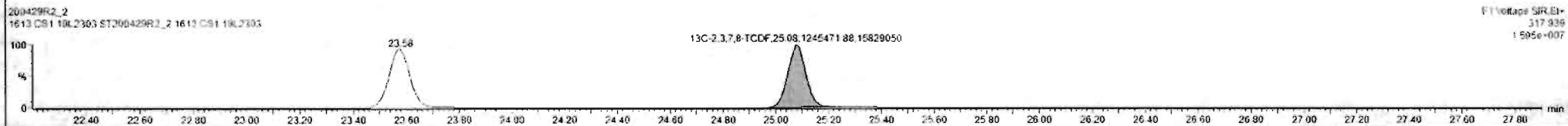
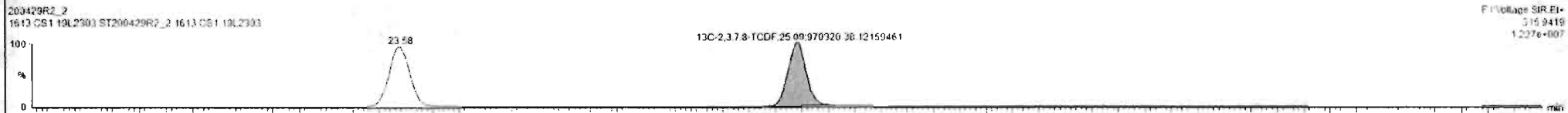
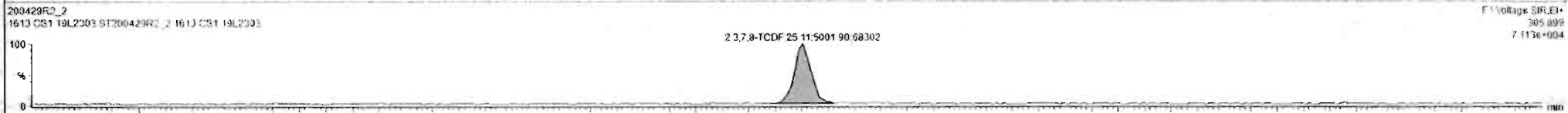
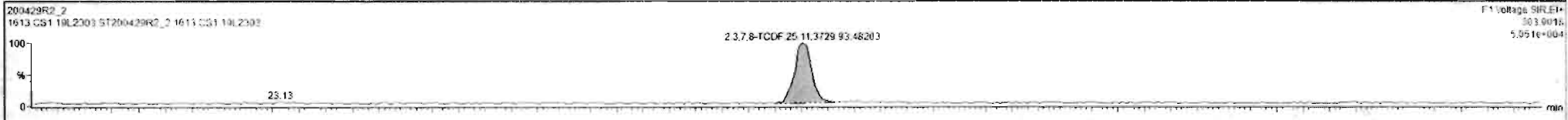
**DPE1**

200429R2\_2





#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1 2,3,7,8-TCDD	25.05	0.731	NO	6.6615e3	1.4940e6	0.500	-2.6	5.35	0.947	0.0507
2	2 1,2,3,7,8-PeCDD	31.14	0.813	NO	2.4051e4	1.0247e6	2.500	0.4	5.51	0.942	0.0515
3	3 1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	4 1,2,3,6,7,8-HxCDD	34.80	1.187	NO	2.1618e4	9.5006e5	2.500	-3.1	6.53	0.915	0.0597
5	5 1,2,3,7,8,9-HxCDD	34.98	1.205	NO	1.9808e4	8.4990e5	2.500	1.9	7.64	0.915	0.0699
6	6 1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4785e4	6.5990e5	2.500	-0.2	6.37	0.856	0.0622
7	7 OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.2	7.57	0.523	0.0707
8	8 2,3,7,8-TCDF	25.11	0.746	NO	8.7518e3	2.2158e6	0.500	0.1	5.11	0.787	0.0462
9	9 1,2,3,7,8-PeCDF	29.83	1.542	NO	3.6554e4	1.6915e6	2.500	0.1	5.86	0.910	0.0533
10	10 2,3,4,7,8-PeCDF	30.82	1.628	NO	3.8966e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0481
11	11 1,2,3,4,7,8-HxCDF	33.64	1.211	NO	2.2610e4	1.0213e6	2.500	0.9	7.19	0.878	0.0666
12	12 1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1622e6	2.500	-1.4	7.23	0.874	0.0632
13	13 2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	14 1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8611e4	8.7735e5	2.500	-1.6	5.96	0.864	0.0517
15	15 1,2,3,4,6,7,8-HpCDF	38.97	1.002	NO	1.7328e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	16 1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1991e4	4.9230e5	2.500	3.7	6.62	1.01	0.0670
17	17 OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



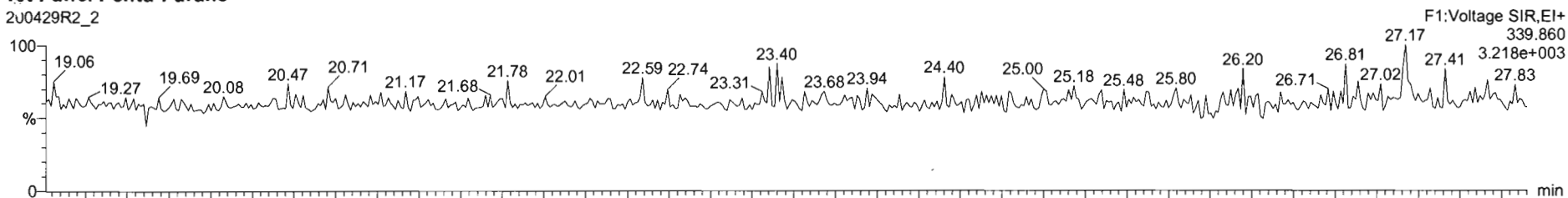
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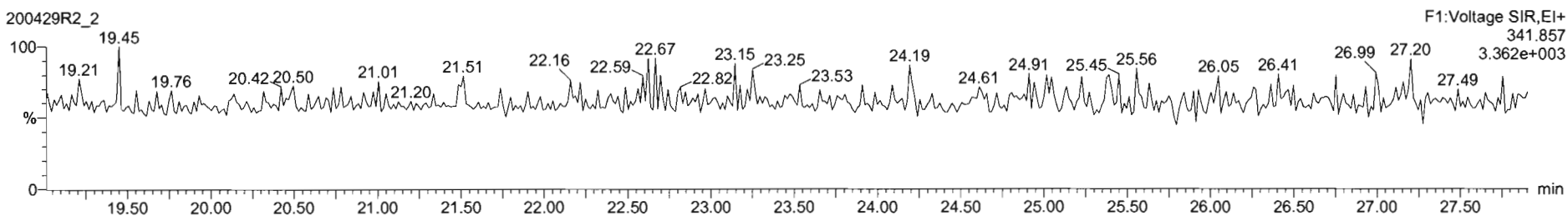
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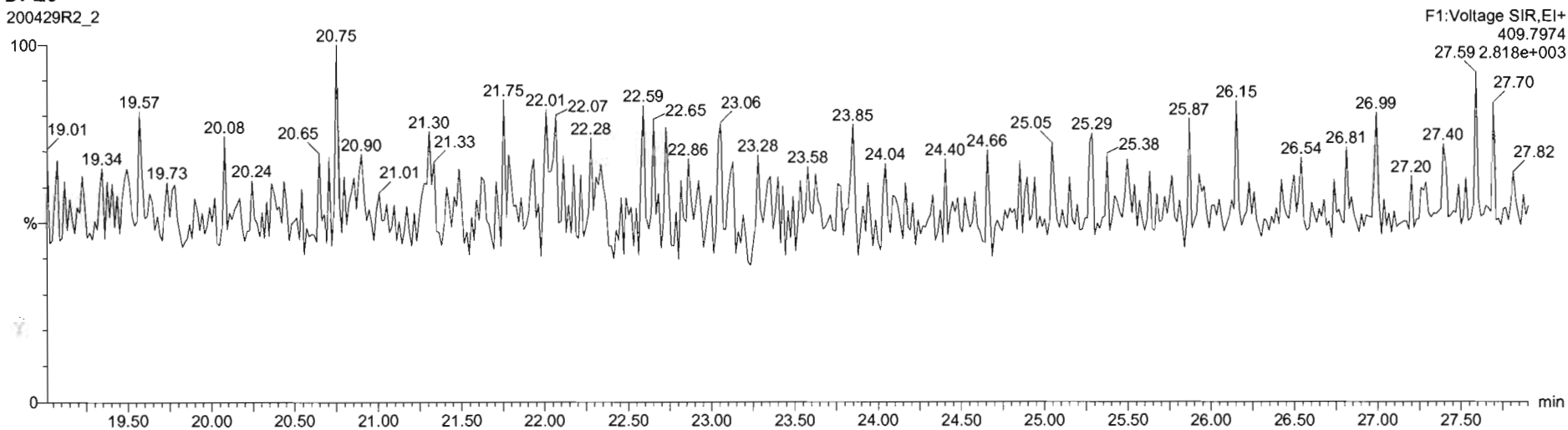


200429R2\_2



DPE6

200429R2\_2





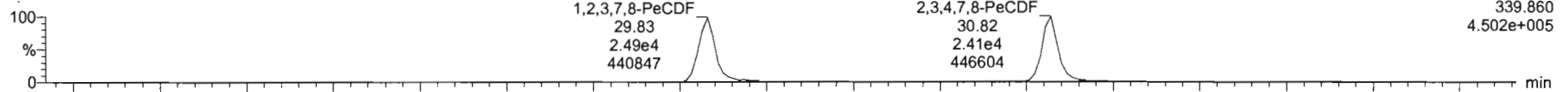
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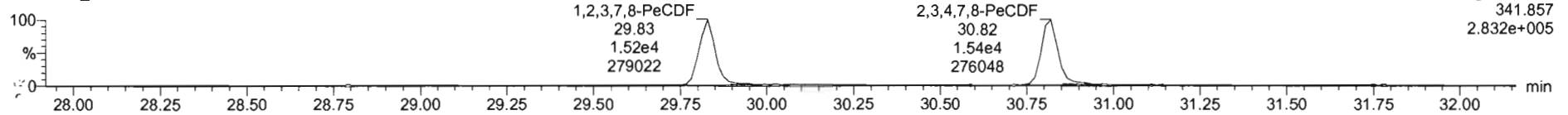
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**1,2,3,7,8-PeCDF**

200429R2\_2

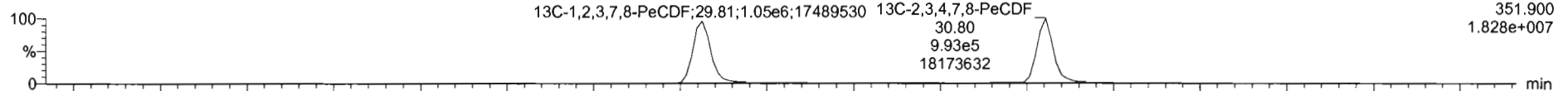


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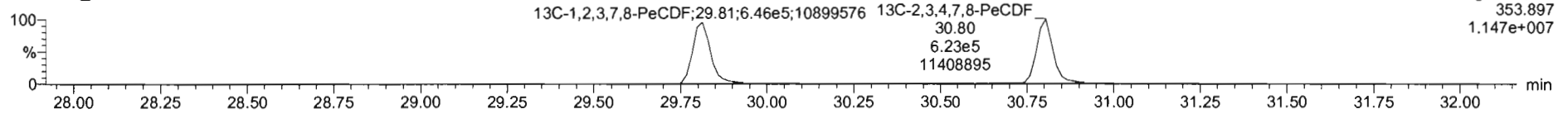


**13C-1,2,3,7,8-PeCDF**

200429R2\_2

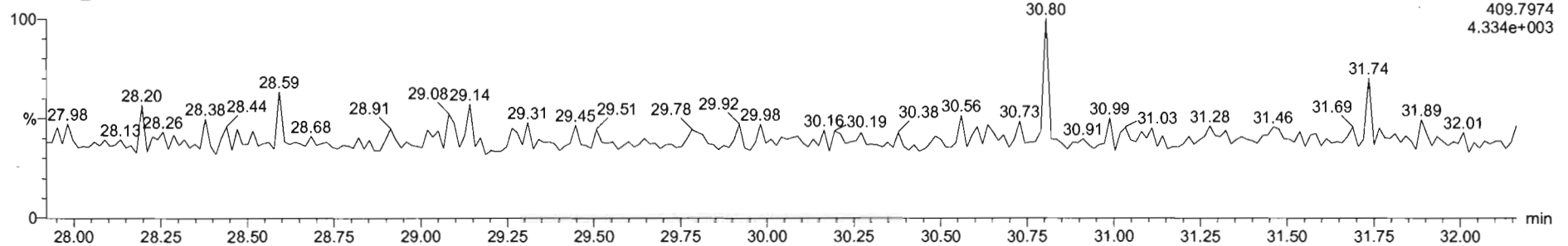


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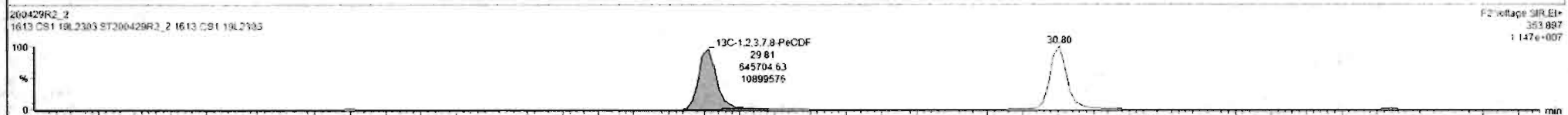
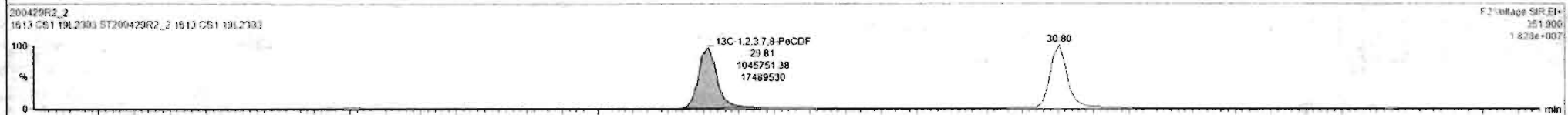
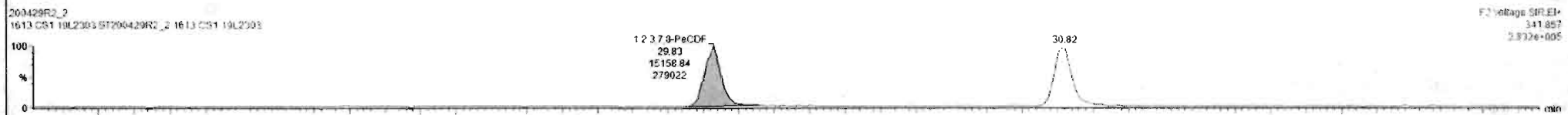
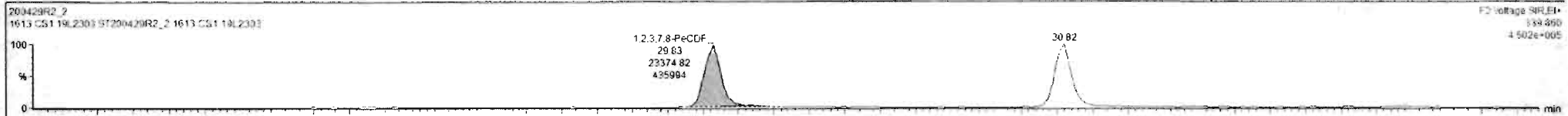


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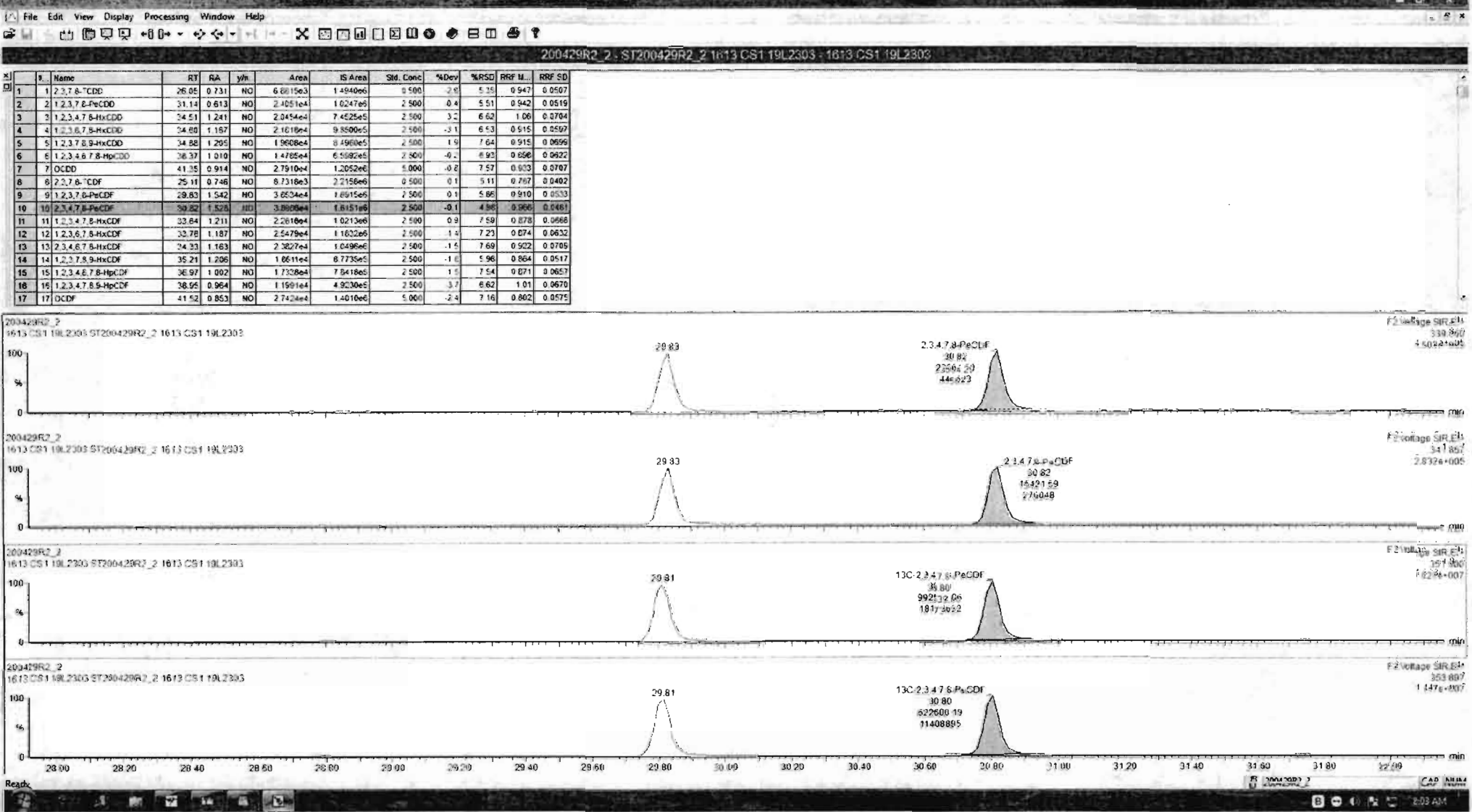
200429R2\_2



#	Name	RT	RA	ym	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	28.95	0.731	NO	6.2615e3	1.4840e6	0.500	-2.8	5.37	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	0.4	5.51	0.942	0.0515
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4225e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,7,8-HxCDF	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	34.98	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	3.6534e4	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	0.653	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.662	0.0575



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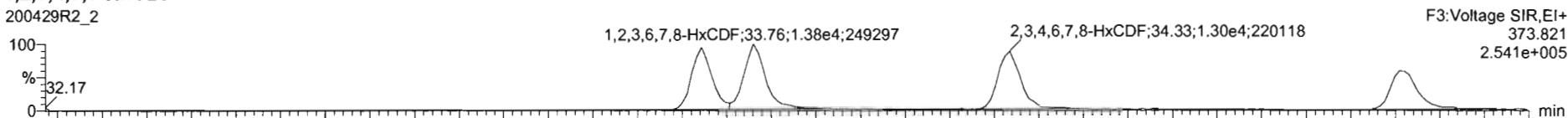
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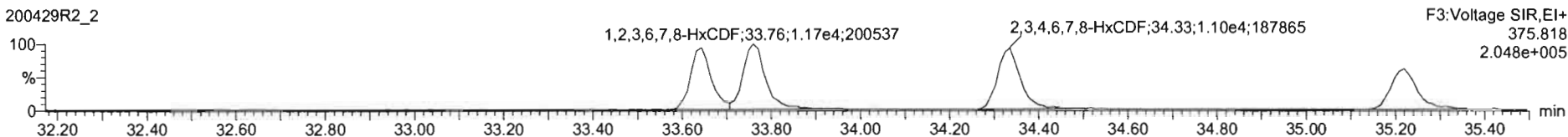
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**1,2,3,4,7,8-HxCDF**

200429R2\_2

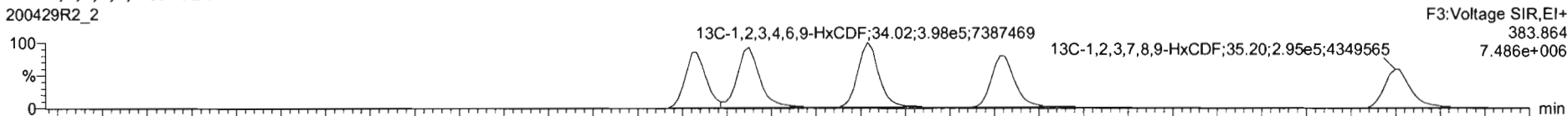


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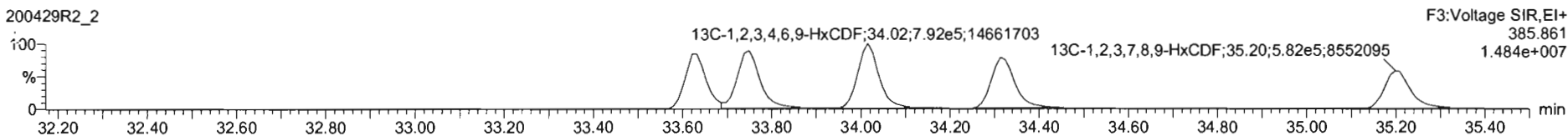


**13C-1,2,3,4,7,8-HxCDF**

200429R2\_2

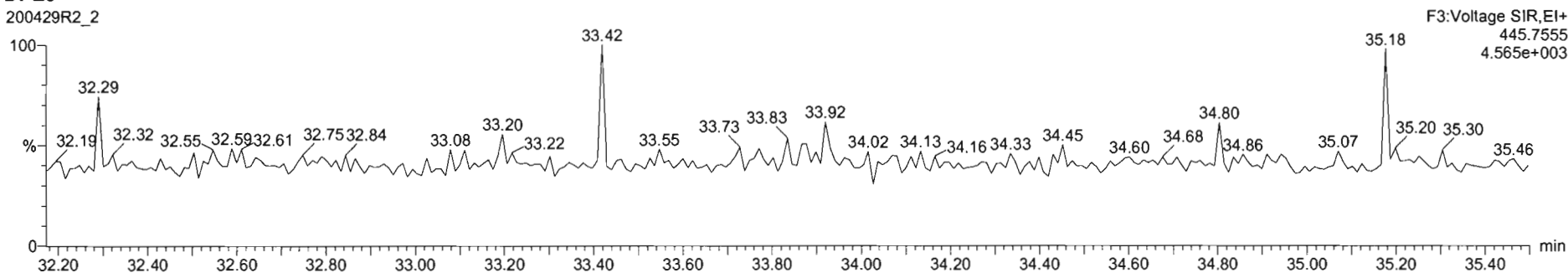


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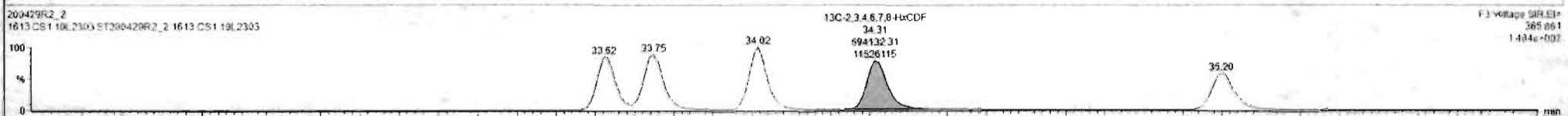
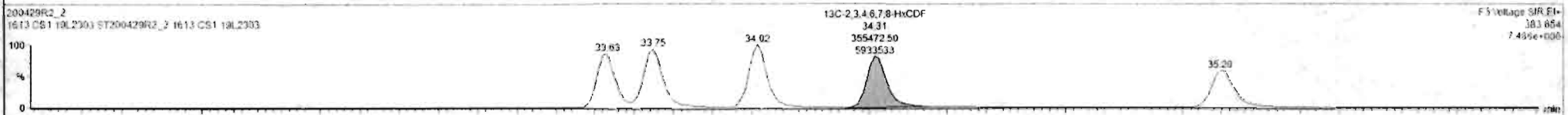


**DPE3**

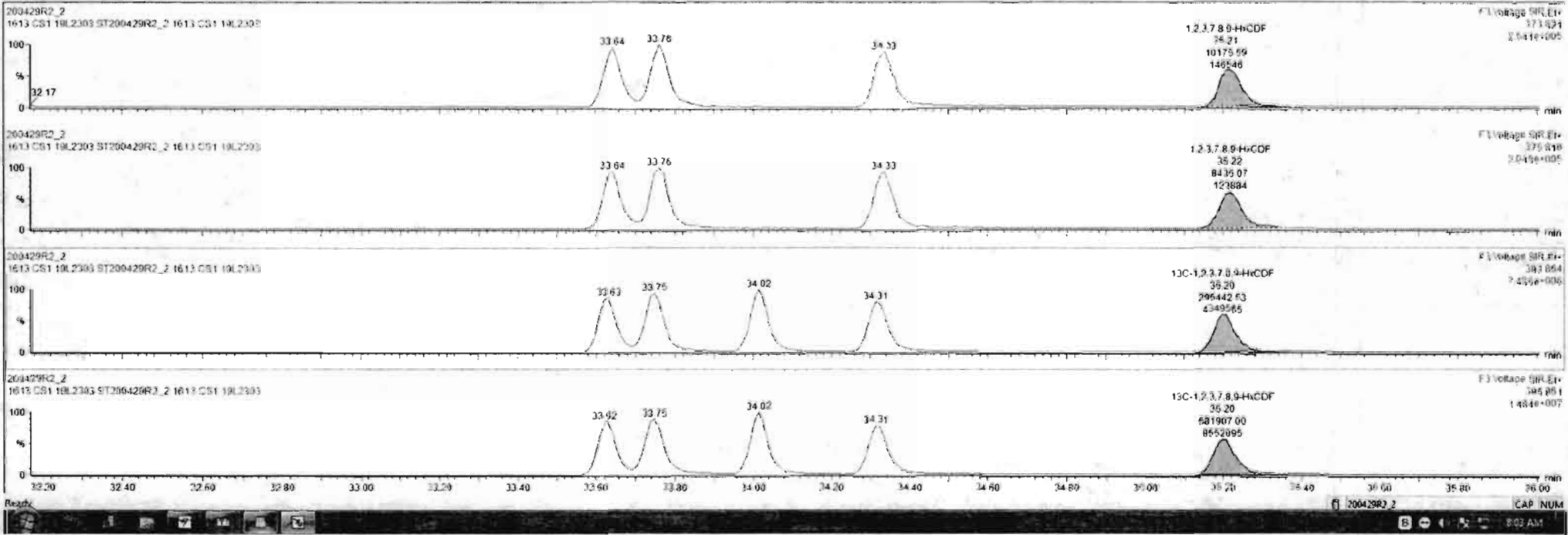
200429R2\_2



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDF	26.95	0.731	NO	6.8615e3	1.4840e6	0.500	-2.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.14	0.613	NO	2.4051e4	1.0247e5	2.500	0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.187	NO	2.1618e4	9.8000e5	2.500	-2.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.80	1.205	NO	1.9608e4	8.4960e5	2.500	1.9	7.64	0.915	0.0698
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.858	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	6.7316e3	2.2158e6	0.500	0.1	5.11	0.767	0.0403
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.6934e4	1.6915e6	2.500	0.1	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8966e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2810e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1632e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	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	5.66	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	29.82	1.528	NO	3.8666e4	1.6151e6	2.500	-0.1	4.90	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2616e4	1.0213e6	2.500	0.0	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1032e6	2.500	-1.4	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8071e4	8.7735e5	2.500	-1.0	5.96	0.804	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.6418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.964	NO	1.1991e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



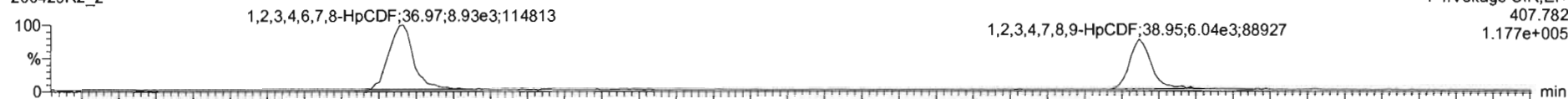
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

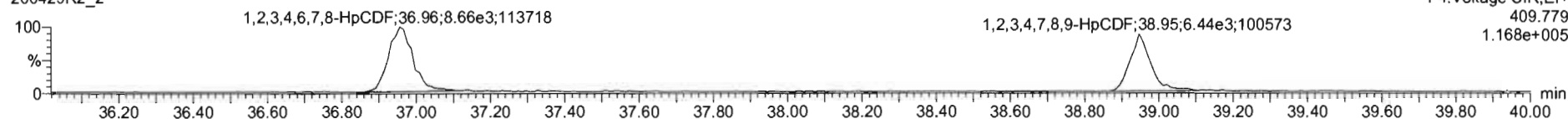
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**1,2,3,4,6,7,8-HpCDF**

200429R2\_2

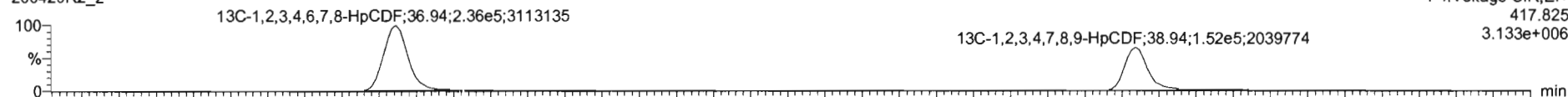


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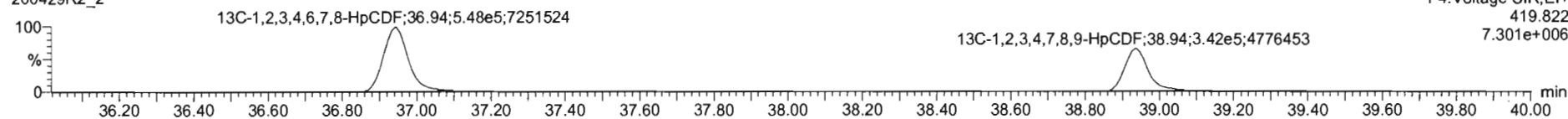


**13C-1,2,3,4,6,7,8-HpCDF**

200429R2\_2

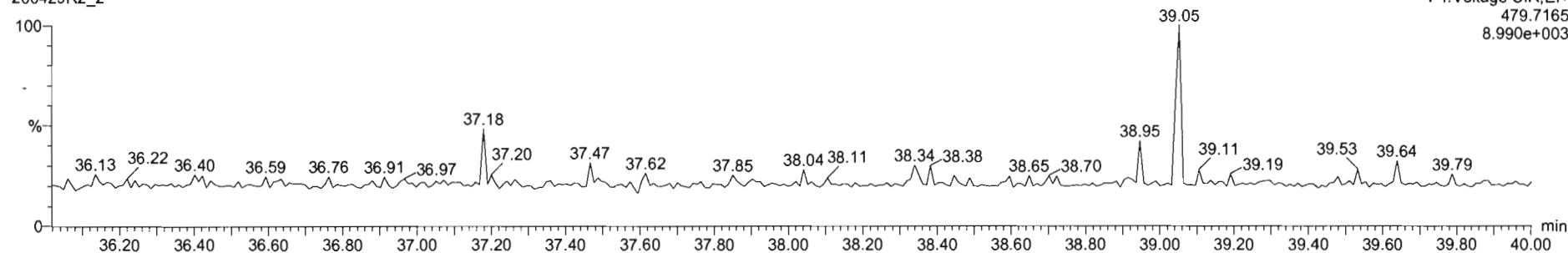


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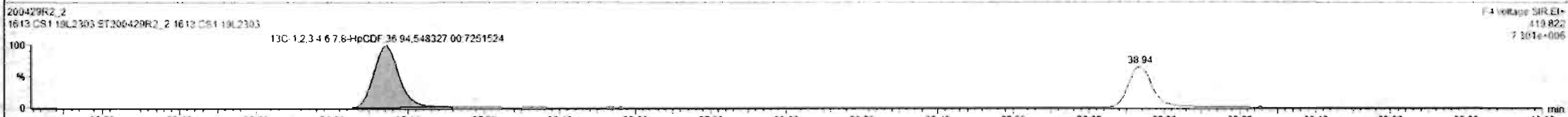
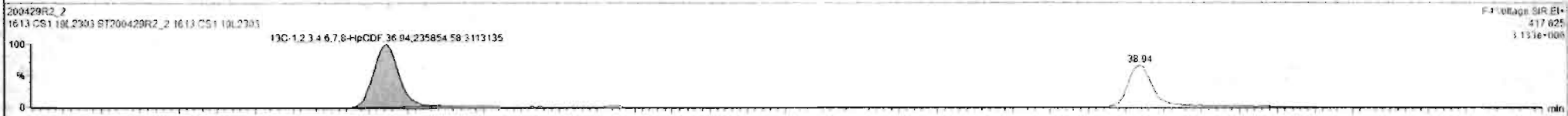
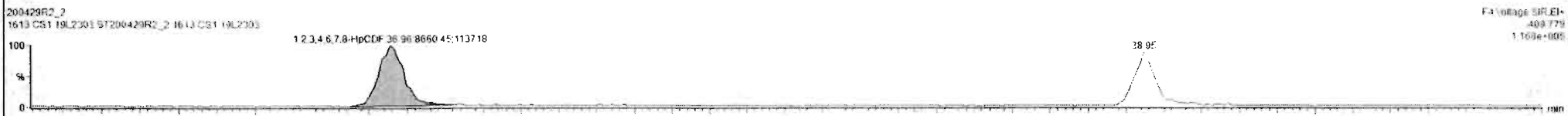
**DPE4**

200429R2\_2





#	Name	RT	RA	yln	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	7.4225e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.157	NO	2.1618e4	9.8600e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.92	1.205	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	0.0622
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	3.0734e4	1.0915e6	2.500	0.1	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.028	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





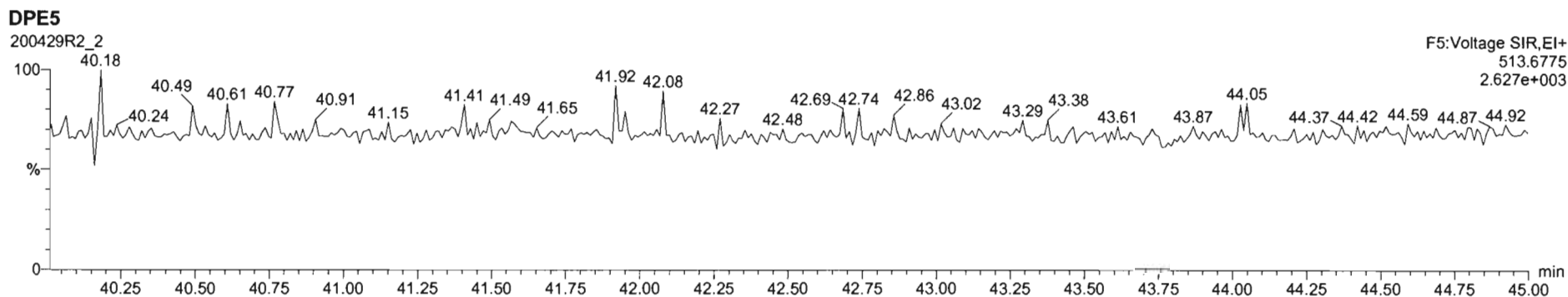
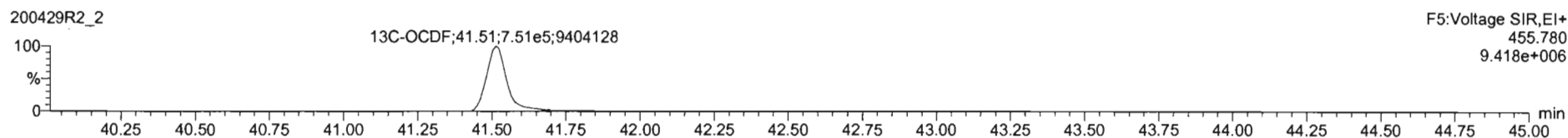
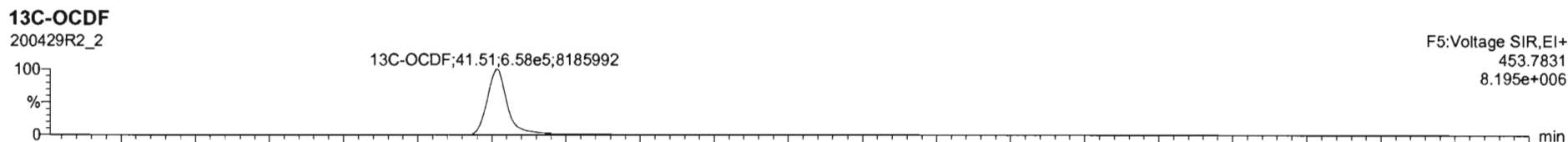
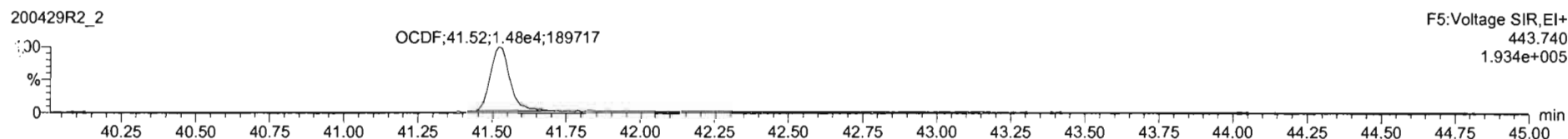
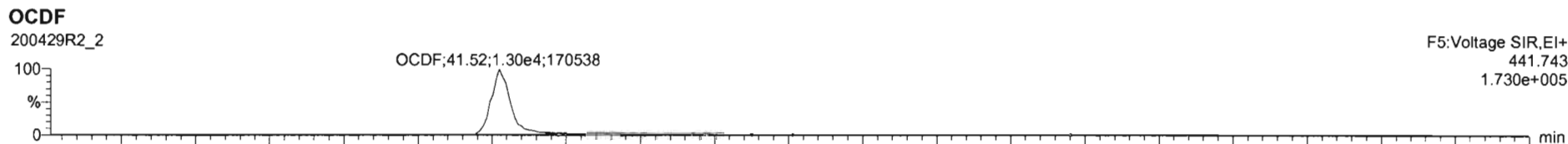
#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.95	0.731	NO	6.8615e3	1.4940e6	0.500	-2.8	5.35	0.947	0.9107
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.9519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.42	1.06	0.9764
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	0.9597
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	0.9696
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4785e4	6.5990e5	2.500	-0.2	6.93	0.958	0.9822
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.2	7.57	0.933	0.9707
8	2,3,7,8-TCDF	29.11	0.748	NO	8.7318e3	2.2158e6	0.500	0.1	5.11	0.757	0.9462
9	1,2,3,7,8-PeCDF	29.43	1.542	NO	3.6534e4	1.6915e6	2.500	0.1	5.62	0.910	0.9533
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8986e4	1.6151e6	2.500	-0.1	4.98	0.966	0.9481
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	0.9668
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	0.9632
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	0.9709
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	0.9517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7338e4	7.6418e5	2.500	1.5	7.54	0.871	0.9657
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	0.9679
17	OCDF	41.52	0.953	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.962	0.9575



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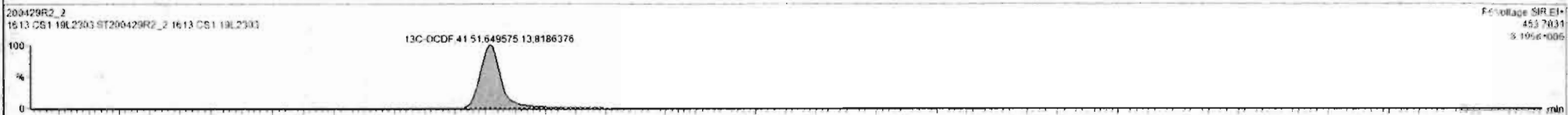
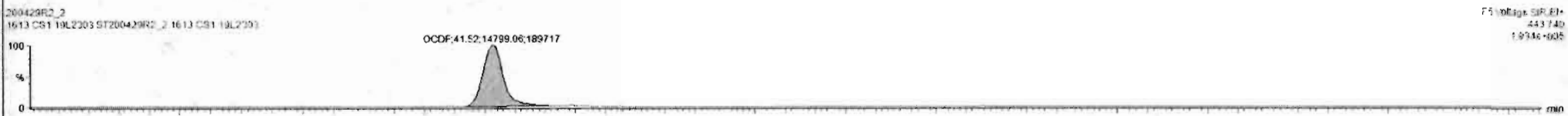
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200429R2\_2 - ST200429R2\_2 - 1613 CS1 19L2303 - 1613 CS1 19L2303

#	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	-0.8	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	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	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3227e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8611e4	8.7735e5	2.500	-1.6	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.55	0.954	NO	1.1591e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.883	NO	2.7424e4	1.4010e6	5.000	-2.4	7.18	0.802	0.0573

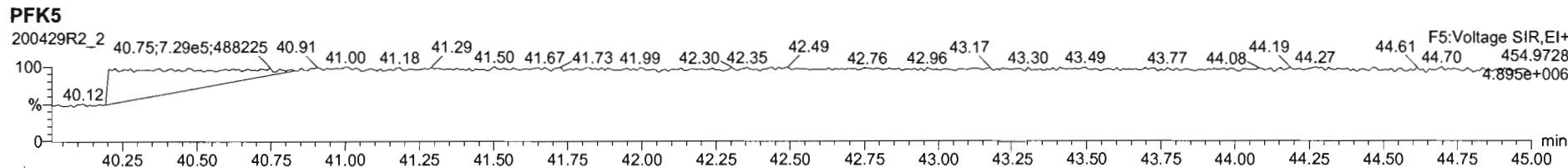
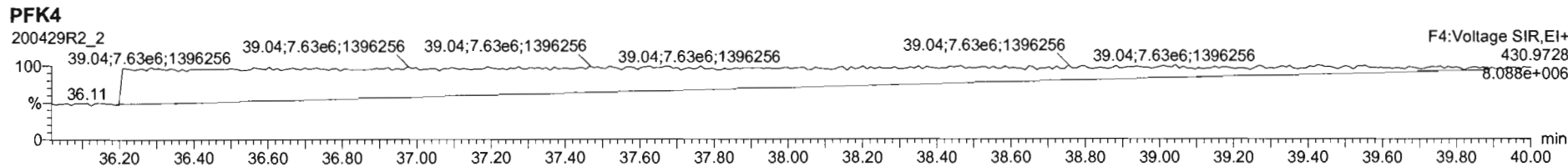
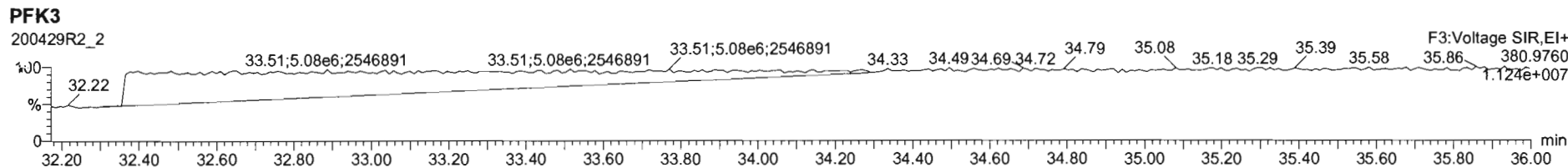
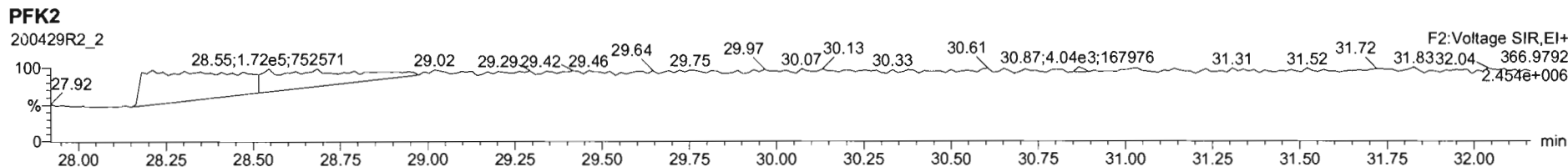
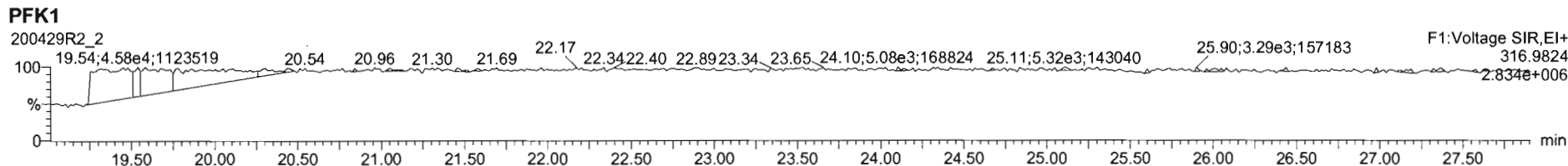


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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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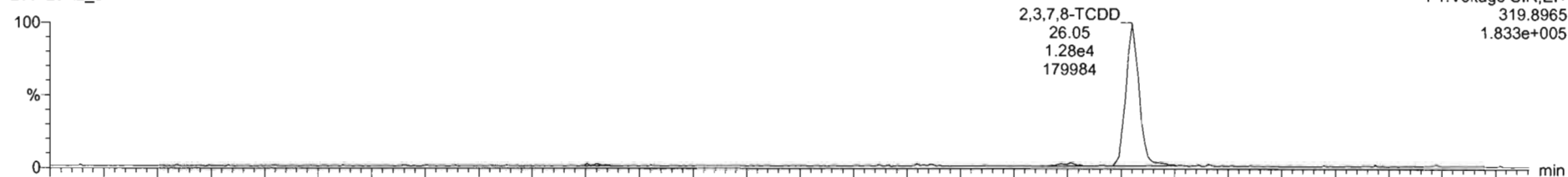
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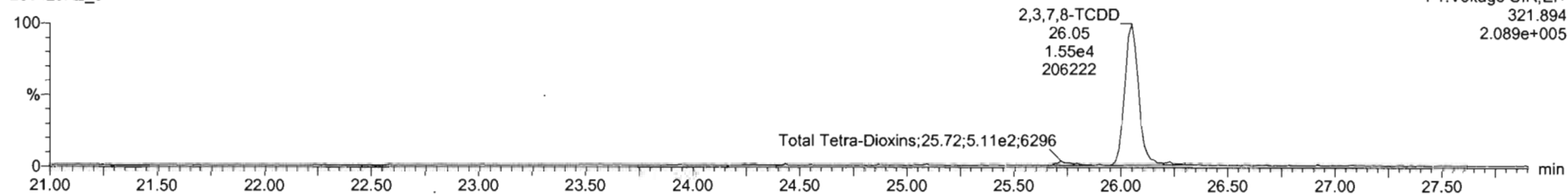
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**2,3,7,8-TCDD**

200429R2\_3

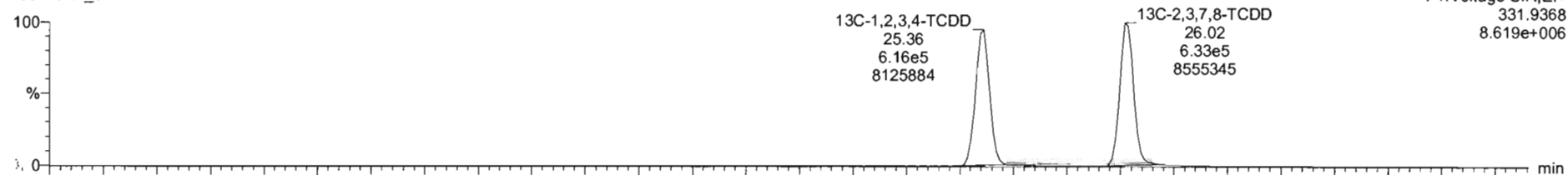


200429R2\_3

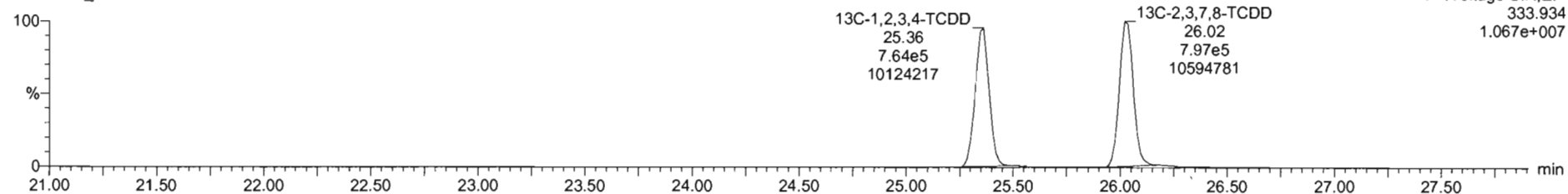


**13C-2,3,7,8-TCDD**

200429R2\_3

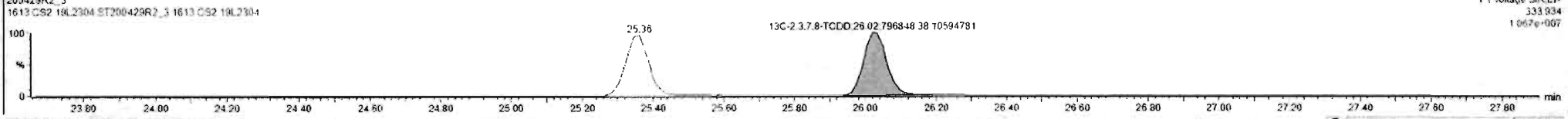
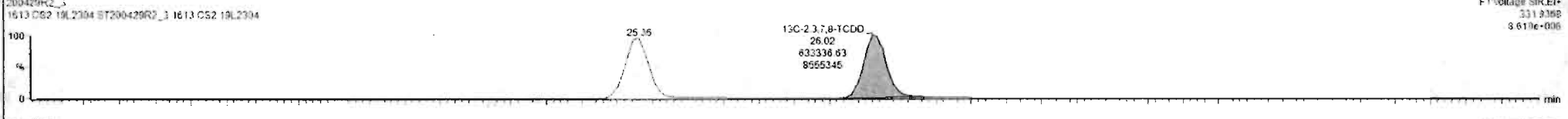
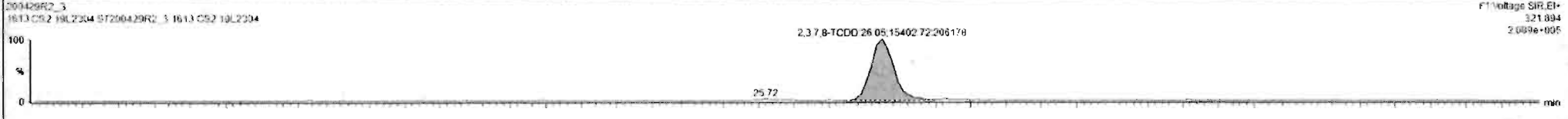
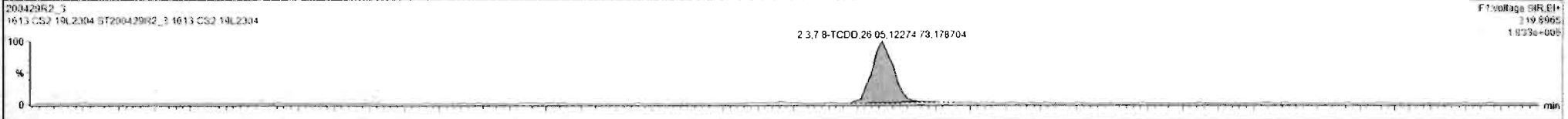


200429R2\_3



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	6.3850e5	10.000	3.1	6.93	0.656	0.0632
7	OCDD	41.24	0.883	NO	1.0629e5	1.0963e6	20.000	5.8	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.737	NO	3.4210e4	2.8671e6	2.000	4.1	5.11	0.757	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.567	NO	1.5997e5	1.6425e6	10.000	7.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.595	NO	1.6102e5	1.6556e6	10.000	6.4	4.95	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.83	1.217	NO	9.5102e4	1.0175e6	10.000	6.4	7.59	0.878	0.0686
12	1,2,3,6,7,8-HxCDF	33.78	1.209	NO	1.0898e5	1.1386e6	10.000	9.5	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.217	NO	1.0168e5	1.0301e6	10.000	7.1	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.223	NO	7.7026e4	8.5676e5	10.000	4.9	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.95	0.958	NO	6.9491e4	7.6914e5	10.000	3.7	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	1.014	NO	4.9417e4	4.7128e5	10.000	3.5	6.62	1.01	0.0670
17	OCDF	41.52	0.877	NO	1.6707e5	1.2711e6	20.000	5.0	7.16	0.802	0.0575



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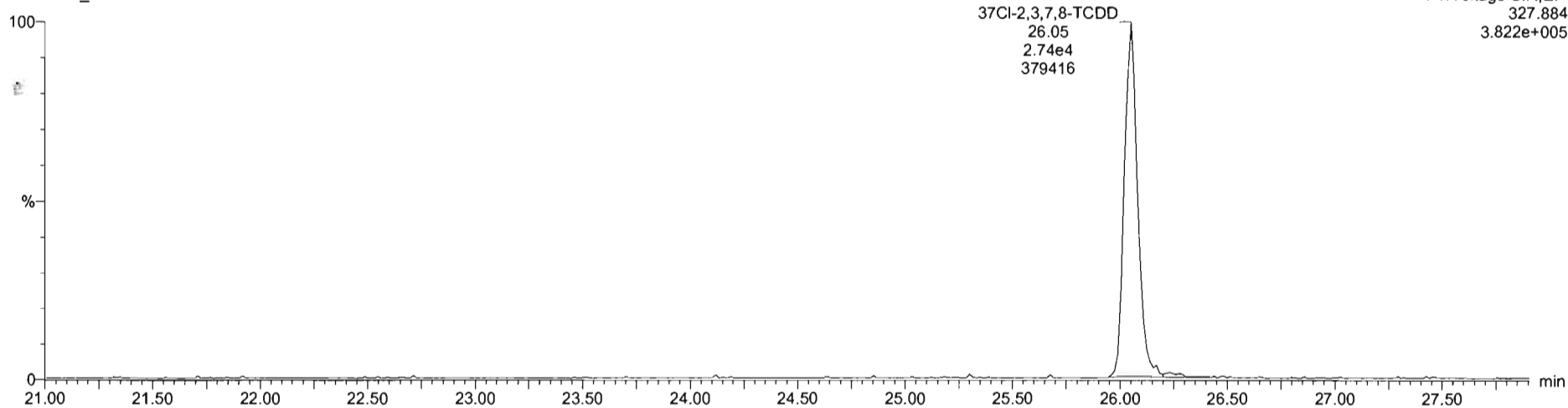
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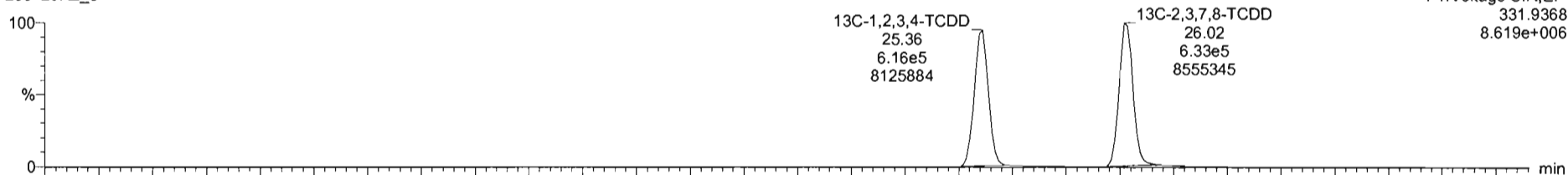
**37Cl-2,3,7,8-TCDD**

200429R2\_3

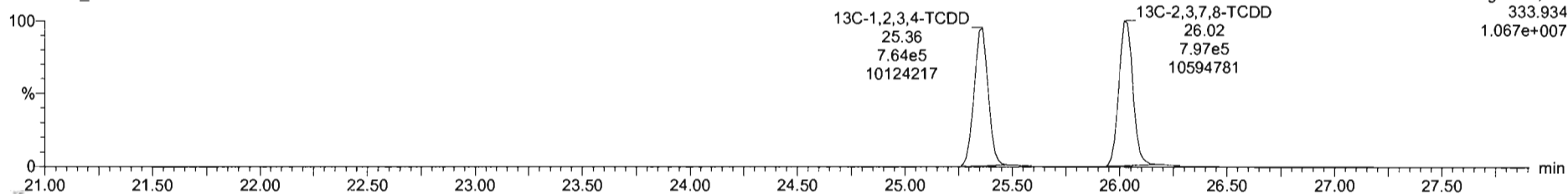


**13C-1,2,3,4-TCDD**

200429R2\_3



200429R2\_3



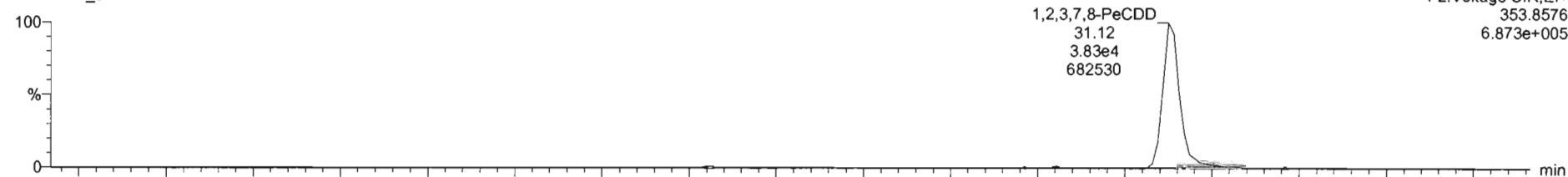
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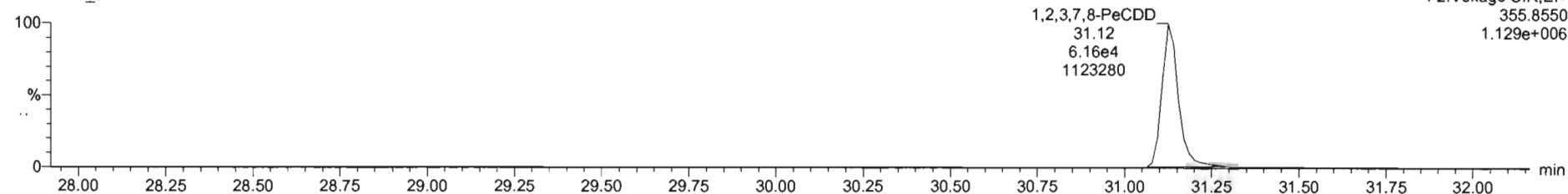
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**1,2,3,7,8-PeCDD**

200429R2\_3

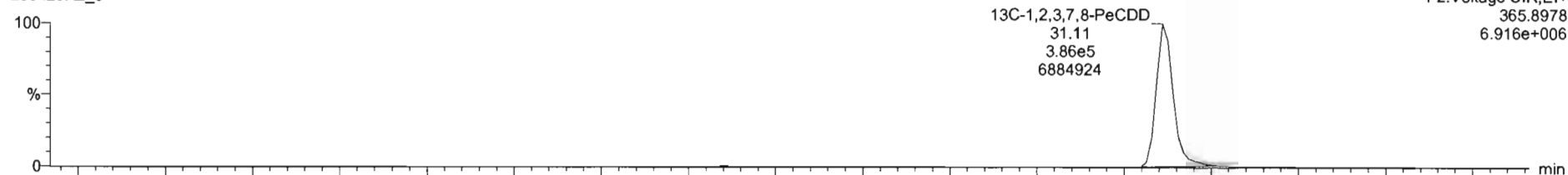


200429R2\_3

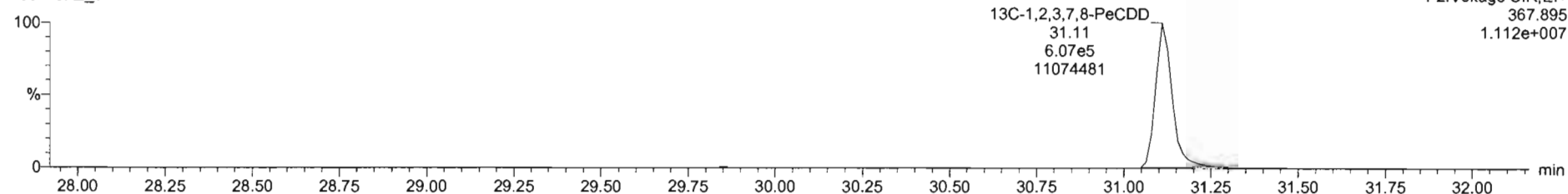


**13C-1,2,3,7,8-PeCDD**

200429R2\_3



200429R2\_3





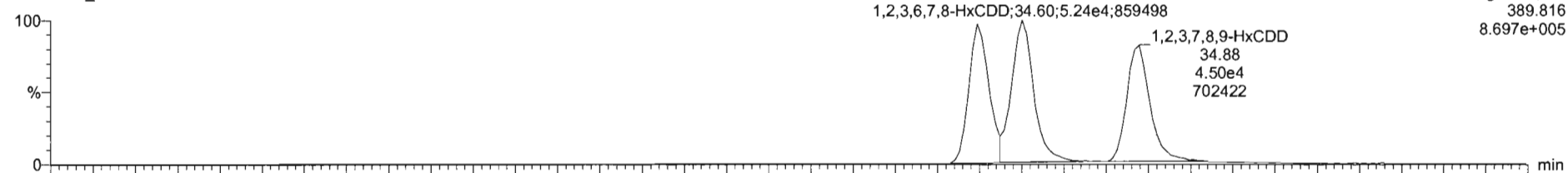
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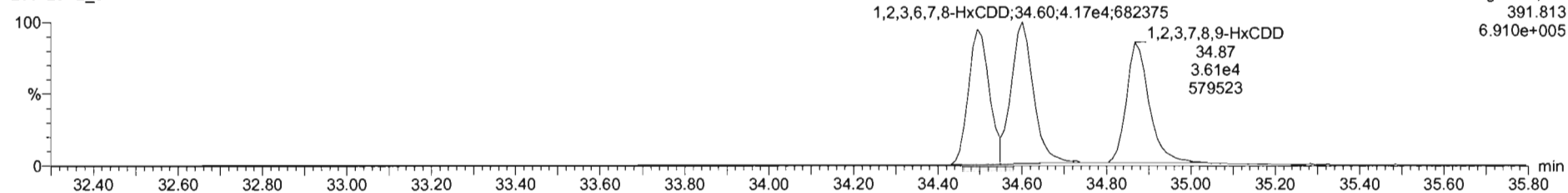
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**1,2,3,4,7,8-HxCDD**

200429R2\_3

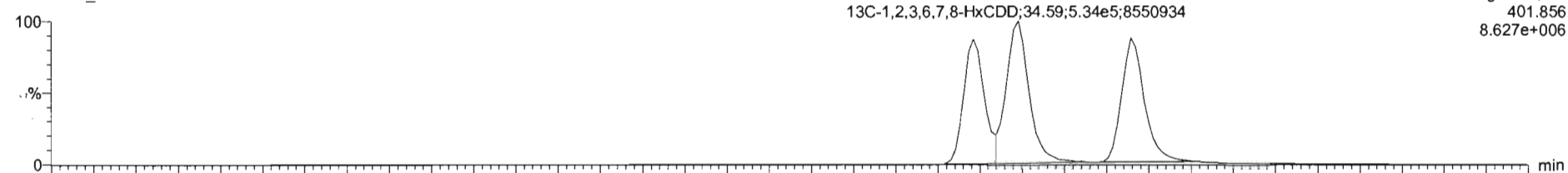


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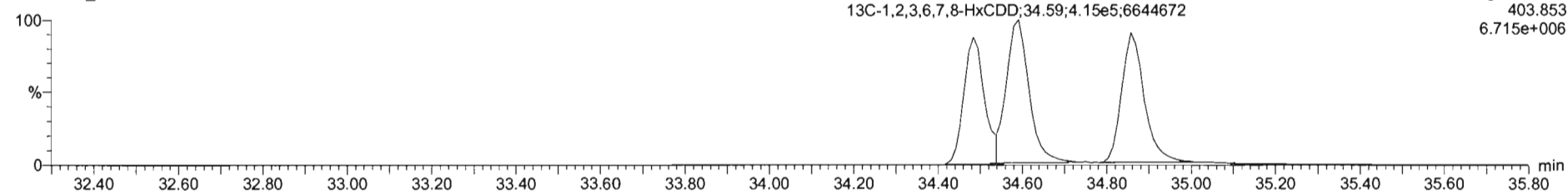


**13C-1,2,3,4,7,8-HxCDD**

200429R2\_3



200429R2\_3



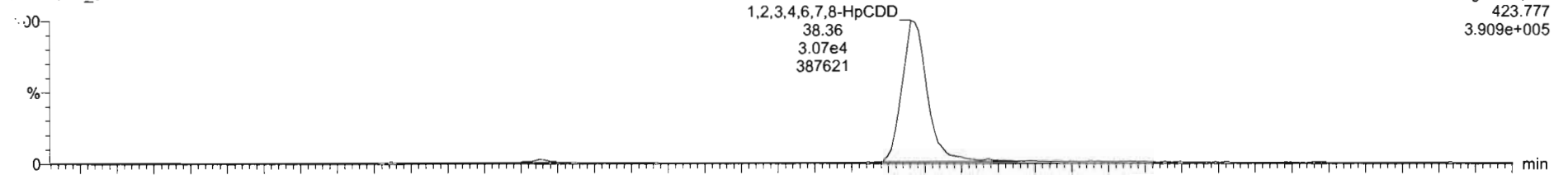
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

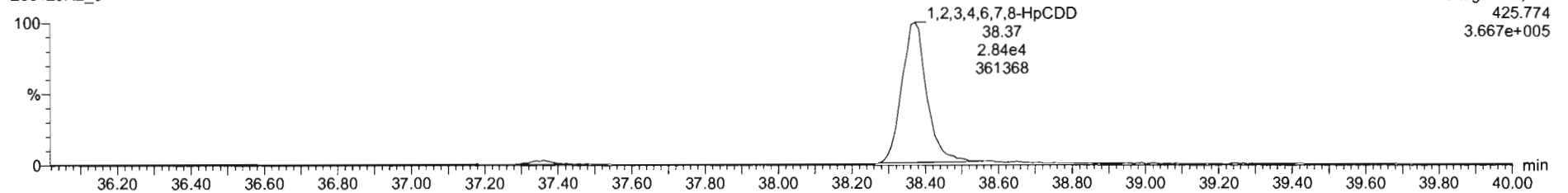
Name: 200429R2\_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200429R2\_3

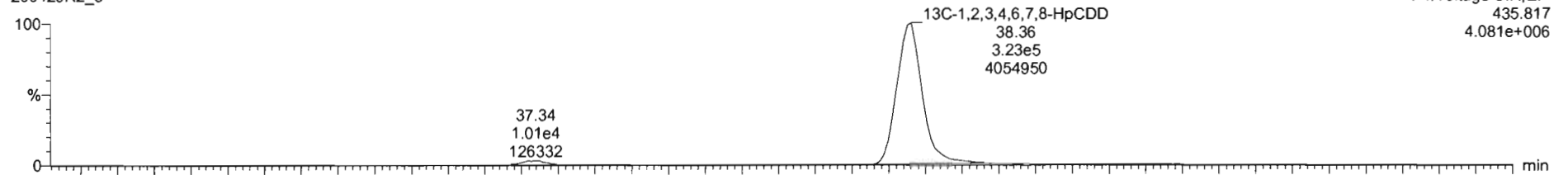


200429R2\_3

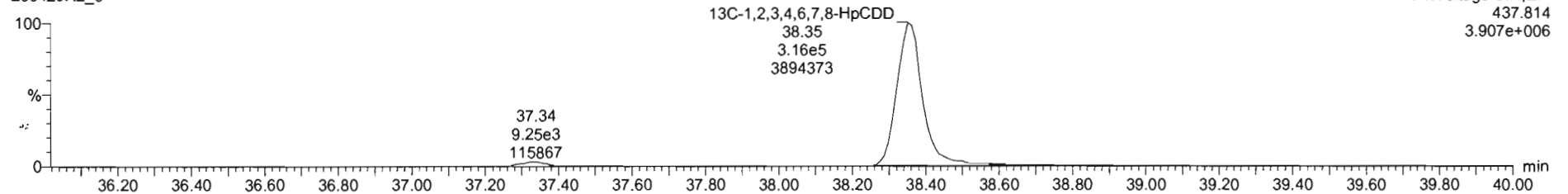


**13C-1,2,3,4,6,7,8-HpCDD**

200429R2\_3



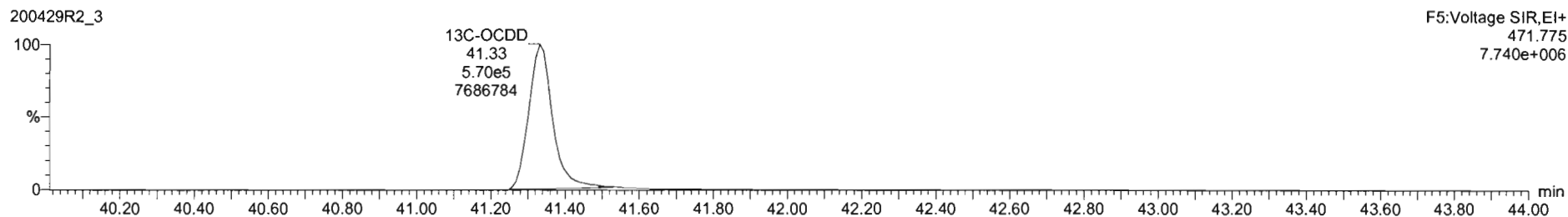
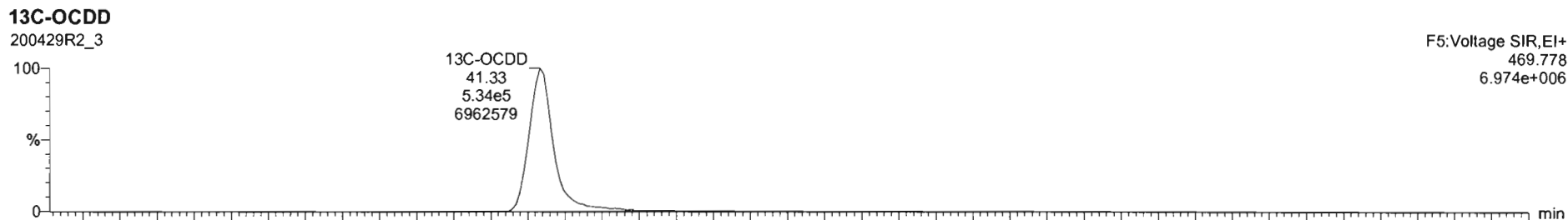
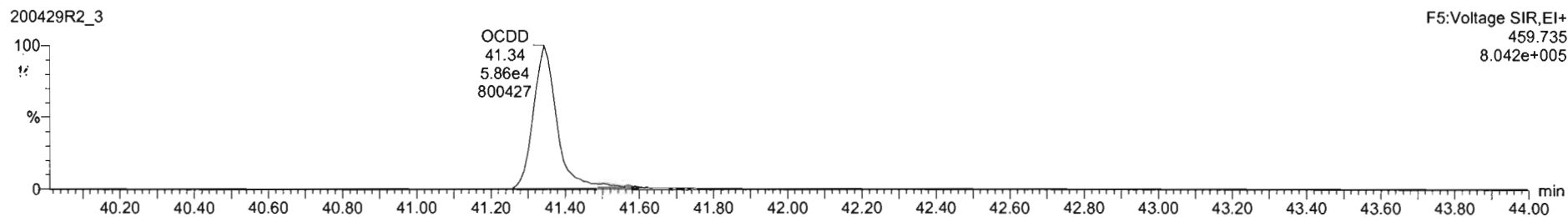
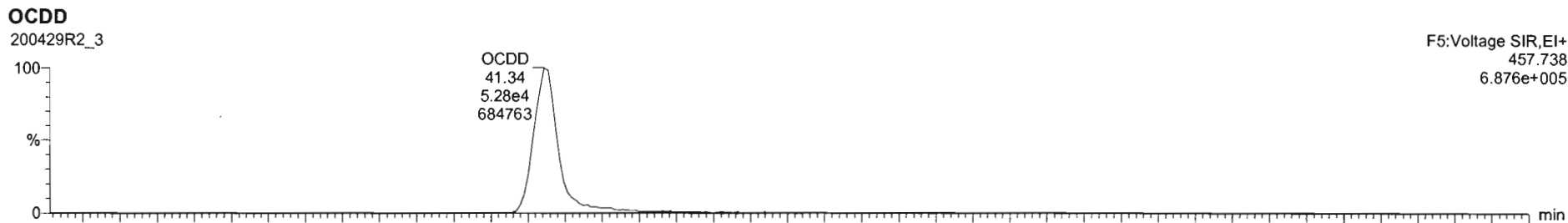
200429R2\_3



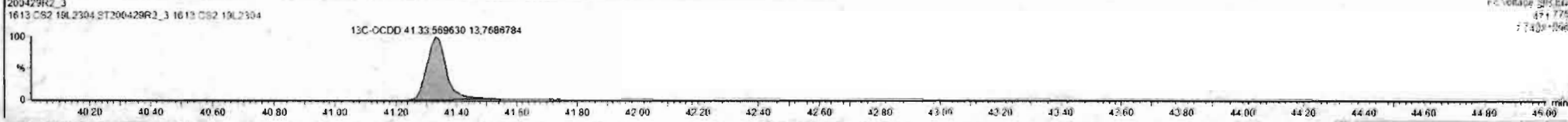
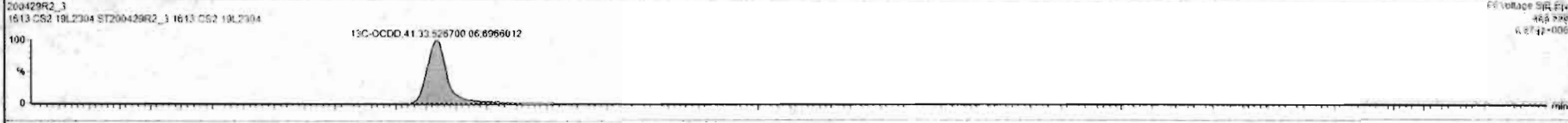
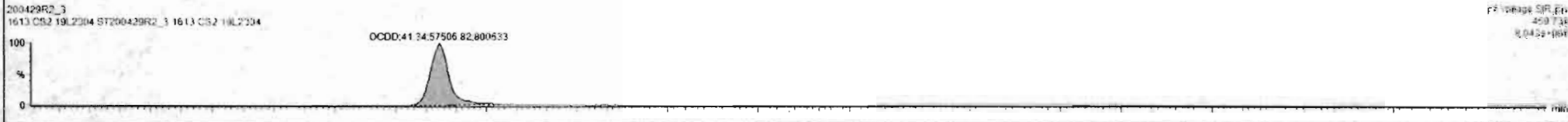
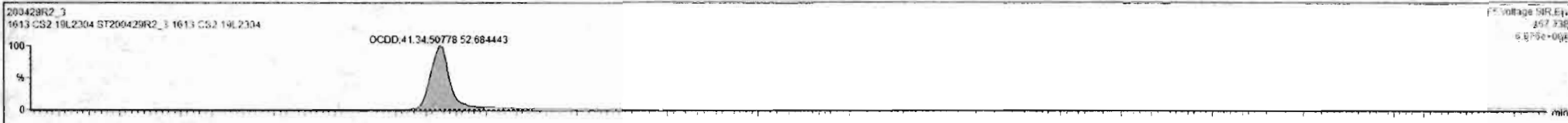
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304



#	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	5.3094e4	6.3852e5	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	38.90	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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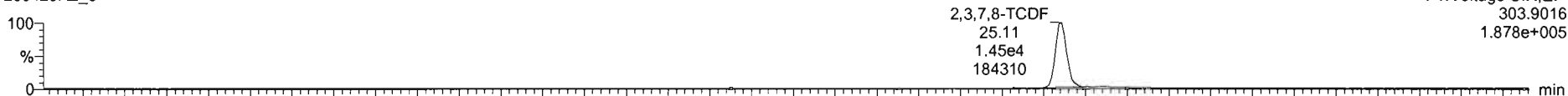
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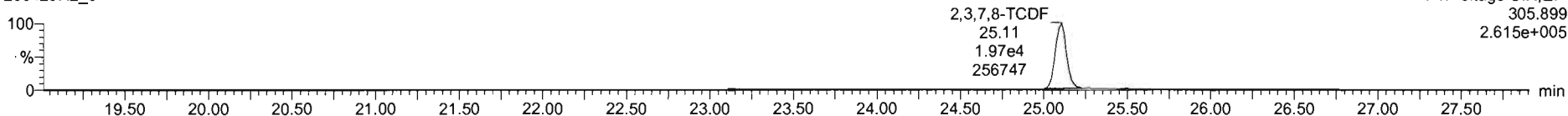
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**2,3,7,8-TCDF**

200429R2\_3

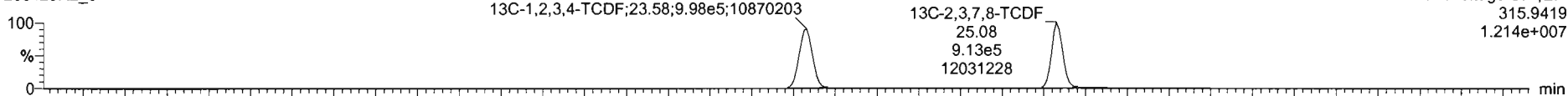


200429R2\_3

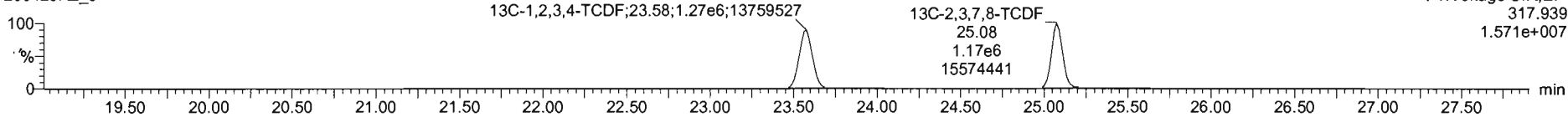


**13C-2,3,7,8-TCDF**

200429R2\_3

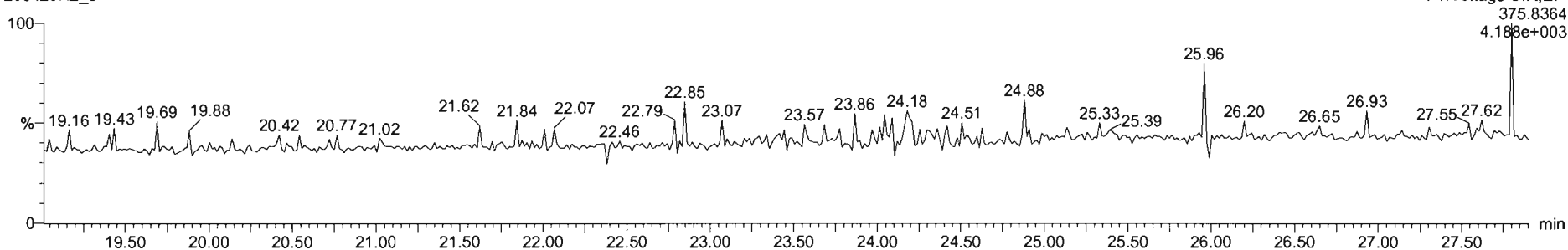


200429R2\_3



**DPE1**

200429R2\_3



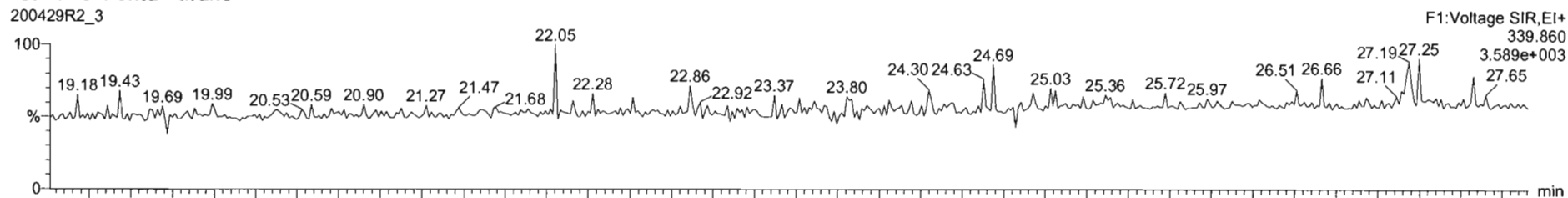
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

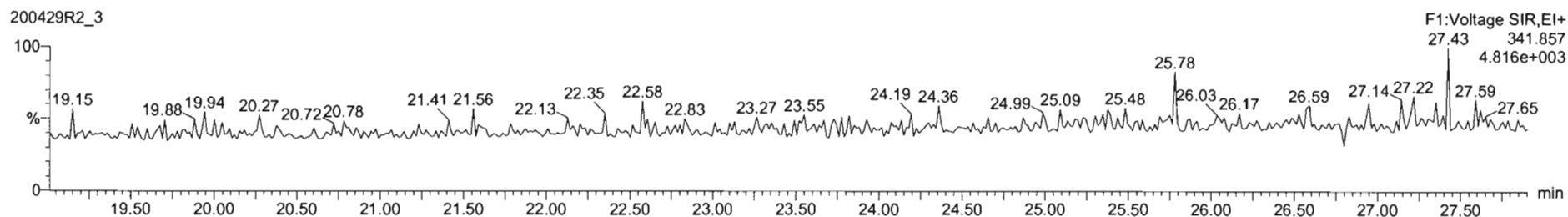
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200429R2\_3

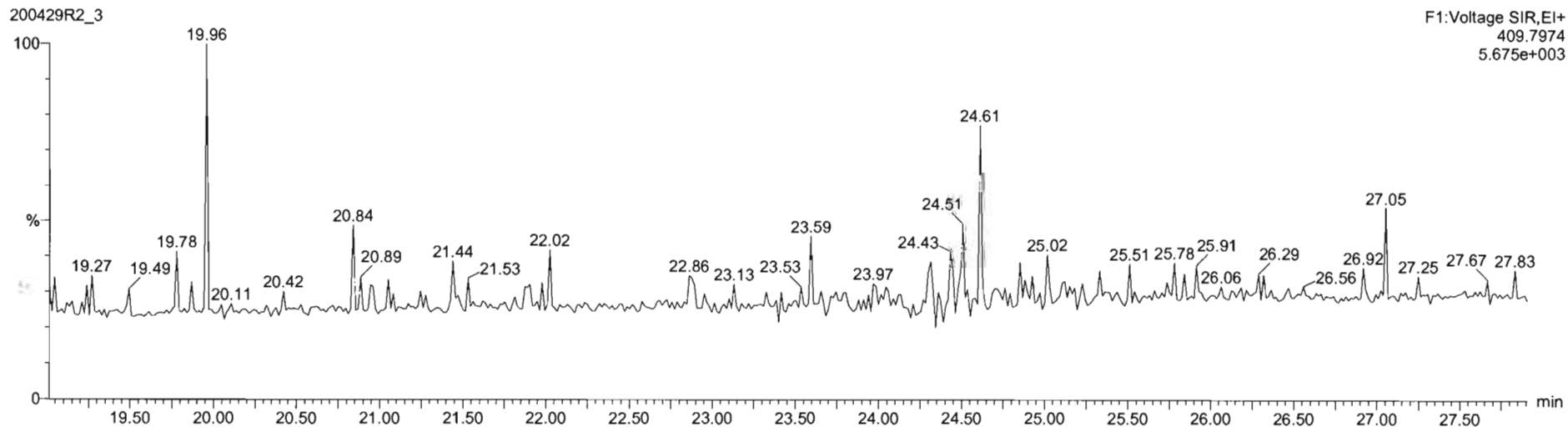


200429R2\_3



DPE6

200429R2\_3



Dataset: Untitled

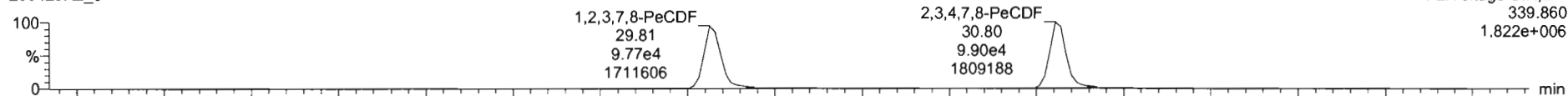
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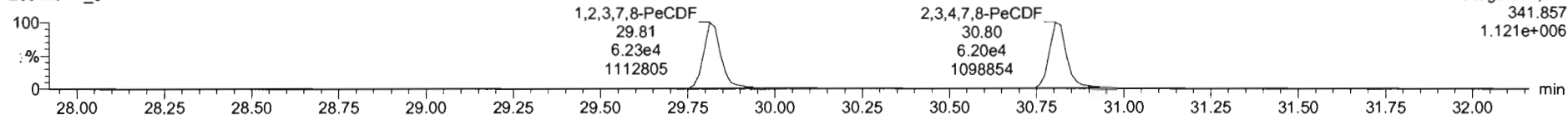
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**1,2,3,7,8-PeCDF**

200429R2\_3

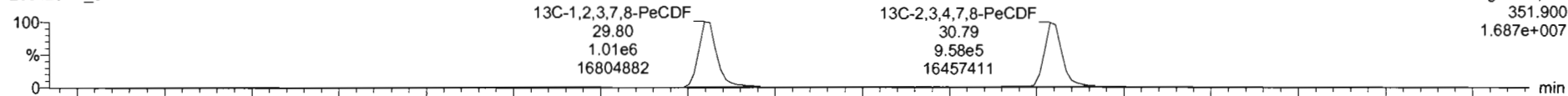


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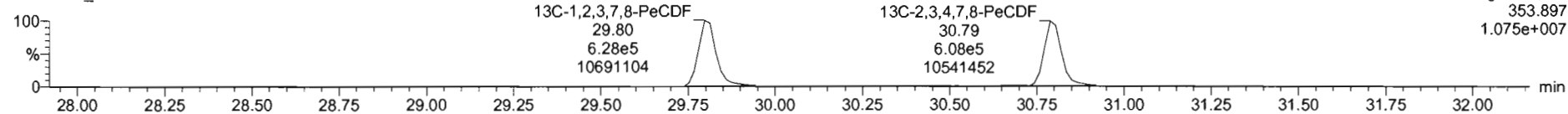


**13C-1,2,3,7,8-PeCDF**

200429R2\_3

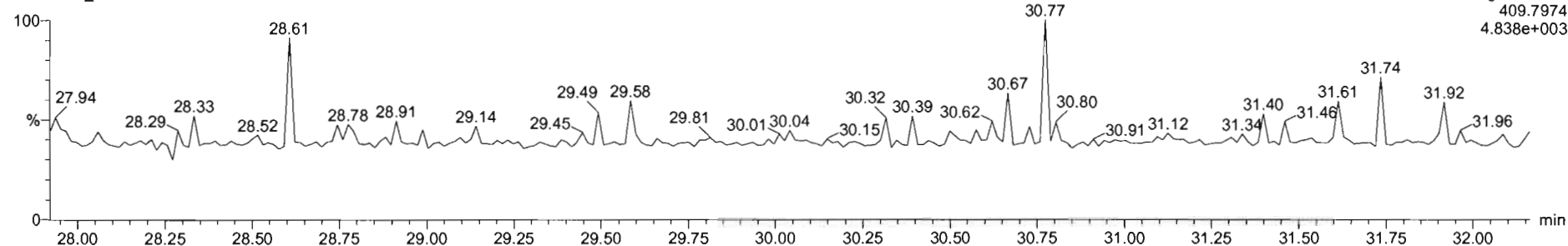


200429R2\_3



**DPE2**

200429R2\_3



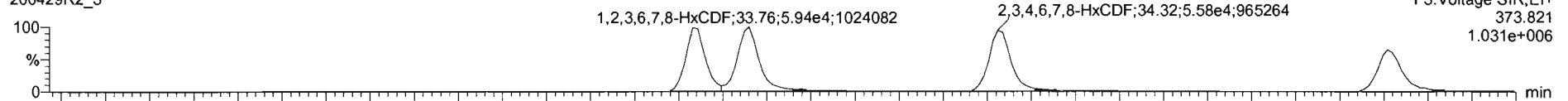
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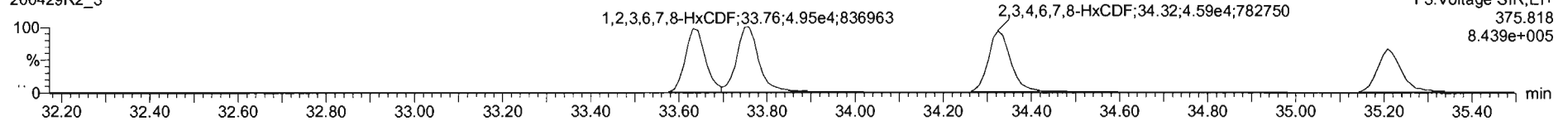
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**1,2,3,4,7,8-HxCDF**

200429R2\_3

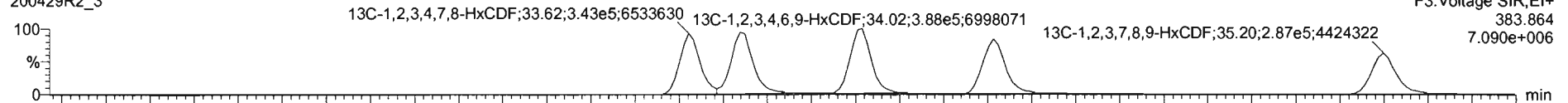


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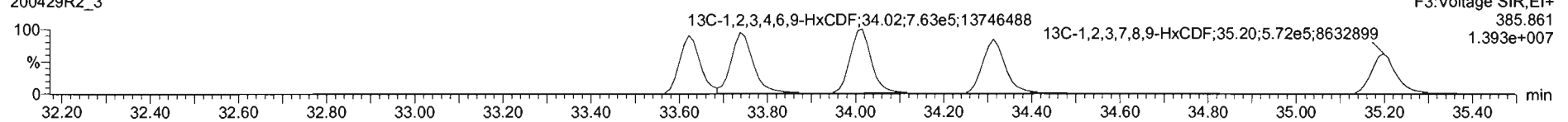


**13C-1,2,3,4,7,8-HxCDF**

200429R2\_3

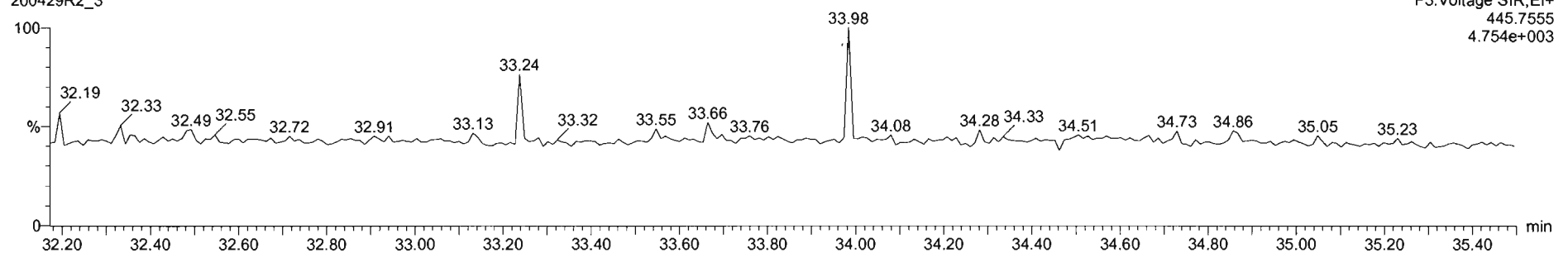


200429R2\_3



**DPE3**

200429R2\_3





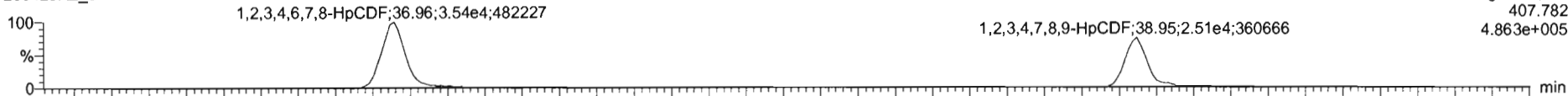
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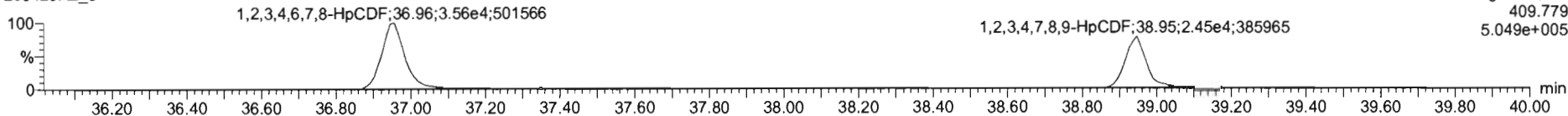
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**1,2,3,4,6,7,8-HpCDF**

200429R2\_3

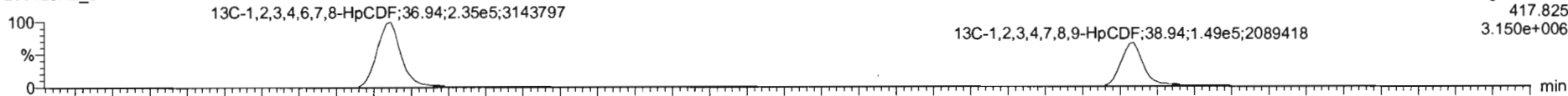


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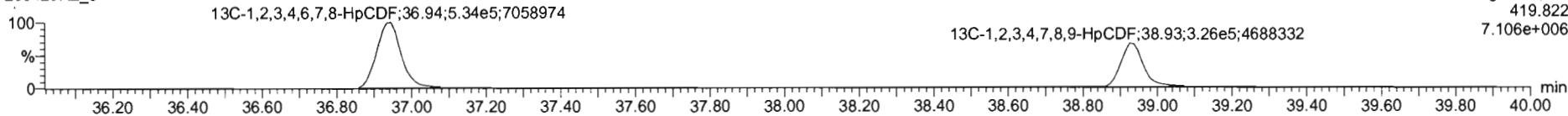


**13C-1,2,3,4,6,7,8-HpCDF**

200429R2\_3

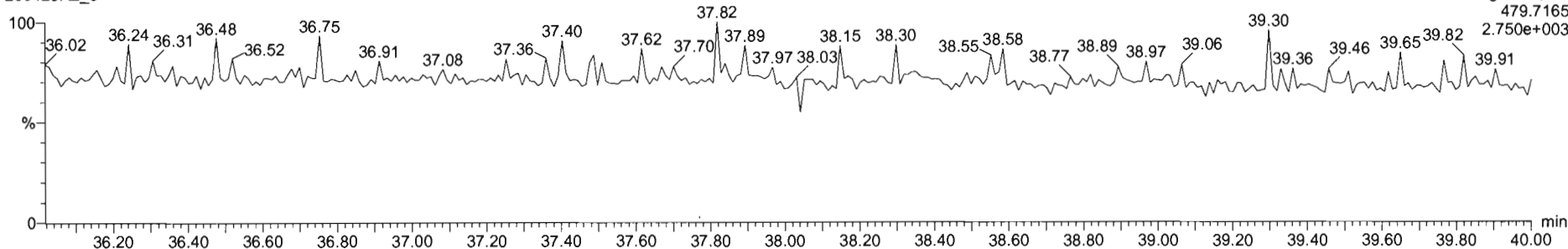


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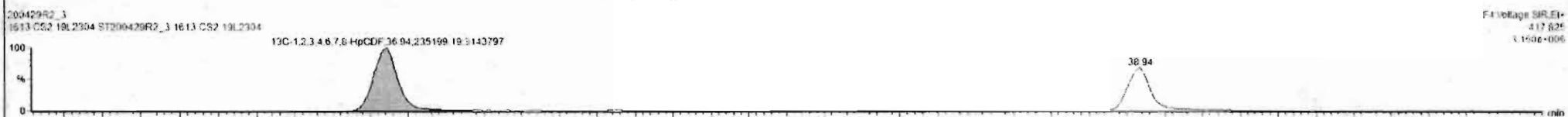
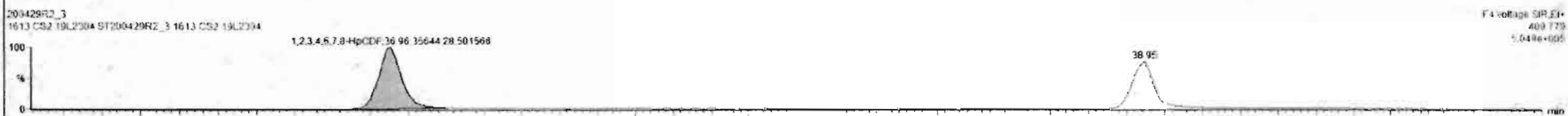
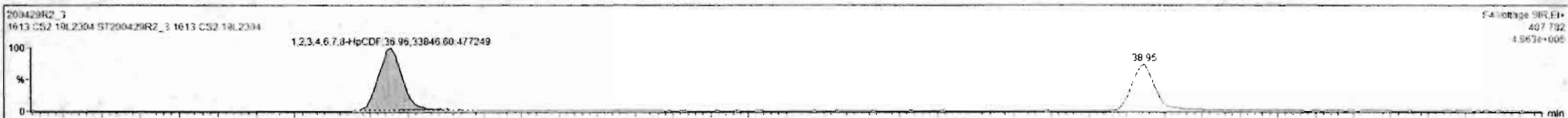


**DPE4**

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	1.527	NO	1.5997e5	1.8425e6	10.000	7.0	5.86	0.910	0.0533
10	10	1,2,3,4,7,8-PeCDF	30.80	1.595	NO	1.6103e5	1.5556e6	10.000	6.4	4.98	0.666	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	38.96	0.850	NO	6.9491e4	7.6914e5	10.000	3.7	7.54	0.871	0.0652
16	16	1,2,3,4,7,8,9-HpCDF	38.95	1.014	NO	4.3417e4	4.7188e5	10.000	3.5	6.62	1.01	0.0670
17	17	OCDF	41.52	0.877	NO	1.0707e5	1.2711e6	20.000	5.0	7.16	0.602	0.0575

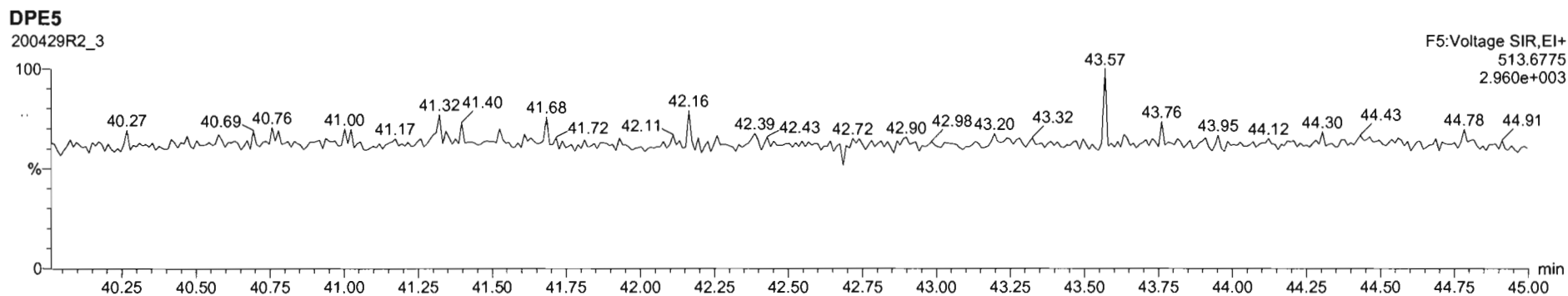
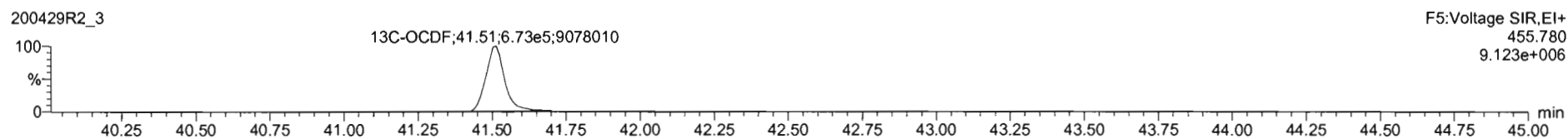
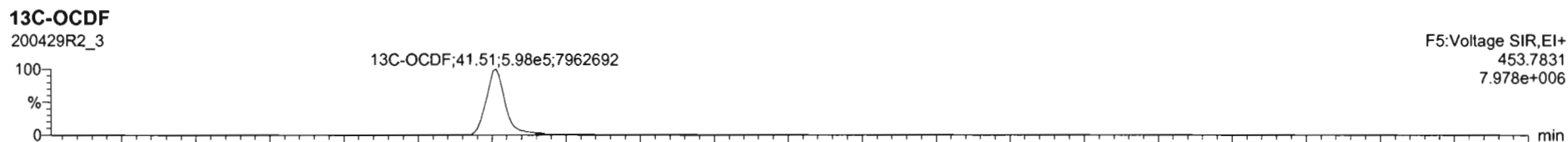
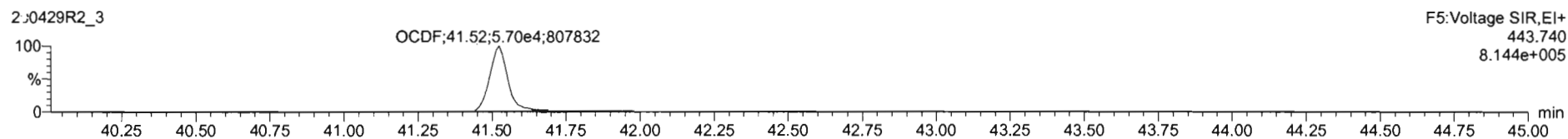
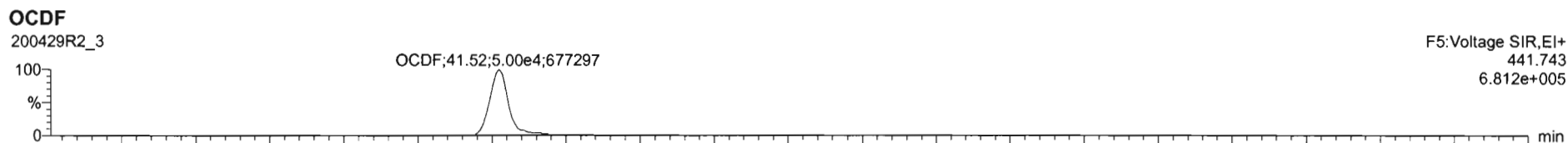


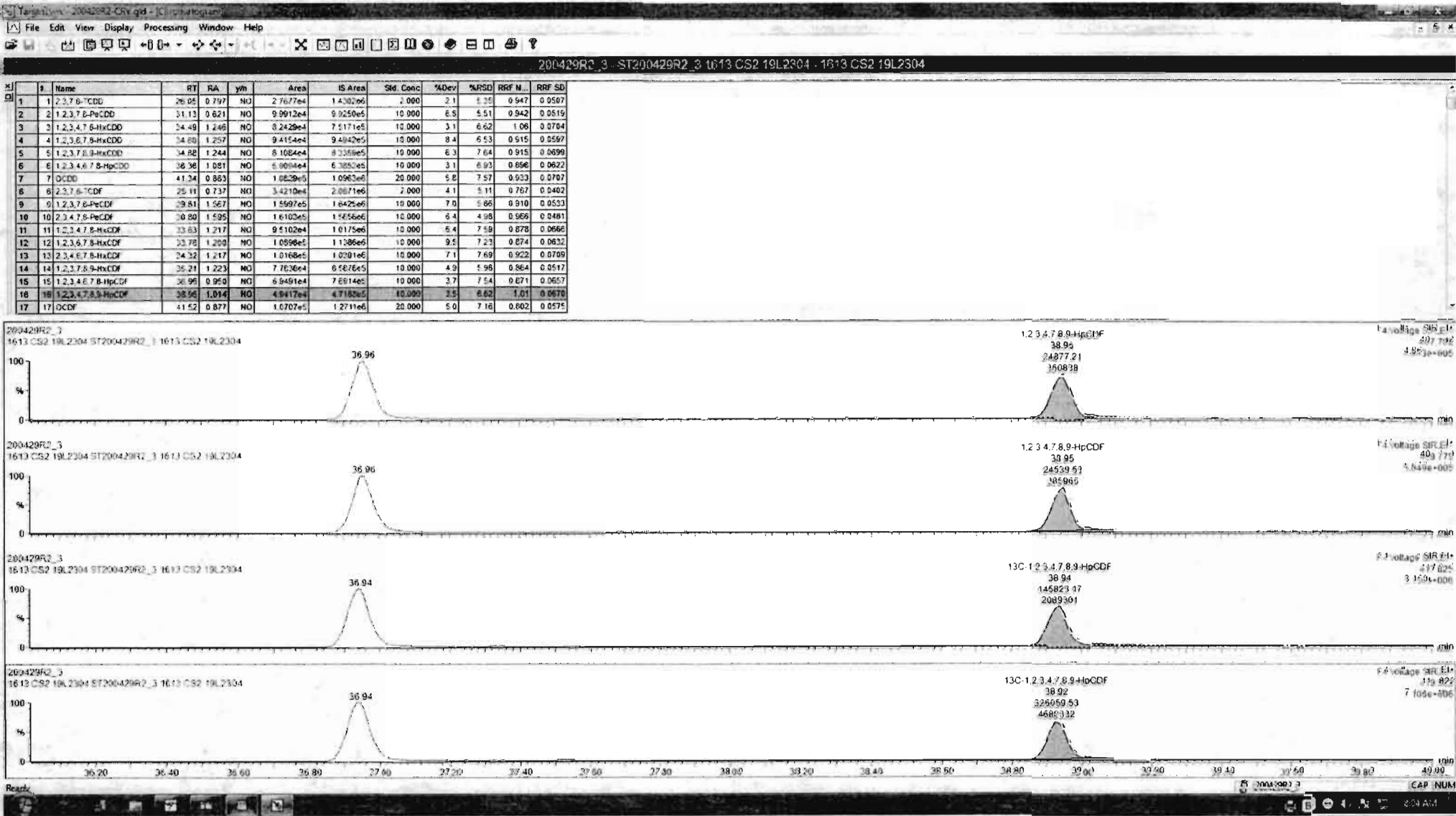
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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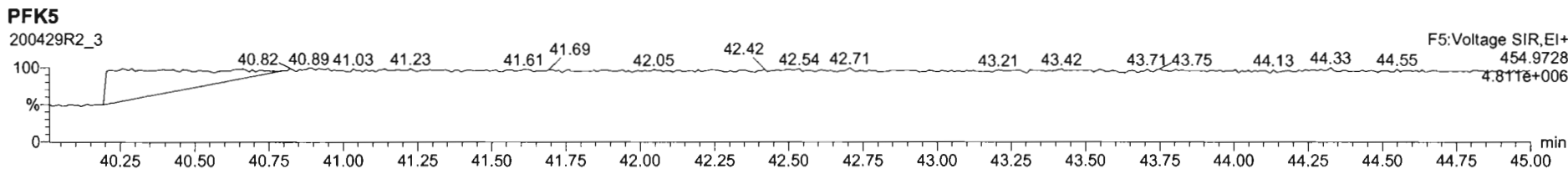
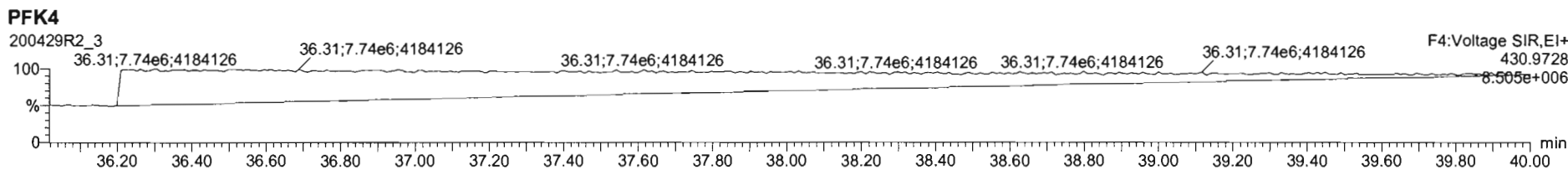
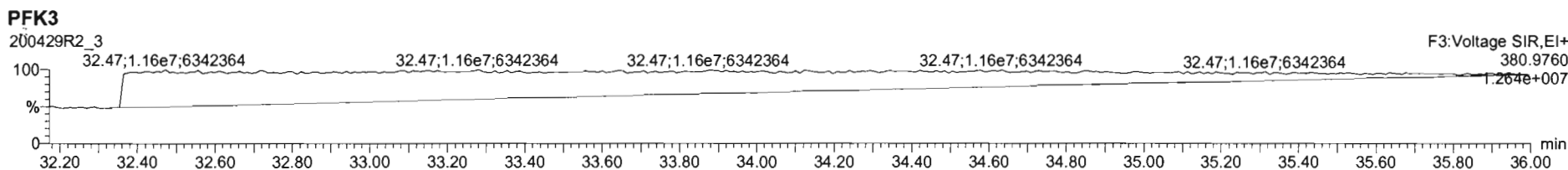
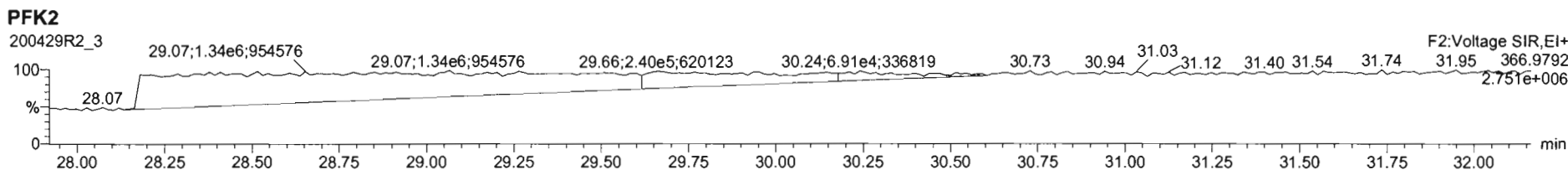
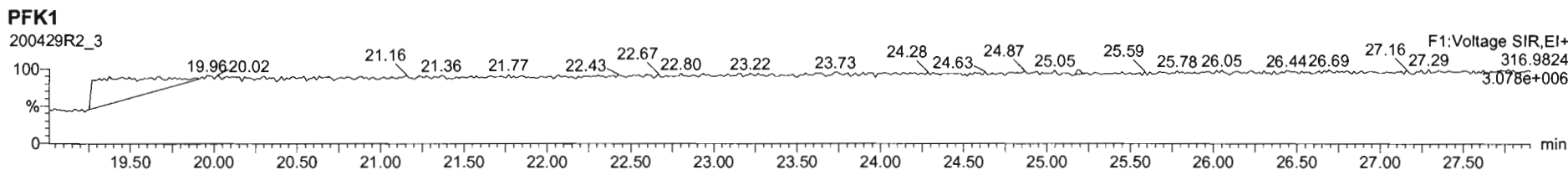




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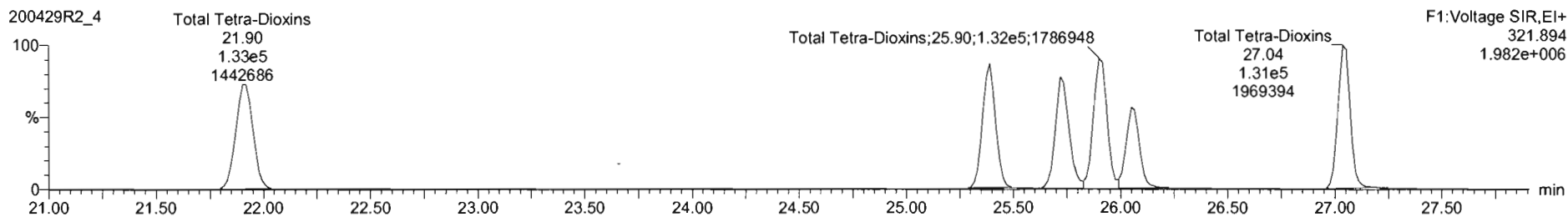
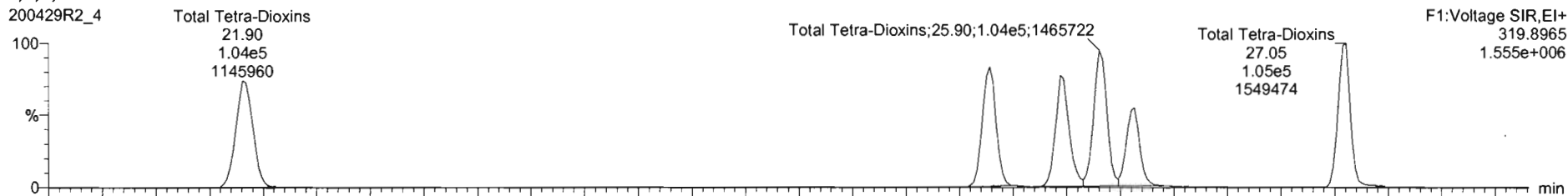


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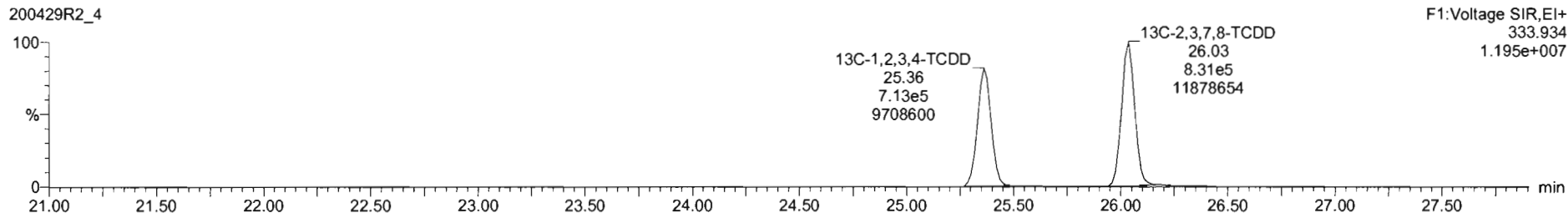
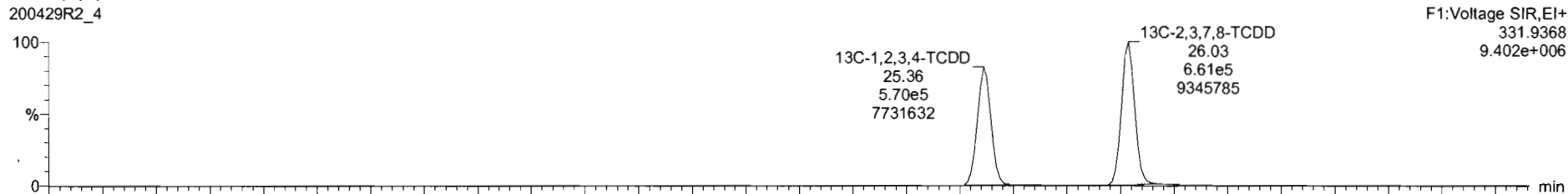
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**2,3,7,8-TCDD**



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



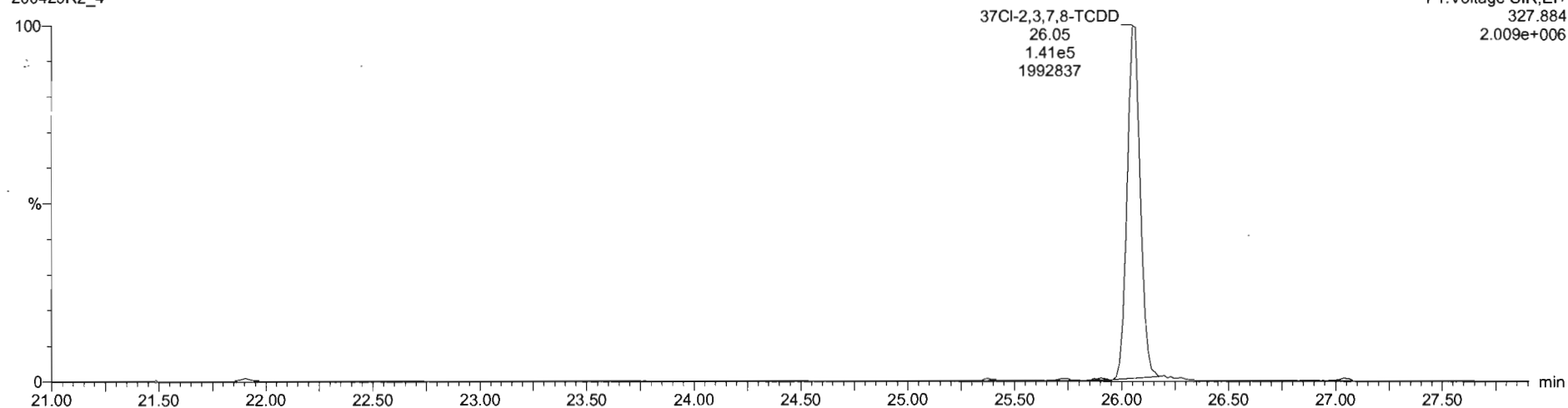
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2\_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

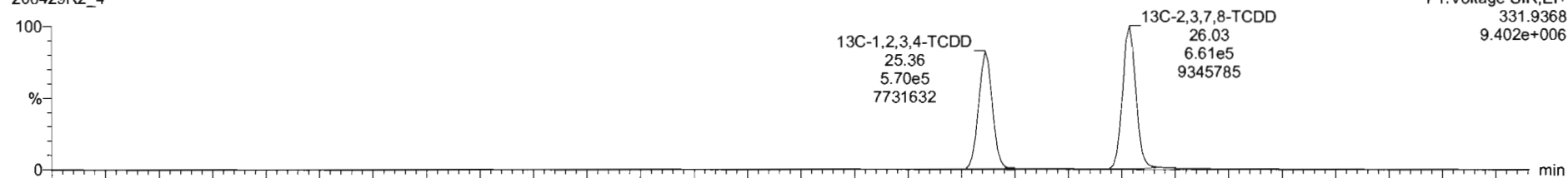
**37Cl-2,3,7,8-TCDD**

200429R2\_4

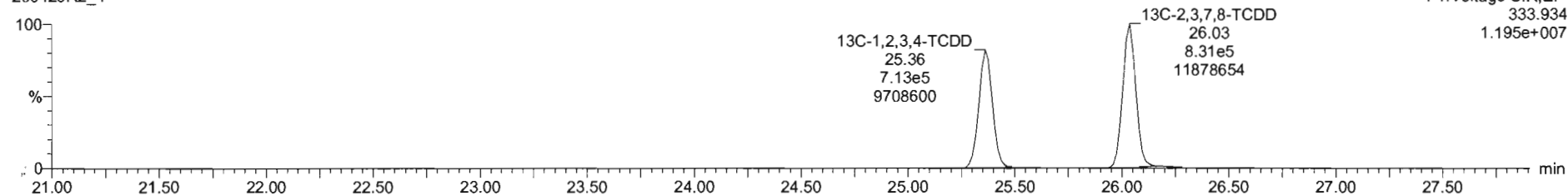


**13C-1,2,3,4-TCDD**

200429R2\_4



200429R2\_4



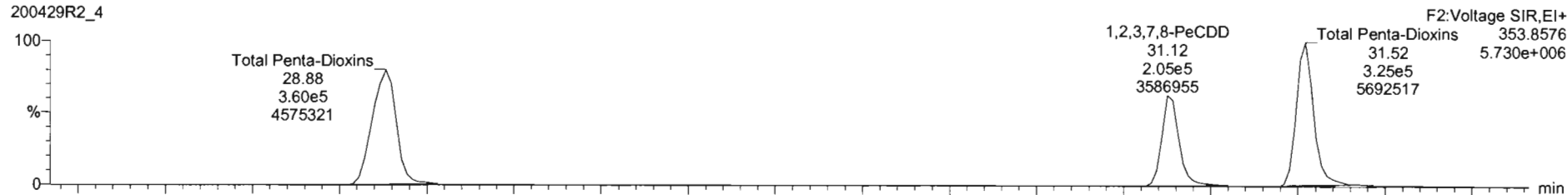
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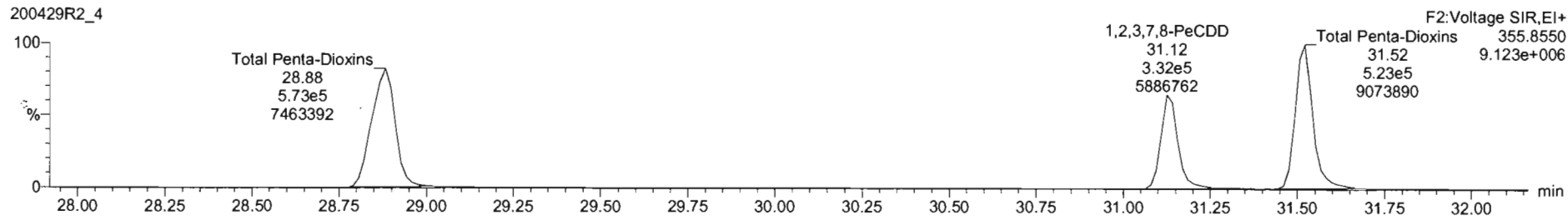
Name: 200429R2\_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2\_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

**1,2,3,7,8-PeCDD**

200429R2\_4

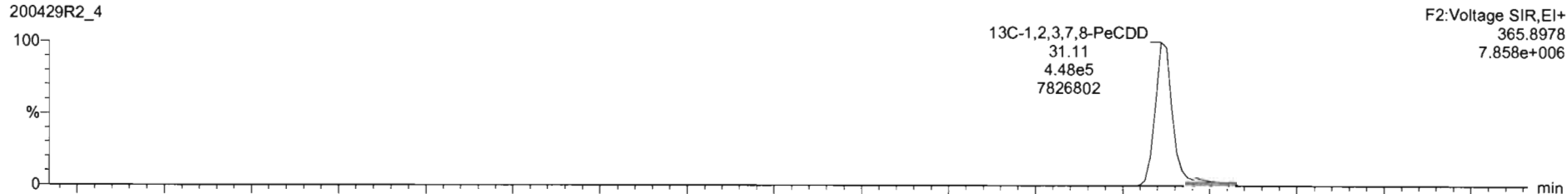


200429R2\_4

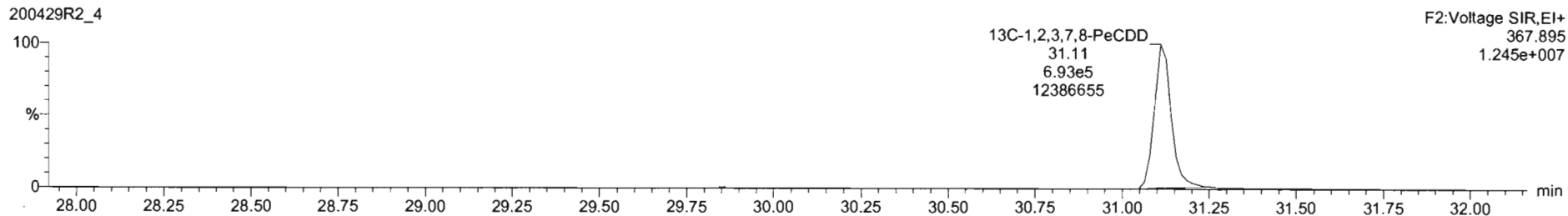


**13C-1,2,3,7,8-PeCDD**

200429R2\_4



200429R2\_4





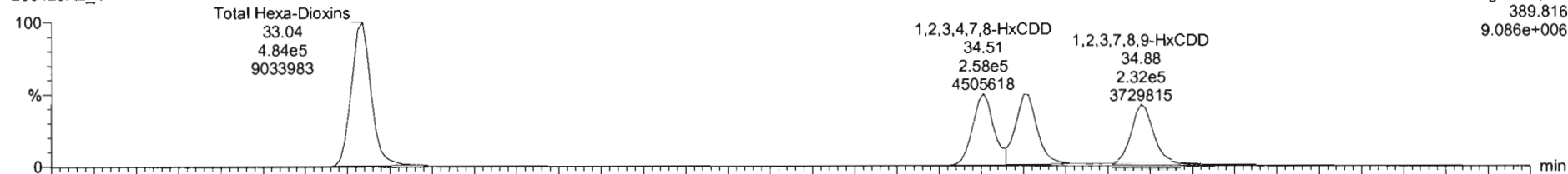
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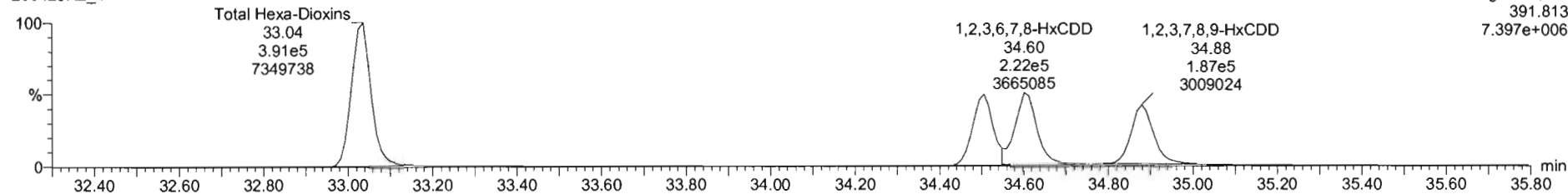
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**1,2,3,4,7,8-HxCDD**

200429R2\_4

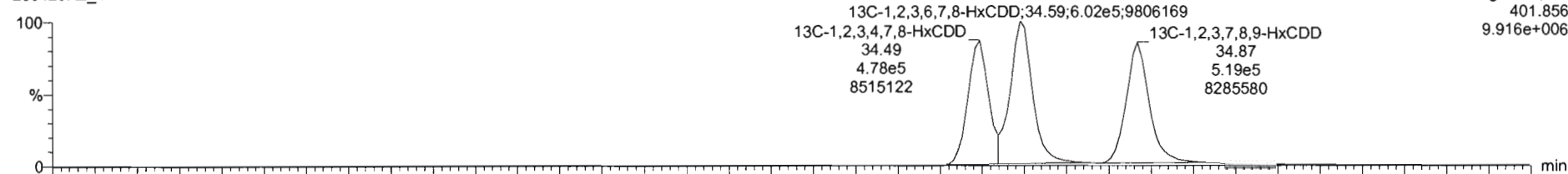


200429R2\_4

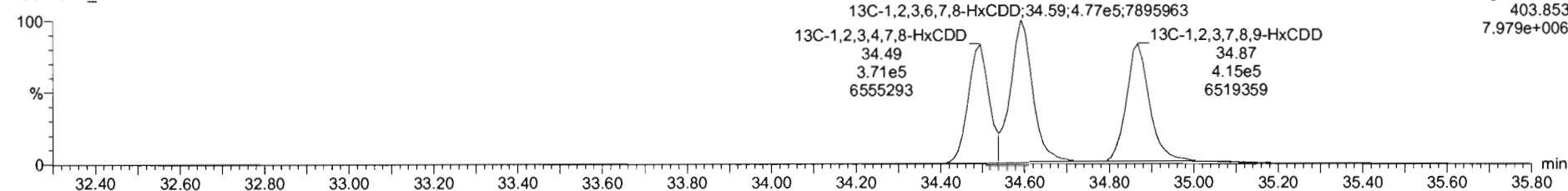


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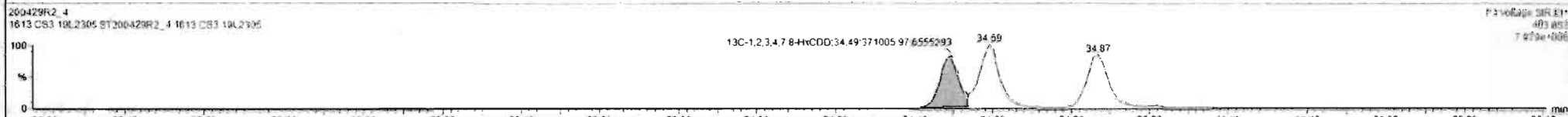
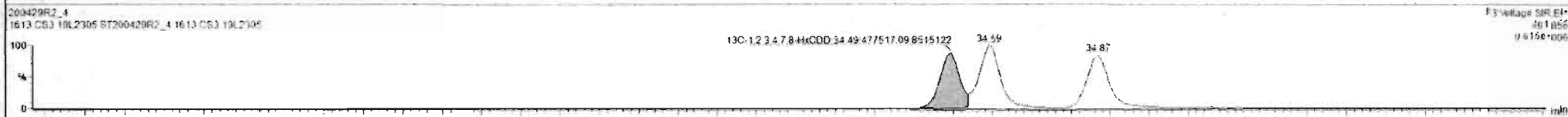
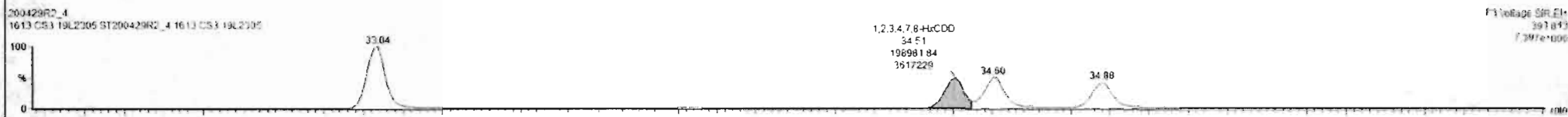
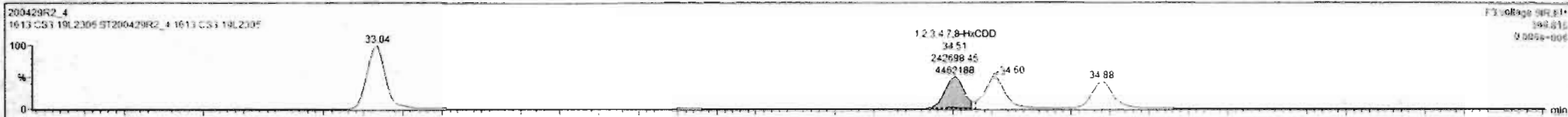
200429R2\_4



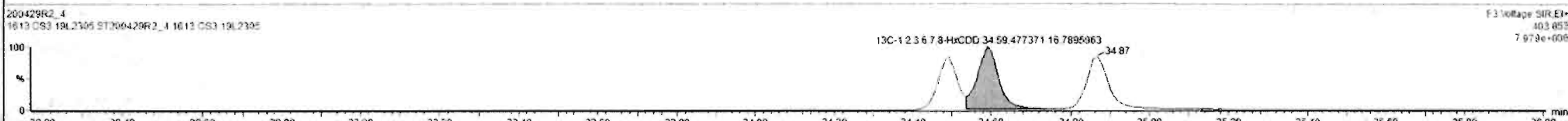
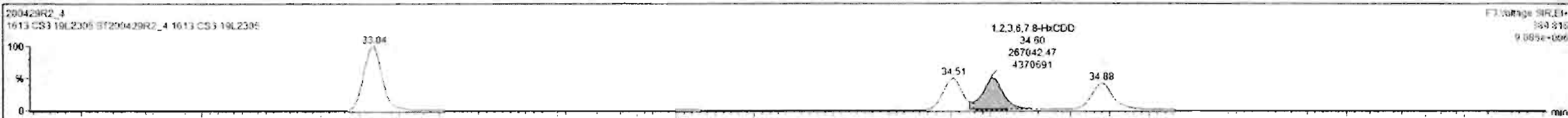
200429R2\_4



#	S	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1	1,2,3,7,8-TCDD	26.07	0.761	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	3.4585e5	1.6862e6	50.000	0.0	5.86	0.910	0.0533
10	10	1,2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.96	0.666	0.0481
11	11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0668
12	12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5766e5	1.2611e6	50.000	1.2	7.23	0.874	0.0633
13	13	2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1399e6	50.000	3.2	7.68	0.902	0.0765
14	14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.98	0.864	0.0517
15	15	1,2,3,4,6,7,8-HpCDF	36.97	0.952	NO	3.7224e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0653
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	0.0567
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	3.4852e5	50.000	-2.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8027e5	1.0736e6	50.000	-0.9	6.53	0.915	0.0567
5	1,2,3,7,8,9-HxCDD	34.98	1.239	NO	4.1946e5	9.2381e5	50.000	-1.5	7.64	0.915	0.0659
6	1,2,3,4,6,7,8-HpCDD	38.36	0.908	NO	3.0769e5	6.7896e5	50.000	1.0	6.93	0.856	0.0622
7	OCDD	41.25	0.879	NO	5.6237e5	1.1777e6	100.000	2.3	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1451e6	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	3.4585e5	1.6620e6	50.000	0.0	5.86	0.910	0.0533
10	1,2,3,4,7,8-HxCDF	30.80	1.559	NO	8.7458e5	1.9179e6	50.000	-0.4	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0668
12	1,2,3,6,7,8-HxCDF	33.75	1.173	NO	5.5786e5	1.2611e6	50.000	1.2	7.23	0.674	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.33	1.170	NO	5.4197e5	1.1399e6	50.000	3.2	7.69	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2624e5	50.000	0.2	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7224e5	6.6485e5	50.000	-1.2	7.54	0.871	0.0667
16	1,2,3,4,7,8,9-HpCDF	38.96	0.998	NO	2.5973e5	5.1163e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.3639e5	1.3198e6	100.000	1.3	7.16	0.602	0.0575



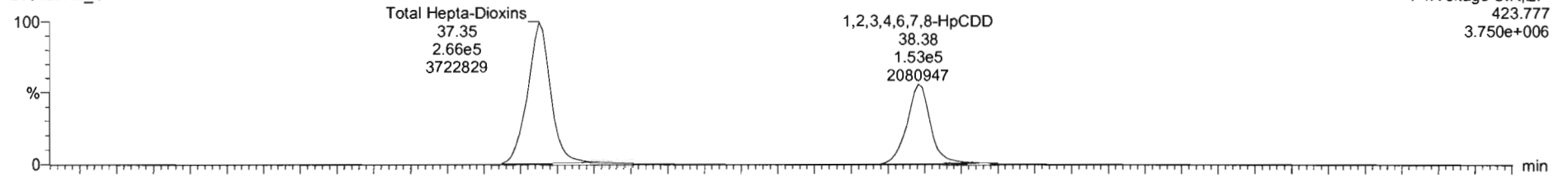
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time  
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2\_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

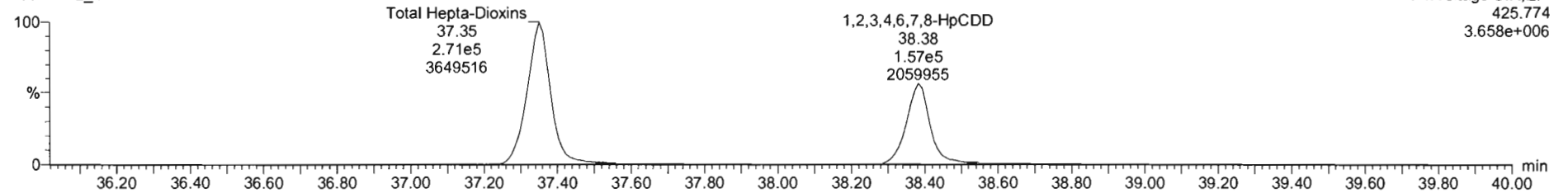
1,2,3,4,6,7,8-HpCDD

200429R2\_4



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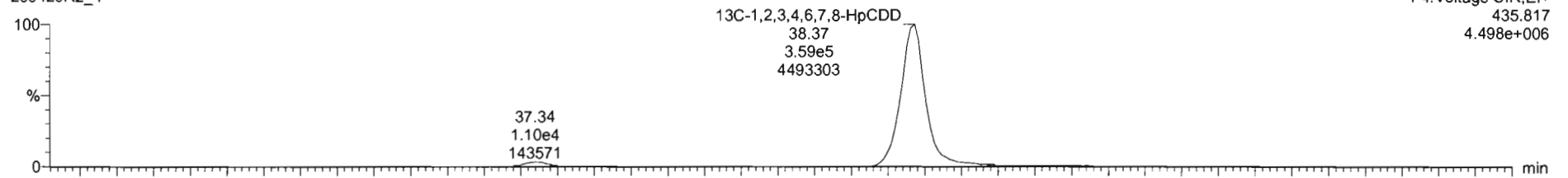
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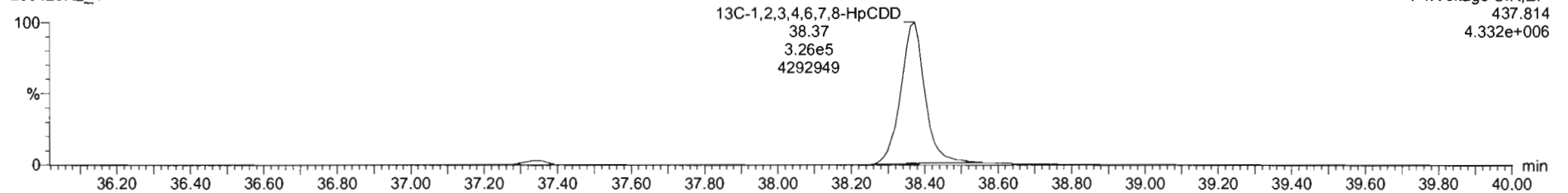
13C-1,2,3,4,6,7,8-HpCDD

200429R2\_4



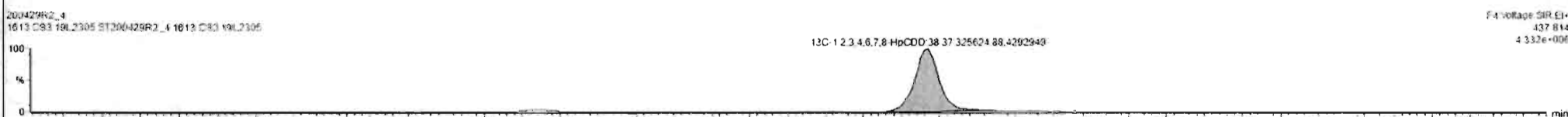
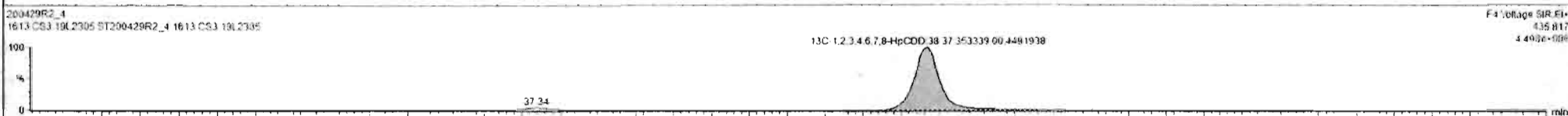
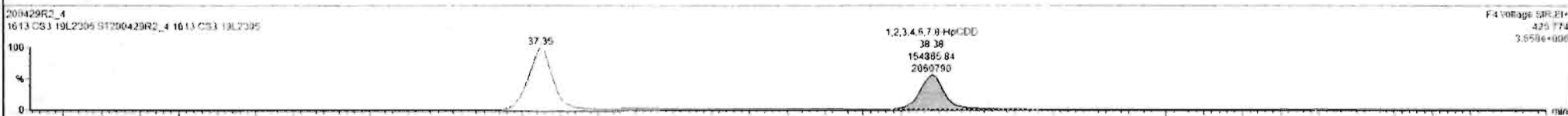
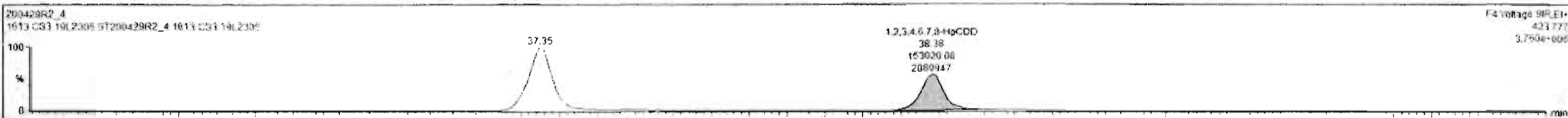
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200429R2\_4



F4: Voltage SIR, EI+  
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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	6.7096e5	50.000	1.0	6.93	0.898	0.0622
7	OCDD	41.35	0.879	NO	5.6337e5	1.1777e6	100.000	2.5	7.57	0.923	0.0707
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4585e5	1.8662e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	29.00	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	23.84	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	23.76	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	25.22	1.169	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	0.0670
17	OCDF	41.53	0.862	NO	5.3639e5	1.3196e6	100.000	1.3	7.16	0.802	0.0575



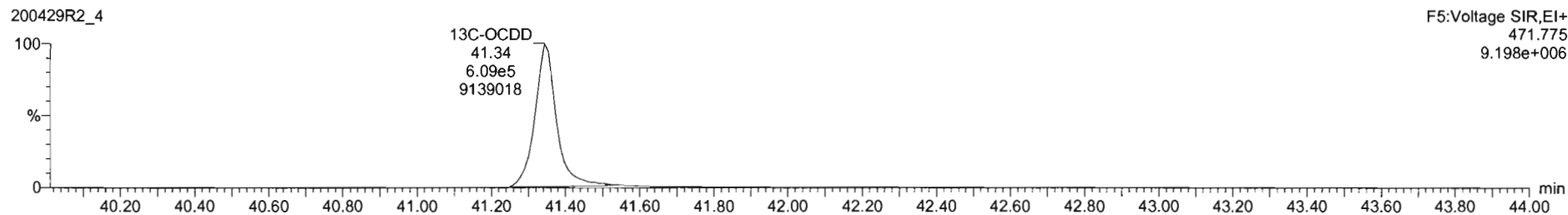
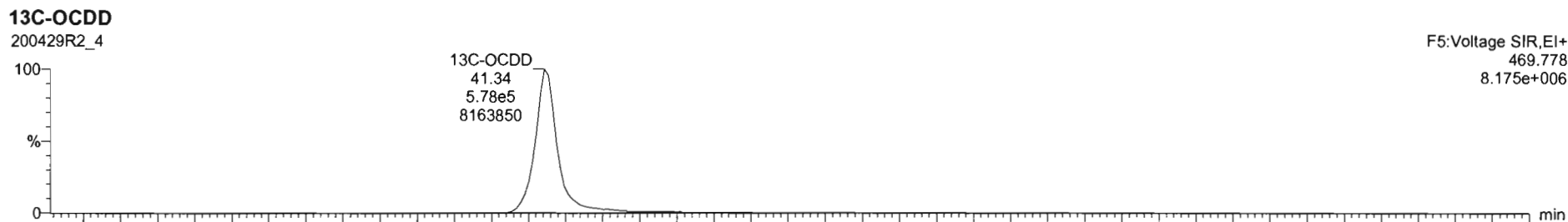
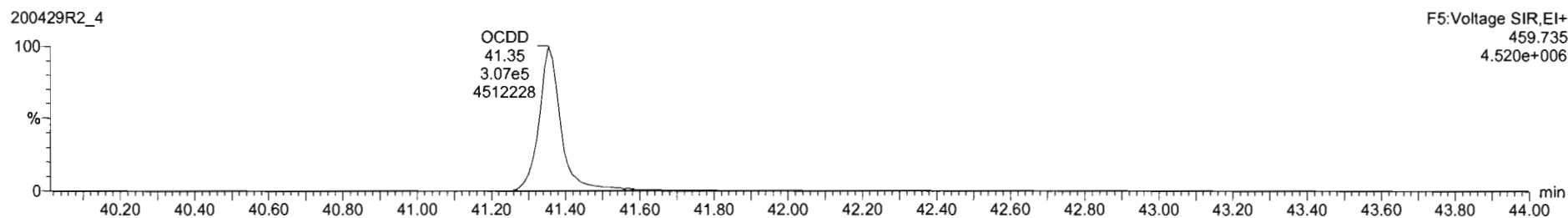
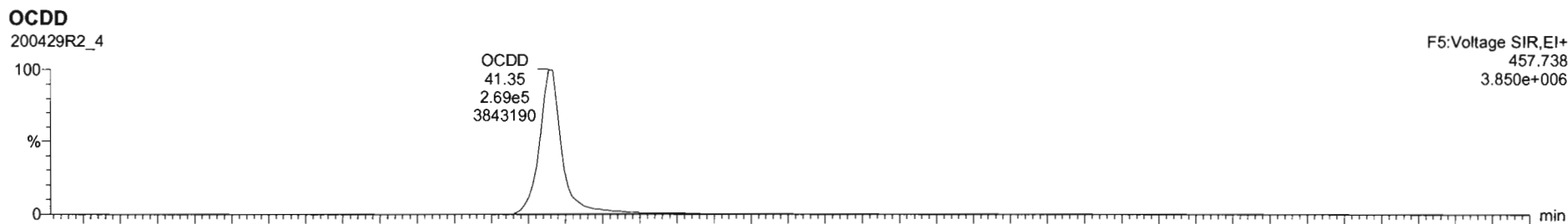
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Dataset: Untitled

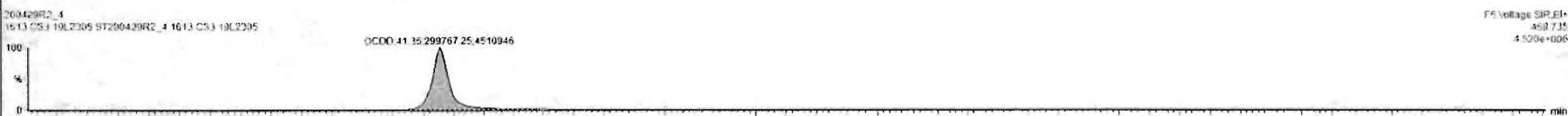
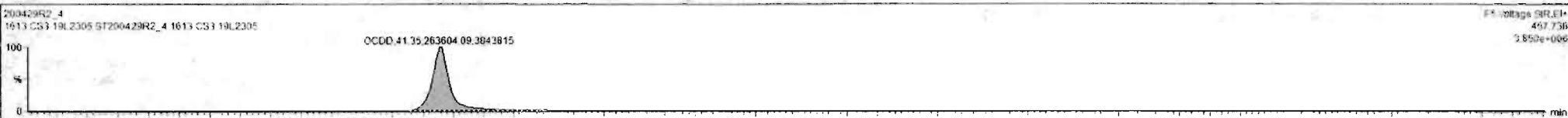
Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time

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	1,2,3,7,8-TCDD	26.07	0.751	NO	1.4250e5	1.4920e5	10.000	0.8	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4166e5	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	0.0261
8	2,2,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.757	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	3.4585e5	1.8722e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.96	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.173	NO	5.5706e5	1.2811e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1299e6	50.000	3.2	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.952	NO	3.7224e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	0.998	NO	2.5973e5	5.1183e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.3639e5	1.3196e6	100.000	1.3	7.16	0.802	0.0575



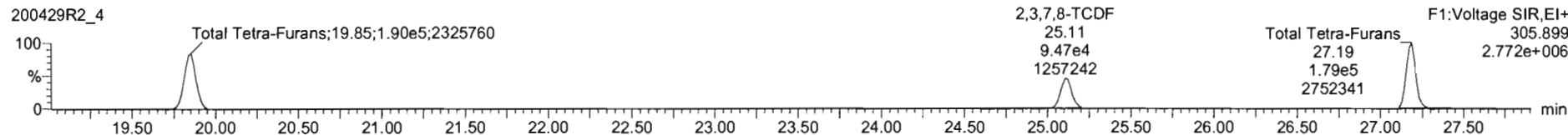
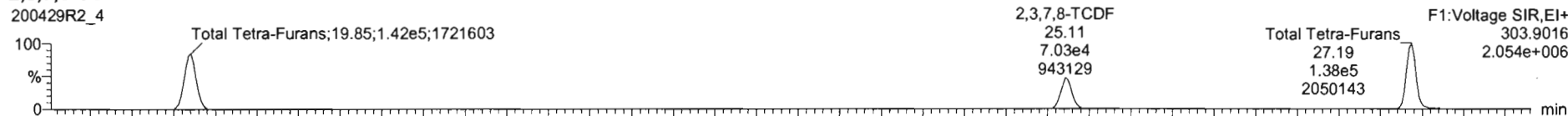
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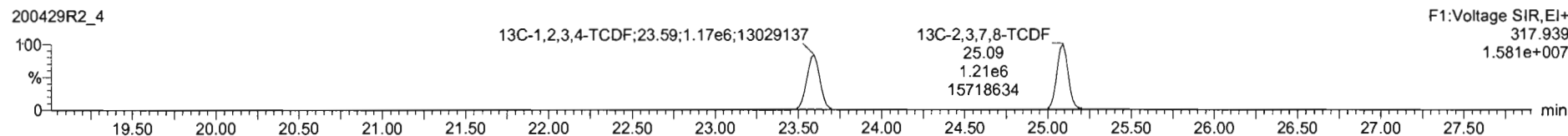
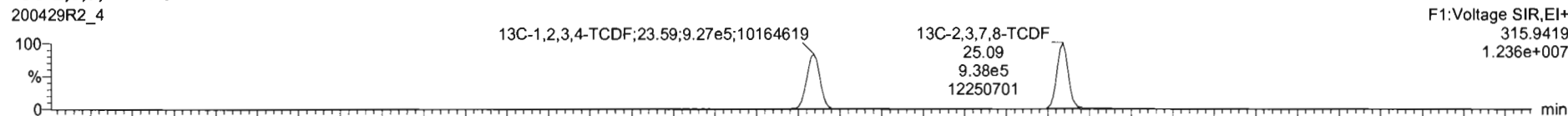
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2\_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

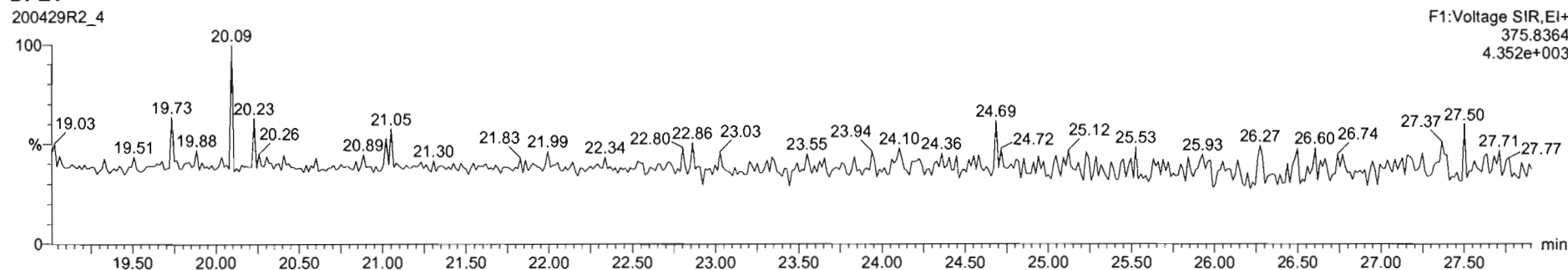
**2,3,7,8-TCDF**



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



**DPE1**





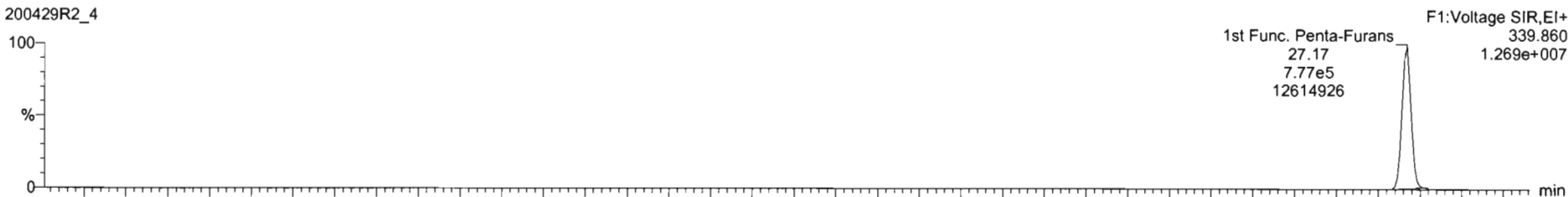
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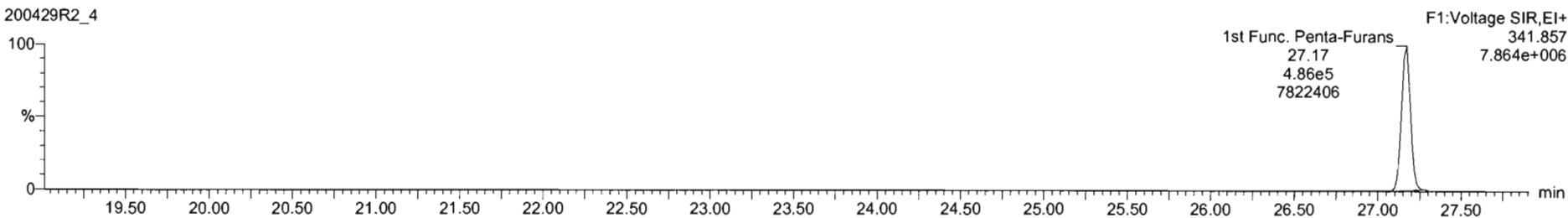
Name: 200429R2\_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2\_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200429R2\_4

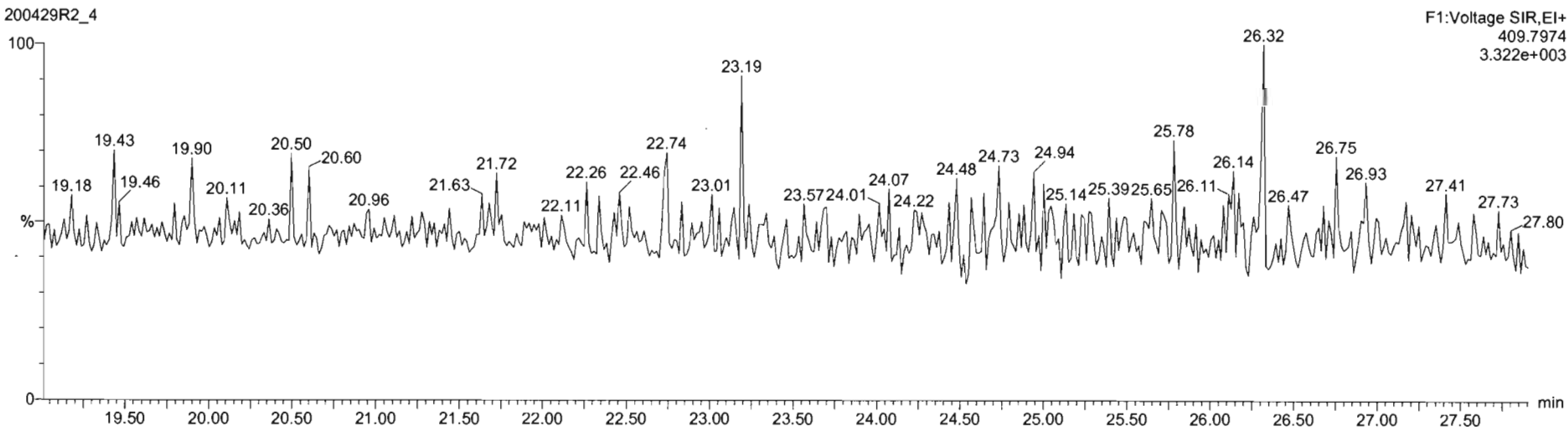


200429R2\_4



DPE6

200429R2\_4



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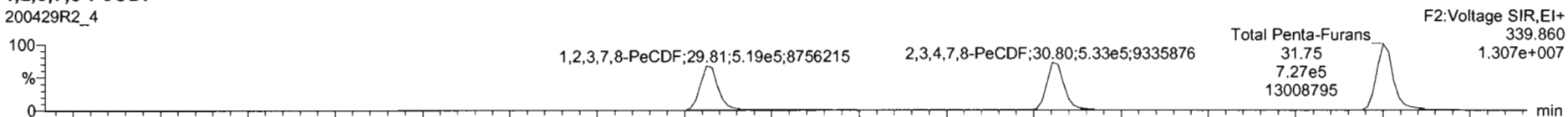
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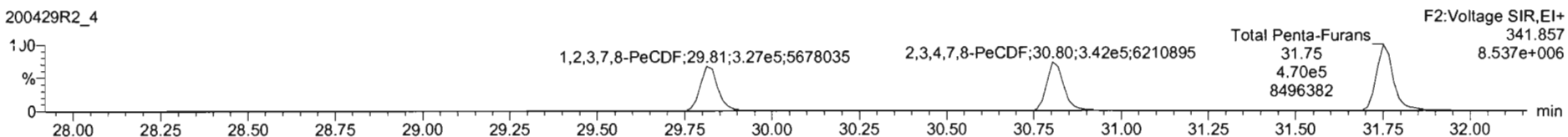
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**1,2,3,7,8-PeCDF**

200429R2\_4

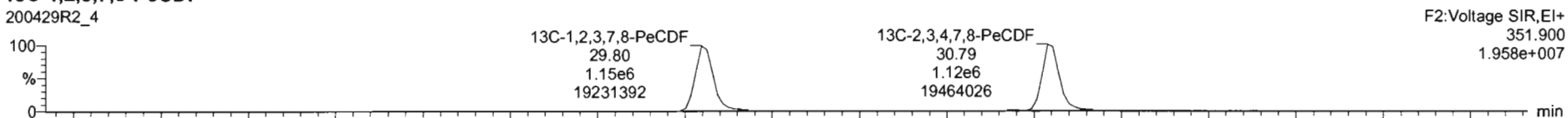


200429R2\_4

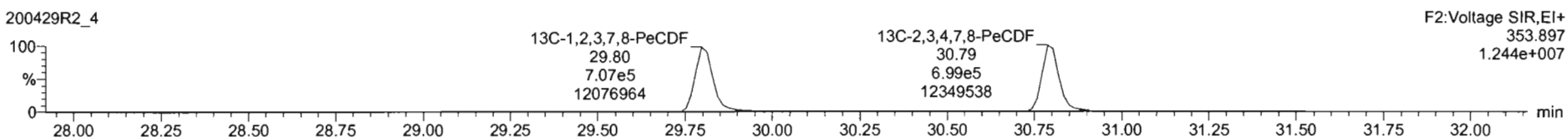


**13C-1,2,3,7,8-PeCDF**

200429R2\_4

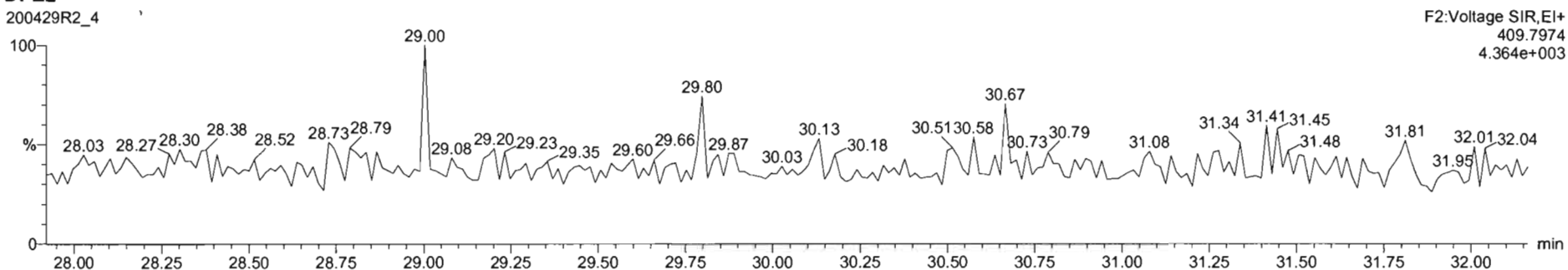


200429R2\_4



**DPE2**

200429R2\_4

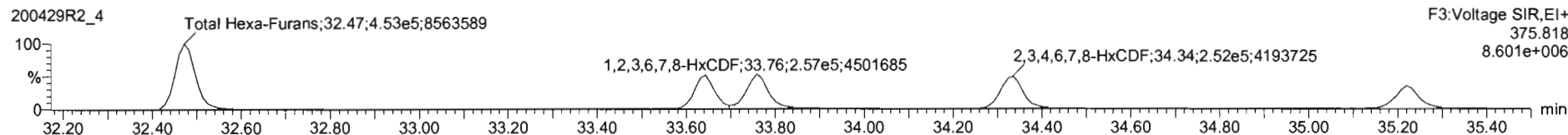
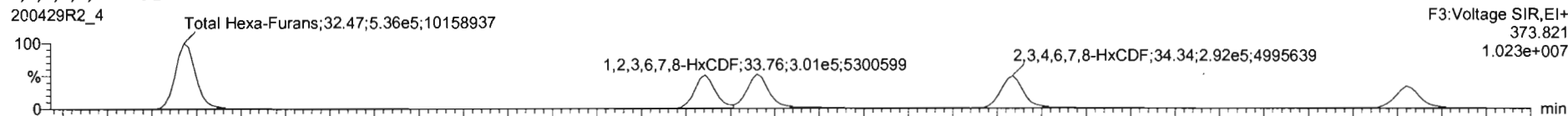


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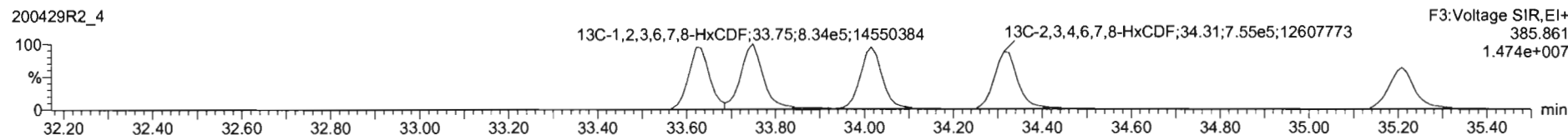
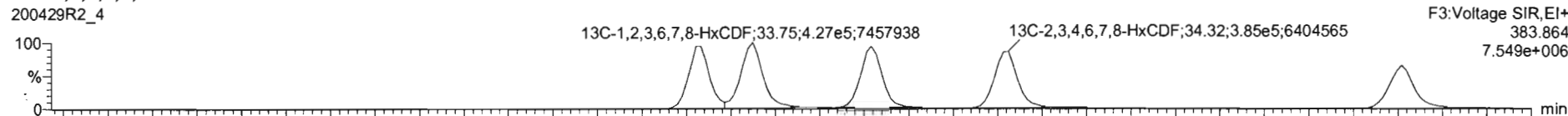
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Name: 200429R2\_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2\_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

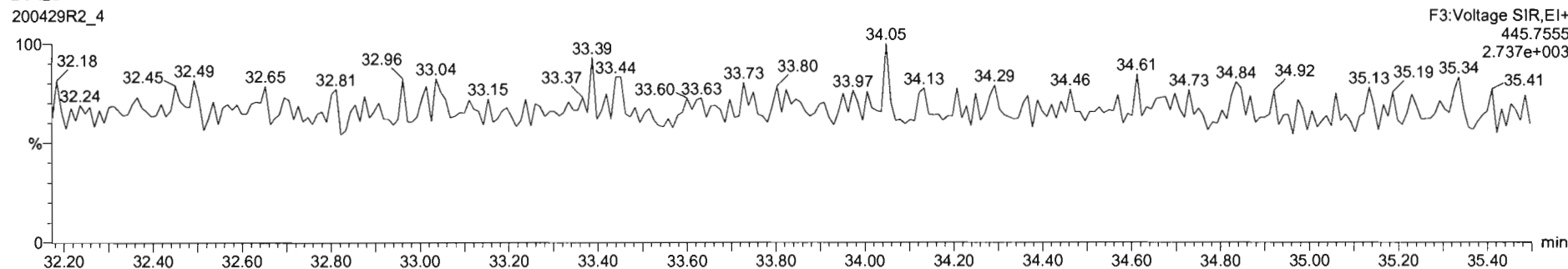
**1,2,3,4,7,8-HxCDF**



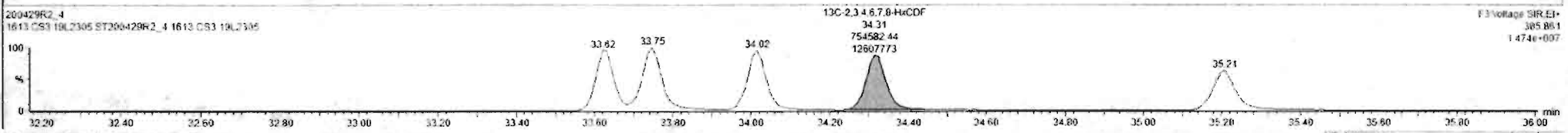
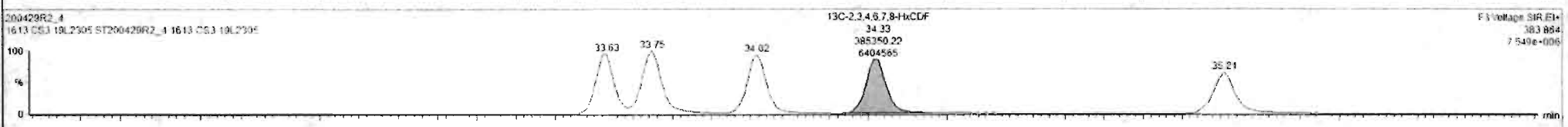
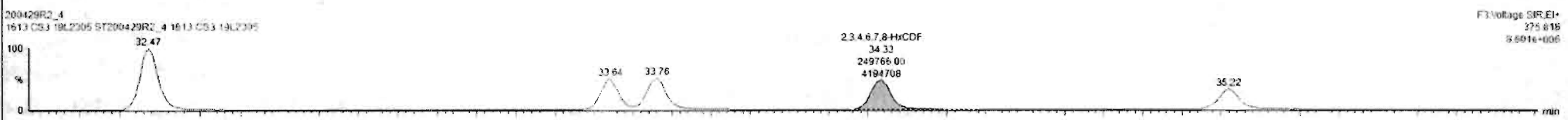
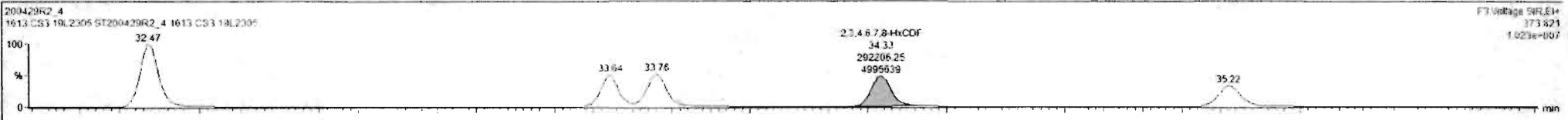
**13C-1,2,3,4,7,8-HxCDF**



**DPE3**

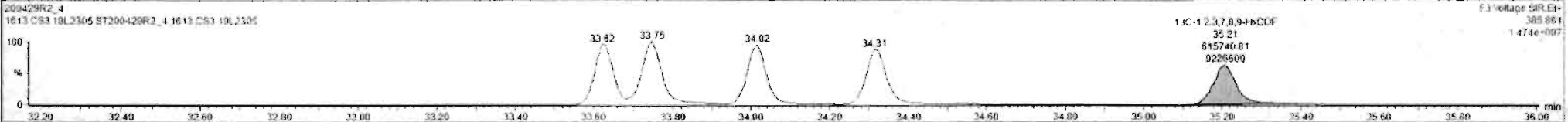
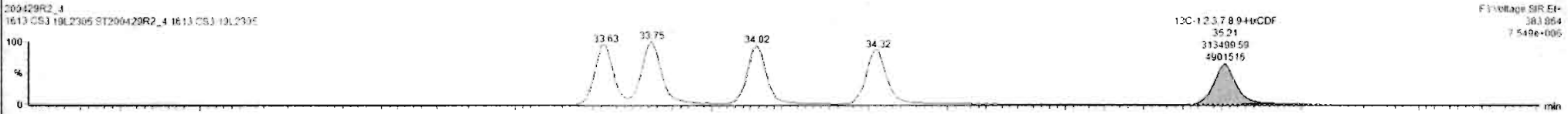
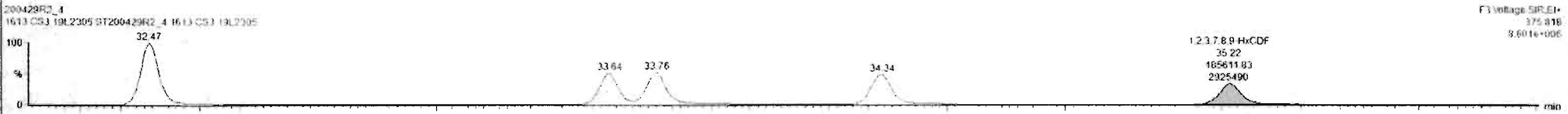
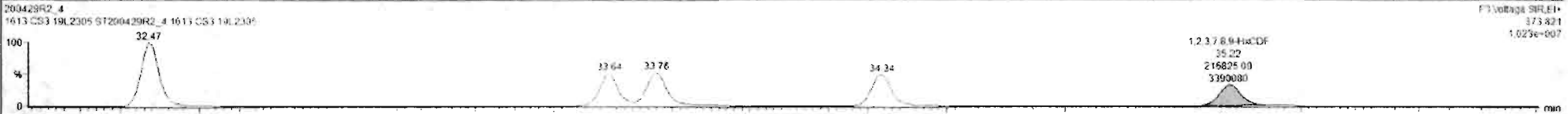


#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%PSD	RRF M.L.	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e5	10.000	0.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0516
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	8.4850e5	50.000	-2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8907e5	1.0790e6	50.000	-0.9	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.219	NO	4.1946e5	9.5281e5	50.000	-1.8	7.64	0.915	0.0599
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	3.4785e5	1.6762e5	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	1.1230e6	50.000	1.1	7.59	0.878	0.0686
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	0.0652
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	9.7924e5	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



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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	0.761	NO	1.4250e5	1.4920e6	10.000	0.8	1.35	0.647	0.0507
2	1,2,3,7,8-PeCDD	21.13	0.616	NO	5.2678e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	24.51	1.220	NO	4.4168e5	8.4852e5	50.000	-2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	24.80	1.202	NO	4.8027e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0567
5	1,2,3,7,8,9-HxCDD	24.98	1.219	NO	4.1546e5	9.3381e5	50.000	-1.5	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	26.38	0.988	NO	2.0768e5	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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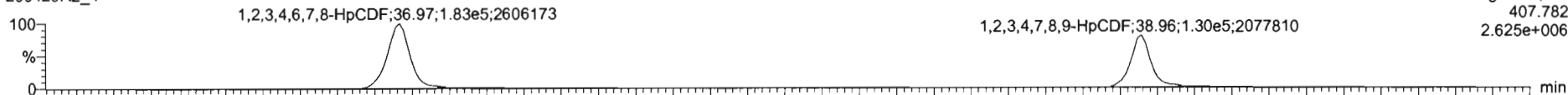
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2\_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

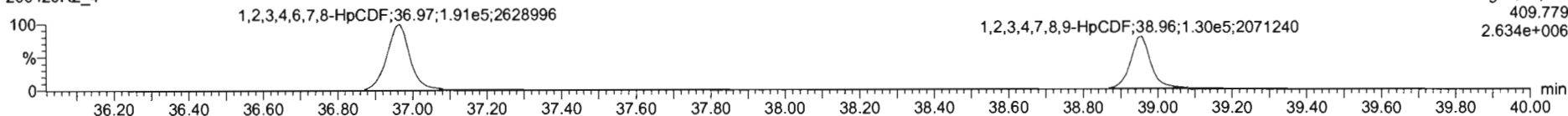
**1,2,3,4,6,7,8-HpCDF**

200429R2\_4



F4:Voltage SIR,EI+  
407.782  
2.625e+006

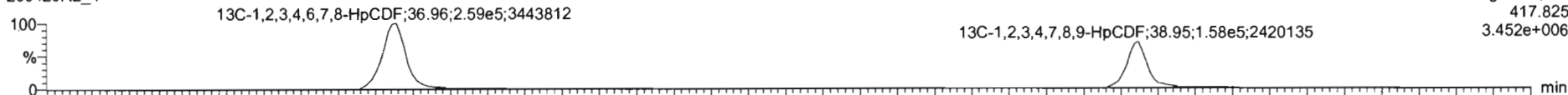
200429R2\_4



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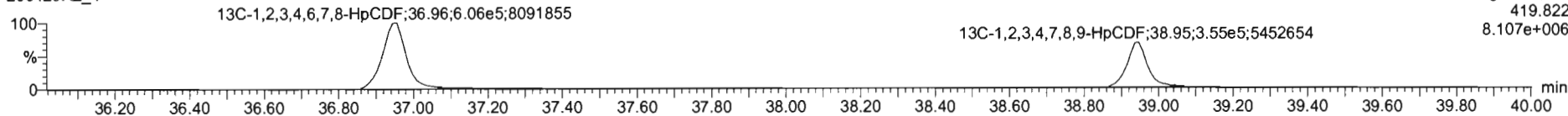
**13C-1,2,3,4,6,7,8-HpCDF**

200429R2\_4



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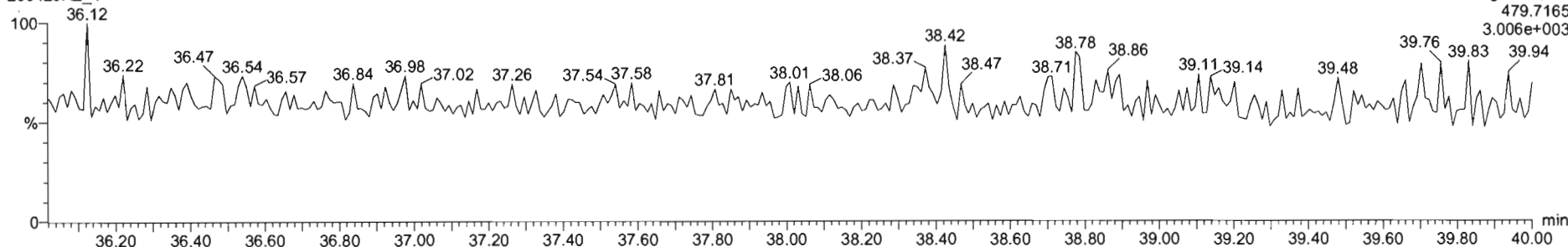
200429R2\_4



F4:Voltage SIR,EI+  
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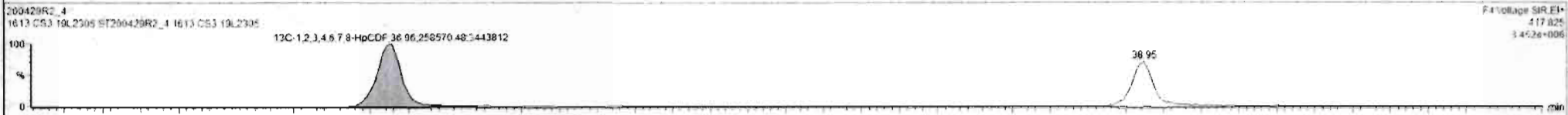
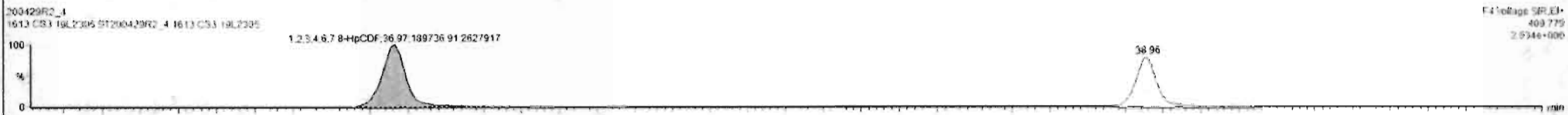
**DPE4**

200429R2\_4



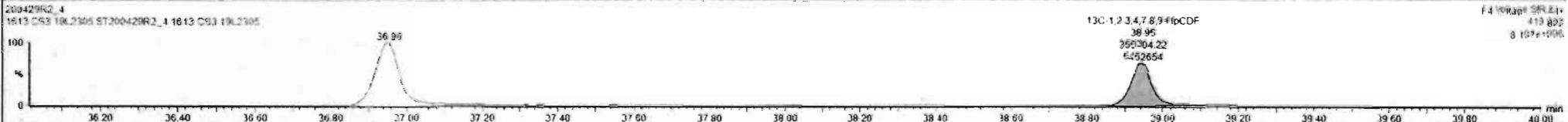
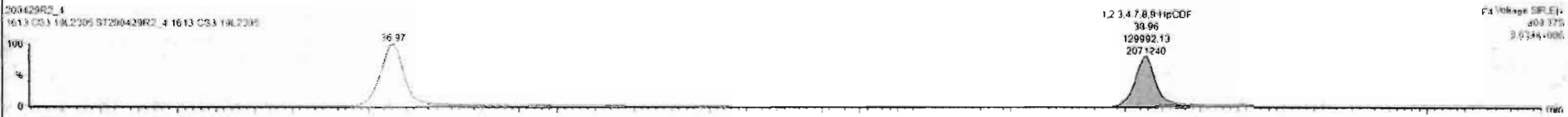
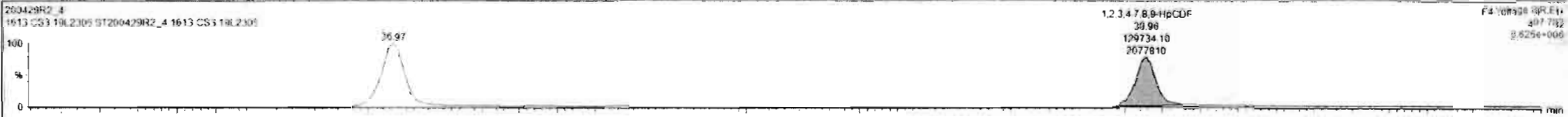
F4:Voltage SIR,EI+  
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#	s	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1	1,2,3,7,8-TCDD	26.07	0.751	NO	1.4250e5	1.4820e6	10.000	0.8	5.25	0.947	0.0507
2	2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.2679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
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	0.862	NO	3.7234e5	6.6465e5	50.000	-1.2	7.54	0.871	0.0657
16	16	1,2,3,4,7,8,9-HpCDF	38.98	0.998	NO	2.5673e5	5.1182e5	50.000	0.3	6.62	1.01	0.0670
17	17	OCDF	41.53	0.862	NO	5.3639e5	1.3198e6	100.000	1.3	7.16	0.802	0.0575



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	1.6581e6	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



Custom Reporting: Select reports to generate

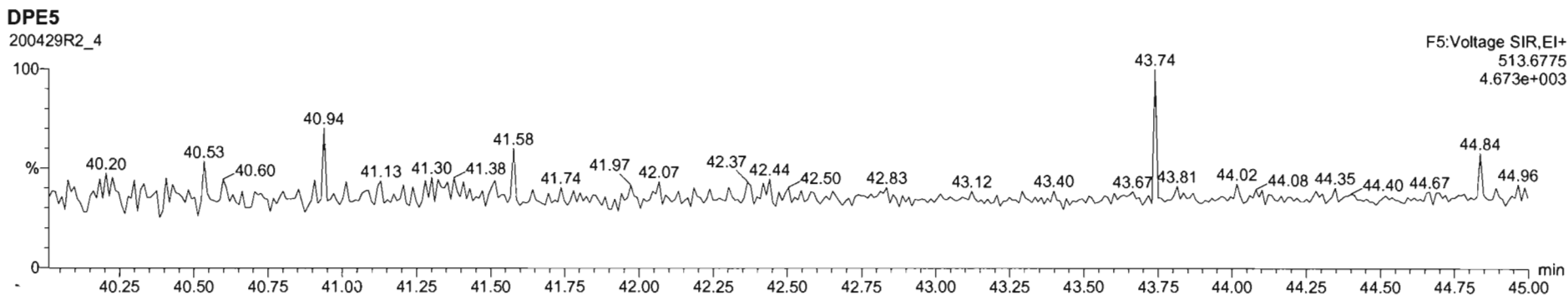
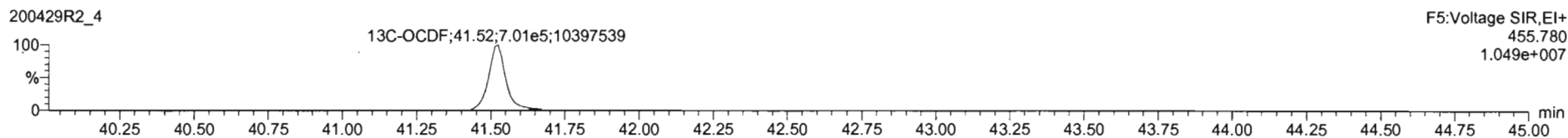
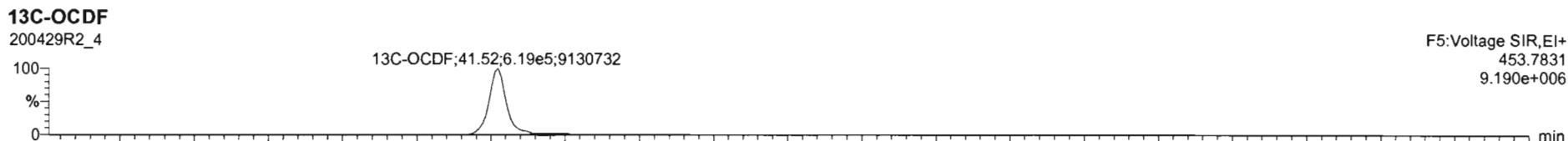
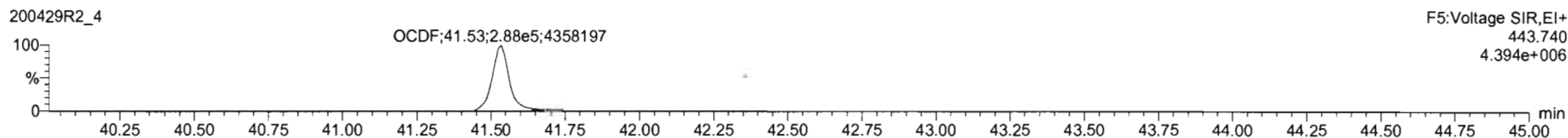
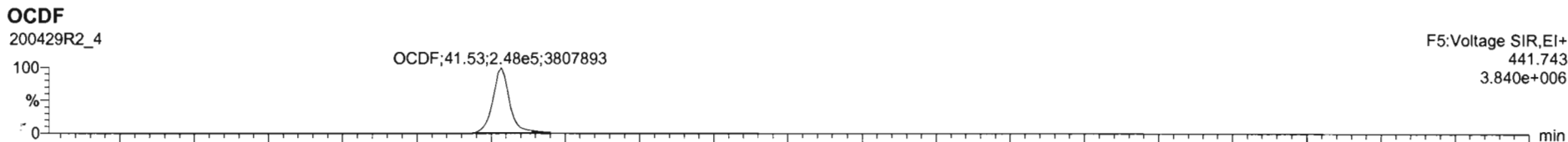
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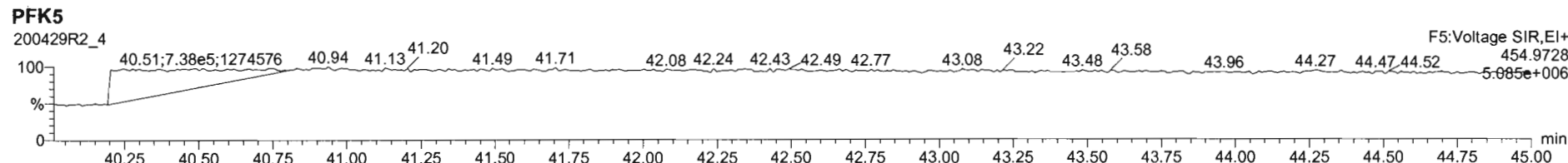
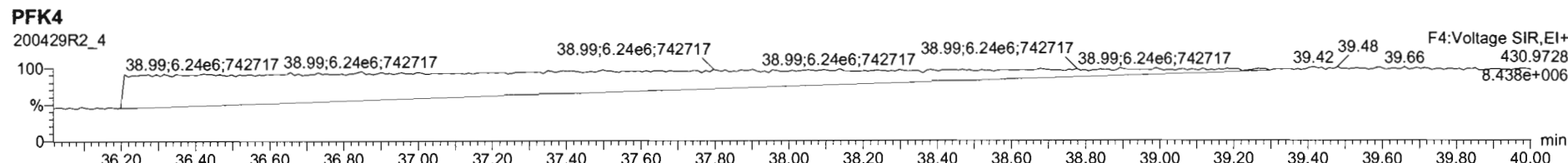
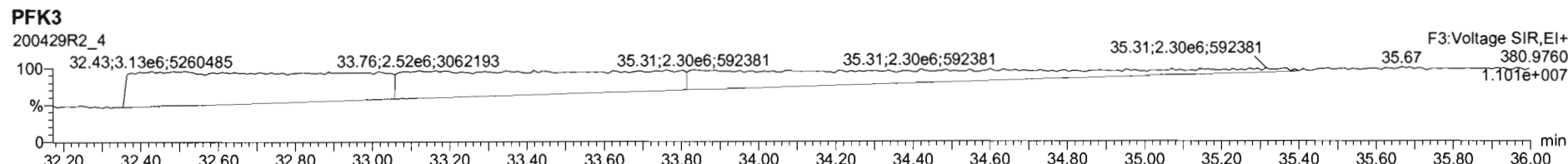
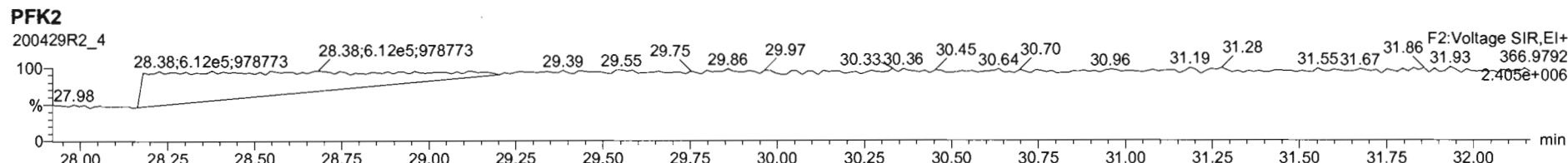
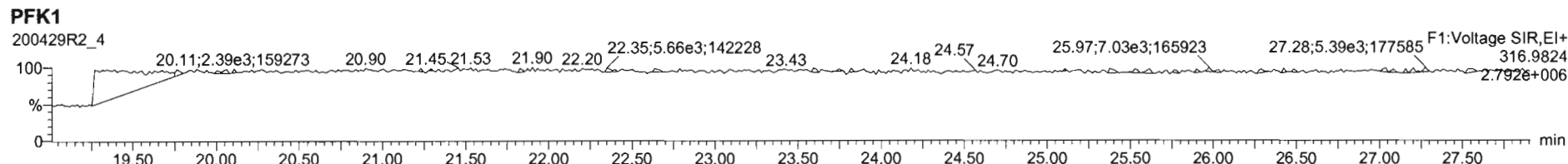
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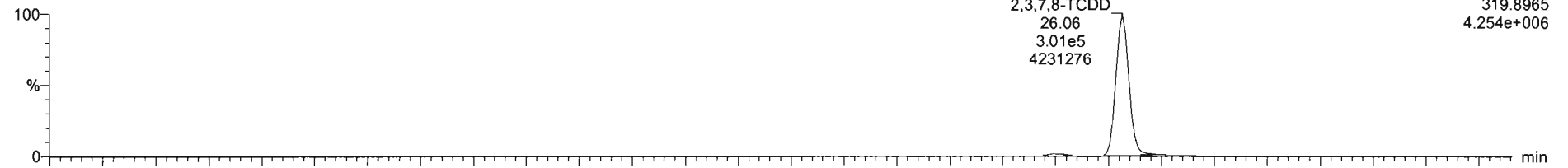
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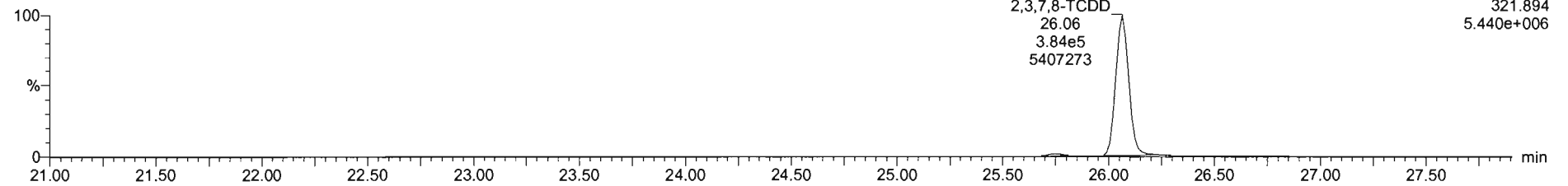
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**2,3,7,8-TCDD**

200429R2\_5

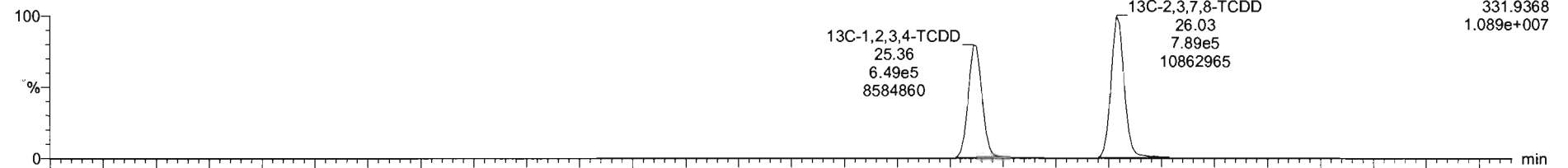


200429R2\_5

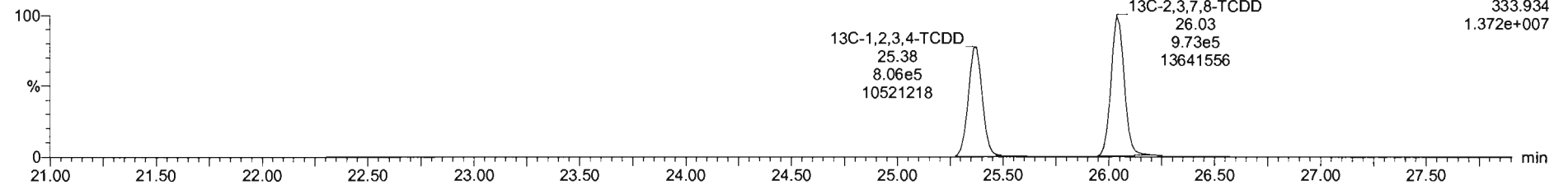


**13C-2,3,7,8-TCDD**

200429R2\_5



200429R2\_5



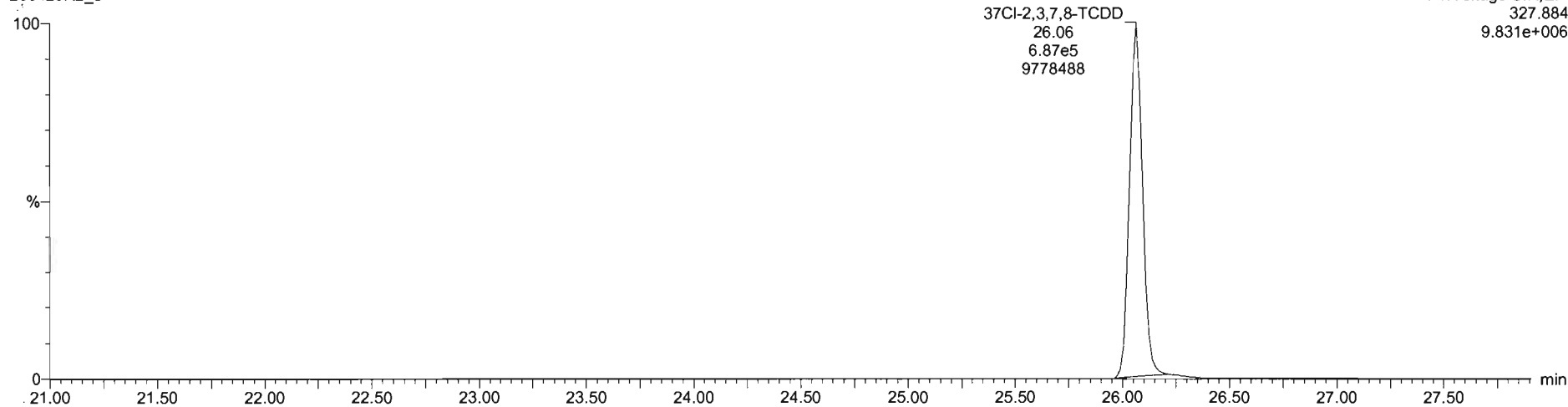
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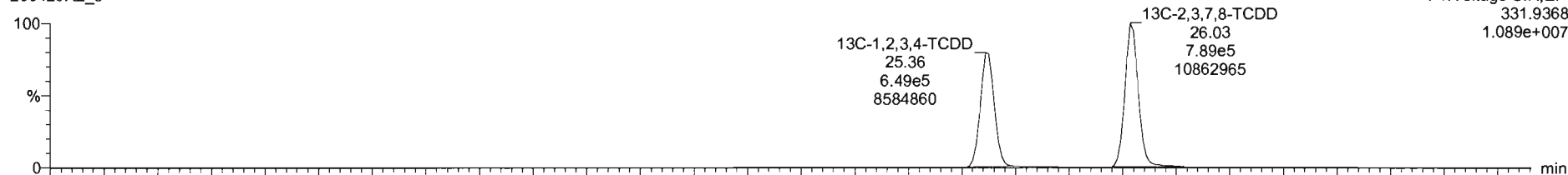
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200429R2\_5

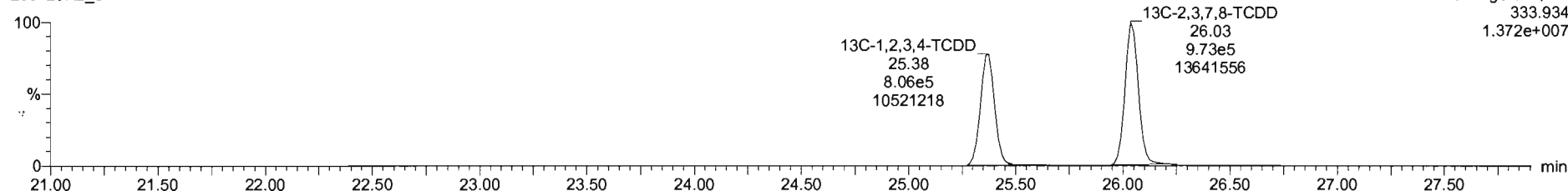


**13C-1,2,3,4-TCDD**

200429R2\_5



200429R2\_5



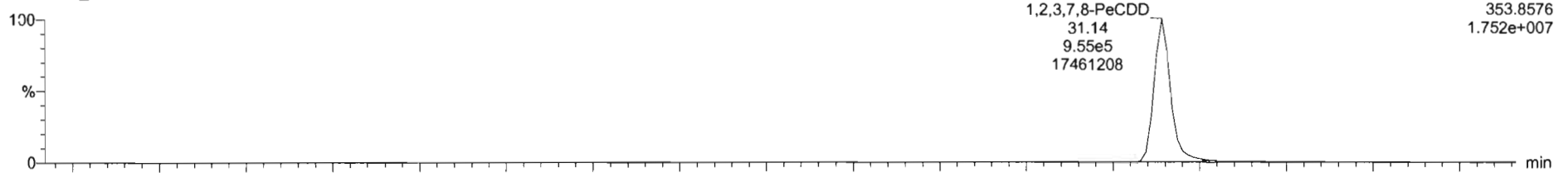
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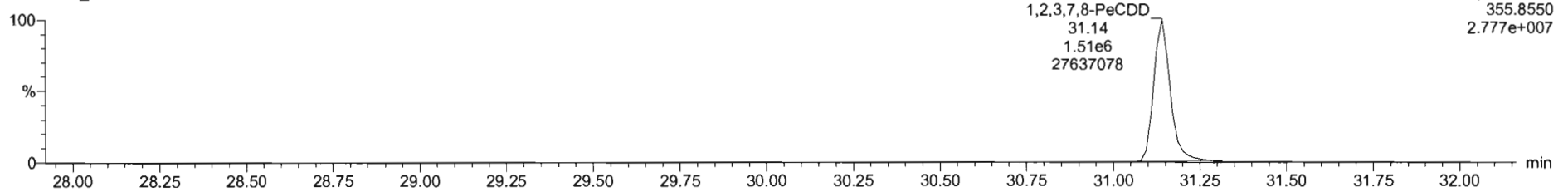
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**1,2,3,7,8-PeCDD**

200429R2\_5

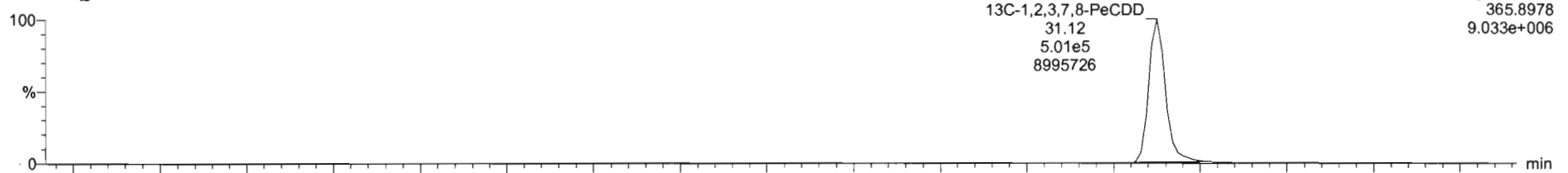


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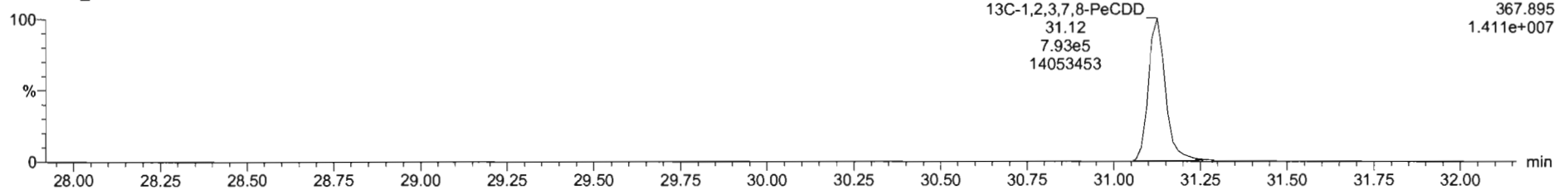


**<sup>13</sup>C-1,2,3,7,8-PeCDD**

200429R2\_5



200429R2\_5



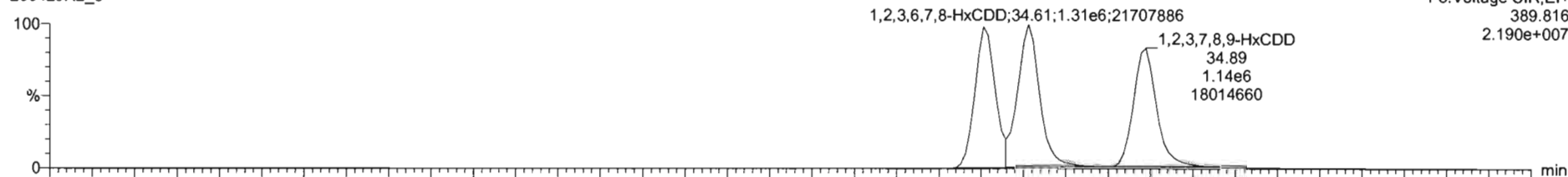
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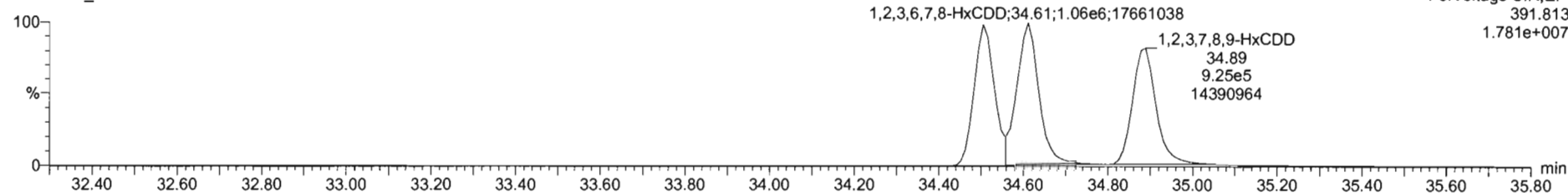
**1,2,3,4,7,8-HxCDD**

200429R2\_5



F3:Voltage SIR,EI+  
389.816  
2.190e+007

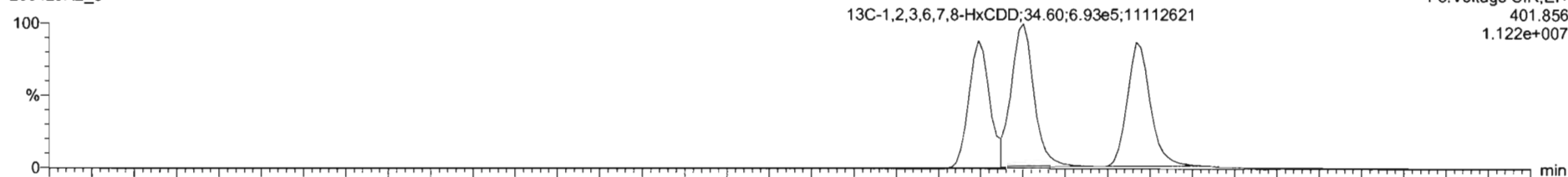
200429R2\_5



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391.813  
1.781e+007

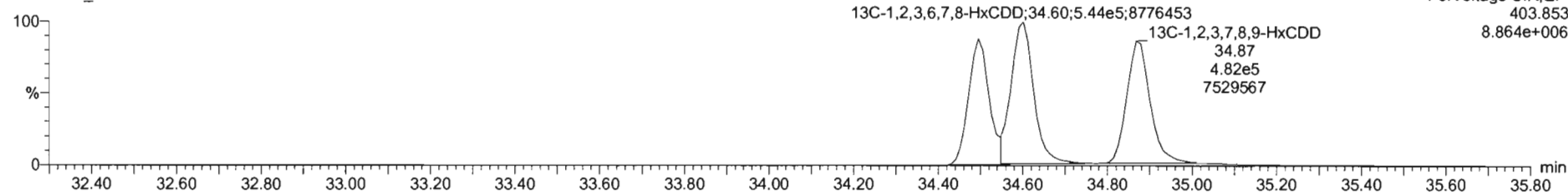
**13C-1,2,3,4,7,8-HxCDD**

200429R2\_5



F3:Voltage SIR,EI+  
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1.122e+007

200429R2\_5



F3:Voltage SIR,EI+  
403.853  
8.864e+006

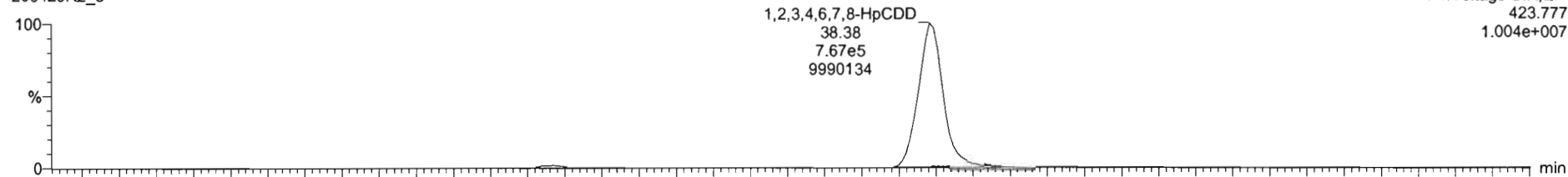
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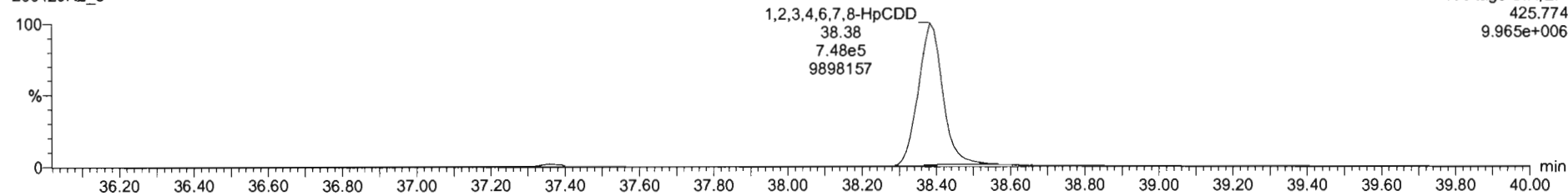
**1,2,3,4,6,7,8-HpCDD**

200429R2\_5



F4:Voltage SIR,EI+  
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1.004e+007

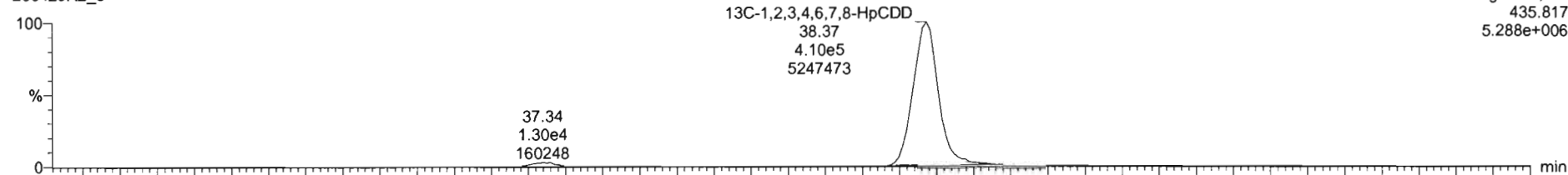
200429R2\_5



F4:Voltage SIR,EI+  
425.774  
9.965e+006

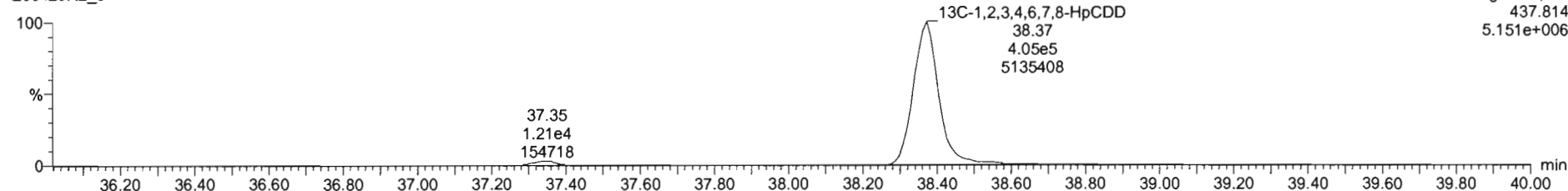
**13C-1,2,3,4,6,7,8-HpCDD**

200429R2\_5

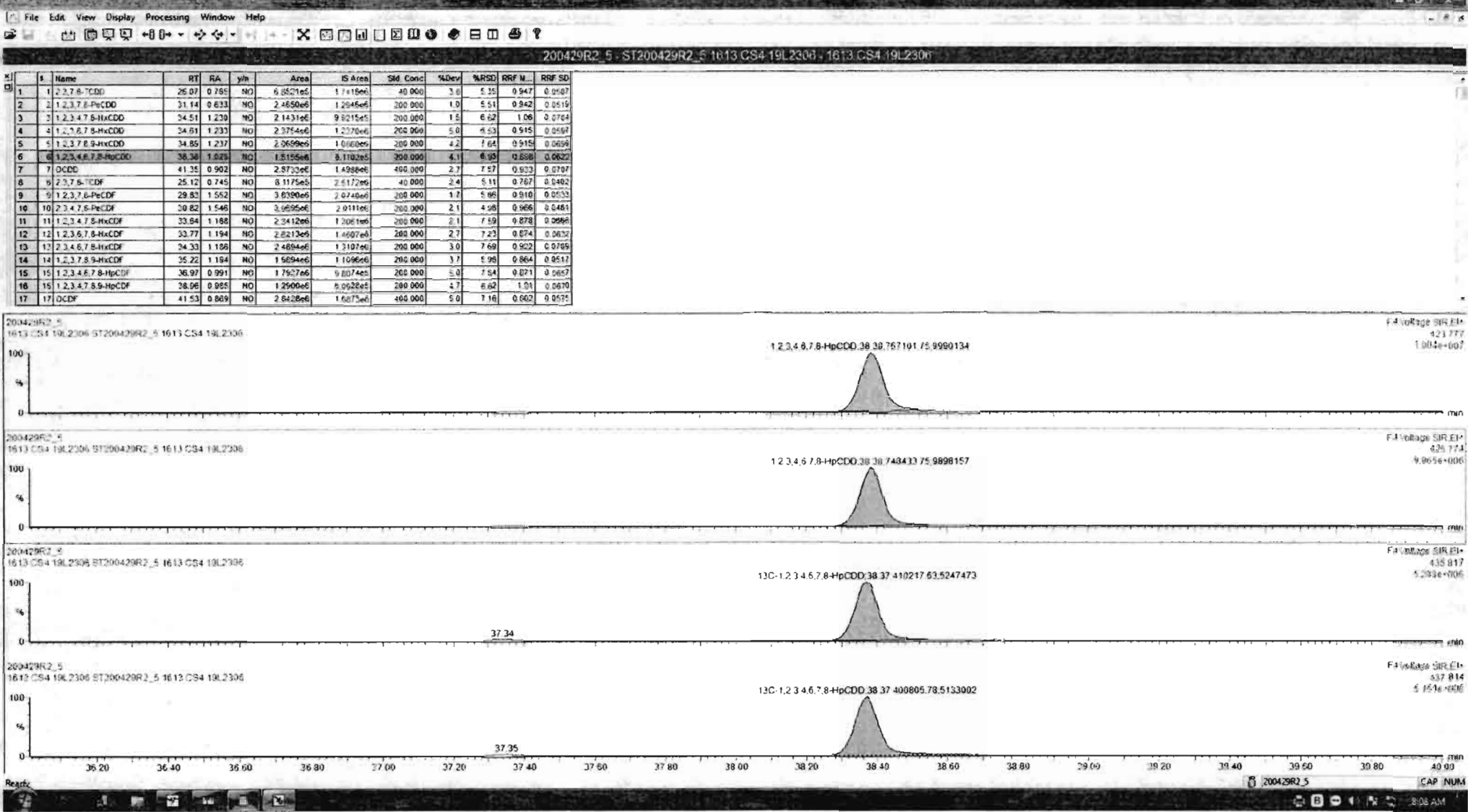


F4:Voltage SIR,EI+  
435.817  
5.288e+006

200429R2\_5



F4:Voltage SIR,EI+  
437.814  
5.151e+006

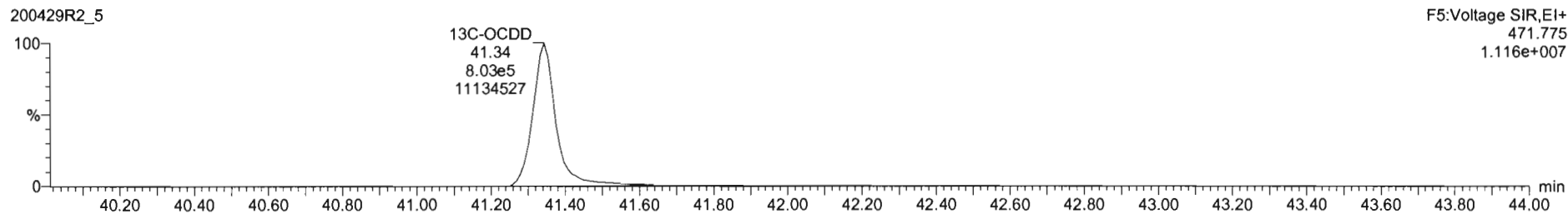
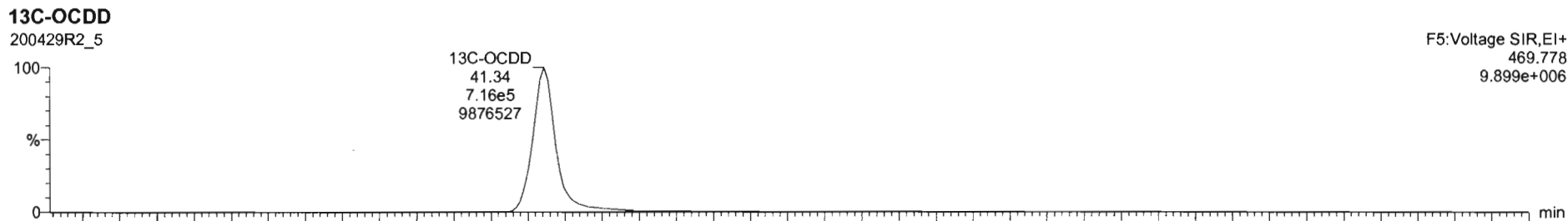
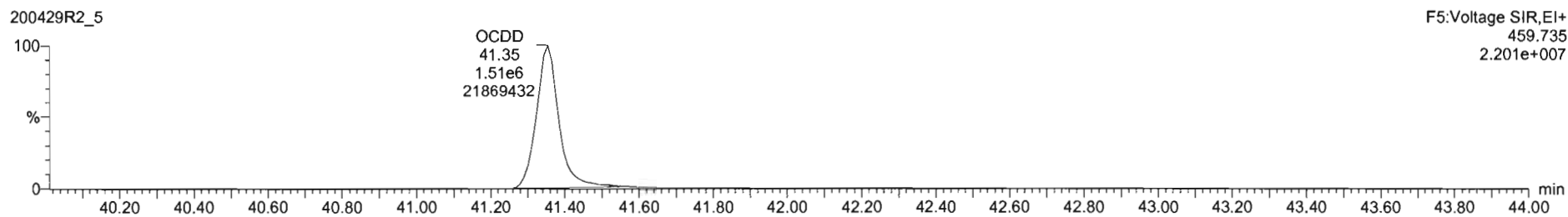
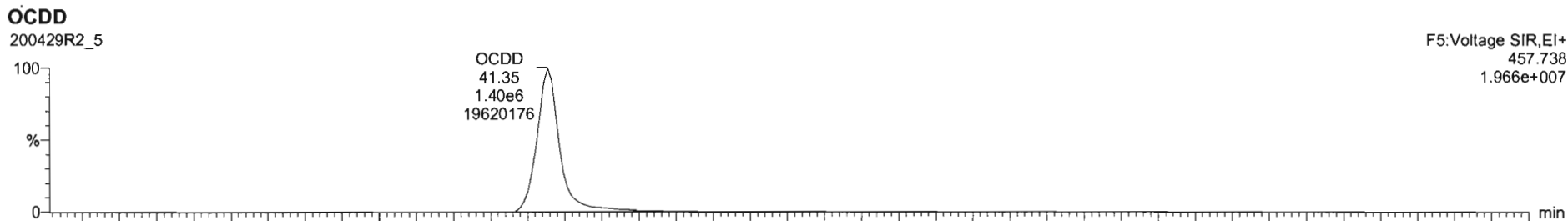




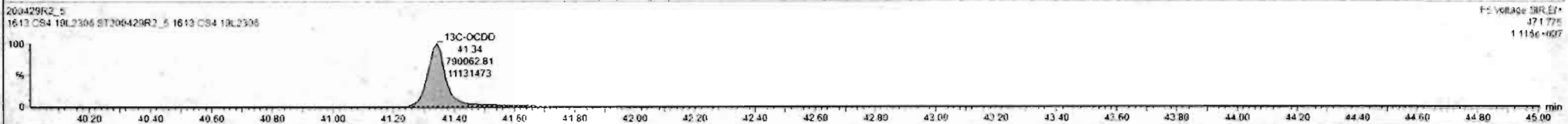
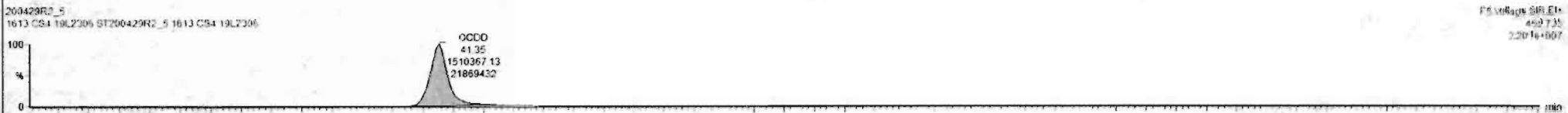
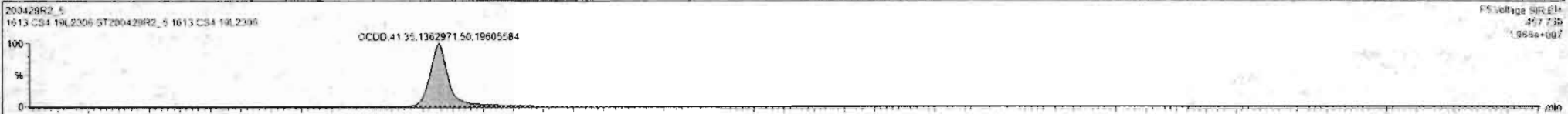
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#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	2,3,7,8-TCDD	28.07	0.785	NO	6.6521e5	1.7418e6	40.000	2.0	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.633	NO	2.4650e5	1.2946e6	200.000	1.0	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.230	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	5.1103e5	200.000	4.1	6.92	0.856	0.0520
7	OCDD	41.35	0.962	ND	2.8733e6	1.4889e6	400.000	2.7	7.57	0.833	0.0767
8	2,3,7,8-TCDF	25.12	0.745	NO	8.1175e5	2.5172e6	40.000	2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.83	1.552	NO	3.6390e6	2.0740e6	200.000	1.7	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.546	NO	3.9655e6	2.0111e6	200.000	2.1	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.158	NO	2.3412e6	1.3061e6	200.000	2.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.77	1.194	NO	2.6213e6	1.4607e6	200.000	2.7	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.186	NO	2.4894e6	1.3107e6	200.000	3.0	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.22	1.194	NO	1.9654e6	1.1056e6	200.000	3.7	5.98	0.864	0.0512
15	1,2,3,4,6,7,8-HpCDF	36.97	0.991	NO	1.7927e6	9.8074e5	200.000	5.0	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	0.965	NO	1.2500e5	6.9528e5	200.000	4.7	6.62	1.01	0.0670
17	OCDF	41.53	0.863	NO	2.8428e6	1.6673e6	400.000	5.0	7.16	0.802	0.0575



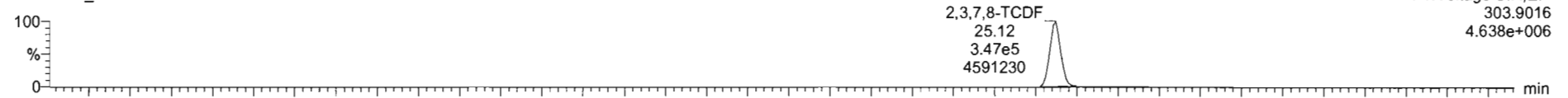
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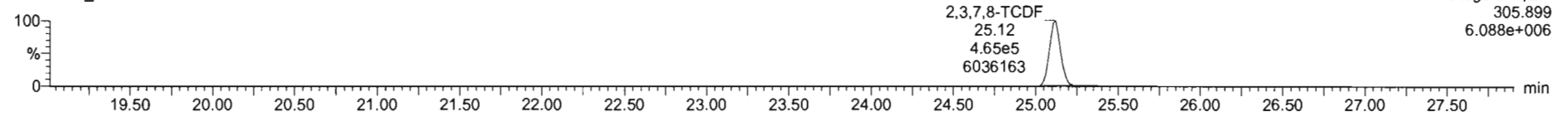
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**2,3,7,8-TCDF**

200429R2\_5

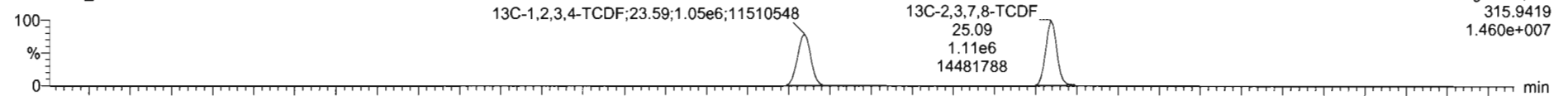


200429R2\_5

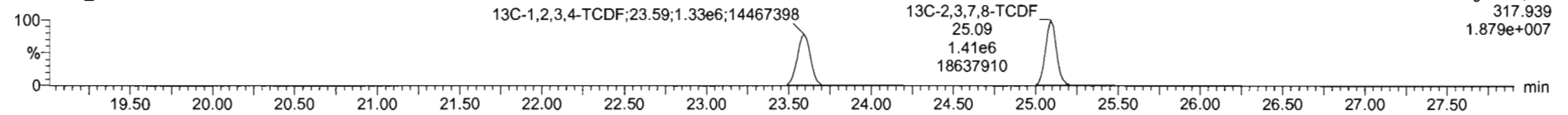


**13C-2,3,7,8-TCDF**

200429R2\_5

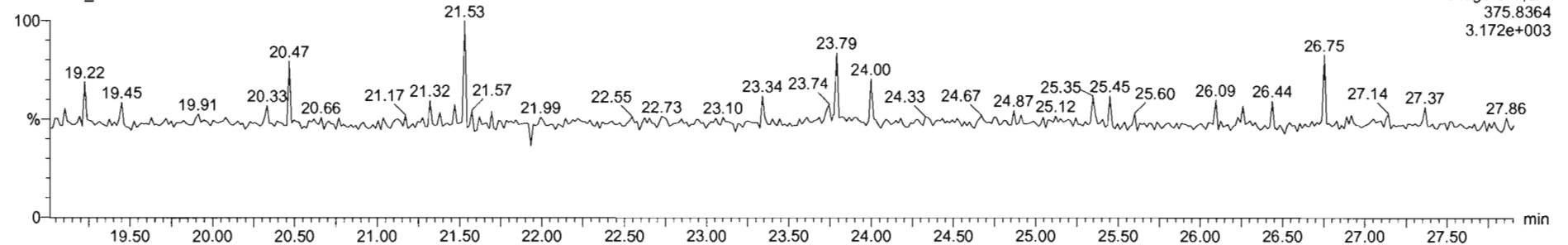


200429R2\_5



**DPE1**

200429R2\_5



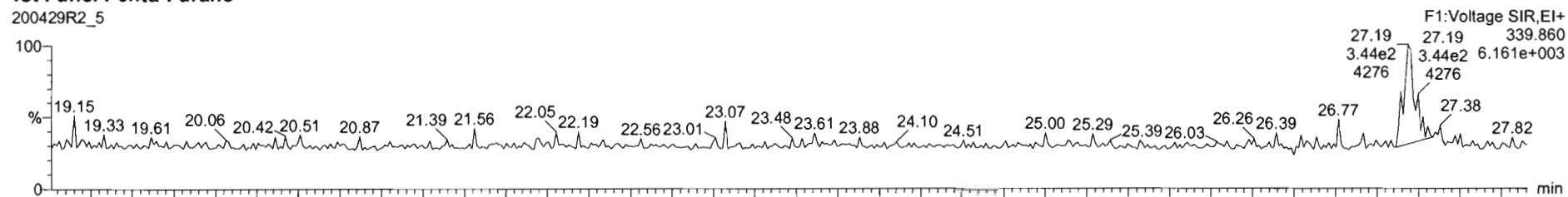
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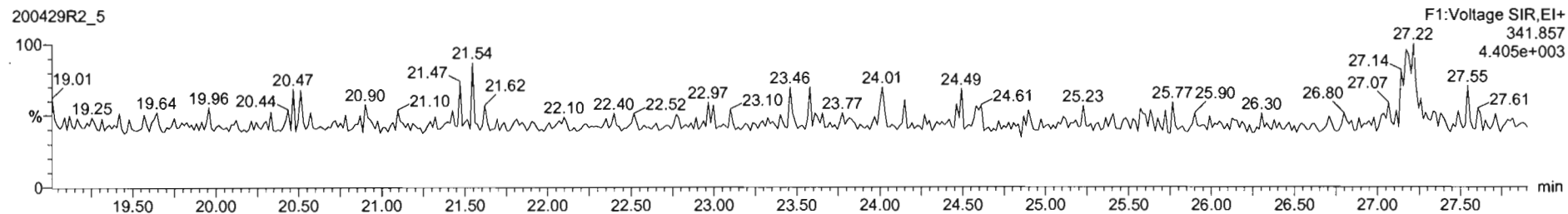
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200429R2\_5

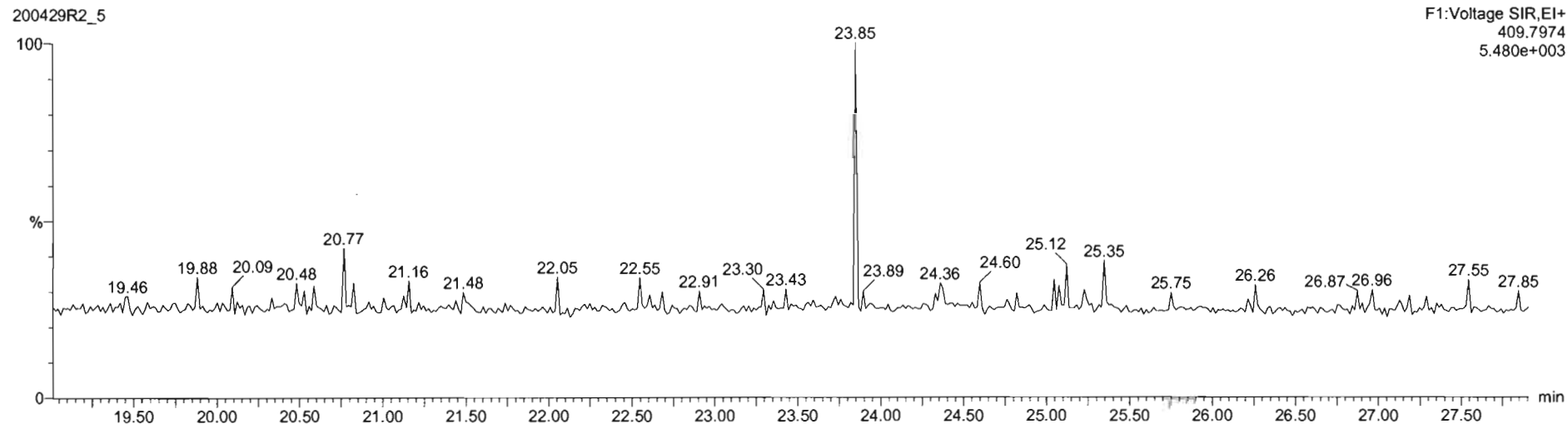


200429R2\_5



DPE6

200429R2\_5



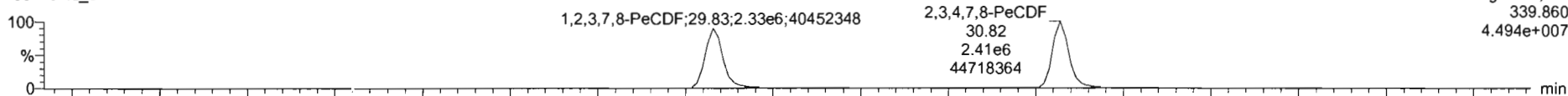
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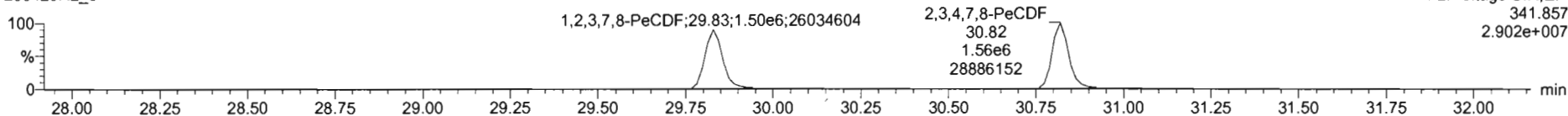
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**1,2,3,7,8-PeCDF**

200429R2\_5

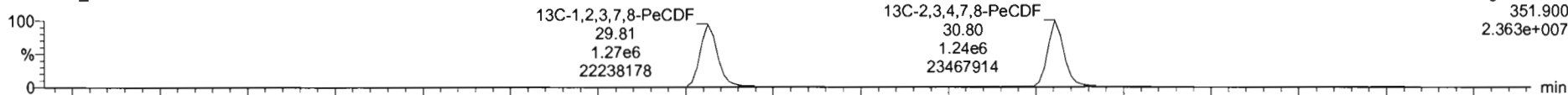


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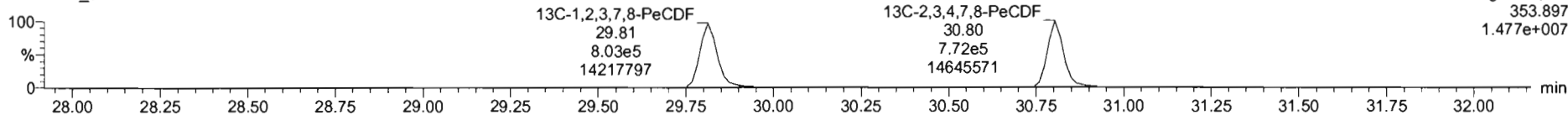


**13C-1,2,3,7,8-PeCDF**

200429R2\_5

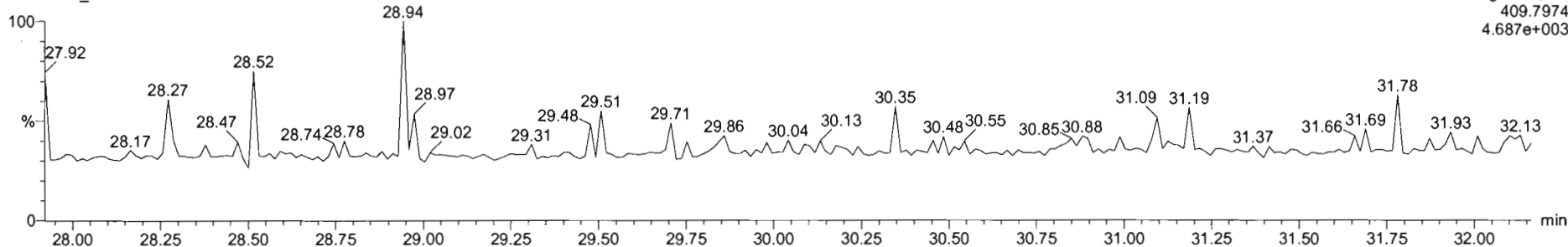


200429R2\_5



**DPE2**

200429R2\_5



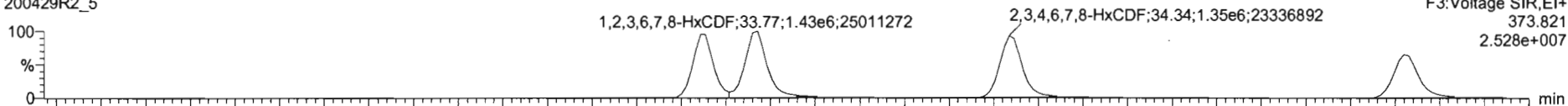
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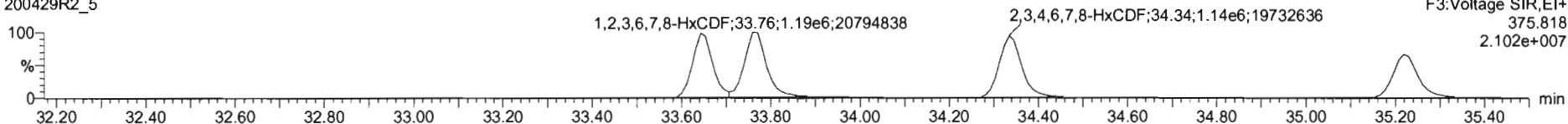
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**1,2,3,4,7,8-HxCDF**

200429R2\_5

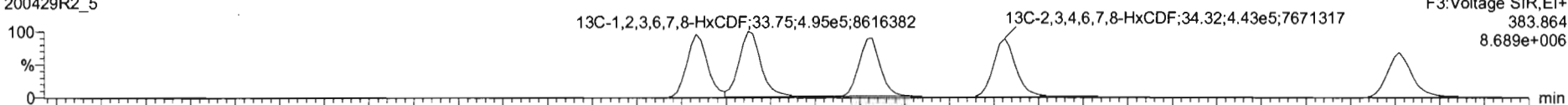


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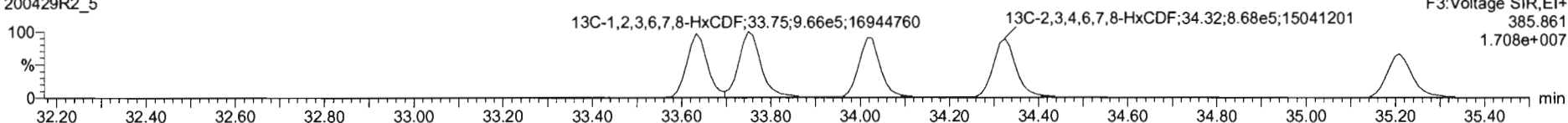


**13C-1,2,3,4,7,8-HxCDF**

200429R2\_5

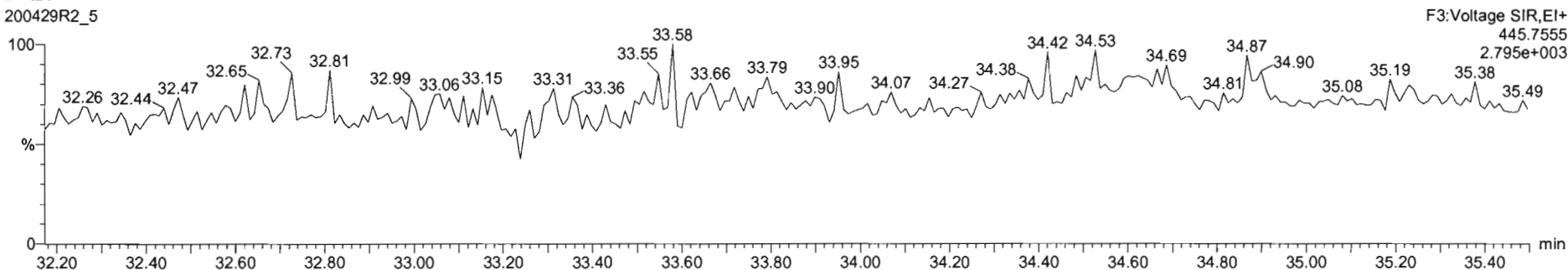


200429R2\_5

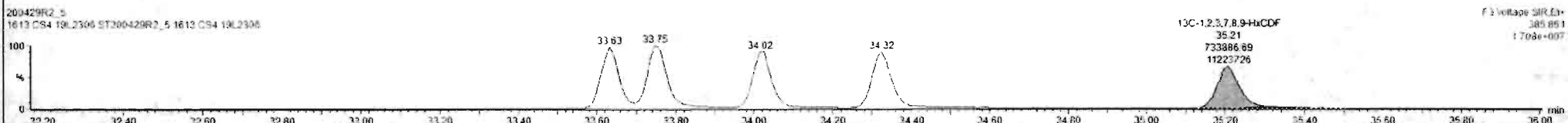
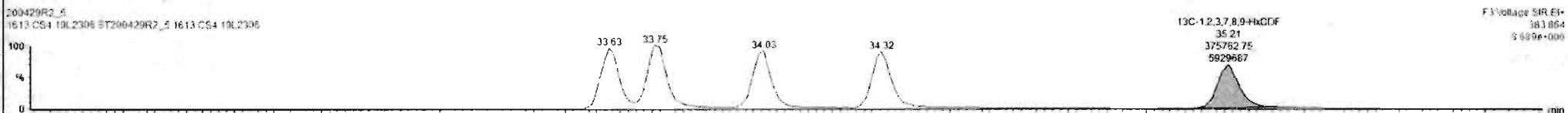


**DPE3**

200429R2\_5



#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.97	0.785	NO	6.6521e5	1.7418e6	40.000	2.6	5.25	0.947	0.0597
2	1,2,3,7,8-PeCDD	31.14	0.633	NO	2.4650e6	1.2646e6	200.000	1.0	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.230	NO	2.1431e6	9.9215e5	200.000	1.5	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.81	1.233	NO	2.3754e6	1.2270e6	200.000	5.0	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.89	1.237	NO	2.0699e6	1.0860e6	200.000	4.2	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.025	NO	1.5155e6	5.1102e5	200.000	4.1	8.93	0.896	0.0622
7	OCDD	41.35	0.902	NO	2.8733e6	1.4988e6	400.000	2.7	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.12	0.745	NO	3.1175e5	2.5172e5	40.000	2.4	5.11	0.787	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	5.28	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.991	NO	1.7937e6	9.8074e5	200.000	5.0	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	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



Custom Reporting: Select reports to generate

200429R2\_5 CAP NUM

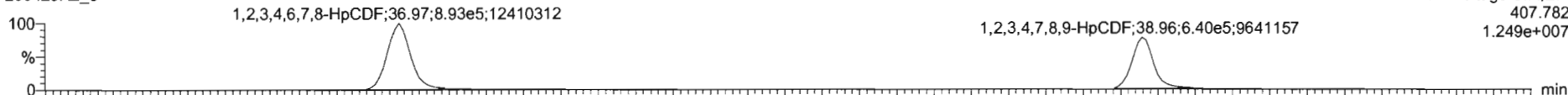
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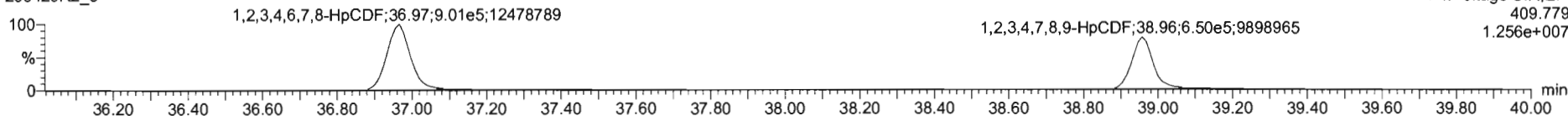
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**1,2,3,4,6,7,8-HpCDF**

200429R2\_5

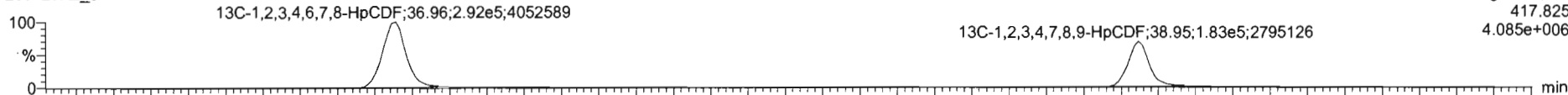


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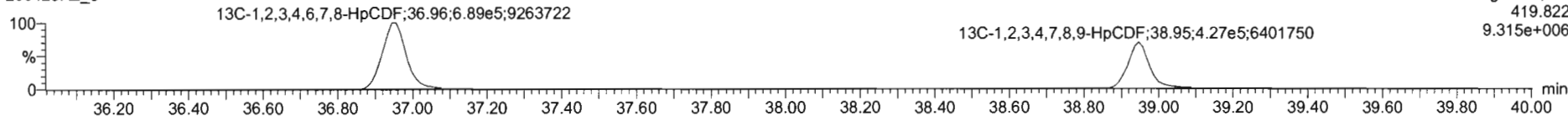


**13C-1,2,3,4,6,7,8-HpCDF**

200429R2\_5

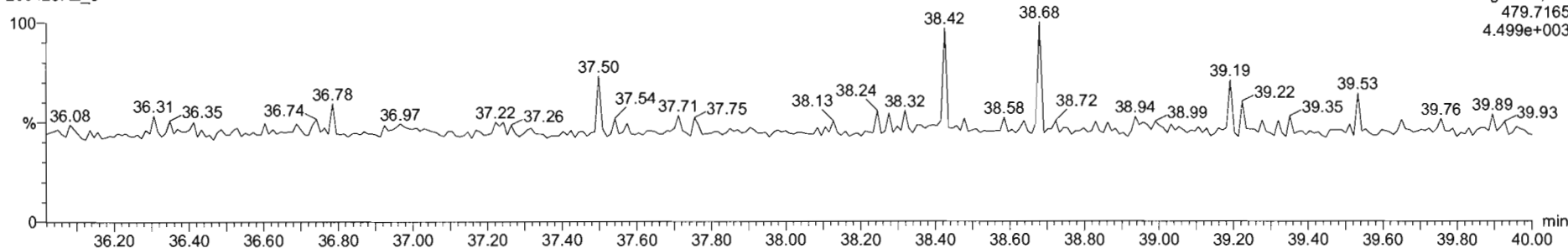


200429R2\_5



**DPE4**

200429R2\_5

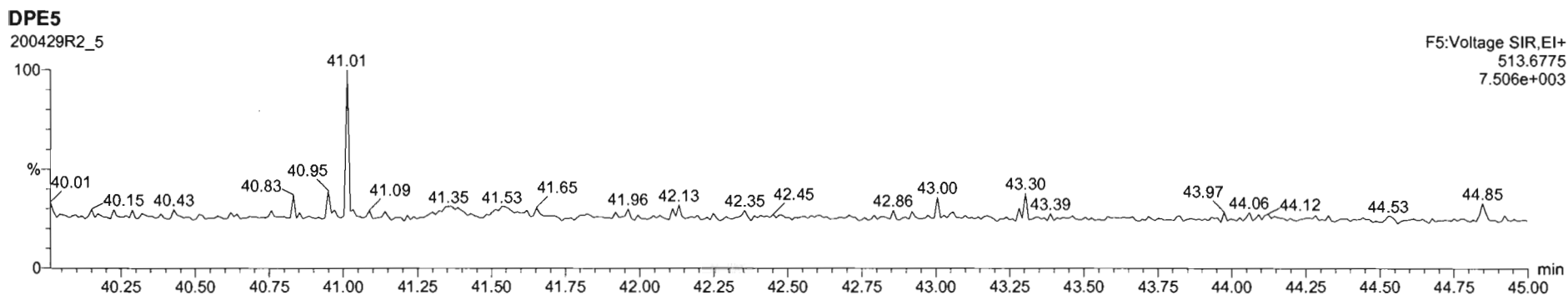
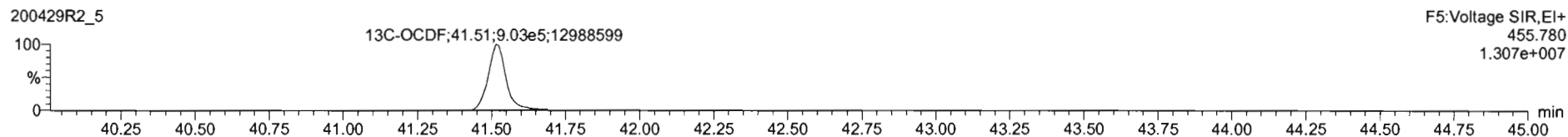
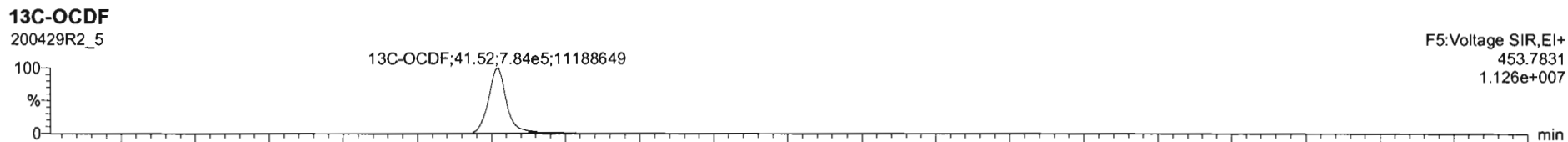
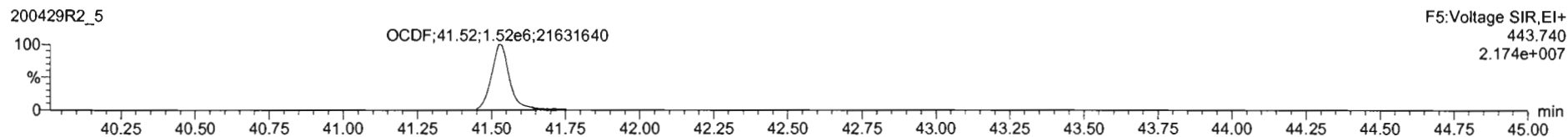
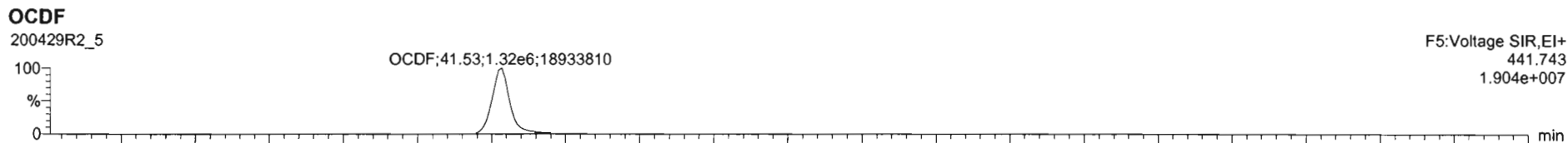




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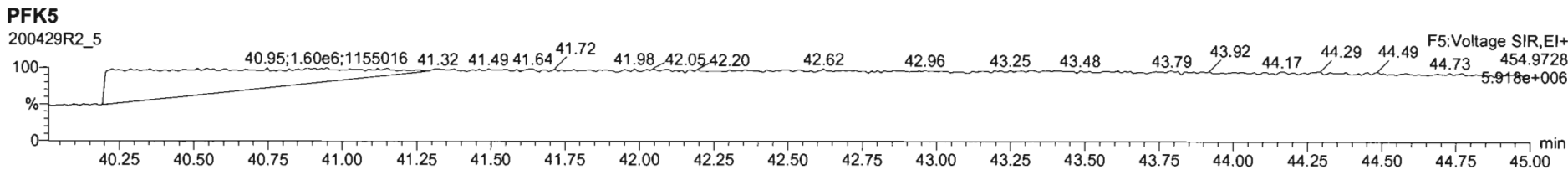
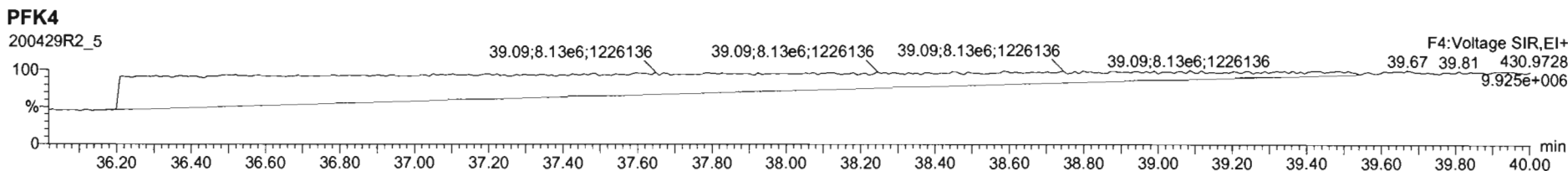
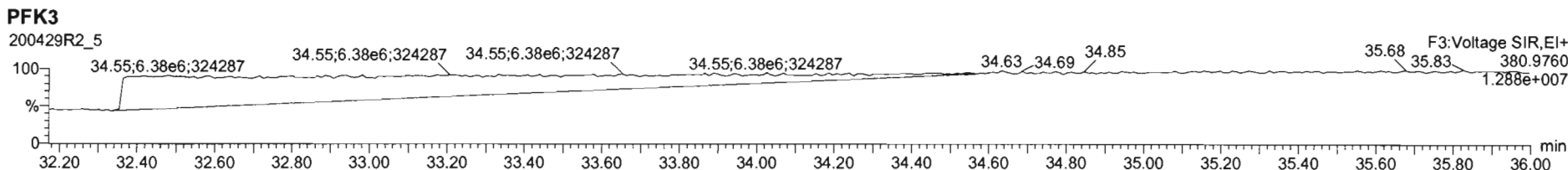
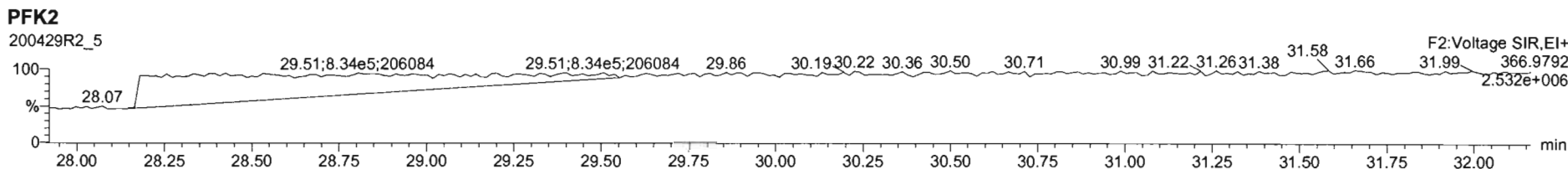
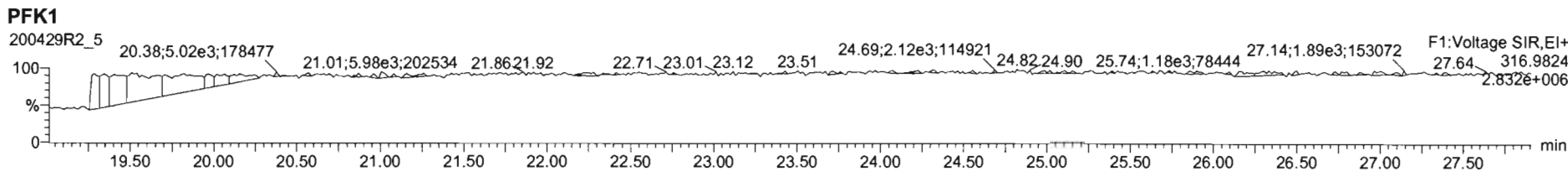
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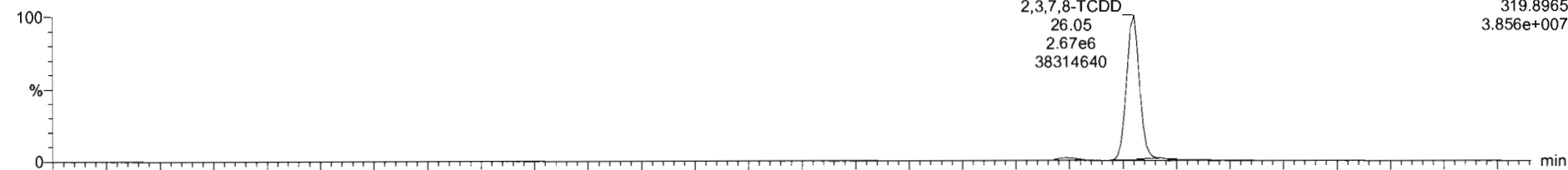
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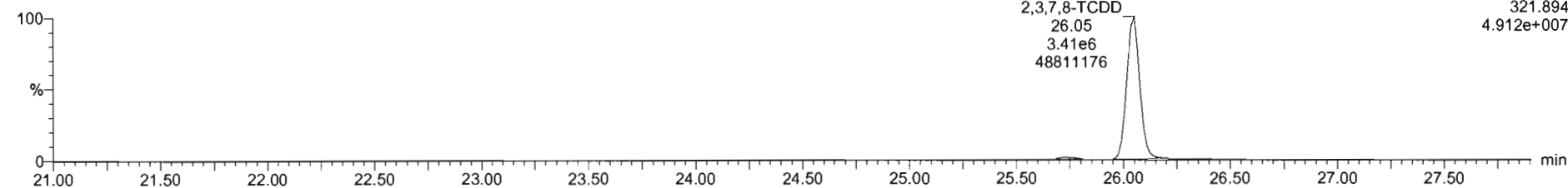
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**2,3,7,8-TCDD**

200429R2\_6

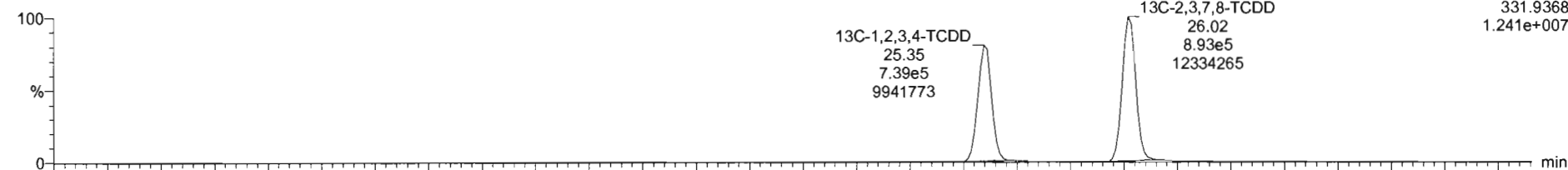


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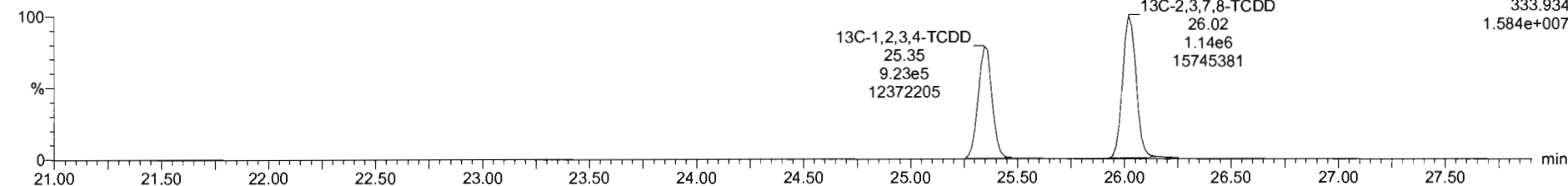


**13C-2,3,7,8-TCDD**

200429R2\_6



200429R2\_6



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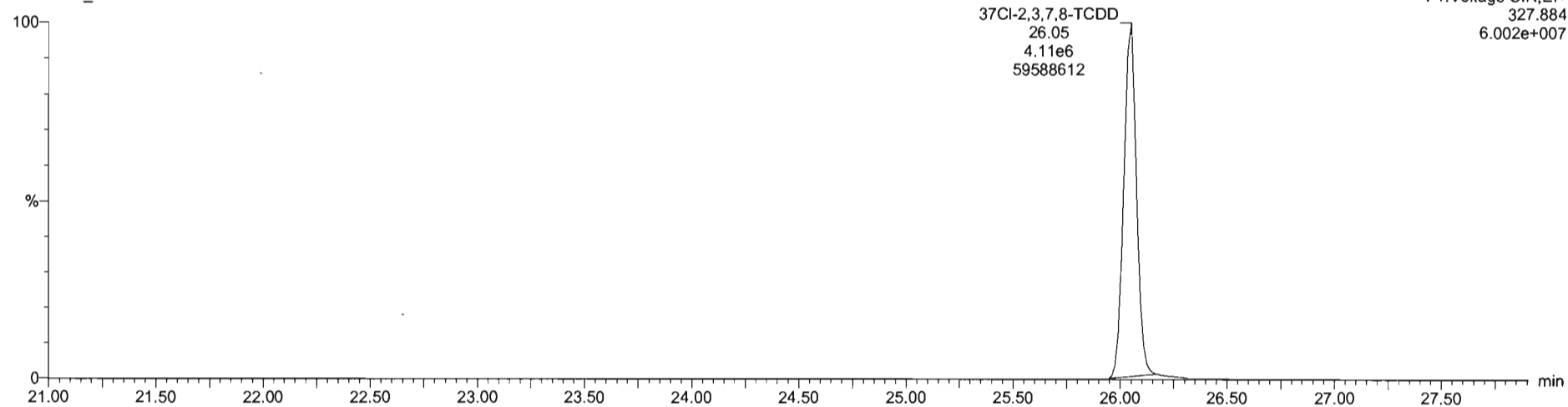
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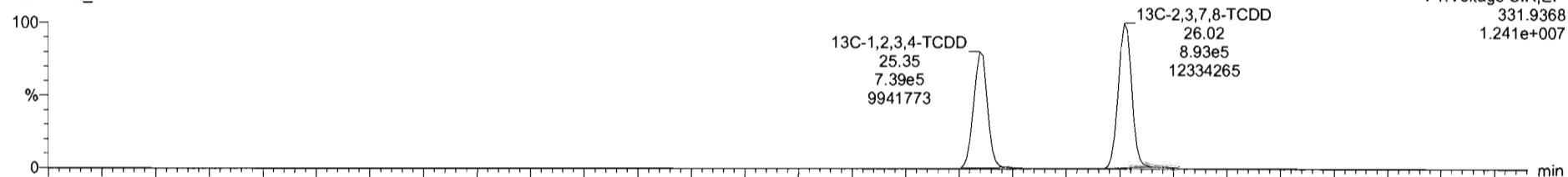
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200429R2\_6

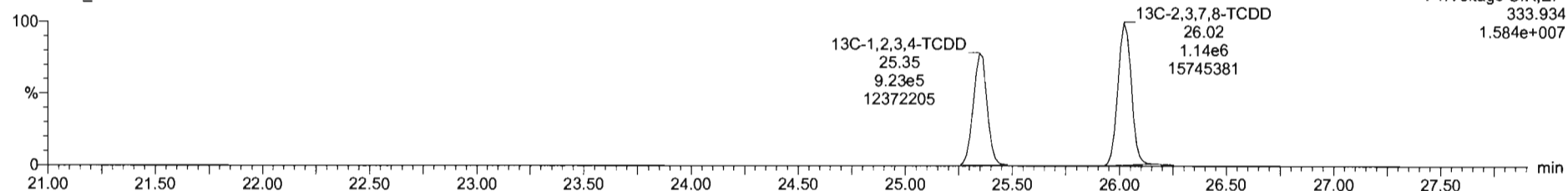


**13C-1,2,3,4-TCDD**

200429R2\_6



200429R2\_6



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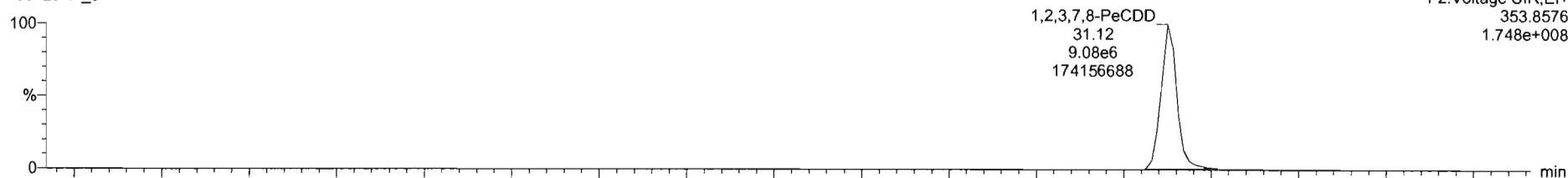
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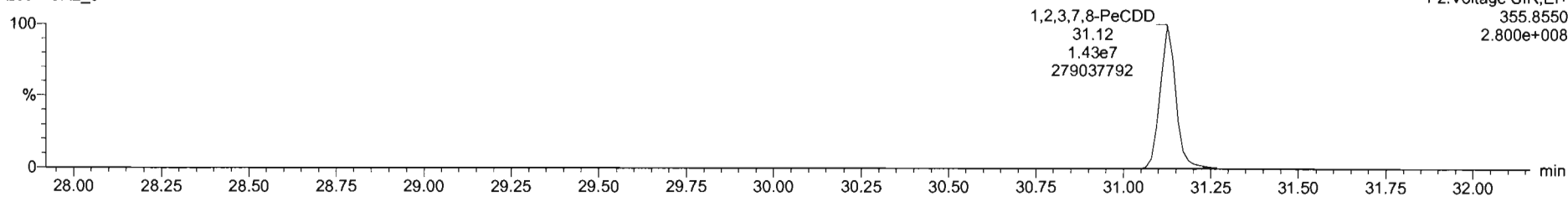
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**1,2,3,7,8-PeCDD**

200429R2\_6

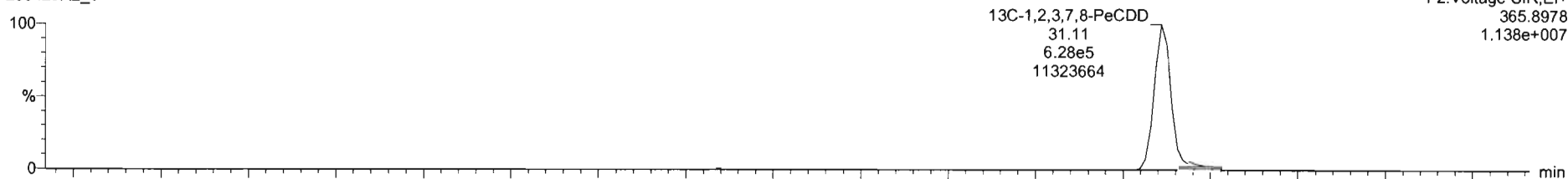


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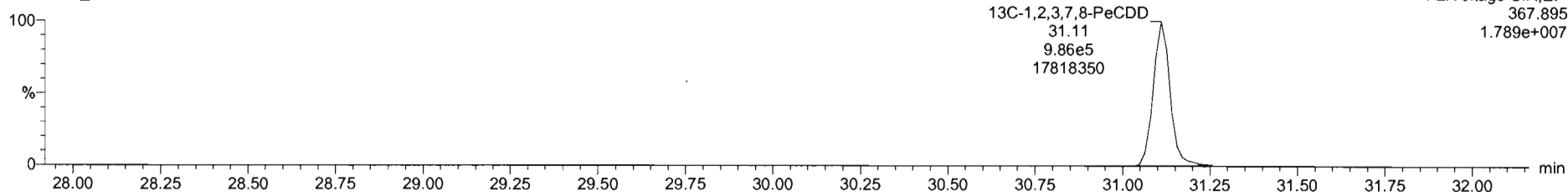


**13C-1,2,3,7,8-PeCDD**

200429R2\_6



200429R2\_6



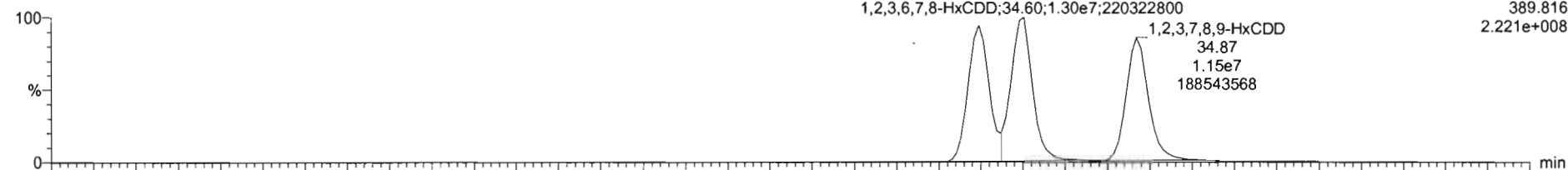
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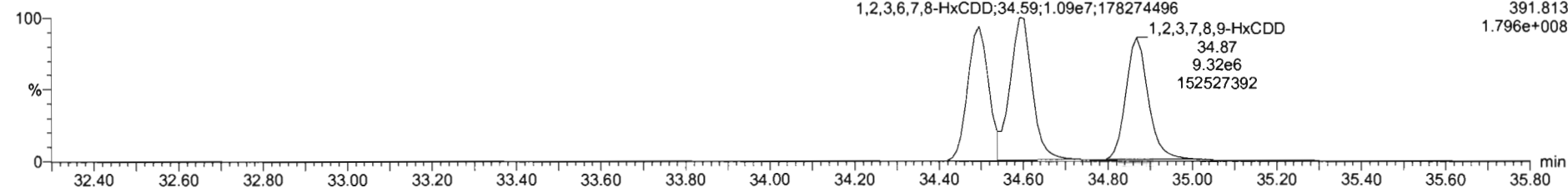
**1,2,3,4,7,8-HxCDD**

200429R2\_6



F3:Voltage SIR,EI+  
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2.221e+008

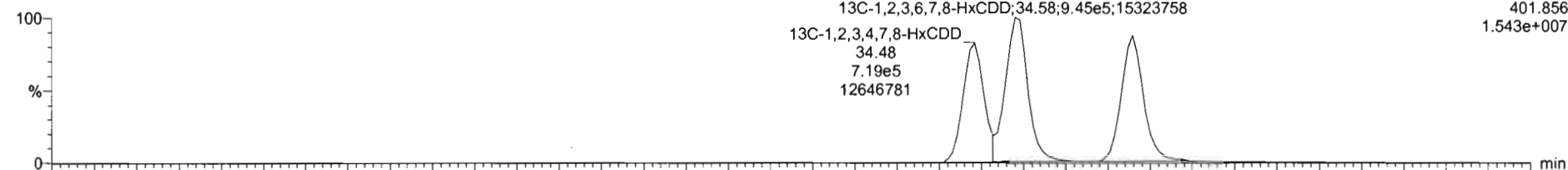
200429R2\_6



F3:Voltage SIR,EI+  
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1.796e+008

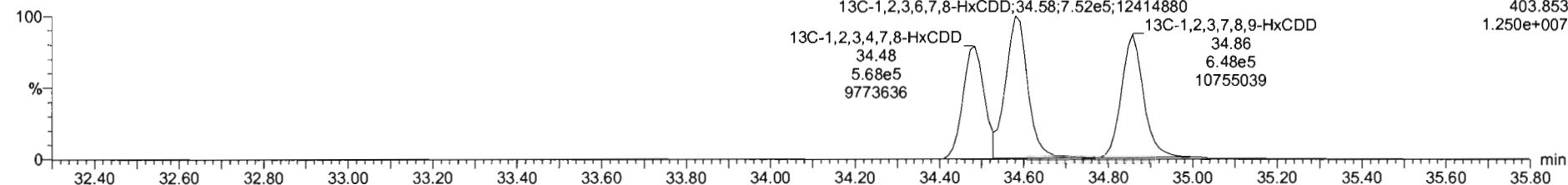
**13C-1,2,3,4,7,8-HxCDD**

200429R2\_6



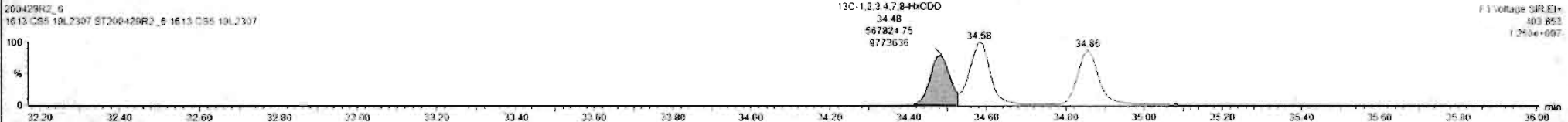
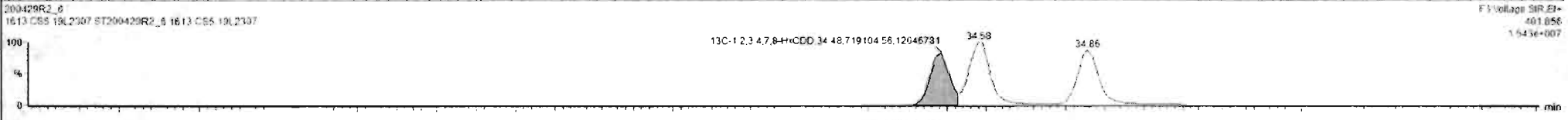
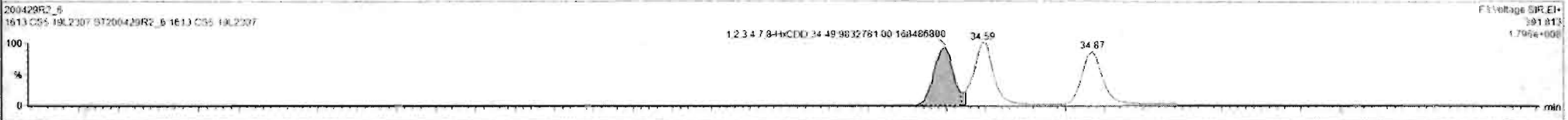
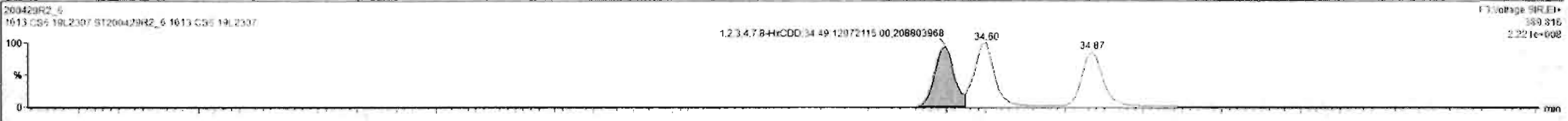
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401.856  
1.543e+007

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	1,2,3,6-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	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	2,3,4,6,7,8-HxCDF	34.33	1.190	NO	2.4775e7	1.7418e6	1500.000	2.9	7.60	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.196	NO	1.9813e7	1.4696e6	1500.000	4.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.96	0.992	NO	1.8927e7	1.3725e6	1500.000	5.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.94	0.991	NO	1.4705e7	8.6492e5	1500.000	6.5	6.62	1.01	0.0670
17	OCDF	41.52	0.667	NO	2.3638e7	2.6295e6	3000.000	4.4	7.16	0.802	0.0575



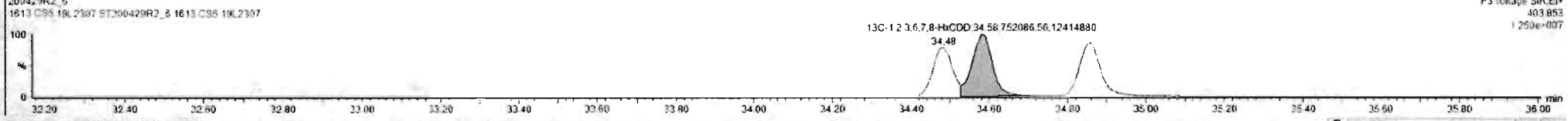
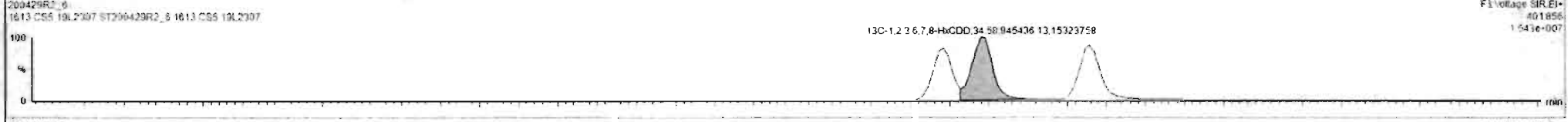
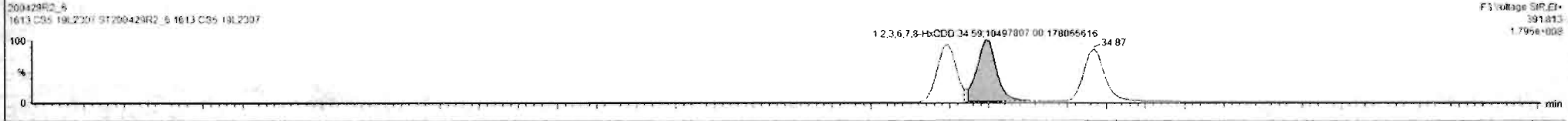
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200429R2\_8 ST200429R2\_1 13 CS5 19L2307 - 1613 CS5 19L2307

#	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	2.3489e7	1.6075e6	1500.000	0.8	6.53	0.915	0.9592
5	1,2,3,7,8,9-HxCDD	34.67	1.233	NO	2.0602e7	1.4580e6	1500.000	4.0	7.64	0.915	0.9690
6	1,2,3,4,6,7,8-HpCDD	36.37	1.019	NO	1.6010e7	1.1360e6	1500.000	5.6	6.93	0.896	0.9622
7	OCDD	41.34	0.887	NO	3.3271e7	2.3135e6	3000.000	4.8	7.57	0.933	0.9707
8	1,2,7,8-TCDF	25.05	0.753	NO	7.1948e6	2.5106e6	300.000	4.7	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.560	NO	3.5938e7	2.5822e6	1500.000	1.5	5.86	0.910	0.9533
10	1,2,3,4,7,8-HxCDF	30.81	1.542	NO	3.6618e7	3.5077e6	1500.000	0.7	4.96	0.966	0.9481
11	1,2,3,4,7,8-HxCDF	33.63	1.190	NO	2.3482e7	1.7070e6	1500.000	4.4	7.59	0.878	0.9666
12	1,2,3,6,7,8-HxCDF	33.75	1.189	NO	2.5241e7	1.9123e6	1500.000	0.7	7.23	0.874	0.9632
13	1,2,3,6,7,8-HxCDF	34.33	1.190	NO	2.4775e7	1.7418e6	1500.000	2.9	7.69	0.932	0.9709
14	1,2,3,7,8,9-HxCDF	35.21	1.196	NO	1.9613e7	1.4696e6	1500.000	4.0	5.96	0.864	0.9517
15	1,2,3,4,6,7,8-HpCDF	36.96	0.992	NO	1.6927e7	1.2725e6	1500.000	5.5	7.54	0.871	0.9657
16	1,2,3,4,7,8,9-HpCDF	36.94	0.993	NO	1.4205e7	8.6492e5	1500.000	6.5	6.62	1.01	0.0670
17	OCDF	41.52	0.887	NO	2.3036e7	2.6295e6	3000.000	4.4	7.16	0.802	0.9575





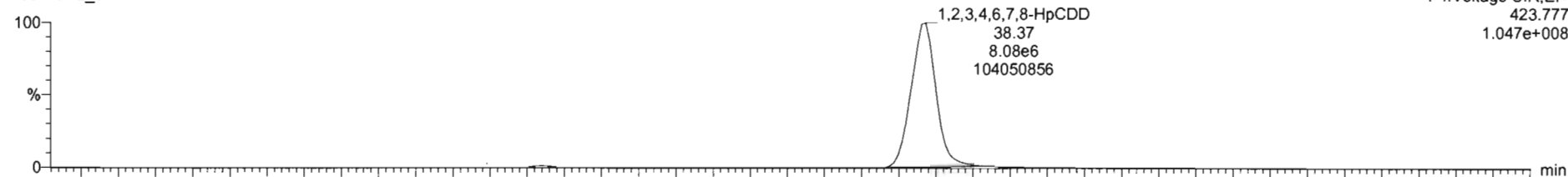
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

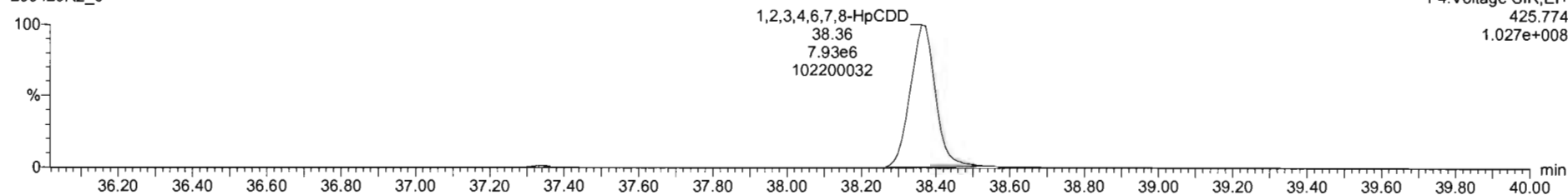
Name: 200429R2\_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2\_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200429R2\_6

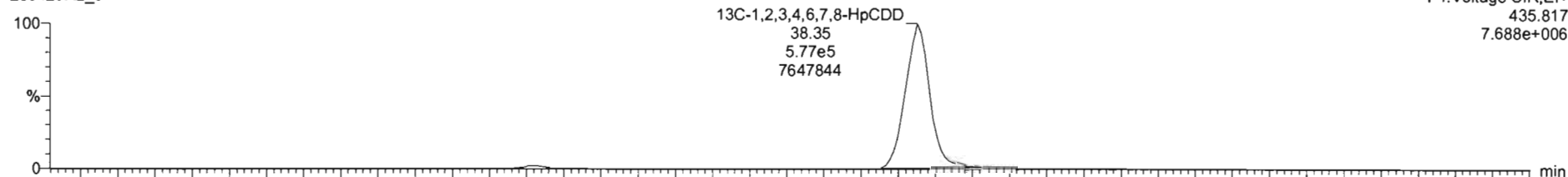


200429R2\_6

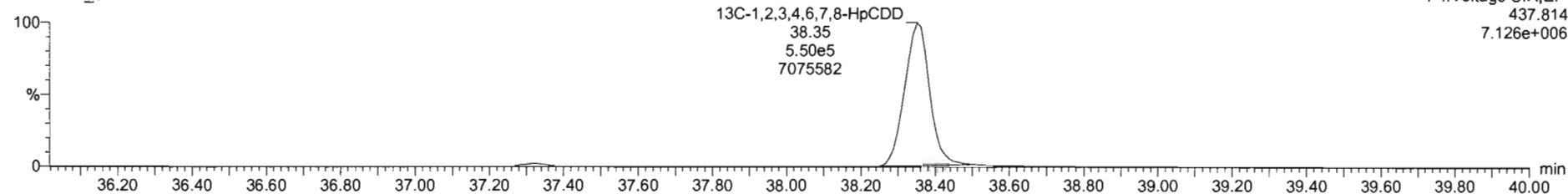


**13C-1,2,3,4,6,7,8-HpCDD**

200429R2\_6



200429R2\_6



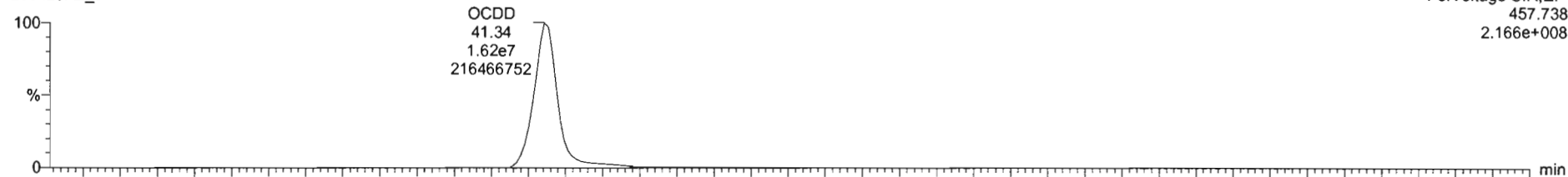
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

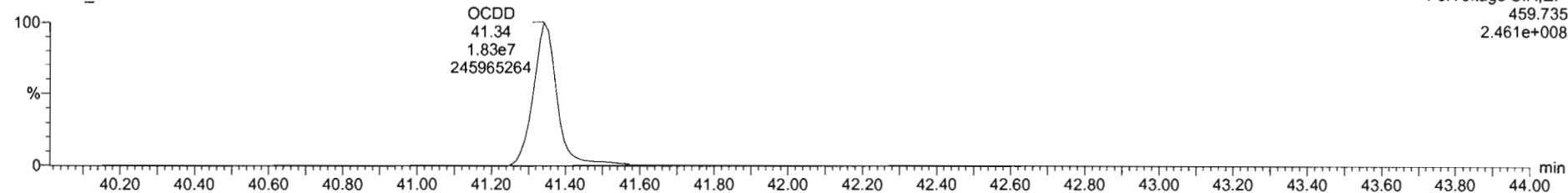
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**OCDD**

200429R2\_6

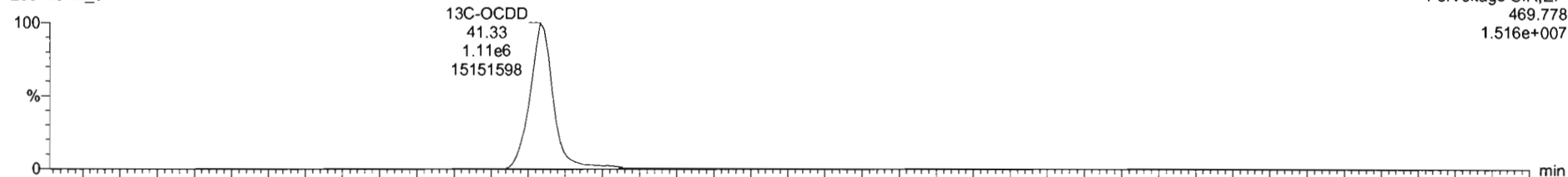


200429R2\_6

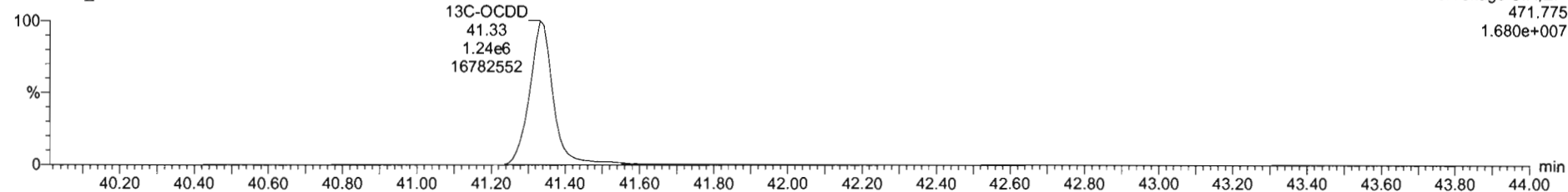


**13C-OCDD**

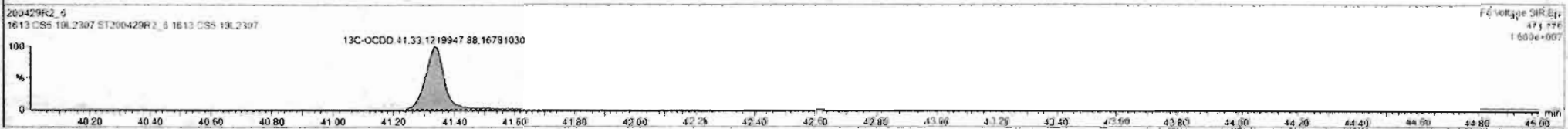
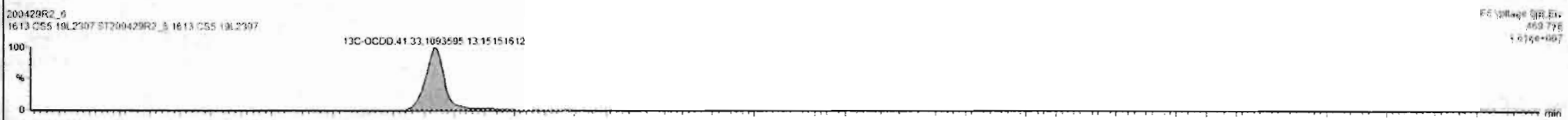
200429R2\_6



200429R2\_6



#	Name	RT	RA	Y/N	Area	IS Area	Std. Conc	%Dev	%RSD	RRF U	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.754	NO	6.0624e6	2.0210e6	300.000	5.4	5.15	0.547	0.0567
2	1,2,3,7,8-PeCDD	31.13	0.634	NO	2.3414e7	1.6142e6	1500.000	2.6	5.51	0.642	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	2,2,7,8-TCDF	25.09	0.753	NO	7.1646e6	2.9106e6	300.000	4.7	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.560	NO	3.5528e7	2.5822e6	1500.000	1.9	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.81	1.542	NO	3.6618e7	2.5077e6	1500.000	0.7	4.85	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.83	1.190	NO	2.3482e7	1.7070e6	1500.000	4.4	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.75	1.189	NO	2.5241e7	1.9123e6	1500.000	0.7	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.190	NO	2.4775e7	1.7418e6	1500.000	2.9	7.60	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.195	NO	1.9613e7	1.4696e6	1500.000	4.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.96	0.992	NO	1.8627e7	1.3725e6	1500.000	5.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.54	0.993	NO	1.4305e7	8.6492e5	1500.000	6.5	6.62	1.01	0.0670
17	OCDF	41.52	0.667	NO	3.3036e7	2.6295e6	3000.000	4.4	7.16	0.802	0.0575



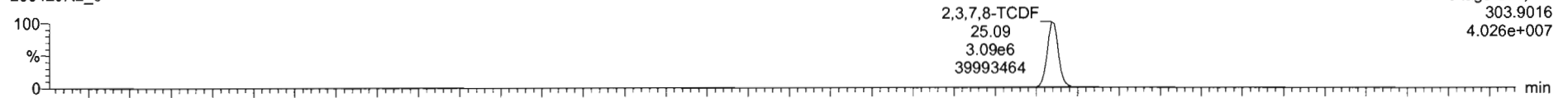
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

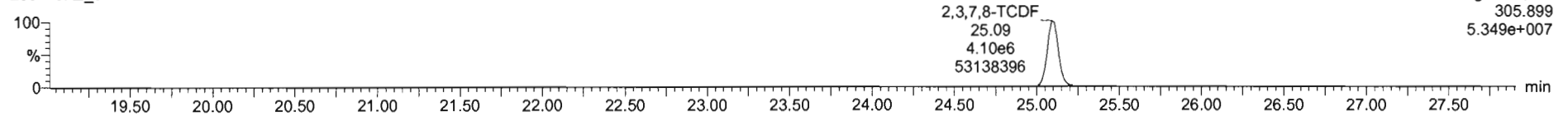
Name: 200429R2\_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2\_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

**2,3,7,8-TCDF**

200429R2\_6

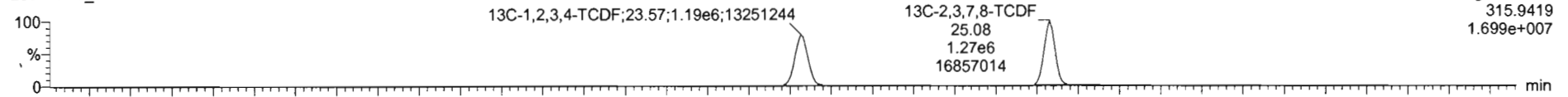


200429R2\_6

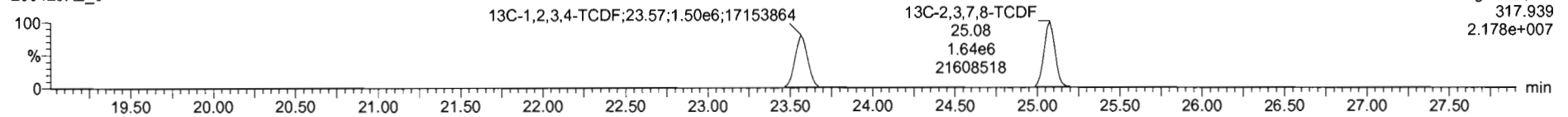


**13C-2,3,7,8-TCDF**

200429R2\_6

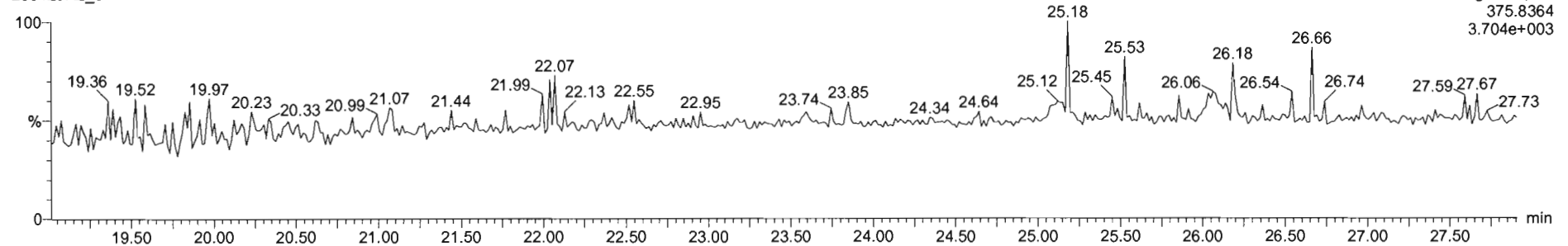


200429R2\_6



**DPE1**

200429R2\_6



Dataset: Untitled

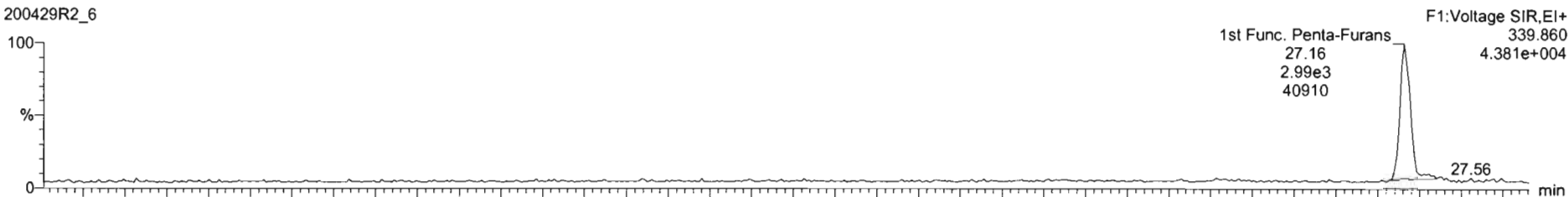
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

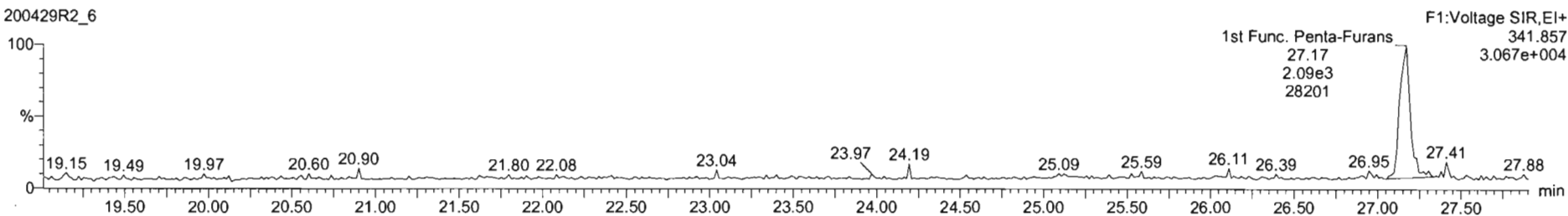
Name: 200429R2\_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2\_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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200429R2\_6

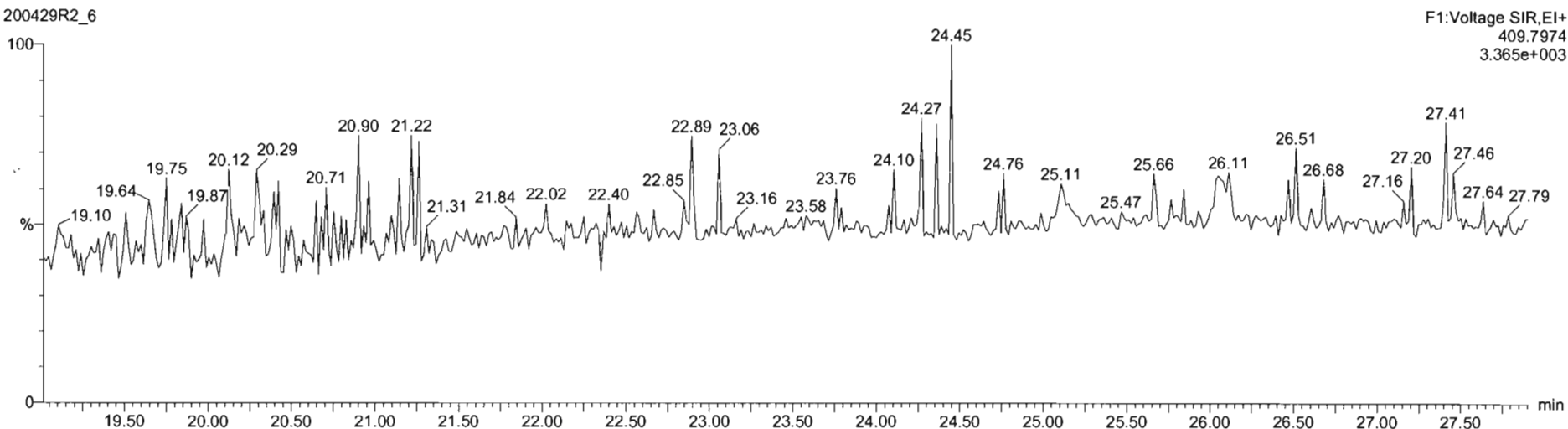


200429R2\_6



DPE6

200429R2\_6



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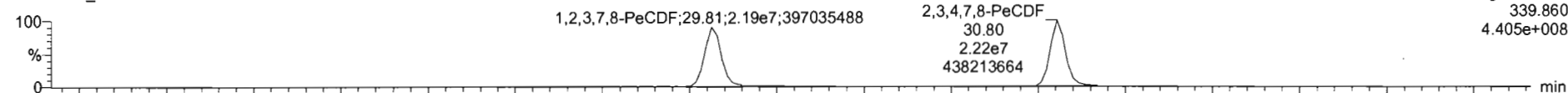
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

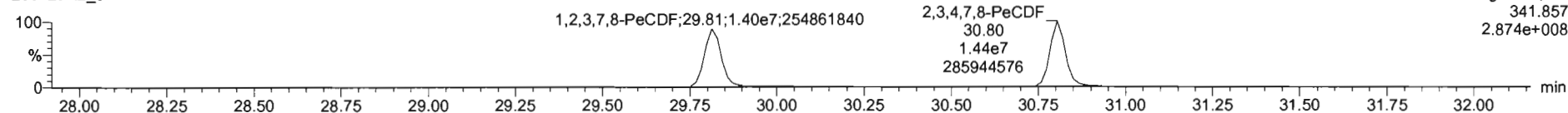
Name: 200429R2\_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2\_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

**1,2,3,7,8-PeCDF**

200429R2\_6

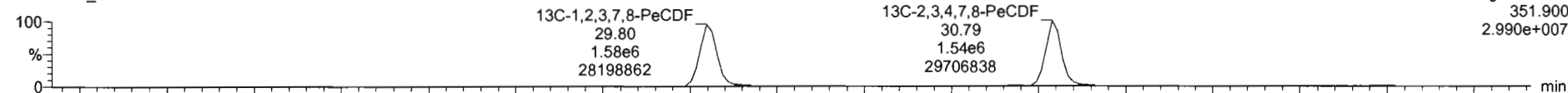


200429R2\_6

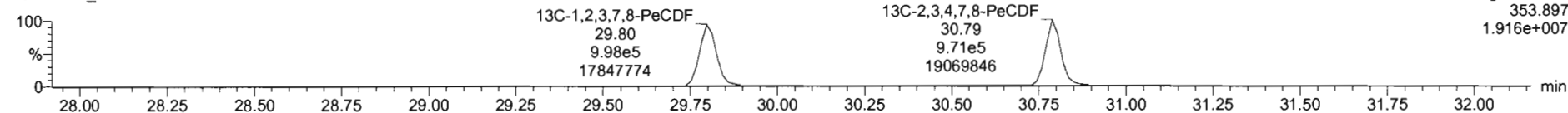


**13C-1,2,3,7,8-PeCDF**

200429R2\_6

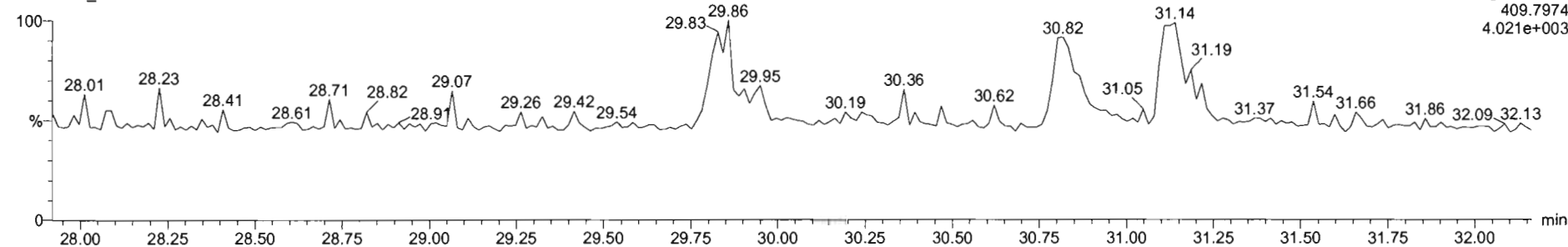


200429R2\_6



**DPE2**

200429R2\_6



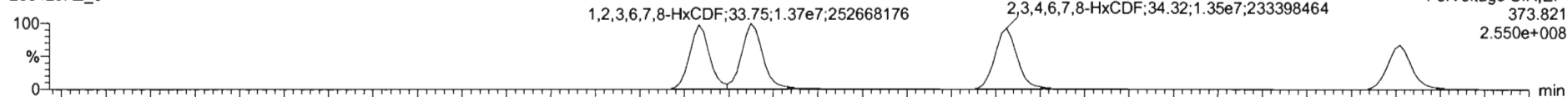
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

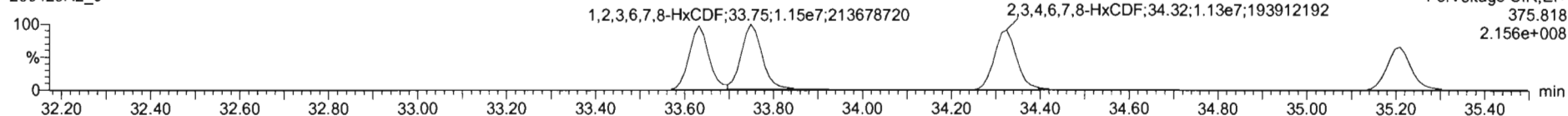
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**1,2,3,4,7,8-HxCDF**

200429R2\_6

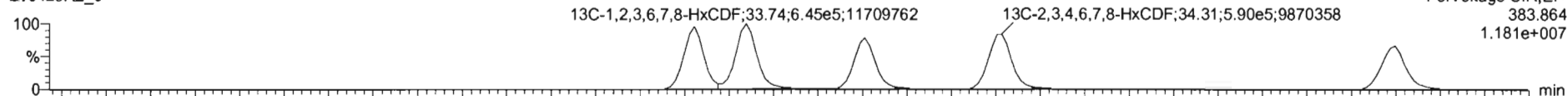


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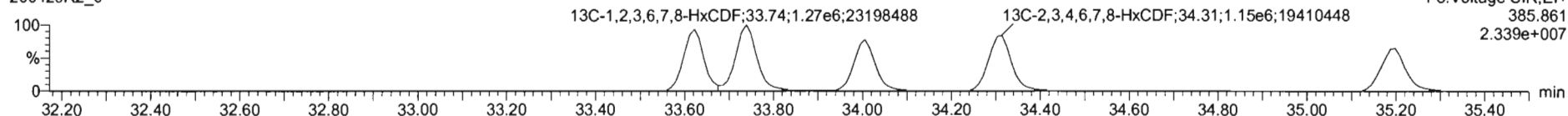


**13C-1,2,3,4,7,8-HxCDF**

200429R2\_6

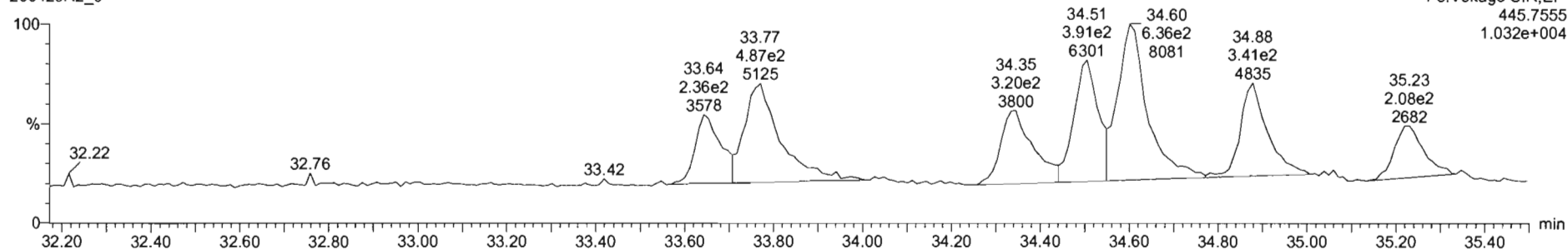


200429R2\_6



**DPE3**

200429R2\_6



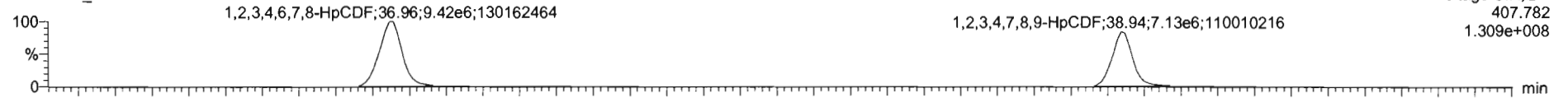
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

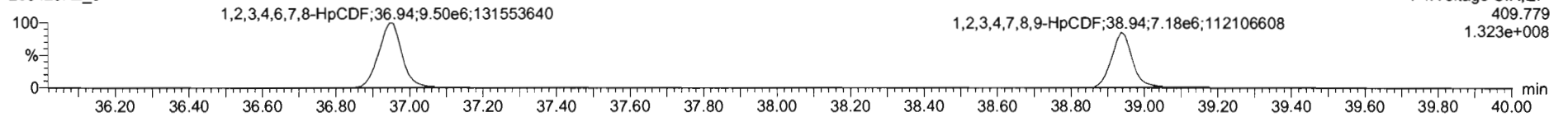
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**1,2,3,4,6,7,8-HpCDF**

200429R2\_6

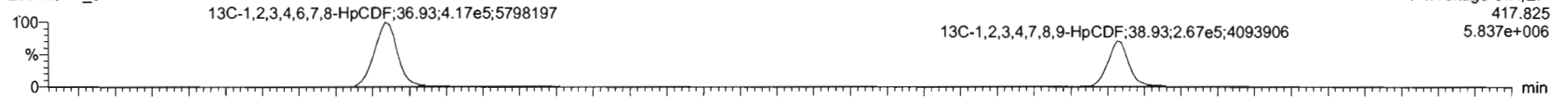


200429R2\_6

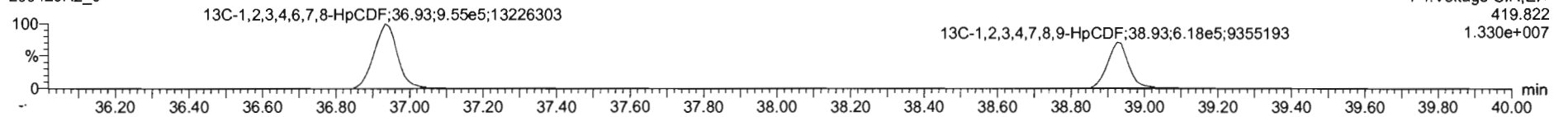


**13C-1,2,3,4,6,7,8-HpCDF**

200429R2\_6

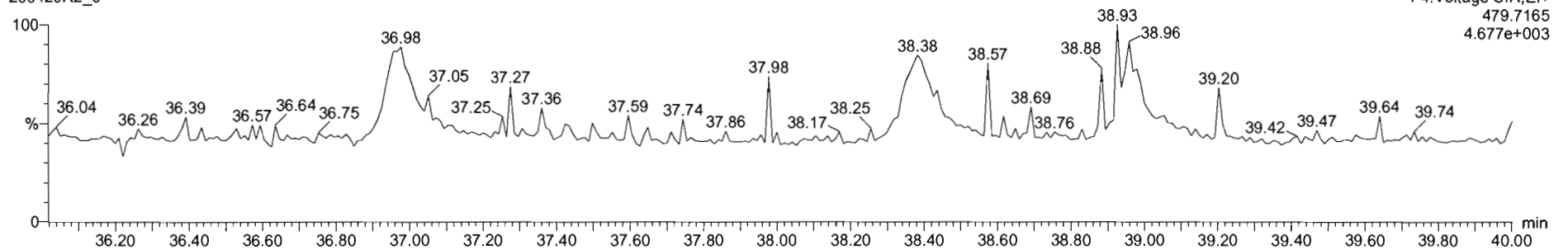


200429R2\_6



**DPE4**

200429R2\_6

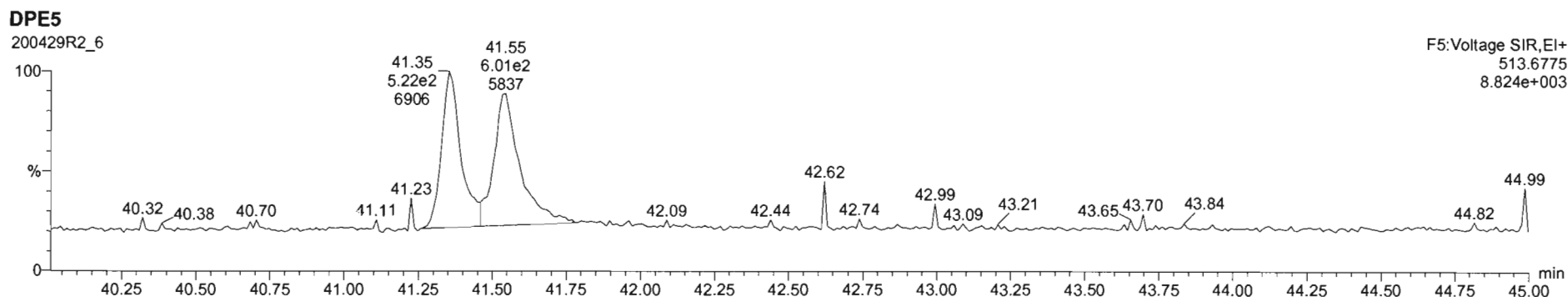
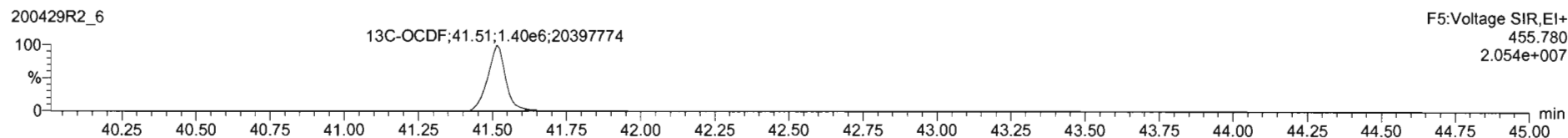
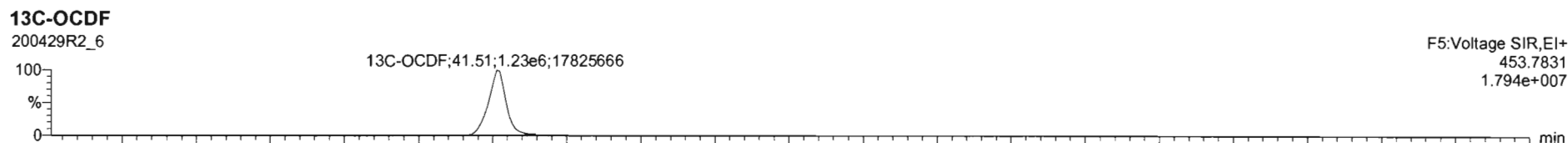
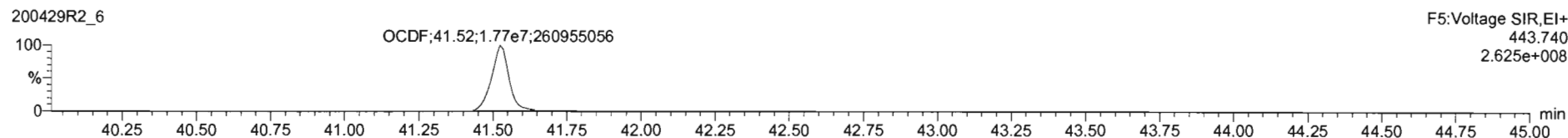
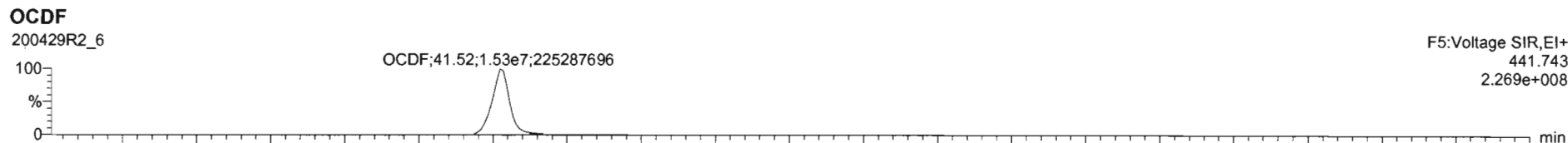




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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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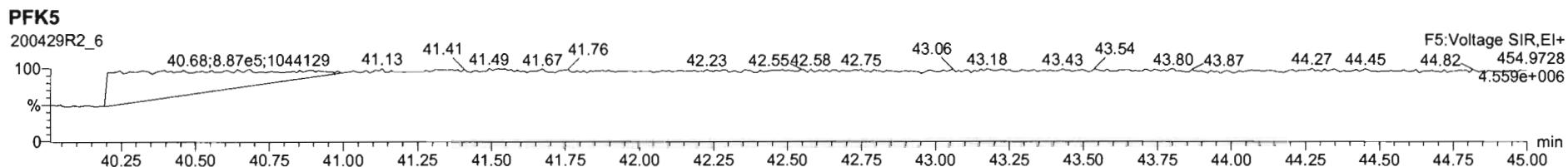
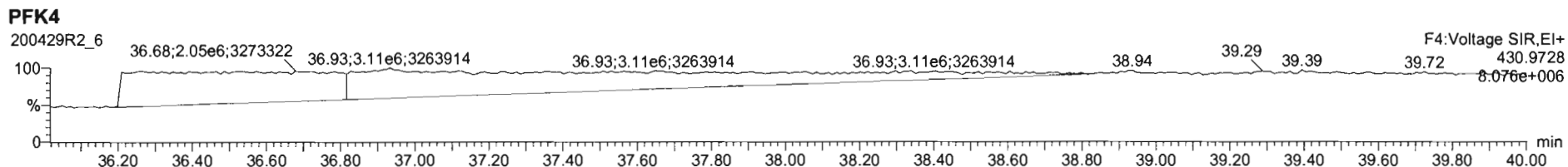
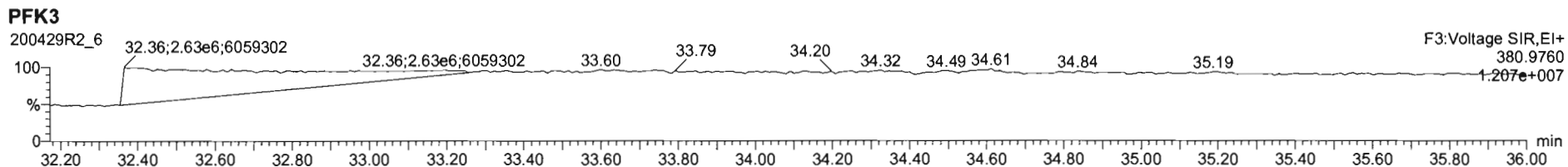
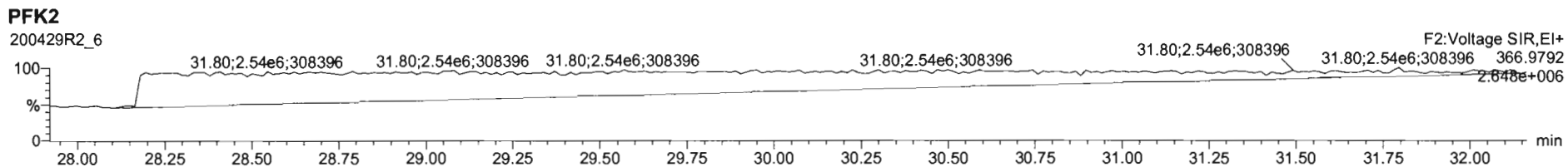
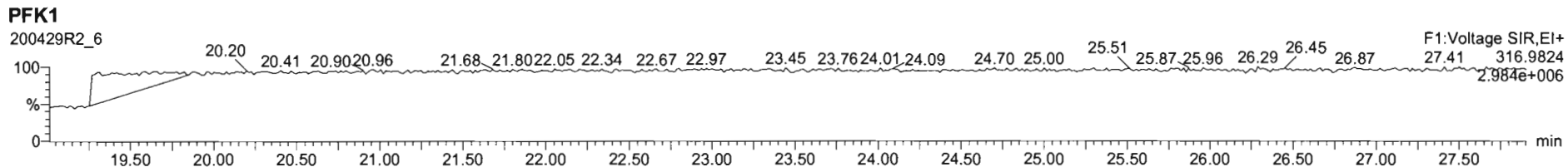


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Name: 200429R2\_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2\_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307



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	

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-8.qld

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Printed: Thursday, April 30, 2020 8:36:35 AM Pacific Daylight Time

Name: 200429R2\_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	8.59e5	0.43	NO	0.771	1.000	36.948	36.94	1.086	1.086	92.960	93.0	0.284	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.17e5	0.43	NO	0.482	1.000	38.959	38.95	1.145	1.145	89.503	89.5	0.455	
34	34 13C-OCDF	1.33e6	0.88	NO	0.669	1.000	41.530	41.53	1.221	1.221	165.58	82.8	0.146	
35	35 37Cl-2,3,7,8-TCDD	1.58e5			1.10	1.000	26.076	26.07	1.028	1.027	9.8763	98.8	0.0151	
36	36 13C-1,2,3,4-TCDD	1.45e6	0.81	NO	1.00	1.000	25.350	25.38	1.000	1.000	100.00	100	0.111	
37	37 13C-1,2,3,4-TCDF	2.36e6	0.79	NO	1.00	1.000	23.560	23.59	1.000	1.000	100.00	100	0.139	
38	38 13C-1,2,3,4,6,9-HxCDF	1.20e6	0.51	NO	1.00	1.000	34.000	34.02	1.000	1.000	100.00	100	0.213	

Dataset: Untitled

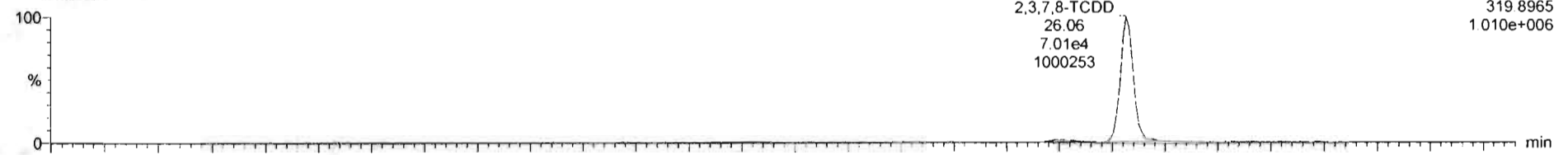
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Printed: Thursday, April 30, 2020 8:38:30 AM Pacific Daylight Time

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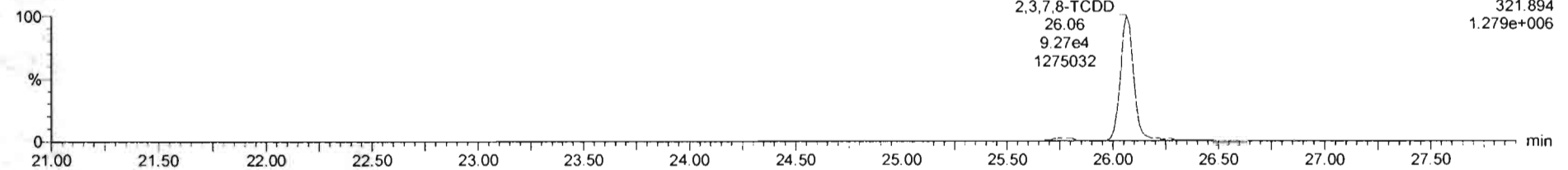
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**2,3,7,8-TCDD**

200429R2\_8

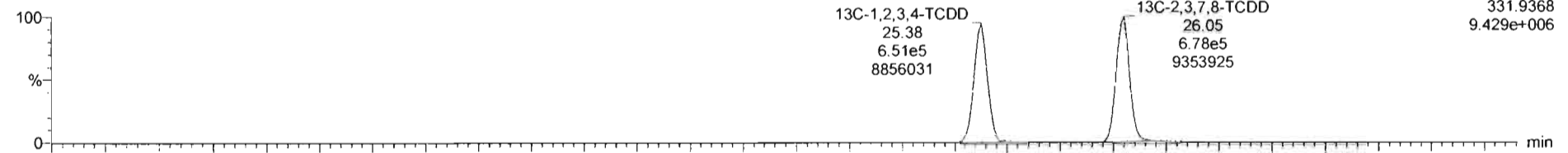


200429R2\_8

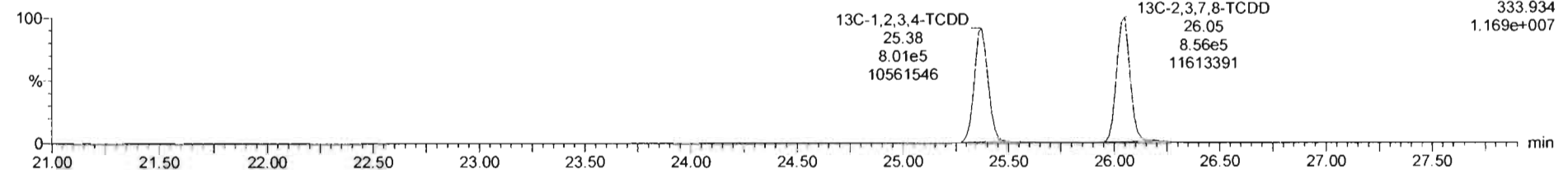


**13C-2,3,7,8-TCDD**

200429R2\_8



200429R2\_8



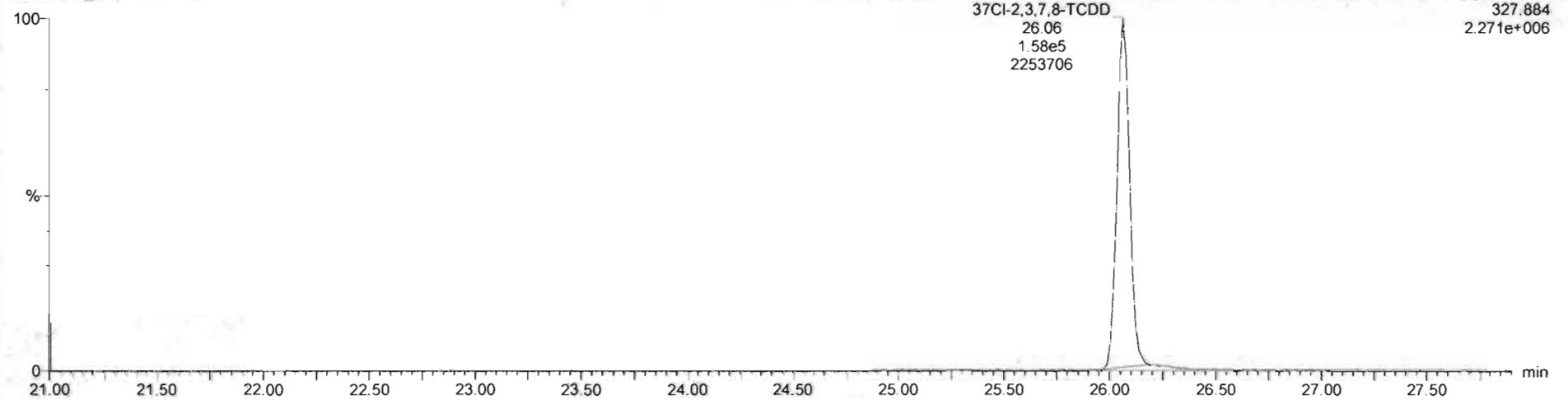
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Name: 200429R2\_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

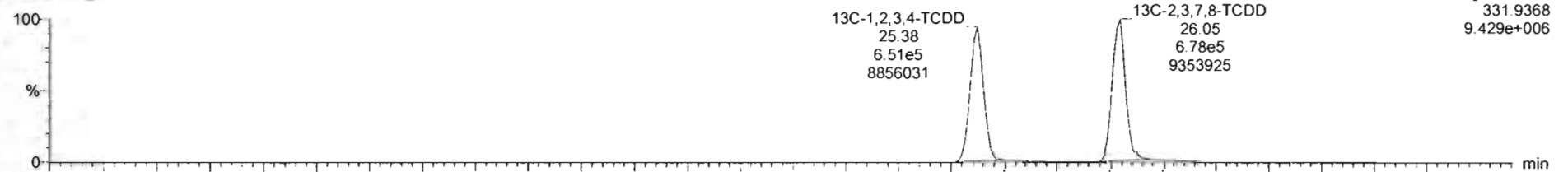
**37Cl-2,3,7,8-TCDD**

200429R2\_8

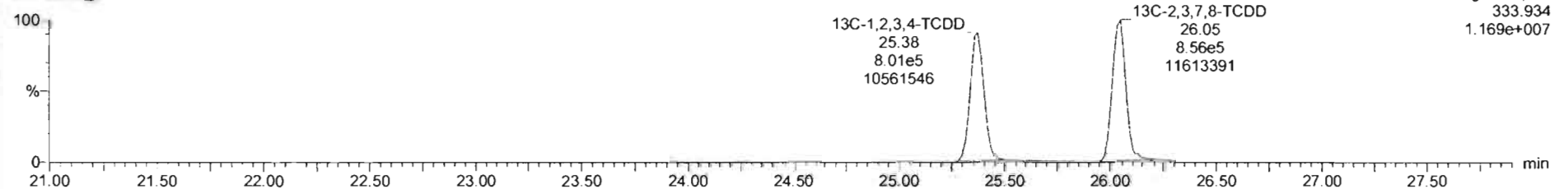


**13C-1,2,3,4-TCDD**

200429R2\_8



200429R2\_8



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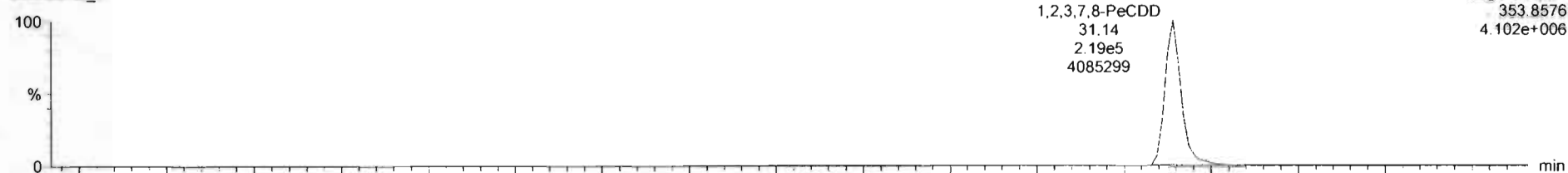
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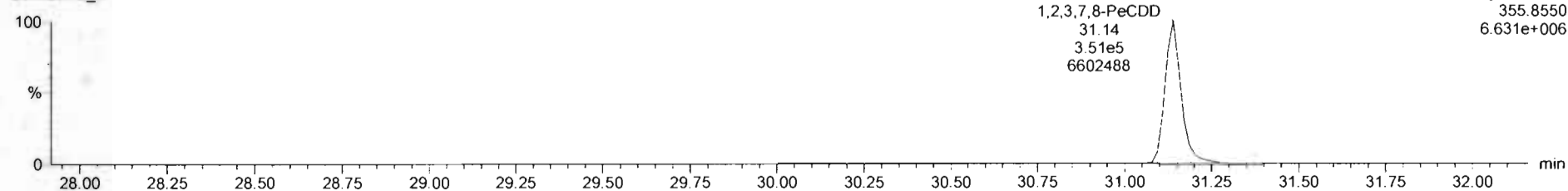
Name: 200429R2\_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

**1,2,3,7,8-PeCDD**

200429R2\_8

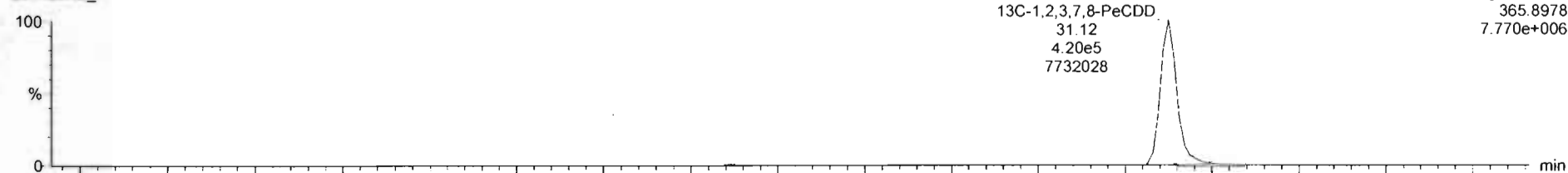


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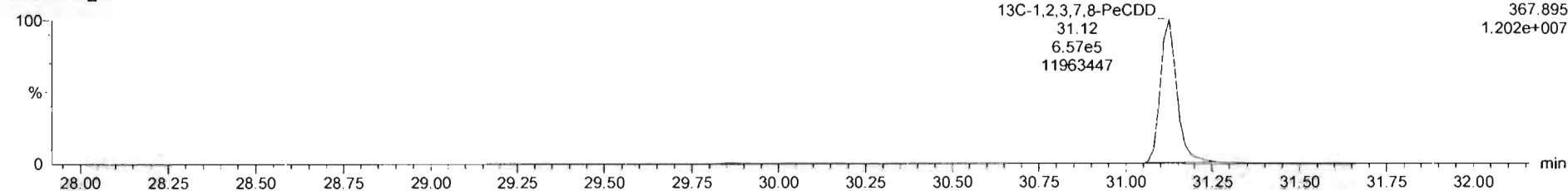


**13C-1,2,3,7,8-PeCDD**

200429R2\_8



200429R2\_8



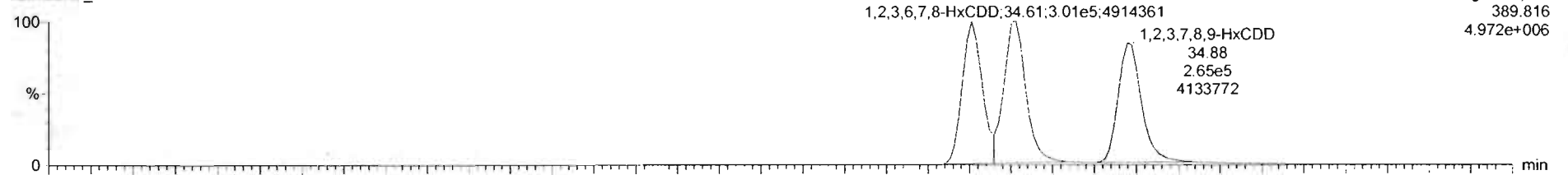
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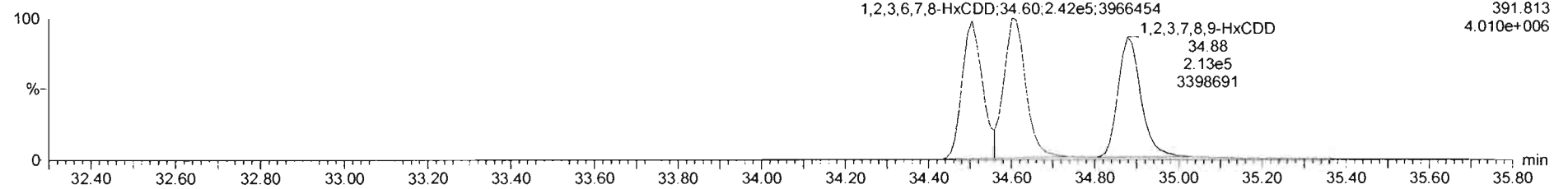
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**1,2,3,4,7,8-HxCDD**

200429R2\_8

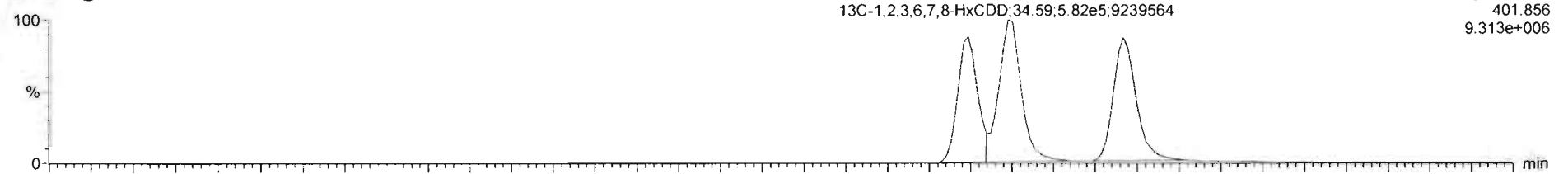


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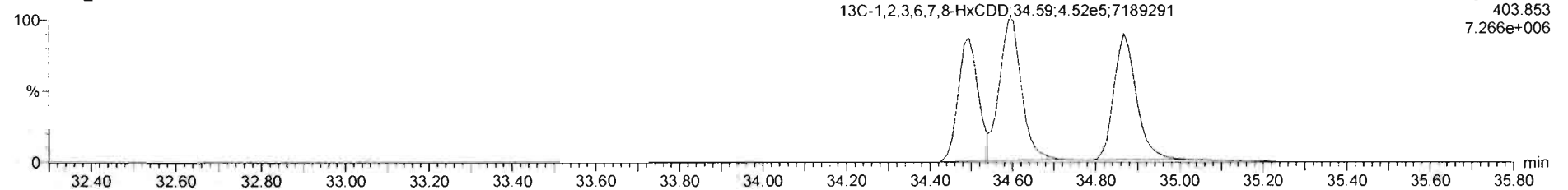


**13C-1,2,3,4,7,8-HxCDD**

200429R2\_8



200429R2\_8





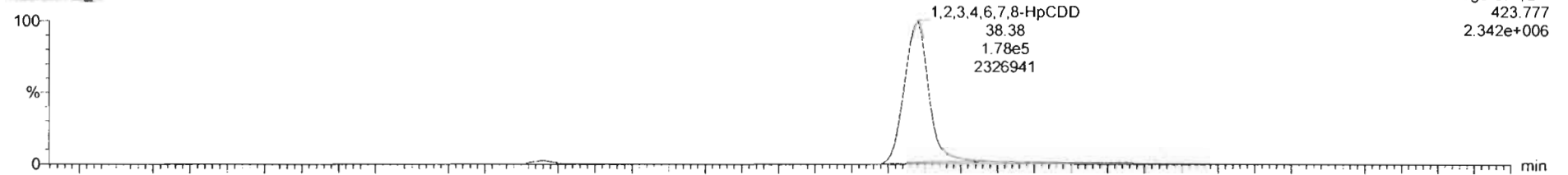
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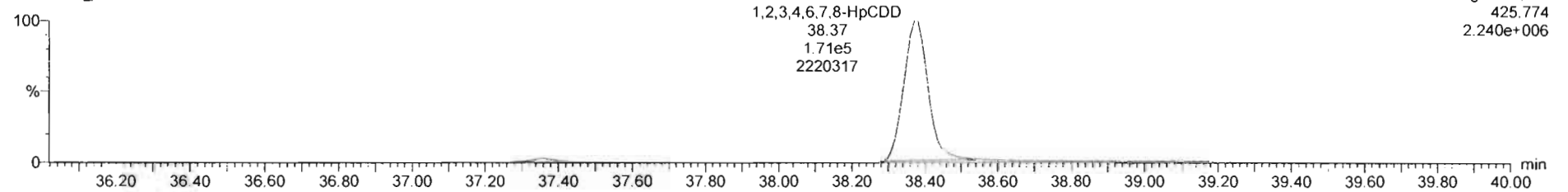
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**1,2,3,4,6,7,8-HpCDD**

200429R2\_8

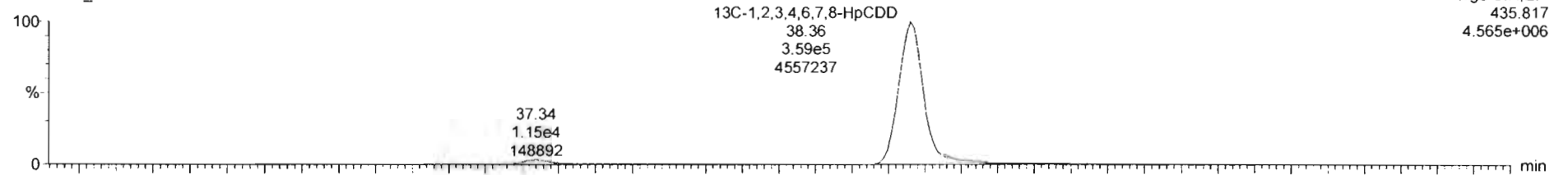


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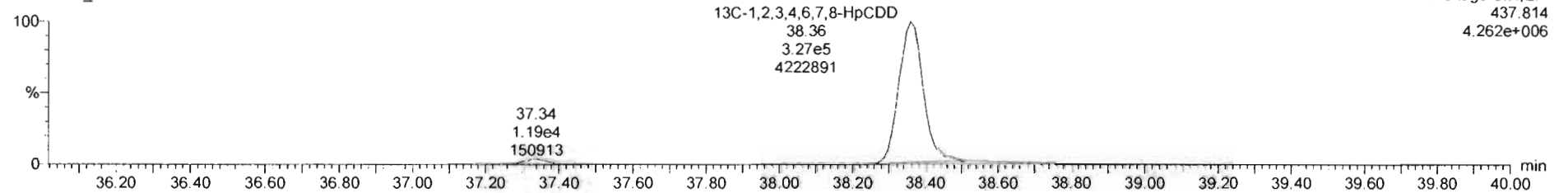


**13C-1,2,3,4,6,7,8-HpCDD**

200429R2\_8



200429R2\_8

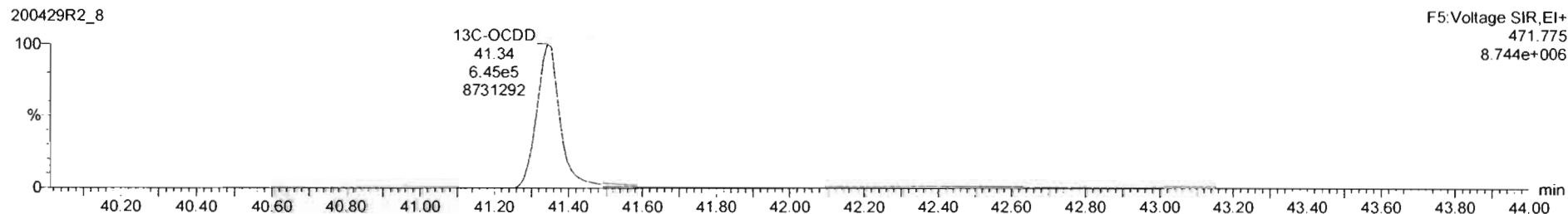
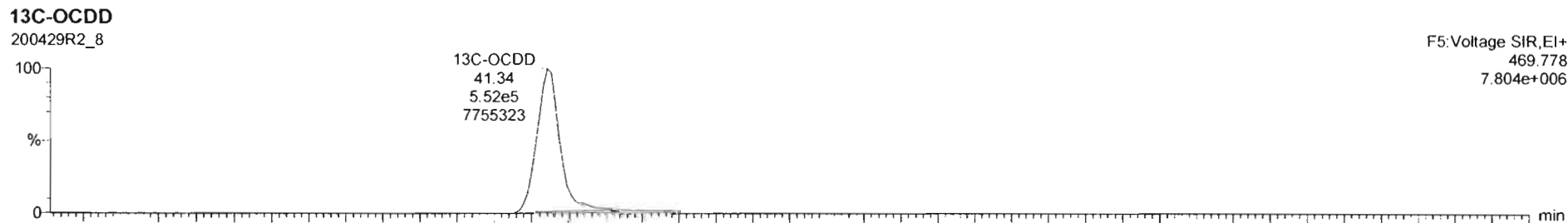
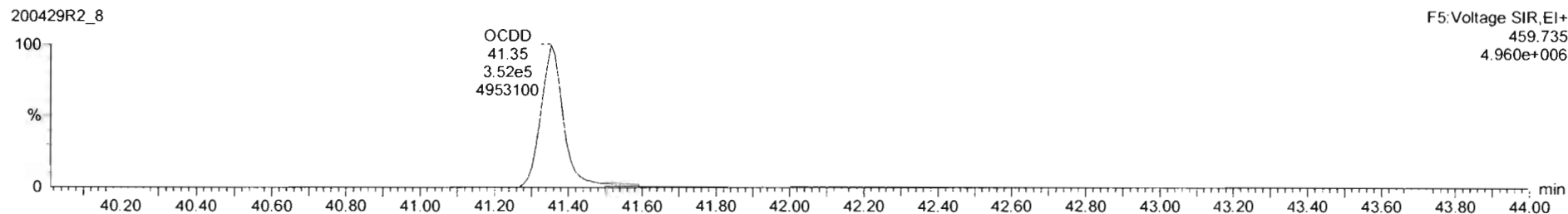
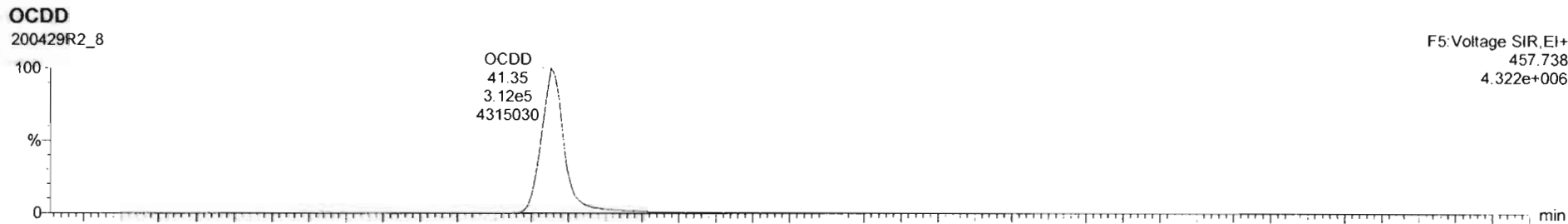


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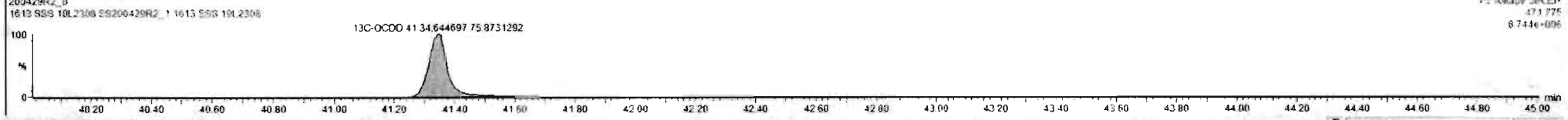
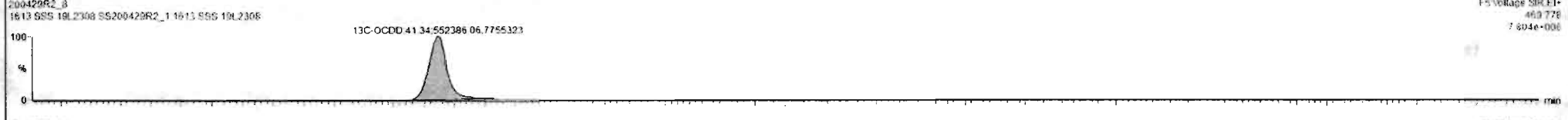
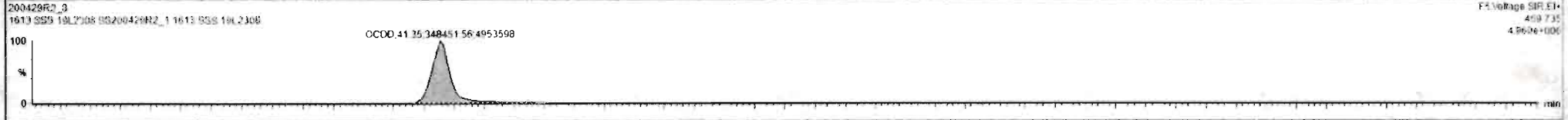
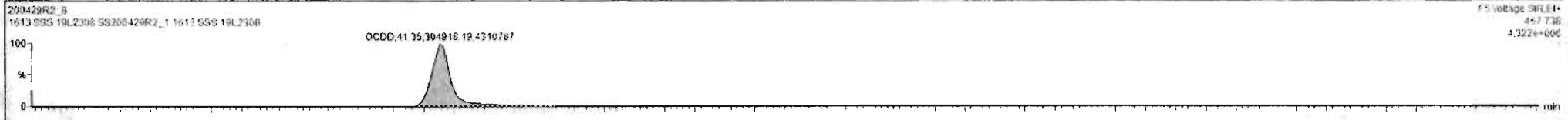
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Name: 200429R2\_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308



Name	Resp	RA	inj	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	112	0.0427	11.2
2 1,2,3,7,8-PeCDD	5.70e5	0.83	NO	0.9425	1.000	31.14	1.000	56.1	112	0.0577	56.1
3 1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	56.0	116	0.102	56.0
4 1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.61	1.001	57.4	115	0.105	57.4
5 1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.9149	1.000	34.88	1.000	58.2	116	0.120	58.2
6 1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8919	1.000	36.38	1.001	56.7	113	0.145	56.7
7 OCDD	6.53e5	0.55	NO	0.9325	1.000	41.35	1.000	117	117	0.107	117
8 2,3,7,8-TCDF	1.99e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	112	0.0306	11.2
9 1,2,3,7,8-PeCDF	5.00e5	1.54	NO	0.9102	1.000	29.83	1.001	55.8	112	0.0810	55.8
10 2,3,4,7,8-PeCDF	1.00e6	1.53	NO	0.9664	1.000	30.82	1.000	60.8	122	0.0765	60.8
11 1,2,3,4,7,8-HxCDF	5.51e5	1.22	NO	0.8782	1.000	33.64	1.000	55.9	112	0.109	55.9
12 1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.78	1.000	56.5	113	0.107	56.5
13 2,3,4,6,7,8-HxCDF	5.78e5	1.19	NO	0.9217	1.000	34.33	1.000	56.2	112	0.118	56.2
14 1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.8542	1.000	35.22	1.000	55.3	111	0.152	55.3
15 1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.8712	1.000	36.97	1.001	54.9	110	0.153	54.9
16 1,2,3,4,7,8,9-HxCDF	2.99e5	0.98	NO	1.0116	1.000	36.95	1.000	57.2	114	0.204	57.2
17 OCDF	0.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	115	0.158	115



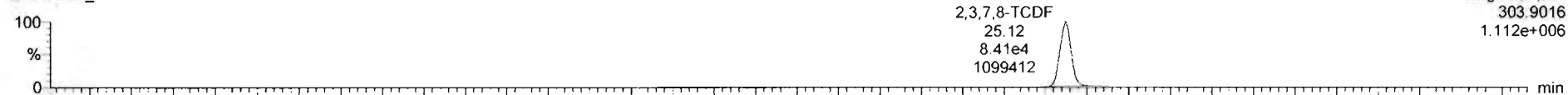
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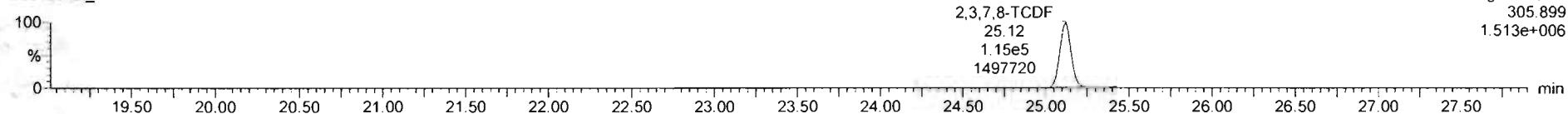
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**2,3,7,8-TCDF**

200429R2\_8

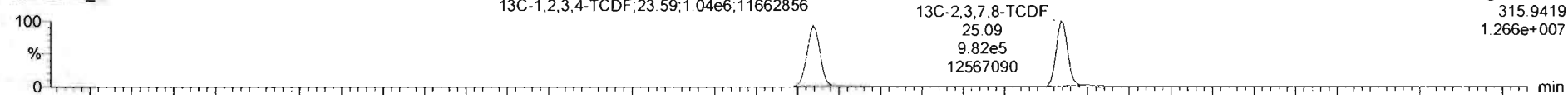


200429R2\_8

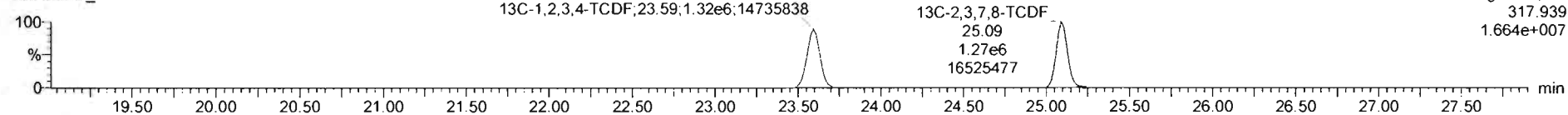


**13C-2,3,7,8-TCDF**

200429R2\_8

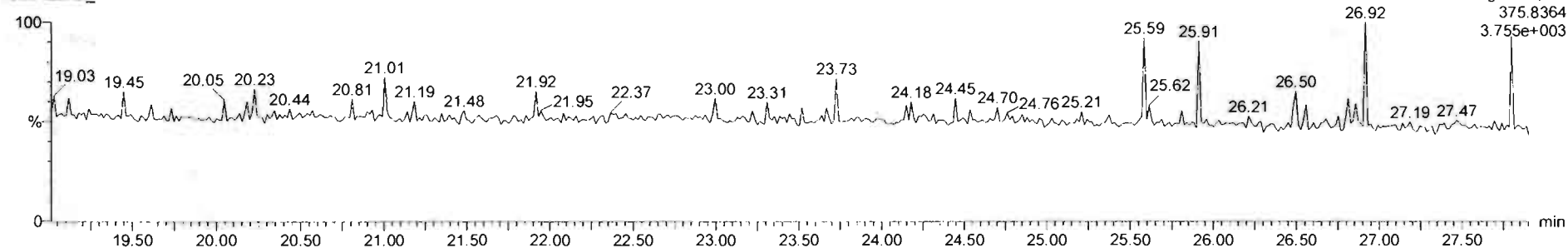


200429R2\_8



**DPE1**

200429R2\_8



Dataset: Untitled

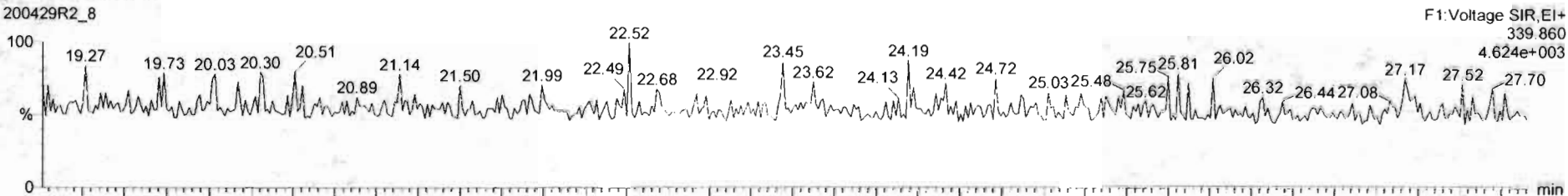
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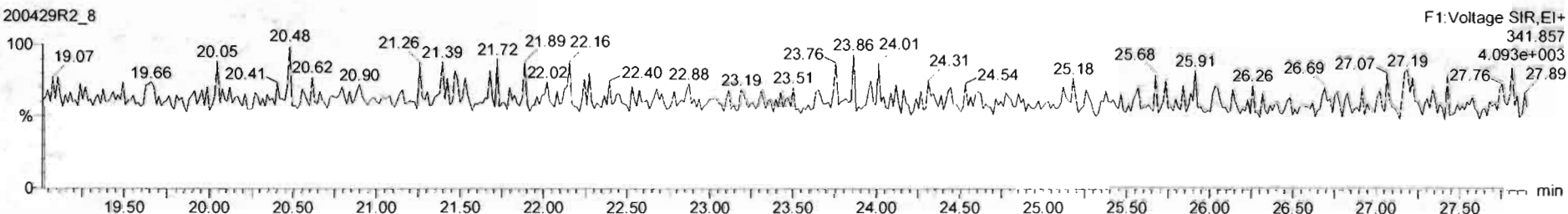
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200429R2\_8

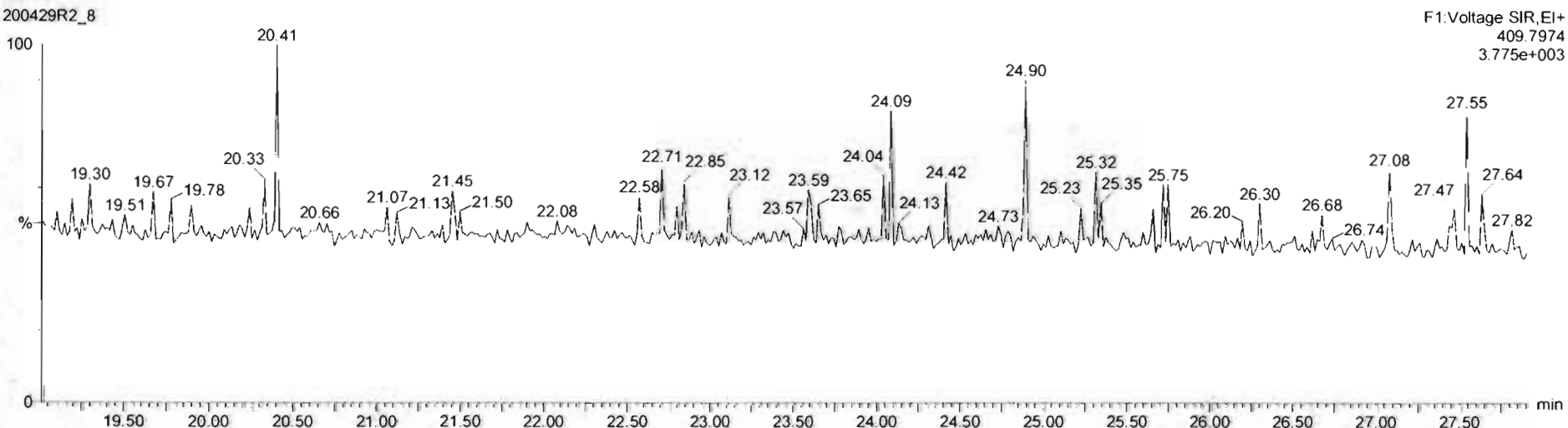


200429R2\_8



DPE6

200429R2\_8



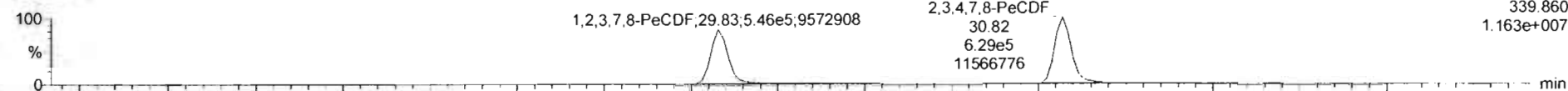
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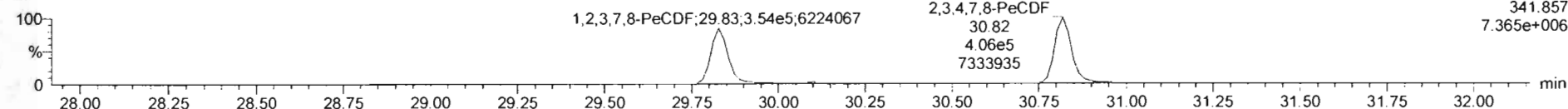
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**1,2,3,7,8-PeCDF**

200429R2\_8



200429R2\_8

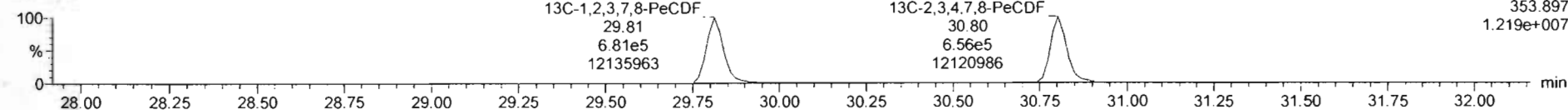


**13C-1,2,3,7,8-PeCDF**

200429R2\_8

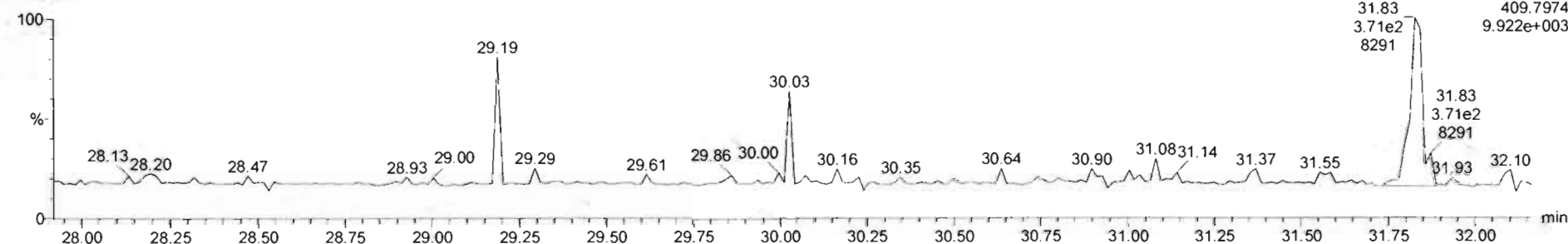


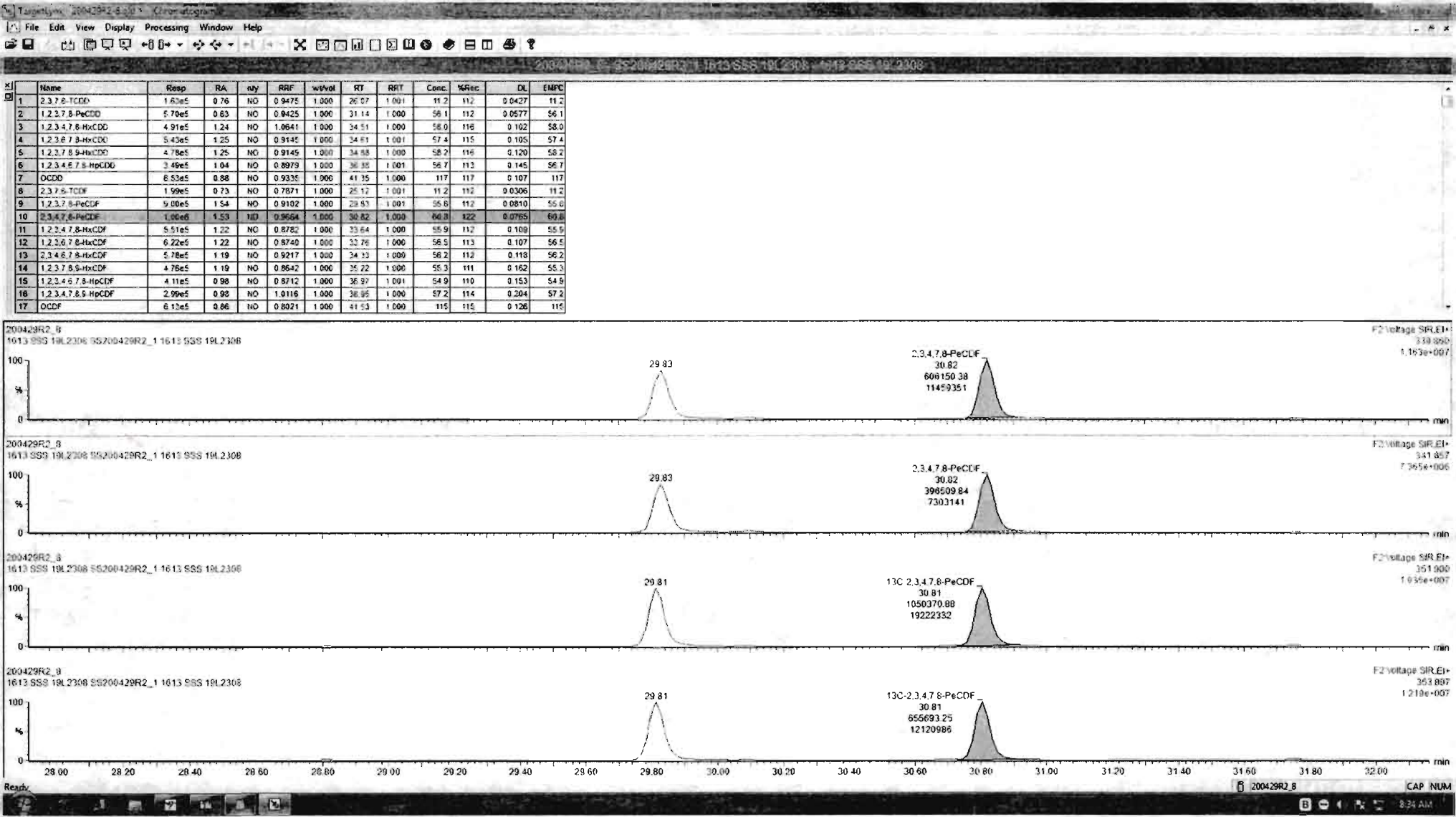
200429R2\_8



**DPE2**

200429R2\_8







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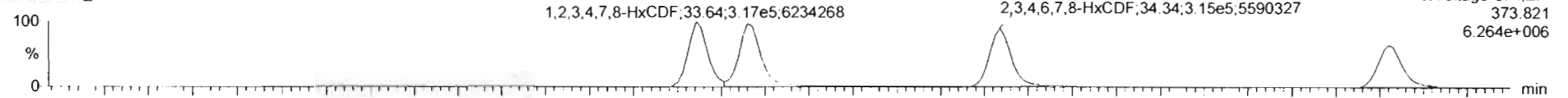
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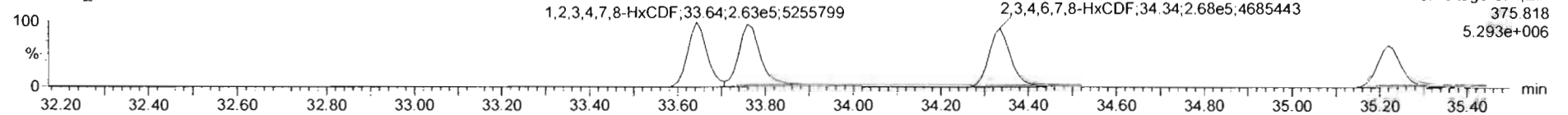
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**1,2,3,4,7,8-HxCDF**

200429R2\_8

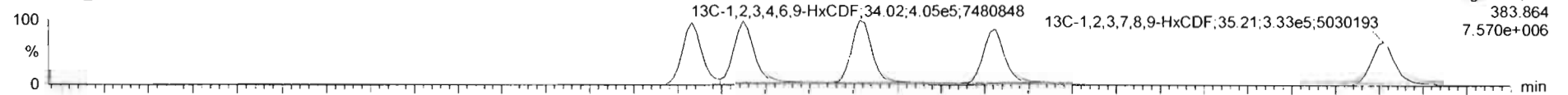


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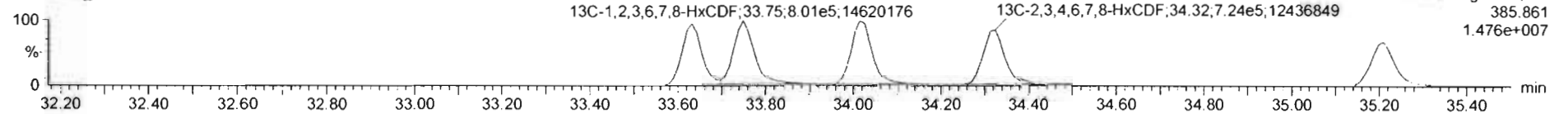


**13C-1,2,3,4,7,8-HxCDF**

200429R2\_8

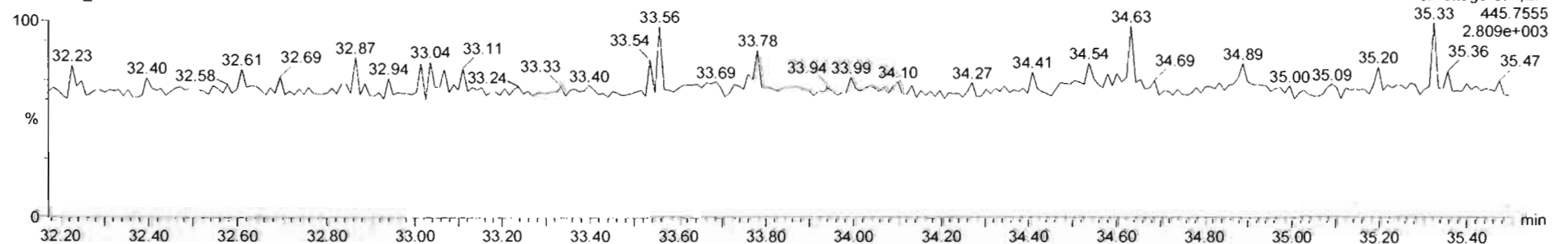


200429R2\_8



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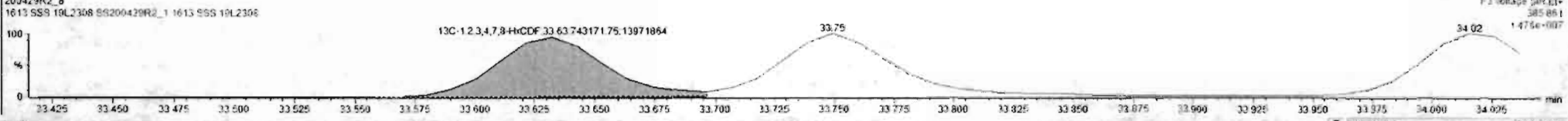
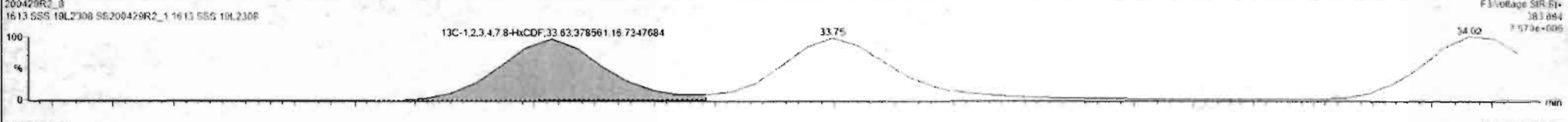
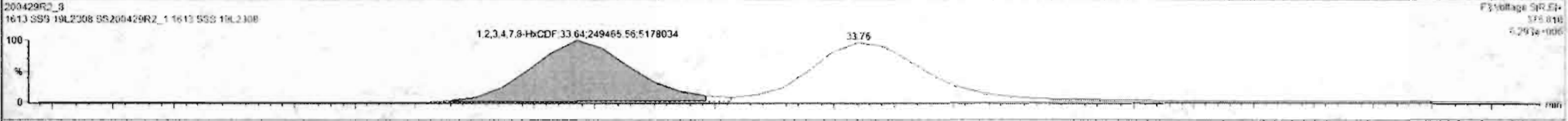
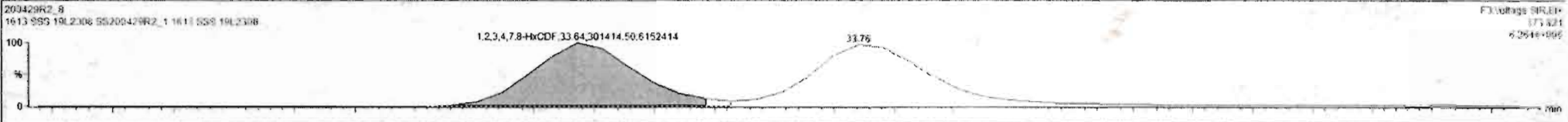
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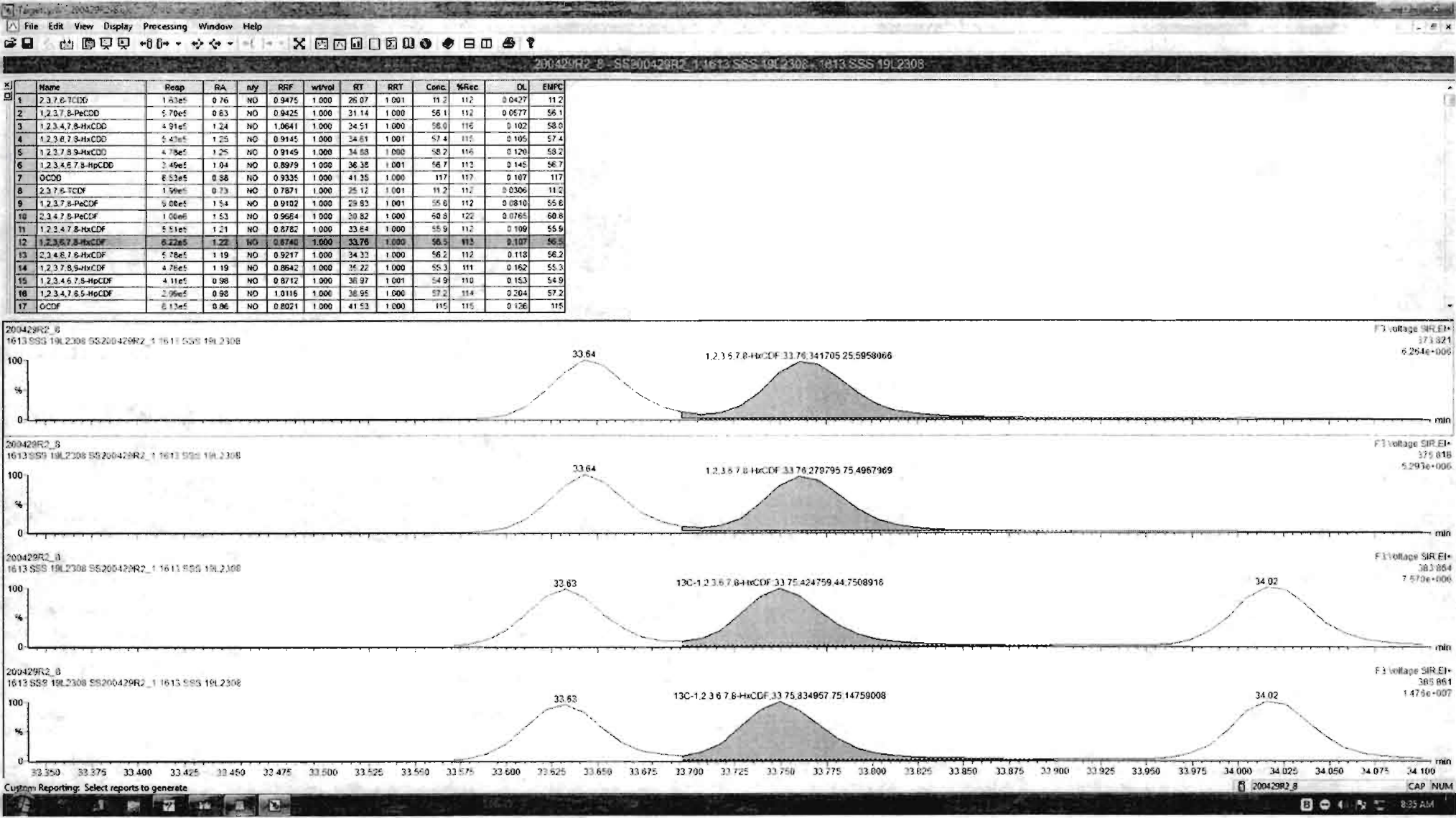




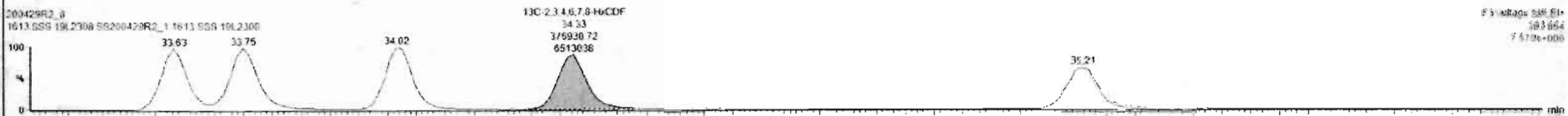
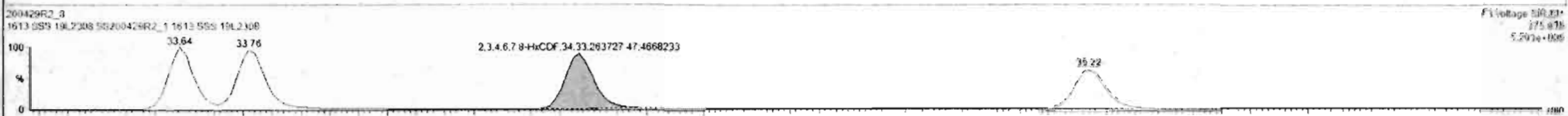
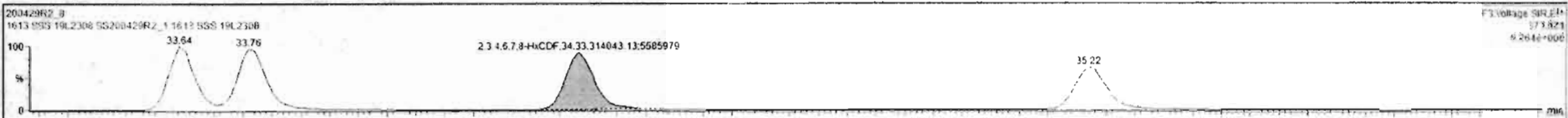
200429R2\_8 - SS200429R2\_1 1613 SSS 19L2308 - 1613 SSS 19L2308

#	Name	Resp	RA	xy	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDF	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	112	0.0427	11.2
2	1,2,3,7,8-PeCDF	5.79e5	0.83	NO	0.9425	1.000	31.14	1.000	56.1	112	0.0577	56.1
3	1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	58.0	116	0.102	58.0
4	1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.01	1.001	57.4	115	0.105	57.4
5	1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.9149	1.000	34.08	1.000	58.2	116	0.120	58.2
6	1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8979	1.000	36.36	1.001	56.7	113	0.145	56.7
7	OCDD	6.53e5	0.88	NO	0.9335	1.000	41.35	1.000	117	117	0.107	117
8	2,3,7,8-TCDF	1.99e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	112	0.0306	11.2
9	1,2,3,7,8-PeCDF	9.08e5	1.54	NO	0.9192	1.000	29.93	1.001	55.6	112	0.0810	55.6
10	2,3,4,7,8-PeCDF	1.00e5	1.53	NO	0.9664	1.000	30.82	1.000	60.8	122	0.0765	60.8
11	1,2,3,4,7,8-HxCDF	5.51e5	1.31	NO	0.6782	1.000	33.64	1.000	55.9	112	0.109	55.9
12	1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.76	1.000	56.5	113	0.107	56.5
13	2,3,4,6,7,8-HxCDF	5.78e5	1.19	NO	0.9217	1.000	34.33	1.000	56.2	112	0.118	56.2
14	1,2,3,7,8,9-HxCDF	4.78e5	1.19	NO	0.8642	1.000	35.22	1.000	55.3	111	0.162	55.3
15	1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.8712	1.000	36.97	1.001	54.9	110	0.153	54.9
16	1,2,3,4,7,8,9-HpCDF	2.96e5	0.98	NO	1.0116	1.000	36.95	1.000	57.2	114	0.204	57.2
17	OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	115	0.126	115

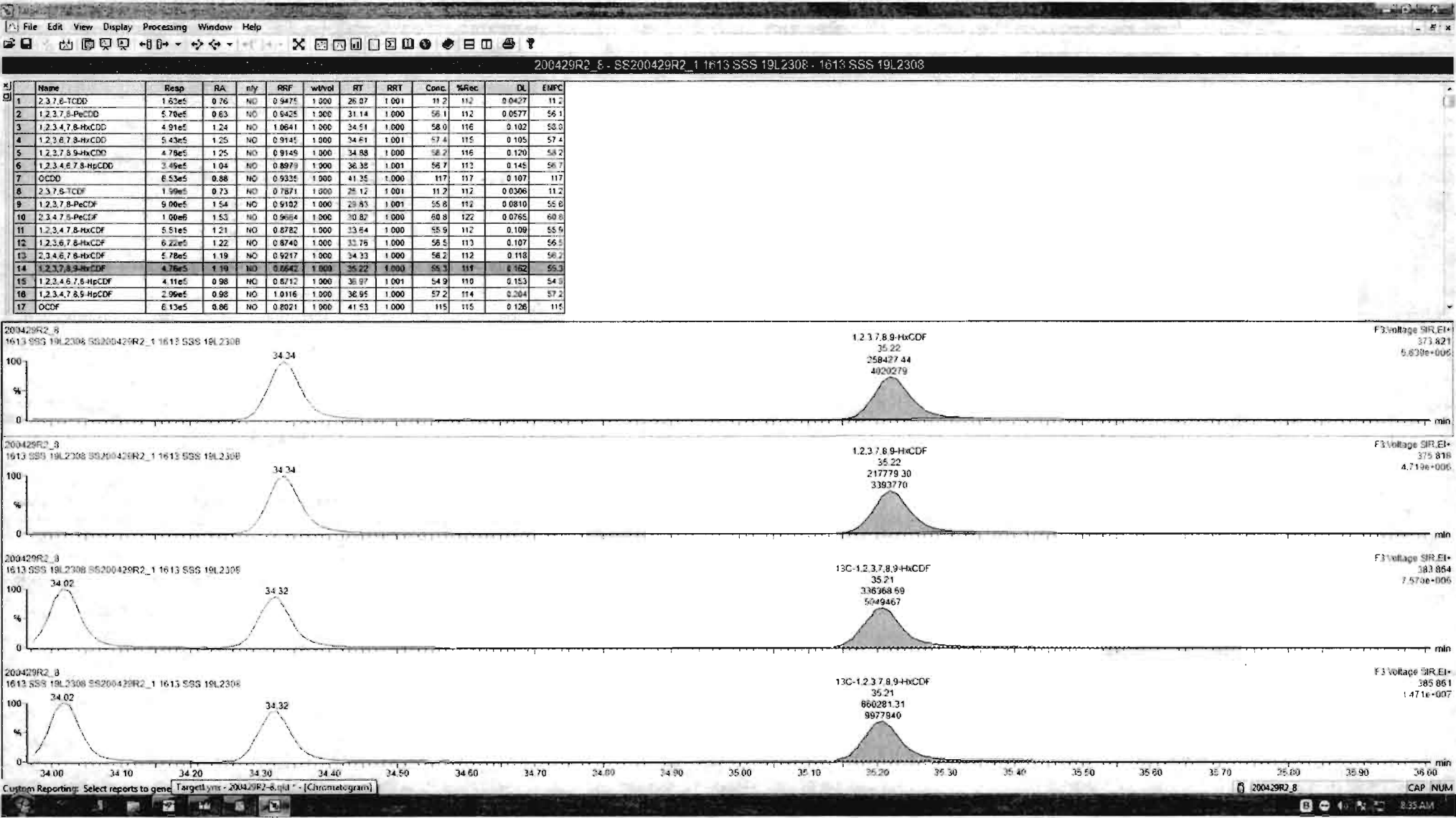




#	Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	11.2	0.0427	11.2
2	1,2,3,7,8-PeCDD	5.70e5	0.83	NO	0.9425	1.000	31.14	1.000	56.1	11.2	0.0577	56.1
3	1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	58.0	11.6	0.102	58.0
4	1,2,3,6,7,8-HxCDD	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-HxCDF	2.96e5	0.98	NO	1.0116	1.000	36.95	1.000	57.2	11.4	0.204	57.2
17	OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	11.5	0.126	115



Custom Reporting: Select reports to generate





Dataset: Untitled

Last Altered: Thursday, April 30, 2020 8:38:20 AM Pacific Daylight Time

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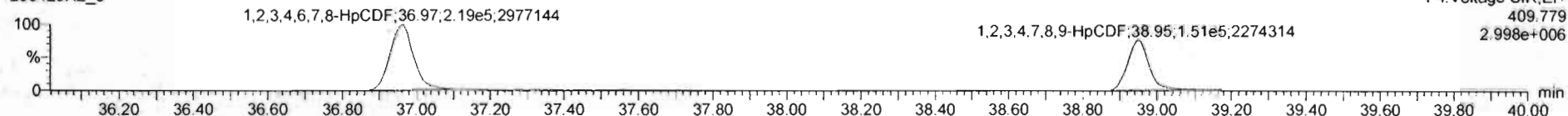
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**1,2,3,4,6,7,8-HpCDF**

200429R2\_8

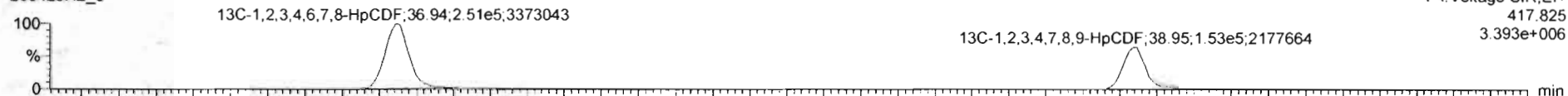


200429R2\_8

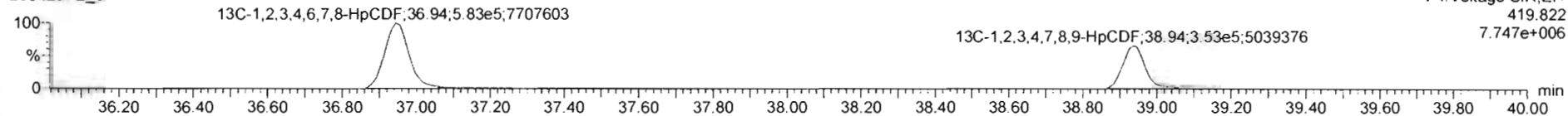


**13C-1,2,3,4,6,7,8-HpCDF**

200429R2\_8

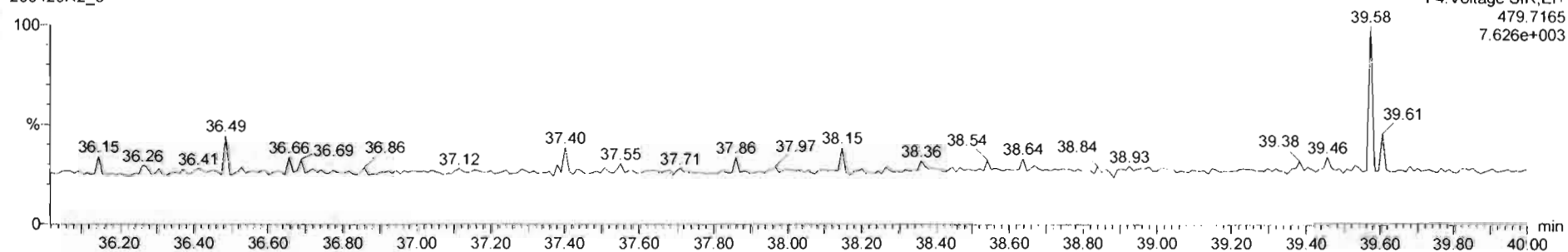


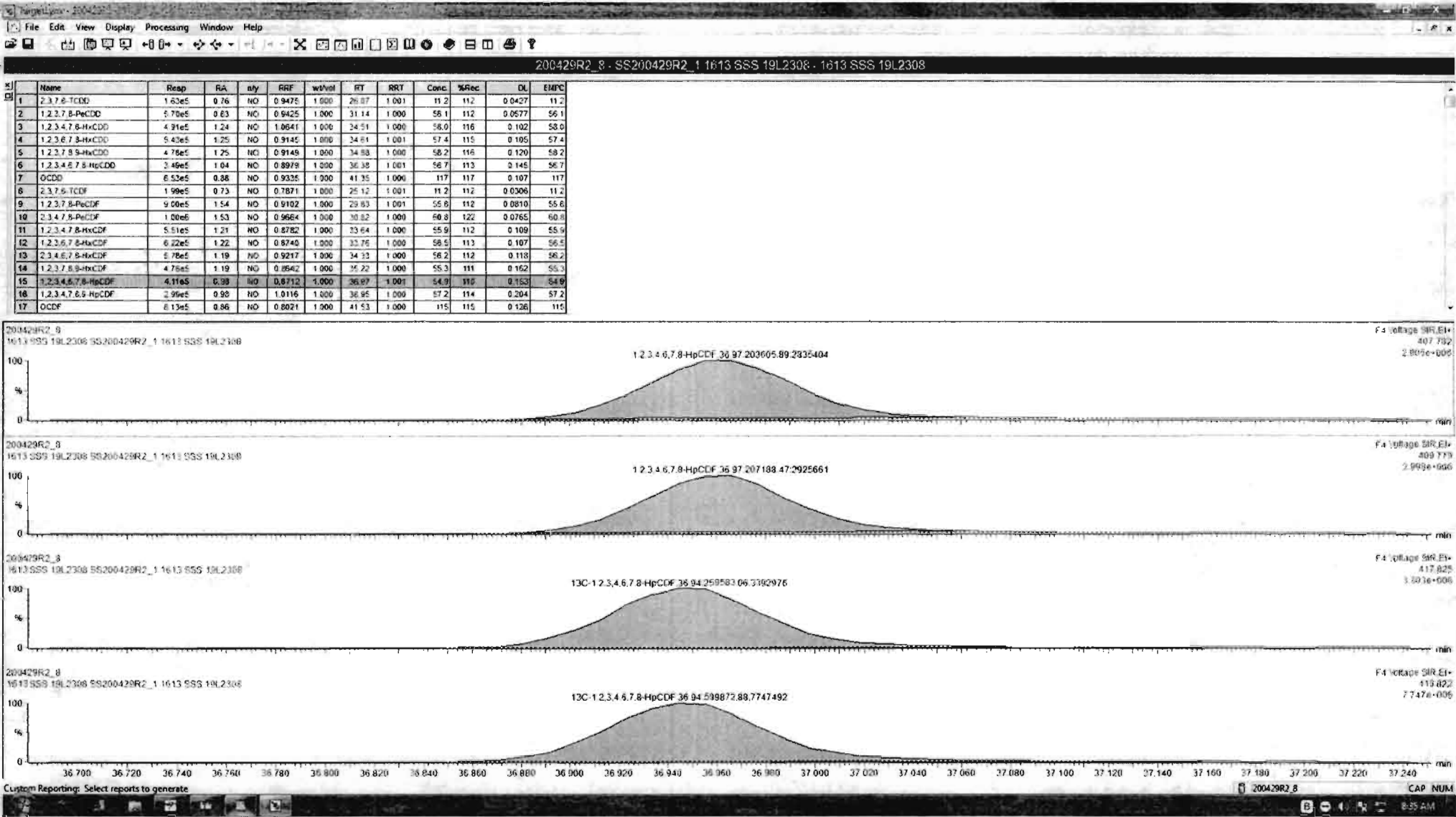
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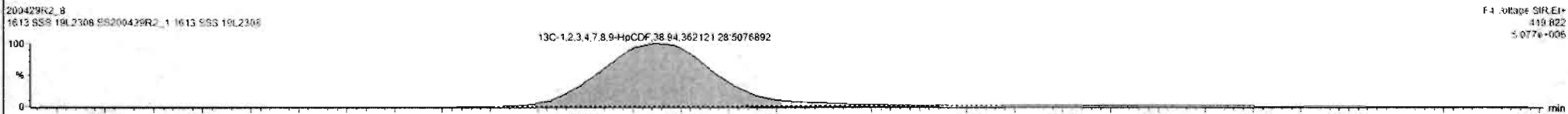
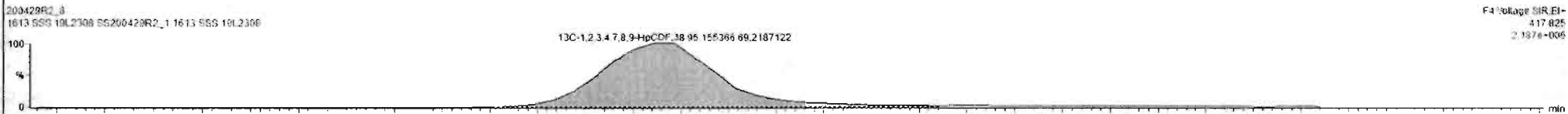
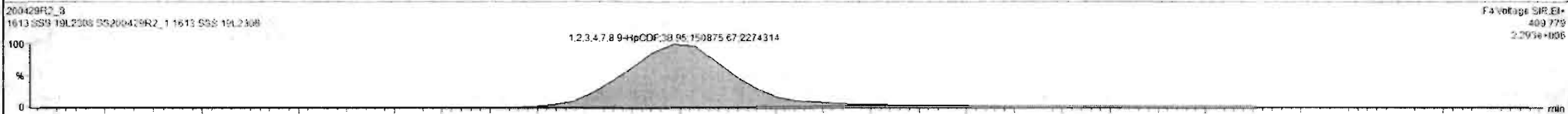
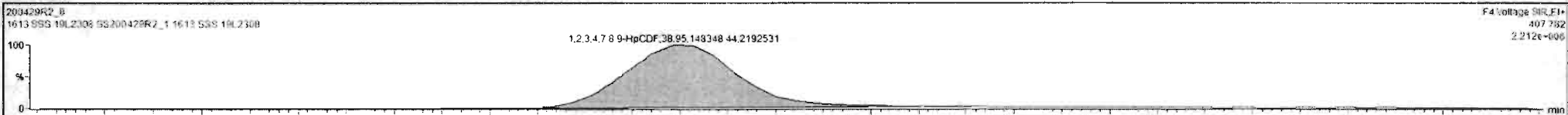
**DPE4**

200429R2\_8





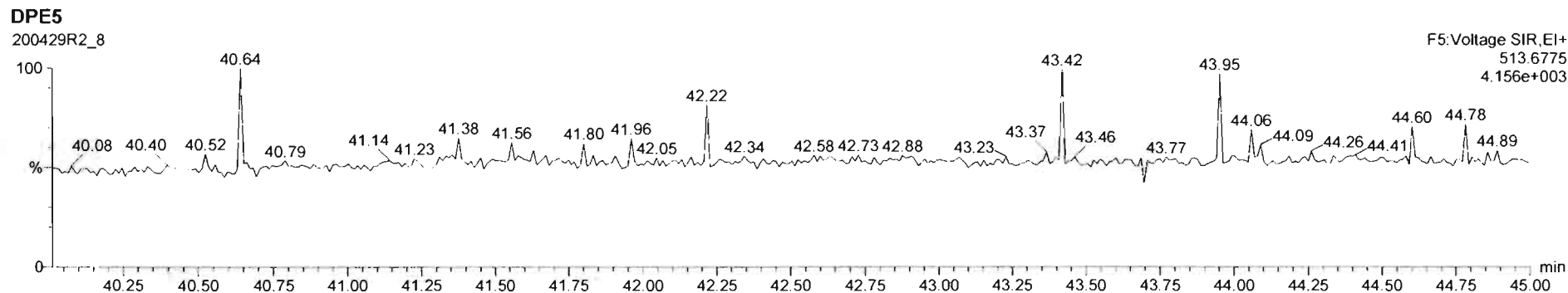
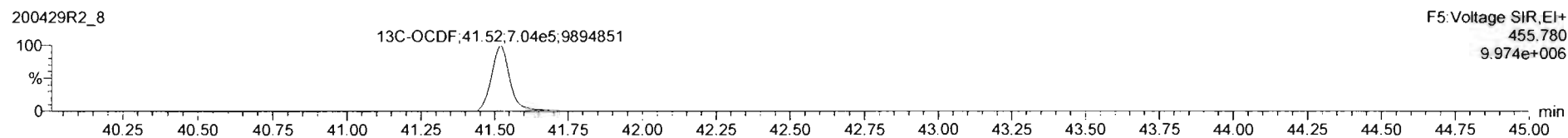
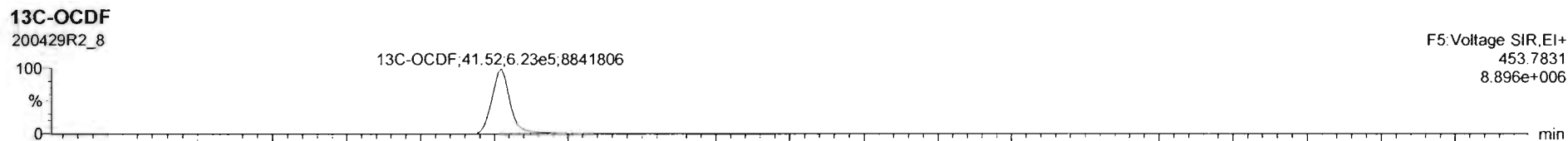
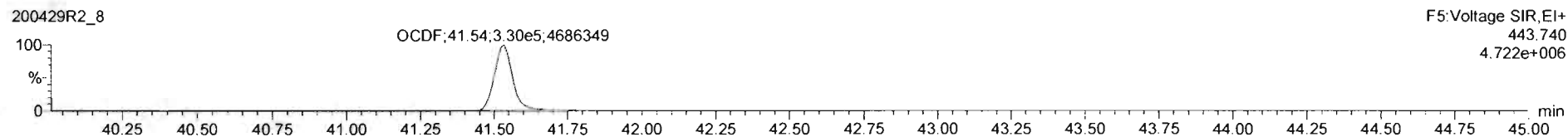
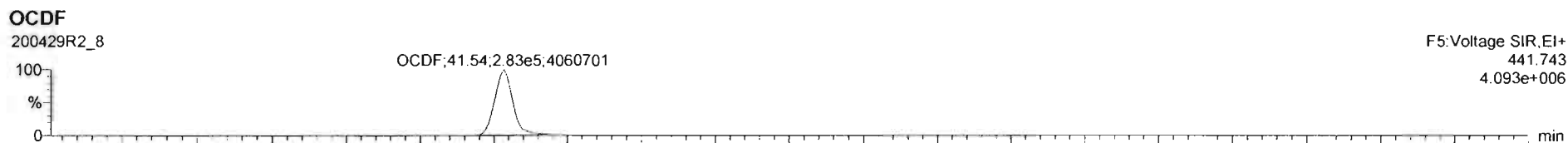
Name	Resp	RA	dy	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	11.2	0.0427	11.2
2 1,2,3,7,8-PeCDD	4.70e5	0.83	NO	0.9425	1.000	31.14	1.000	58.1	11.2	0.0577	56.1
3 1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	58.0	11.6	0.102	58.0
4 1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.61	1.001	57.4	11.5	0.105	57.4
5 1,2,3,7,8,9-HxCDD	4.76e5	1.25	NO	0.9145	1.000	34.68	1.000	58.2	11.6	0.120	58.2
6 1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8979	1.000	36.35	1.001	56.7	11.2	0.145	56.7
7 OCDD	6.53e5	0.88	NO	0.9335	1.000	41.35	1.000	117	11.7	0.107	117
8 2,3,7,8-TCDF	1.99e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	11.2	0.0306	11.2
9 1,2,3,7,8-PeCDF	9.00e5	1.54	NO	0.9102	1.000	29.63	1.001	55.6	11.2	0.0810	55.6
10 2,3,4,7,8-PeCDF	1.00e5	1.53	NO	0.9664	1.000	30.82	1.000	60.8	12.2	0.0765	60.8
11 1,2,3,4,7,8-HxCDF	5.51e5	1.21	NO	0.8782	1.000	33.84	1.000	55.9	11.2	0.109	55.9
12 1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.76	1.000	58.5	11.3	0.107	56.5
13 2,3,4,6,7,8-HxCDF	4.78e5	1.19	NO	0.9217	1.000	34.33	1.000	56.2	11.2	0.118	56.2
14 1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.8642	1.000	34.22	1.000	55.3	11.1	0.162	55.3
15 1,2,3,4,6,7,8-HpCDF	4.11e5	0.86	NO	0.8712	1.000	35.97	1.001	54.9	11.0	0.153	54.9
16 1,2,3,4,7,8,9-HpCDF	2.95e5	0.96	NO	1.0115	1.000	35.95	1.000	57.2	11.4	0.204	57.2
17 OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	11.5	0.126	115



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Last Altered: Thursday, April 30, 2020 8:38:20 AM Pacific Daylight Time  
Printed: Thursday, April 30, 2020 8:38:30 AM Pacific Daylight Time

Name: 200429R2\_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308





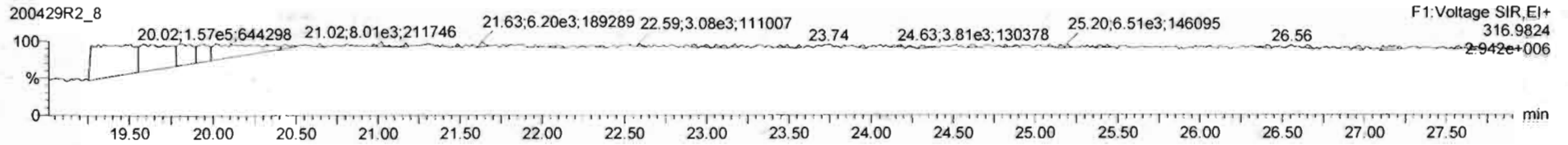
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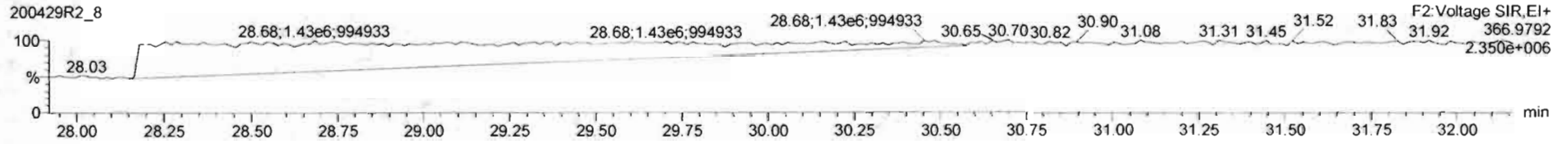
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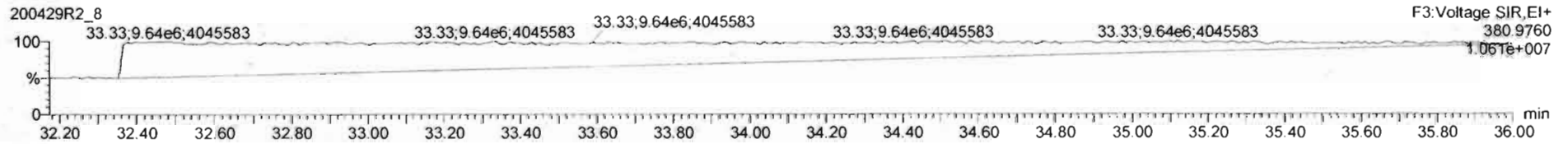
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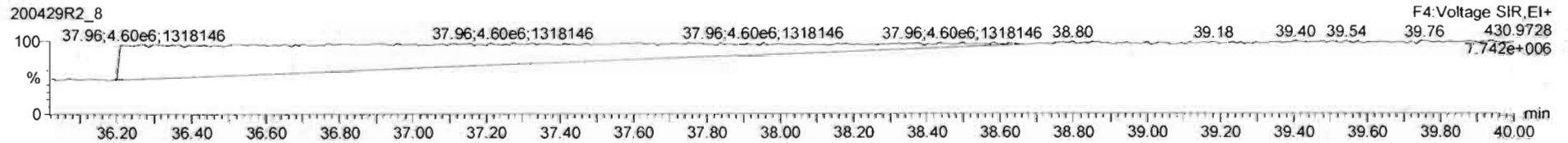
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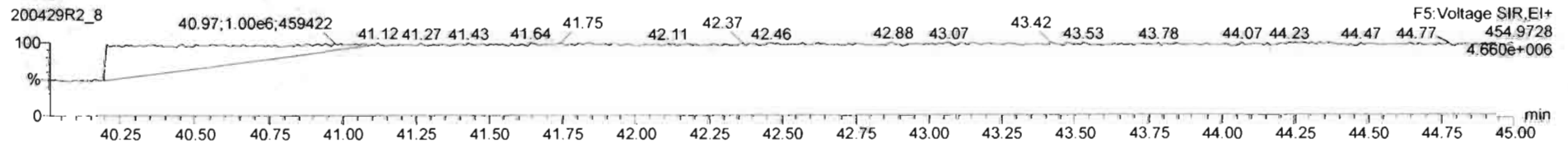
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**PFK4**



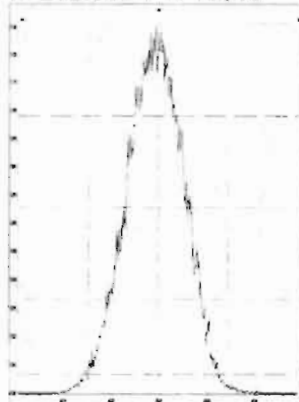
**PFK5**



File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

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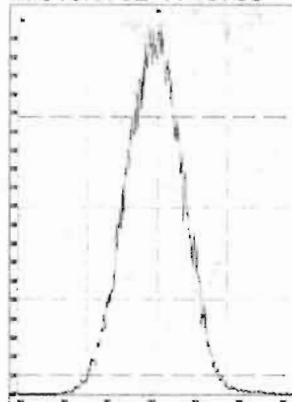
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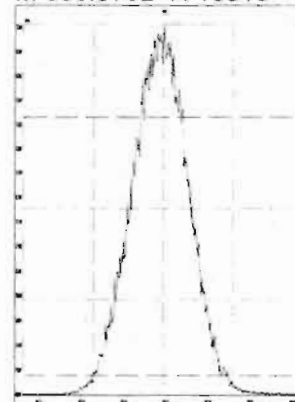
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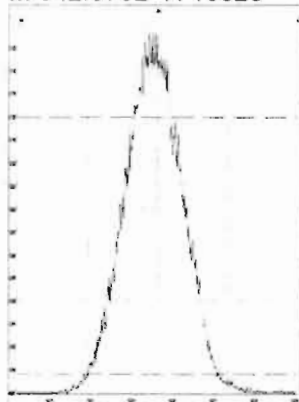
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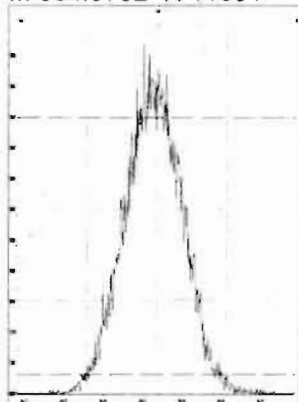
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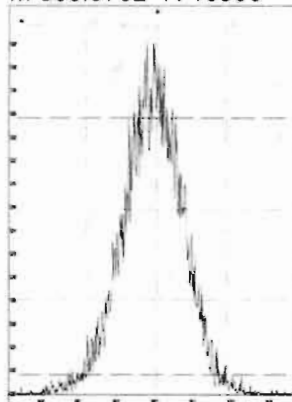
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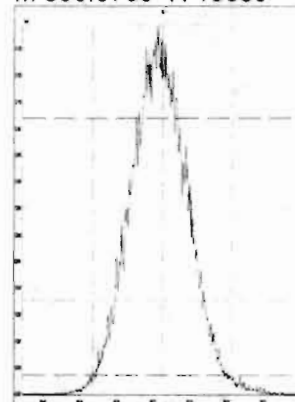
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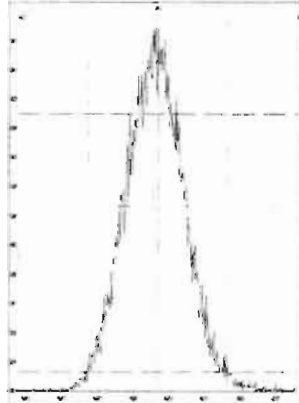
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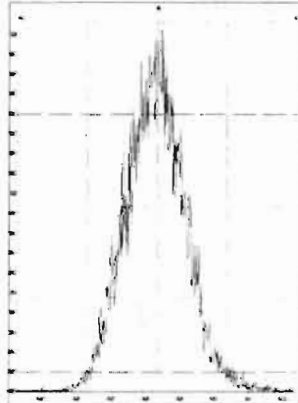
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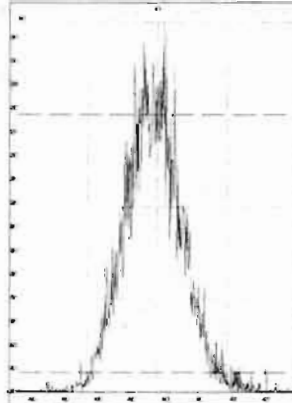
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M 404.9760 R 10370



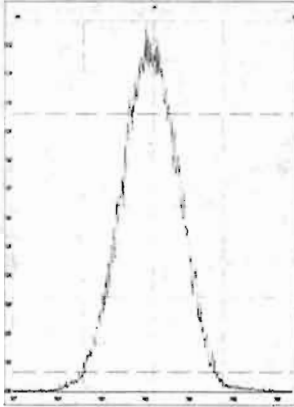
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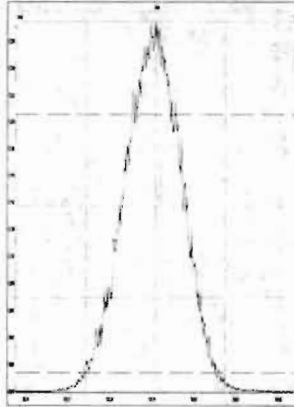
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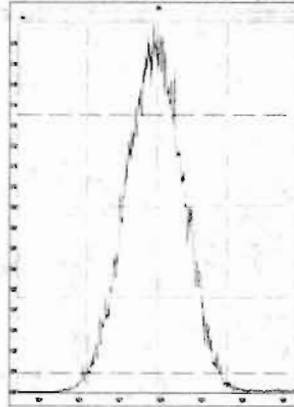
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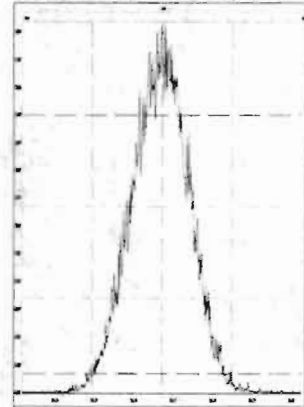
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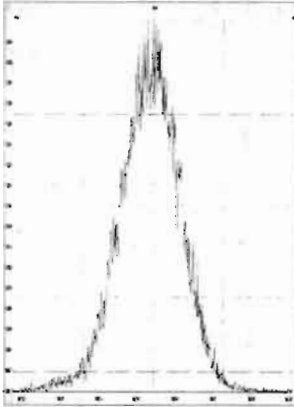
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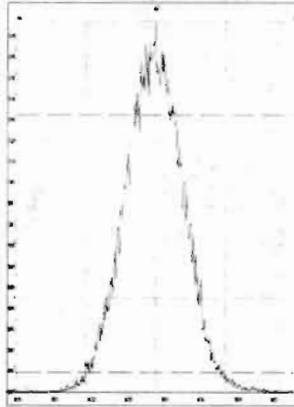
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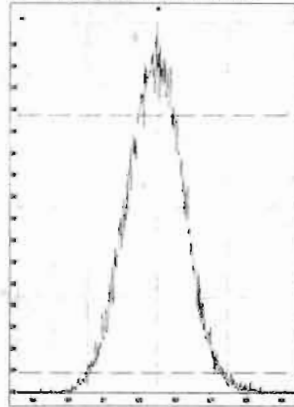
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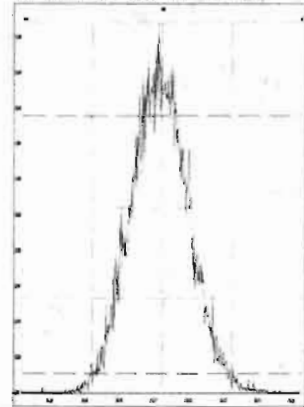
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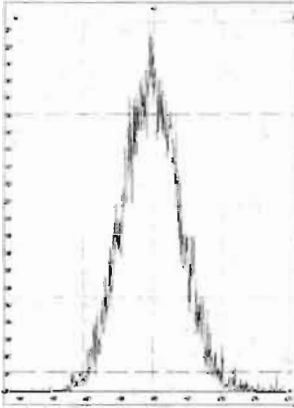
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M 404.9760 R 10730



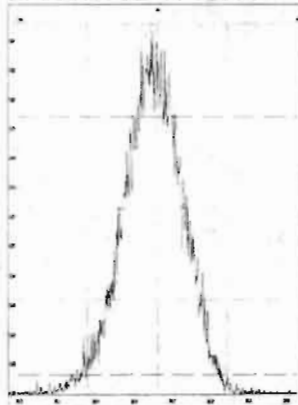
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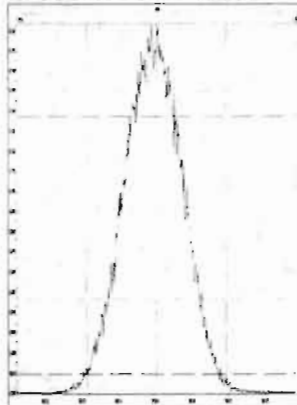
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Printed: Thursday, April 30, 2020 07:17:57 Pacific Daylight Time

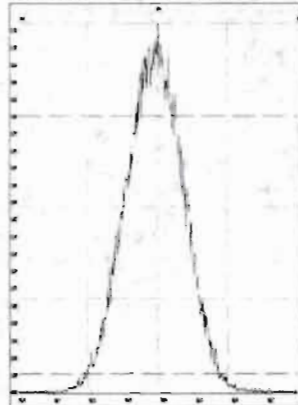
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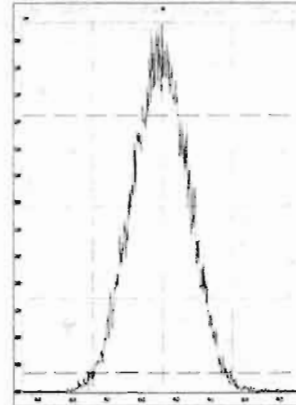
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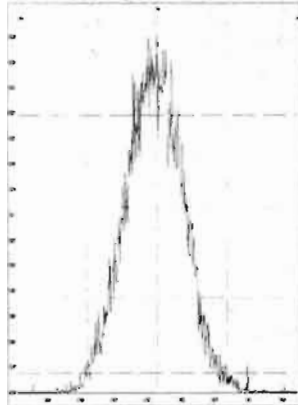
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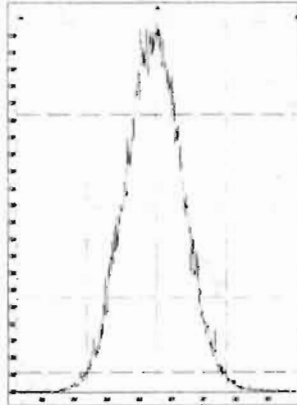
M 404.9760 R 11010



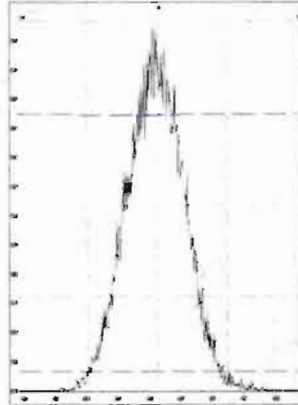
M 416.9760 R 10964



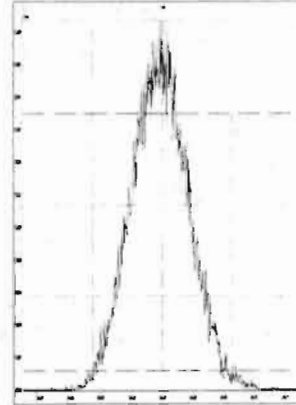
M 430.9728 R 10415



M 442.9728 R 10730



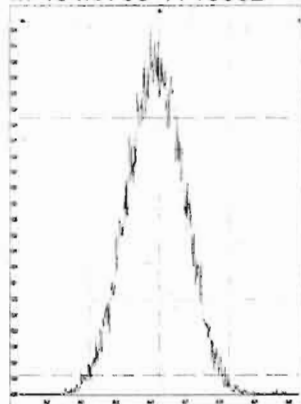
M 454.9728 R 11260



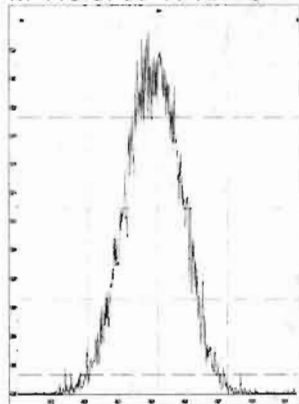
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, April 30, 2020 07:18:12 Pacific Daylight Time

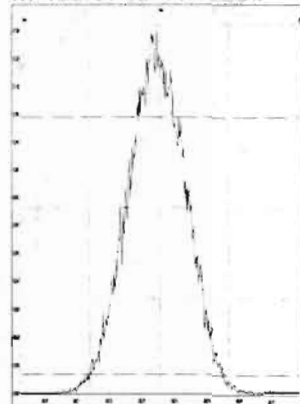
M 404.9760 R 10682



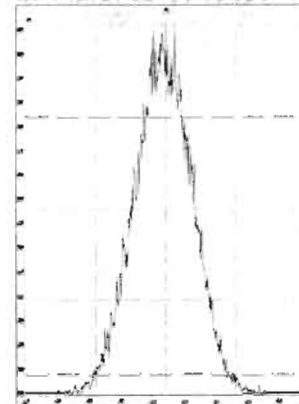
M 416.9760 R 10776



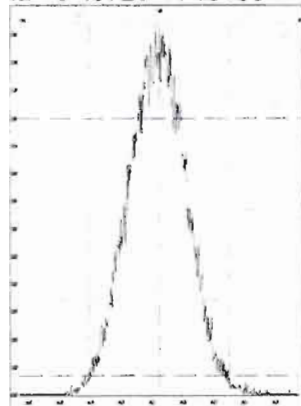
M 430.9728 R 10503



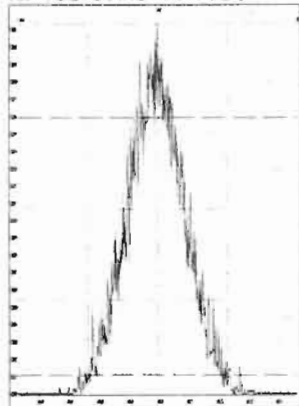
M 442.9728 R 10505



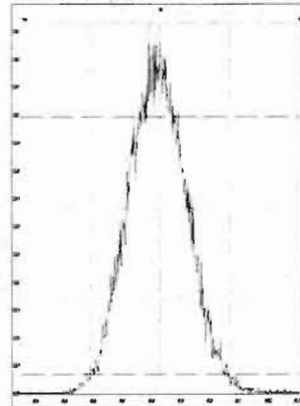
M 454.9728 R 10460



M 466.9728 R 10591



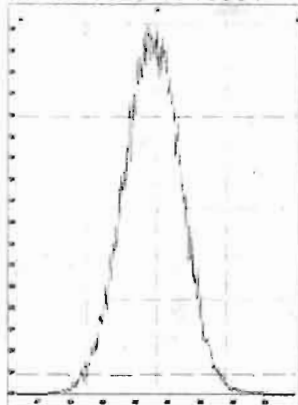
M 480.9696 R 10040



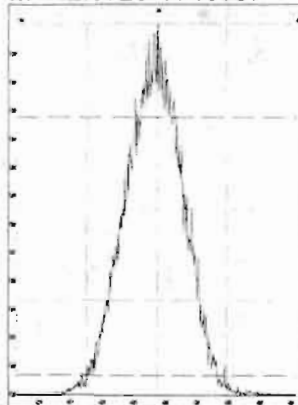
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, April 30, 2020 07:18:29 Pacific Daylight Time

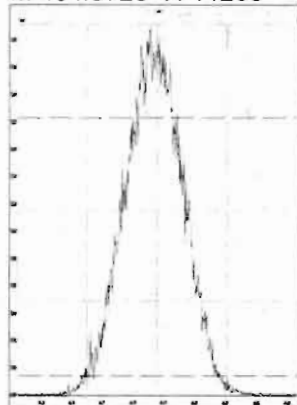
M 430.9728 R 10684



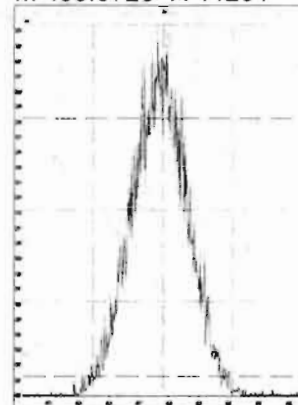
M 442.9728 R 10637



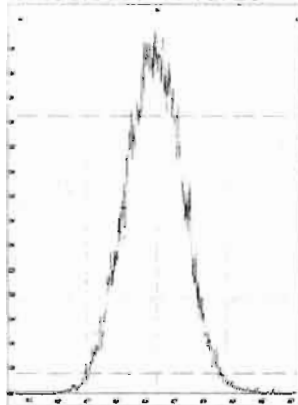
M 454.9728 R 11259



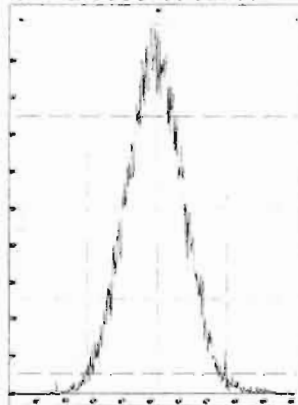
M 466.9728 R 11261



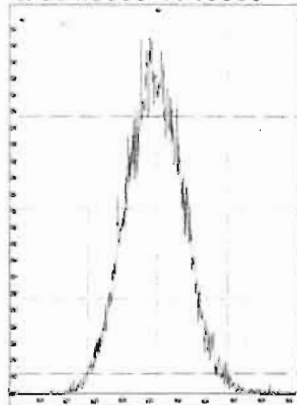
M 480.9696 R 10728



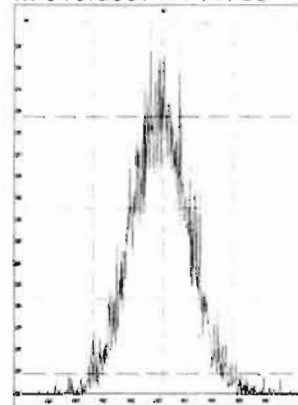
M 492.9696 R 10867



M 504.9696 R 10869



M 516.9697 R 11738





Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld  
 Last Altered: Monday, March 09, 2020 17:20:28 Pacific Daylight Time  
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DB 3/9/20 C7 03/10/2020

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 09 Mar 2020 11:30:34  
 Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

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

Response Factor: 0.986791  
 RRF SD: 0.0674267, Relative SD: 6.83293  
 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	200309D1_1	0.250	0.85	NO	25.88	1.001	1.59e2	6.81e4	0.237	-5.3	0.934	MM
2	200309D1_2	0.500	0.88	NO	25.85	1.000	3.14e2	6.95e4	0.457	-8.6	0.902	MM
3	200309D1_3	2.00	0.84	NO	25.88	1.001	1.33e3	6.75e4	1.99	-0.3	0.984	bb
4	200309D1_4	40.0	0.78	NO	25.90	1.001	2.62e4	6.74e4	39.3	-1.7	0.970	bb
5	200309D1_5	300	0.77	NO	25.90	1.001	2.32e5	7.20e4	327	9.1	1.08	db
6	200309D1_6	10.0	0.84	NO	25.90	1.001	5.95e3	5.65e4	10.7	6.7	1.05	db

**Compound name: 1,2,3,7,8-PeCDD**

Response Factor: 0.982426  
 RRF SD: 0.0451347, Relative SD: 4.59421  
 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	200309D1_1	1.25	0.66	NO	30.47	1.000	6.61e2	5.66e4	1.19	-5.0	0.933	bb
2	200309D1_2	2.50	0.63	NO	30.47	1.000	1.30e3	5.32e4	2.49	-0.5	0.977	bb
3	200309D1_3	10.0	0.68	NO	30.47	1.000	5.19e3	5.49e4	9.61	-3.9	0.944	bb
4	200309D1_4	200	0.62	NO	30.49	1.001	1.12e5	5.55e4	205	2.7	1.01	bb
5	200309D1_5	1500	0.63	NO	30.49	1.001	9.76e5	6.16e4	1610	7.5	1.06	bb
6	200309D1_6	50.0	0.63	NO	30.49	1.001	2.35e4	4.81e4	49.6	-0.7	0.975	bb

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Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

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**Compound name: 1,2,3,4,7,8-HxCDD**

Response Factor: 1.17437

RRF SD: 0.0577382, Relative SD: 4.91652

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	200309D1_1	1.25	1.18	NO	33.75	1.000	6.45e2	4.51e4	1.22	-2.7	1.14	bd
2	200309D1_2	2.50	1.21	NO	33.76	1.000	1.19e3	4.27e4	2.37	-5.1	1.11	bd
3	200309D1_3	10.0	1.21	NO	33.76	1.001	5.25e3	4.33e4	10.3	3.2	1.21	bd
4	200309D1_4	200	1.27	NO	33.77	1.000	1.15e5	4.94e4	199	-0.5	1.17	bd
5	200309D1_5	1500	1.25	NO	33.76	1.000	1.01e6	5.28e4	1620	8.2	1.27	bd
6	200309D1_6	50.0	1.30	NO	33.77	1.000	2.32e4	4.08e4	48.4	-3.2	1.14	bd

**Compound name: 1,2,3,6,7,8-HxCDD**

Response Factor: 1.0362

RRF SD: 0.0515873, Relative SD: 4.9785

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	200309D1_1	1.25	1.28	NO	33.86	1.000	7.20e2	5.91e4	1.17	-6.0	0.974	db
2	200309D1_2	2.50	1.34	NO	33.86	1.000	1.47e3	5.50e4	2.58	3.0	1.07	db
3	200309D1_3	10.0	1.28	NO	33.86	1.000	5.81e3	5.52e4	10.2	1.5	1.05	db
4	200309D1_4	200	1.25	NO	33.88	1.000	1.24e5	5.99e4	199	-0.3	1.03	db
5	200309D1_5	1500	1.26	NO	33.87	1.000	1.05e6	6.33e4	1600	7.0	1.11	db
6	200309D1_6	50.0	1.22	NO	33.87	1.000	2.48e4	5.06e4	47.4	-5.2	0.982	db

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

Response Factor: 1.00287

RRF SD: 0.0694501, Relative SD: 6.92514

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	200309D1_1	1.25	1.14	NO	34.15	1.000	6.16e2	5.38e4	1.14	-8.7	0.915	bb
2	200309D1_2	2.50	1.18	NO	34.16	1.000	1.32e3	5.16e4	2.55	1.8	1.02	bb



Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200309D1_3	10.0	1.23	NO	34.16	1.000	5.12e3	5.22e4	9.77	-2.3	0.980	bb
4	200309D1_4	200	1.27	NO	34.17	1.000	1.18e5	5.76e4	204	1.9	1.02	bd
5	200309D1_5	1500	1.24	NO	34.16	1.000	1.01e6	6.01e4	1670	11.5	1.12	bb
6	200309D1_6	50.0	1.22	NO	34.17	1.001	2.27e4	4.73e4	47.9	-4.3	0.960	bb

**Compound name: 1,2,3,4,6,7,8-HpCDD**

Response Factor: 0.991554  
 RRF SD: 0.0575038, Relative SD: 5.79936  
 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	200309D1_1	1.25	1.12	NO	37.64	1.001	5.97e2	4.76e4	1.26	1.1	1.00	bb
2	200309D1_2	2.50	1.03	NO	37.65	1.001	1.03e3	4.11e4	2.54	1.5	1.01	bb
3	200309D1_3	10.0	1.06	NO	37.64	1.000	4.11e3	4.54e4	9.13	-8.7	0.905	bb
4	200309D1_4	200	1.07	NO	37.65	1.000	1.01e5	4.89e4	208	4.0	1.03	bd
5	200309D1_5	1500	1.03	NO	37.64	1.000	9.00e5	5.66e4	1600	7.0	1.06	bb
6	200309D1_6	50.0	1.03	NO	37.65	1.001	1.97e4	4.19e4	47.6	-4.9	0.943	bb

**Compound name: OCDD**

Response Factor: 1.03532  
 RRF SD: 0.0416085, Relative SD: 4.01889  
 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	200309D1_1	2.50	0.91	NO	40.83	1.000	9.32e2	7.50e4	2.40	-3.9	0.994	MM
2	200309D1_2	5.00	0.78	NO	40.85	1.000	1.85e3	6.85e4	5.23	4.6	1.08	bd
3	200309D1_3	20.0	0.98	NO	40.85	1.000	7.01e3	7.19e4	18.8	-5.8	0.975	bd
4	200309D1_4	400	0.93	NO	40.85	1.000	1.78e5	8.39e4	410	2.5	1.06	bd
5	200309D1_5	3000	0.89	NO	40.86	1.000	1.63e6	1.03e5	3040	1.4	1.05	bb
6	200309D1_6	100	0.91	NO	40.86	1.000	3.46e4	6.60e4	101	1.4	1.05	bd

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

Response Factor: 0.881772  
 RRF SD: 0.0293286, Relative SD: 3.3261  
 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	200309D1_1	0.250	0.66	NO	25.06	1.000	2.28e2	1.00e5	0.258	3.0	0.909	MM
2	200309D1_2	0.500	0.76	NO	25.06	1.001	4.83e2	1.06e5	0.514	2.8	0.907	MM
3	200309D1_3	2.00	0.88	NO	25.07	1.000	1.84e3	1.05e5	1.99	-0.6	0.876	MM
4	200309D1_4	40.0	0.74	NO	25.09	1.001	3.49e4	1.05e5	37.6	-6.0	0.829	bb
5	200309D1_5	300	0.76	NO	25.09	1.001	3.02e5	1.13e5	303	1.0	0.891	bb
6	200309D1_6	10.0	0.74	NO	25.07	1.001	7.83e3	8.90e4	9.97	-0.3	0.879	bb

**Compound name: 1,2,3,7,8-PeCDF**

Response Factor: 1.04525  
 RRF SD: 0.0516323, Relative SD: 4.93972  
 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	200309D1_1	1.25	1.46	NO	29.28	1.001	1.15e3	9.51e4	1.16	-7.6	0.966	bb
2	200309D1_2	2.50	1.57	NO	29.28	1.001	2.47e3	8.89e4	2.66	6.5	1.11	bb
3	200309D1_3	10.0	1.52	NO	29.28	1.001	9.45e3	9.31e4	9.71	-2.9	1.01	bb
4	200309D1_4	200	1.61	NO	29.30	1.001	1.99e5	9.40e4	203	1.3	1.06	bd
5	200309D1_5	1500	1.56	NO	29.30	1.001	1.61e6	9.94e4	1550	3.4	1.08	bb
6	200309D1_6	50.0	1.62	NO	29.28	1.000	3.93e4	7.57e4	49.7	-0.7	1.04	bd

**Compound name: 2,3,4,7,8-PeCDF**

Response Factor: 1.06003  
 RRF SD: 0.0406821, Relative SD: 3.83782  
 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	200309D1_1	1.25	1.66	NO	30.19	1.001	1.25e3	9.11e4	1.30	3.6	1.10	bb
2	200309D1_2	2.50	1.72	NO	30.19	1.000	2.10e3	8.35e4	2.38	-5.0	1.01	bb

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**Compound name: 2,3,4,7,8-PeCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200309D1_3	10.0	1.59	NO	30.19	1.001	9.41e3	8.81e4	10.1	0.8	1.07	bb
4	200309D1_4	200	1.60	NO	30.21	1.001	1.95e5	9.25e4	199	-0.4	1.06	bb
5	200309D1_5	1500	1.56	NO	30.19	1.000	1.64e6	9.85e4	1570	4.6	1.11	bb
6	200309D1_6	50.0	1.59	NO	30.19	1.000	3.92e4	7.68e4	48.2	-3.7	1.02	bb

**Compound name: 1,2,3,4,7,8-HxCDF**

Response Factor: 1.08299

RRF SD: 0.038965, Relative SD: 3.59793

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	200309D1_1	1.25	1.27	NO	32.87	1.000	9.32e2	7.17e4	1.20	-3.9	1.04	bd
2	200309D1_2	2.50	1.18	NO	32.89	1.000	1.90e3	6.72e4	2.61	4.3	1.13	bd
3	200309D1_3	10.0	1.24	NO	32.89	1.001	7.56e3	6.92e4	10.1	0.8	1.09	bd
4	200309D1_4	200	1.25	NO	32.90	1.000	1.60e5	7.40e4	200	-0.1	1.08	dd
5	200309D1_5	1500	1.24	NO	32.89	1.000	1.35e6	8.03e4	1550	3.3	1.12	dd
6	200309D1_6	50.0	1.27	NO	32.90	1.001	3.35e4	6.48e4	47.8	-4.4	1.04	bd

**Compound name: 1,2,3,6,7,8-HxCDF**

Response Factor: 1.04248

RRF SD: 0.0426252, Relative SD: 4.08882

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	200309D1_1	1.25	1.22	NO	33.01	1.001	9.80e2	8.01e4	1.17	-6.1	0.979	db
2	200309D1_2	2.50	1.28	NO	33.02	1.001	1.97e3	7.44e4	2.54	1.6	1.06	db
3	200309D1_3	10.0	1.24	NO	33.01	1.000	8.06e3	7.79e4	9.92	-0.8	1.03	db
4	200309D1_4	200	1.25	NO	33.02	1.000	1.76e5	8.37e4	201	0.7	1.05	db
5	200309D1_5	1500	1.25	NO	33.02	1.001	1.46e6	8.80e4	1590	6.3	1.11	db
6	200309D1_6	50.0	1.26	NO	33.02	1.001	3.62e4	7.06e4	49.2	-1.7	1.02	db

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Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

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**Compound name: 2,3,4,6,7,8-HxCDF**

Response Factor: 1.11095

RRF SD: 0.0463148, Relative SD: 4.16894

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	200309D1_1	1.25	1.18	NO	33.59	1.000	9.35e2	7.20e4	1.17	-6.5	1.04	bb
2	200309D1_2	2.50	1.26	NO	33.60	1.000	1.86e3	6.61e4	2.53	1.3	1.13	bb
3	200309D1_3	10.0	1.25	NO	33.59	1.000	7.62e3	7.02e4	9.77	-2.3	1.09	bb
4	200309D1_4	200	1.26	NO	33.61	1.000	1.69e5	7.56e4	202	0.8	1.12	bb
5	200309D1_5	1500	1.24	NO	33.60	1.001	1.42e6	8.06e4	1590	6.0	1.18	bb
6	200309D1_6	50.0	1.27	NO	33.60	1.000	3.50e4	6.26e4	50.3	0.7	1.12	bb

**Compound name: 1,2,3,7,8,9-HxCDF**

Response Factor: 1.05671

RRF SD: 0.0544012, Relative SD: 5.14816

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	200309D1_1	1.25	1.16	NO	34.53	1.001	7.41e2	5.94e4	1.18	-5.5	0.999	MM
2	200309D1_2	2.50	1.24	NO	34.53	1.001	1.40e3	5.56e4	2.37	-5.0	1.00	bb
3	200309D1_3	10.0	1.24	NO	34.53	1.001	6.08e3	5.62e4	10.2	2.4	1.08	bb
4	200309D1_4	200	1.24	NO	34.53	1.000	1.35e5	6.28e4	204	1.8	1.08	bb
5	200309D1_5	1500	1.24	NO	34.53	1.001	1.16e6	6.79e4	1620	8.1	1.14	bb
6	200309D1_6	50.0	1.29	NO	34.53	1.000	2.76e4	5.32e4	49.1	-1.8	1.04	bb

**Compound name: 1,2,3,4,6,7,8-HpCDF**

Response Factor: 1.12811

RRF SD: 0.0801215, Relative SD: 7.10229

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	200309D1_1	1.25	0.99	NO	36.32	1.001	7.86e2	6.36e4	1.10	-12.3	0.989	bb
2	200309D1_2	2.50	0.99	NO	36.34	1.001	1.64e3	5.53e4	2.63	5.1	1.19	bb

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**Compound name: 1,2,3,4,6,7,8-HpCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200309D1_3	10.0	0.98	NO	36.34	1.001	6.50e3	5.84e4	9.87	-1.3	1.11	bb
4	200309D1_4	200	1.01	NO	36.34	1.000	1.41e5	6.29e4	199	-0.3	1.12	bb
5	200309D1_5	1500	1.04	NO	36.34	1.001	1.26e6	6.88e4	1630	8.5	1.22	bb
6	200309D1_6	50.0	1.03	NO	36.34	1.000	2.92e4	5.16e4	50.2	0.3	1.13	bb

**Compound name: 1,2,3,4,7,8,9-HpCDF**

Response Factor: 1.33317

RRF SD: 0.0694325, Relative SD: 5.20809

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	200309D1_1	1.25	0.90	NO	38.15	1.000	6.45e2	4.04e4	1.20	-4.2	1.28	MM
2	200309D1_2	2.50	0.91	NO	38.15	1.000	1.25e3	3.60e4	2.60	4.1	1.39	bb
3	200309D1_3	10.0	1.13	NO	38.16	1.000	5.08e3	3.98e4	9.58	-4.2	1.28	bb
4	200309D1_4	200	1.03	NO	38.16	1.000	1.18e5	4.51e4	196	-1.9	1.31	bb
5	200309D1_5	1500	1.03	NO	38.16	1.000	1.08e6	4.99e4	1630	8.6	1.45	bb
6	200309D1_6	50.0	1.01	NO	38.16	1.000	2.39e4	3.67e4	48.8	-2.3	1.30	bb

**Compound name: OCDF**

Response Factor: 0.932771

RRF SD: 0.056358, Relative SD: 6.04199

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	200309D1_1	2.50	1.01	NO	41.05	1.000	1.07e3	1.01e5	2.26	-9.6	0.843	MM
2	200309D1_2	5.00	0.92	NO	41.06	1.000	1.94e3	8.54e4	4.86	-2.7	0.907	bb
3	200309D1_3	20.0	0.93	NO	41.07	1.000	8.47e3	9.16e4	19.8	-0.9	0.924	bb
4	200309D1_4	400	0.89	NO	41.07	1.000	2.16e5	1.10e5	419	4.7	0.977	bb
5	200309D1_5	3000	0.90	NO	41.08	1.000	1.90e6	1.26e5	3230	7.6	1.00	bb
6	200309D1_6	100	0.90	NO	41.07	1.000	3.98e4	8.45e4	101	0.9	0.941	bb



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**Compound name: 13C-2,3,7,8-TCDD**

Response Factor: 1.20655  
 RRF SD: 0.128513, Relative SD: 10.6512  
 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	200309D1_1	100	0.74	NO	25.85	1.022	6.81e4	4.86e4	116	16.1	1.40	bb
2	200309D1_2	100	0.75	NO	25.85	1.023	6.95e4	6.31e4	91.3	-8.7	1.10	bb
3	200309D1_3	100	0.76	NO	25.87	1.023	6.75e4	6.45e4	86.8	-13.2	1.05	bb
4	200309D1_4	100	0.80	NO	25.87	1.023	6.74e4	5.33e4	105	4.7	1.26	bb
5	200309D1_5	100	0.74	NO	25.88	1.023	7.20e4	5.70e4	105	4.7	1.26	bb
6	200309D1_6	100	0.75	NO	25.87	1.023	5.65e4	4.86e4	96.3	-3.7	1.16	bb

**Compound name: 13C-1,2,3,7,8-PeCDD**

Response Factor: 0.995685  
 RRF SD: 0.128012, Relative SD: 12.8567  
 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	200309D1_1	100	0.63	NO	30.47	1.205	5.66e4	4.86e4	117	17.0	1.17	bb
2	200309D1_2	100	0.64	NO	30.47	1.206	5.32e4	6.31e4	84.7	-15.3	0.844	bd
3	200309D1_3	100	0.63	NO	30.47	1.205	5.49e4	6.45e4	85.6	-14.4	0.852	bb
4	200309D1_4	100	0.62	NO	30.47	1.205	5.55e4	5.33e4	105	4.6	1.04	bb
5	200309D1_5	100	0.62	NO	30.47	1.204	6.16e4	5.70e4	109	8.6	1.08	bb
6	200309D1_6	100	0.64	NO	30.47	1.205	4.81e4	4.86e4	99.4	-0.6	0.990	bb

**Compound name: 13C-1,2,3,4,7,8-HxCDD**

Response Factor: 0.678621  
 RRF SD: 0.0705651, Relative SD: 10.3983  
 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	200309D1_1	100	1.29	NO	33.74	1.014	4.51e4	6.21e4	107	7.1	0.727	bd
2	200309D1_2	100	1.28	NO	33.75	1.015	4.27e4	7.06e4	89.1	-10.9	0.605	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	200309D1_3	100	1.31	NO	33.74	1.014	4.33e4	7.46e4	85.6	-14.4	0.581	bd
4	200309D1_4	100	1.30	NO	33.76	1.014	4.94e4	6.86e4	106	6.1	0.720	bd
5	200309D1_5	100	1.31	NO	33.75	1.014	5.28e4	7.00e4	111	11.2	0.755	bd
6	200309D1_6	100	1.30	NO	33.76	1.015	4.08e4	5.96e4	101	0.9	0.685	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDD**

Response Factor: 0.849636  
 RRF SD: 0.0787027, Relative SD: 9.26311  
 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	200309D1_1	100	1.40	NO	33.85	1.017	5.91e4	6.21e4	112	12.1	0.952	dd
2	200309D1_2	100	1.28	NO	33.86	1.018	5.50e4	7.06e4	91.7	-8.3	0.779	dd
3	200309D1_3	100	1.34	NO	33.85	1.017	5.52e4	7.46e4	87.1	-12.9	0.740	dd
4	200309D1_4	100	1.39	NO	33.87	1.017	5.99e4	6.86e4	103	2.8	0.873	dd
5	200309D1_5	100	1.27	NO	33.86	1.017	6.33e4	7.00e4	106	6.4	0.904	db
6	200309D1_6	100	1.28	NO	33.86	1.017	5.06e4	5.96e4	99.9	-0.1	0.849	dd

**Compound name: 13C-1,2,3,7,8,9-HxCDD**

Response Factor: 0.798357  
 RRF SD: 0.0695869, Relative SD: 8.71626  
 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	200309D1_1	100	1.39	NO	34.14	1.026	5.38e4	6.21e4	109	8.6	0.867	dd
2	200309D1_2	100	1.30	NO	34.15	1.026	5.16e4	7.06e4	91.6	-8.4	0.731	dd
3	200309D1_3	100	1.32	NO	34.15	1.026	5.22e4	7.46e4	87.7	-12.3	0.700	dd
4	200309D1_4	100	1.37	NO	34.16	1.026	5.76e4	6.86e4	105	5.2	0.840	dd
5	200309D1_5	100	1.32	NO	34.15	1.026	6.01e4	7.00e4	108	7.6	0.859	bd
6	200309D1_6	100	1.29	NO	34.15	1.026	4.73e4	5.96e4	99.4	-0.6	0.793	dd

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**Compound name: 13C-1,2,3,4,6,7,8-HpCDD**

Response Factor: 0.696902

RRF SD: 0.0877249, Relative SD: 12.5878

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	200309D1_1	100	1.07	NO	37.61	1.131	4.76e4	6.21e4	110	10.1	0.767	bd
2	200309D1_2	100	1.10	NO	37.63	1.131	4.11e4	7.06e4	83.6	-16.4	0.582	bd
3	200309D1_3	100	1.09	NO	37.63	1.131	4.54e4	7.46e4	87.4	-12.6	0.609	bd
4	200309D1_4	100	1.06	NO	37.64	1.131	4.89e4	6.86e4	102	2.2	0.712	bd
5	200309D1_5	100	1.07	NO	37.63	1.131	5.66e4	7.00e4	116	16.0	0.808	bd
6	200309D1_6	100	1.09	NO	37.63	1.131	4.19e4	5.96e4	101	0.8	0.703	bd

**Compound name: 13C-OCDD**

Response Factor: 0.579001

RRF SD: 0.095468, Relative SD: 16.4884

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	200309D1_1	200	0.94	NO	40.82	1.227	7.50e4	6.21e4	209	4.3	0.604	bd
2	200309D1_2	200	0.88	NO	40.84	1.228	6.85e4	7.06e4	168	-16.2	0.485	bd
3	200309D1_3	200	0.87	NO	40.84	1.228	7.19e4	7.46e4	167	-16.7	0.482	bd
4	200309D1_4	200	0.89	NO	40.84	1.227	8.39e4	6.86e4	211	5.5	0.611	bb
5	200309D1_5	200	0.90	NO	40.85	1.228	1.03e5	7.00e4	255	27.4	0.738	bd
6	200309D1_6	200	0.90	NO	40.85	1.228	6.60e4	5.96e4	191	-4.4	0.554	bb

**Compound name: 13C-2,3,7,8-TCDF**

Response Factor: 1.12702

RRF SD: 0.101934, Relative SD: 9.04461

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	200309D1_1	100	0.77	NO	25.06	0.991	1.00e5	8.02e4	111	11.1	1.25	bb
2	200309D1_2	100	0.79	NO	25.04	0.991	1.06e5	1.00e5	94.3	-5.7	1.06	bd



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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	200309D1_3	100	0.79	NO	25.07	0.992	1.05e5	1.08e5	86.3	-13.7	0.972	bd
4	200309D1_4	100	0.77	NO	25.07	0.992	1.05e5	8.88e4	105	5.1	1.18	bd
5	200309D1_5	100	0.75	NO	25.07	0.991	1.13e5	9.48e4	106	5.7	1.19	bd
6	200309D1_6	100	0.77	NO	25.06	0.991	8.90e4	8.10e4	97.4	-2.6	1.10	bb

**Compound name: 13C-1,2,3,7,8-PeCDF**

Response Factor: 0.996069

RRF SD: 0.123213, Relative SD: 12.3699

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	200309D1_1	100	1.63	NO	29.26	1.157	9.51e4	8.02e4	119	19.0	1.18	bd
2	200309D1_2	100	1.66	NO	29.26	1.158	8.89e4	1.00e5	89.1	-10.9	0.888	bd
3	200309D1_3	100	1.71	NO	29.26	1.157	9.31e4	1.08e5	86.6	-13.4	0.862	bd
4	200309D1_4	100	1.56	NO	29.28	1.158	9.40e4	8.88e4	106	6.3	1.06	bb
5	200309D1_5	100	1.62	NO	29.28	1.157	9.94e4	9.48e4	105	5.3	1.05	bb
6	200309D1_6	100	1.58	NO	29.28	1.158	7.57e4	8.10e4	93.8	-6.2	0.934	bb

**Compound name: 13C-2,3,4,7,8-PeCDF**

Response Factor: 0.969008

RRF SD: 0.126598, Relative SD: 13.0647

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	200309D1_1	100	1.61	NO	30.17	1.193	9.11e4	8.02e4	117	17.1	1.14	bb
2	200309D1_2	100	1.68	NO	30.19	1.194	8.35e4	1.00e5	86.1	-13.9	0.834	bb
3	200309D1_3	100	1.64	NO	30.17	1.193	8.81e4	1.08e5	84.1	-15.9	0.815	bb
4	200309D1_4	100	1.61	NO	30.19	1.194	9.25e4	8.88e4	108	7.6	1.04	bb
5	200309D1_5	100	1.65	NO	30.19	1.193	9.85e4	9.48e4	107	7.2	1.04	bb
6	200309D1_6	100	1.61	NO	30.19	1.194	7.68e4	8.10e4	97.9	-2.1	0.948	bb

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**Compound name: 13C-1,2,3,4,7,8-HxCDF**

Response Factor: 1.05776

RRF SD: 0.0965106, Relative SD: 9.12401

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	200309D1_1	100	0.49	NO	32.86	0.988	7.17e4	6.21e4	109	9.1	1.15	bd
2	200309D1_2	100	0.50	NO	32.87	0.988	6.72e4	7.06e4	90.0	-10.0	0.952	bd
3	200309D1_3	100	0.52	NO	32.86	0.988	6.92e4	7.46e4	87.8	-12.2	0.928	bd
4	200309D1_4	100	0.50	NO	32.89	0.988	7.40e4	6.86e4	102	2.0	1.08	bd
5	200309D1_5	100	0.49	NO	32.87	0.988	8.03e4	7.00e4	108	8.5	1.15	bd
6	200309D1_6	100	0.50	NO	32.87	0.988	6.48e4	5.96e4	103	2.8	1.09	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDF**

Response Factor: 1.17529

RRF SD: 0.103469, Relative SD: 8.80369

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	200309D1_1	100	0.49	NO	32.98	0.991	8.01e4	6.21e4	110	9.8	1.29	db
2	200309D1_2	100	0.51	NO	32.99	0.992	7.44e4	7.06e4	89.7	-10.3	1.05	db
3	200309D1_3	100	0.50	NO	32.99	0.992	7.79e4	7.46e4	88.9	-11.1	1.04	db
4	200309D1_4	100	0.51	NO	33.01	0.991	8.37e4	6.86e4	104	3.7	1.22	dd
5	200309D1_5	100	0.51	NO	32.99	0.991	8.80e4	7.00e4	107	7.0	1.26	db
6	200309D1_6	100	0.50	NO	33.00	0.991	7.06e4	5.96e4	101	0.9	1.19	db

**Compound name: 13C-2,3,4,6,7,8-HxCDF**

Response Factor: 1.05681

RRF SD: 0.0990019, Relative SD: 9.36796

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	200309D1_1	100	0.50	NO	33.58	1.009	7.20e4	6.21e4	110	9.8	1.16	bb
2	200309D1_2	100	0.50	NO	33.59	1.010	6.61e4	7.06e4	88.7	-11.3	0.937	bb

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**Compound name: 13C-2,3,4,6,7,8-HxCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200309D1_3	100	0.49	NO	33.58	1.009	7.02e4	7.46e4	89.1	-10.9	0.942	bd
4	200309D1_4	100	0.51	NO	33.60	1.009	7.56e4	6.86e4	104	4.2	1.10	bd
5	200309D1_5	100	0.51	NO	33.58	1.009	8.06e4	7.00e4	109	8.9	1.15	bb
6	200309D1_6	100	0.51	NO	33.59	1.009	6.26e4	5.96e4	99.4	-0.6	1.05	bb

**Compound name: 13C-1,2,3,7,8,9-HxCDF**

Response Factor: 0.879281

RRF SD: 0.0892233, Relative SD: 10.1473

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	200309D1_1	100	0.49	NO	34.51	1.037	5.94e4	6.21e4	109	8.8	0.956	bb
2	200309D1_2	100	0.51	NO	34.51	1.037	5.56e4	7.06e4	89.6	-10.4	0.788	bd
3	200309D1_3	100	0.50	NO	34.51	1.037	5.62e4	7.46e4	85.7	-14.3	0.753	bb
4	200309D1_4	100	0.51	NO	34.53	1.037	6.28e4	6.86e4	104	4.1	0.916	bb
5	200309D1_5	100	0.50	NO	34.51	1.037	6.79e4	7.00e4	110	10.3	0.969	bd
6	200309D1_6	100	0.55	NO	34.52	1.037	5.32e4	5.96e4	102	1.6	0.893	bd

**Compound name: 13C-1,2,3,4,6,7,8-HpCDF**

Response Factor: 0.892598

RRF SD: 0.100339, Relative SD: 11.2413

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	200309D1_1	100	0.43	NO	36.30	1.091	6.36e4	6.21e4	115	14.7	1.02	bb
2	200309D1_2	100	0.45	NO	36.32	1.092	5.53e4	7.06e4	87.8	-12.2	0.784	bd
3	200309D1_3	100	0.44	NO	36.32	1.092	5.84e4	7.46e4	87.7	-12.3	0.783	bb
4	200309D1_4	100	0.43	NO	36.33	1.091	6.29e4	6.86e4	103	2.6	0.916	bb
5	200309D1_5	100	0.44	NO	36.32	1.091	6.88e4	7.00e4	110	10.0	0.982	bb
6	200309D1_6	100	0.44	NO	36.33	1.092	5.16e4	5.96e4	97.1	-2.9	0.867	bb

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

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**Compound name: 13C-1,2,3,4,7,8,9-HpCDF**

Response Factor: 0.613443

RRF SD: 0.0778172, Relative SD: 12.6853

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	200309D1_1	100	0.41	NO	38.14	1.146	4.04e4	6.21e4	106	6.1	0.651	bd
2	200309D1_2	100	0.42	NO	38.15	1.147	3.60e4	7.06e4	83.2	-16.8	0.510	bb
3	200309D1_3	100	0.45	NO	38.15	1.147	3.98e4	7.46e4	87.0	-13.0	0.534	bb
4	200309D1_4	100	0.40	NO	38.15	1.146	4.51e4	6.86e4	107	7.2	0.658	bb
5	200309D1_5	100	0.43	NO	38.15	1.146	4.99e4	7.00e4	116	16.3	0.713	bd
6	200309D1_6	100	0.42	NO	38.15	1.146	3.67e4	5.96e4	100	0.3	0.615	bb

**Compound name: 13C-OCDF**

Response Factor: 0.741294

RRF SD: 0.118564, Relative SD: 15.9941

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	200309D1_1	200	0.84	NO	41.04	1.234	1.01e5	6.21e4	220	9.8	0.814	bd
2	200309D1_2	200	0.85	NO	41.06	1.234	8.54e4	7.06e4	163	-18.3	0.605	bd
3	200309D1_3	200	0.89	NO	41.06	1.234	9.16e4	7.46e4	166	-17.1	0.614	bb
4	200309D1_4	200	0.87	NO	41.06	1.233	1.10e5	6.86e4	217	8.4	0.804	bd
5	200309D1_5	200	0.87	NO	41.07	1.234	1.26e5	7.00e4	243	21.5	0.901	bb
6	200309D1_6	200	0.90	NO	41.06	1.234	8.45e4	5.96e4	191	-4.3	0.709	bd

**Compound name: 37Cl-2,3,7,8-TCDD**

Response Factor: 1.17955

RRF SD: 0.101212, Relative SD: 8.58061

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	200309D1_1	0.250			25.87	1.023	1.52e2	4.86e4	0.266	6.3	1.25	bb
2	200309D1_2	0.500			25.90	1.025	3.46e2	6.31e4	0.465	-6.9	1.10	bb

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**Compound name: 37CI-2,3,7,8-TCDD**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200309D1_3	2.00			25.88	1.024	1.36e3	6.45e4	1.78	-10.9	1.05	bb
4	200309D1_4	40.0			25.90	1.024	2.63e4	5.33e4	41.9	4.6	1.23	bd
5	200309D1_5	200			25.90	1.024	1.49e5	5.70e4	222	11.1	1.31	bb
6	200309D1_6	10.0			25.88	1.024	5.49e3	4.86e4	9.58	-4.2	1.13	bd

**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	200309D1_1	100	0.78	NO	25.29	1.000	4.86e4	4.86e4	100	0.0	1.00	bb
2	200309D1_2	100	0.76	NO	25.27	1.000	6.31e4	6.31e4	100	0.0	1.00	bb
3	200309D1_3	100	0.81	NO	25.29	1.000	6.45e4	6.45e4	100	0.0	1.00	bb
4	200309D1_4	100	0.79	NO	25.29	1.000	5.33e4	5.33e4	100	0.0	1.00	bd
5	200309D1_5	100	0.80	NO	25.30	1.000	5.70e4	5.70e4	100	0.0	1.00	bb
6	200309D1_6	100	0.80	NO	25.29	1.000	4.86e4	4.86e4	100	0.0	1.00	bd

**Compound name: 13C-1,2,3,4-TCDF**

Response Factor: 1

RRF SD: 9.93014e-017, Relative SD: 9.93014e-015

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	200309D1_1	100	0.79	NO	23.79	1.000	8.02e4	8.02e4	100	0.0	1.00	bb
2	200309D1_2	100	0.74	NO	23.77	1.000	1.00e5	1.00e5	100	0.0	1.00	bb
3	200309D1_3	100	0.74	NO	23.80	1.000	1.08e5	1.08e5	100	0.0	1.00	bd
4	200309D1_4	100	0.77	NO	23.79	1.000	8.88e4	8.88e4	100	0.0	1.00	bb
5	200309D1_5	100	0.77	NO	23.80	1.000	9.48e4	9.48e4	100	0.0	1.00	bb
6	200309D1_6	100	0.80	NO	23.80	1.000	8.10e4	8.10e4	100	0.0	1.00	bd



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**Compound name: 13C-1,2,3,4,6,9-HxCDF**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200309D1_1	100	0.49	NO	33.27	1.000	6.21e4	6.21e4	100	0.0	1.00	bb
2	200309D1_2	100	0.51	NO	33.27	1.000	7.06e4	7.06e4	100	0.0	1.00	bb
3	200309D1_3	100	0.51	NO	33.27	1.000	7.46e4	7.46e4	100	0.0	1.00	bb
4	200309D1_4	100	0.52	NO	33.29	1.000	6.86e4	6.86e4	100	0.0	1.00	db
5	200309D1_5	100	0.51	NO	33.28	1.000	7.00e4	7.00e4	100	0.0	1.00	bb
6	200309D1_6	100	0.48	NO	33.28	1.000	5.96e4	5.96e4	100	0.0	1.00	bb

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Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 09 Mar 2020 11:30:34  
Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200309D1\_1, Date: 09-Mar-2020, Time: 12:30:36, ID: ST200309D1-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

#	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	1.59e2	0.85	NO	0.987	1.000	25.882	25.88	1.001	1.001	0.23670	94.7	0.180	0.237
2	2 1,2,3,7,8-PeCDD	6.61e2	0.66	NO	0.982	1.000	30.488	30.47	1.001	1.000	1.1872	95.0	0.148	1.19
3	3 1,2,3,4,7,8-HxCDD	6.45e2	1.18	NO	1.17	1.000	33.751	33.75	1.000	1.000	1.2168	97.3	0.234	1.22
4	4 1,2,3,6,7,8-HxCDD	7.20e2	1.28	NO	1.04	1.000	33.851	33.86	1.000	1.000	1.1745	94.0	0.231	1.17
5	5 1,2,3,7,8,9-HxCDD	6.16e2	1.14	NO	1.00	1.000	34.170	34.15	1.001	1.000	1.1409	91.3	0.254	1.14
6	6 1,2,3,4,6,7,8-HpCDD	5.97e2	1.12	NO	0.992	1.000	37.626	37.64	1.000	1.001	1.2638	101	0.133	1.26
7	7 OCDD	9.32e2	0.91	NO	1.04	1.000	40.819	40.83	1.000	1.000	2.4013	96.1	0.241	2.40
8	8 2,3,7,8-TCDF	2.28e2	0.66	NO	0.882	1.000	25.081	25.06	1.001	1.000	0.25760	103	0.116	0.258
9	9 1,2,3,7,8-PeCDF	1.15e3	1.46	NO	1.05	1.000	29.280	29.28	1.001	1.001	1.1551	92.4	0.0925	1.16
10	10 2,3,4,7,8-PeCDF	1.25e3	1.66	NO	1.06	1.000	30.195	30.19	1.001	1.001	1.2951	104	0.0825	1.30
11	11 1,2,3,4,7,8-HxCDF	9.32e2	1.27	NO	1.08	1.000	32.863	32.87	1.000	1.000	1.2013	96.1	0.101	1.20
12	12 1,2,3,6,7,8-HxCDF	9.80e2	1.22	NO	1.04	1.000	32.994	33.01	1.000	1.001	1.1737	93.9	0.0997	1.17
13	13 2,3,4,6,7,8-HxCDF	9.35e2	1.18	NO	1.11	1.000	33.610	33.59	1.001	1.000	1.1686	93.5	0.0998	1.17
14	14 1,2,3,7,8,9-HxCDF	7.41e2	1.16	NO	1.06	1.000	34.509	34.53	1.000	1.001	1.1817	94.5	0.153	1.18
15	15 1,2,3,4,6,7,8-HpCDF	7.86e2	0.99	NO	1.13	1.000	36.334	36.32	1.001	1.001	1.0959	87.7	0.190	1.10
16	16 1,2,3,4,7,8,9-HpCDF	6.45e2	0.90	NO	1.33	1.000	38.142	38.15	1.000	1.000	1.1971	95.8	0.191	1.20
17	17 OCDF	1.07e3	1.01	NO	0.933	1.000	41.039	41.05	1.000	1.000	2.2593	90.4	0.184	2.26
18	18 13C-2,3,7,8-TCDD	6.81e4	0.74	NO	1.21	1.000	25.943	25.85	1.026	1.022	116.14	116	1.31	
19	19 13C-1,2,3,7,8-PeCDD	5.66e4	0.63	NO	0.996	1.000	30.393	30.47	1.202	1.205	117.05	117	0.796	
20	20 13C-1,2,3,4,7,8-HxCDD	4.51e4	1.29	NO	0.679	1.000	33.735	33.74	1.014	1.014	107.10	107	0.951	
21	21 13C-1,2,3,6,7,8-HxCDD	5.91e4	1.40	NO	0.850	1.000	33.845	33.85	1.017	1.017	112.07	112	0.760	
22	22 13C-1,2,3,7,8,9-HxCDD	5.38e4	1.39	NO	0.798	1.000	34.114	34.14	1.025	1.026	108.57	109	0.808	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.76e4	1.07	NO	0.697	1.000	37.561	37.61	1.129	1.131	110.10	110	0.806	
24	24 13C-OCDD	7.50e4	0.94	NO	0.579	1.000	40.569	40.82	1.219	1.227	208.67	104	1.85	
25	25 13C-2,3,7,8-TCDF	1.00e5	0.77	NO	1.13	1.000	25.033	25.06	0.990	0.991	111.10	111	1.01	
26	26 13C-1,2,3,7,8-PeCDF	9.51e4	1.63	NO	0.996	1.000	29.223	29.26	1.156	1.157	118.96	119	1.13	
27	27 13C-2,3,4,7,8-PeCDF	9.11e4	1.61	NO	0.969	1.000	30.115	30.17	1.191	1.193	117.15	117	1.16	
28	28 13C-1,2,3,4,7,8-HxCDF	7.17e4	0.49	NO	1.06	1.000	32.870	32.86	0.988	0.988	109.10	109	0.930	
29	29 13C-1,2,3,6,7,8-HxCDF	8.01e4	0.49	NO	1.18	1.000	33.003	32.98	0.992	0.991	109.77	110	0.837	
30	30 13C-2,3,4,6,7,8-HxCDF	7.20e4	0.50	NO	1.06	1.000	33.572	33.58	1.009	1.009	109.77	110	0.931	
31	31 13C-1,2,3,7,8,9-HxCDF	5.94e4	0.49	NO	0.879	1.000	34.467	34.51	1.036	1.037	108.76	109	1.12	

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Name: 200309D1\_1, Date: 09-Mar-2020, Time: 12:30:36, ID: ST200309D1-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.36e4	0.43	NO	0.893	1.000	36.164	36.30	1.087	1.091	114.72	115	0.962	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.04e4	0.41	NO	0.613	1.000	38.160	38.14	1.147	1.146	106.06	106	1.40	
34	34 13C-OCDF	1.01e5	0.84	NO	0.741	1.000	40.722	41.04	1.224	1.234	219.65	110	1.02	
35	35 37Cl-2,3,7,8-TCDD	1.52e2			1.18	1.000	25.941	25.87	1.026	1.023	0.26571	106	0.0945	
36	36 13C-1,2,3,4-TCDD	4.86e4	0.78	NO	1.00	1.000	25.440	25.29	1.000	1.000	100.00	100	1.58	
37	37 13C-1,2,3,4-TCDF	8.02e4	0.79	NO	1.00	1.000	23.970	23.79	1.000	1.000	100.00	100	1.14	
38	38 13C-1,2,3,4,6,9-HxCDF	6.21e4	0.49	NO	1.00	1.000	33.260	33.27	1.000	1.000	100.00	100	0.984	



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Name: 200309D1\_2, Date: 09-Mar-2020, Time: 13:13:59, ID: ST200309D1-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

	# 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	3.14e2	0.88	NO	0.987	1.000	25.882	25.85	1.001	1.000	0.45712	91.4	0.151	0.457
2	2 1,2,3,7,8-PeCDD	1.30e3	0.63	NO	0.982	1.000	30.488	30.47	1.001	1.000	2.4865	99.5	0.173	2.49
3	3 1,2,3,4,7,8-HxCDD	1.19e3	1.21	NO	1.17	1.000	33.762	33.76	1.000	1.000	2.3736	94.9	0.211	2.37
4	4 1,2,3,6,7,8-HxCDD	1.47e3	1.34	NO	1.04	1.000	33.862	33.86	1.000	1.000	2.5750	103	0.217	2.58
5	5 1,2,3,7,8,9-HxCDD	1.32e3	1.18	NO	1.00	1.000	34.181	34.16	1.001	1.000	2.5461	102	0.230	2.55
6	6 1,2,3,4,6,7,8-HpCDD	1.03e3	1.03	NO	0.992	1.000	37.637	37.65	1.000	1.001	2.5372	101	0.150	2.54
7	7 OCDD	1.85e3	0.78	NO	1.04	1.000	40.841	40.85	1.000	1.000	5.2302	105	0.302	5.23
8	8 2,3,7,8-TCDF	4.83e2	0.76	NO	0.882	1.000	25.066	25.06	1.001	1.001	0.51421	103	0.101	0.514
9	9 1,2,3,7,8-PeCDF	2.47e3	1.57	NO	1.05	1.000	29.280	29.28	1.001	1.001	2.6630	107	0.0882	2.66
10	10 2,3,4,7,8-PeCDF	2.10e3	1.72	NO	1.06	1.000	30.216	30.19	1.001	1.000	2.3750	95.0	0.0901	2.38
11	11 1,2,3,4,7,8-HxCDF	1.90e3	1.18	NO	1.08	1.000	32.874	32.89	1.000	1.000	2.6075	104	0.0890	2.61
12	12 1,2,3,6,7,8-HxCDF	1.97e3	1.28	NO	1.04	1.000	33.005	33.02	1.000	1.001	2.5390	102	0.0914	2.54
13	13 2,3,4,6,7,8-HxCDF	1.86e3	1.26	NO	1.11	1.000	33.621	33.60	1.001	1.000	2.5318	101	0.102	2.53
14	14 1,2,3,7,8,9-HxCDF	1.40e3	1.24	NO	1.06	1.000	34.509	34.53	1.000	1.001	2.3747	95.0	0.146	2.37
15	15 1,2,3,4,6,7,8-HpCDF	1.64e3	0.99	NO	1.13	1.000	36.356	36.34	1.001	1.001	2.6271	105	0.121	2.63
16	16 1,2,3,4,7,8,9-HpCDF	1.25e3	0.91	NO	1.33	1.000	38.152	38.15	1.000	1.000	2.6032	104	0.135	2.60
17	17 OCDF	1.94e3	0.92	NO	0.933	1.000	41.060	41.06	1.000	1.000	4.8641	97.3	0.263	4.86
18	18 13C-2,3,7,8-TCDD	6.95e4	0.75	NO	1.21	1.000	25.927	25.85	1.026	1.023	91.317	91.3	0.806	
19	19 13C-1,2,3,7,8-PeCDD	5.32e4	0.64	NO	0.996	1.000	30.375	30.47	1.202	1.206	84.744	84.7	0.624	
20	20 13C-1,2,3,4,7,8-HxCDD	4.27e4	1.28	NO	0.679	1.000	33.735	33.75	1.014	1.015	89.104	89.1	0.804	
21	21 13C-1,2,3,6,7,8-HxCDD	5.50e4	1.28	NO	0.850	1.000	33.845	33.86	1.017	1.018	91.724	91.7	0.642	
22	22 13C-1,2,3,7,8,9-HxCDD	5.16e4	1.30	NO	0.798	1.000	34.114	34.15	1.025	1.026	91.609	91.6	0.684	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.11e4	1.10	NO	0.697	1.000	37.561	37.63	1.129	1.131	83.563	83.6	0.824	
24	24 13C-OCDD	6.85e4	0.88	NO	0.579	1.000	40.568	40.84	1.219	1.228	167.58	83.8	1.10	
25	25 13C-2,3,7,8-TCDF	1.06e5	0.79	NO	1.13	1.000	25.018	25.04	0.990	0.991	94.333	94.3	0.693	
26	26 13C-1,2,3,7,8-PeCDF	8.89e4	1.66	NO	0.996	1.000	29.205	29.26	1.156	1.158	89.102	89.1	0.594	
27	27 13C-2,3,4,7,8-PeCDF	8.35e4	1.68	NO	0.969	1.000	30.097	30.19	1.191	1.194	86.064	86.1	0.610	
28	28 13C-1,2,3,4,7,8-HxCDF	6.72e4	0.50	NO	1.06	1.000	32.870	32.87	0.988	0.988	89.967	90.0	0.773	
29	29 13C-1,2,3,6,7,8-HxCDF	7.44e4	0.51	NO	1.18	1.000	33.003	32.99	0.992	0.992	89.740	89.7	0.696	
30	30 13C-2,3,4,6,7,8-HxCDF	6.61e4	0.50	NO	1.06	1.000	33.572	33.59	1.009	1.010	88.678	88.7	0.774	
31	31 13C-1,2,3,7,8,9-HxCDF	5.56e4	0.51	NO	0.879	1.000	34.467	34.51	1.036	1.037	89.599	89.6	0.930	
32	32 13C-1,2,3,4,6,7,8-HpCDF	5.53e4	0.45	NO	0.893	1.000	36.164	36.32	1.087	1.092	87.812	87.8	0.737	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.60e4	0.42	NO	0.613	1.000	38.160	38.15	1.147	1.147	83.156	83.2	1.07	
34	34 13C-OCDF	8.54e4	0.85	NO	0.741	1.000	40.721	41.06	1.224	1.234	163.34	81.7	0.958	

Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

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Name: 200309D1\_2, Date: 09-Mar-2020, Time: 13:13:59, ID: ST200309D1-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
35	35 37Cl-2,3,7,8-TCDD	3.46e2			1.18	1.000	25.925	25.90	1.026	1.025	0.46531	93.1	0.0580	
36	36 13C-1,2,3,4-TCDD	6.31e4	0.76	NO	1.00	1.000	25.440	25.27	1.000	1.000	100.00	100	0.973	
37	37 13C-1,2,3,4-TCDF	1.00e5	0.74	NO	1.00	1.000	23.970	23.77	1.000	1.000	100.00	100	0.781	
38	38 13C-1,2,3,4,6,9-HxCDF	7.06e4	0.51	NO	1.00	1.000	33.260	33.27	1.000	1.000	100.00	100	0.818	

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Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

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Name: 200309D1\_3, Date: 09-Mar-2020, Time: 13:58:44, ID: ST200309D1-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

#	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	1.33e3	0.84	NO	0.987	1.000	25.898	25.88	1.001	1.001	1.9943	99.7	0.132	1.99
2	2 1,2,3,7,8-PeCDD	5.19e3	0.68	NO	0.982	1.000	30.488	30.47	1.001	1.000	9.6066	96.1	0.122	9.61
3	3 1,2,3,4,7,8-HxCDD	5.25e3	1.21	NO	1.17	1.000	33.751	33.76	1.000	1.001	10.317	103	0.203	10.3
4	4 1,2,3,6,7,8-HxCDD	5.81e3	1.28	NO	1.04	1.000	33.851	33.86	1.000	1.000	10.153	102	0.202	10.2
5	5 1,2,3,7,8,9-HxCDD	5.12e3	1.23	NO	1.00	1.000	34.181	34.16	1.001	1.000	9.7729	97.7	0.222	9.77
6	6 1,2,3,4,6,7,8-HpCDD	4.11e3	1.06	NO	0.992	1.000	37.637	37.64	1.000	1.000	9.1270	91.3	0.292	9.13
7	7 OCDD	7.01e3	0.98	NO	1.04	1.000	40.841	40.85	1.000	1.000	18.831	94.2	0.499	18.8
8	8 2,3,7,8-TCDF	1.84e3	0.88	NO	0.882	1.000	25.097	25.07	1.001	1.000	1.9875	99.4	0.0873	1.99
9	9 1,2,3,7,8-PeCDF	9.45e3	1.52	NO	1.05	1.000	29.280	29.28	1.001	1.001	9.7097	97.1	0.108	9.71
10	10 2,3,4,7,8-PeCDF	9.41e3	1.59	NO	1.06	1.000	30.195	30.19	1.001	1.001	10.078	101	0.108	10.1
11	11 1,2,3,4,7,8-HxCDF	7.56e3	1.24	NO	1.08	1.000	32.863	32.89	1.000	1.001	10.081	101	0.187	10.1
12	12 1,2,3,6,7,8-HxCDF	8.06e3	1.24	NO	1.04	1.000	33.005	33.01	1.000	1.000	9.9232	99.2	0.180	9.92
13	13 2,3,4,6,7,8-HxCDF	7.62e3	1.25	NO	1.11	1.000	33.610	33.59	1.001	1.000	9.7731	97.7	0.204	9.77
14	14 1,2,3,7,8,9-HxCDF	6.08e3	1.24	NO	1.06	1.000	34.509	34.53	1.000	1.001	10.241	102	0.284	10.2
15	15 1,2,3,4,6,7,8-HpCDF	6.50e3	0.98	NO	1.13	1.000	36.356	36.34	1.001	1.001	9.8699	98.7	0.207	9.87
16	16 1,2,3,4,7,8,9-HpCDF	5.08e3	1.13	NO	1.33	1.000	38.152	38.16	1.000	1.000	9.5761	95.8	0.214	9.58
17	17 OCDF	8.47e3	0.93	NO	0.933	1.000	41.060	41.07	1.000	1.000	19.817	99.1	0.376	19.8
18	18 13C-2,3,7,8-TCDD	6.75e4	0.76	NO	1.21	1.000	25.943	25.87	1.026	1.023	86.833	86.8	0.686	
19	19 13C-1,2,3,7,8-PeCDD	5.49e4	0.63	NO	0.996	1.000	30.393	30.47	1.202	1.205	85.593	85.6	0.482	
20	20 13C-1,2,3,4,7,8-HxCDD	4.33e4	1.31	NO	0.679	1.000	33.735	33.74	1.014	1.014	85.583	85.6	0.680	
21	21 13C-1,2,3,6,7,8-HxCDD	5.52e4	1.34	NO	0.850	1.000	33.845	33.85	1.017	1.017	87.110	87.1	0.543	
22	22 13C-1,2,3,7,8,9-HxCDD	5.22e4	1.32	NO	0.798	1.000	34.114	34.15	1.025	1.026	87.691	87.7	0.578	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.54e4	1.09	NO	0.697	1.000	37.561	37.63	1.129	1.131	87.366	87.4	0.858	
24	24 13C-OCDD	7.19e4	0.87	NO	0.579	1.000	40.569	40.84	1.219	1.228	166.63	83.3	1.24	
25	25 13C-2,3,7,8-TCDF	1.05e5	0.79	NO	1.13	1.000	25.033	25.07	0.990	0.992	86.283	86.3	0.579	
26	26 13C-1,2,3,7,8-PeCDF	9.31e4	1.71	NO	0.996	1.000	29.223	29.26	1.156	1.157	86.564	86.6	0.597	
27	27 13C-2,3,4,7,8-PeCDF	8.81e4	1.64	NO	0.969	1.000	30.115	30.17	1.191	1.193	84.144	84.1	0.613	
28	28 13C-1,2,3,4,7,8-HxCDF	6.92e4	0.52	NO	1.06	1.000	32.870	32.86	0.988	0.988	87.755	87.8	0.692	
29	29 13C-1,2,3,6,7,8-HxCDF	7.79e4	0.50	NO	1.18	1.000	33.003	32.99	0.992	0.992	88.899	88.9	0.623	
30	30 13C-2,3,4,6,7,8-HxCDF	7.02e4	0.49	NO	1.06	1.000	33.572	33.58	1.009	1.009	89.104	89.1	0.693	
31	31 13C-1,2,3,7,8,9-HxCDF	5.62e4	0.50	NO	0.879	1.000	34.467	34.51	1.036	1.037	85.675	85.7	0.833	
32	32 13C-1,2,3,4,6,7,8-HpCDF	5.84e4	0.44	NO	0.893	1.000	36.164	36.32	1.087	1.092	87.725	87.7	0.660	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.98e4	0.45	NO	0.613	1.000	38.160	38.15	1.147	1.147	87.041	87.0	0.961	
34	34 13C-OCDF	9.16e4	0.89	NO	0.741	1.000	40.722	41.06	1.224	1.234	165.73	82.9	0.674	

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Name: 200309D1\_3, Date: 09-Mar-2020, Time: 13:58:44, ID: ST200309D1-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
35	35 37Cl-2,3,7,8-TCDD	1.36e3			1.18	1.000	25.941	25.88	1.026	1.024	1.7827	89.1	0.0590	
36	36 13C-1,2,3,4-TCDD	6.45e4	0.81	NO	1.00	1.000	25.440	25.29	1.000	1.000	100.00	100	0.827	
37	37 13C-1,2,3,4-TCDF	1.08e5	0.74	NO	1.00	1.000	23.970	23.80	1.000	1.000	100.00	100	0.652	
38	38 13C-1,2,3,4,6,9-HxCDF	7.46e4	0.51	NO	1.00	1.000	33.260	33.27	1.000	1.000	100.00	100	0.732	

Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

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Name: 200309D1\_4, Date: 09-Mar-2020, Time: 14:43:39, ID: ST200309D1-4 1613 CS4 19L2306, Description: 1613 CS4 19L2306

#	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	2.62e4	0.78	NO	0.987	1.000	25.898	25.90	1.001	1.001	39.325	98.3	0.180	39.3
2	2 1,2,3,7,8-PeCDD	1.12e5	0.62	NO	0.982	1.000	30.488	30.49	1.001	1.001	205.44	103	0.238	205
3	3 1,2,3,4,7,8-HxCDD	1.15e5	1.27	NO	1.17	1.000	33.773	33.77	1.000	1.000	199.05	99.5	0.343	199
4	4 1,2,3,6,7,8-HxCDD	1.24e5	1.25	NO	1.04	1.000	33.873	33.88	1.000	1.000	199.49	99.7	0.369	199
5	5 1,2,3,7,8,9-HxCDD	1.18e5	1.27	NO	1.00	1.000	34.192	34.17	1.001	1.000	203.80	102	0.410	204
6	6 1,2,3,4,6,7,8-HpCDD	1.01e5	1.07	NO	0.992	1.000	37.648	37.65	1.000	1.000	208.09	104	0.559	208
7	7 OCDD	1.78e5	0.93	NO	1.04	1.000	40.841	40.85	1.000	1.000	409.83	102	0.994	410
8	8 2,3,7,8-TCDF	3.49e4	0.74	NO	0.882	1.000	25.097	25.09	1.001	1.001	37.585	94.0	0.111	37.6
9	9 1,2,3,7,8-PeCDF	1.99e5	1.61	NO	1.05	1.000	29.300	29.30	1.001	1.001	202.61	101	0.285	203
10	10 2,3,4,7,8-PeCDF	1.95e5	1.60	NO	1.06	1.000	30.216	30.21	1.001	1.001	199.26	99.6	0.284	199
11	11 1,2,3,4,7,8-HxCDF	1.60e5	1.25	NO	1.08	1.000	32.885	32.90	1.000	1.000	199.76	99.9	0.474	200
12	12 1,2,3,6,7,8-HxCDF	1.76e5	1.25	NO	1.04	1.000	33.016	33.02	1.000	1.000	201.37	101	0.492	201
13	13 2,3,4,6,7,8-HxCDF	1.69e5	1.26	NO	1.11	1.000	33.632	33.61	1.001	1.000	201.62	101	0.518	202
14	14 1,2,3,7,8,9-HxCDF	1.35e5	1.24	NO	1.06	1.000	34.531	34.53	1.000	1.000	203.64	102	0.758	204
15	15 1,2,3,4,6,7,8-HpCDF	1.41e5	1.01	NO	1.13	1.000	36.367	36.34	1.001	1.000	199.39	99.7	0.583	199
16	16 1,2,3,4,7,8,9-HpCDF	1.18e5	1.03	NO	1.33	1.000	38.153	38.16	1.000	1.000	196.14	98.1	0.588	196
17	17 OCDF	2.16e5	0.89	NO	0.933	1.000	41.061	41.07	1.000	1.000	418.95	105	0.740	419
18	18 13C-2,3,7,8-TCDD	6.74e4	0.80	NO	1.21	1.000	25.943	25.87	1.026	1.023	104.74	105	0.781	
19	19 13C-1,2,3,7,8-PeCDD	5.55e4	0.62	NO	0.996	1.000	30.393	30.47	1.202	1.205	104.59	105	0.335	
20	20 13C-1,2,3,4,7,8-HxCDD	4.94e4	1.30	NO	0.679	1.000	33.757	33.76	1.014	1.014	106.08	106	0.701	
21	21 13C-1,2,3,6,7,8-HxCDD	5.99e4	1.39	NO	0.850	1.000	33.867	33.87	1.017	1.017	102.78	103	0.560	
22	22 13C-1,2,3,7,8,9-HxCDD	5.76e4	1.37	NO	0.798	1.000	34.137	34.16	1.025	1.026	105.18	105	0.596	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.89e4	1.06	NO	0.697	1.000	37.586	37.64	1.129	1.131	102.16	102	0.741	
24	24 13C-OCDD	8.39e4	0.89	NO	0.579	1.000	40.595	40.84	1.219	1.227	211.07	106	1.44	
25	25 13C-2,3,7,8-TCDF	1.05e5	0.77	NO	1.13	1.000	25.033	25.07	0.990	0.992	105.13	105	0.636	
26	26 13C-1,2,3,7,8-PeCDF	9.40e4	1.56	NO	0.996	1.000	29.223	29.28	1.156	1.158	106.33	106	0.706	
27	27 13C-2,3,4,7,8-PeCDF	9.25e4	1.61	NO	0.969	1.000	30.115	30.19	1.191	1.194	107.56	108	0.726	
28	28 13C-1,2,3,4,7,8-HxCDF	7.40e4	0.50	NO	1.06	1.000	32.892	32.89	0.988	0.988	101.98	102	0.732	
29	29 13C-1,2,3,6,7,8-HxCDF	8.37e4	0.51	NO	1.18	1.000	33.025	33.01	0.992	0.991	103.74	104	0.658	
30	30 13C-2,3,4,6,7,8-HxCDF	7.56e4	0.51	NO	1.06	1.000	33.594	33.60	1.009	1.009	104.20	104	0.732	
31	31 13C-1,2,3,7,8,9-HxCDF	6.28e4	0.51	NO	0.879	1.000	34.490	34.53	1.036	1.037	104.13	104	0.880	
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.29e4	0.43	NO	0.893	1.000	36.188	36.33	1.087	1.091	102.64	103	0.760	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.51e4	0.40	NO	0.613	1.000	38.185	38.15	1.147	1.146	107.20	107	1.11	
34	34 13C-OCDF	1.10e5	0.87	NO	0.741	1.000	40.749	41.06	1.224	1.233	216.88	108	0.988	



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Name: 200309D1\_4, Date: 09-Mar-2020, Time: 14:43:39, ID: ST200309D1-4 1613 CS4 19L2306, Description: 1613 CS4 19L2306

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
35	35 37Cl-2,3,7,8-TCDD	2.63e4			1.18	1.000	25.941	25.90	1.026	1.024	41.856	105	0.130	
36	36 13C-1,2,3,4-TCDD	5.33e4	0.79	NO	1.00	1.000	25.440	25.29	1.000	1.000	100.00	100	0.942	
37	37 13C-1,2,3,4-TCDF	8.88e4	0.77	NO	1.00	1.000	23.970	23.79	1.000	1.000	100.00	100	0.717	
38	38 13C-1,2,3,4,6,9-HxCDF	6.86e4	0.52	NO	1.00	1.000	33.260	33.29	1.000	1.000	100.00	100	0.774	

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Name: 200309D1\_5, Date: 09-Mar-2020, Time: 15:28:28, ID: ST200309D1-5 1613 CS5 19L2307, Description: 1613 CS5 19L2307

#	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	2.32e5	0.77	NO	0.987	1.000	25.913	25.90	1.001	1.001	327.37	109	0.234	327
2	2 1,2,3,7,8-PeCDD	9.76e5	0.63	NO	0.982	1.000	30.488	30.49	1.001	1.001	1612.8	108	0.392	1610
3	3 1,2,3,4,7,8-HxCDD	1.01e6	1.25	NO	1.17	1.000	33.762	33.76	1.000	1.000	1623.4	108	0.881	1620
4	4 1,2,3,6,7,8-HxCDD	1.05e6	1.26	NO	1.04	1.000	33.862	33.87	1.000	1.000	1604.8	107	0.891	1600
5	5 1,2,3,7,8,9-HxCDD	1.01e6	1.24	NO	1.00	1.000	34.181	34.16	1.001	1.000	1673.1	112	0.950	1670
6	6 1,2,3,4,6,7,8-HpCDD	9.00e5	1.03	NO	0.992	1.000	37.637	37.64	1.000	1.000	1604.4	107	1.42	1600
7	7 OCDD	1.63e6	0.89	NO	1.04	1.000	40.852	40.86	1.000	1.000	3041.1	101	1.86	3040
8	8 2,3,7,8-TCDF	3.02e5	0.76	NO	0.882	1.000	25.097	25.09	1.001	1.001	303.14	101	0.185	303
9	9 1,2,3,7,8-PeCDF	1.61e6	1.56	NO	1.05	1.000	29.300	29.30	1.001	1.001	1550.4	103	0.447	1550
10	10 2,3,4,7,8-PeCDF	1.64e6	1.56	NO	1.06	1.000	30.216	30.19	1.001	1.000	1569.6	105	0.436	1570
11	11 1,2,3,4,7,8-HxCDF	1.35e6	1.24	NO	1.08	1.000	32.874	32.89	1.000	1.000	1549.7	103	0.869	1550
12	12 1,2,3,6,7,8-HxCDF	1.46e6	1.25	NO	1.04	1.000	33.005	33.02	1.000	1.001	1594.8	106	0.890	1590
13	13 2,3,4,6,7,8-HxCDF	1.42e6	1.24	NO	1.11	1.000	33.610	33.60	1.001	1.001	1590.7	106	0.922	1590
14	14 1,2,3,7,8,9-HxCDF	1.16e6	1.24	NO	1.06	1.000	34.509	34.53	1.000	1.001	1621.1	108	1.27	1620
15	15 1,2,3,4,6,7,8-HpCDF	1.26e6	1.04	NO	1.13	1.000	36.356	36.34	1.001	1.001	1627.7	109	1.18	1630
16	16 1,2,3,4,7,8,9-HpCDF	1.08e6	1.03	NO	1.33	1.000	38.152	38.16	1.000	1.000	1628.7	109	1.18	1630
17	17 OCDF	1.90e6	0.90	NO	0.933	1.000	41.071	41.08	1.000	1.000	3229.2	108	0.975	3230
18	18 13C-2,3,7,8-TCDD	7.20e4	0.74	NO	1.21	1.000	25.959	25.88	1.026	1.023	104.67	105	0.662	
19	19 13C-1,2,3,7,8-PeCDD	6.16e4	0.62	NO	0.996	1.000	30.412	30.47	1.202	1.204	108.60	109	0.305	
20	20 13C-1,2,3,4,7,8-HxCDD	5.28e4	1.31	NO	0.679	1.000	33.746	33.75	1.014	1.014	111.22	111	0.548	
21	21 13C-1,2,3,6,7,8-HxCDD	6.33e4	1.27	NO	0.850	1.000	33.856	33.86	1.017	1.017	106.39	106	0.438	
22	22 13C-1,2,3,7,8,9-HxCDD	6.01e4	1.32	NO	0.798	1.000	34.125	34.15	1.025	1.026	107.57	108	0.466	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.66e4	1.07	NO	0.697	1.000	37.573	37.63	1.129	1.131	115.97	116	0.730	
24	24 13C-OCDD	1.03e5	0.90	NO	0.579	1.000	40.582	40.85	1.219	1.228	254.77	127	1.05	
25	25 13C-2,3,7,8-TCDF	1.13e5	0.75	NO	1.13	1.000	25.048	25.07	0.990	0.991	105.72	106	0.463	
26	26 13C-1,2,3,7,8-PeCDF	9.94e4	1.62	NO	0.996	1.000	29.240	29.28	1.156	1.157	105.26	105	0.710	
27	27 13C-2,3,4,7,8-PeCDF	9.85e4	1.65	NO	0.969	1.000	30.133	30.19	1.191	1.193	107.22	107	0.730	
28	28 13C-1,2,3,4,7,8-HxCDF	8.03e4	0.49	NO	1.06	1.000	32.881	32.87	0.988	0.988	108.45	108	0.611	
29	29 13C-1,2,3,6,7,8-HxCDF	8.80e4	0.51	NO	1.18	1.000	33.014	32.99	0.992	0.991	106.99	107	0.550	
30	30 13C-2,3,4,6,7,8-HxCDF	8.06e4	0.51	NO	1.06	1.000	33.583	33.58	1.009	1.009	108.86	109	0.612	
31	31 13C-1,2,3,7,8,9-HxCDF	6.79e4	0.50	NO	0.879	1.000	34.478	34.51	1.036	1.037	110.26	110	0.735	
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.88e4	0.44	NO	0.893	1.000	36.176	36.32	1.087	1.091	110.02	110	0.625	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.99e4	0.43	NO	0.613	1.000	38.172	38.15	1.147	1.146	116.26	116	0.910	
34	34 13C-OCDF	1.26e5	0.87	NO	0.741	1.000	40.735	41.07	1.224	1.234	243.03	122	0.651	

Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 17:20:28 Pacific Daylight Time

Printed: Monday, March 09, 2020 17:25:37 Pacific Daylight Time

Name: 200309D1\_5, Date: 09-Mar-2020, Time: 15:28:28, ID: ST200309D1-5 1613 CS5 19L2307, Description: 1613 CS5 19L2307

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
35	35 37Cl-2,3,7,8-TCDD	1.49e5			1.18	1.000	25.956	25.90	1.026	1.024	222.19	111	0.107	
36	36 13C-1,2,3,4-TCDD	5.70e4	0.80	NO	1.00	1.000	25.440	25.30	1.000	1.000	100.00	100	0.799	
37	37 13C-1,2,3,4-TCDF	9.48e4	0.77	NO	1.00	1.000	23.970	23.80	1.000	1.000	100.00	100	0.522	
38	38 13C-1,2,3,4,6,9-HxCDF	7.00e4	0.51	NO	1.00	1.000	33.260	33.28	1.000	1.000	100.00	100	0.646	



Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 17:20:28 Pacific Daylight Time

Printed: Monday, March 09, 2020 17:25:37 Pacific Daylight Time

Name: 200309D1\_6, Date: 09-Mar-2020, Time: 16:13:17, ID: ST200309D1-6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	5.95e3	0.84	NO	0.987	1.000	25.898	25.90	1.001	1.001	10.674	107	0.194	10.7
2	2 1,2,3,7,8-PeCDD	2.35e4	0.63	NO	0.982	1.000	30.488	30.49	1.001	1.001	49.627	99.3	0.344	49.6
3	3 1,2,3,4,7,8-HxCDD	2.32e4	1.30	NO	1.17	1.000	33.773	33.77	1.000	1.000	48.395	96.8	0.509	48.4
4	4 1,2,3,6,7,8-HxCDD	2.48e4	1.22	NO	1.04	1.000	33.862	33.87	1.000	1.000	47.392	94.8	0.461	47.4
5	5 1,2,3,7,8,9-HxCDD	2.27e4	1.22	NO	1.00	1.000	34.181	34.17	1.001	1.001	47.860	95.7	0.560	47.9
6	6 1,2,3,4,6,7,8-HpCDD	1.97e4	1.03	NO	0.992	1.000	37.637	37.65	1.000	1.001	47.566	95.1	0.441	47.6
7	7 OCDD	3.46e4	0.91	NO	1.04	1.000	40.852	40.86	1.000	1.000	101.37	101	0.624	101
8	8 2,3,7,8-TCDF	7.83e3	0.74	NO	0.882	1.000	25.082	25.07	1.001	1.001	9.9734	99.7	0.156	9.97
9	9 1,2,3,7,8-PeCDF	3.93e4	1.62	NO	1.05	1.000	29.300	29.28	1.001	1.000	49.656	99.3	0.270	49.7
10	10 2,3,4,7,8-PeCDF	3.92e4	1.59	NO	1.06	1.000	30.216	30.19	1.001	1.000	48.173	96.3	0.249	48.2
11	11 1,2,3,4,7,8-HxCDF	3.35e4	1.27	NO	1.08	1.000	32.874	32.90	1.000	1.001	47.795	95.6	0.276	47.8
12	12 1,2,3,6,7,8-HxCDF	3.62e4	1.26	NO	1.04	1.000	33.005	33.02	1.000	1.001	49.151	98.3	0.297	49.2
13	13 2,3,4,6,7,8-HxCDF	3.50e4	1.27	NO	1.11	1.000	33.621	33.60	1.001	1.000	50.326	101	0.319	50.3
14	14 1,2,3,7,8,9-HxCDF	2.76e4	1.29	NO	1.06	1.000	34.520	34.53	1.000	1.000	49.086	98.2	0.440	49.1
15	15 1,2,3,4,6,7,8-HpCDF	2.92e4	1.03	NO	1.13	1.000	36.367	36.34	1.001	1.000	50.171	100	0.440	50.2
16	16 1,2,3,4,7,8,9-HpCDF	2.39e4	1.01	NO	1.33	1.000	38.153	38.16	1.000	1.000	48.848	97.7	0.441	48.8
17	17 OCDF	3.98e4	0.90	NO	0.933	1.000	41.061	41.07	1.000	1.000	100.89	101	0.581	101
18	18 13C-2,3,7,8-TCDD	5.65e4	0.75	NO	1.21	1.000	25.943	25.87	1.026	1.023	96.302	96.3	0.696	
19	19 13C-1,2,3,7,8-PeCDD	4.81e4	0.64	NO	0.996	1.000	30.393	30.47	1.202	1.205	99.417	99.4	0.255	
20	20 13C-1,2,3,4,7,8-HxCDD	4.08e4	1.30	NO	0.679	1.000	33.746	33.76	1.014	1.015	100.91	101	0.783	
21	21 13C-1,2,3,6,7,8-HxCDD	5.06e4	1.28	NO	0.850	1.000	33.856	33.86	1.017	1.017	99.923	99.9	0.625	
22	22 13C-1,2,3,7,8,9-HxCDD	4.73e4	1.29	NO	0.798	1.000	34.126	34.15	1.025	1.026	99.381	99.4	0.666	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.19e4	1.09	NO	0.697	1.000	37.574	37.63	1.129	1.131	100.84	101	0.763	
24	24 13C-OCDD	6.60e4	0.90	NO	0.579	1.000	40.582	40.85	1.219	1.228	191.28	95.6	0.964	
25	25 13C-2,3,7,8-TCDF	8.90e4	0.77	NO	1.13	1.000	25.033	25.06	0.990	0.991	97.439	97.4	0.514	
26	26 13C-1,2,3,7,8-PeCDF	7.57e4	1.58	NO	0.996	1.000	29.223	29.28	1.156	1.158	93.786	93.8	0.878	
27	27 13C-2,3,4,7,8-PeCDF	7.68e4	1.61	NO	0.969	1.000	30.115	30.19	1.191	1.194	97.866	97.9	0.902	
28	28 13C-1,2,3,4,7,8-HxCDF	6.48e4	0.50	NO	1.06	1.000	32.881	32.87	0.988	0.988	102.75	103	0.667	
29	29 13C-1,2,3,6,7,8-HxCDF	7.06e4	0.50	NO	1.18	1.000	33.014	33.00	0.992	0.991	100.87	101	0.601	
30	30 13C-2,3,4,6,7,8-HxCDF	6.26e4	0.51	NO	1.06	1.000	33.583	33.59	1.009	1.009	99.391	99.4	0.668	
31	31 13C-1,2,3,7,8,9-HxCDF	5.32e4	0.55	NO	0.879	1.000	34.479	34.52	1.036	1.037	101.58	102	0.803	
32	32 13C-1,2,3,4,6,7,8-HpCDF	5.16e4	0.44	NO	0.893	1.000	36.176	36.33	1.087	1.092	97.081	97.1	0.587	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.67e4	0.42	NO	0.613	1.000	38.173	38.15	1.147	1.146	100.29	100	0.855	
34	34 13C-OCDF	8.45e4	0.90	NO	0.741	1.000	40.735	41.06	1.224	1.234	191.36	95.7	0.540	

Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 17:20:28 Pacific Daylight Time

Printed: Monday, March 09, 2020 17:25:37 Pacific Daylight Time

Name: 200309D1\_6, Date: 09-Mar-2020, Time: 16:13:17, ID: ST200309D1-6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
35	35 37Cl-2,3,7,8-TCDD	5.49e3			1.18	1.000	25.941	25.88	1.026	1.024	9.5783	95.8	0.129	
36	36 13C-1,2,3,4-TCDD	4.86e4	0.80	NO	1.00	1.000	25.440	25.29	1.000	1.000	100.00	100	0.839	
37	37 13C-1,2,3,4-TCDF	8.10e4	0.80	NO	1.00	1.000	23.970	23.80	1.000	1.000	100.00	100	0.580	
38	38 13C-1,2,3,4,6,9-HxCDF	5.96e4	0.48	NO	1.00	1.000	33.260	33.28	1.000	1.000	100.00	100	0.706	

Dataset: Untitled

Last Altered: Monday, March 09, 2020 17:27:14 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:27:43 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CPSM.mdb 05 Mar 2020 16:02:56  
Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-2-27-20.cdb 28 Feb 2020 10:40:27

Name: 200309D1\_6, Date: 09-Mar-2020, Time: 16:13:17, ID: ST200309D1-6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	RT
1	1 1,3,6,8-TCDD (First)	22.35
2	2 1,2,8,9-TCDD (Last)	26.77
3	3 1,2,4,7,9-PeCDD (First)	28.41
4	4 1,2,3,8,9-PeCDD (Last)	30.85
5	5 1,2,4,6,7,9-HxCDD (First)	32.26
6	6 1,2,3,7,8,9-HxCDD (Last)	34.17
7	7 1,2,3,4,6,7,9-HpCDD (First)	36.74
8	8 1,2,3,4,6,7,8-HpCDD (Last)	37.65
9	9 1,3,6,8-TCDF (First)	20.19
10	10 1,2,8,9-TCDF (Last)	26.91
11	11 1,3,4,6,8-PeCDF (First)	26.88
12	12 1,2,3,8,9-PeCDF (Last)	31.07
13	13 1,2,3,4,6,8-HxCDF (First)	31.73
14	14 1,2,3,7,8,9-HxCDF (Last)	34.53
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.34
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.16

Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 09:21:15 Pacific Daylight Time  
Printed: Tuesday, March 10, 2020 09:21:30 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\1613\_rrt.mdb 09 Mar 2020 11:30:34  
Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-2-27-20.cdb 28 Feb 2020 10:40:27

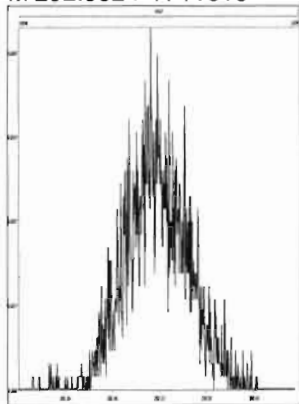
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
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2	200309D1_2	ST200309D1-2 1613 CS1 19L2303	09-Mar-20	13:13:59
3	200309D1_3	ST200309D1-3 1613 CS2 19L2304	09-Mar-20	13:58:44
4	200309D1_4	ST200309D1-4 1613 CS4 19L2306	09-Mar-20	14:43:39
5	200309D1_5	ST200309D1-5 1613 CS5 19L2307	09-Mar-20	15:28:28
6	200309D1_6	ST200309D1-6 1613 CS3 19L2305	09-Mar-20	16:13:17
7	200309D1_7	SOLVENT BLANK	09-Mar-20	16:58:12
8	200309D1_8	SS200309D1-1 1613 SSS 19L2308	09-Mar-20	17:43:01
9	200309D1_9	B0A0186-BS1 OPR 1	09-Mar-20	18:27:57
10	200309D1_10	SOLVENT BLANK	09-Mar-20	19:12:46
11	200309D1_11	B0B0297-BLK1 Method Blank 1	09-Mar-20	19:57:35
12	200309D1_12	B0A0143-BLK1 Method Blank 10	09-Mar-20	20:42:24
13	200309D1_13	B0A0186-BLK1 Method Blank 1	09-Mar-20	21:27:13
14	200309D1_14	2000418-01 GAIN-D-001-C-022620 1	09-Mar-20	22:12:00
15	200309D1_15	2000141-01 RO Brine 1.02453	09-Mar-20	22:56:48
16	200309D1_16	1902883-12RE1 RBC-LMB-1-5-L 25.01	09-Mar-20	23:40:51

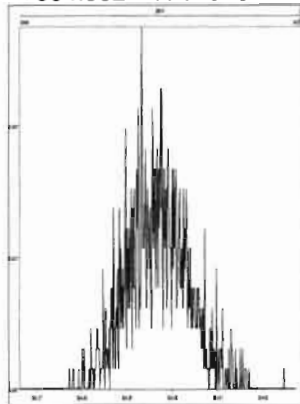
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Printed: Monday, March 09, 2020 12:27:34 Pacific Daylight Time

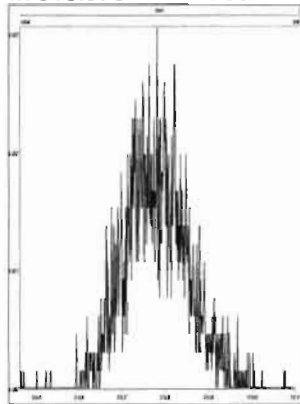
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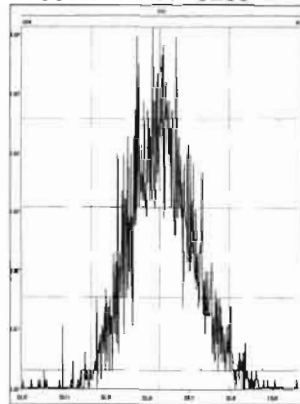
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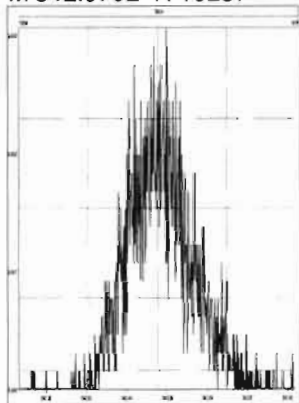
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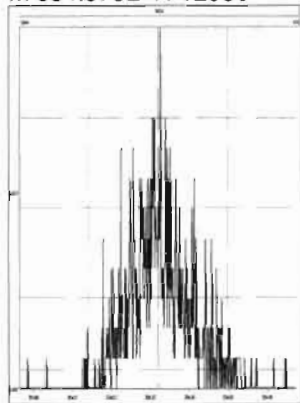
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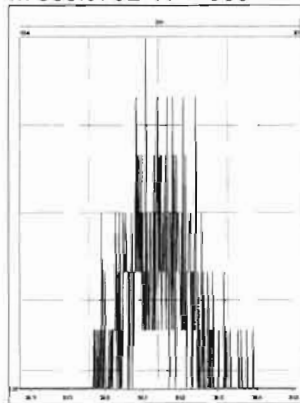
M 342.9792 R 10287



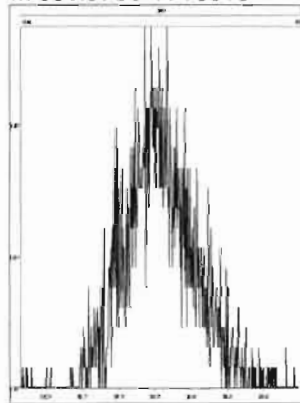
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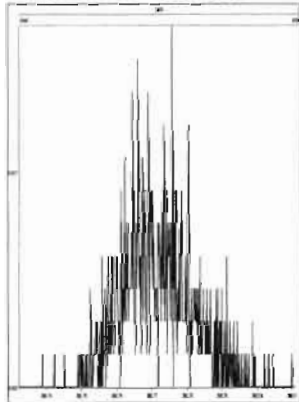
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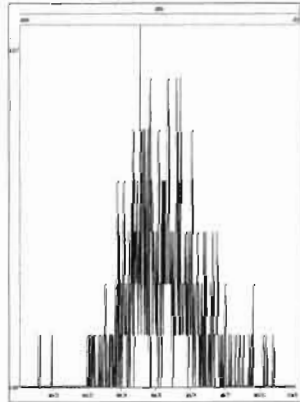
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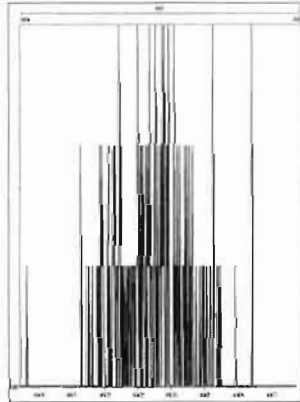
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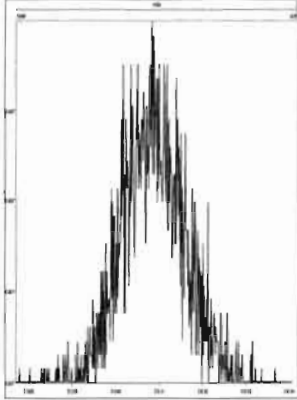
M 416.9760 R 73505



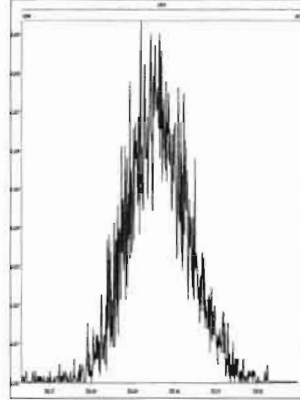
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, March 09, 2020 12:27:59 Pacific Daylight Time

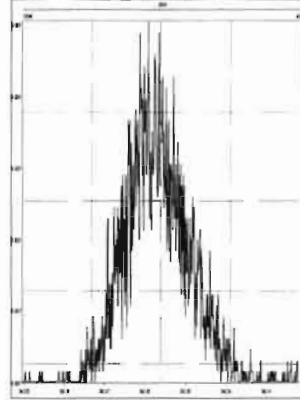
M 318.9792 R 11261



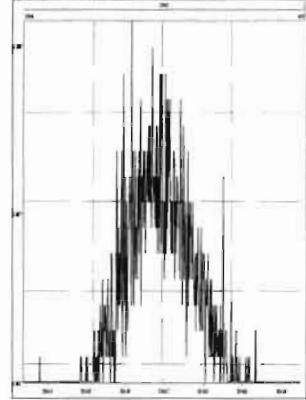
M 330.9792 R 11011



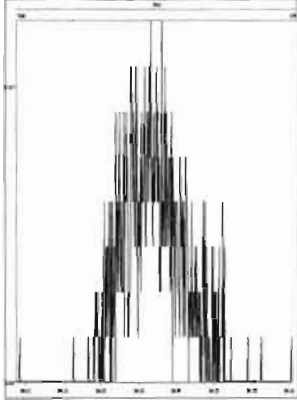
M 342.9792 R 11849



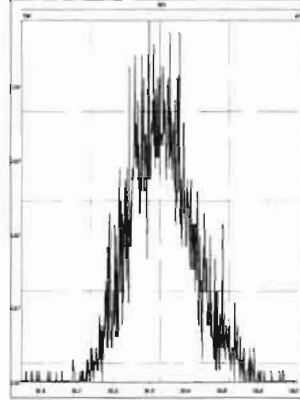
M 354.9792 R 13296



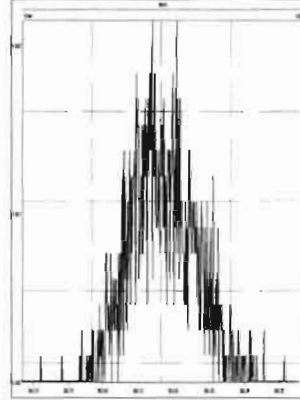
M 366.9792 R 13890



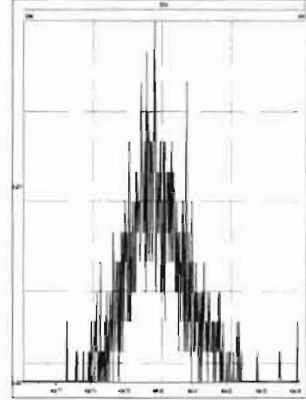
M 380.9760 R 11736



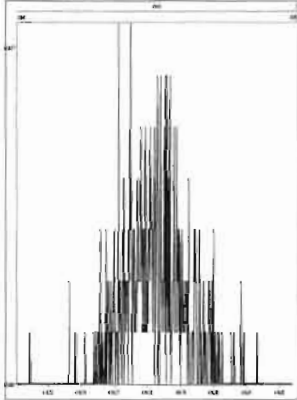
M 392.9760 R 13738



M 404.9760 R 14792



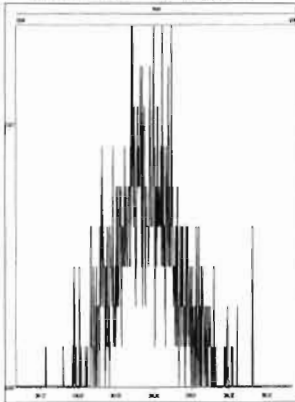
M 416.9760 R 60984



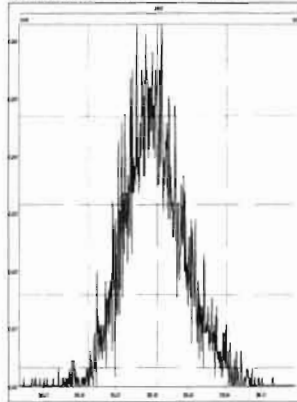
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, March 09, 2020 12:28:21 Pacific Daylight Time

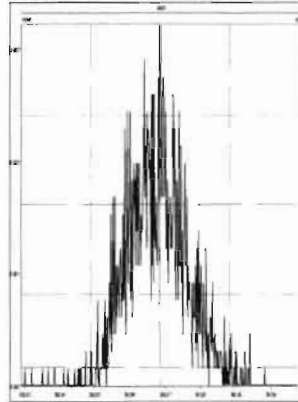
M 366.9792 R 14364



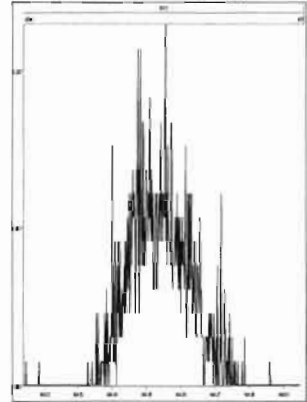
M 380.9760 R 11682



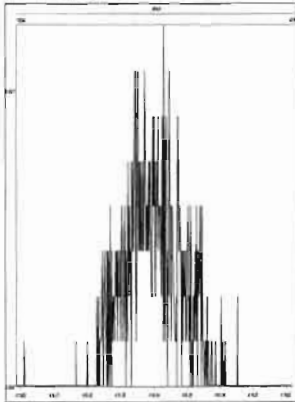
M 392.9760 R 11366



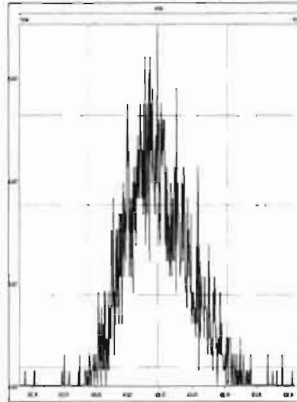
M 404.9760 R 12377



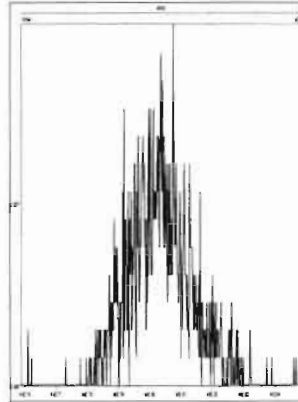
M 416.9760 R 13231



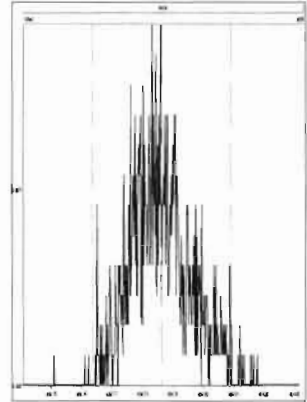
M 430.9728 R 10461



M 442.9728 R 12376



M 454.9728 R 12692

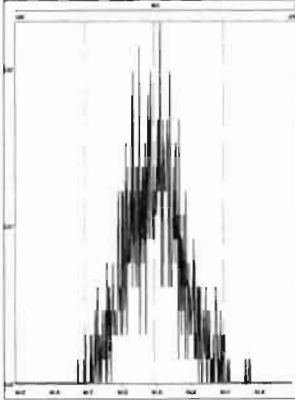




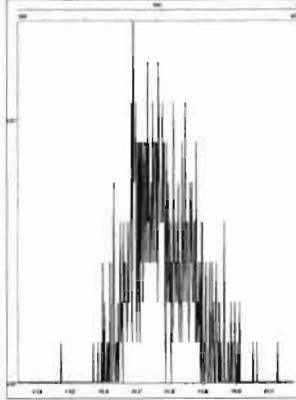
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, March 09, 2020 12:28:48 Pacific Daylight Time

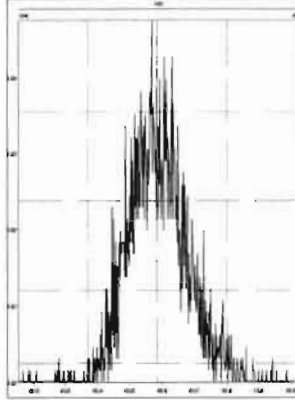
M 404.9760 R 15825



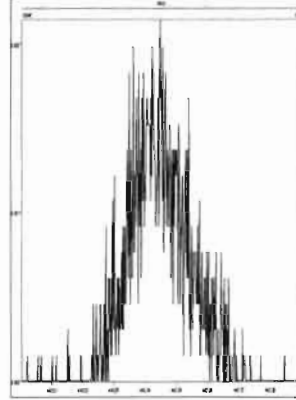
M 416.9760 R 27472



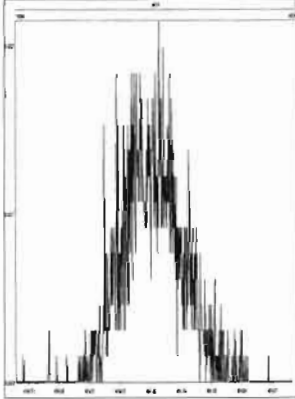
M 430.9728 R 12379



M 442.9728 R 11521



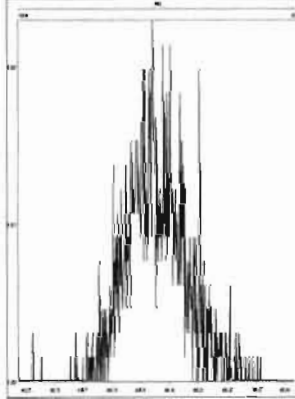
M 454.9728 R 11362



M 466.9728 R 16557



M 480.9696 R 13586

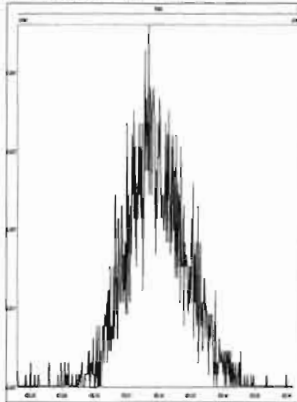




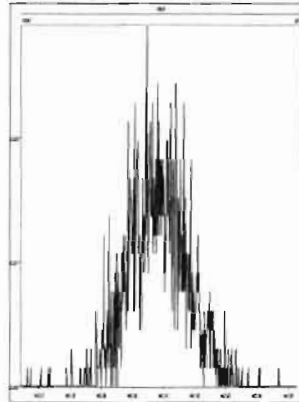
File: Experiment: ocdd\_db5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, March 09, 2020 12:29:46 Pacific Daylight Time

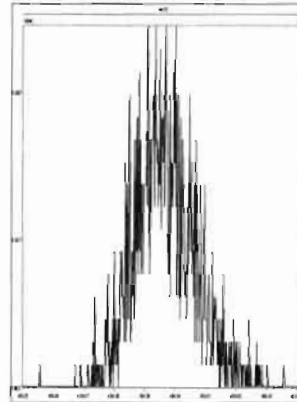
M 430.9728 R 11111



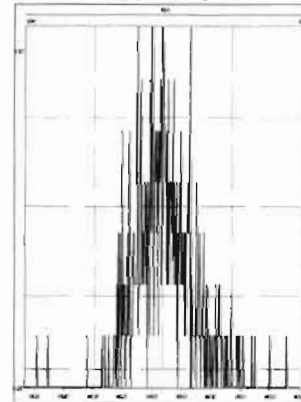
M 442.9728 R 12819



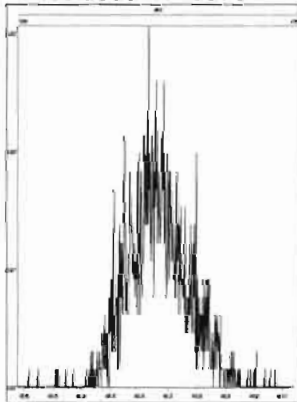
M 454.9728 R 13017



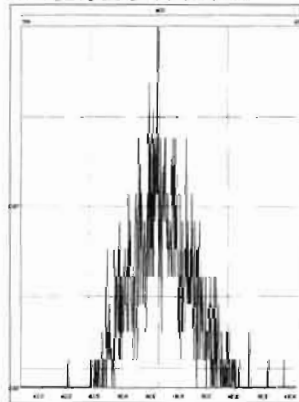
M 466.9728 R 16127



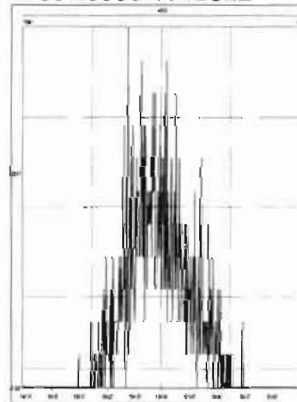
M 480.9696 R 13370



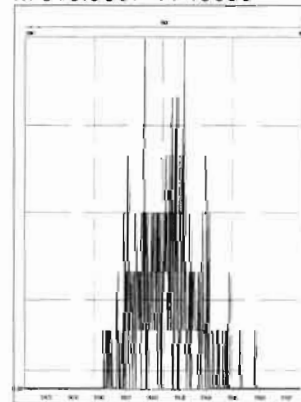
M 492.9696 R 14124

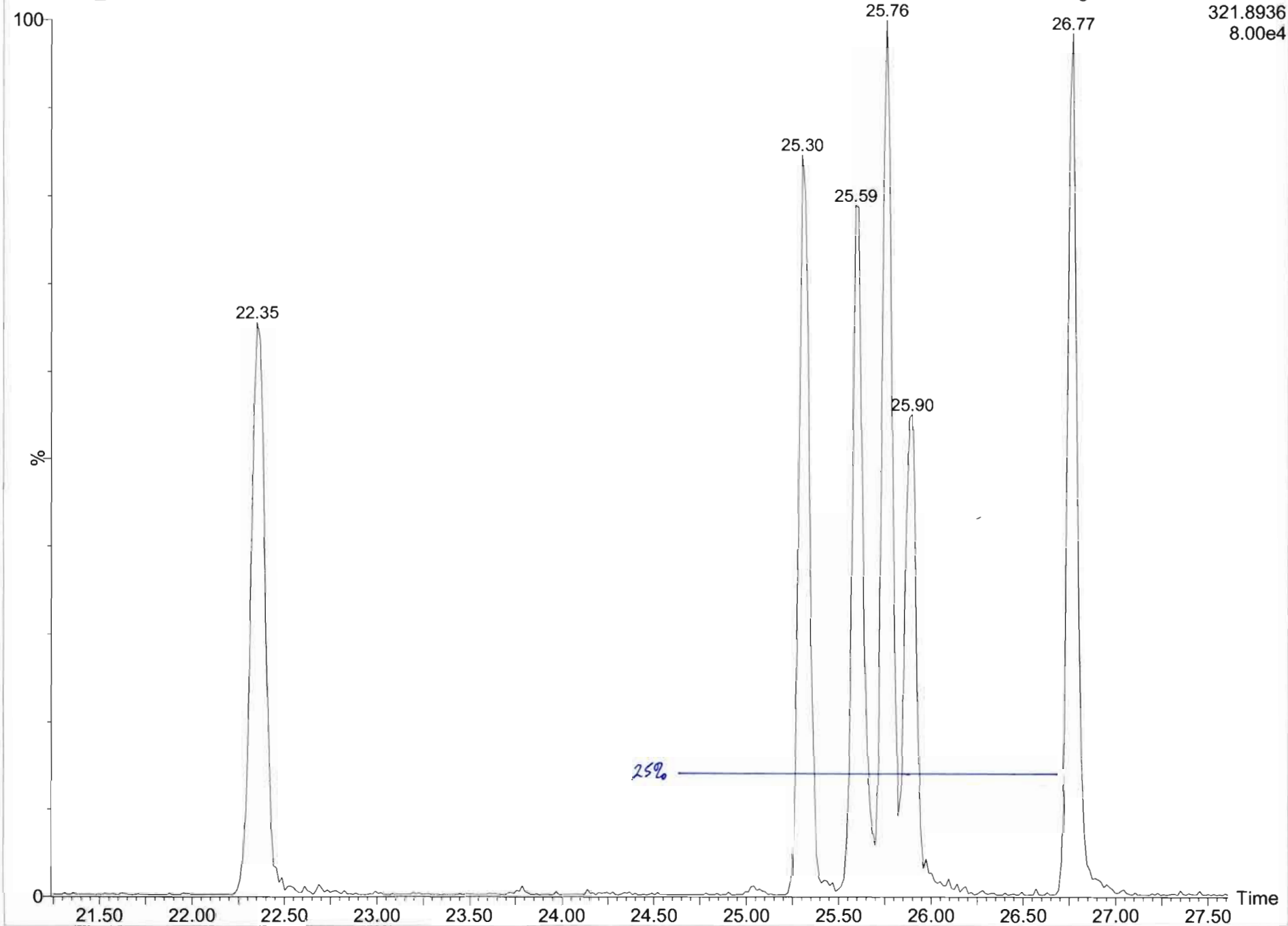


M 504.9696 R 12822



M 516.9697 R 49006





Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

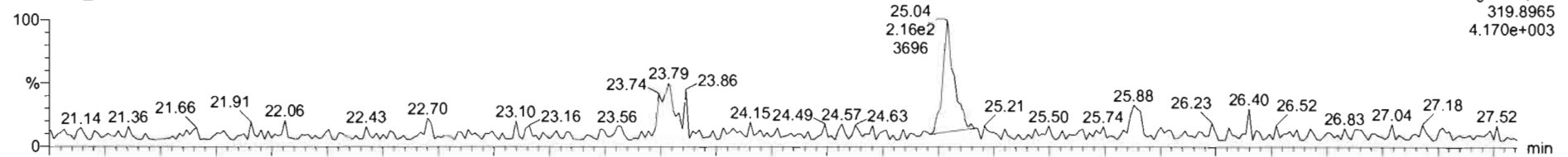
Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 09 Mar 2020 11:30:34  
Calibration: 09 Mar 2020 16:58:54

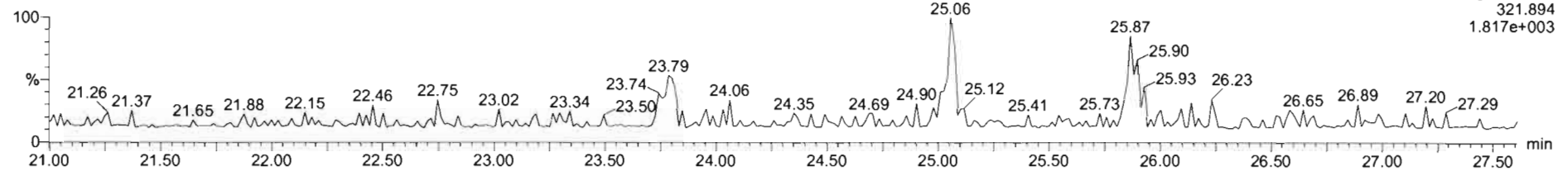
Name: 200309D1\_1, Date: 09-Mar-2020, Time: 12:30:36, ID: ST200309D1-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

**2,3,7,8-TCDD**

200309D1\_1

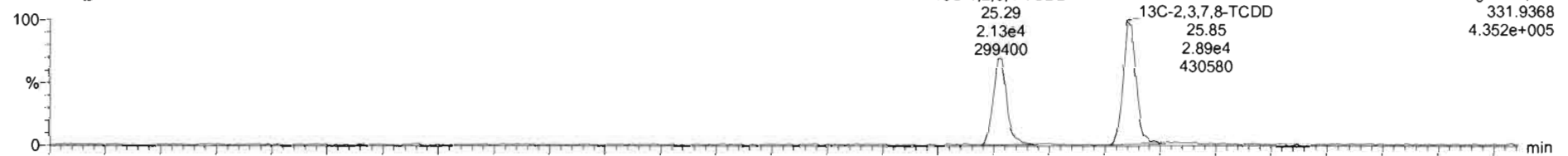


200309D1\_1

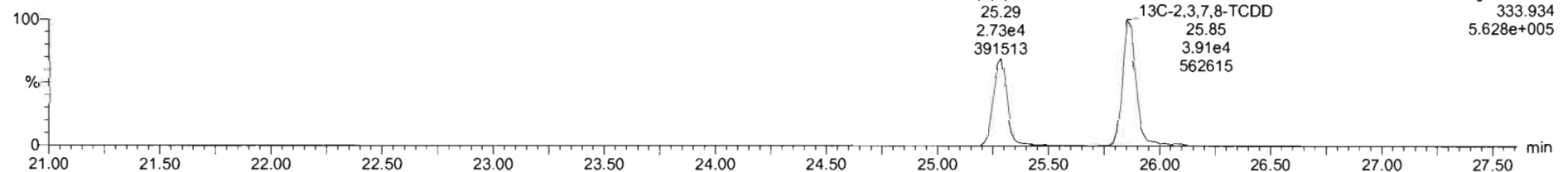


**13C-2,3,7,8-TCDD**

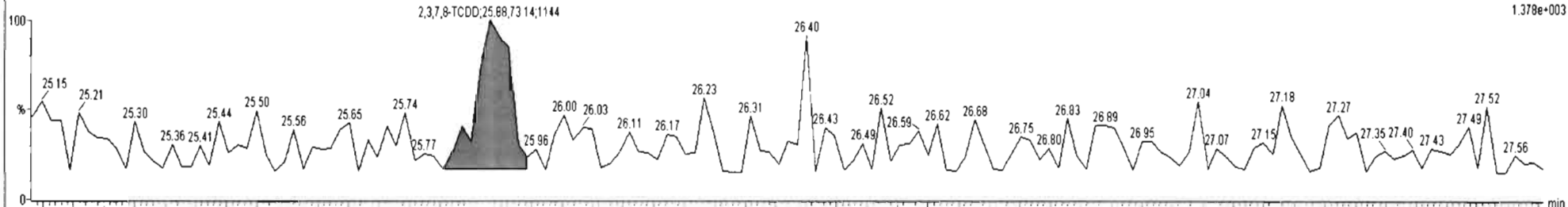
200309D1\_1



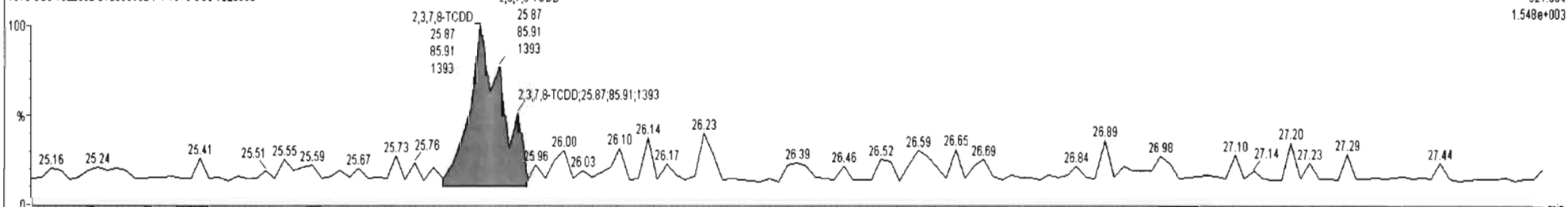
200309D1\_1



200309D1\_1  
1613 CS0 19L2302 ST200309D1-1 1613 CS0 19L2302  
F1:Voltage SIR,EI+  
319.8965  
1.378e+003



200309D1\_1  
1613 CS0 19L2302 ST200309D1-1 1613 CS0 19L2302  
F1:Voltage SIR,EI+  
321.894  
1.548e+003



200309D1\_1  
1613 CS0 19L2302 ST200309D1-1 1613 CS0 19L2302  
F1:Voltage SIR,EI+  
331.9368  
4.352e+005



200309D1\_1  
1613 CS0 19L2302 ST200309D1-1 1613 CS0 19L2302  
F1:Voltage SIR,EI+  
333.934  
5.628e+005



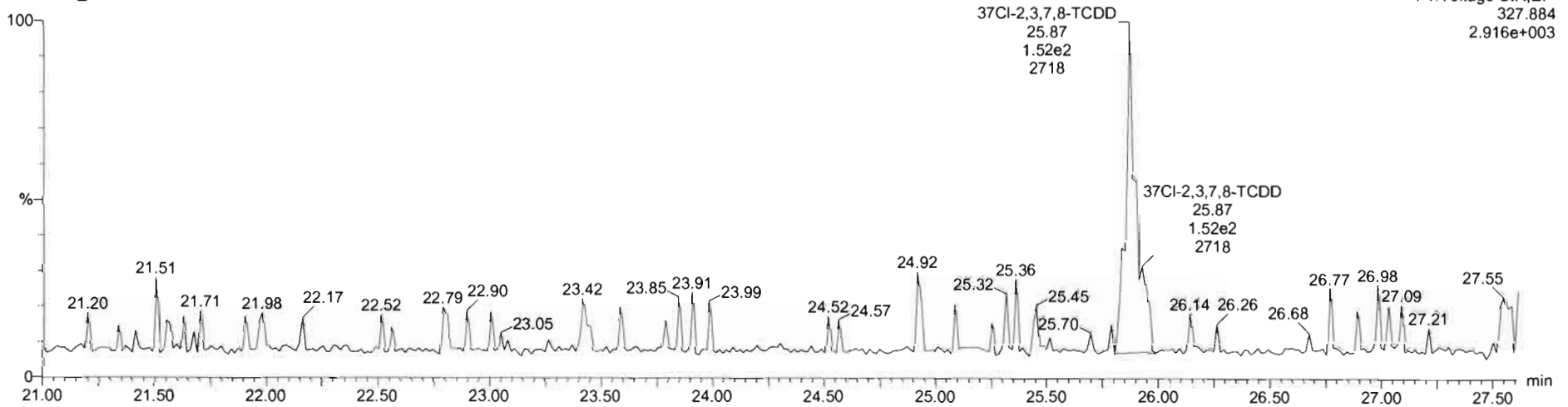
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_1, Date: 09-Mar-2020, Time: 12:30:36, ID: ST200309D1-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200309D1\_1



F1:Voltage SIR,EI+  
327.884  
2.916e+003

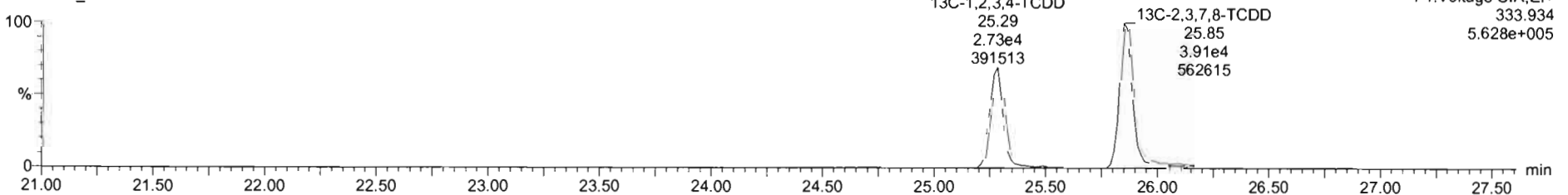
**13C-1,2,3,4-TCDD**

200309D1\_1



F1:Voltage SIR,EI+  
331.9368  
4.352e+005

200309D1\_1



F1:Voltage SIR,EI+  
333.934  
5.628e+005

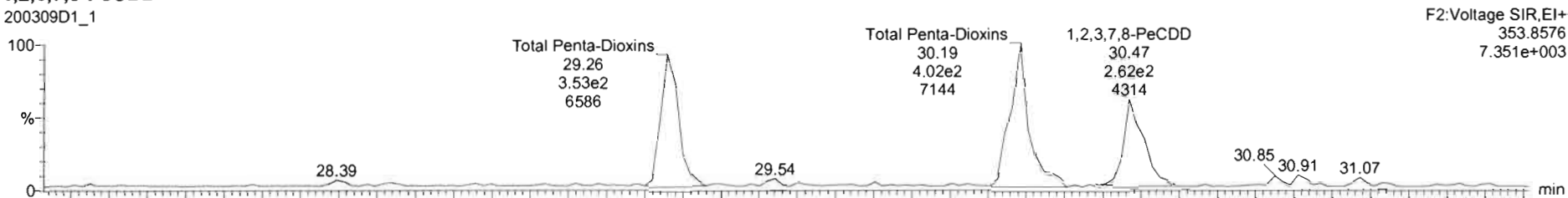
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Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

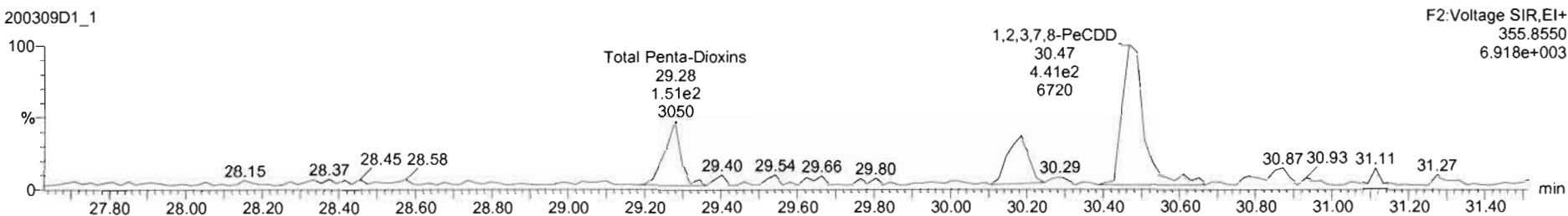
Name: 200309D1\_1, Date: 09-Mar-2020, Time: 12:30:36, ID: ST200309D1-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1,2,3,7,8-PeCDD

200309D1\_1

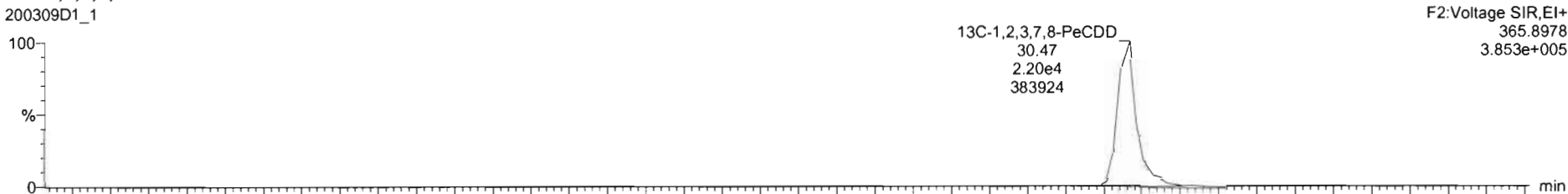


200309D1\_1

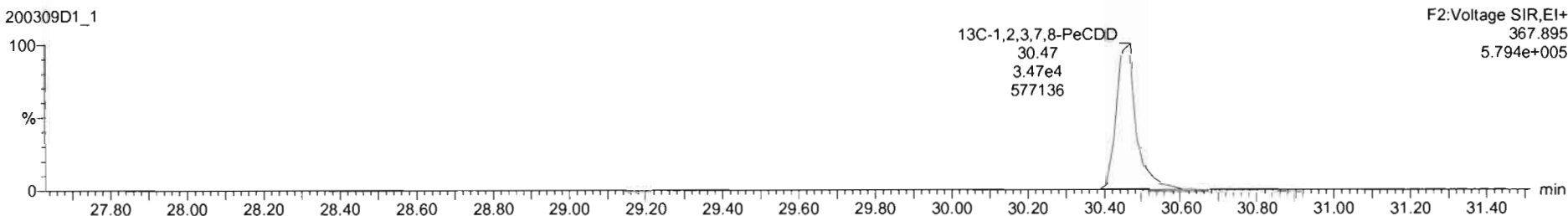


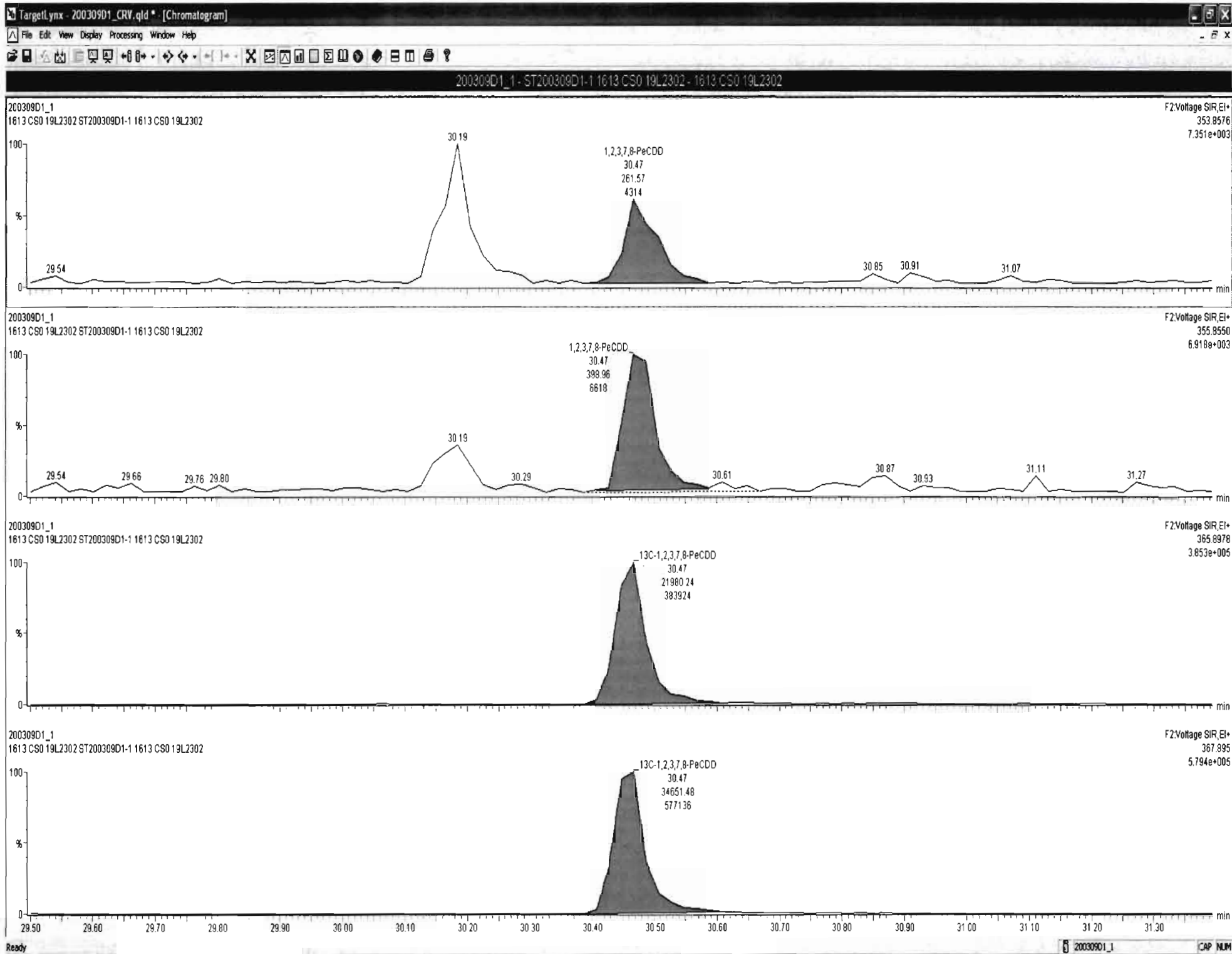
13C-1,2,3,7,8-PeCDD

200309D1\_1



200309D1\_1





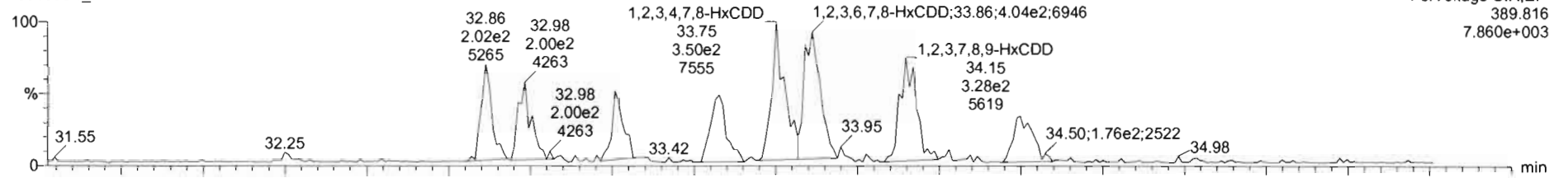
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

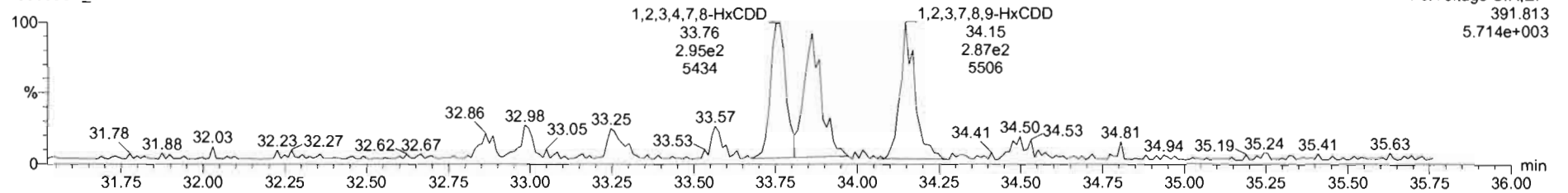
Name: 200309D1\_1, Date: 09-Mar-2020, Time: 12:30:36, ID: ST200309D1-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200309D1\_1

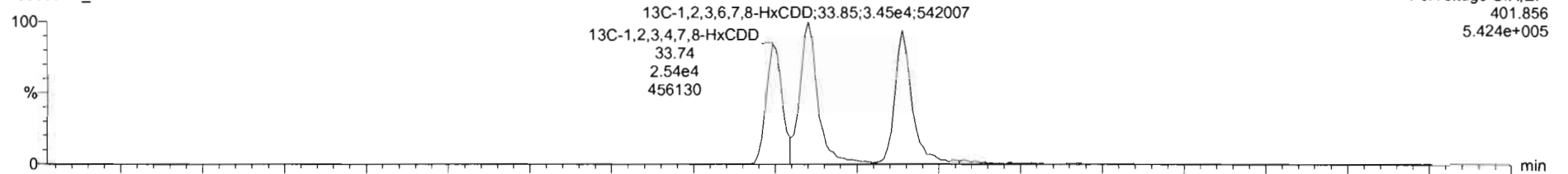


200309D1\_1

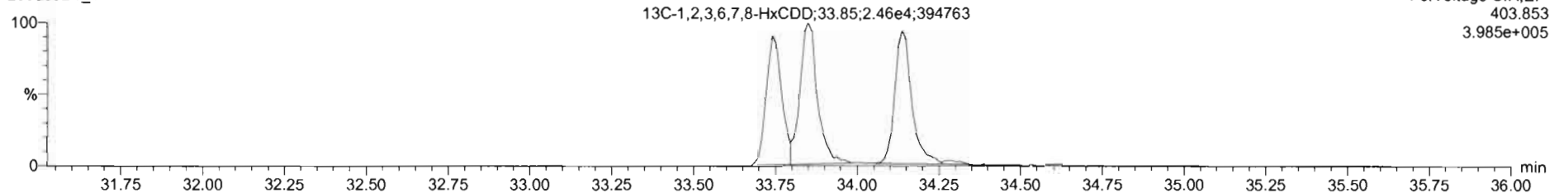


13C-1,2,3,4,7,8-HxCDD

200309D1\_1



200309D1\_1





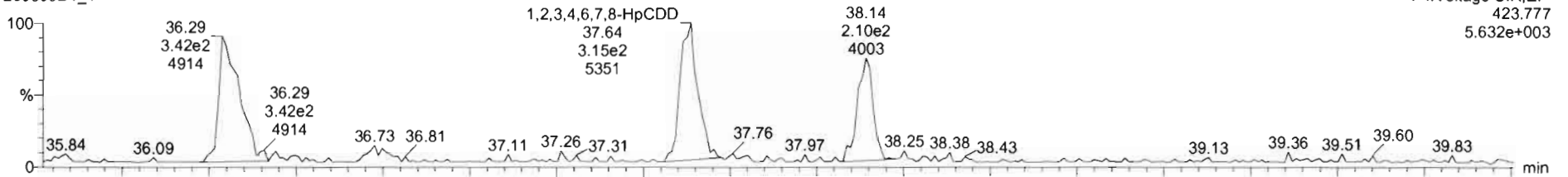
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Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

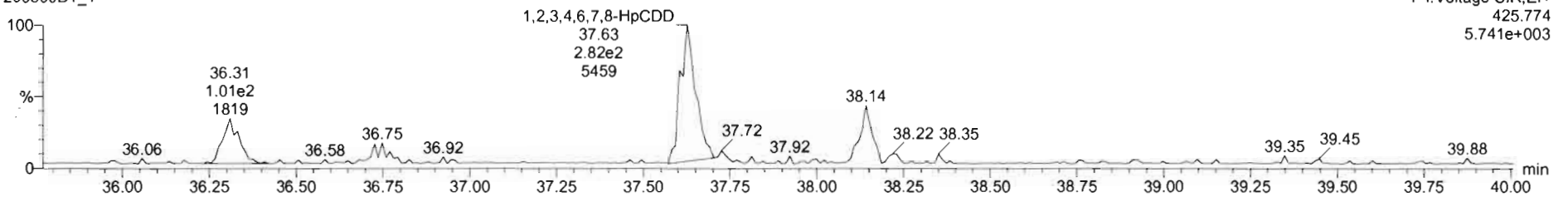
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**1,2,3,4,6,7,8-HpCDD**

200309D1\_1

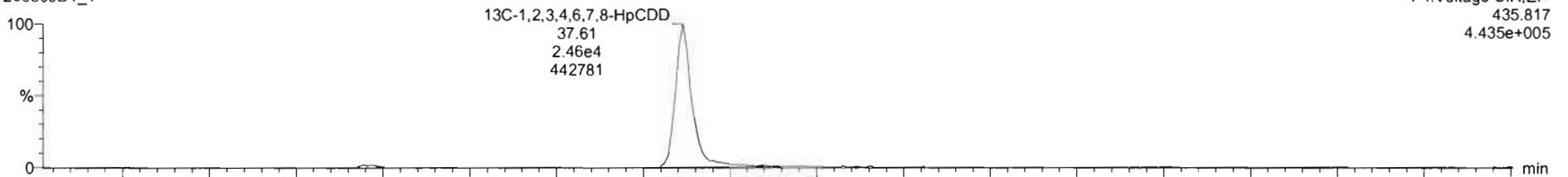


200309D1\_1

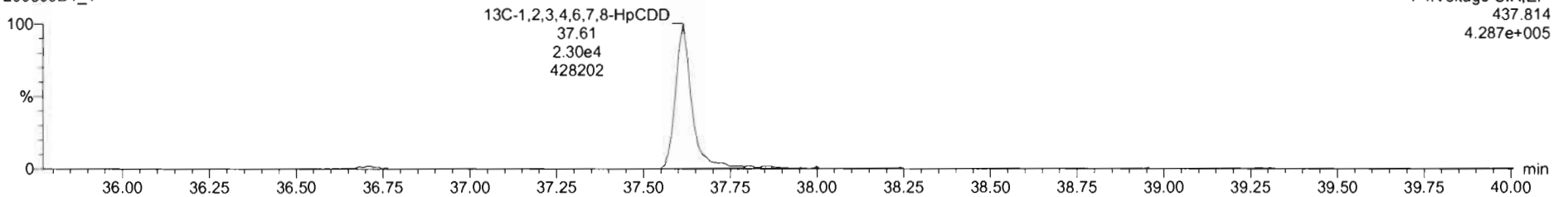


**13C-1,2,3,4,6,7,8-HpCDD**

200309D1\_1



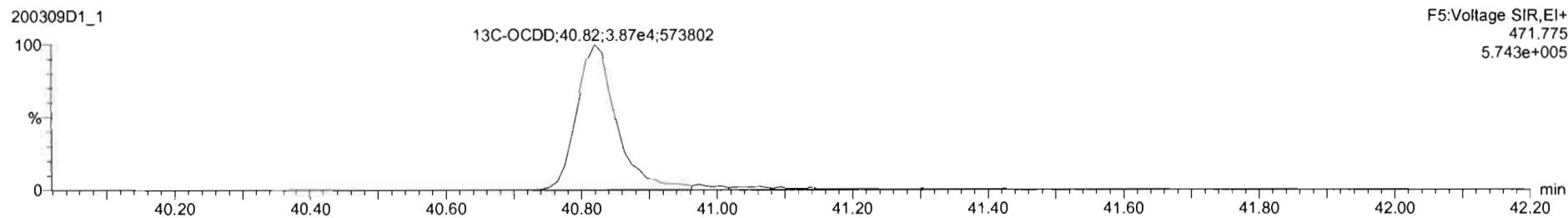
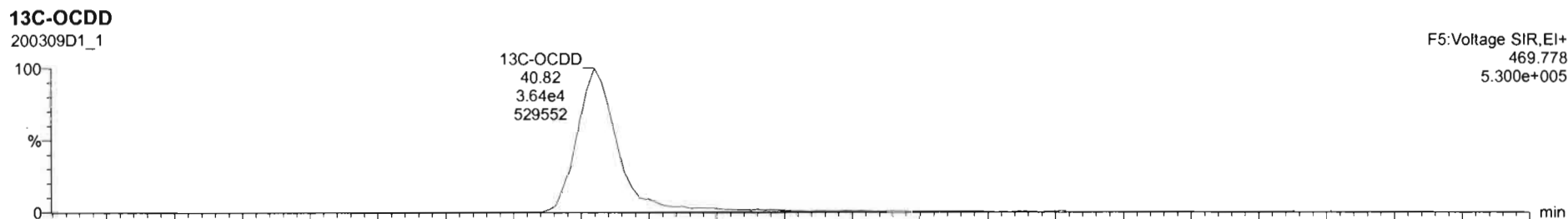
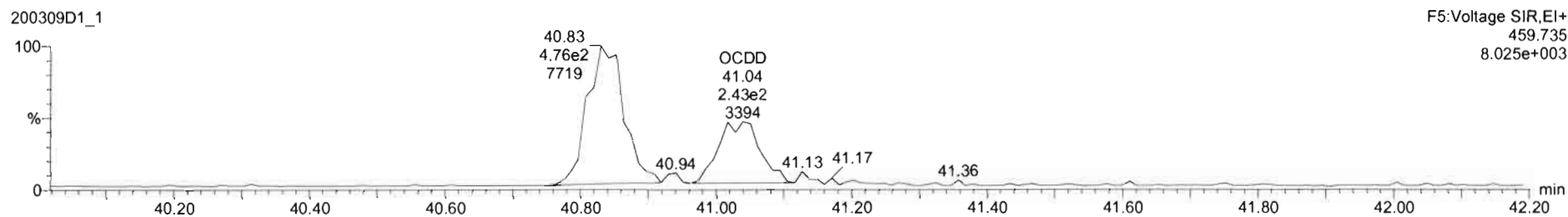
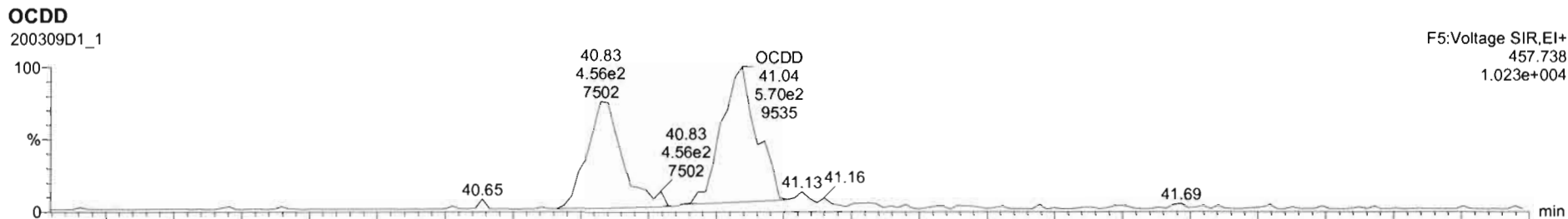
200309D1\_1

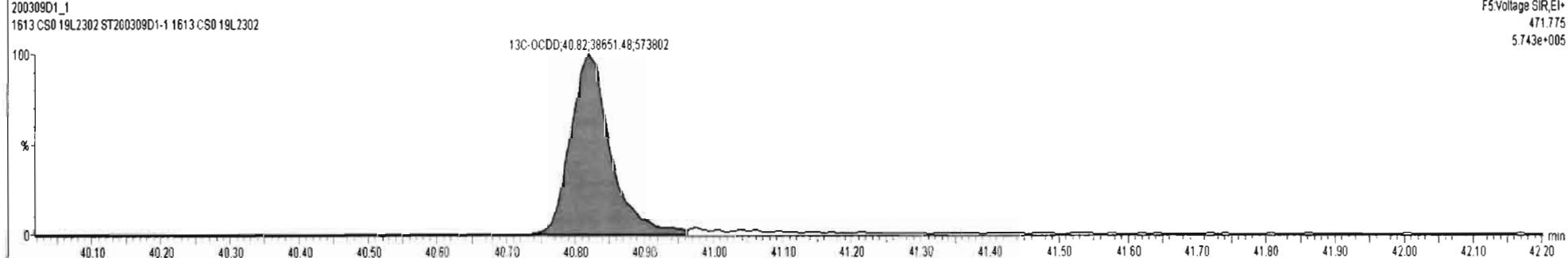
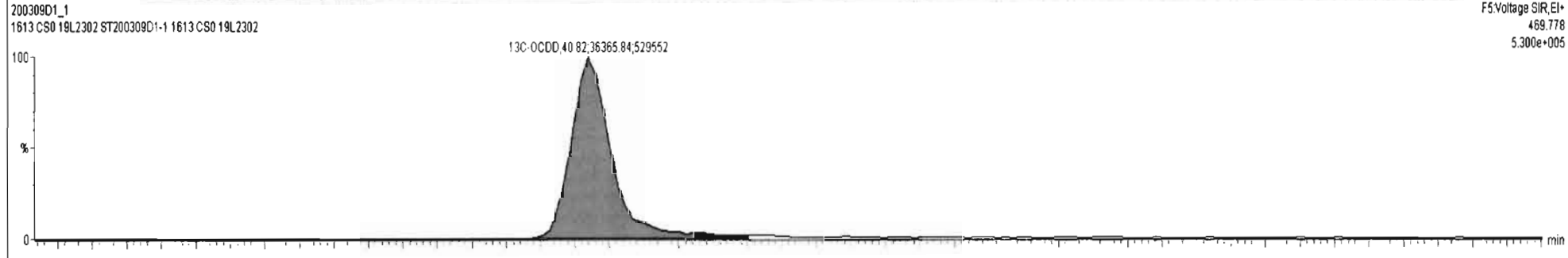
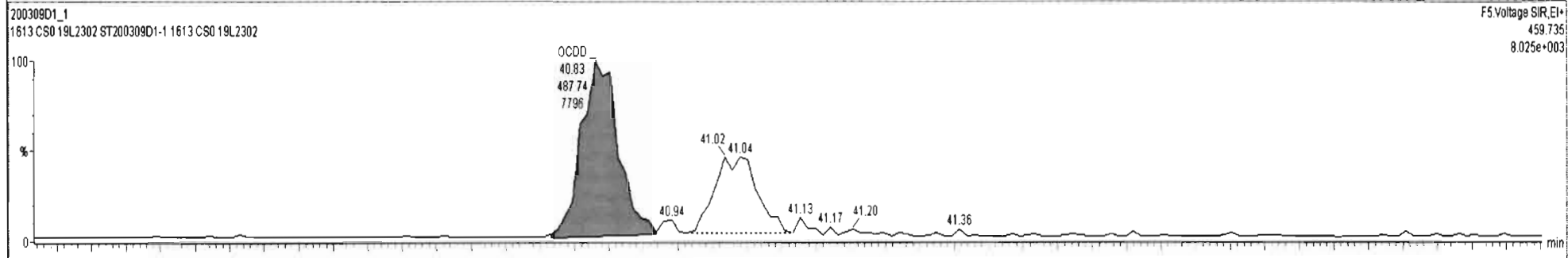
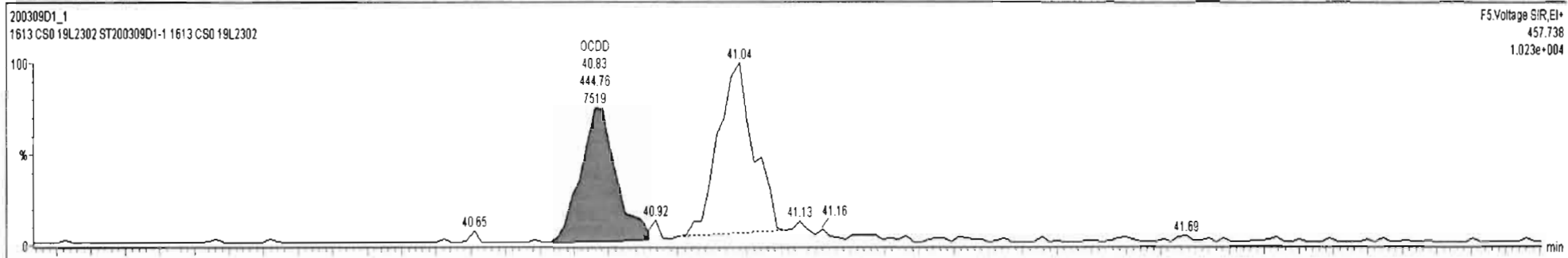


Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_1, Date: 09-Mar-2020, Time: 12:30:36, ID: ST200309D1-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302





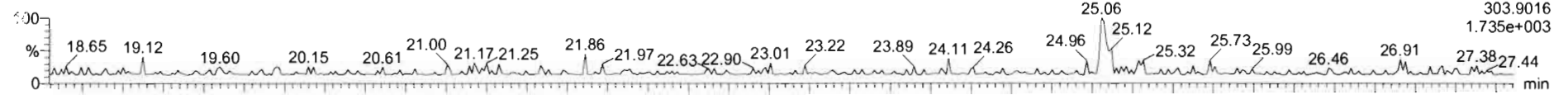
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

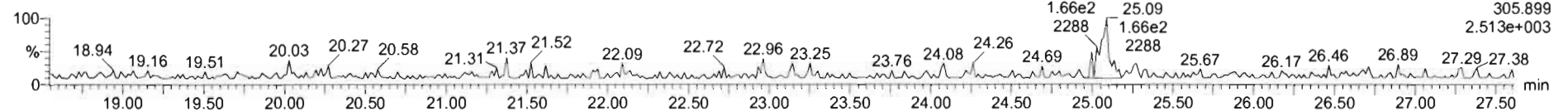
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**2,3,7,8-TCDF**

200309D1\_1

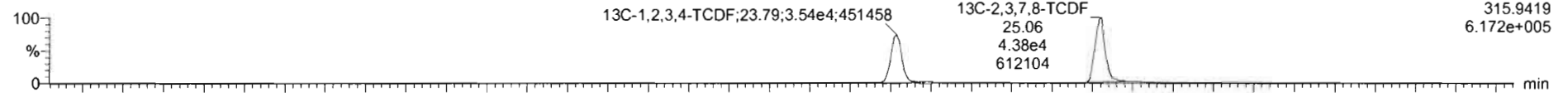


200309D1\_1

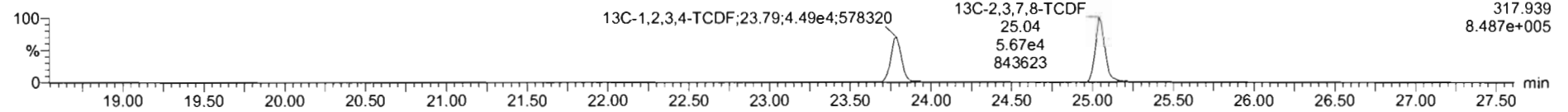


**13C-2,3,7,8-TCDF**

200309D1\_1

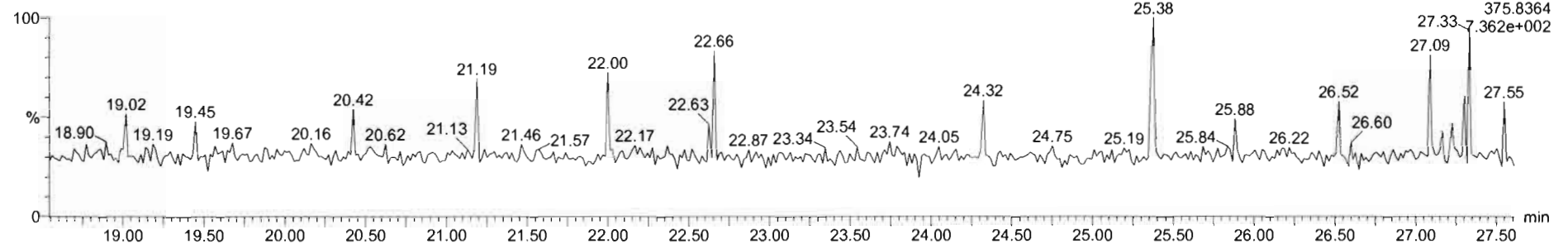


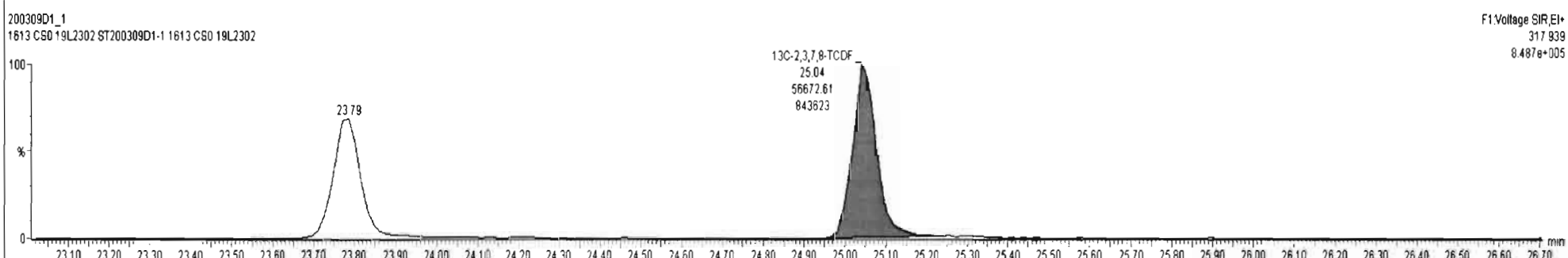
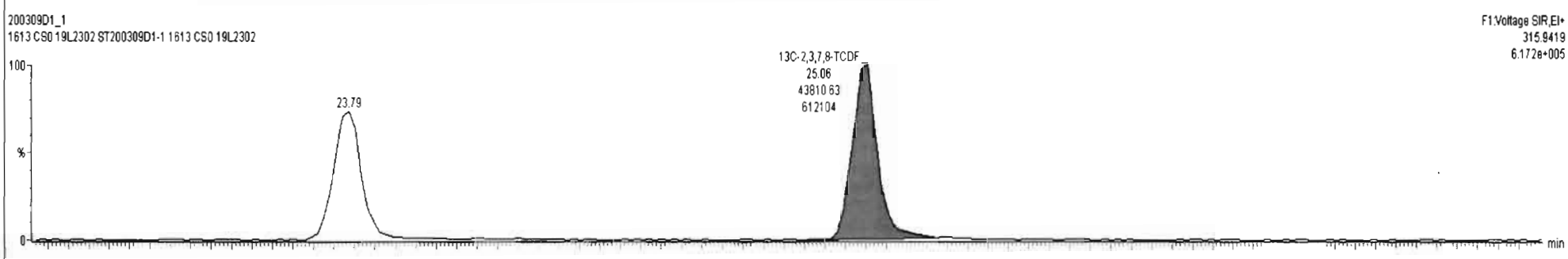
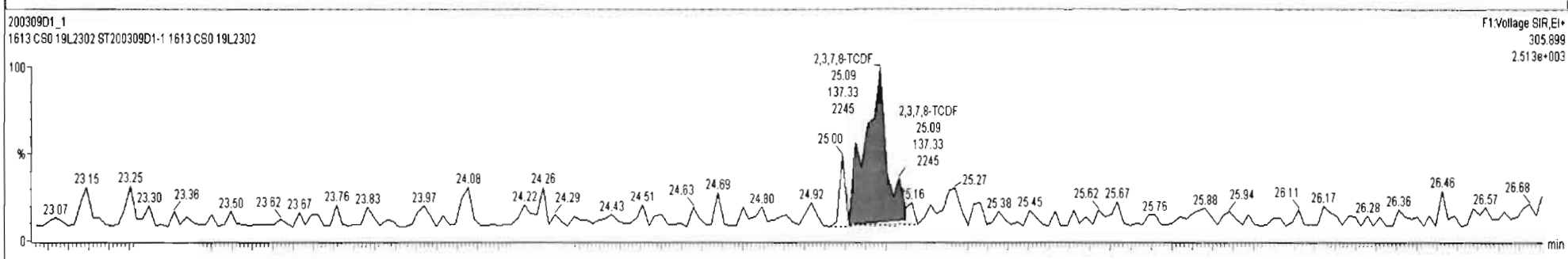
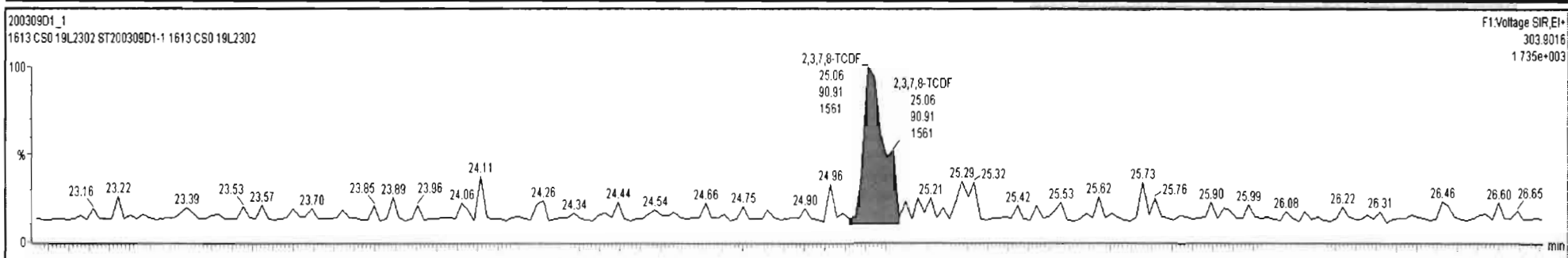
200309D1\_1



**DPE1**

200309D1\_1



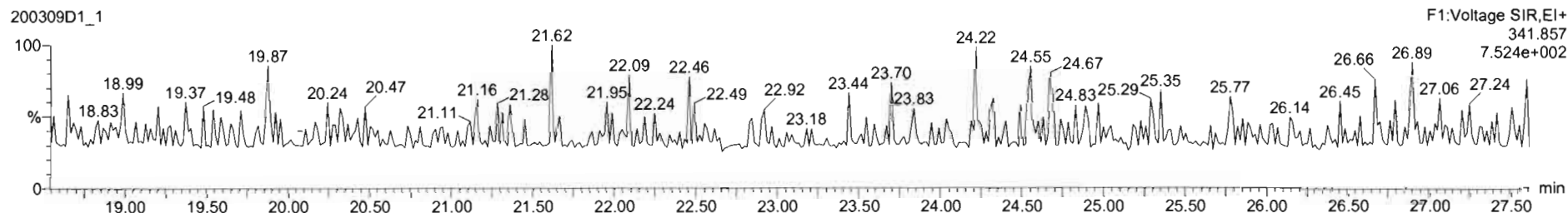
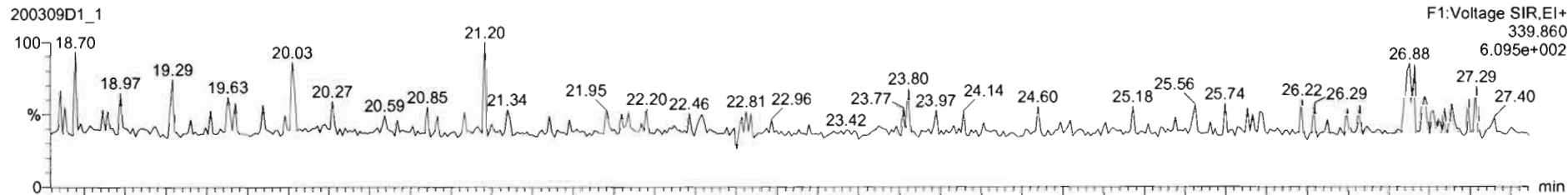


Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

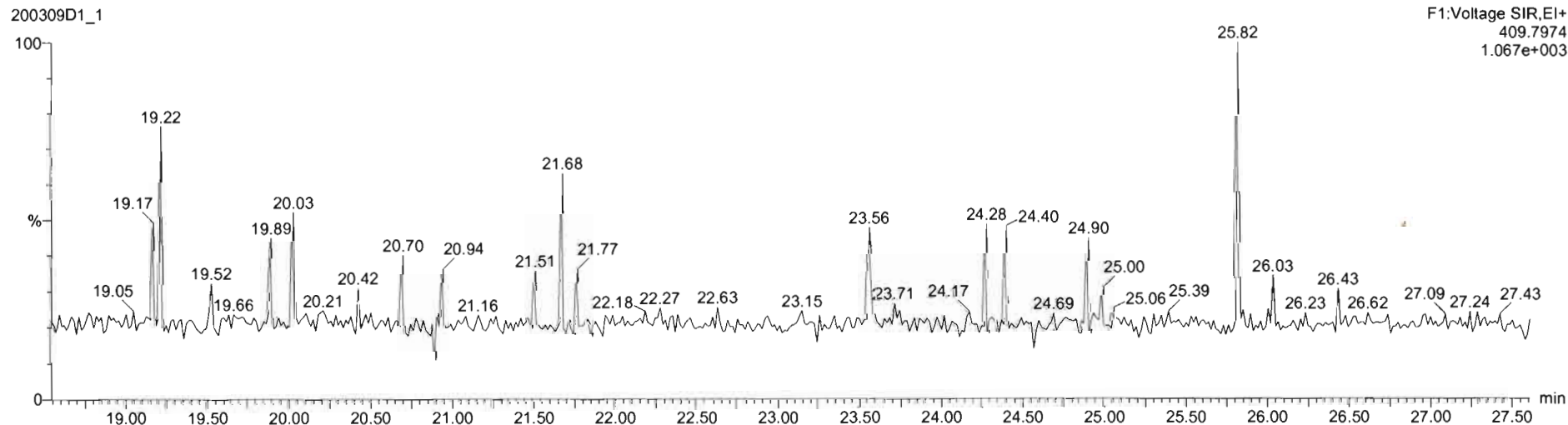
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Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_1, Date: 09-Mar-2020, Time: 12:30:36, ID: ST200309D1-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1st Func. Penta-Furans



DPE6

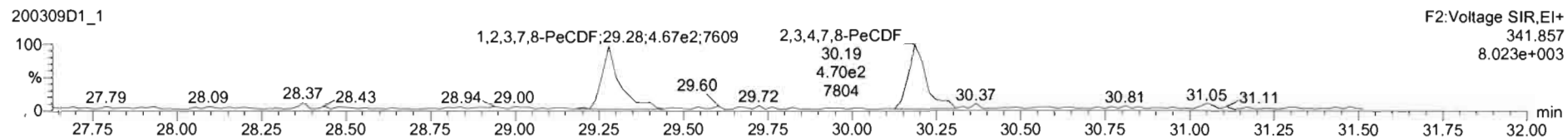
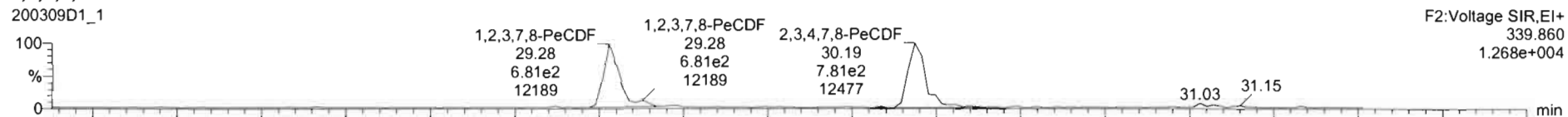


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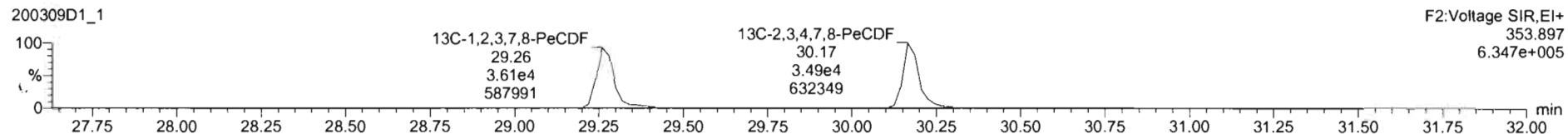
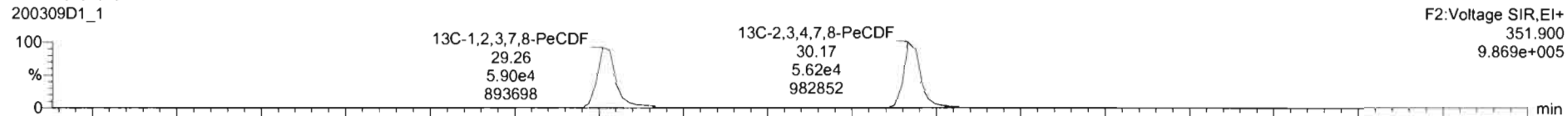
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Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_1, Date: 09-Mar-2020, Time: 12:30:36, ID: ST200309D1-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

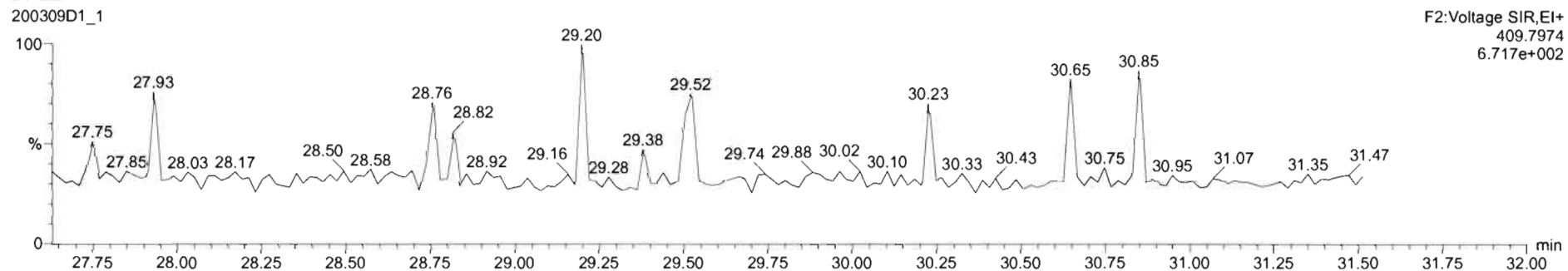
**1,2,3,7,8-PeCDF**



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



**DPE2**

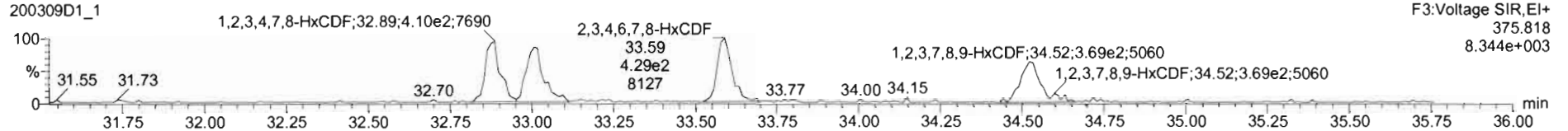
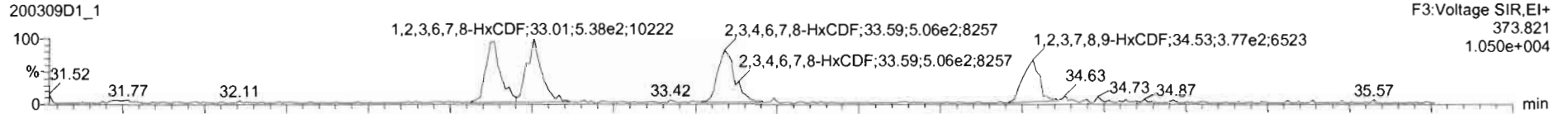


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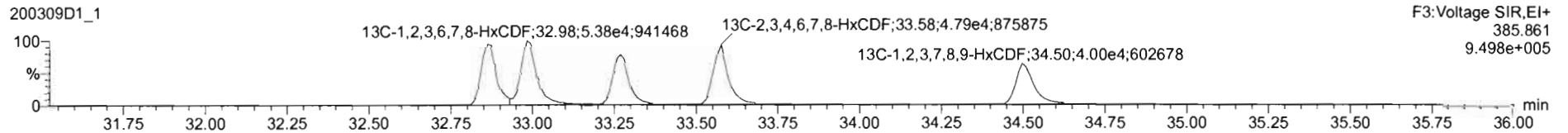
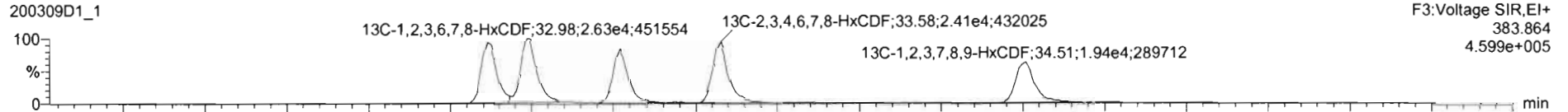
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Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

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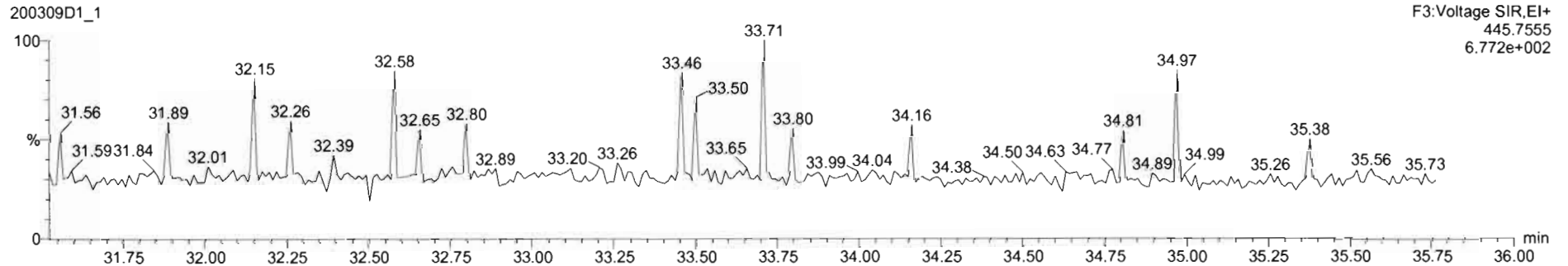
1,2,3,4,7,8-HxCDF



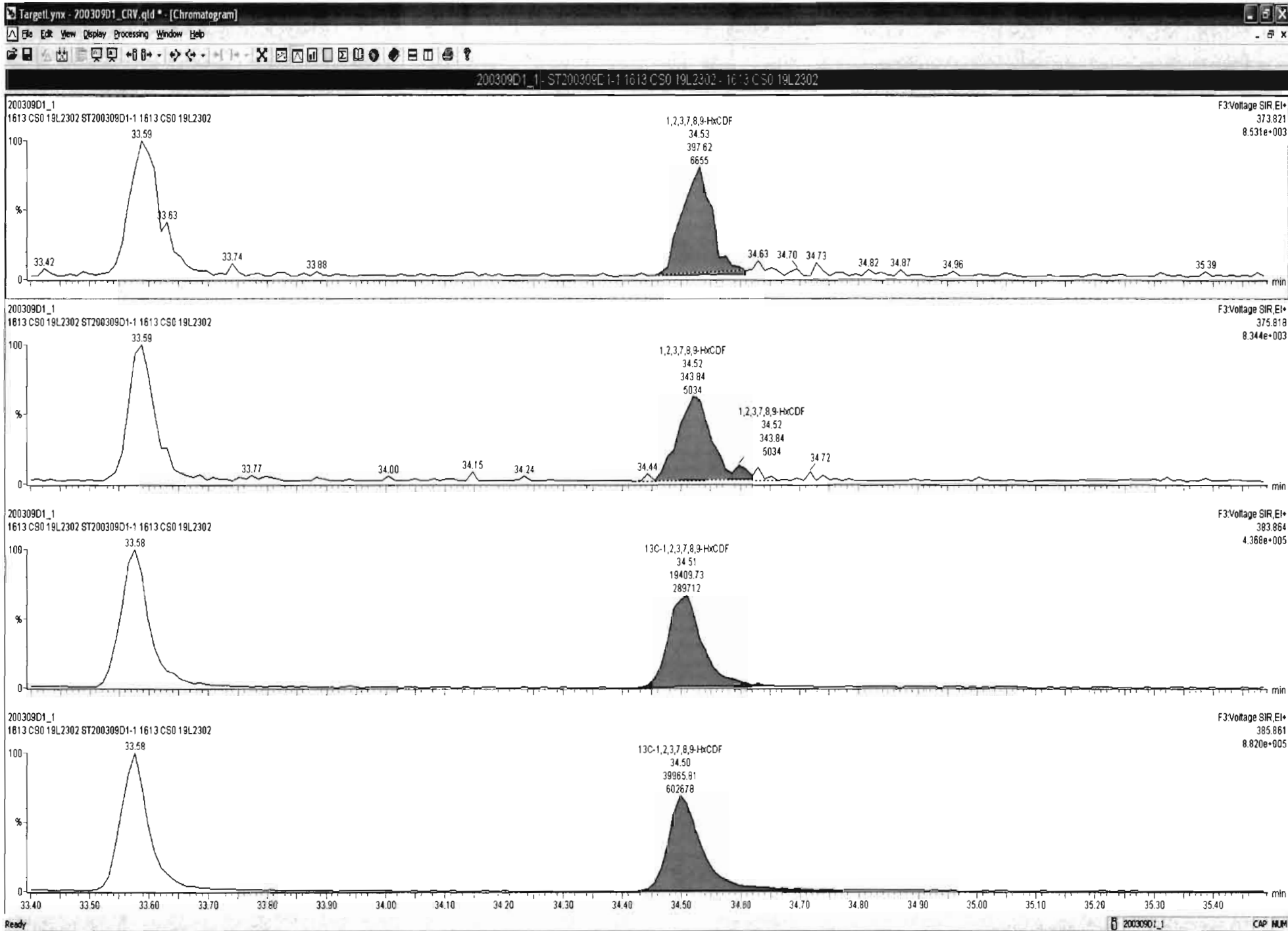
13C-1,2,3,4,7,8-HxCDF



DPE3





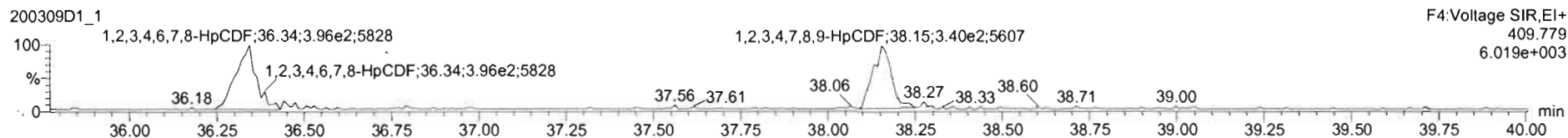
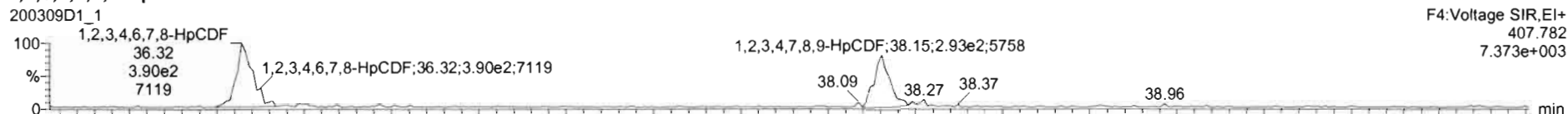


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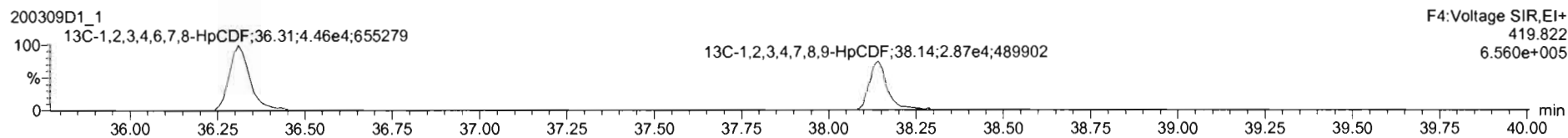
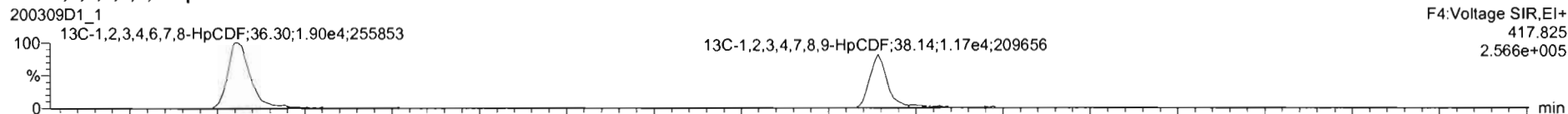
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Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

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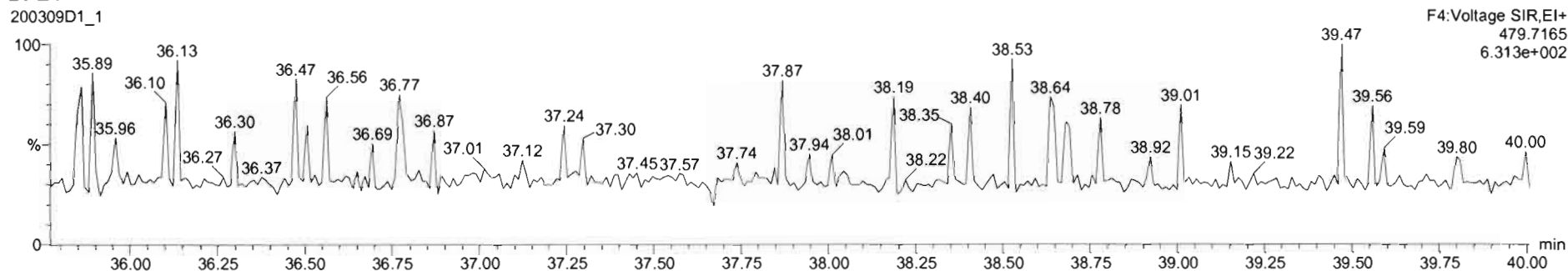
1,2,3,4,6,7,8-HpCDF

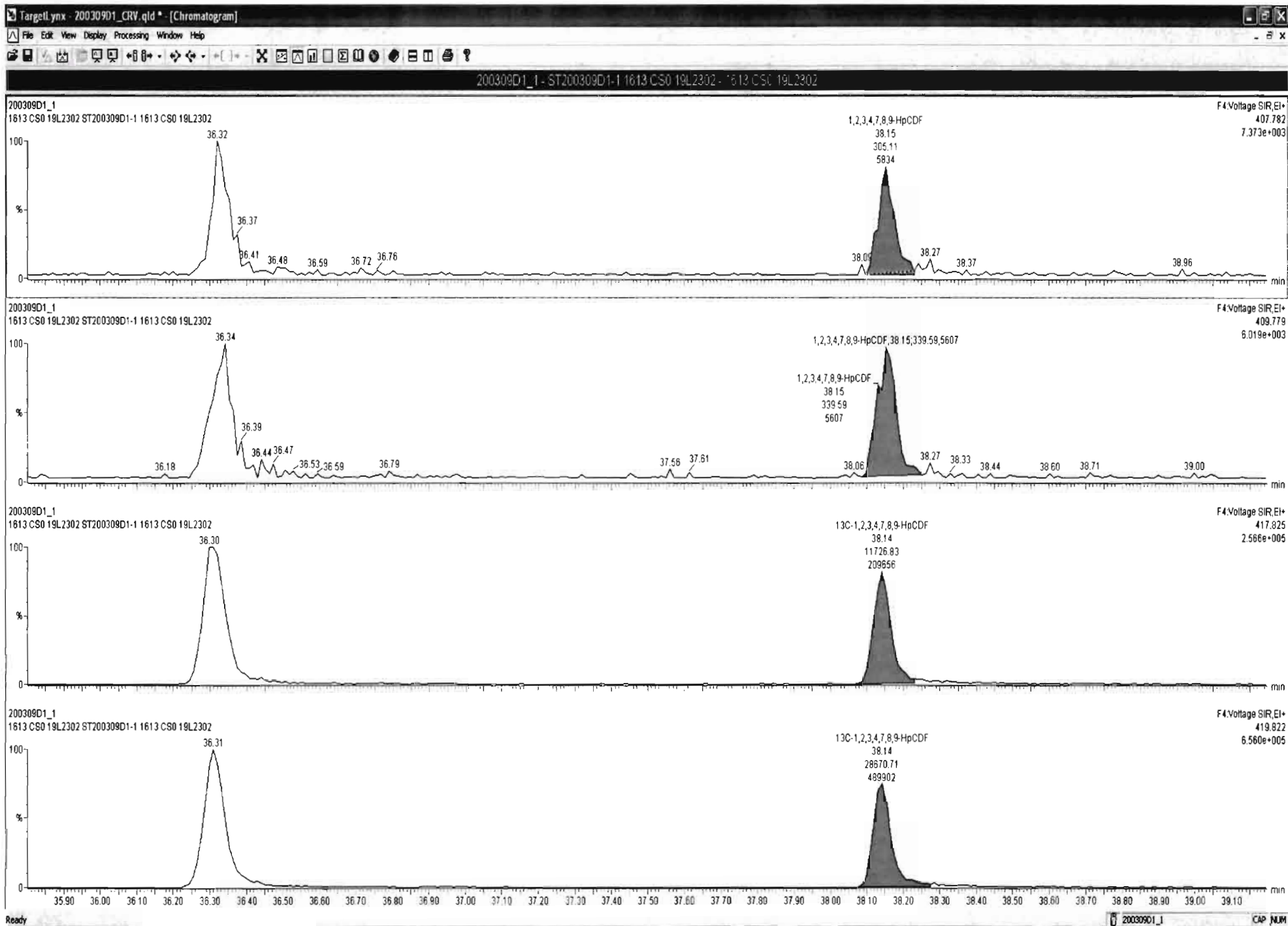


13C-1,2,3,4,6,7,8-HpCDF



DPE4



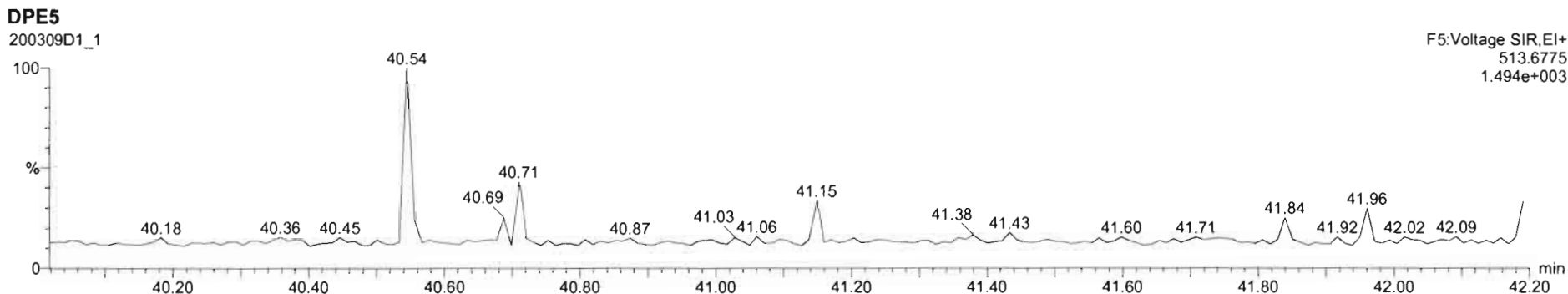
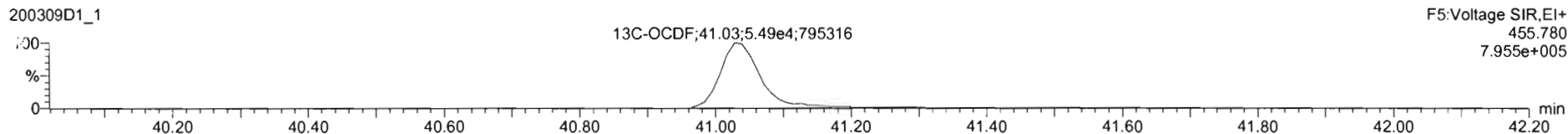
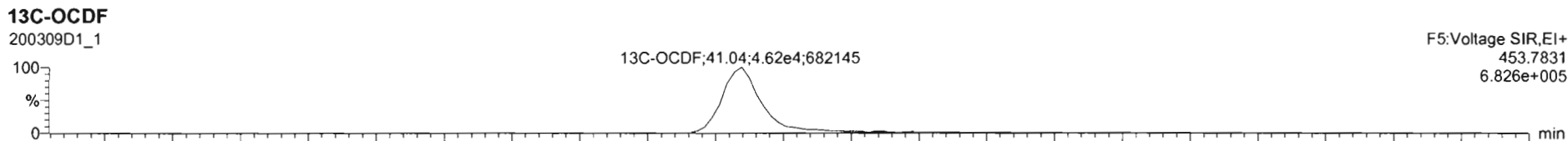
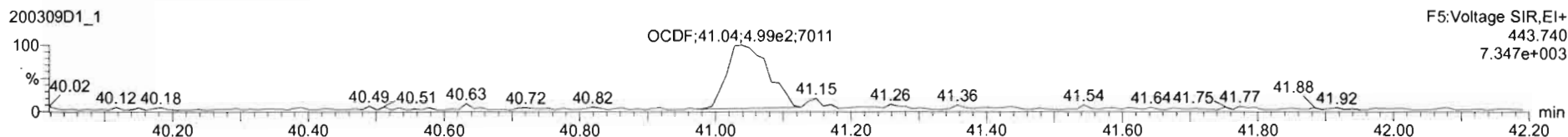
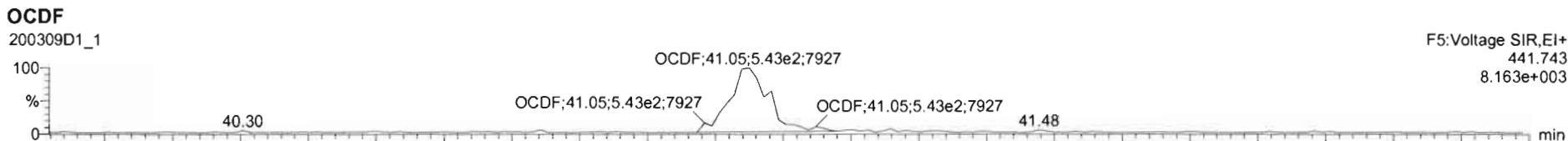


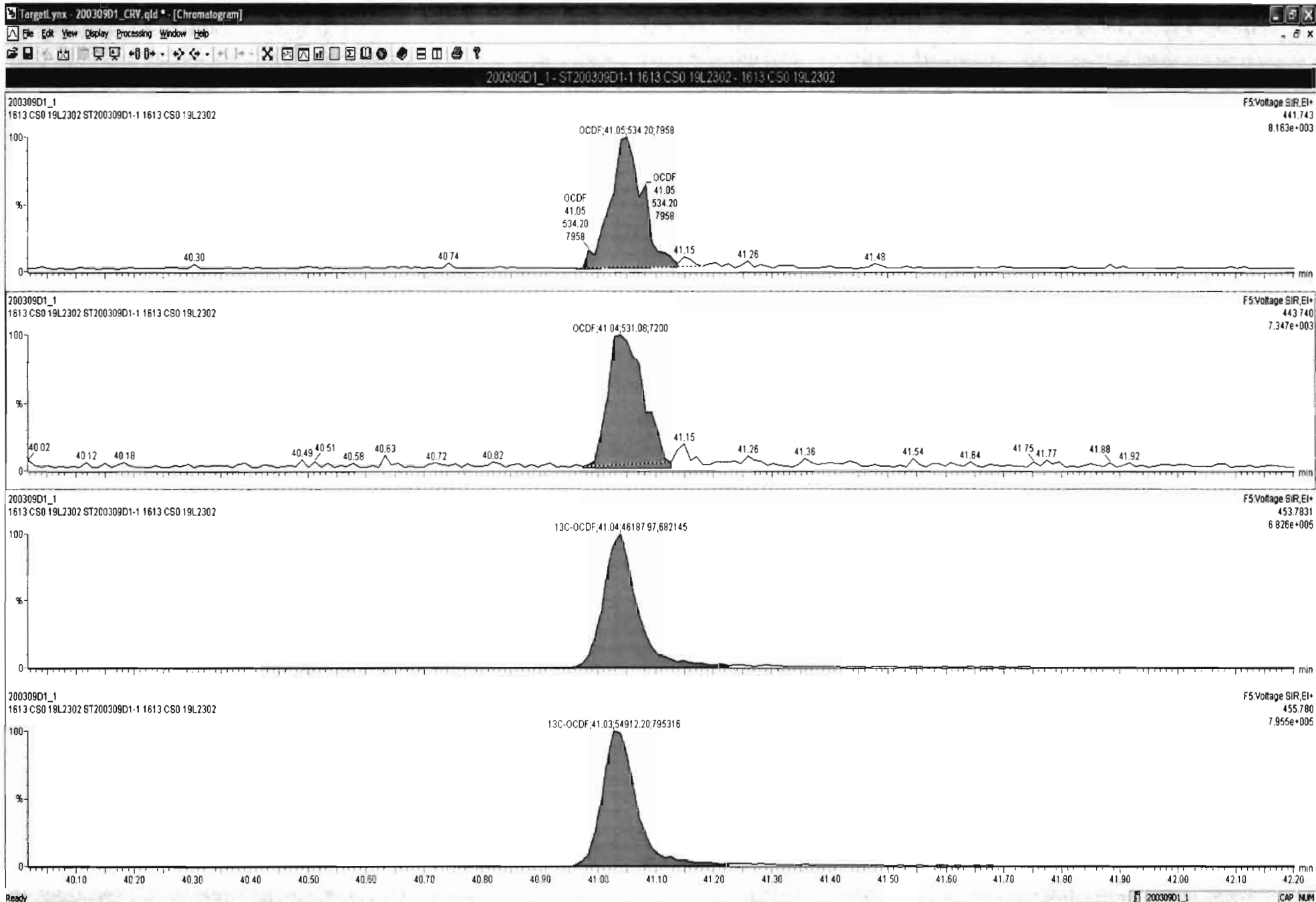
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Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time

Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_1, Date: 09-Mar-2020, Time: 12:30:36, ID: ST200309D1-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

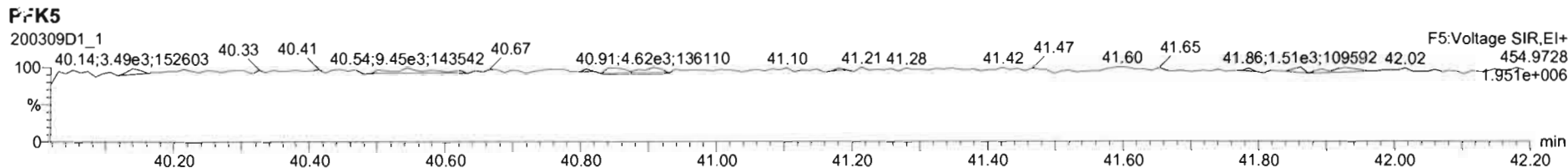
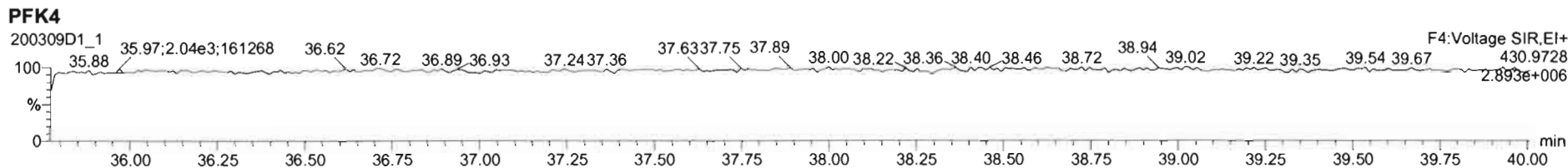
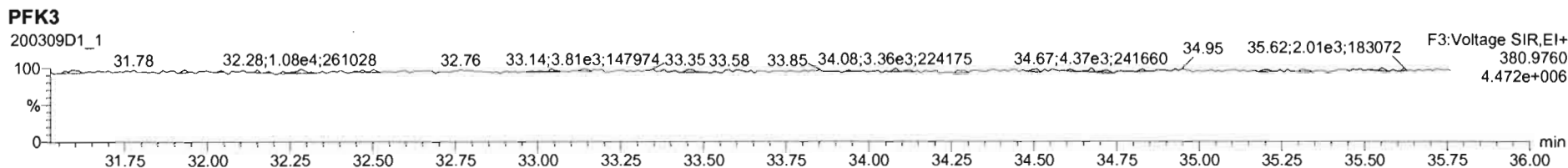
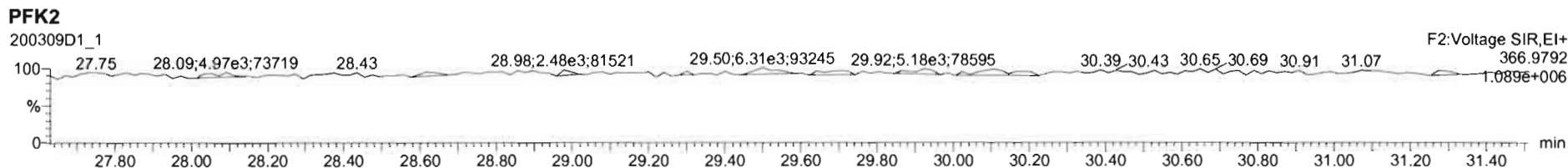
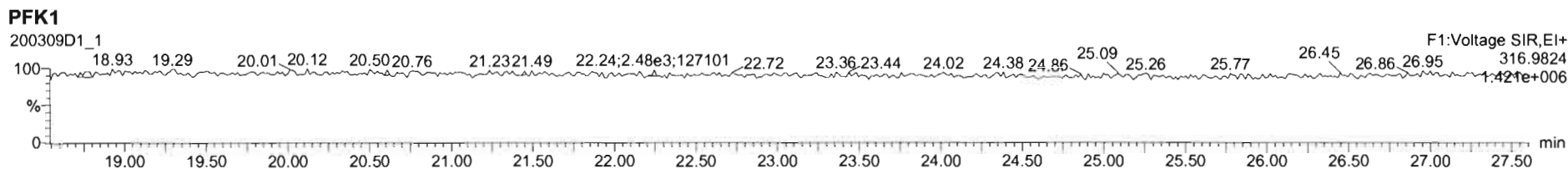




Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_1, Date: 09-Mar-2020, Time: 12:30:36, ID: ST200309D1-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

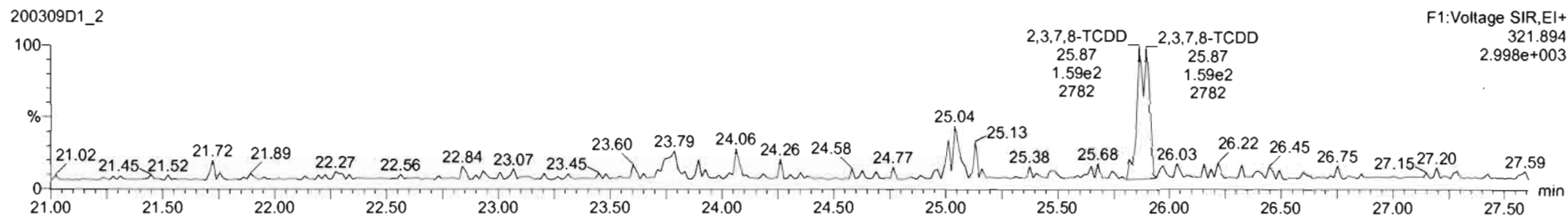
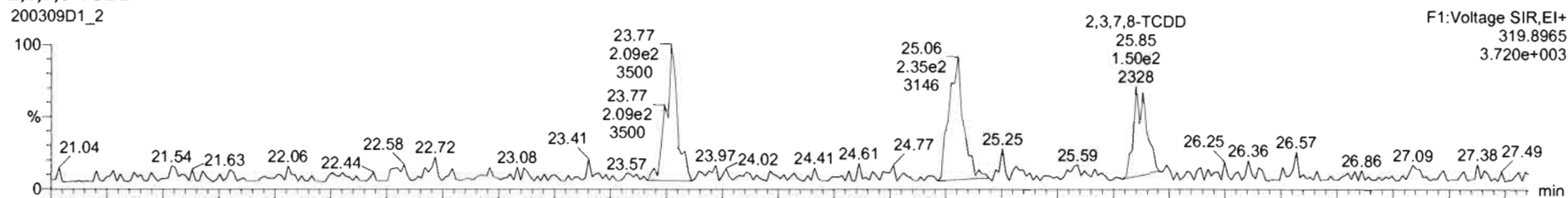


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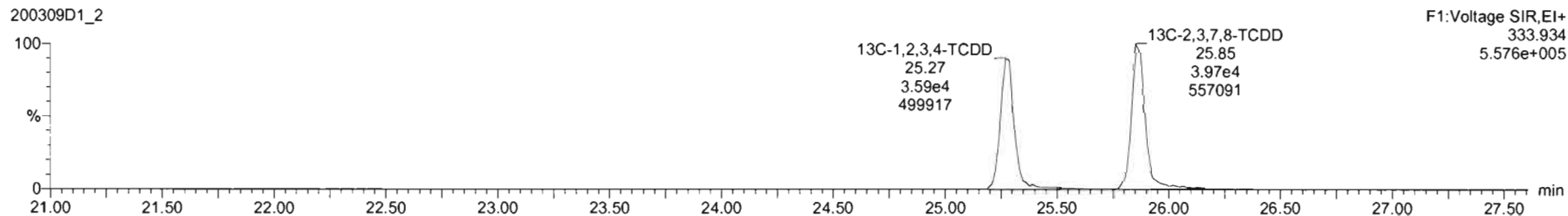
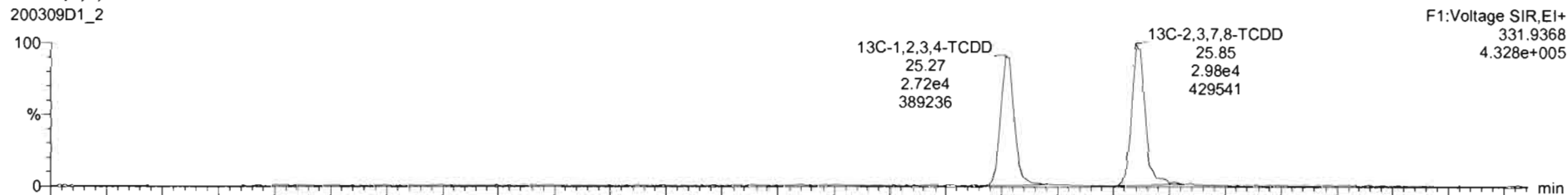
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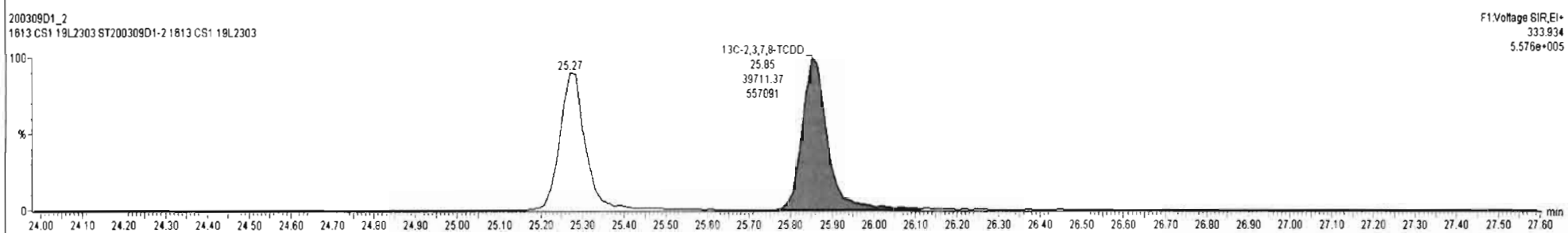
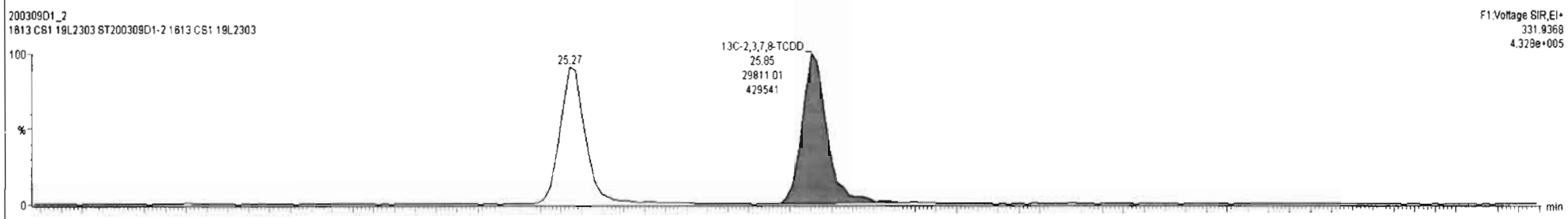
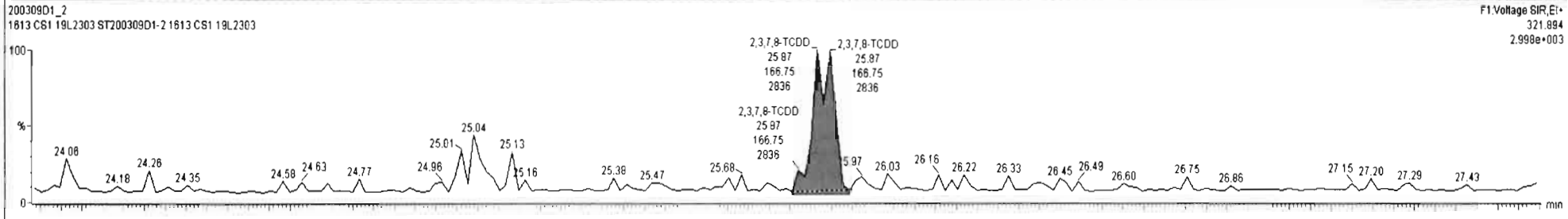
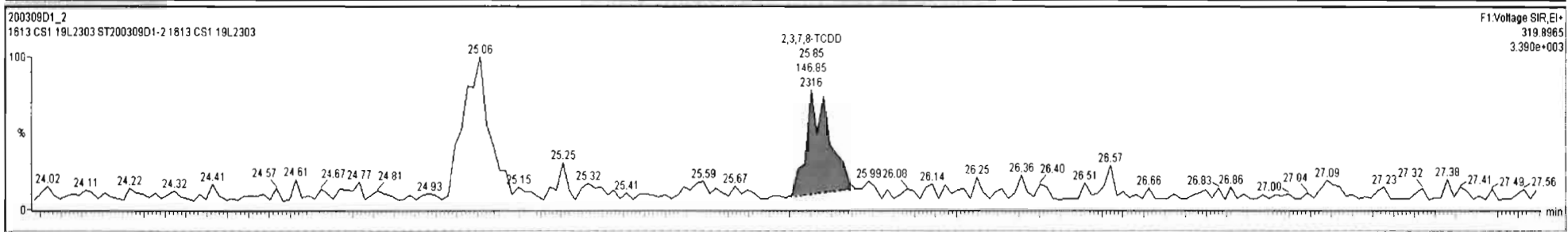
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**2,3,7,8-TCDD**



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







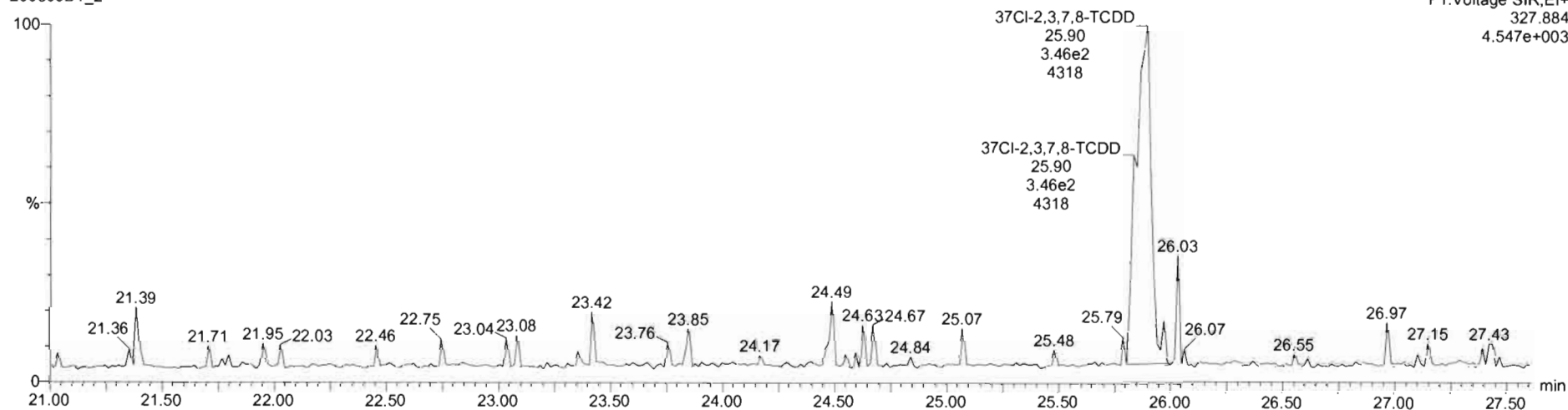
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Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

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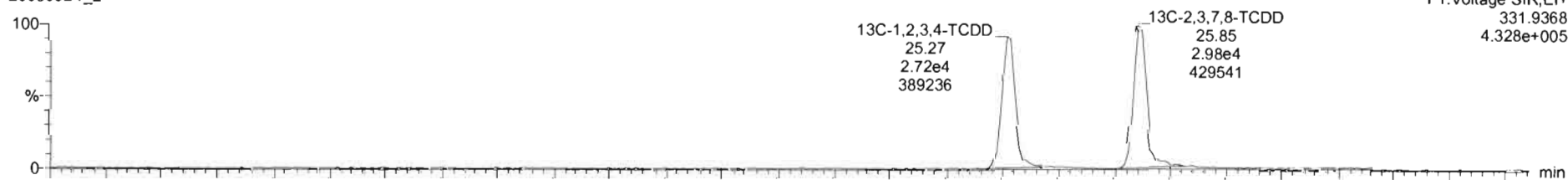
37Cl-2,3,7,8-TCDD

200309D1\_2

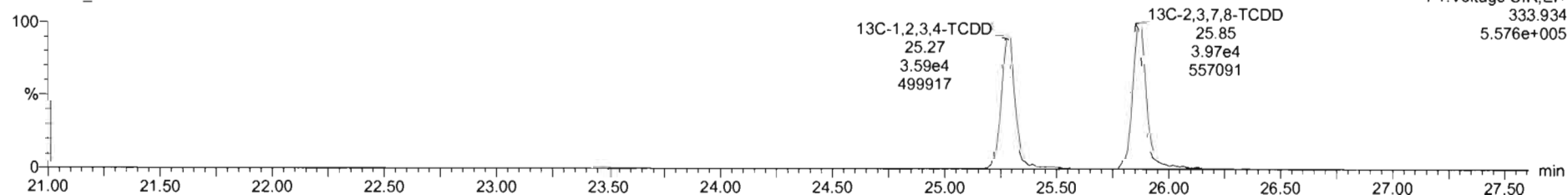


13C-1,2,3,4-TCDD

200309D1\_2



200309D1\_2



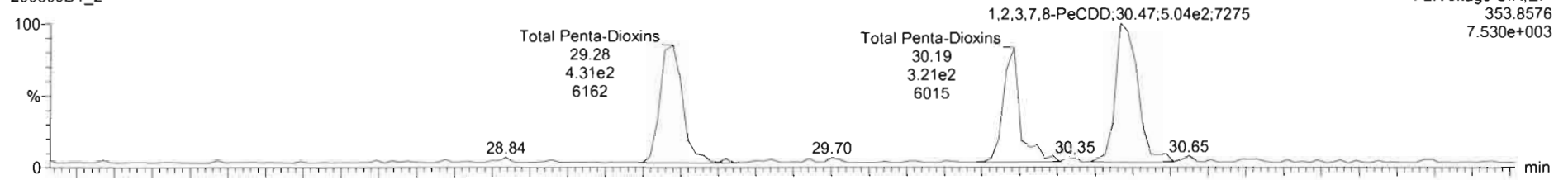
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Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
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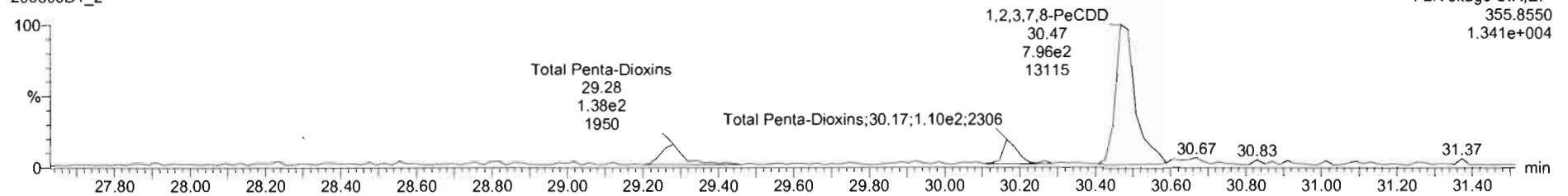
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1,2,3,7,8-PeCDD

200309D1\_2

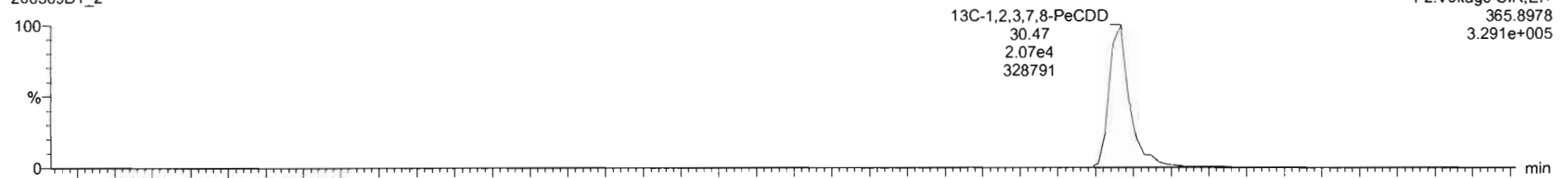


200309D1\_2

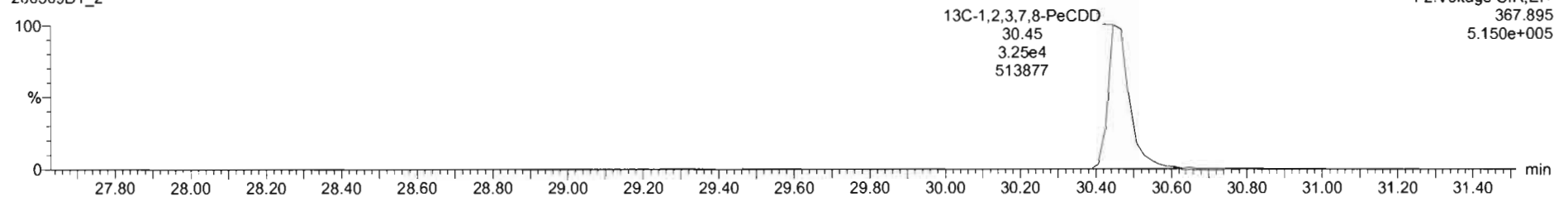


13C-1,2,3,7,8-PeCDD

200309D1\_2



200309D1\_2



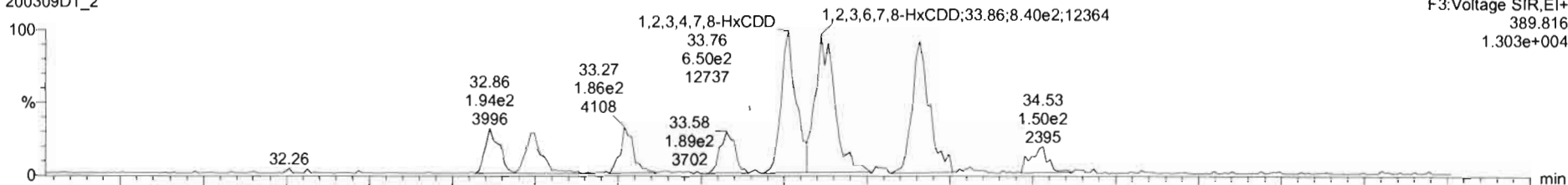
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Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

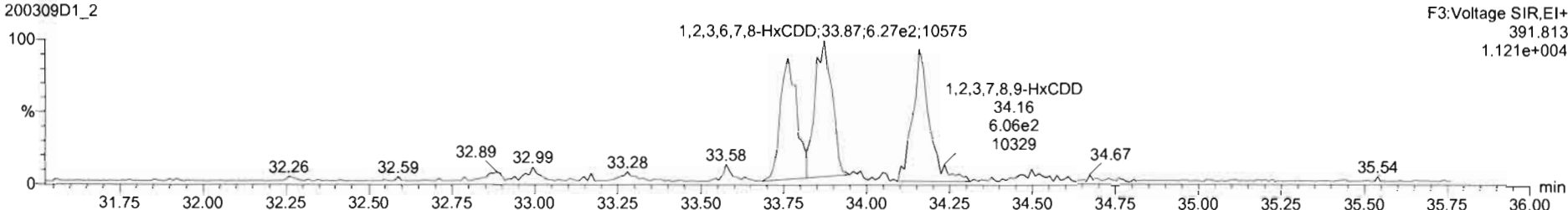
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**1,2,3,4,7,8-HxCDD**

200309D1\_2

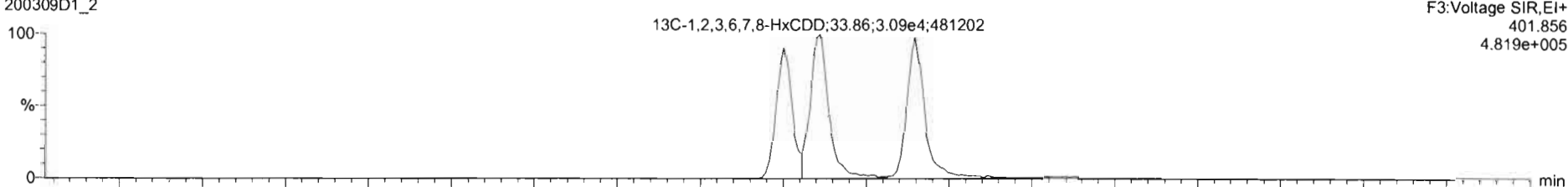


200309D1\_2

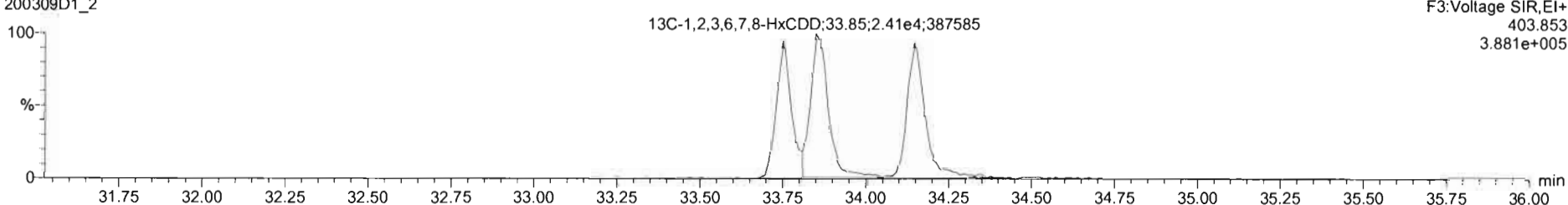


**13C-1,2,3,4,7,8-HxCDD**

200309D1\_2



200309D1\_2



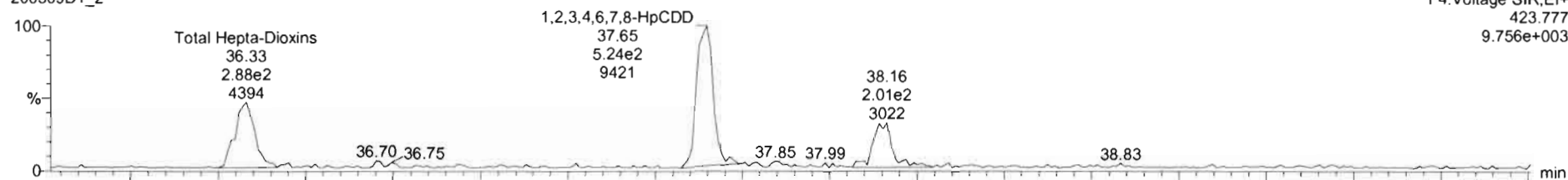
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Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

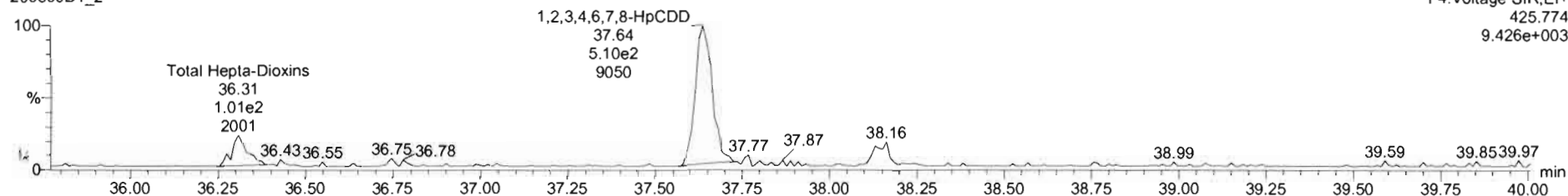
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1,2,3,4,6,7,8-HpCDD

200309D1\_2

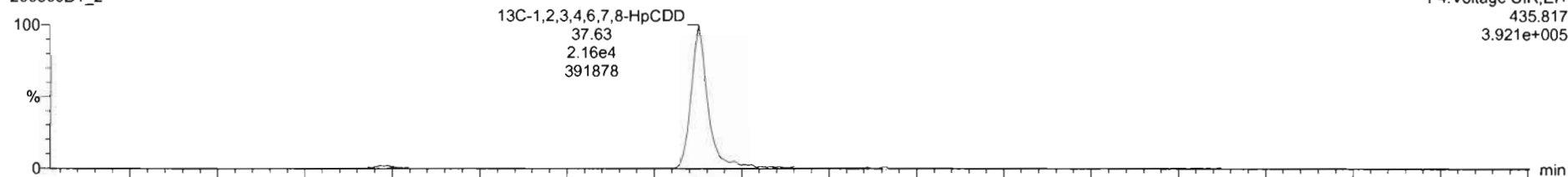


200309D1\_2

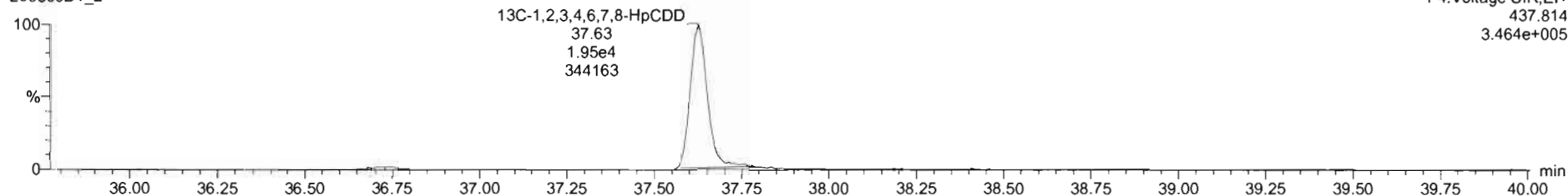


13C-1,2,3,4,6,7,8-HpCDD

200309D1\_2



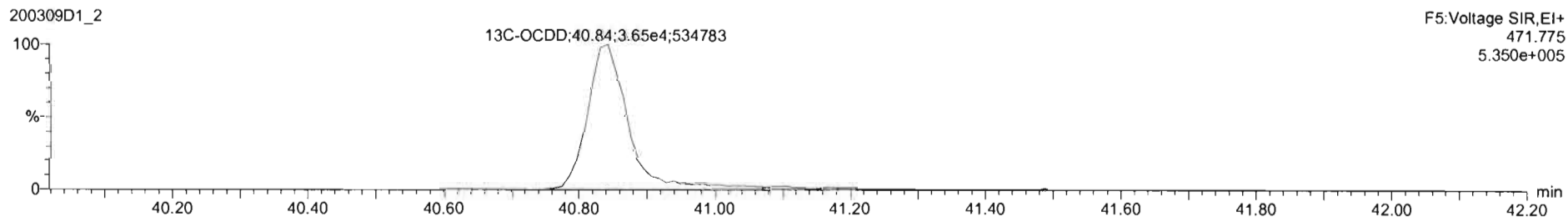
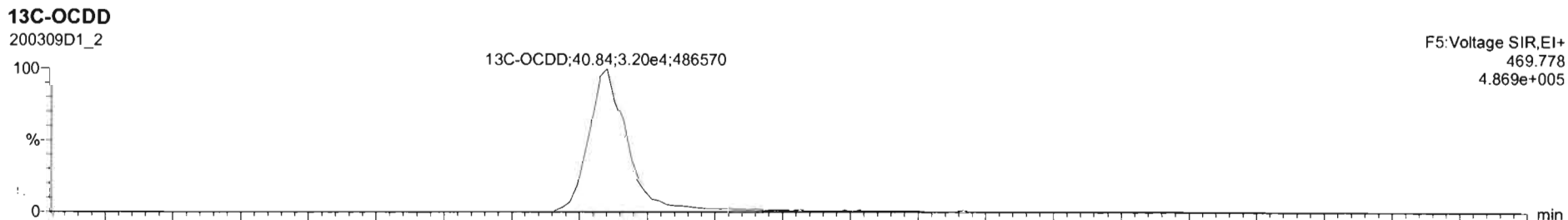
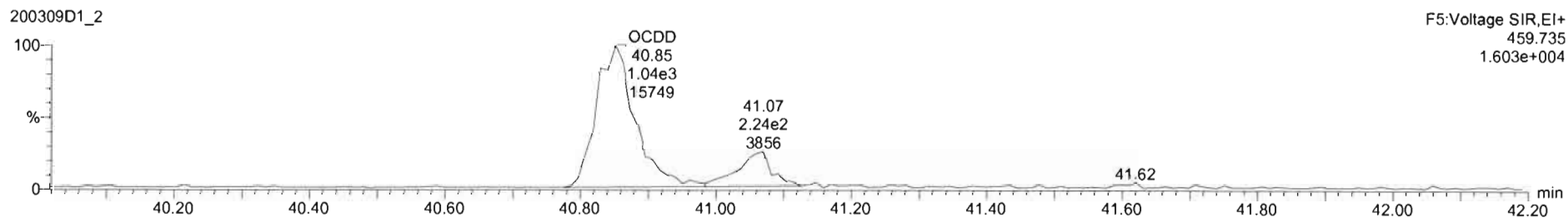
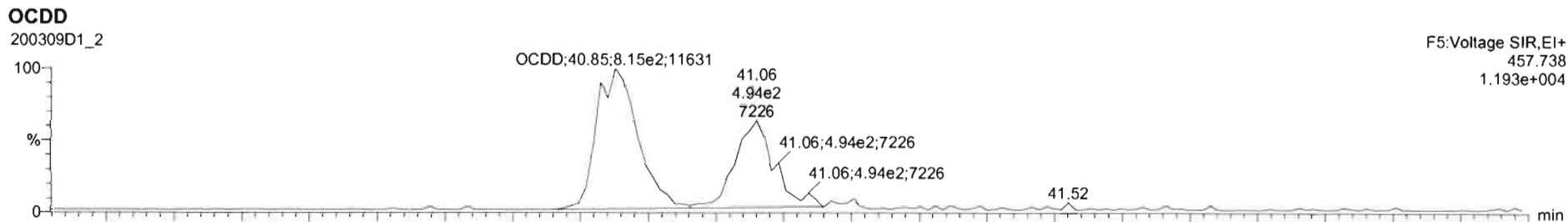
200309D1\_2



Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

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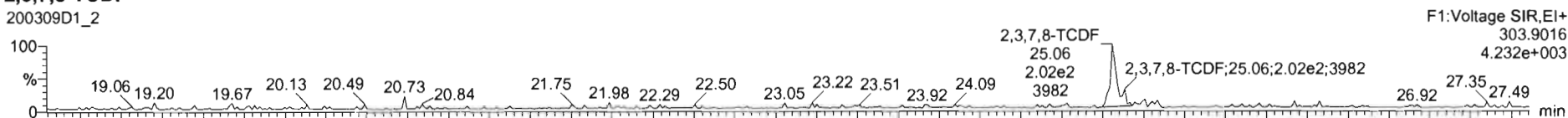
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Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

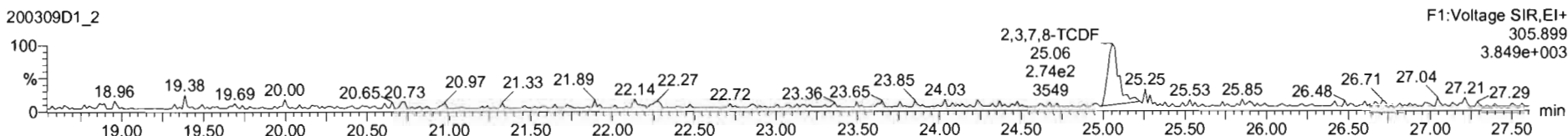
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**2,3,7,8-TCDF**

200309D1\_2

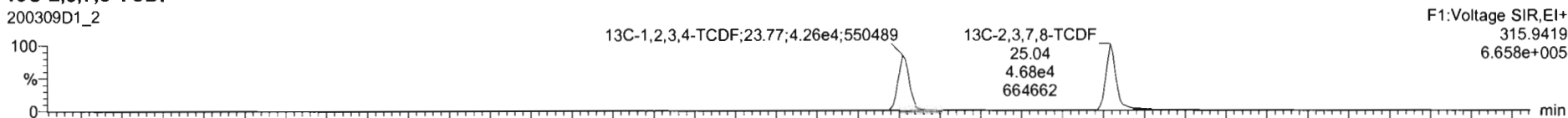


200309D1\_2

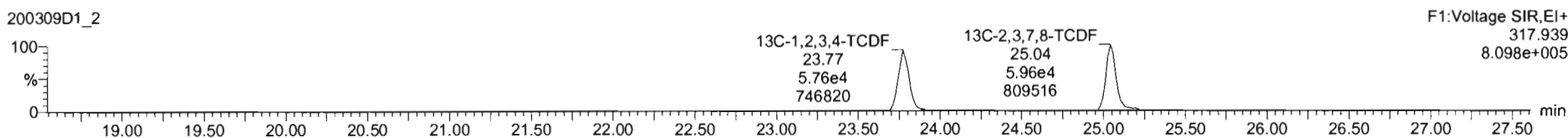


**13C-2,3,7,8-TCDF**

200309D1\_2

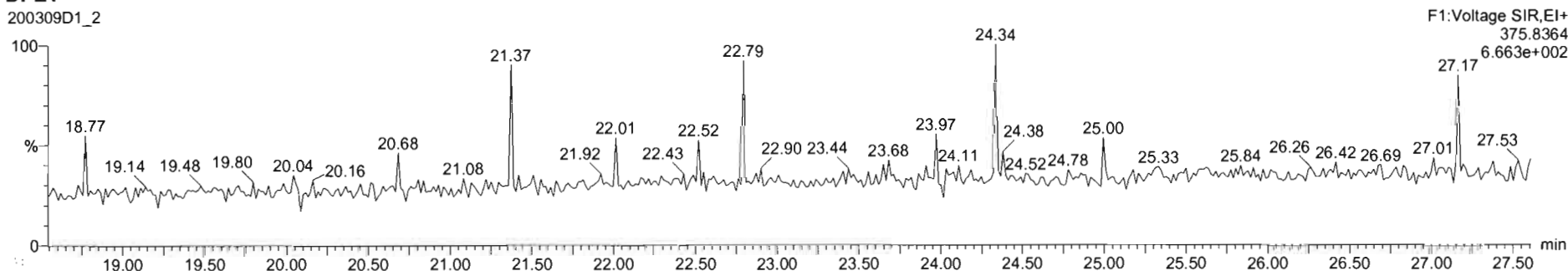


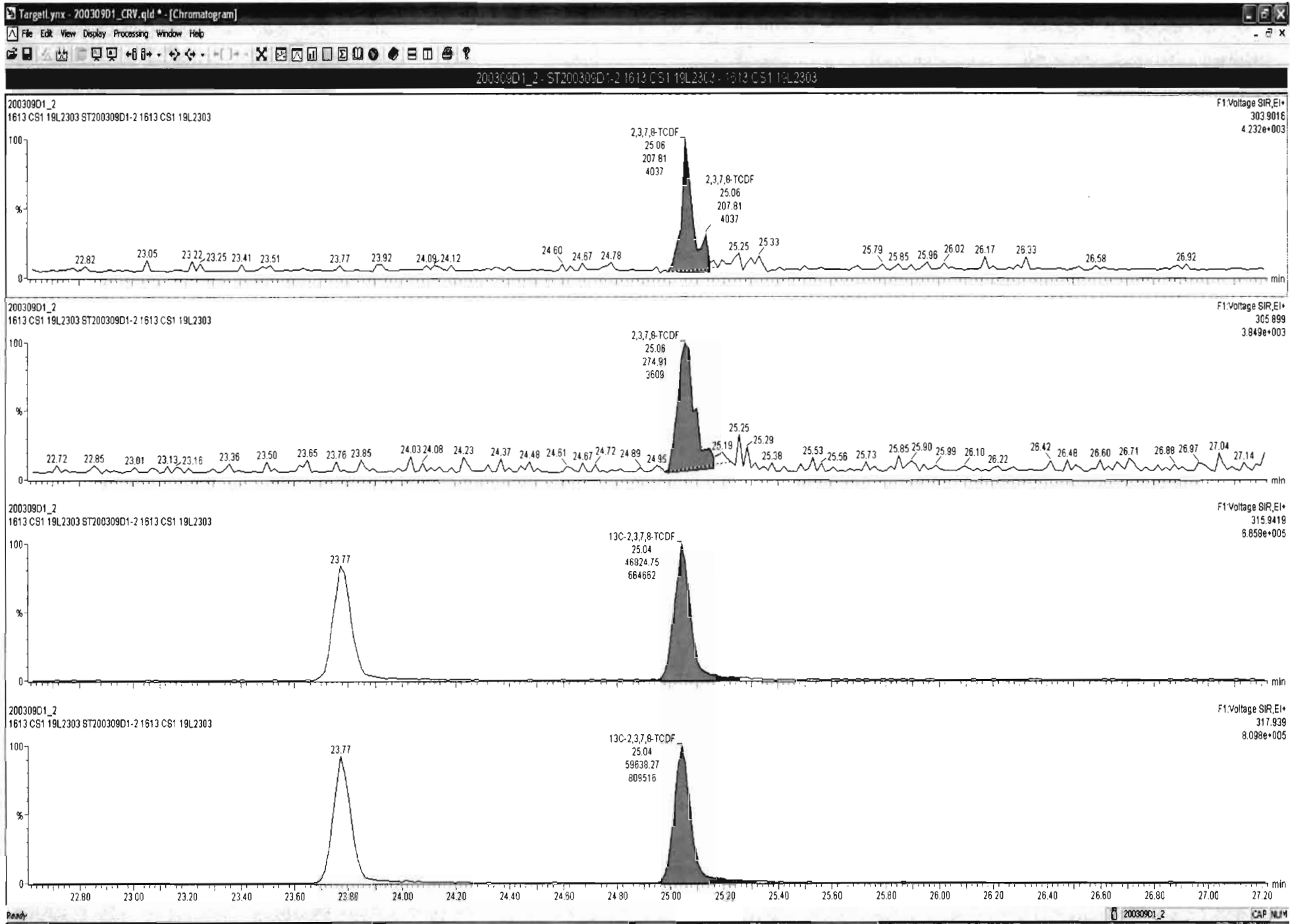
200309D1\_2



**DPE1**

200309D1\_2





Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

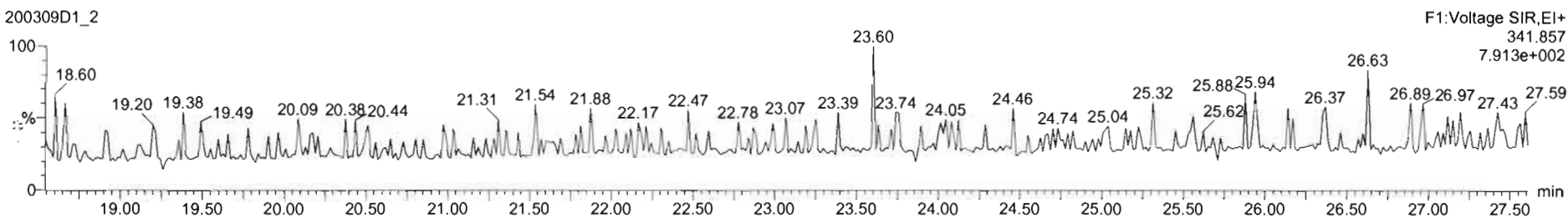
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1st Func. Penta-Furans

200309D1\_2

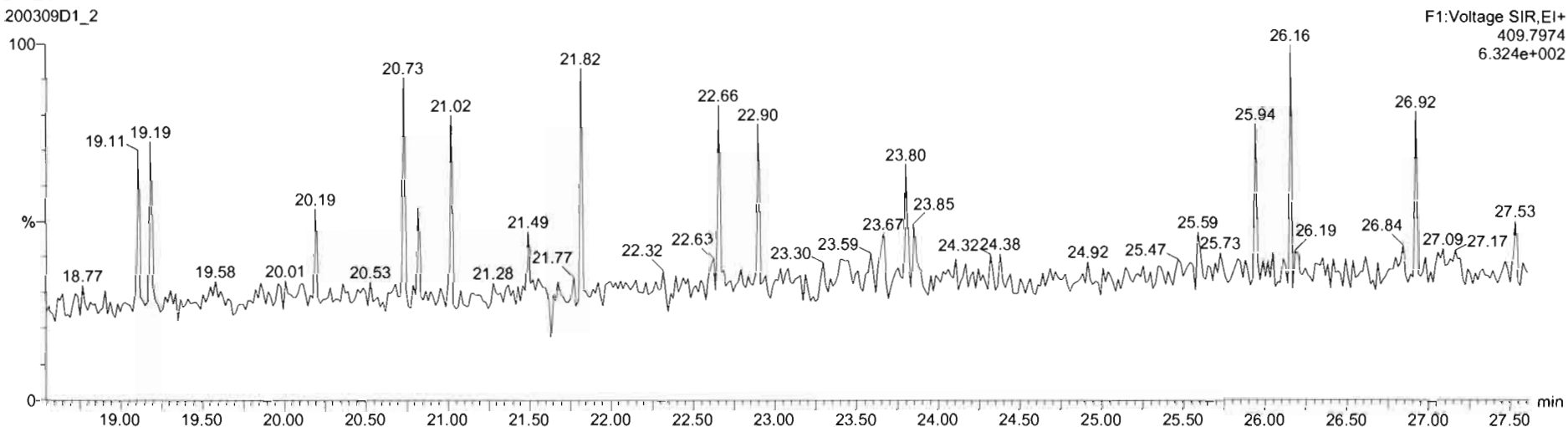


200309D1\_2



DPE6

200309D1\_2





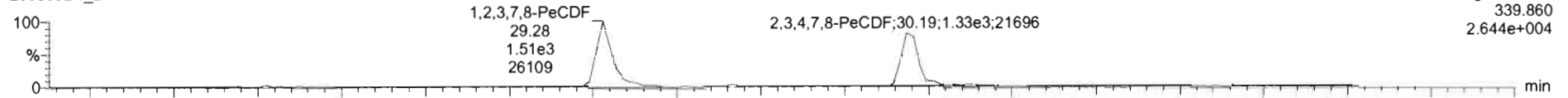
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Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

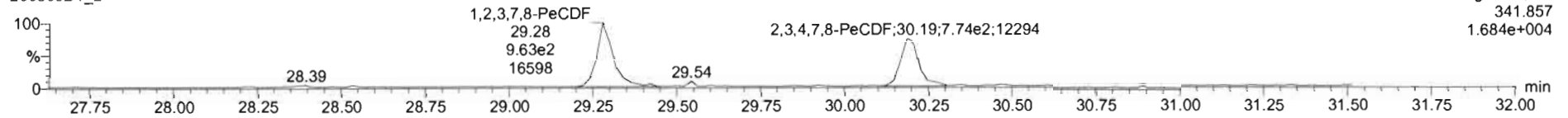
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**1,2,3,7,8-PeCDF**

200309D1\_2

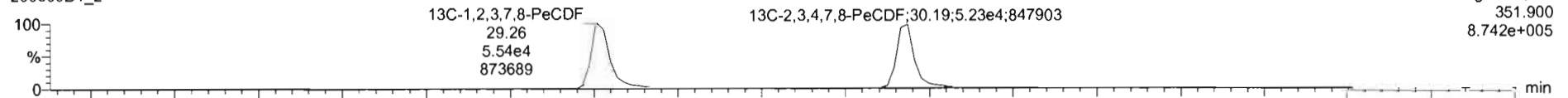


200309D1\_2

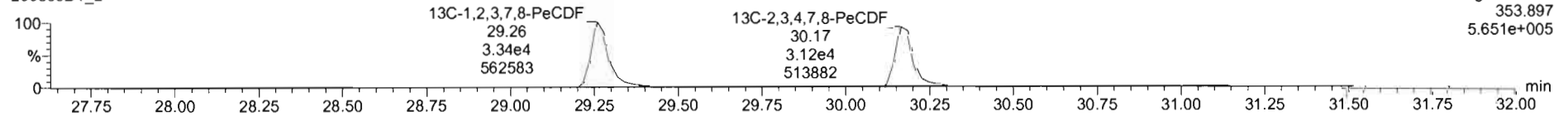


**13C-1,2,3,7,8-PeCDF**

200309D1\_2

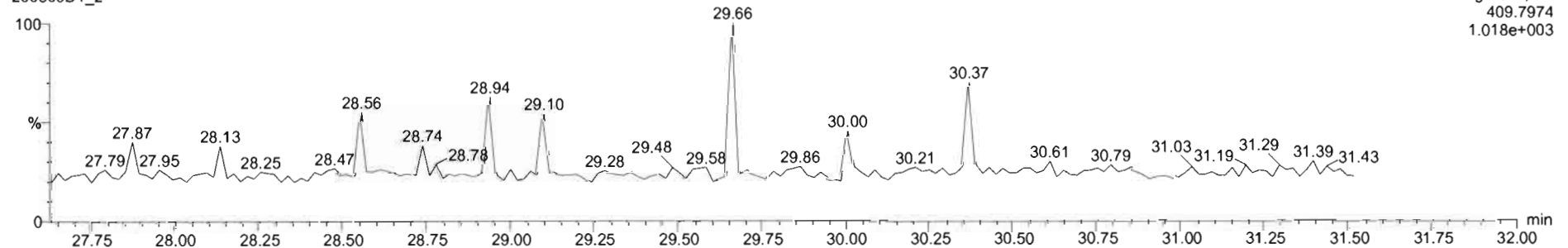


200309D1\_2



**DPE2**

200309D1\_2

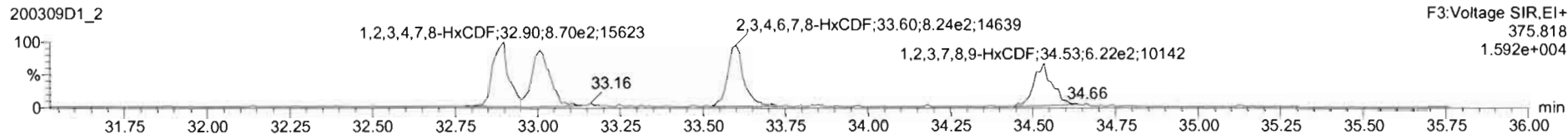
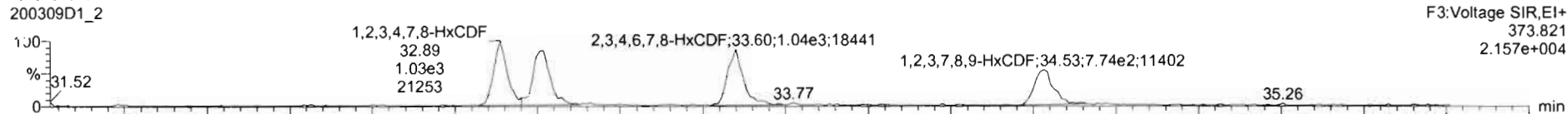


Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

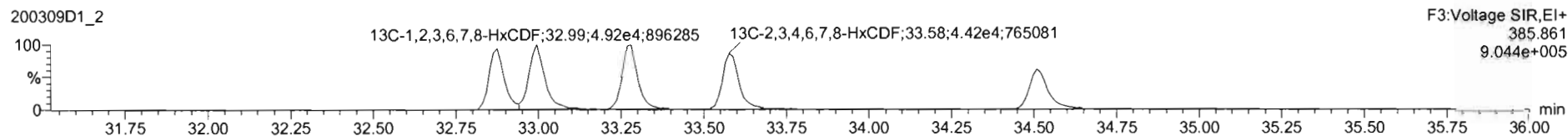
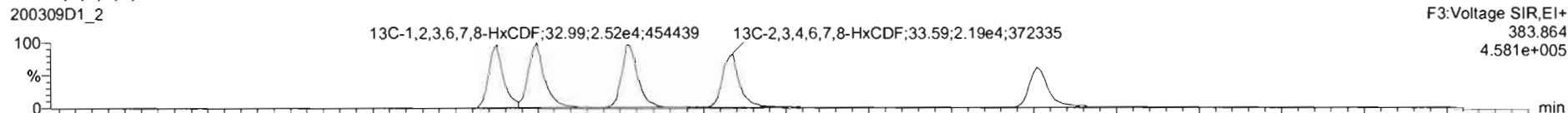
Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_2, Date: 09-Mar-2020, Time: 13:13:59, ID: ST200309D1-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

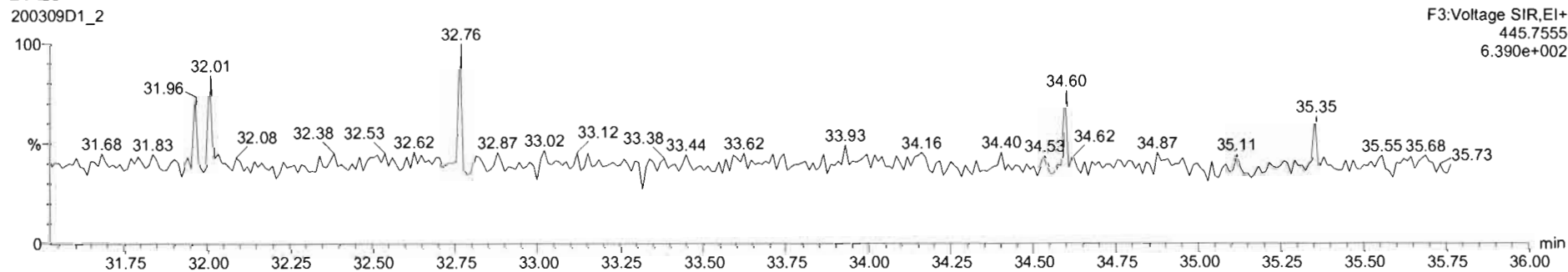
**1,2,3,4,7,8-HxCDF**



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



**DPE3**

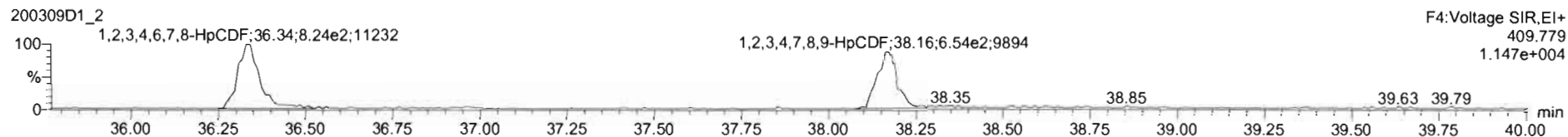
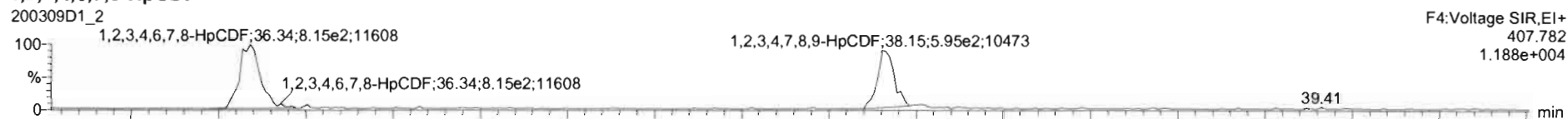


Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

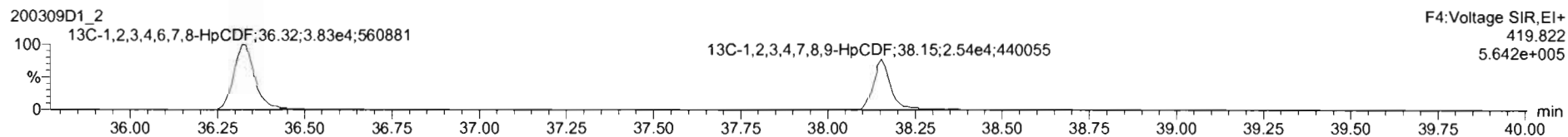
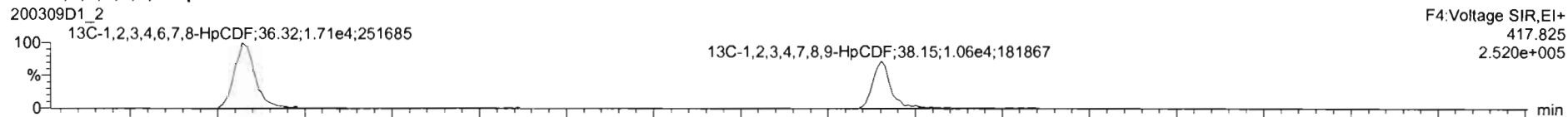
Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_2, Date: 09-Mar-2020, Time: 13:13:59, ID: ST200309D1-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

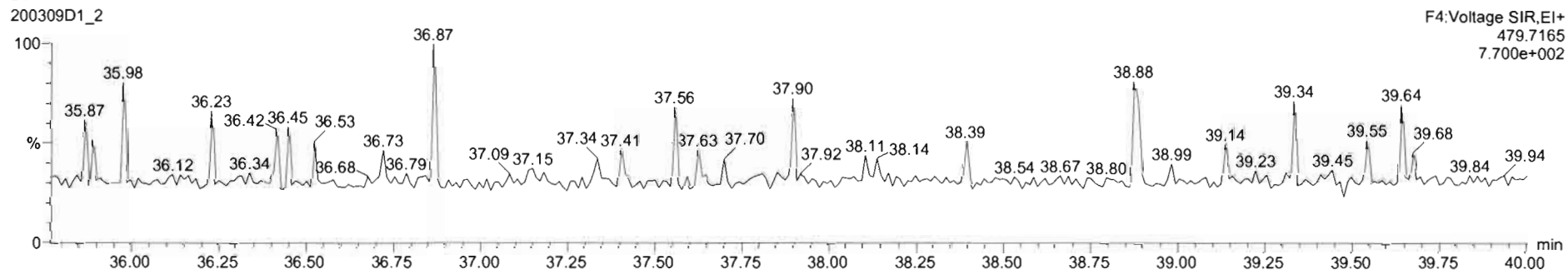
1,2,3,4,6,7,8-HpCDF



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



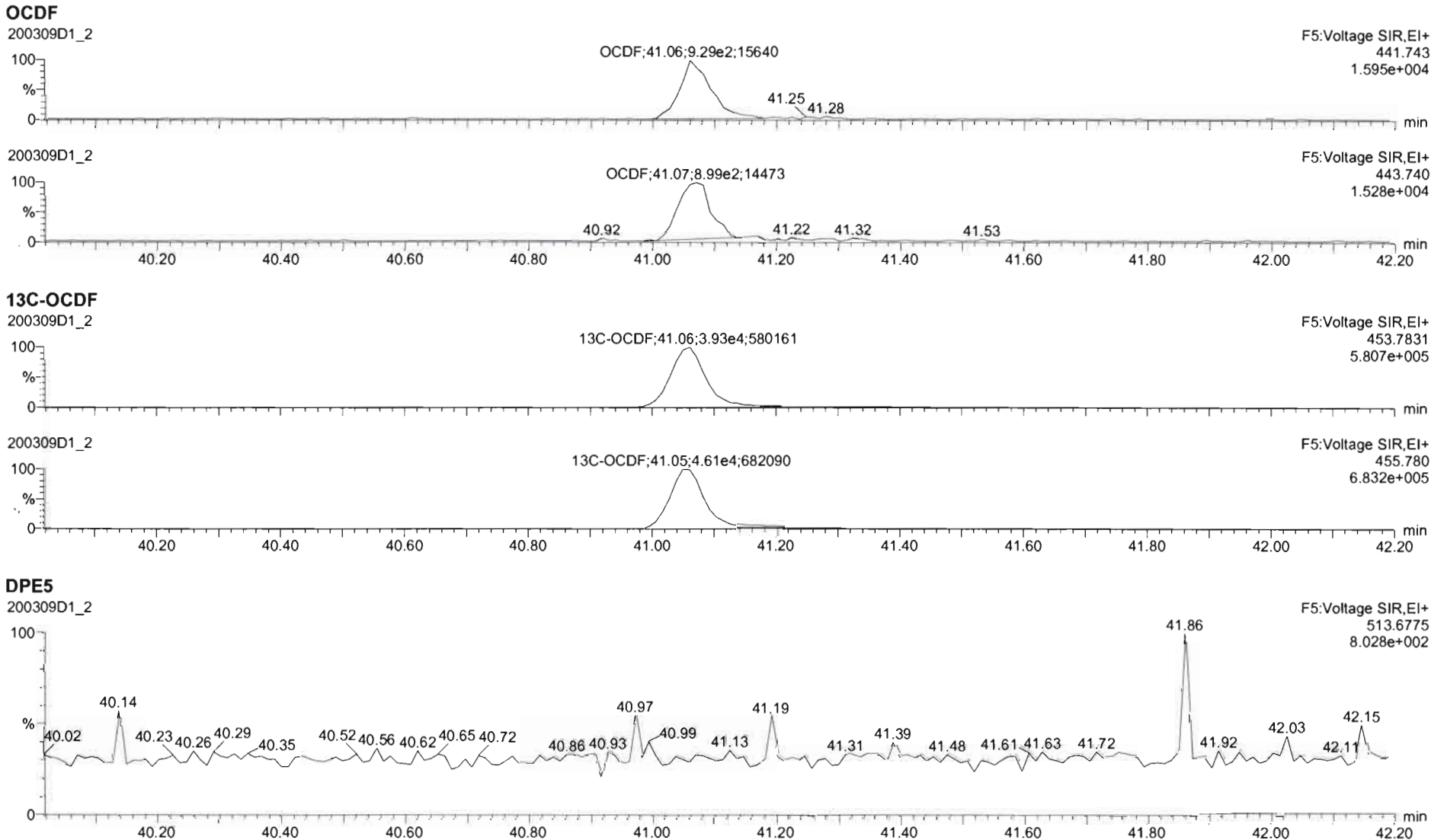
DPE4

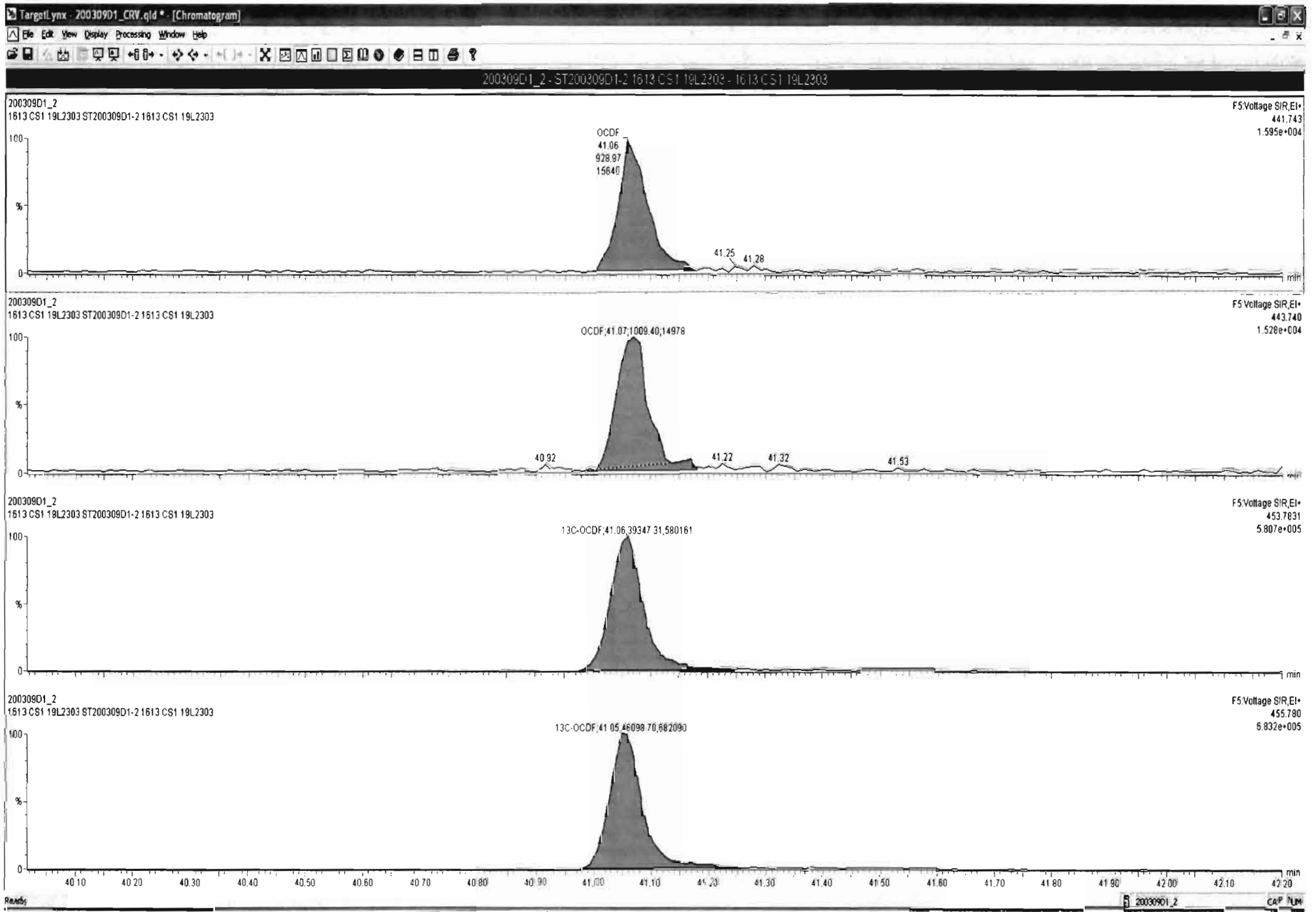


Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_2, Date: 09-Mar-2020, Time: 13:13:59, ID: ST200309D1-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

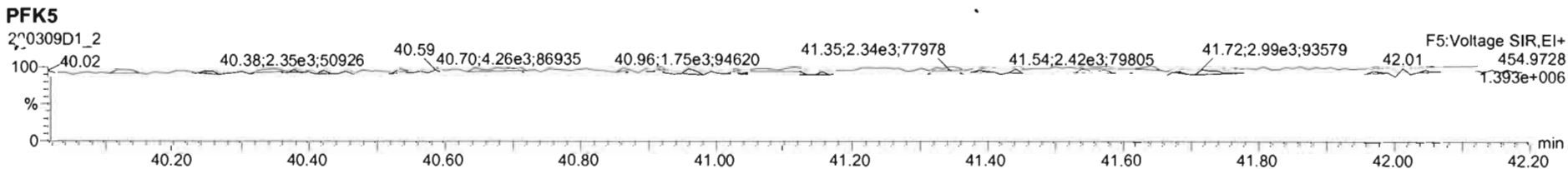
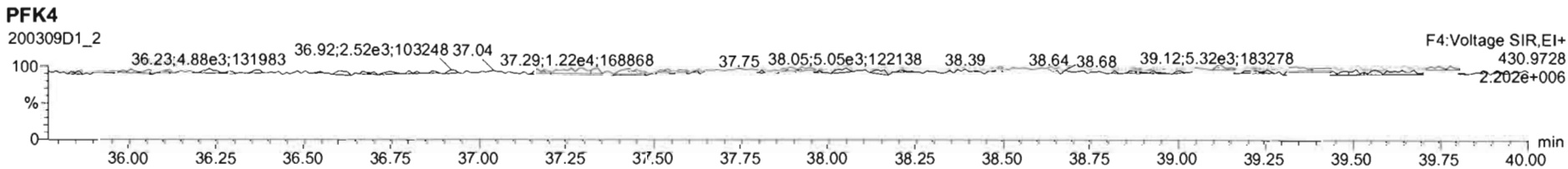
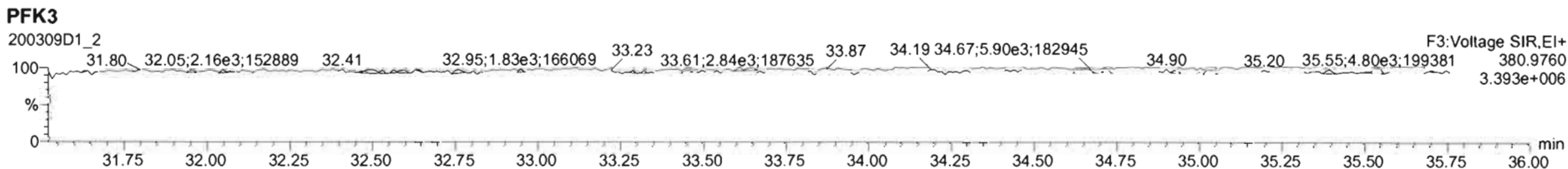
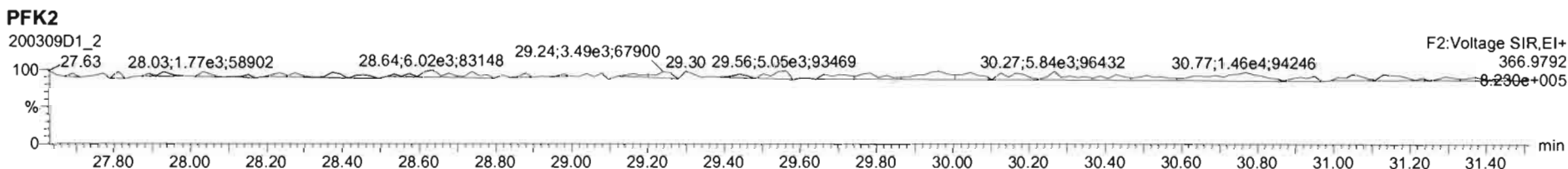
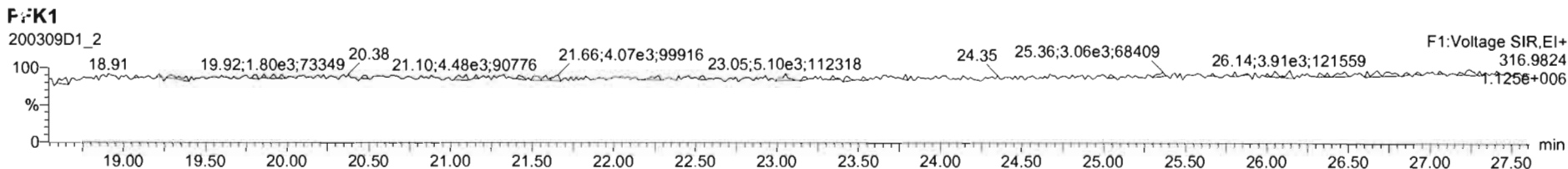




Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_2, Date: 09-Mar-2020, Time: 13:13:59, ID: ST200309D1-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303



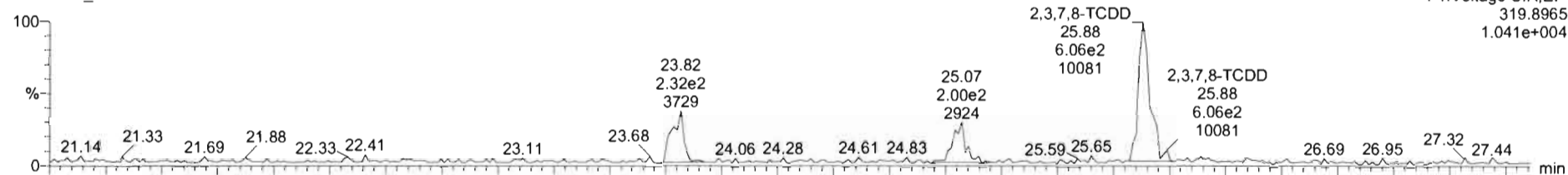
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Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

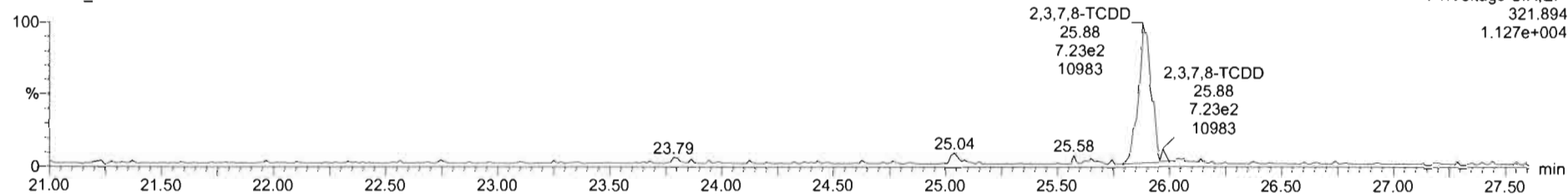
Name: 200309D1\_3, Date: 09-Mar-2020, Time: 13:58:44, ID: ST200309D1-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

**2,3,7,8-TCDD**

200309D1\_3

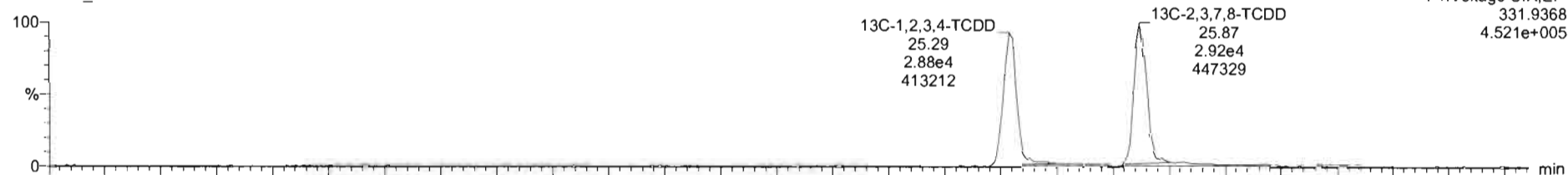


2 0309D1\_3

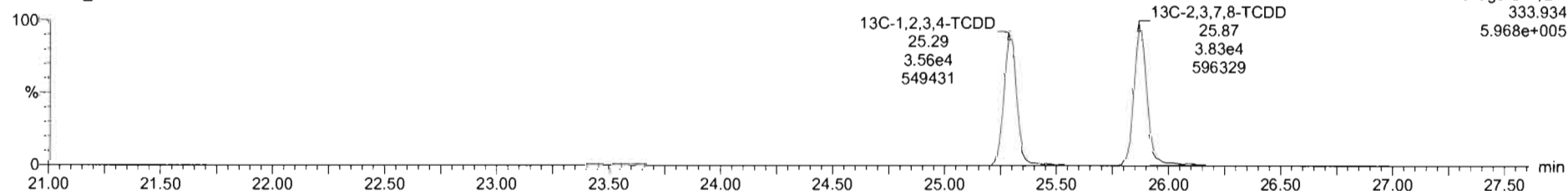


**13C-2,3,7,8-TCDD**

200309D1\_3



200309D1\_3

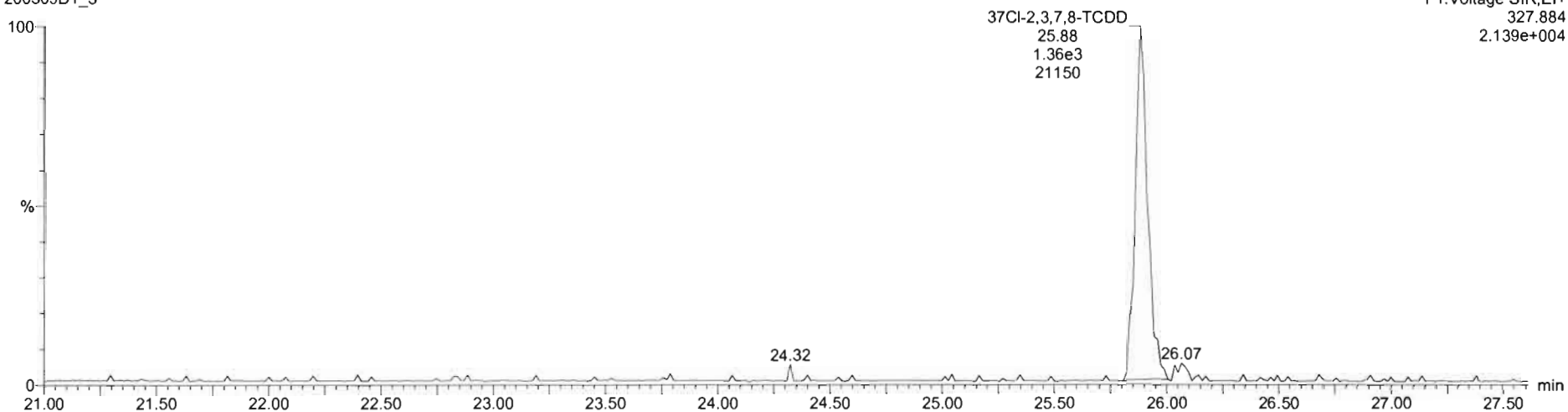


Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

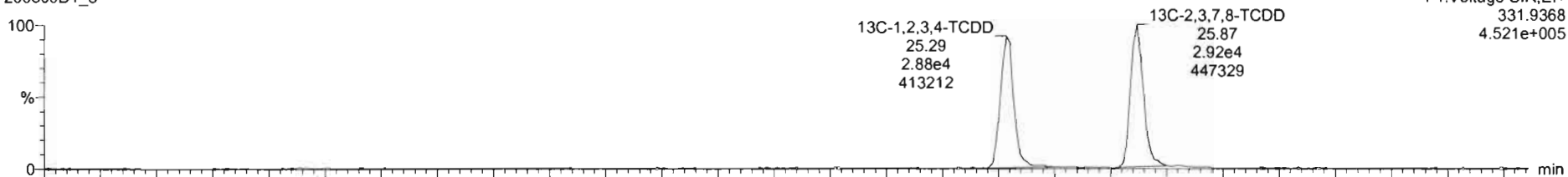
Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_3, Date: 09-Mar-2020, Time: 13:58:44, ID: ST200309D1-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

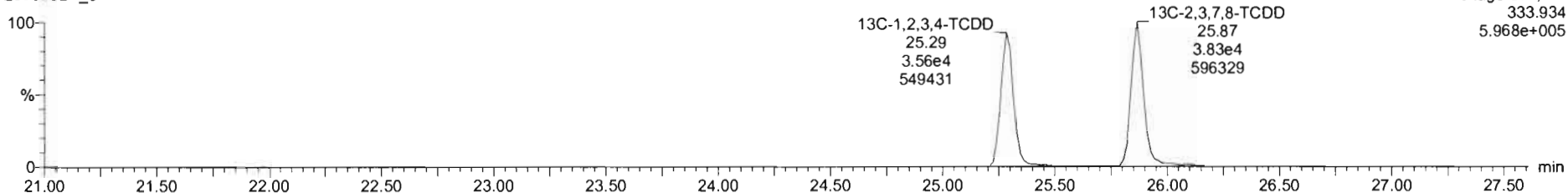
**37Cl-2,3,7,8-TCDD**  
200309D1\_3



**13C-1,2,3,4-TCDD**  
200309D1\_3



200309D1\_3





Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

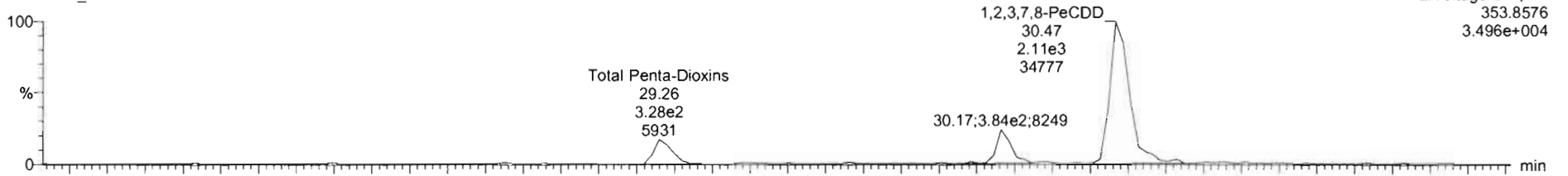
Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time

Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

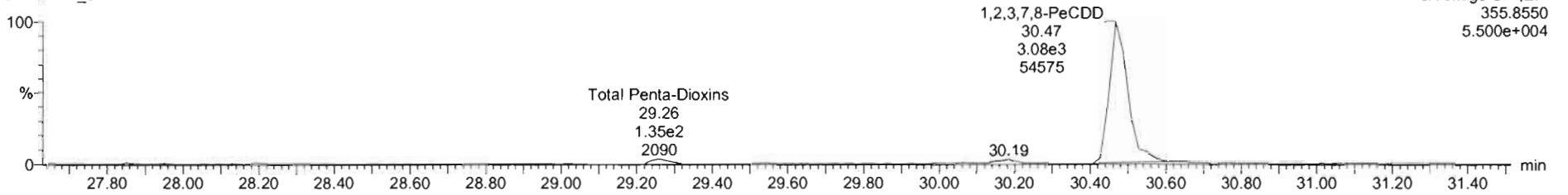
Name: 200309D1\_3, Date: 09-Mar-2020, Time: 13:58:44, ID: ST200309D1-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

**1,2,3,7,8-PeCDD**

200309D1\_3

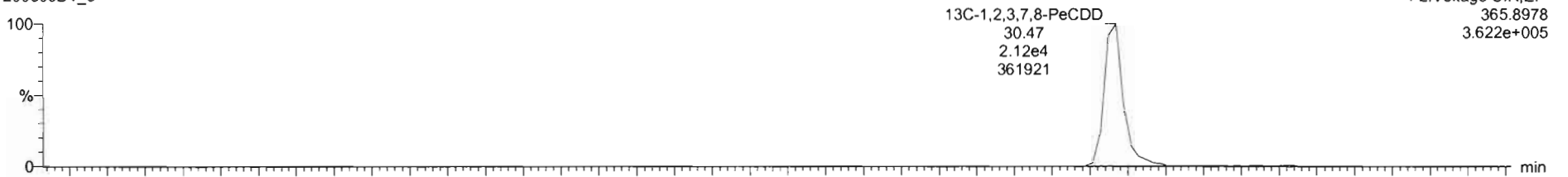


200309D1\_3

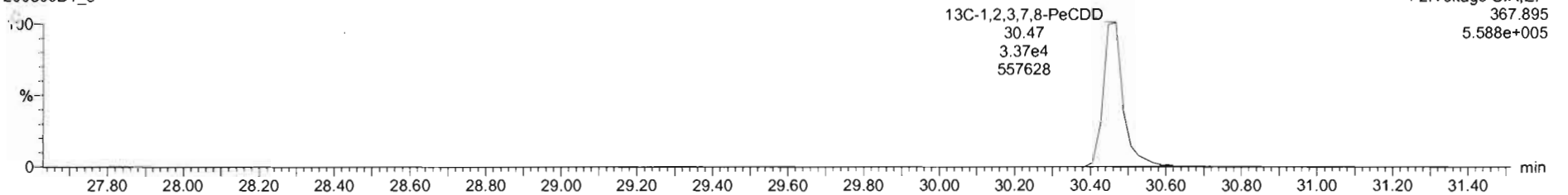


**13C-1,2,3,7,8-PeCDD**

200309D1\_3



200309D1\_3



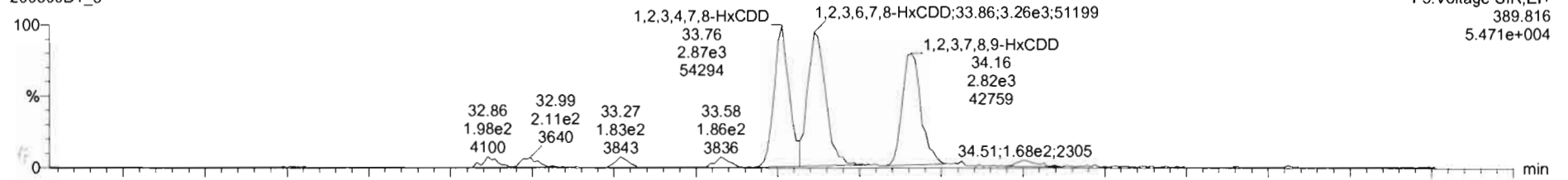
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

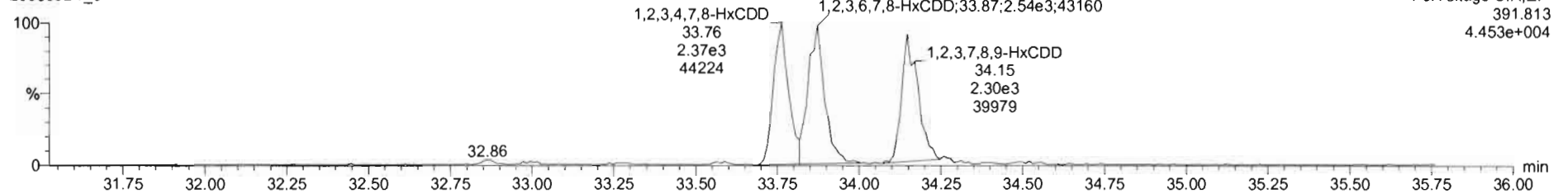
Name: 200309D1\_3, Date: 09-Mar-2020, Time: 13:58:44, ID: ST200309D1-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200309D1\_3

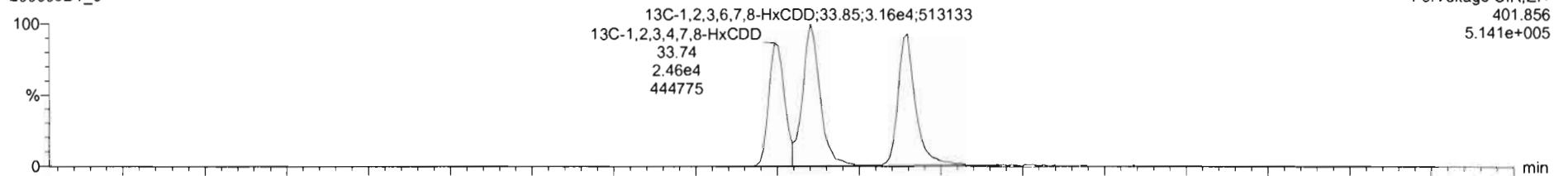


200309D1\_3

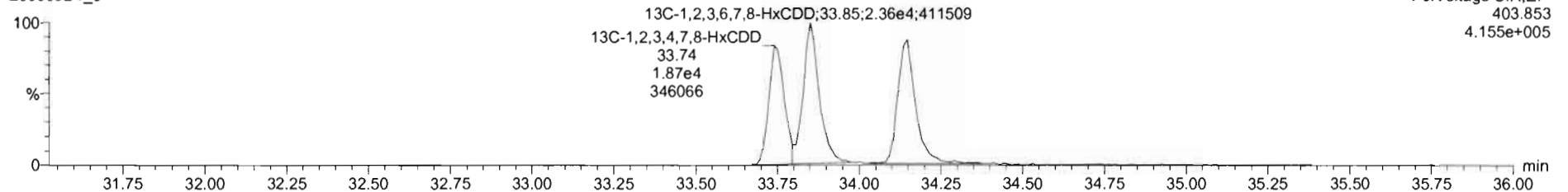


13C-1,2,3,4,7,8-HxCDD

200309D1\_3



200309D1\_3



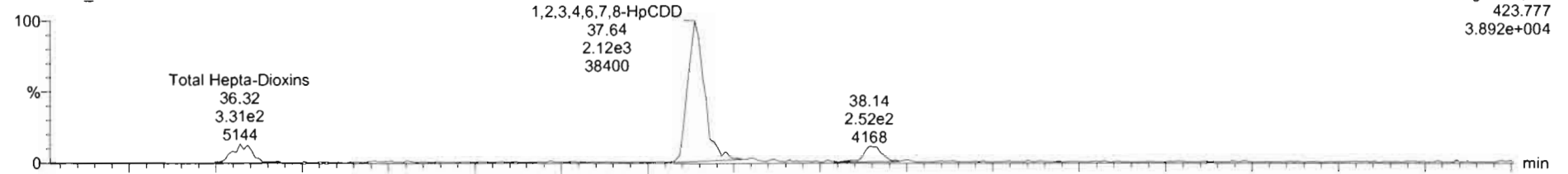
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Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

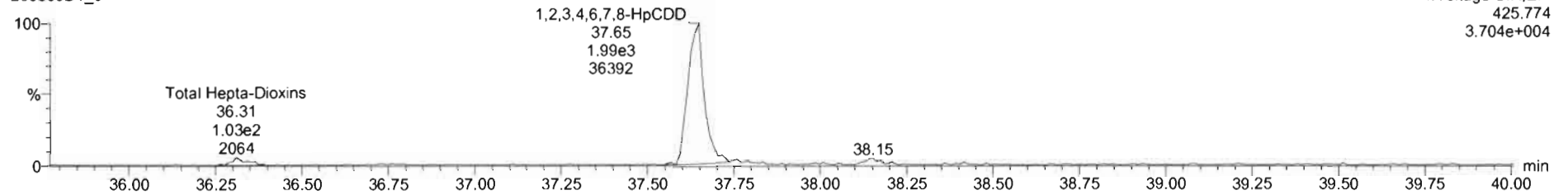
Name: 200309D1\_3, Date: 09-Mar-2020, Time: 13:58:44, ID: ST200309D1-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200309D1\_3

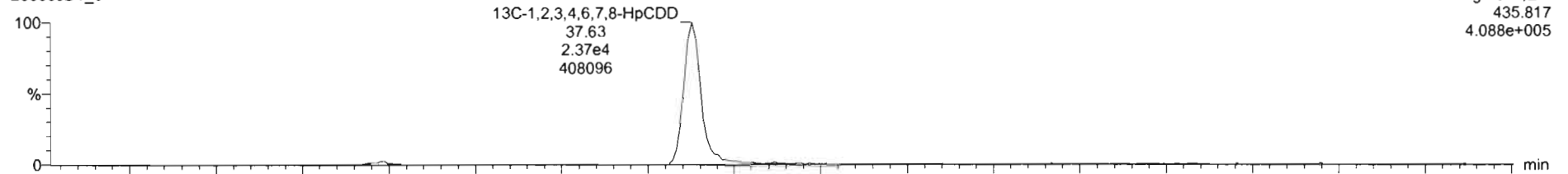


200309D1\_3

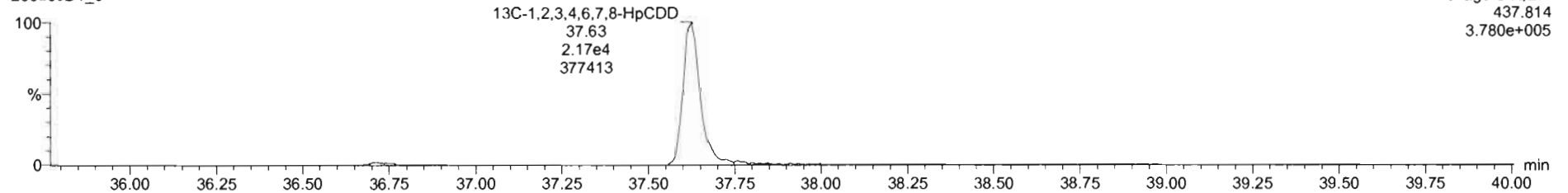


13C-1,2,3,4,6,7,8-HpCDD

200309D1\_3



200309D1\_3

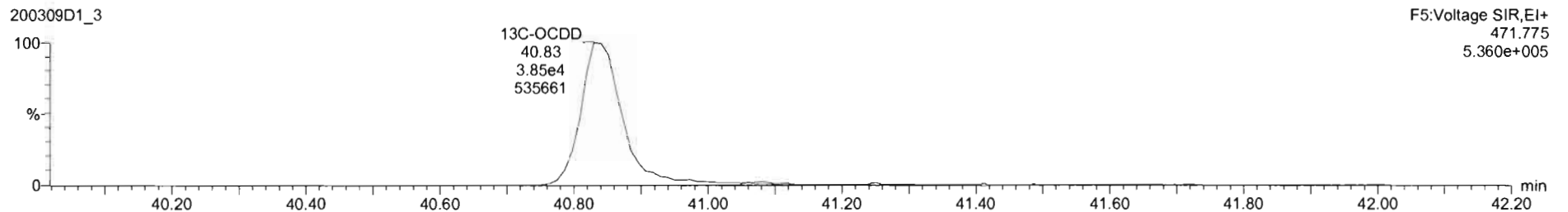
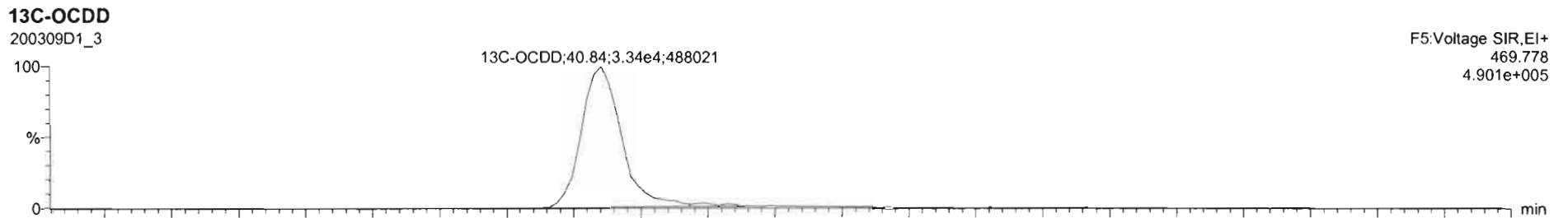
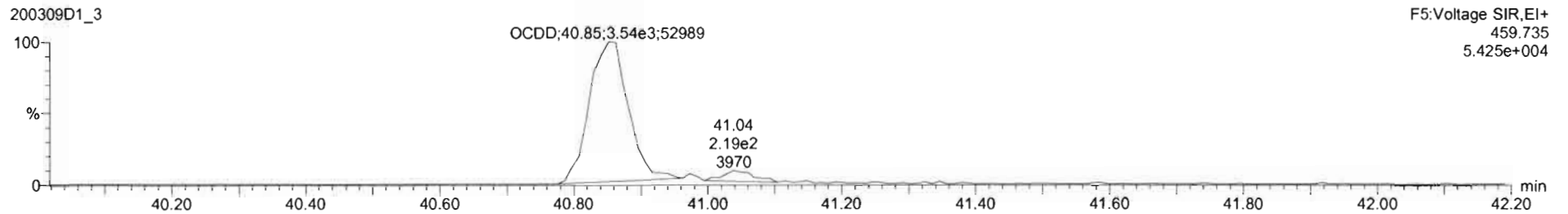
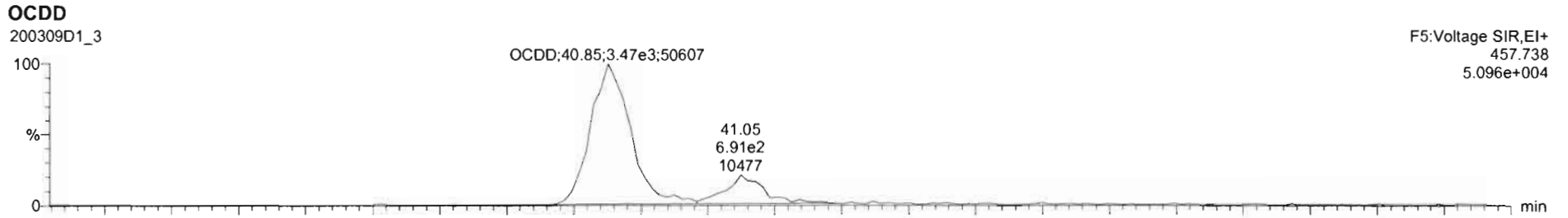


Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time

Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_3, Date: 09-Mar-2020, Time: 13:58:44, ID: ST200309D1-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304



Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

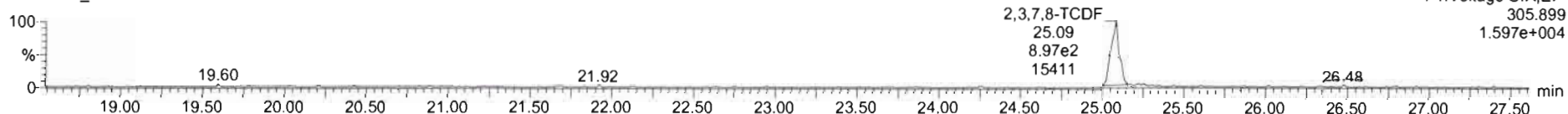
Name: 200309D1\_3, Date: 09-Mar-2020, Time: 13:58:44, ID: ST200309D1-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

**2,3,7,8-TCDF**

200309D1\_3

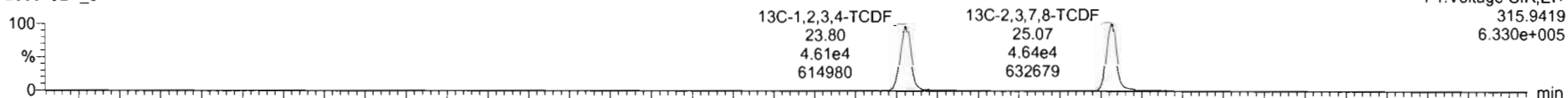


200309D1\_3

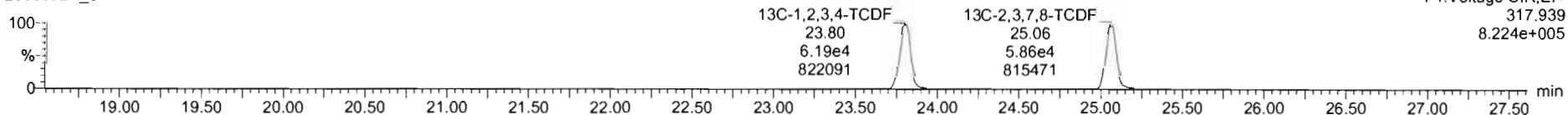


**13C-2,3,7,8-TCDF**

200309D1\_3

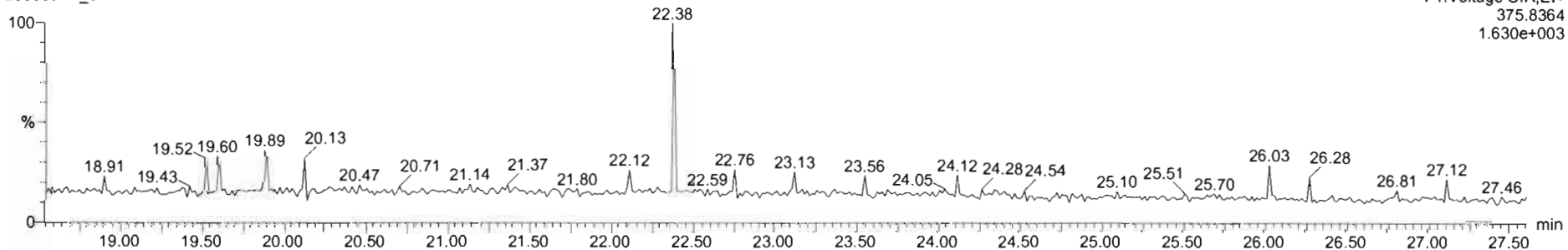


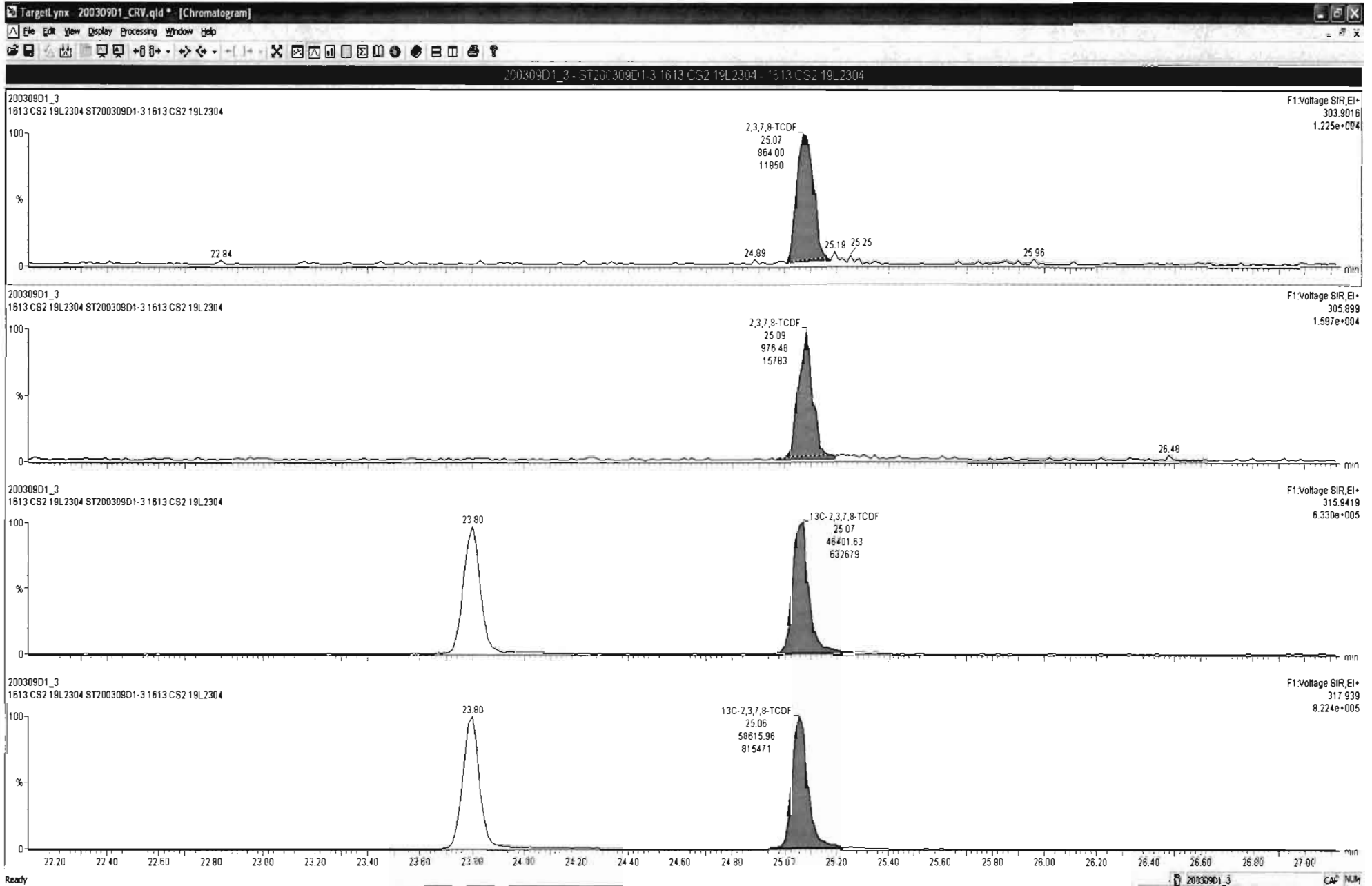
200309D1\_3



**DPE1**

200309D1\_3





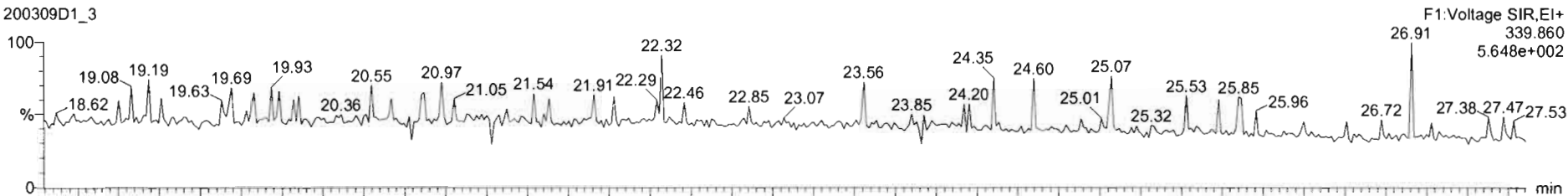
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

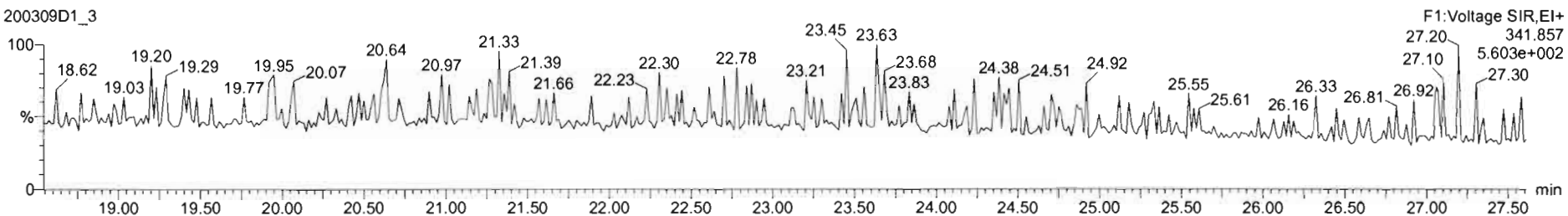
Name: 200309D1\_3, Date: 09-Mar-2020, Time: 13:58:44, ID: ST200309D1-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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200309D1\_3

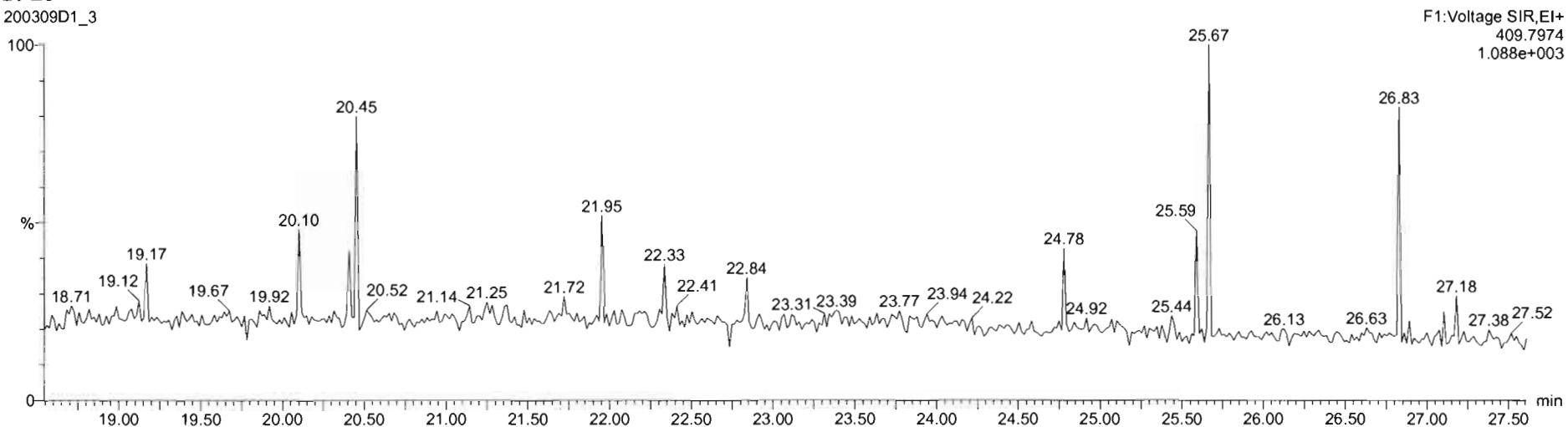


200309D1\_3



DPE6

200309D1\_3



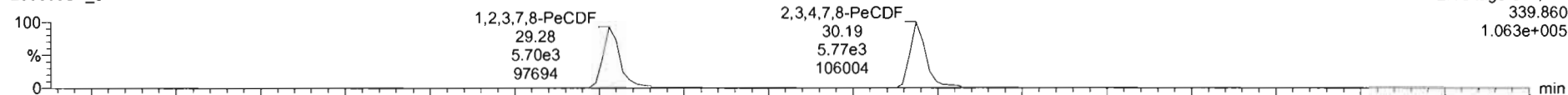
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

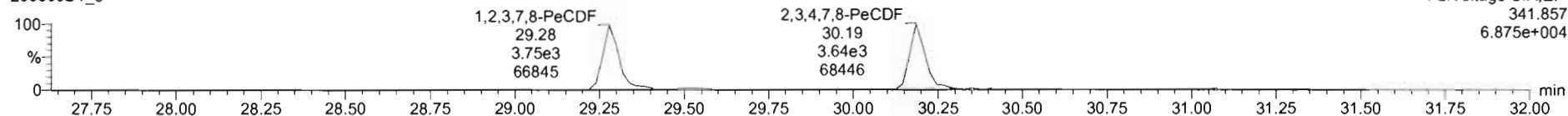
Name: 200309D1\_3, Date: 09-Mar-2020, Time: 13:58:44, ID: ST200309D1-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

**1,2,3,7,8-PeCDF**

200309D1\_3

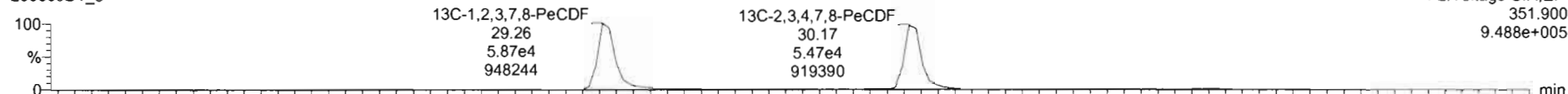


200309D1\_3

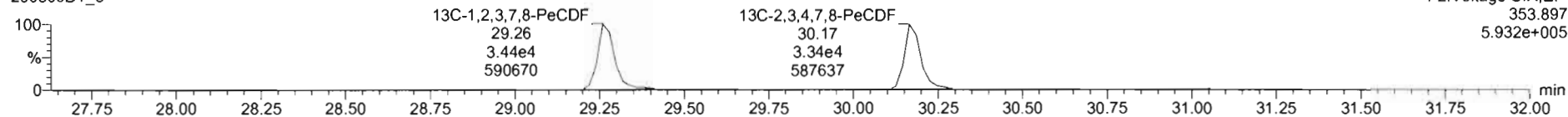


**13C-1,2,3,7,8-PeCDF**

200309D1\_3

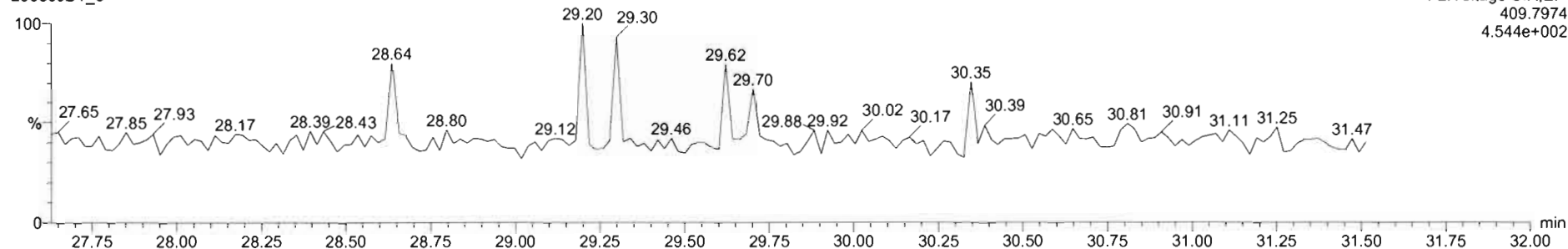


200309D1\_3



**DPE2**

200309D1\_3





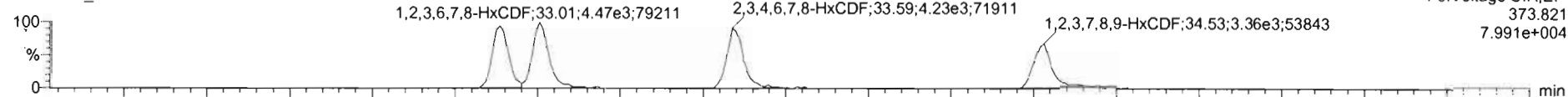
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

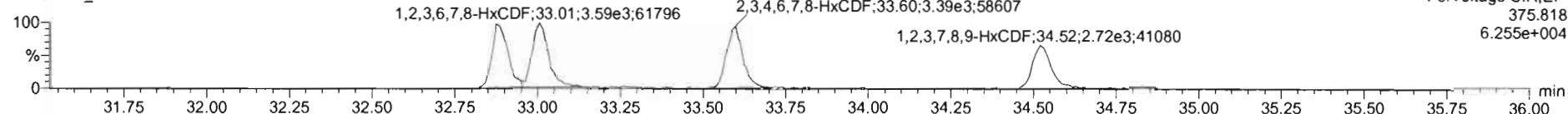
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**1,2,3,4,7,8-HxCDF**

200309D1\_3

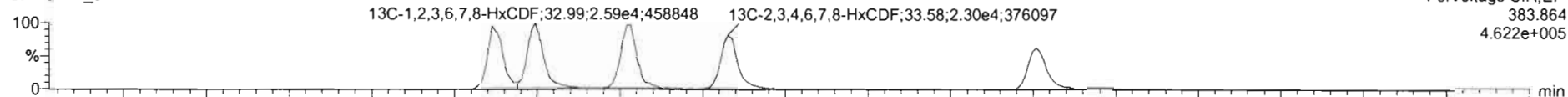


200309D1\_3

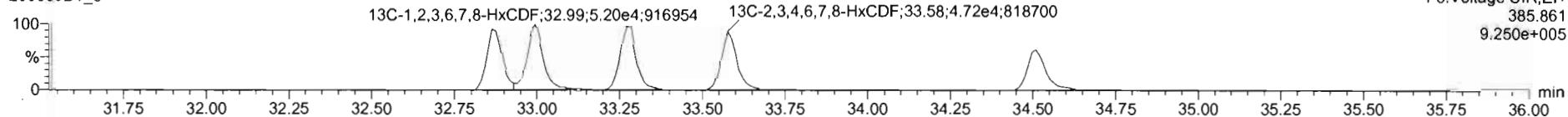


**13C-1,2,3,4,7,8-HxCDF**

200309D1\_3

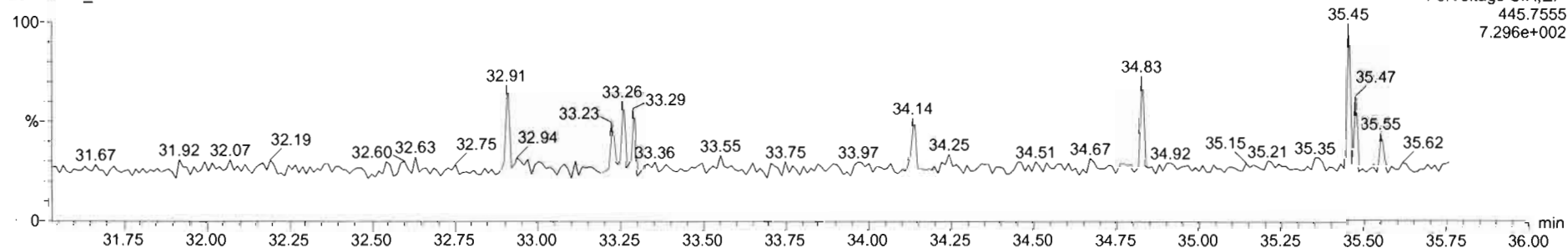


200309D1\_3



**DPE3**

200309D1\_3

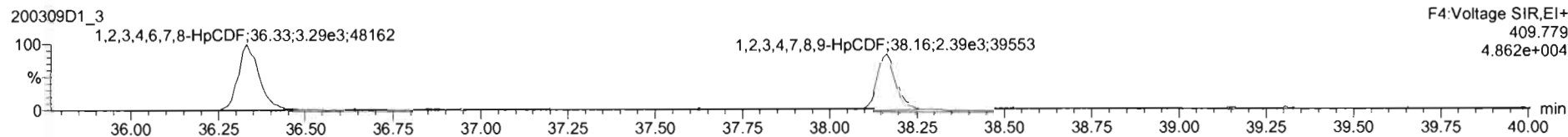
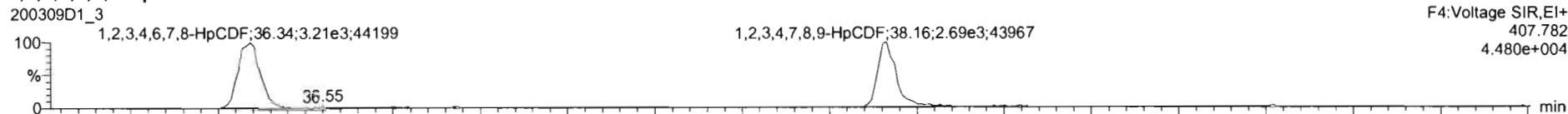


Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

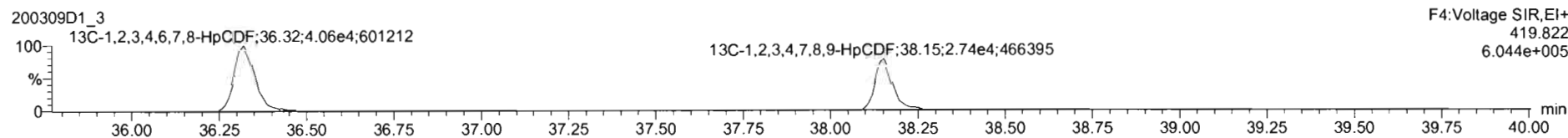
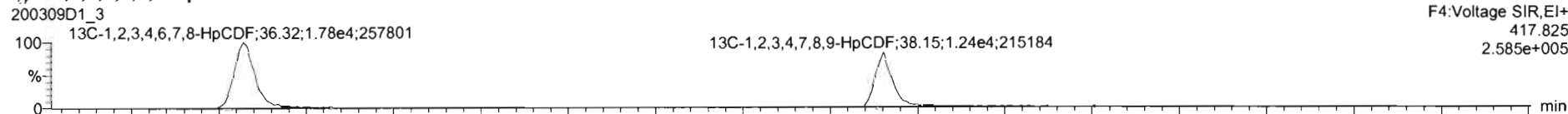
Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_3, Date: 09-Mar-2020, Time: 13:58:44, ID: ST200309D1-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

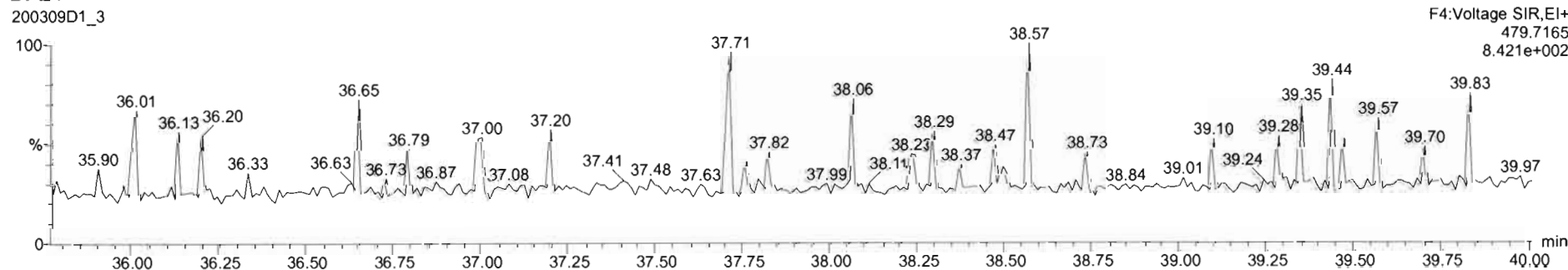
1,2,3,4,6,7,8-HpCDF



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



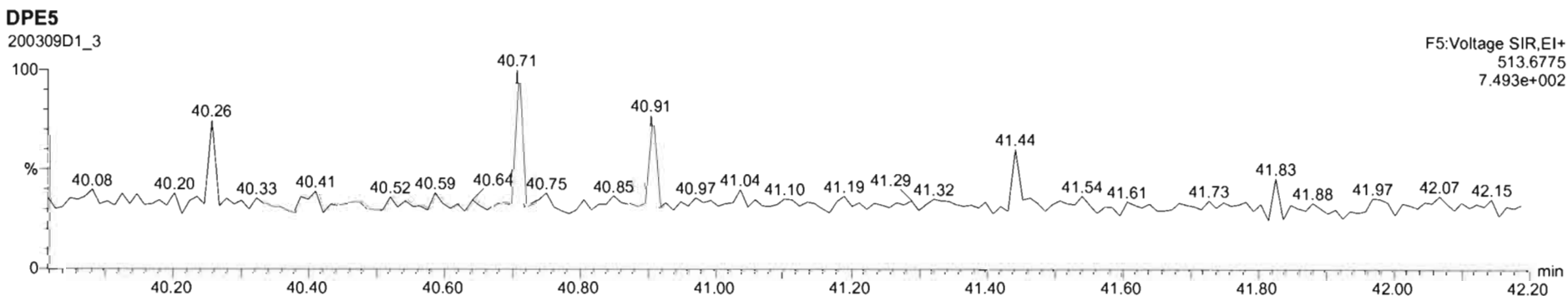
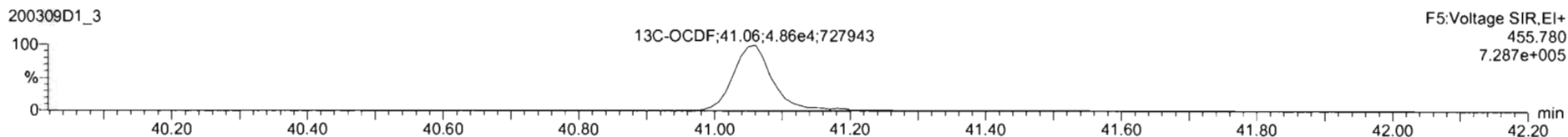
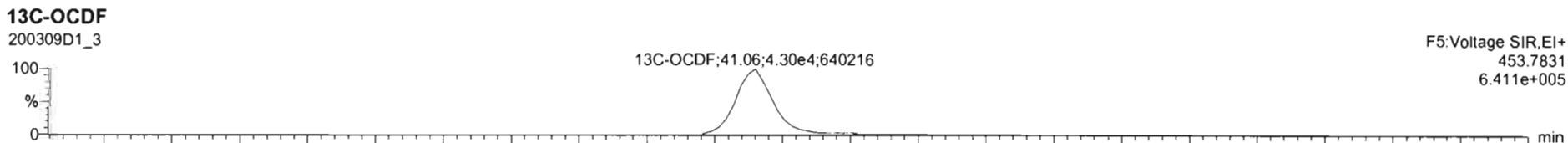
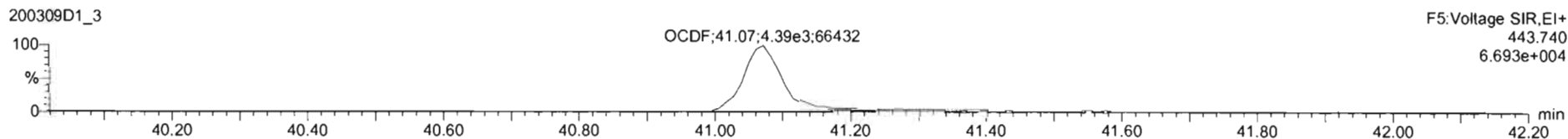
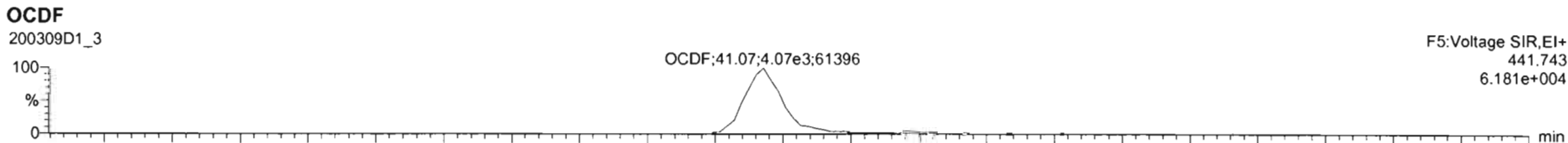
DPE4



Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_3, Date: 09-Mar-2020, Time: 13:58:44, ID: ST200309D1-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

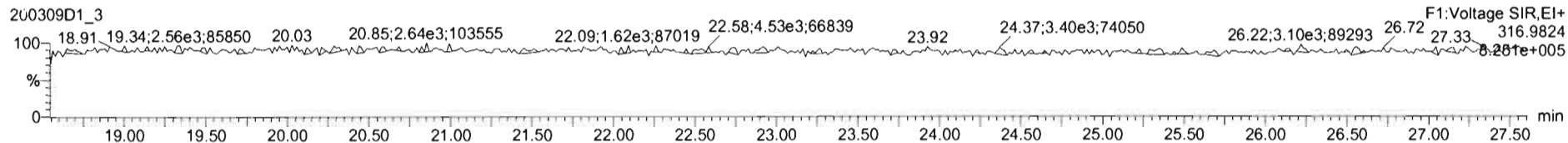


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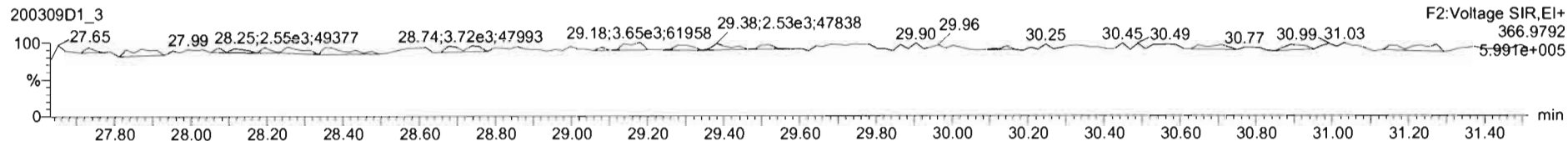
Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

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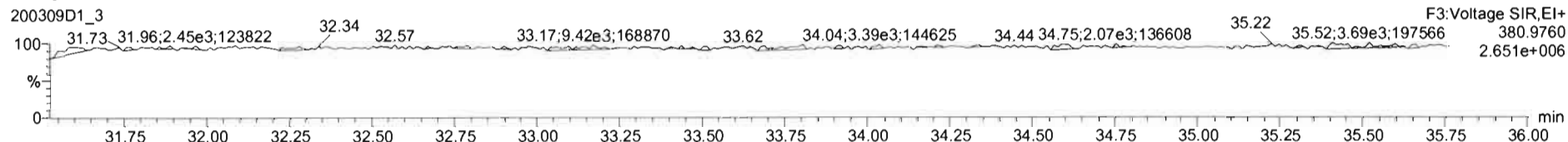
**PFK1**



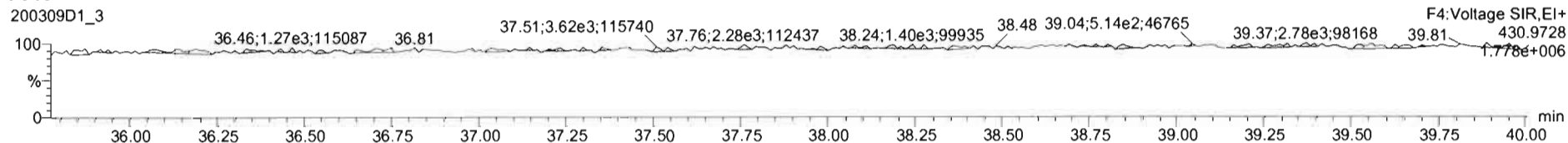
**PFK2**



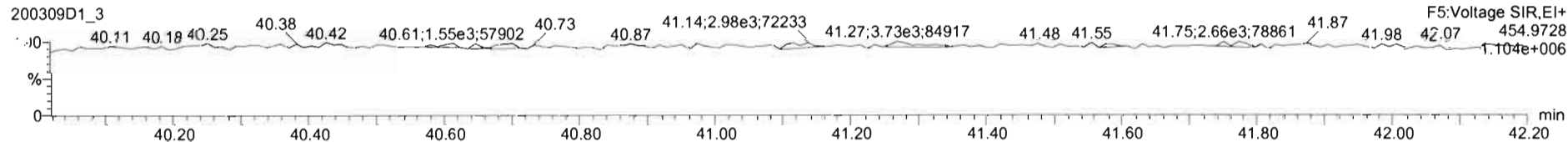
**PFK3**



**PFK4**



**PFK5**



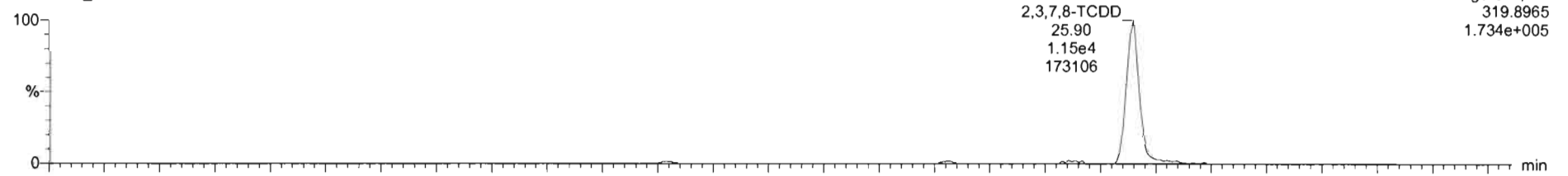
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Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

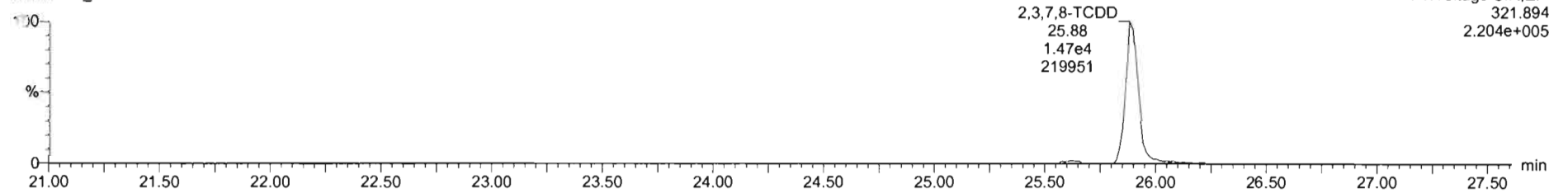
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**2,3,7,8-TCDD**

200309D1\_4

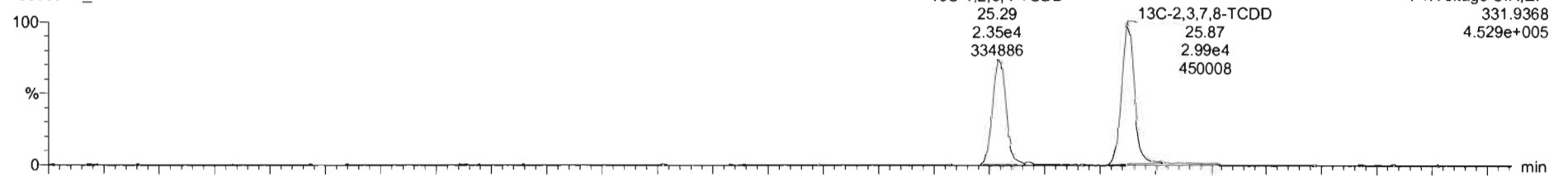


200309D1\_4

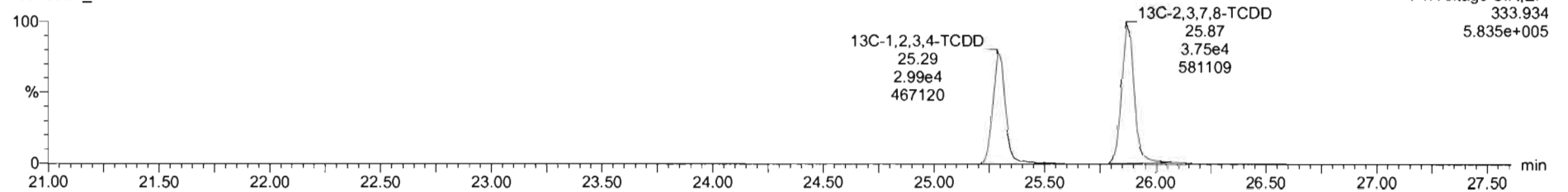


**13C-2,3,7,8-TCDD**

200309D1\_4



200309D1\_4



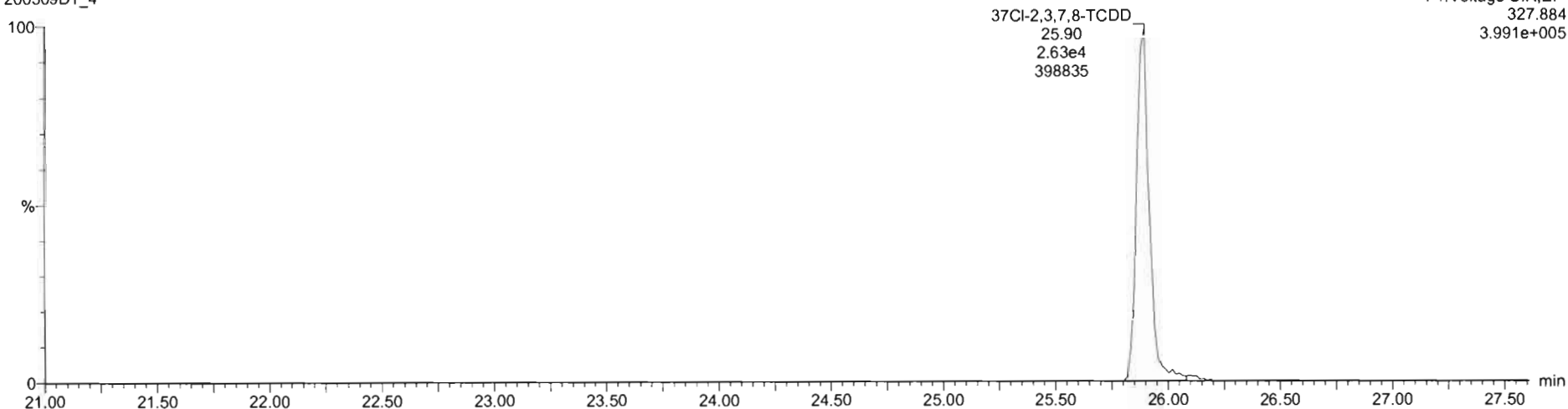
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Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_4, Date: 09-Mar-2020, Time: 14:43:39, ID: ST200309D1-4 1613 CS4 19L2306, Description: 1613 CS4 19L2306

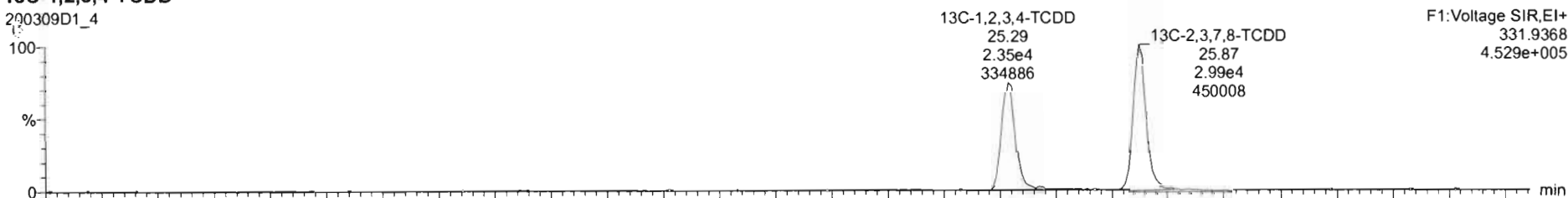
**37Cl-2,3,7,8-TCDD**

200309D1\_4

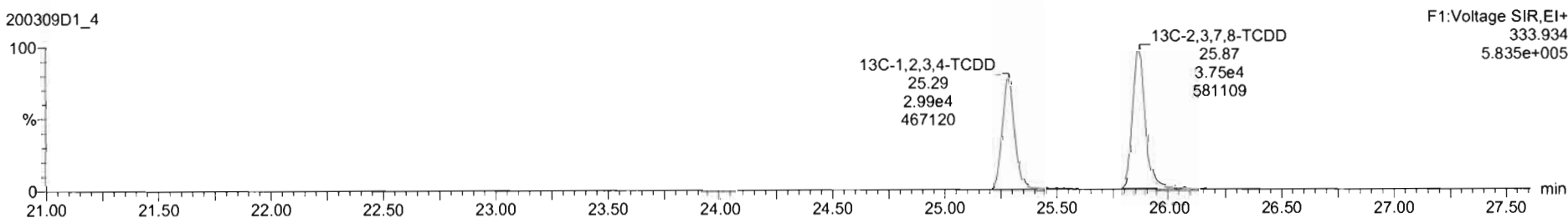


**13C-1,2,3,4-TCDD**

200309D1\_4



200309D1\_4



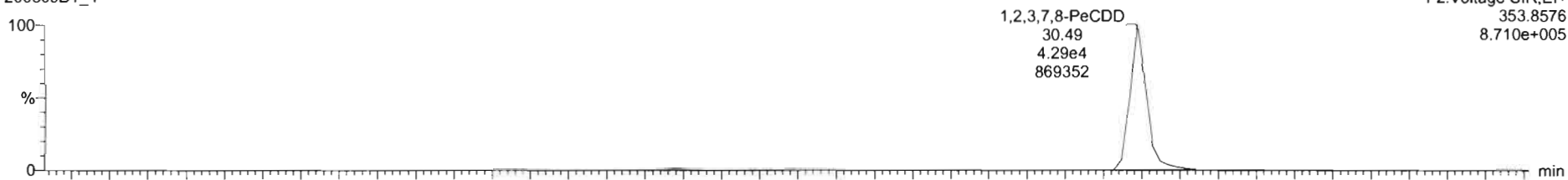
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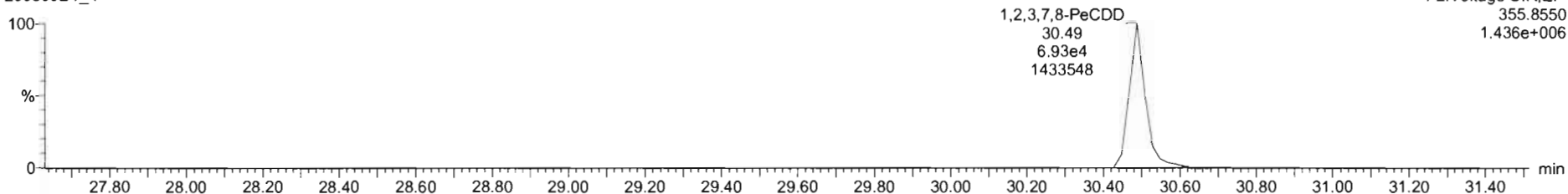
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**1,2,3,7,8-PeCDD**

200309D1\_4

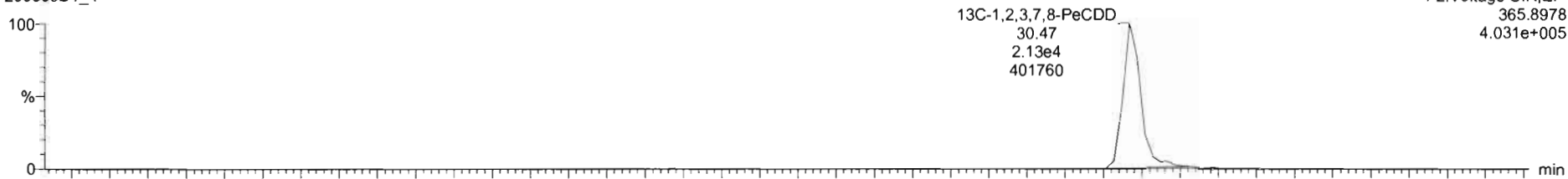


200309D1\_4

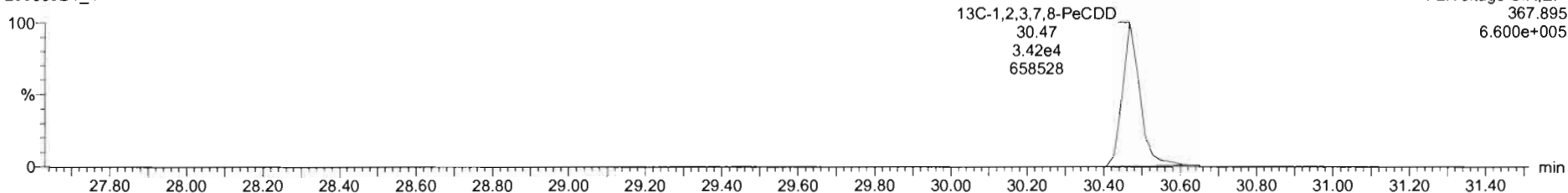


**13C-1,2,3,7,8-PeCDD**

200309D1\_4



200309D1\_4



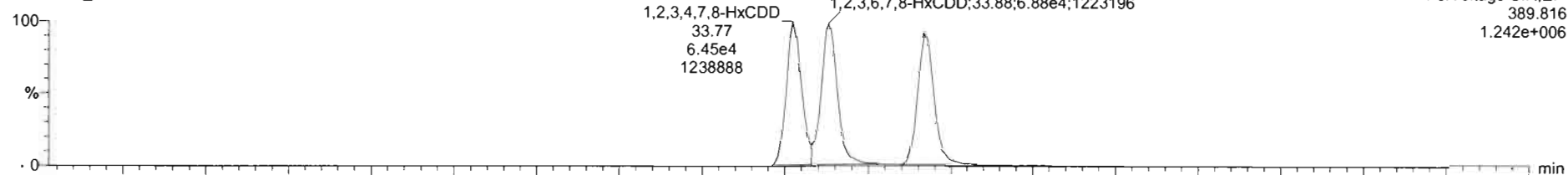
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Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_4, Date: 09-Mar-2020, Time: 14:43:39, ID: ST200309D1-4 1613 CS4 19L2306, Description: 1613 CS4 19L2306

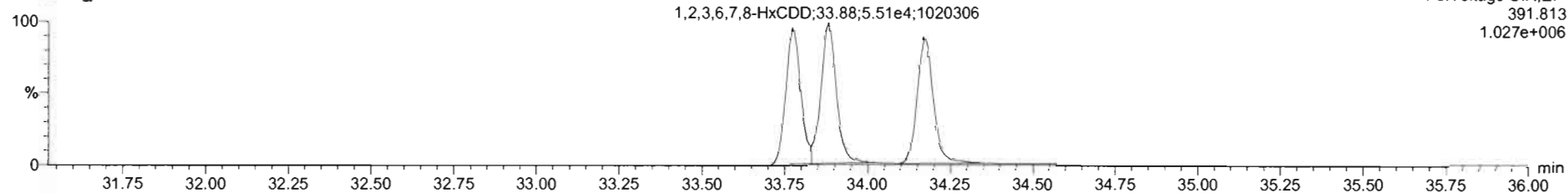
1,2,3,4,7,8-HxCDD

200309D1\_4



F3: Voltage SIR, EI+  
389.816  
1.242e+006

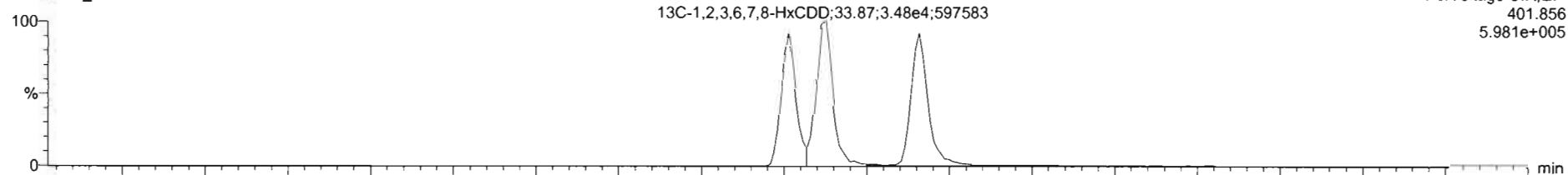
200309D1\_4



F3: Voltage SIR, EI+  
391.813  
1.027e+006

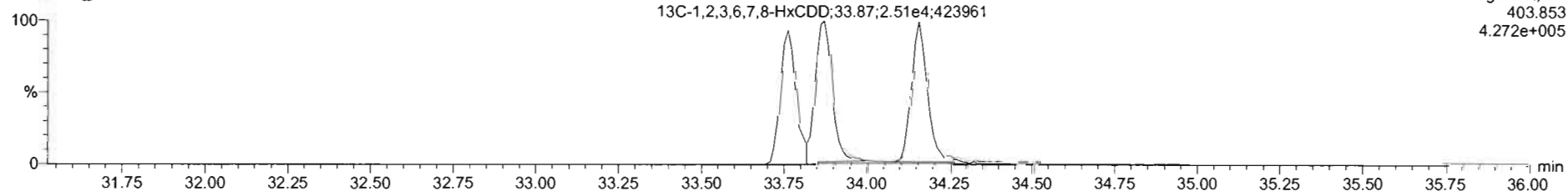
13C-1,2,3,4,7,8-HxCDD

200309D1\_4



F3: Voltage SIR, EI+  
401.856  
5.981e+005

200309D1\_4



F3: Voltage SIR, EI+  
403.853  
4.272e+005



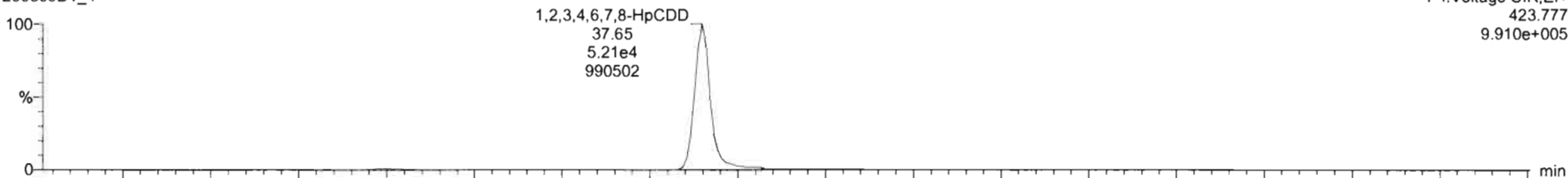
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Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_4, Date: 09-Mar-2020, Time: 14:43:39, ID: ST200309D1-4 1613 CS4 19L2306, Description: 1613 CS4 19L2306

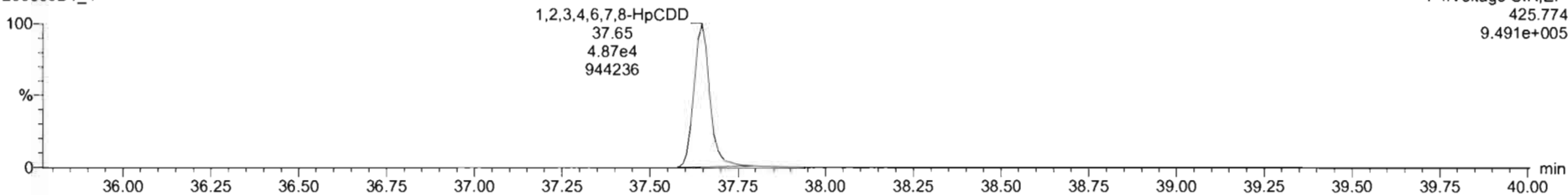
1,2,3,4,6,7,8-HpCDD

200309D1\_4



F4:Voltage SIR,EI+  
423.777  
9.910e+005

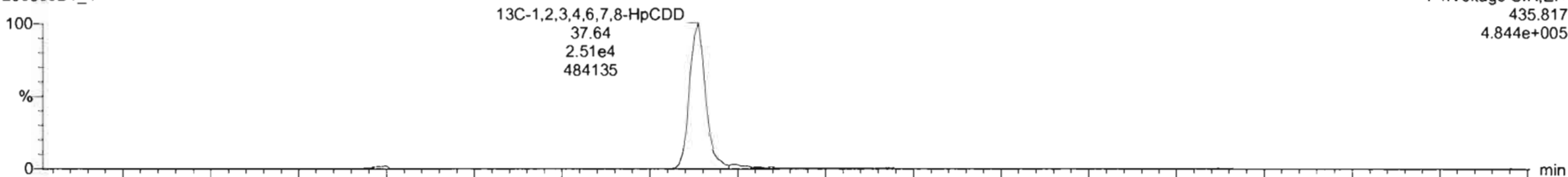
200309D1\_4



F4:Voltage SIR,EI+  
425.774  
9.491e+005

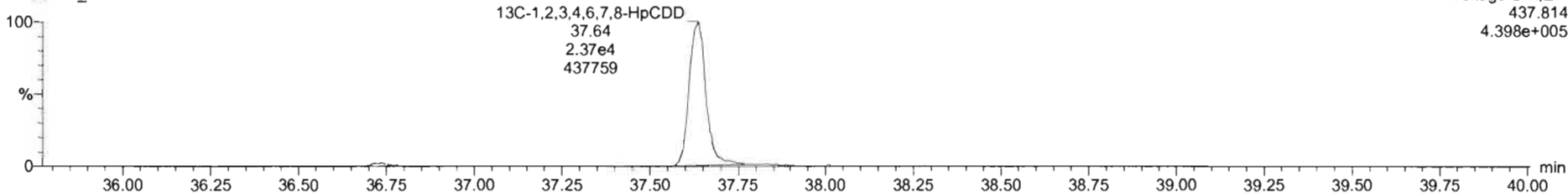
13C-1,2,3,4,6,7,8-HpCDD

200309D1\_4



F4:Voltage SIR,EI+  
435.817  
4.844e+005

200309D1\_4



F4:Voltage SIR,EI+  
437.814  
4.398e+005

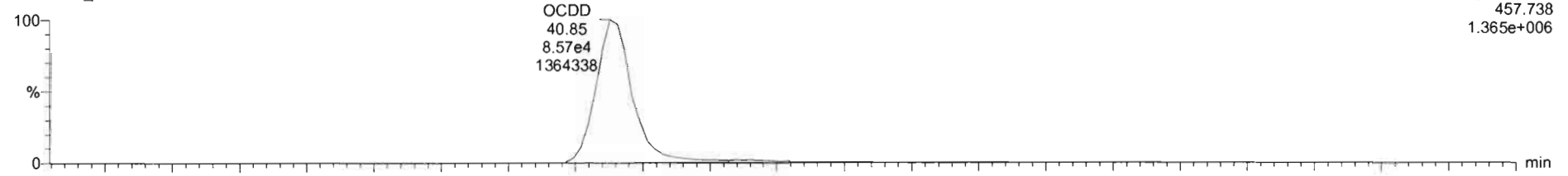
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

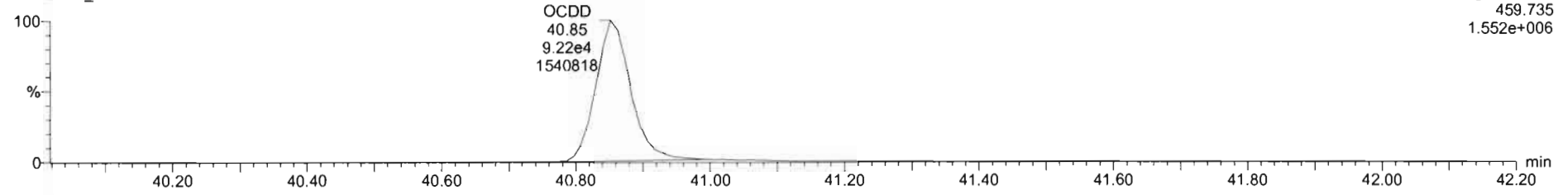
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**OCDD**

200309D1\_4

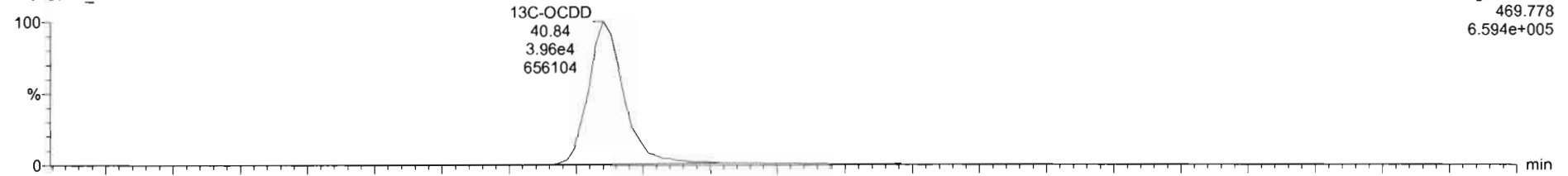


200309D1\_4

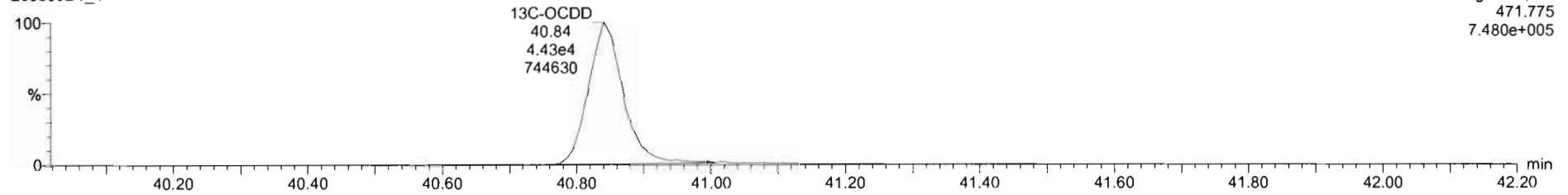


**13C-OCDD**

200309D1\_4



200309D1\_4



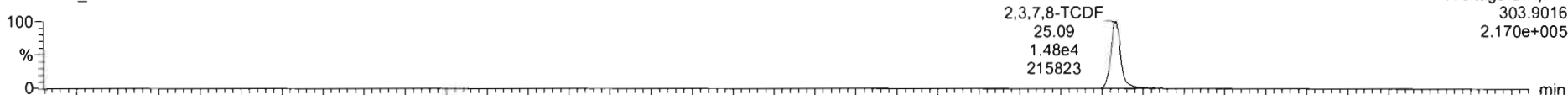
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Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

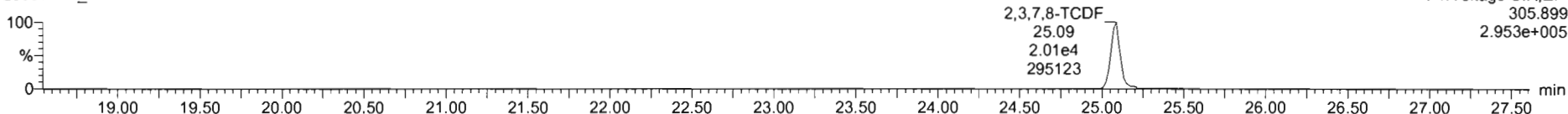
Name: 200309D1\_4, Date: 09-Mar-2020, Time: 14:43:39, ID: ST200309D1-4 1613 CS4 19L2306, Description: 1613 CS4 19L2306

**2,3,7,8-TCDF**

200309D1\_4

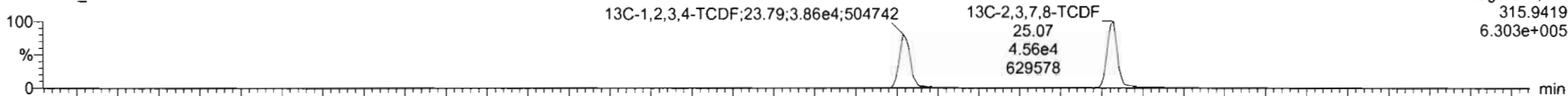


200309D1\_4

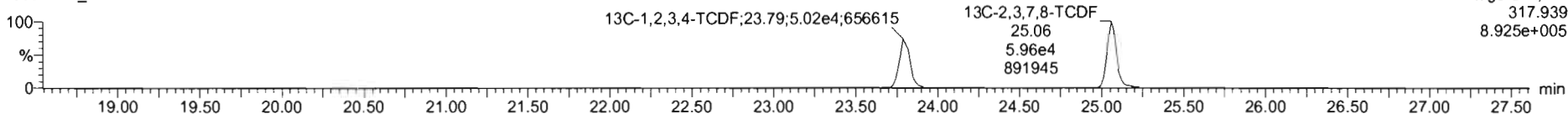


**13C-2,3,7,8-TCDF**

200309D1\_4

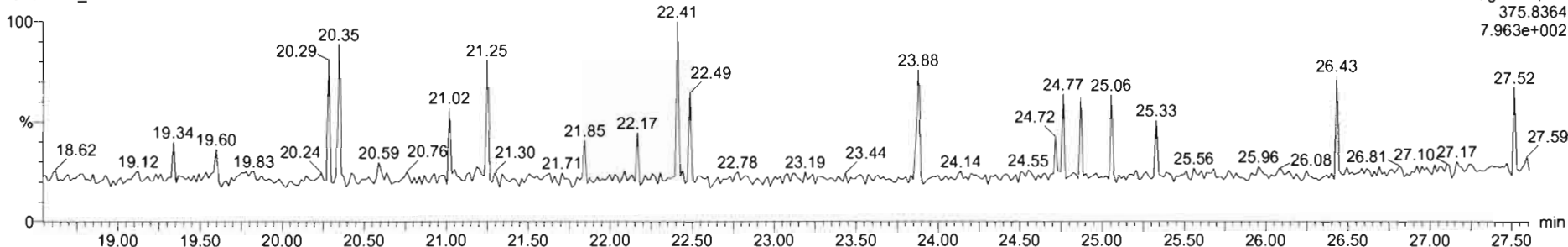


200309D1\_4



**DPE1**

200309D1\_4



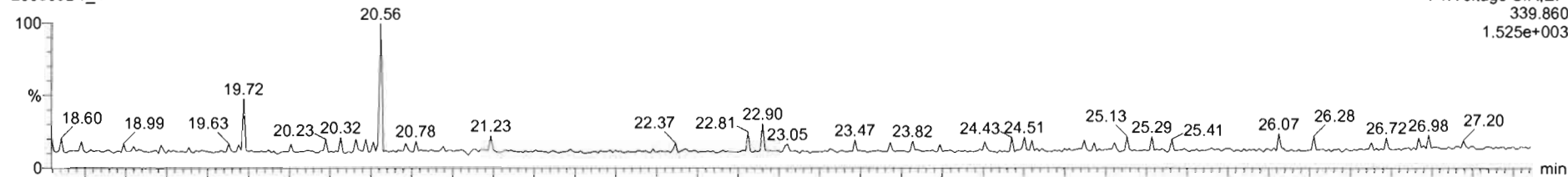
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

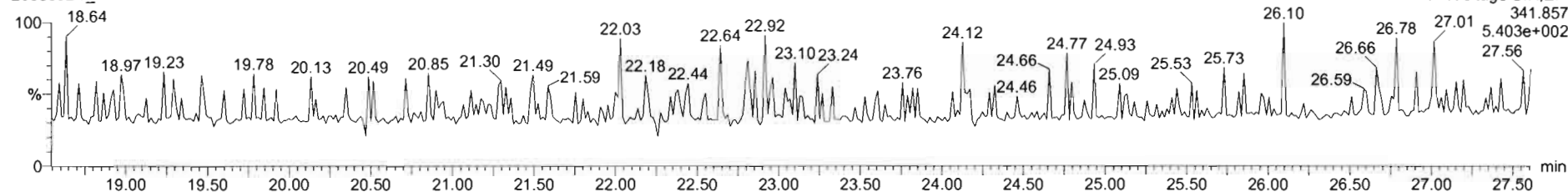
Name: 200309D1\_4, Date: 09-Mar-2020, Time: 14:43:39, ID: ST200309D1-4 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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200309D1\_4

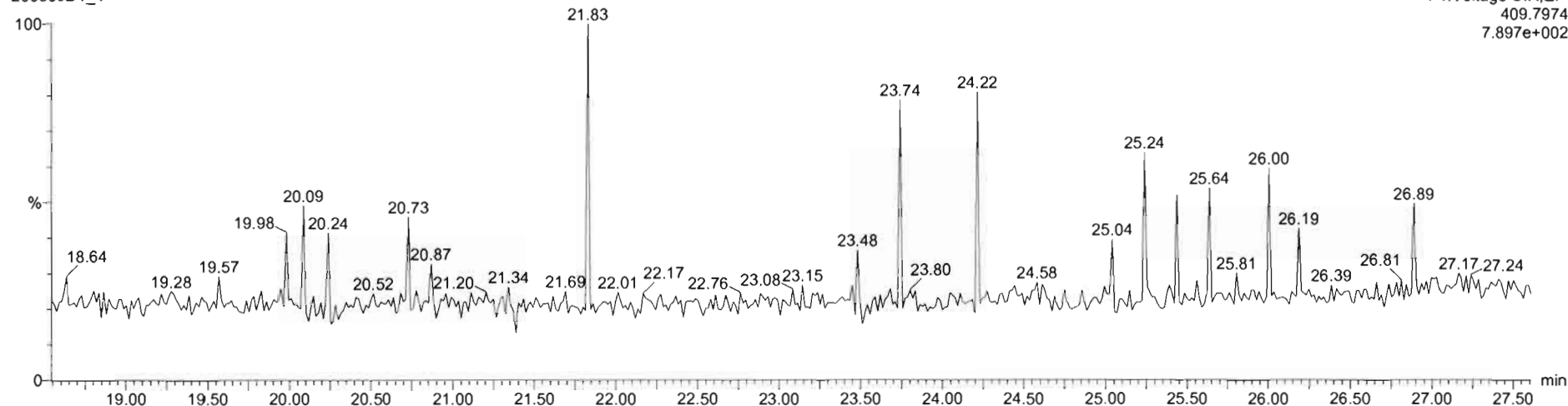


200309D1\_4



DPE6

200309D1\_4

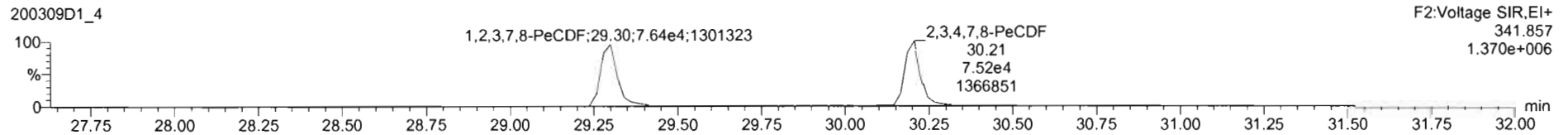
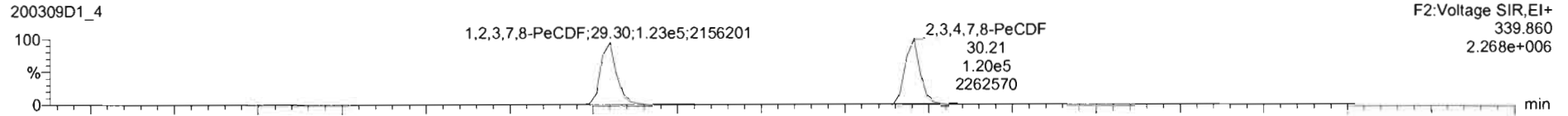


Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

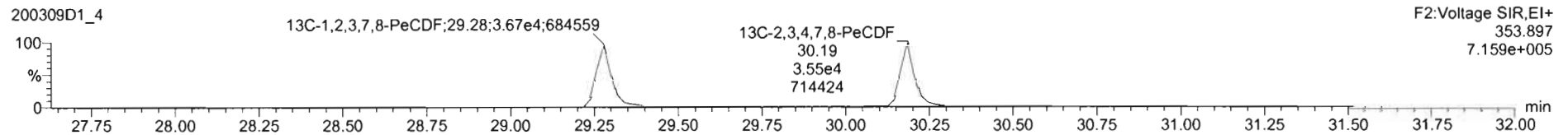
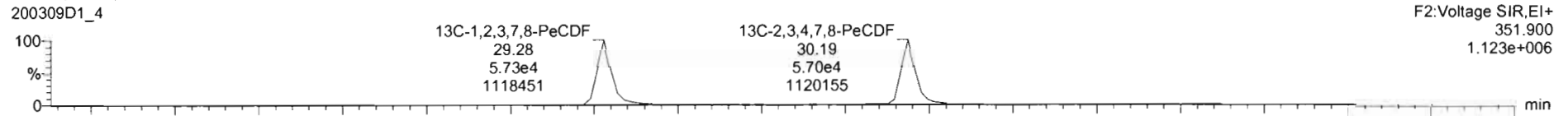
Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_4, Date: 09-Mar-2020, Time: 14:43:39, ID: ST200309D1-4 1613 CS4 19L2306, Description: 1613 CS4 19L2306

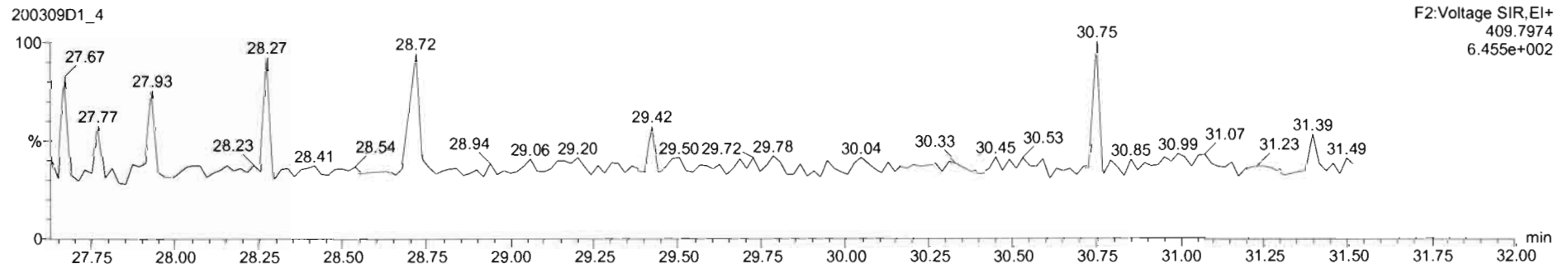
**1,2,3,7,8-PeCDF**



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



**DOE2**



Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

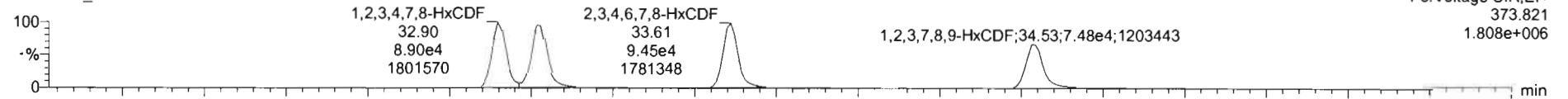
Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time

Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

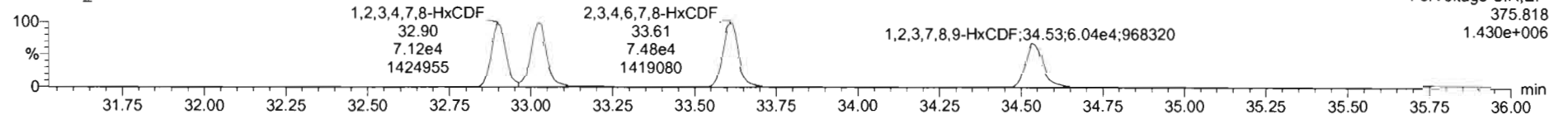
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**1,2,3,4,7,8-HxCDF**

200309D1\_4

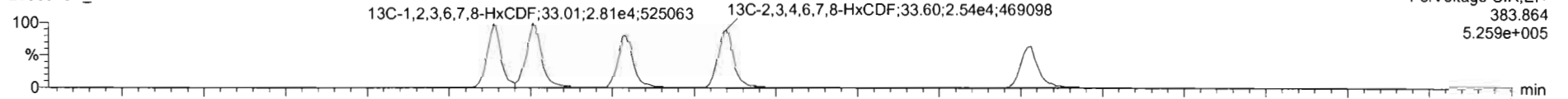


200309D1\_4

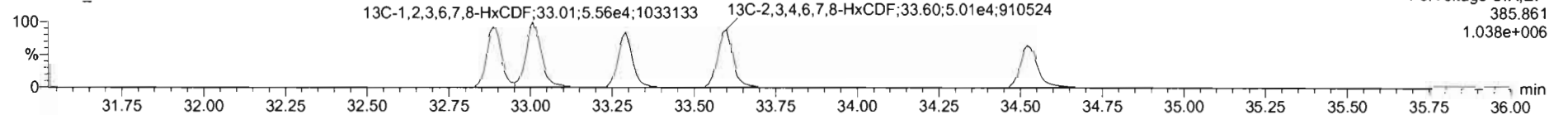


**13C-1,2,3,4,7,8-HxCDF**

200309D1\_4

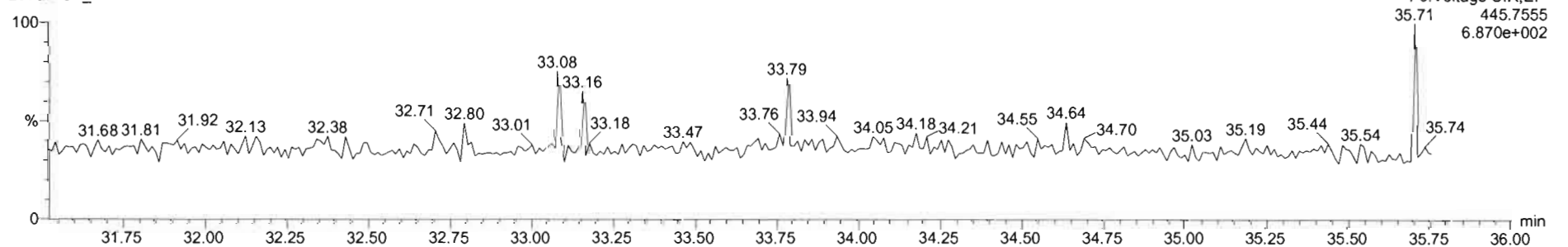


200309D1\_4



**DPE3**

200309D1\_4

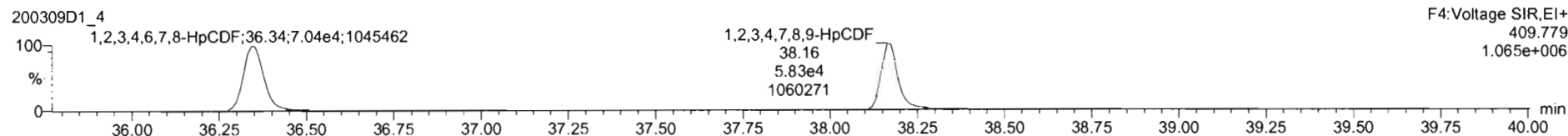
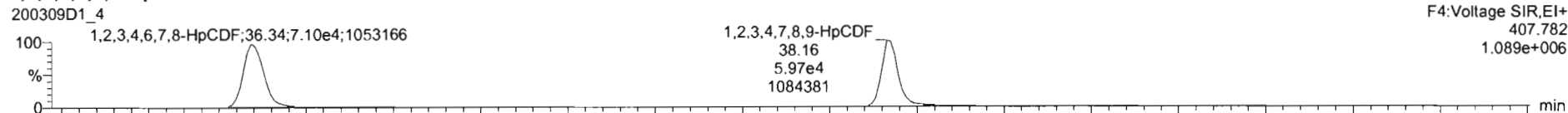


Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

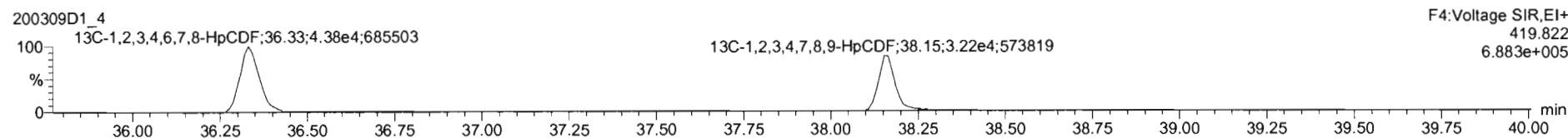
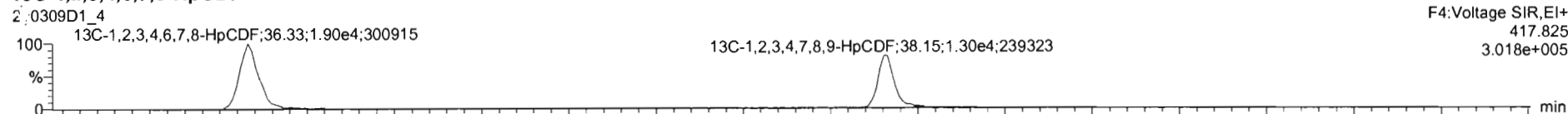
Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
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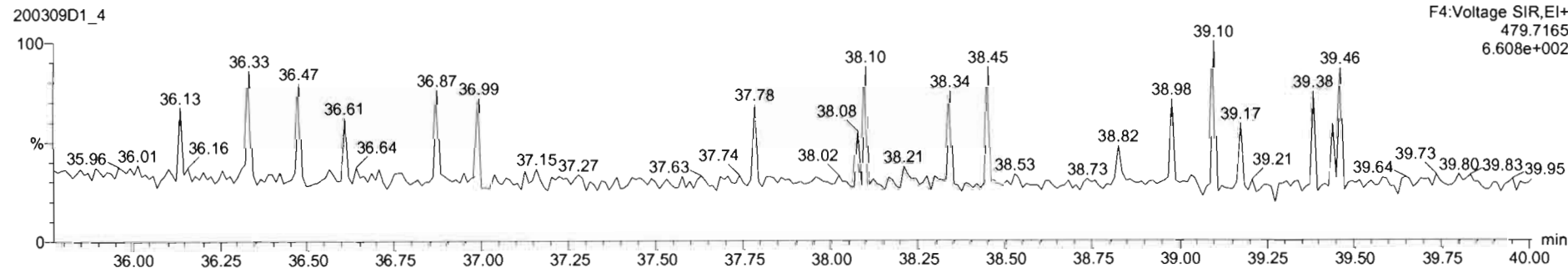
1,2,3,4,6,7,8-HpCDF



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



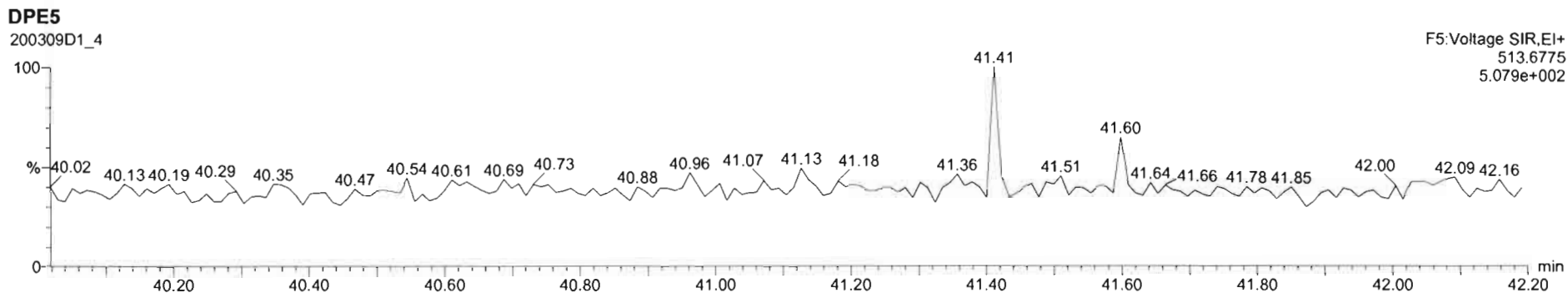
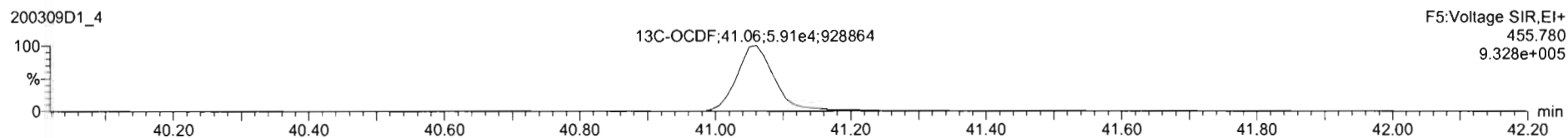
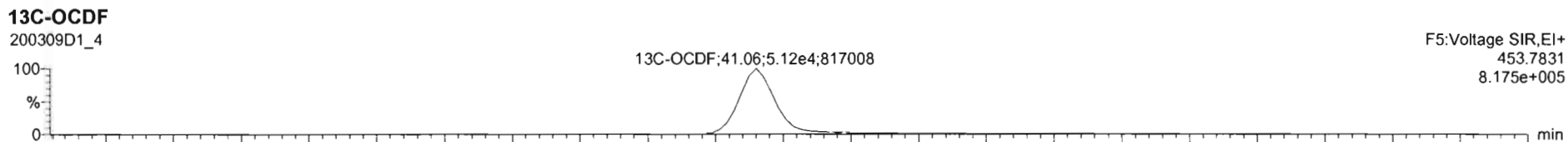
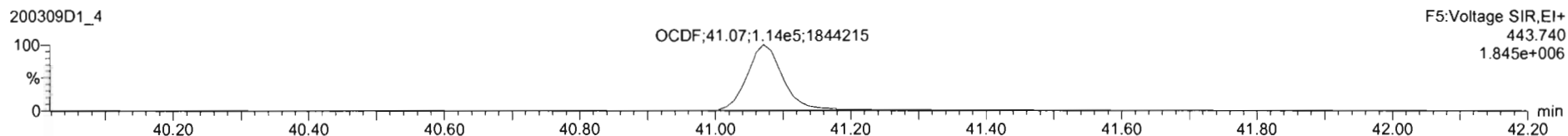
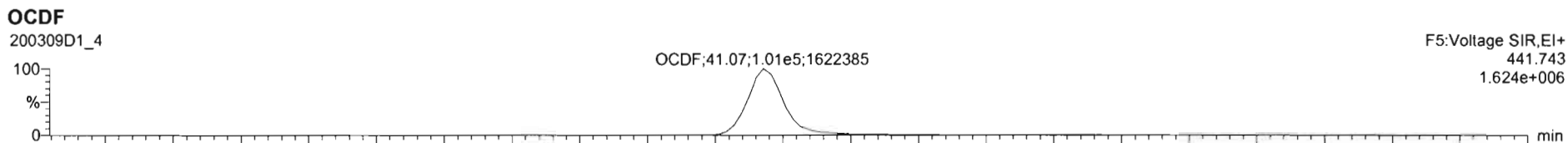
DPE4



Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

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Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_4, Date: 09-Mar-2020, Time: 14:43:39, ID: ST200309D1-4 1613 CS4 19L2306, Description: 1613 CS4 19L2306

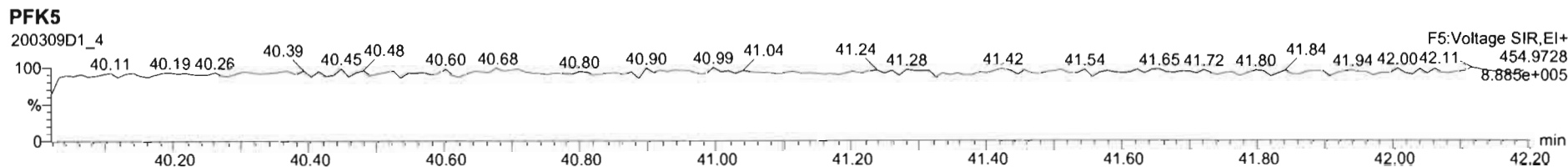
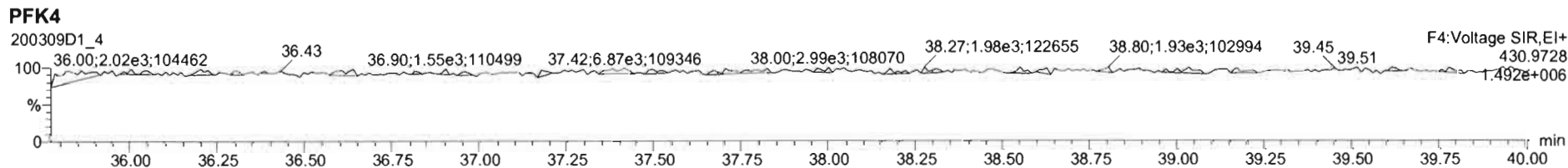
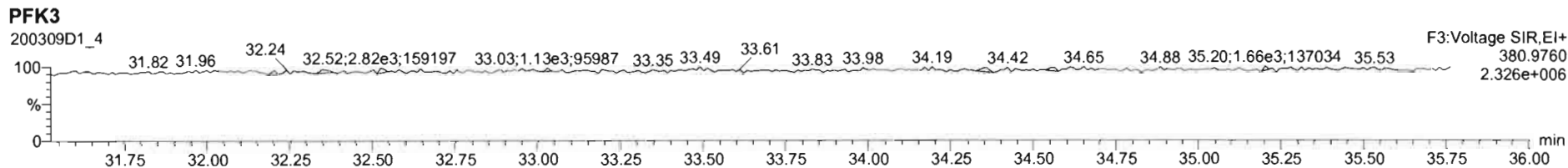
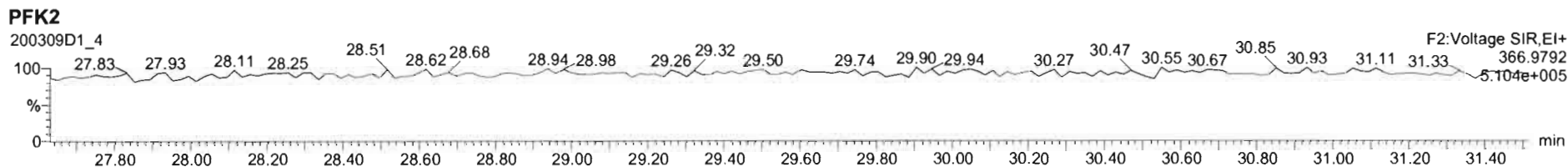
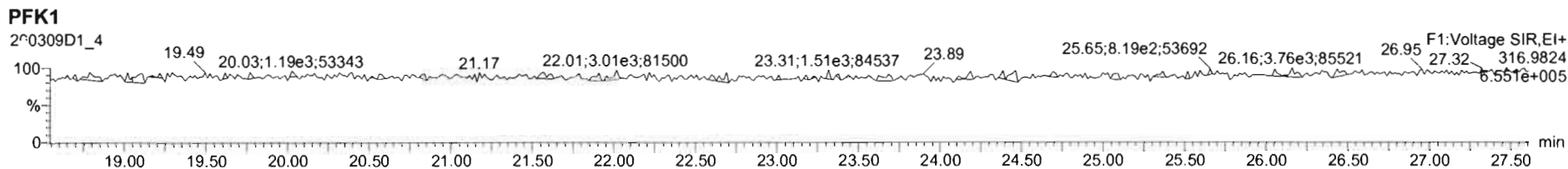




Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_4, Date: 09-Mar-2020, Time: 14:43:39, ID: ST200309D1-4 1613 CS4 19L2306, Description: 1613 CS4 19L2306



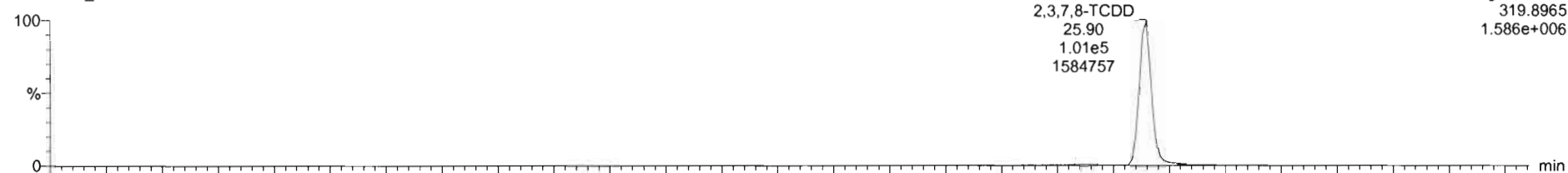
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

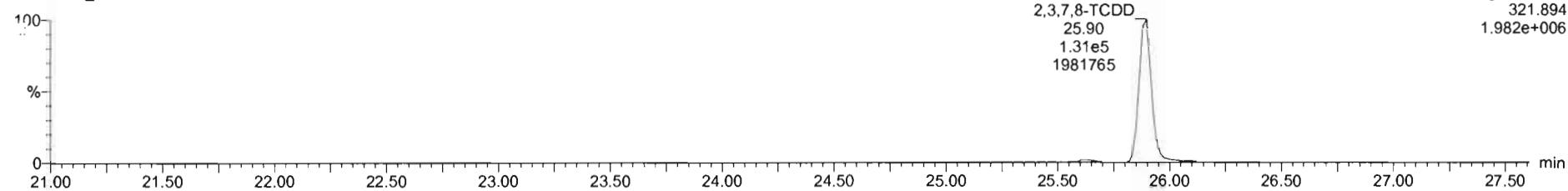
Name: 200309D1\_5, Date: 09-Mar-2020, Time: 15:28:28, ID: ST200309D1-5 1613 CS5 19L2307, Description: 1613 CS5 19L2307

**2,3,7,8-TCDD**

200309D1\_5

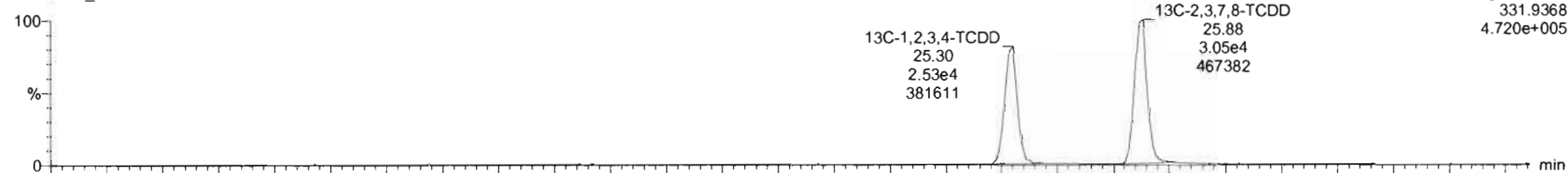


200309D1\_5

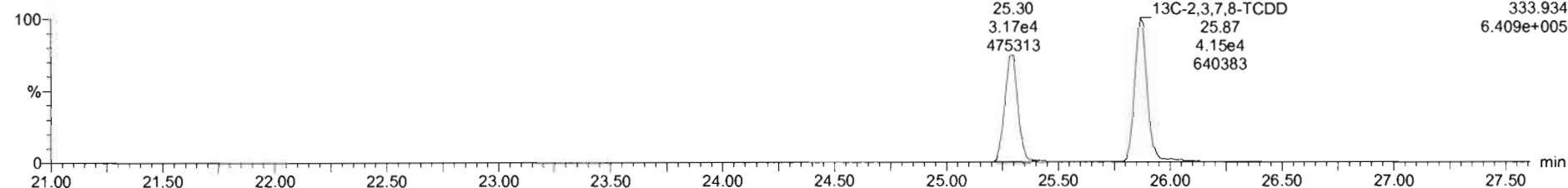


**13C-2,3,7,8-TCDD**

200309D1\_5



200309D1\_5



Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

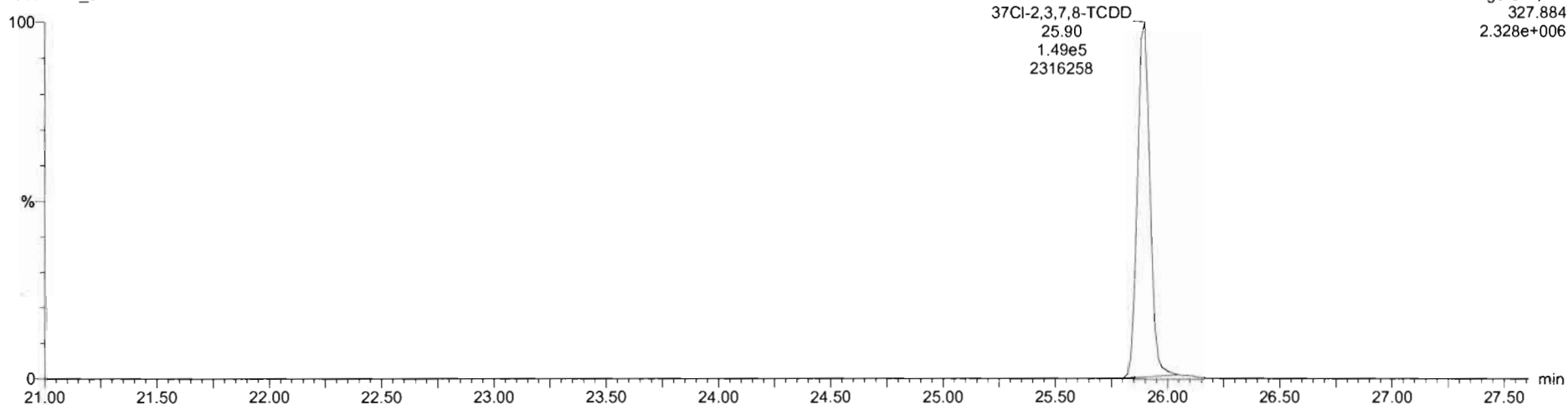
Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time

Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_5, Date: 09-Mar-2020, Time: 15:28:28, ID: ST200309D1-5 1613 CS5 19L2307, Description: 1613 CS5 19L2307

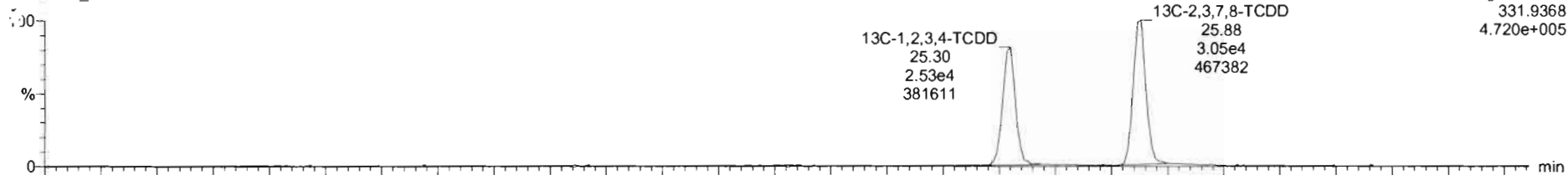
**37Cl-2,3,7,8-TCDD**

200309D1\_5

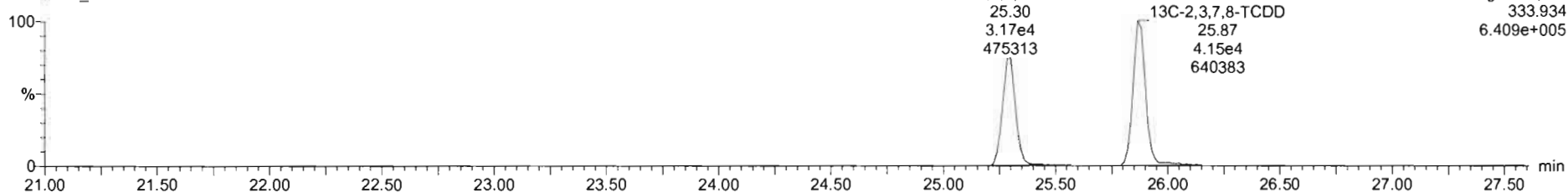


**13C-1,2,3,4-TCDD**

200309D1\_5



200309D1\_5



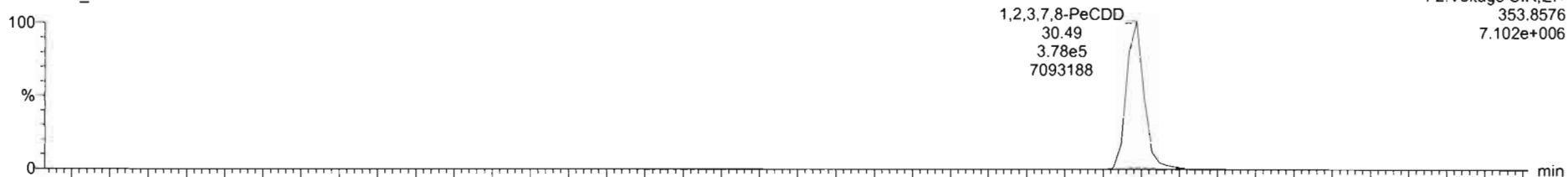
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

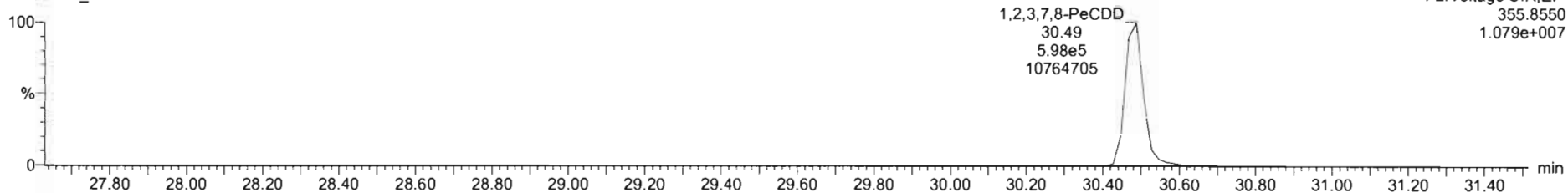
Name: 200309D1\_5, Date: 09-Mar-2020, Time: 15:28:28, ID: ST200309D1-5 1613 CS5 19L2307, Description: 1613 CS5 19L2307

**1,2,3,7,8-PeCDD**

200309D1\_5



200309D1\_5

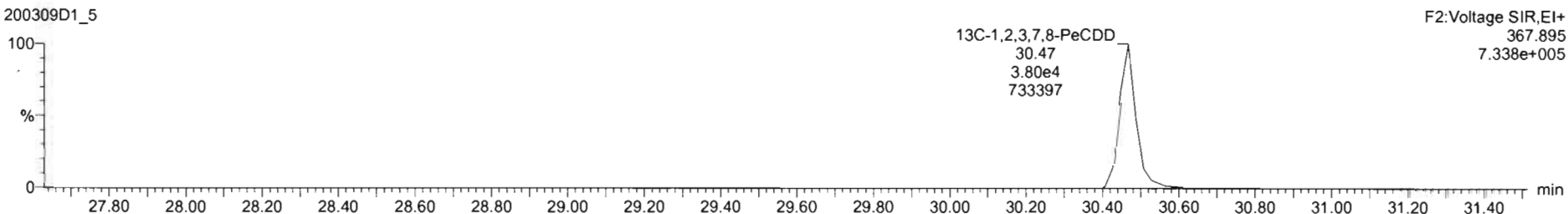


**13C-1,2,3,7,8-PeCDD**

200309D1\_5



200309D1\_5



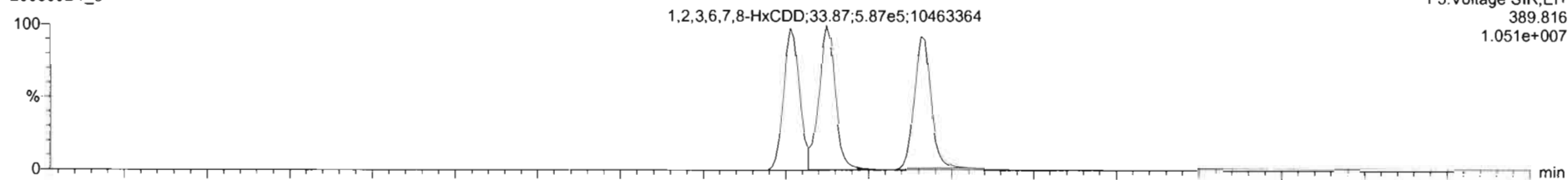
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

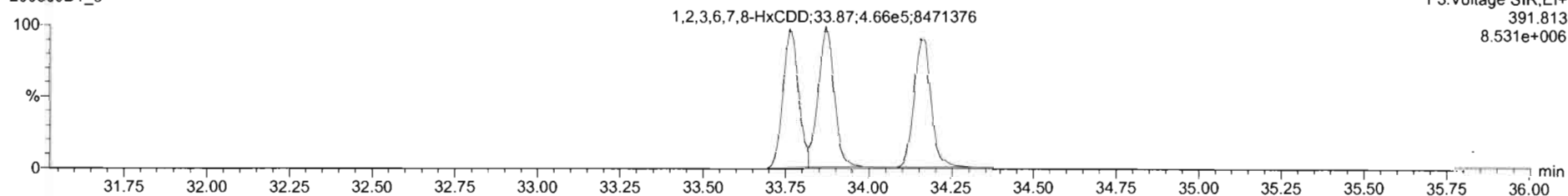
Name: 200309D1\_5, Date: 09-Mar-2020, Time: 15:28:28, ID: ST200309D1-5 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200309D1\_5

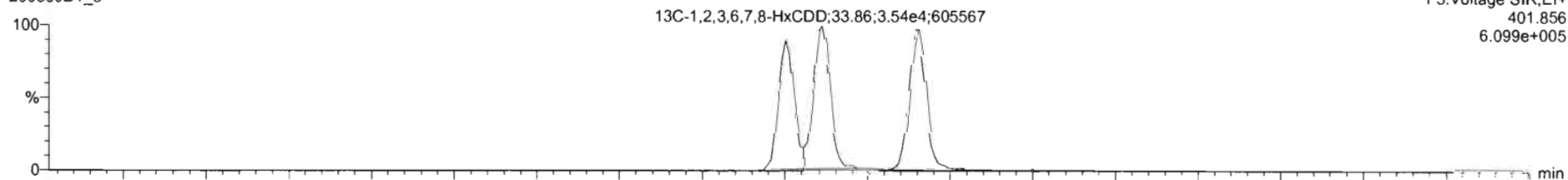


200309D1\_5

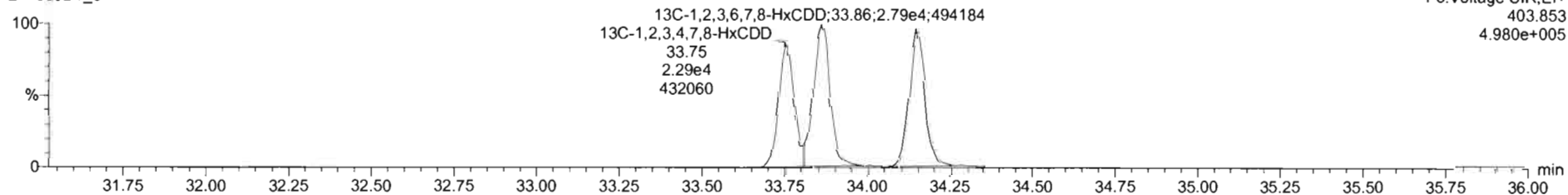


13C-1,2,3,4,7,8-HxCDD

200309D1\_5



200309D1\_5



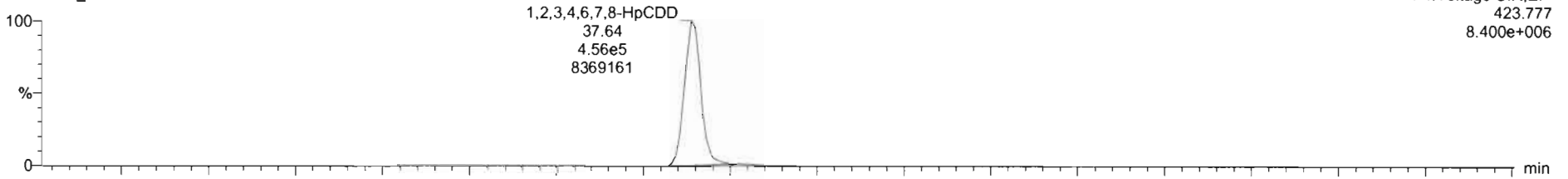
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_5, Date: 09-Mar-2020, Time: 15:28:28, ID: ST200309D1-5 1613 CS5 19L2307, Description: 1613 CS5 19L2307

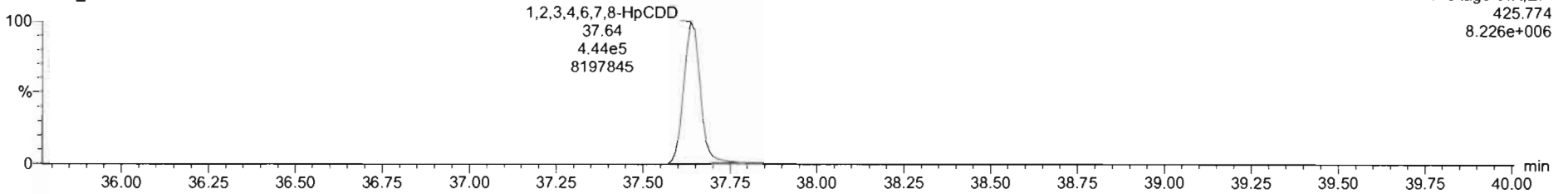
1,2,3,4,6,7,8-HpCDD

200309D1\_5



F4:Voltage SIR,EI+  
423.777  
8.400e+006

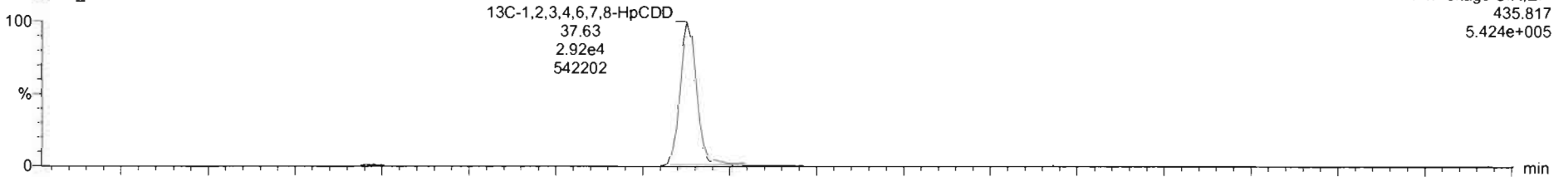
200309D1\_5



F4:Voltage SIR,EI+  
425.774  
8.226e+006

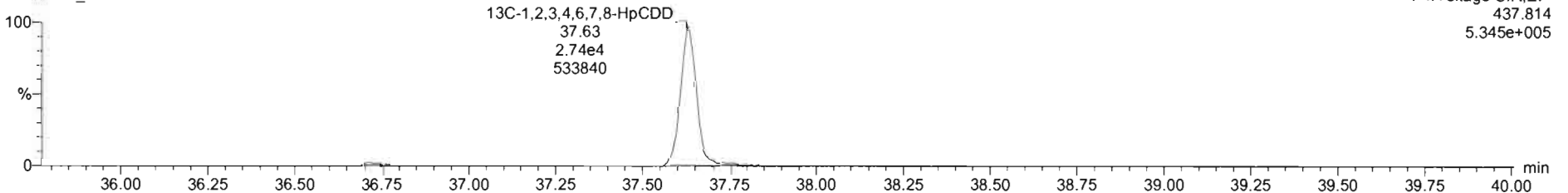
13C-1,2,3,4,6,7,8-HpCDD

200309D1\_5



F4:Voltage SIR,EI+  
435.817  
5.424e+005

200309D1\_5

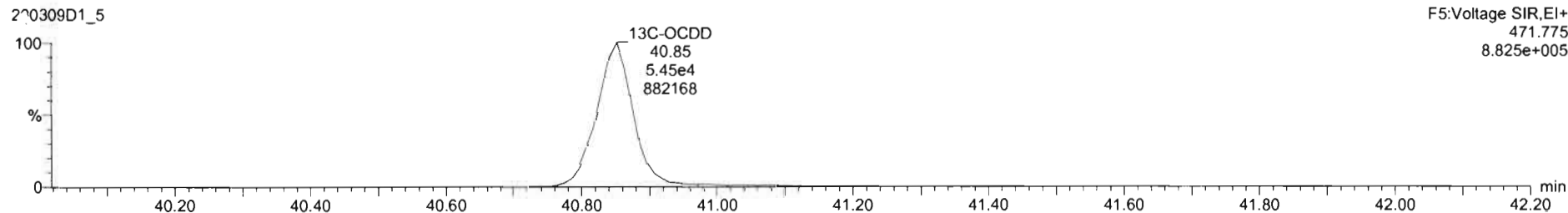
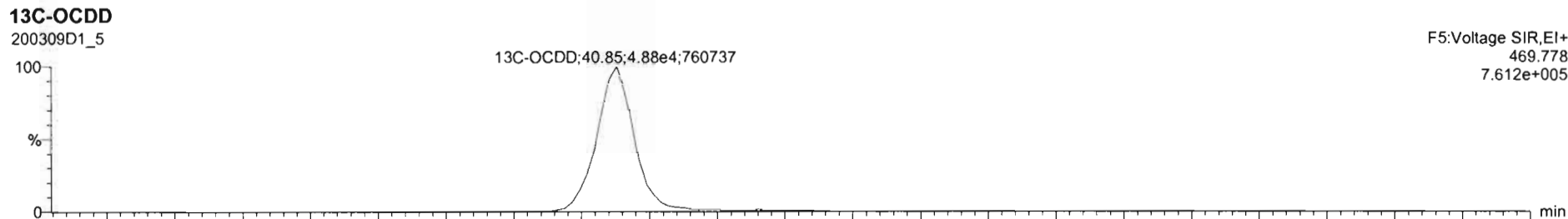
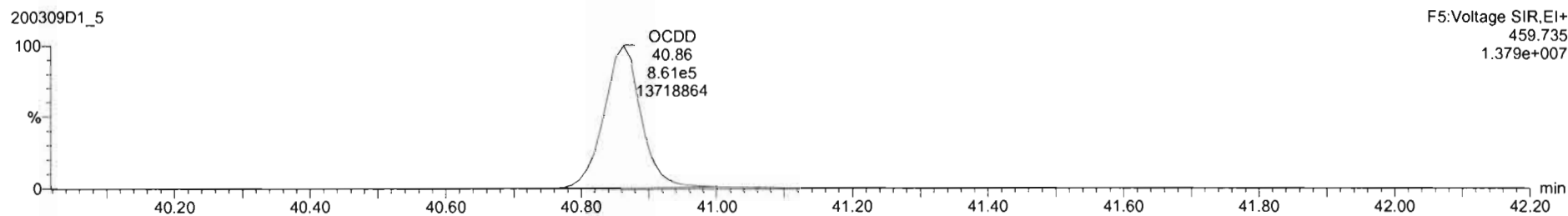
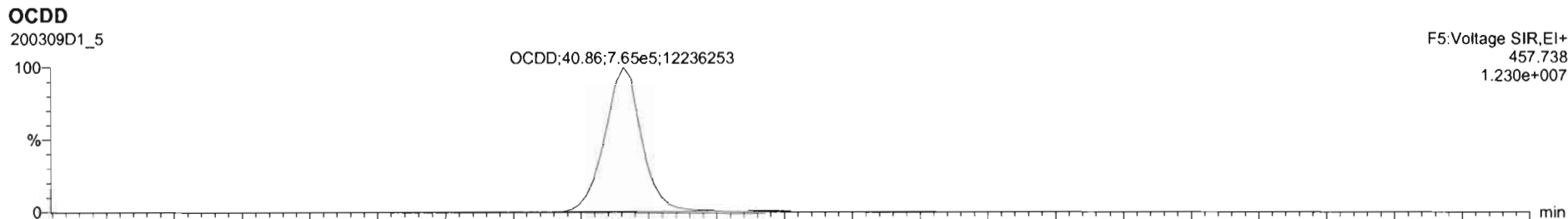


F4:Voltage SIR,EI+  
437.814  
5.345e+005

Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_5, Date: 09-Mar-2020, Time: 15:28:28, ID: ST200309D1-5 1613 CS5 19L2307, Description: 1613 CS5 19L2307



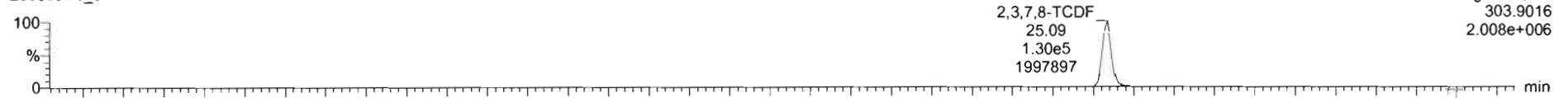
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

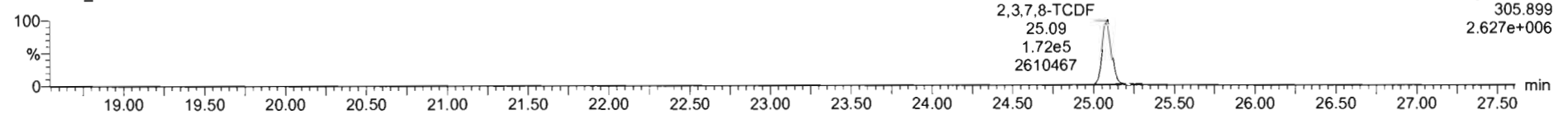
Name: 200309D1\_5, Date: 09-Mar-2020, Time: 15:28:28, ID: ST200309D1-5 1613 CS5 19L2307, Description: 1613 CS5 19L2307

**2,3,7,8-TCDF**

200309D1\_5

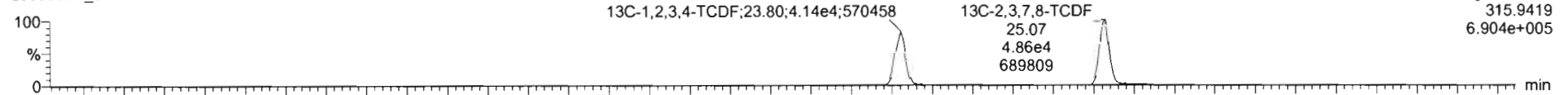


200309D1\_5

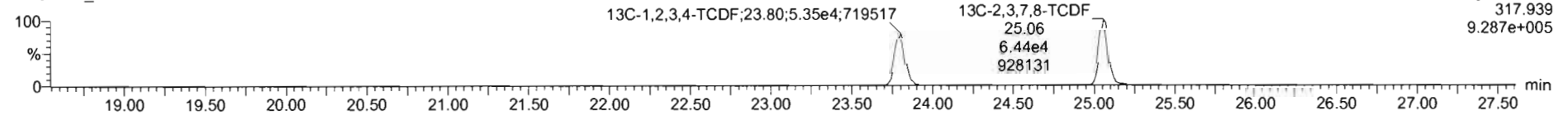


**13C-2,3,7,8-TCDF**

200309D1\_5

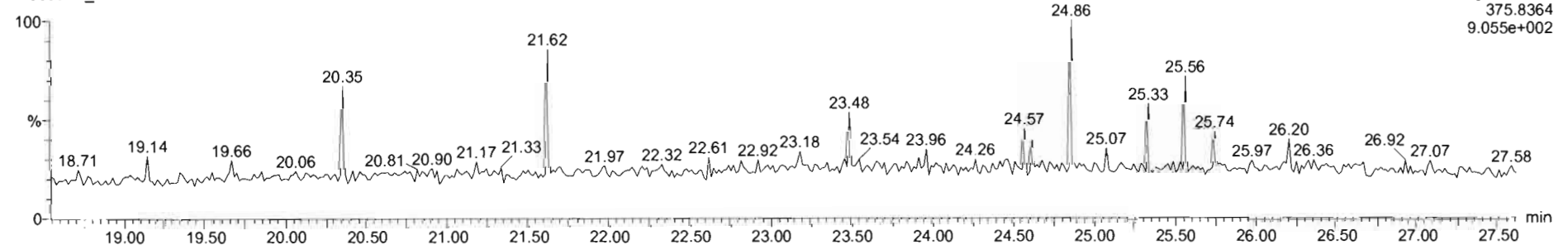


200309D1\_5



**DPE1**

200309D1\_5





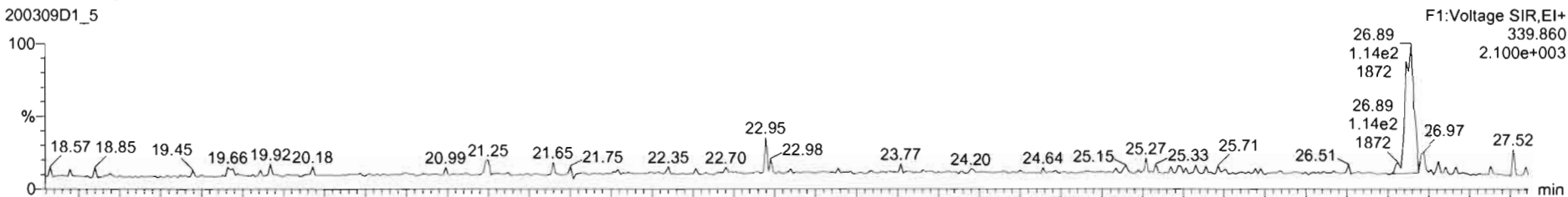
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

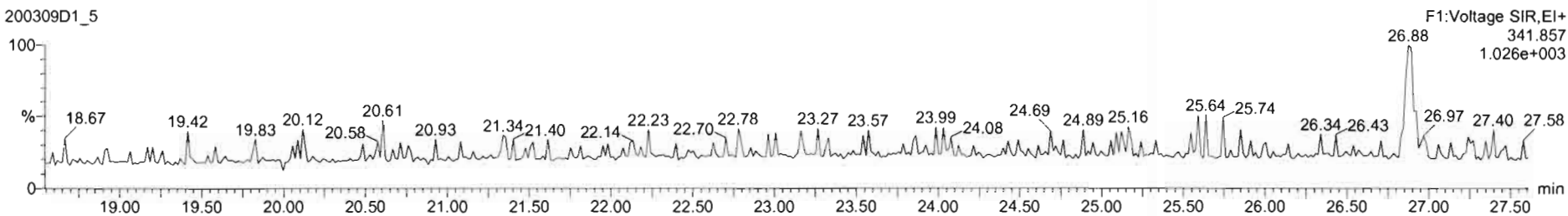
Name: 200309D1\_5, Date: 09-Mar-2020, Time: 15:28:28, ID: ST200309D1-5 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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200309D1\_5

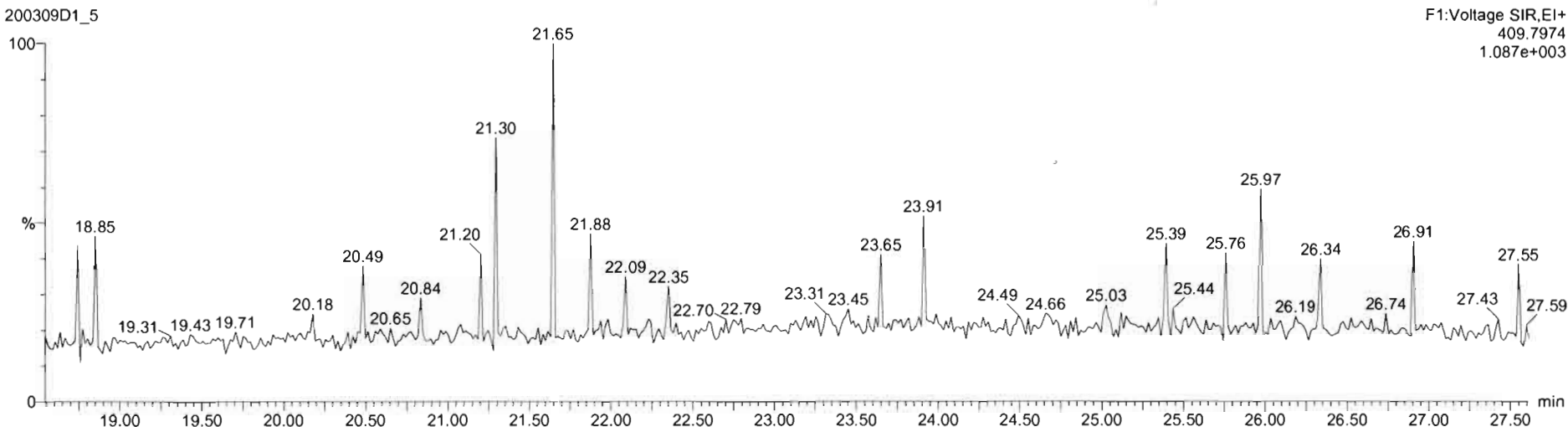


200309D1\_5



DPE6

200309D1\_5



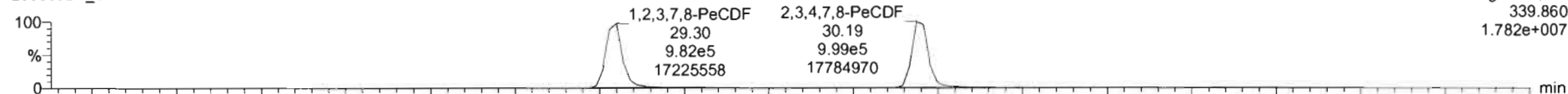
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

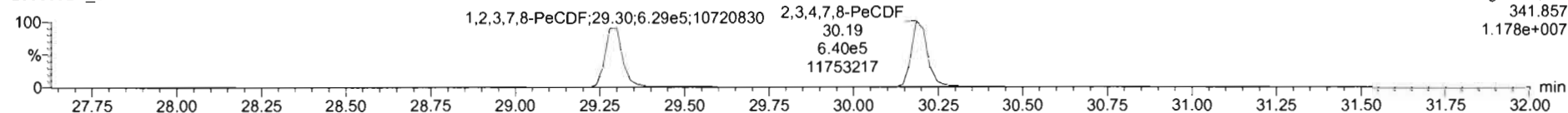
Name: 200309D1\_5, Date: 09-Mar-2020, Time: 15:28:28, ID: ST200309D1-5 1613 CS5 19L2307, Description: 1613 CS5 19L2307

**1,2,3,7,8-PeCDF**

200309D1\_5

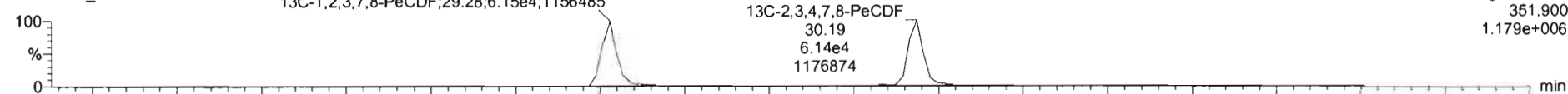


200309D1\_5

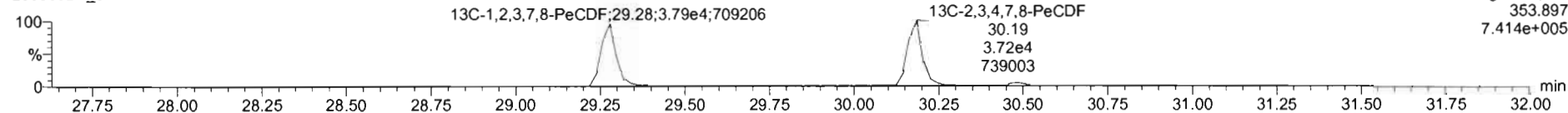


**13C-1,2,3,7,8-PeCDF**

200309D1\_5

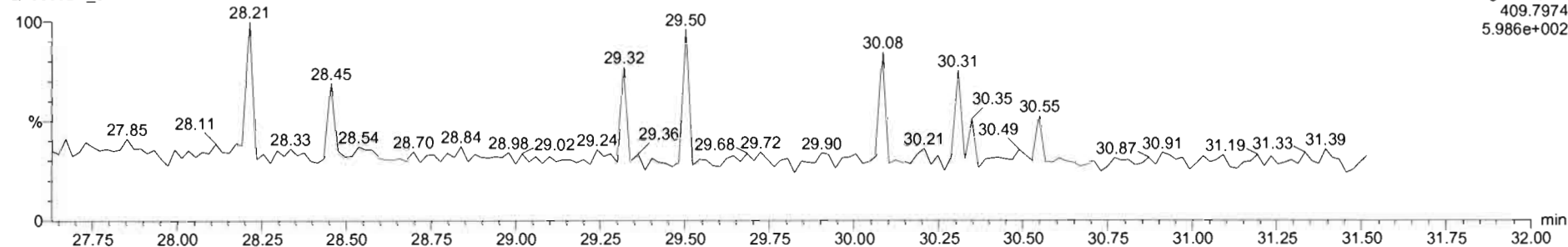


200309D1\_5



**DPE2**

200309D1\_5



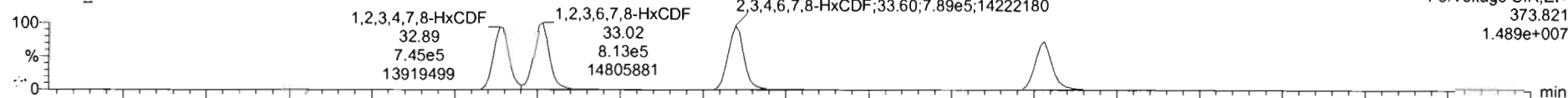
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

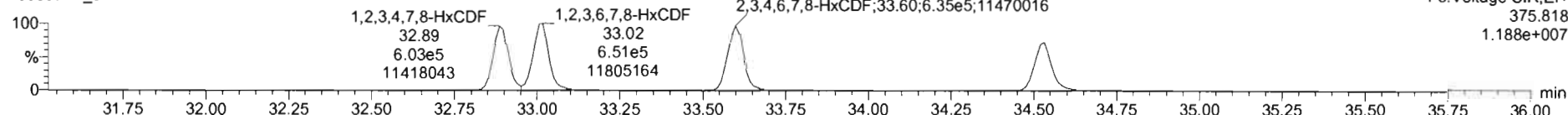
Name: 200309D1\_5, Date: 09-Mar-2020, Time: 15:28:28, ID: ST200309D1-5 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200309D1\_5

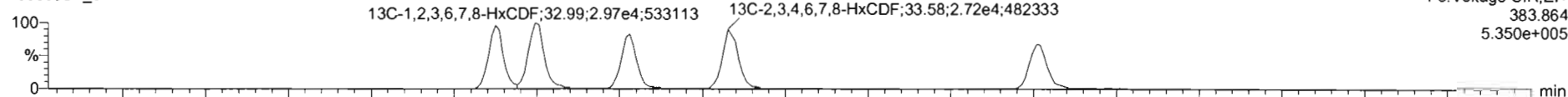


200309D1\_5

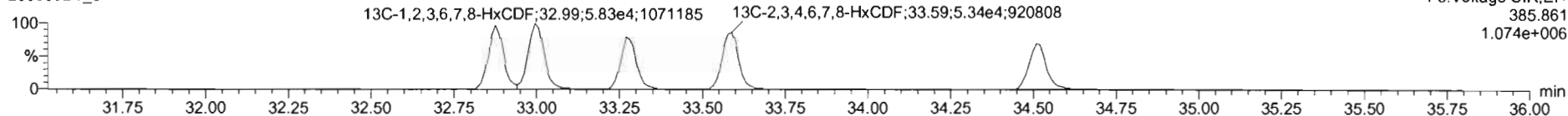


**13C-1,2,3,4,7,8-HxCDF**

200309D1\_5

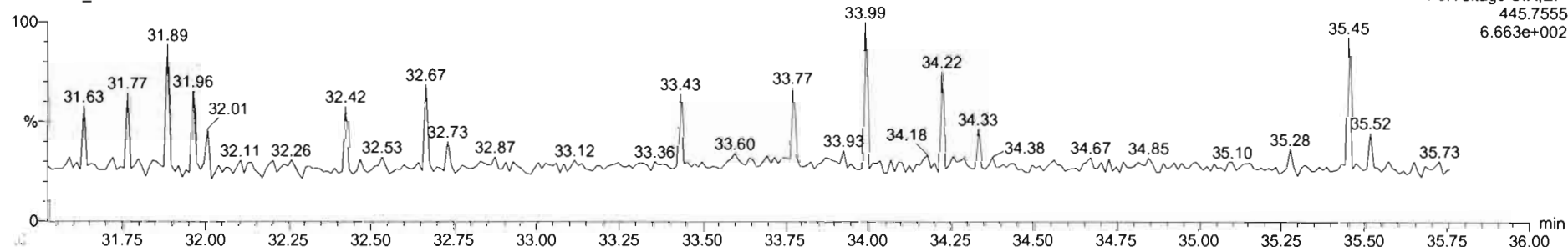


200309D1\_5



**DPE3**

200309D1\_5

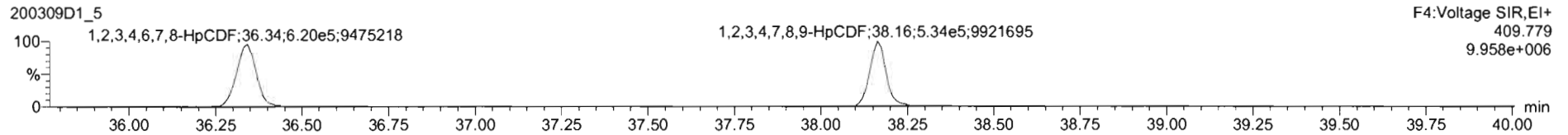
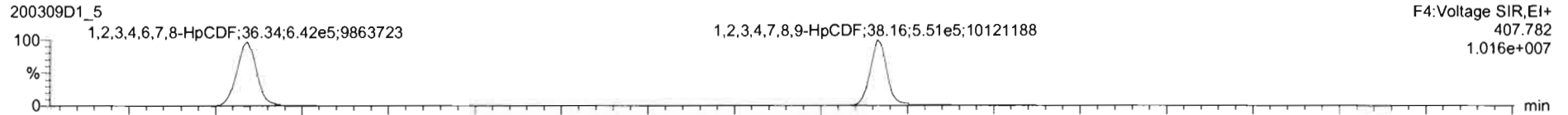


Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

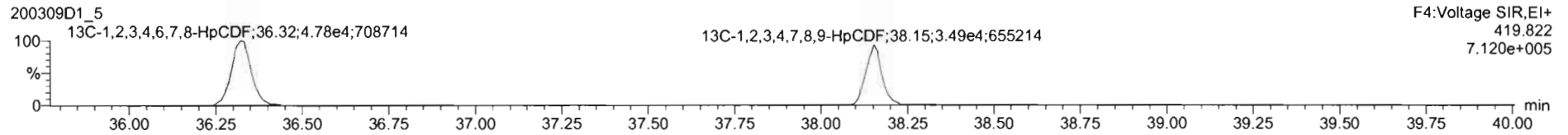
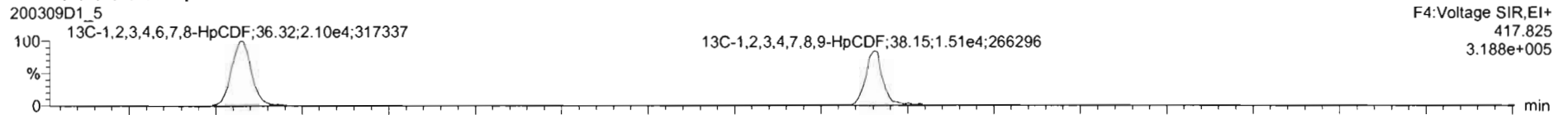
Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_5, Date: 09-Mar-2020, Time: 15:28:28, ID: ST200309D1-5 1613 CS5 19L2307, Description: 1613 CS5 19L2307

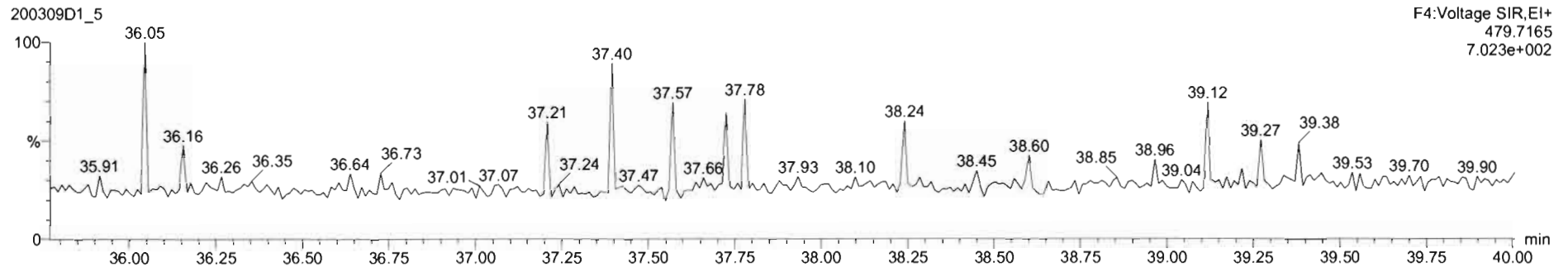
**1,2,3,4,6,7,8-HpCDF**



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



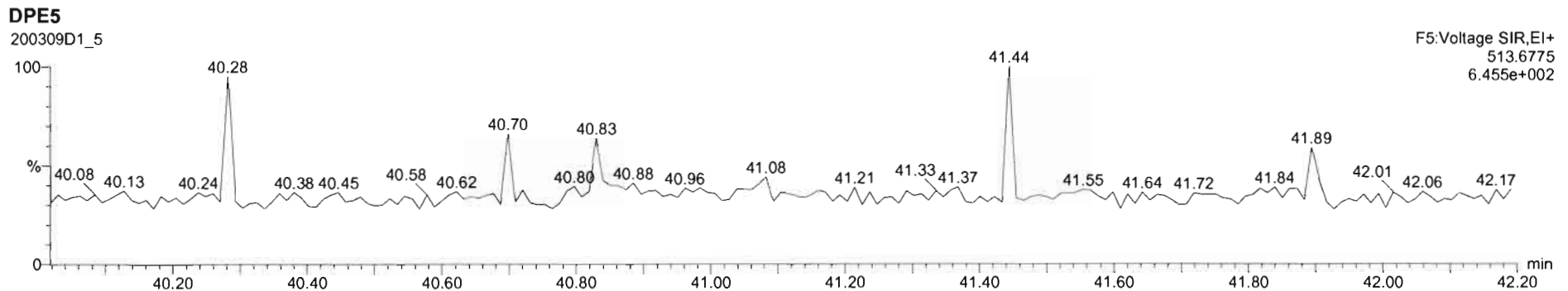
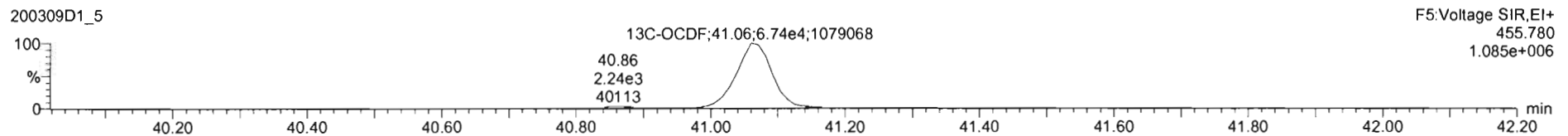
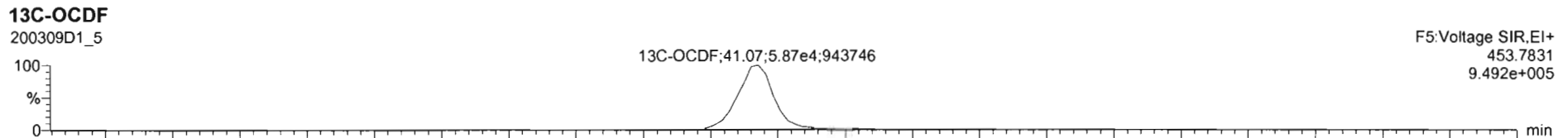
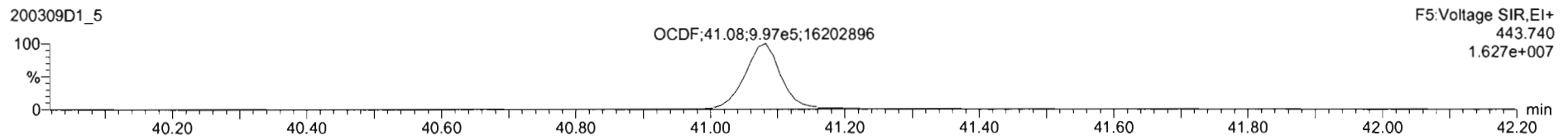
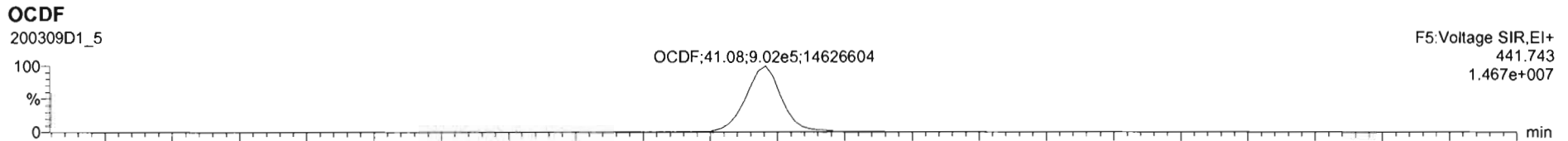
**DPE4**



Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_5, Date: 09-Mar-2020, Time: 15:28:28, ID: ST200309D1-5 1613 CS5 19L2307, Description: 1613 CS5 19L2307

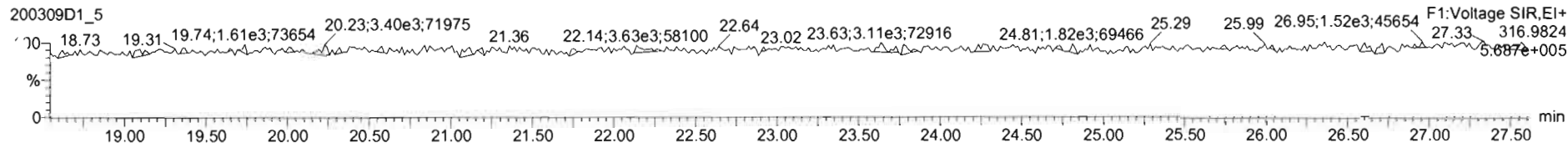


Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

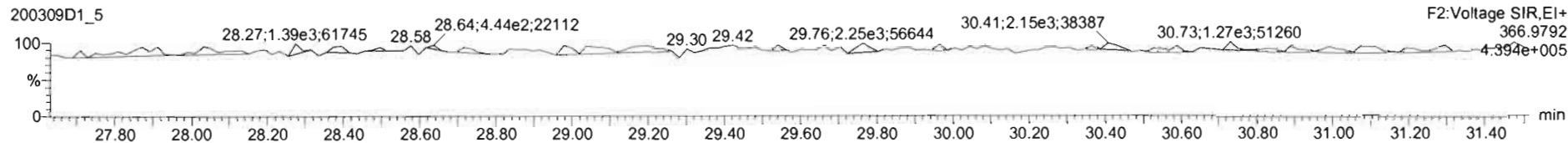
Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_5, Date: 09-Mar-2020, Time: 15:28:28, ID: ST200309D1-5 1613 CS5 19L2307, Description: 1613 CS5 19L2307

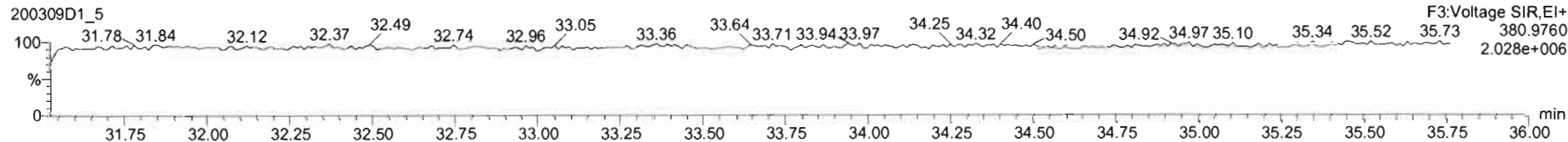
PFK1



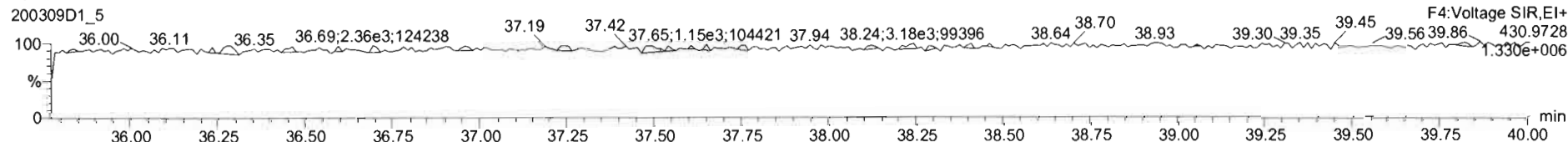
PFK2



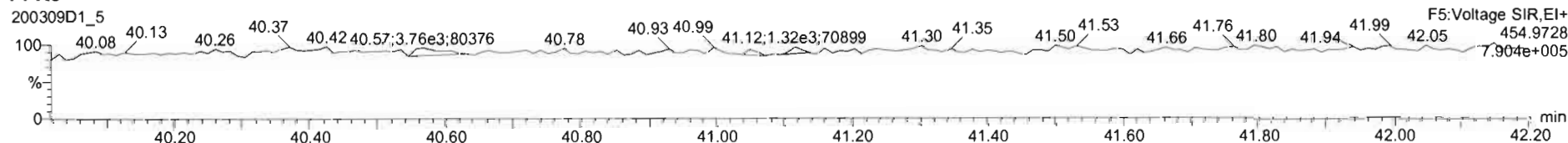
PFK3



PFK4



PFK5



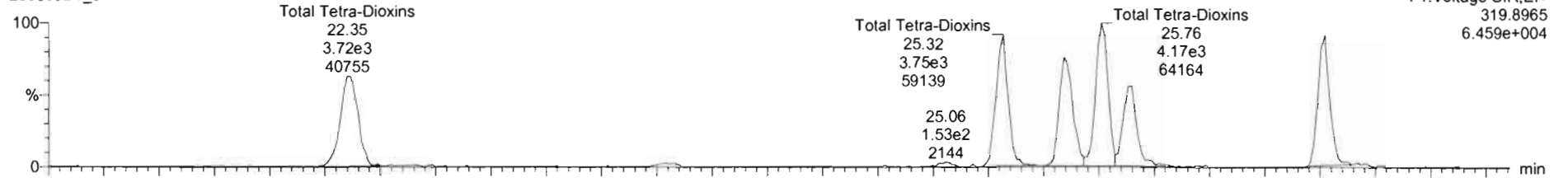
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

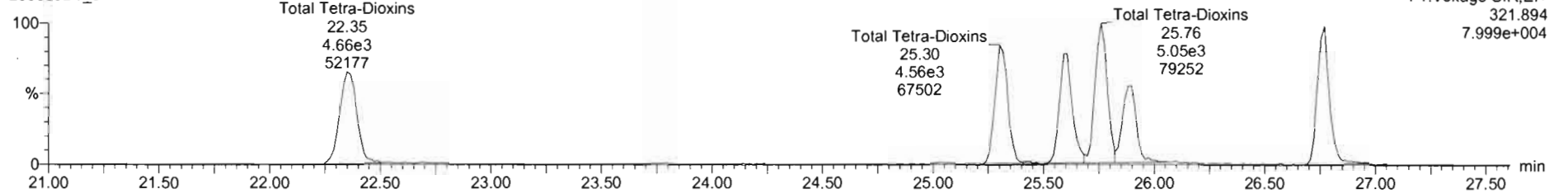
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**2,3,7,8-TCDD**

200309D1\_6

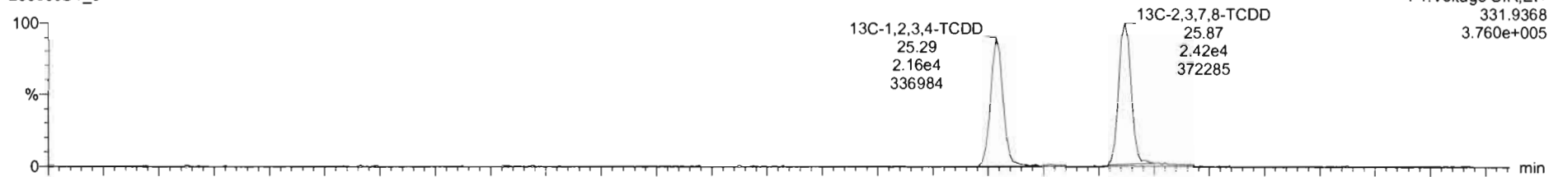


200309D1\_6

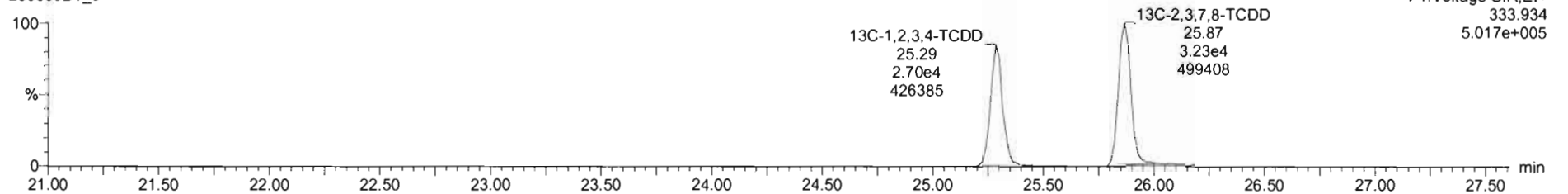


**13C-2,3,7,8-TCDD**

200309D1\_6



200309D1\_6



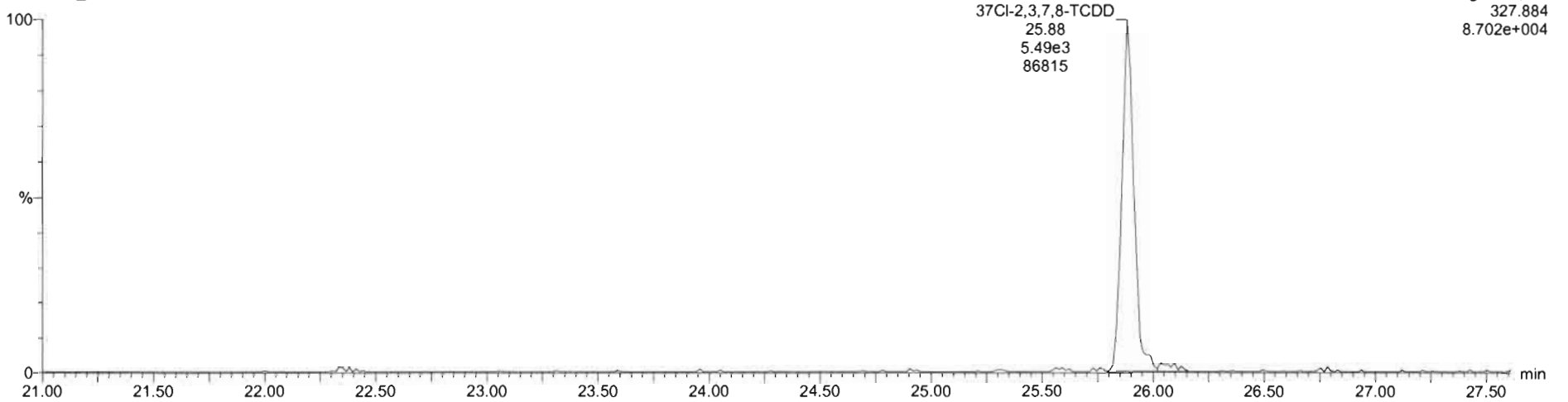
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_6, Date: 09-Mar-2020, Time: 16:13:17, ID: ST200309D1-6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

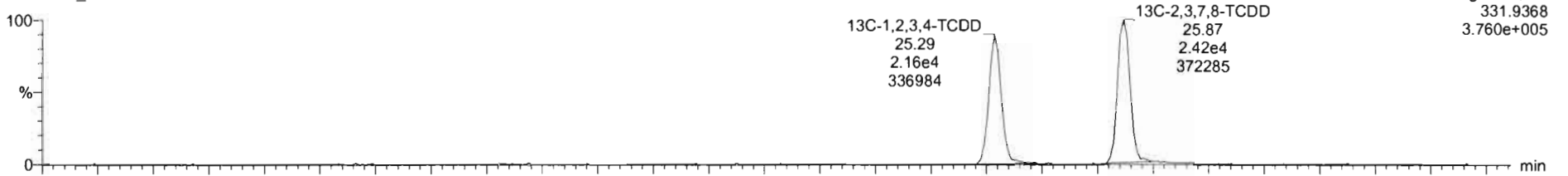
**37Cl-2,3,7,8-TCDD**

200309D1\_6

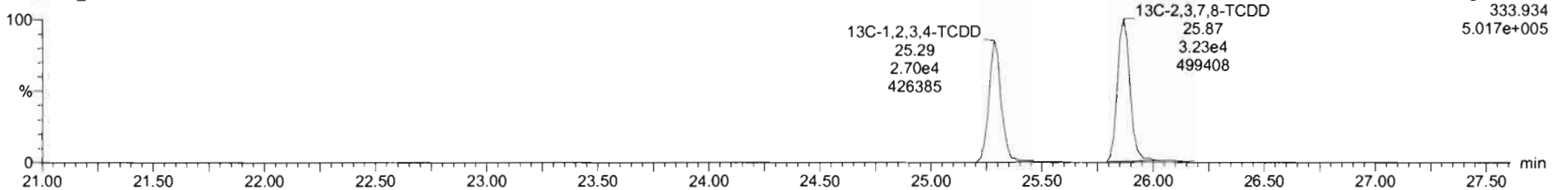


**13C-1,2,3,4-TCDD**

200309D1\_6



200309D1\_6



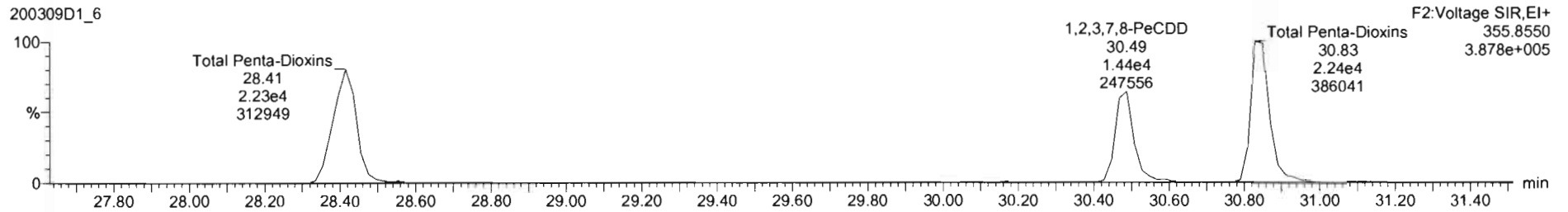
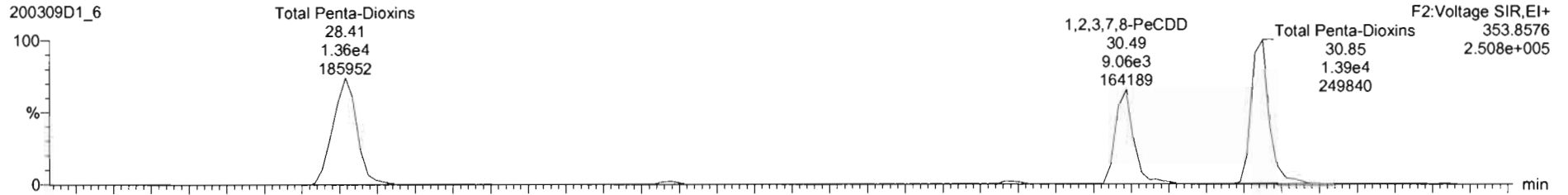


Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

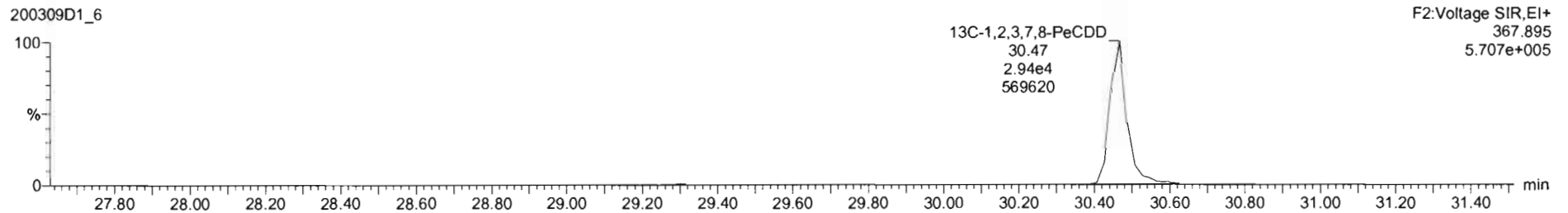
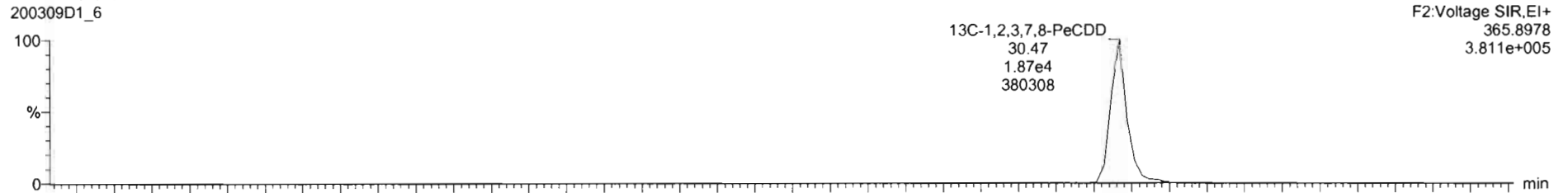
Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_6, Date: 09-Mar-2020, Time: 16:13:17, ID: ST200309D1-6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD



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



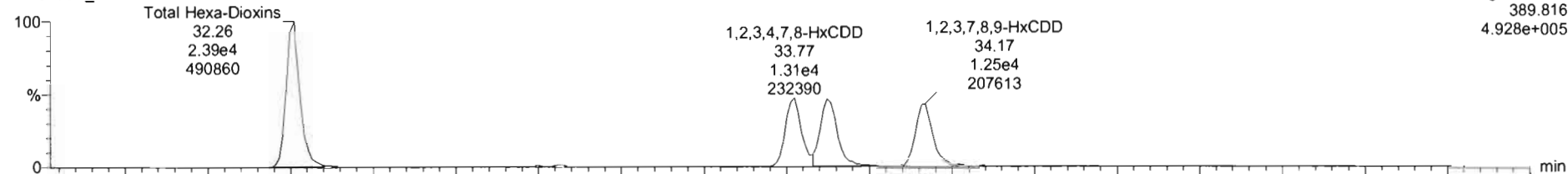
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Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

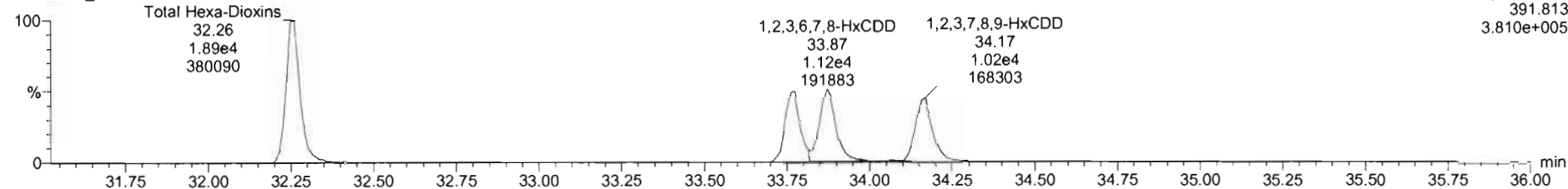
Name: 200309D1\_6, Date: 09-Mar-2020, Time: 16:13:17, ID: ST200309D1-6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200309D1\_6

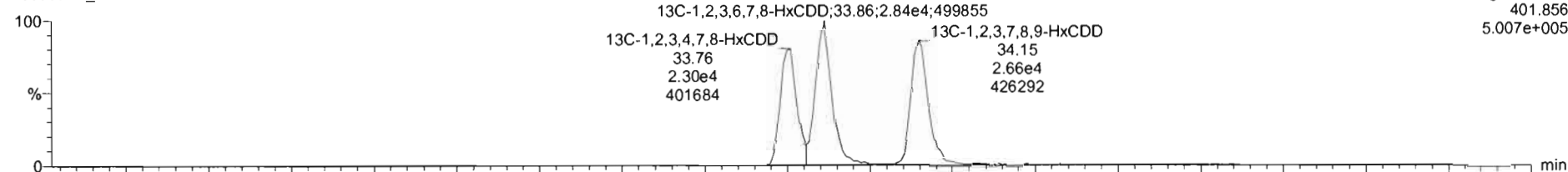


200309D1\_6

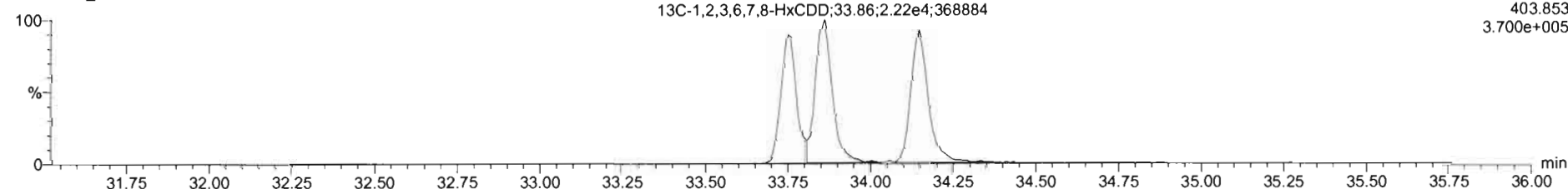


13C-1,2,3,4,7,8-HxCDD

200309D1\_6



200309D1\_6



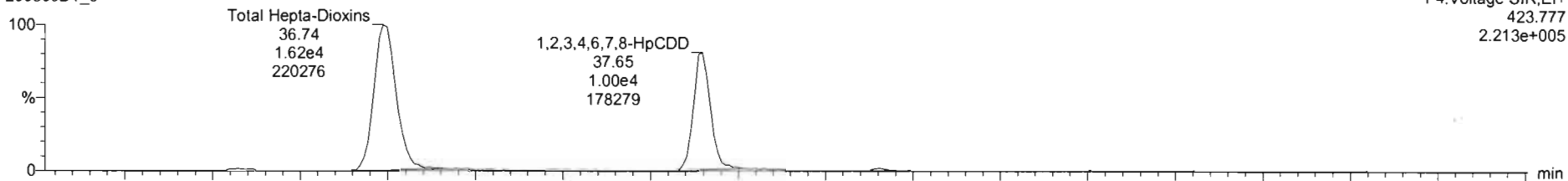
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Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

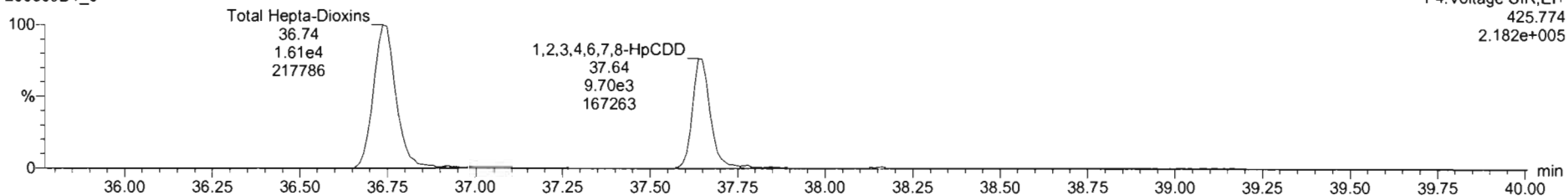
Name: 200309D1\_6, Date: 09-Mar-2020, Time: 16:13:17, ID: ST200309D1-6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200309D1\_6

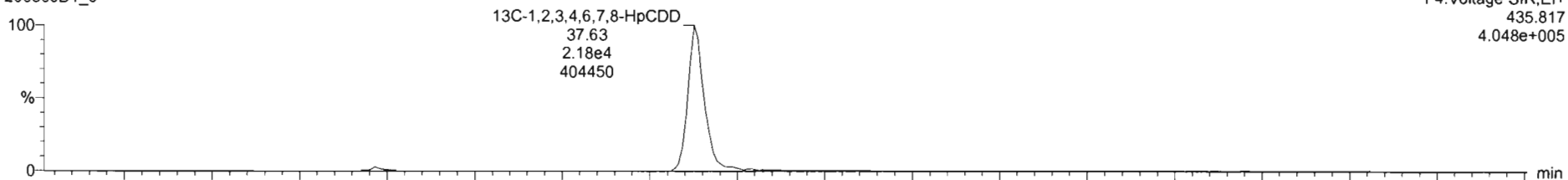


200309D1\_6

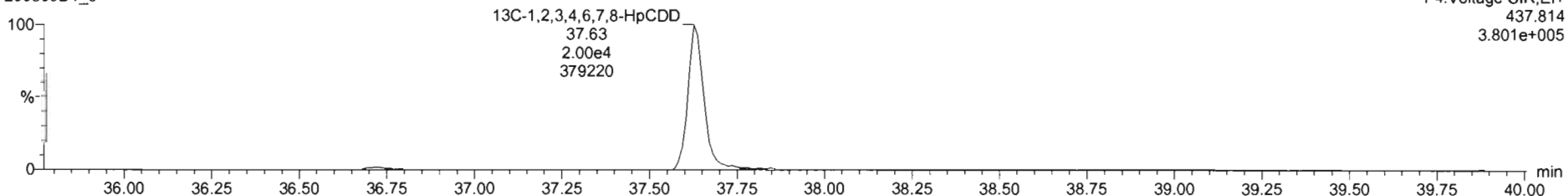


13C-1,2,3,4,6,7,8-HpCDD

200309D1\_6



200309D1\_6



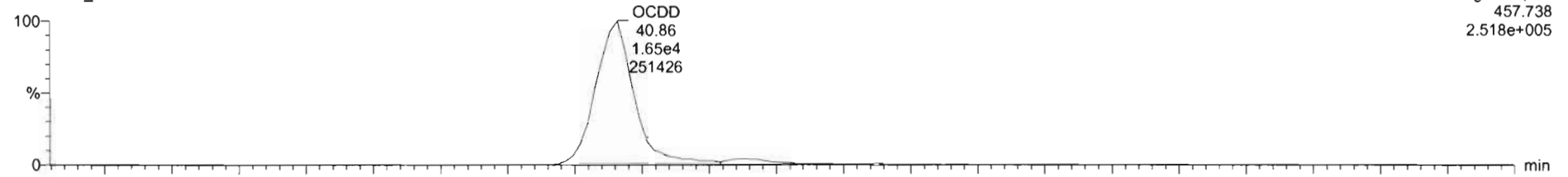
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_6, Date: 09-Mar-2020, Time: 16:13:17, ID: ST200309D1-6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

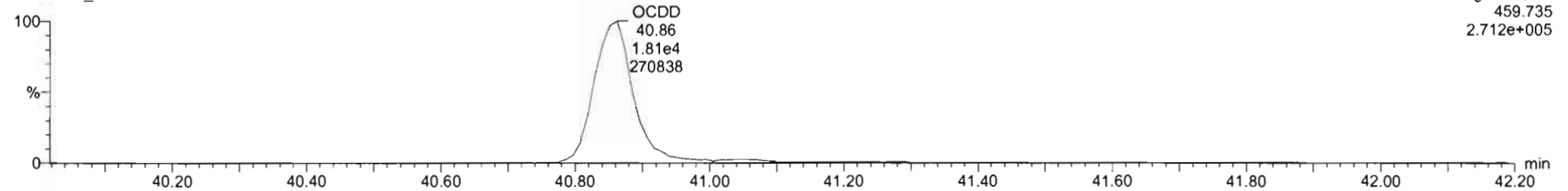
**OCDD**

200309D1\_6



F5:Voltage SIR,EI+  
457.738  
2.518e+005

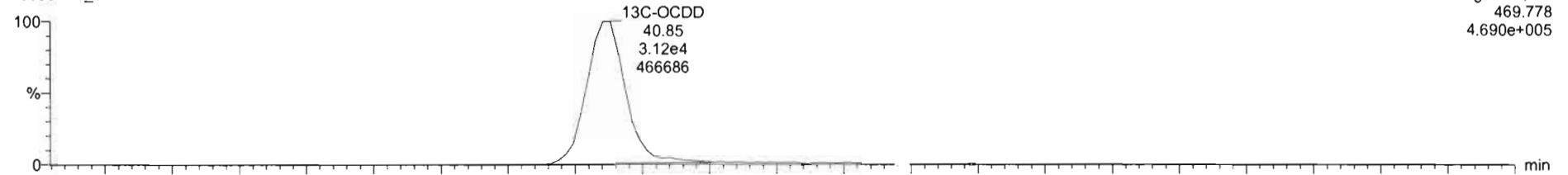
200309D1\_6



F5:Voltage SIR,EI+  
459.735  
2.712e+005

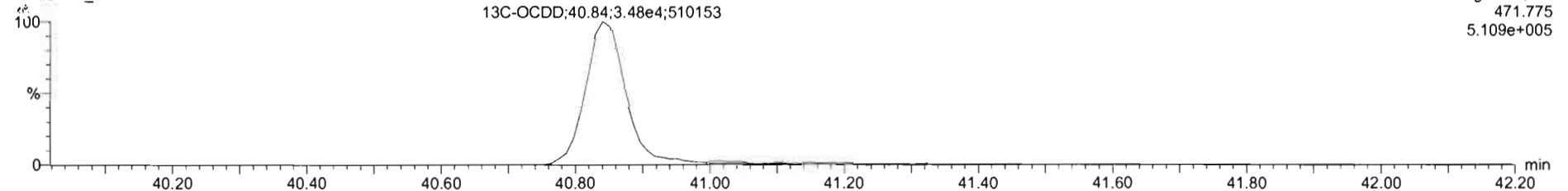
**13C-OCDD**

200309D1\_6



F5:Voltage SIR,EI+  
469.778  
4.690e+005

200309D1\_6



F5:Voltage SIR,EI+  
471.775  
5.109e+005

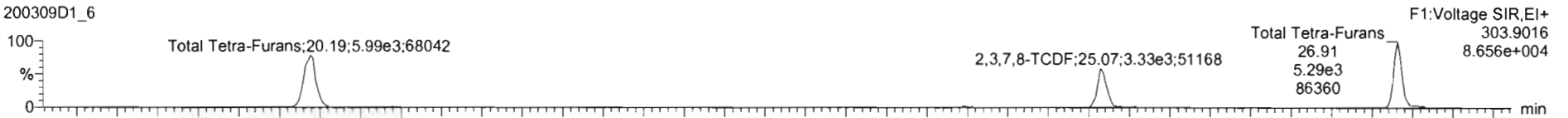
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

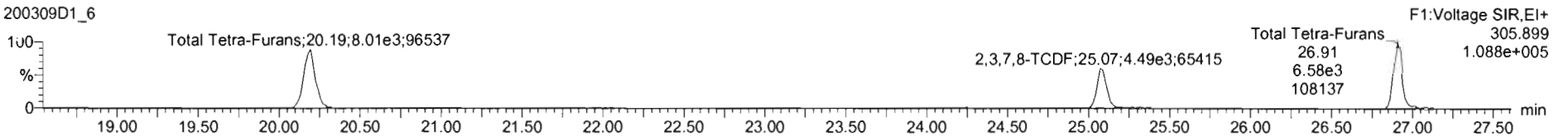
Name: 200309D1\_6, Date: 09-Mar-2020, Time: 16:13:17, ID: ST200309D1-6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

**2,3,7,8-TCDF**

200309D1\_6

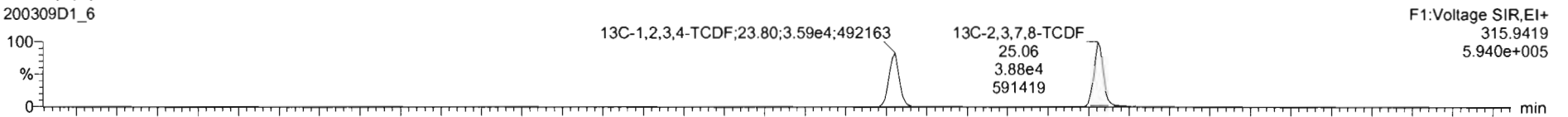


200309D1\_6

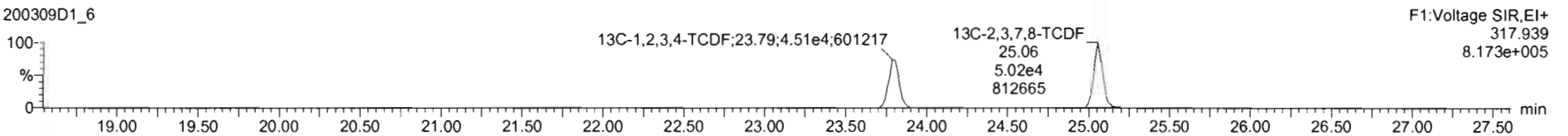


**13C-2,3,7,8-TCDF**

200309D1\_6

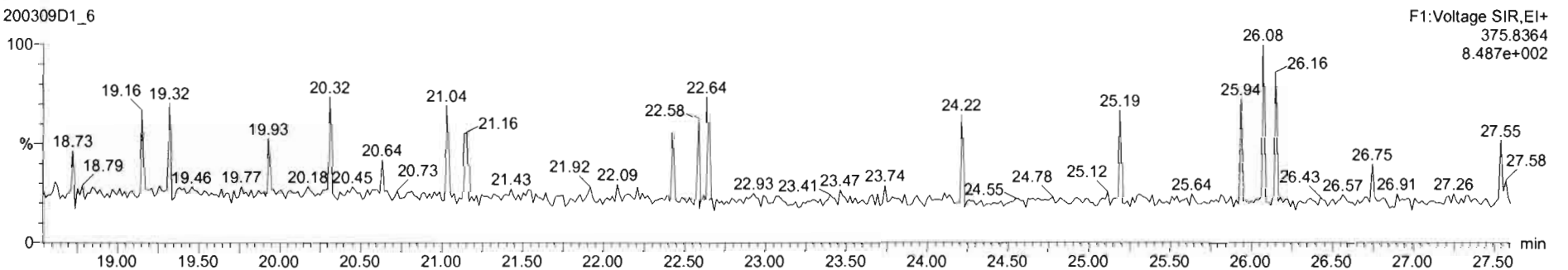


200309D1\_6



**DPE1**

200309D1\_6



Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

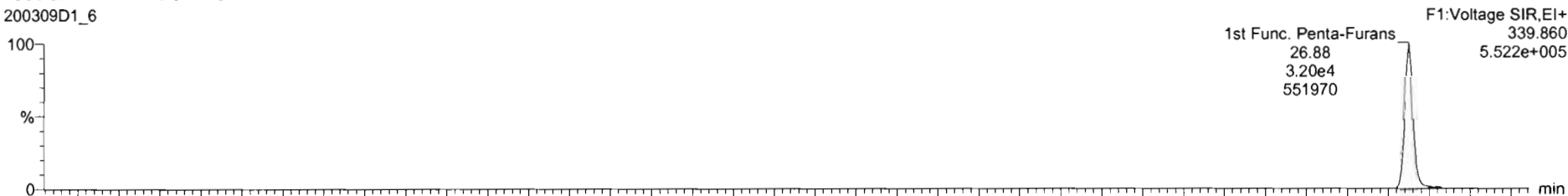
Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time

Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

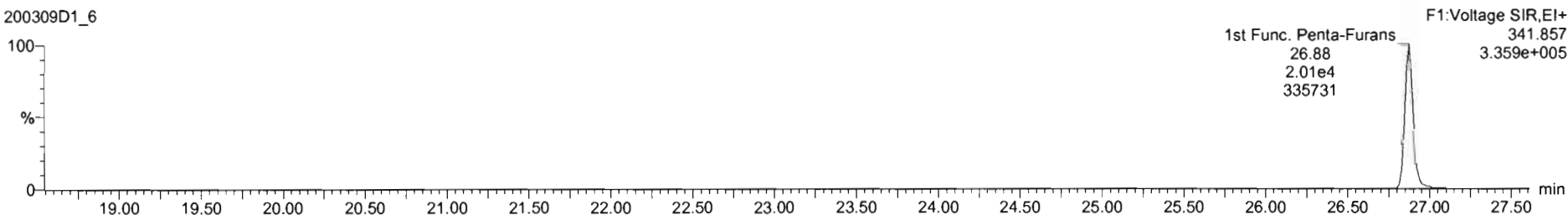
Name: 200309D1\_6, Date: 09-Mar-2020, Time: 16:13:17, ID: ST200309D1-6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200309D1\_6

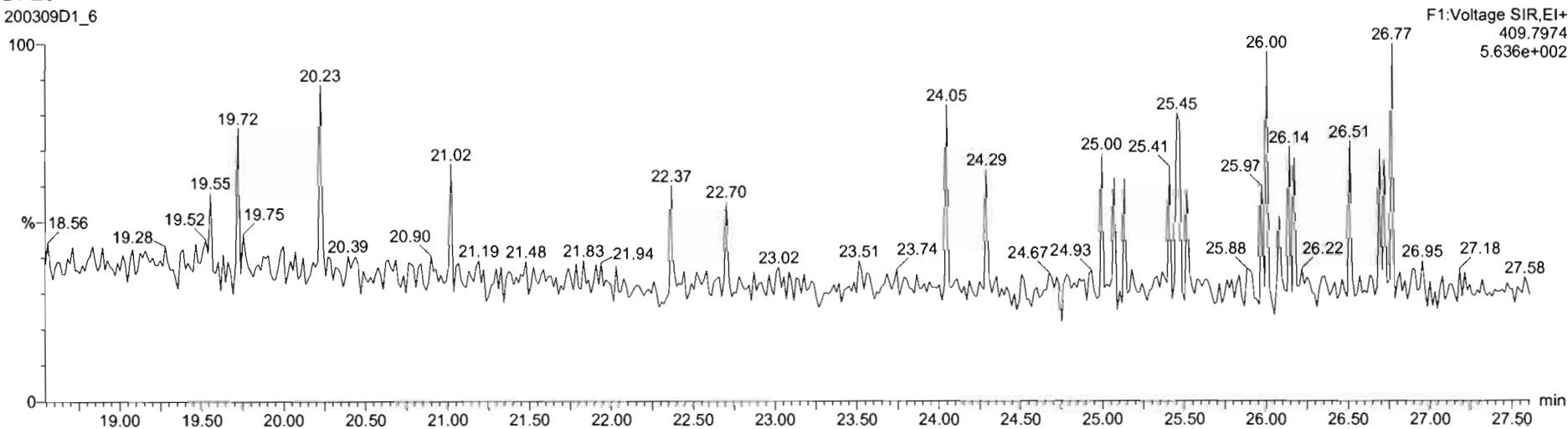


200309D1\_6



DPE6

200309D1\_6



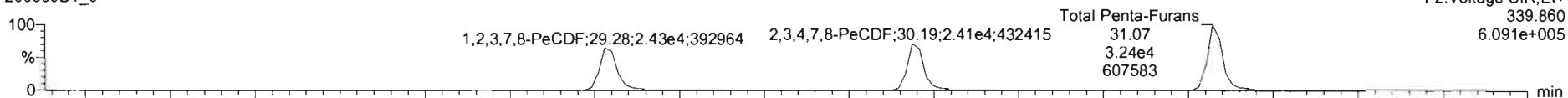
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_6, Date: 09-Mar-2020, Time: 16:13:17, ID: ST200309D1-6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

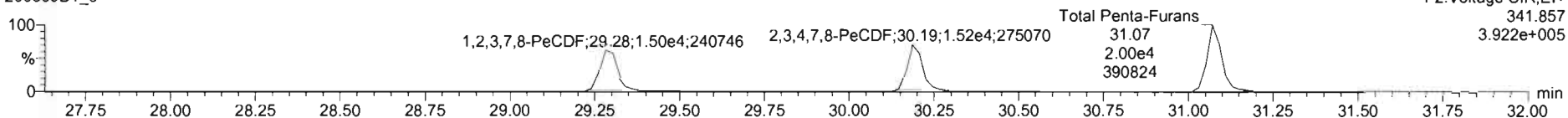
**1,2,3,7,8-PeCDF**

200309D1\_6



F2:Voltage SIR,EI+  
339.860  
6.091e+005

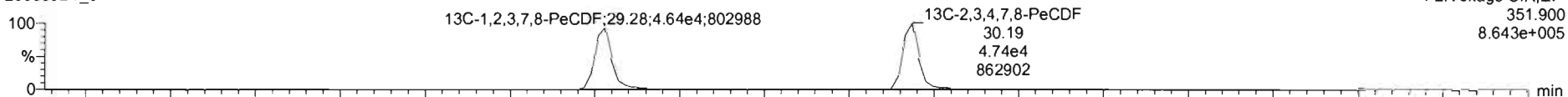
200309D1\_6



F2:Voltage SIR,EI+  
341.857  
3.922e+005

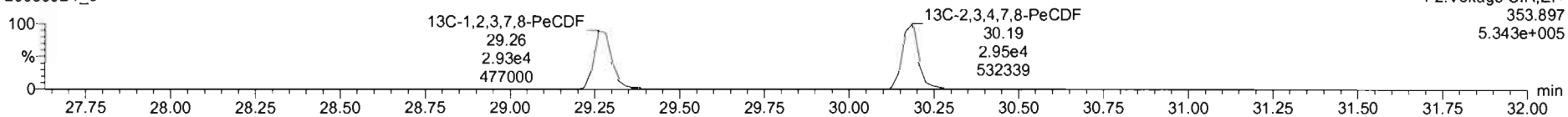
**13C-1,2,3,7,8-PeCDF**

200309D1\_6



F2:Voltage SIR,EI+  
351.900  
8.643e+005

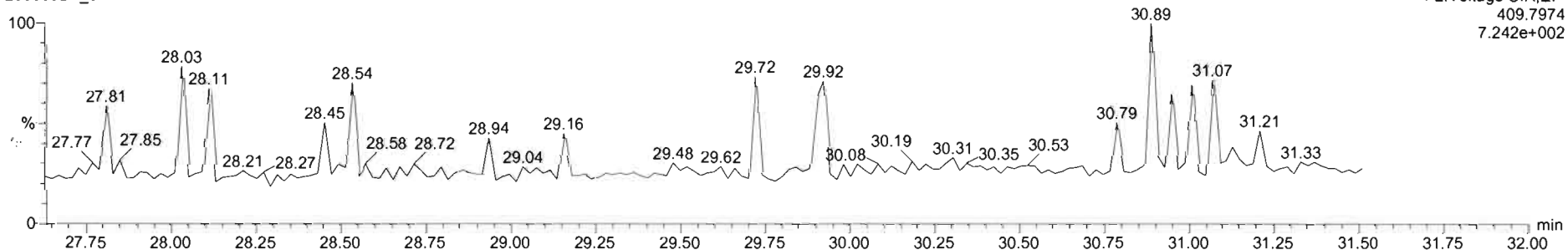
200309D1\_6



F2:Voltage SIR,EI+  
353.897  
5.343e+005

**DPE2**

200309D1\_6



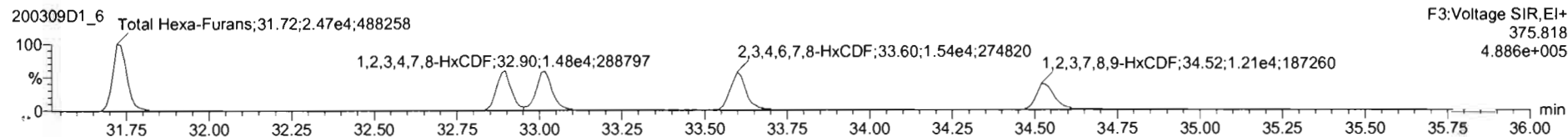
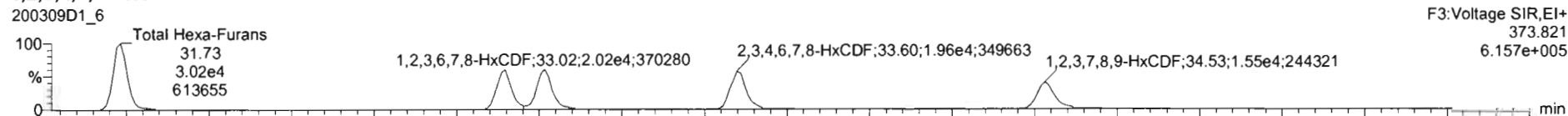
F2:Voltage SIR,EI+  
409.7974  
7.242e+002

Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

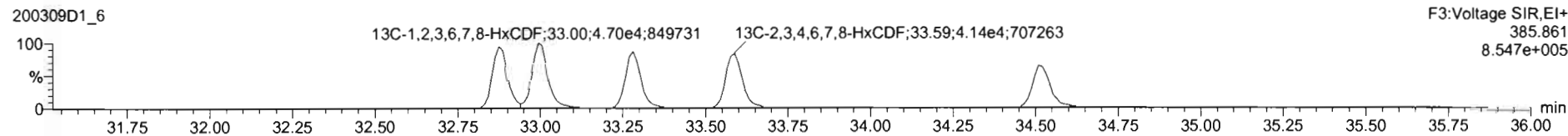
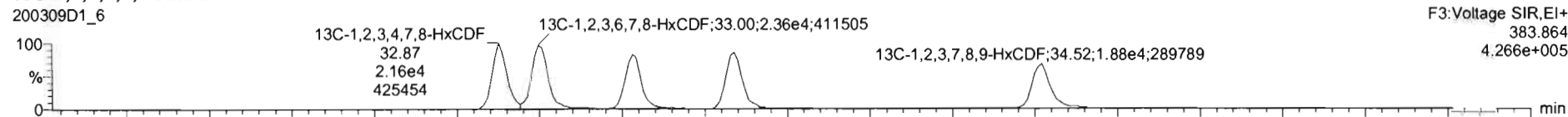
Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_6, Date: 09-Mar-2020, Time: 16:13:17, ID: ST200309D1-6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

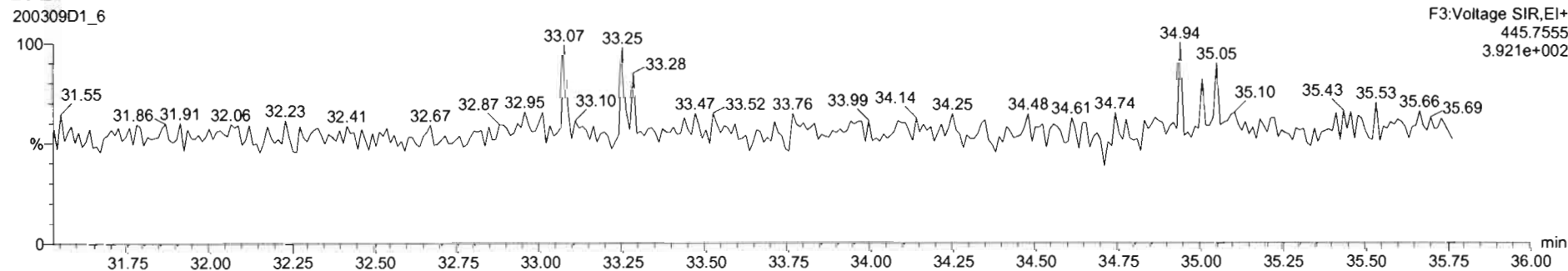
1,2,3,4,7,8-HxCDF



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



DPE3



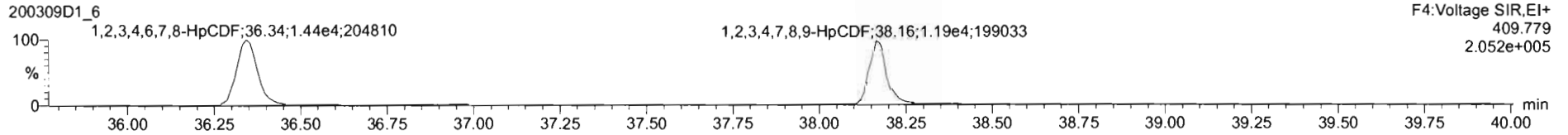
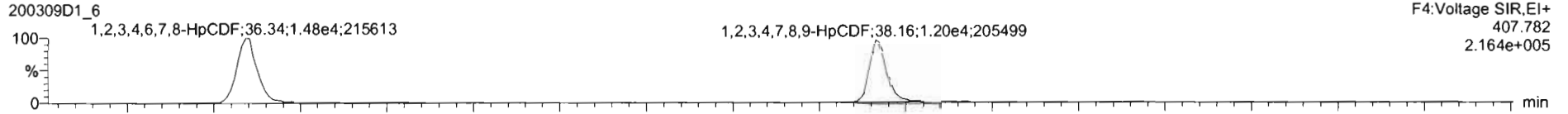


Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

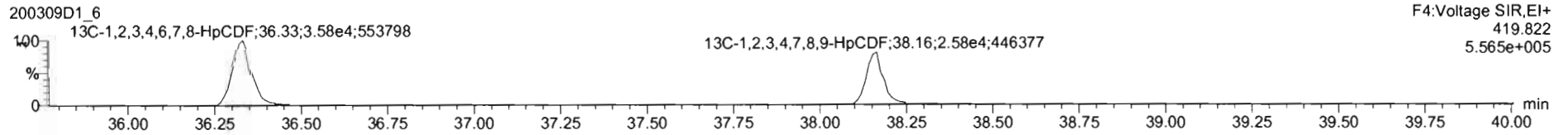
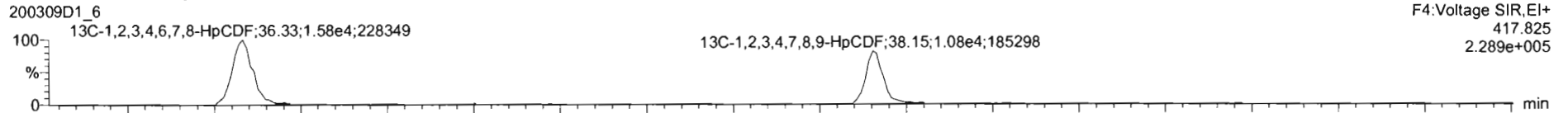
Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_6, Date: 09-Mar-2020, Time: 16:13:17, ID: ST200309D1-6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

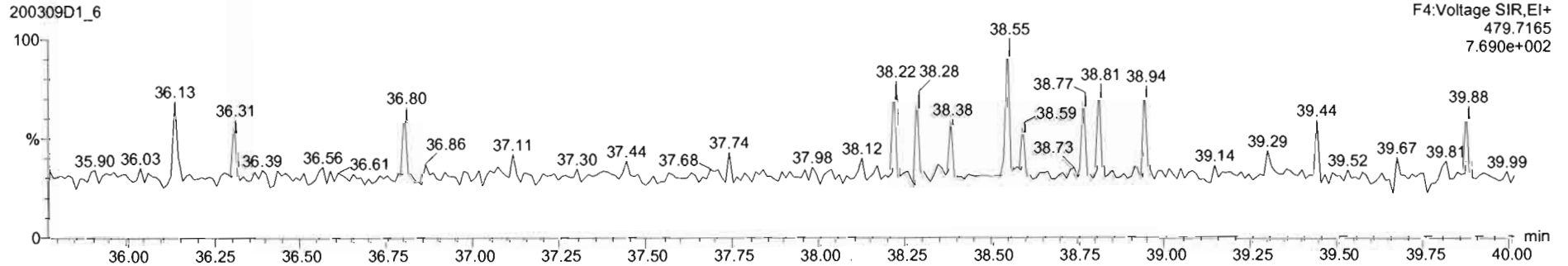
**1,2,3,4,6,7,8-HpCDF**



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



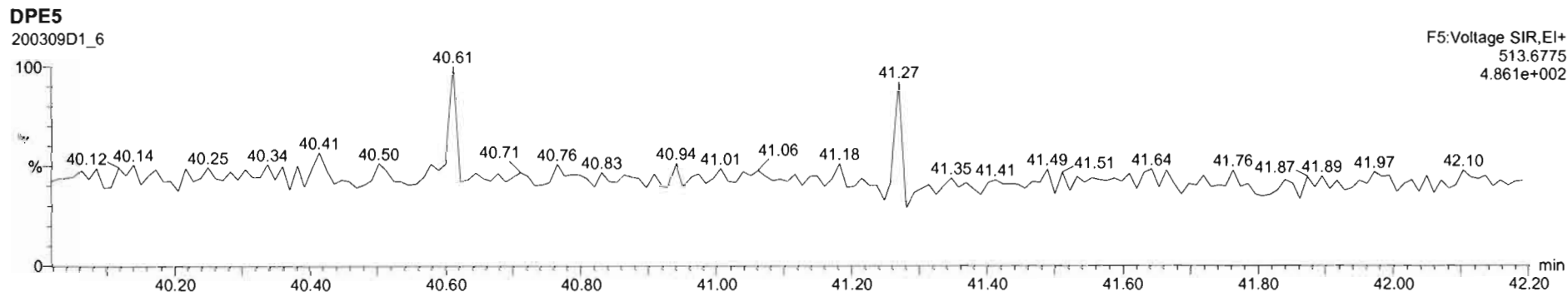
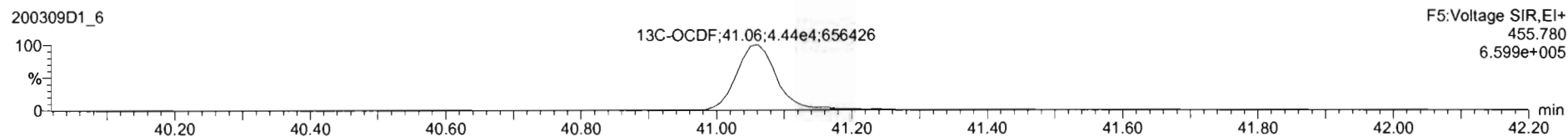
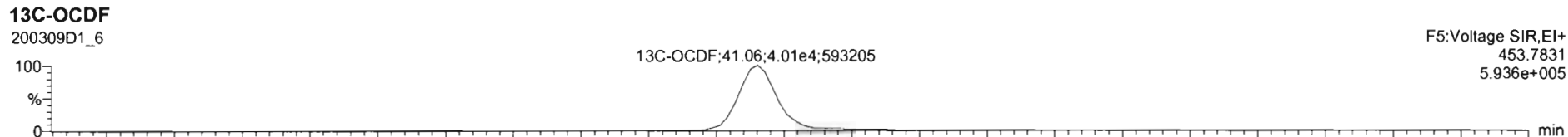
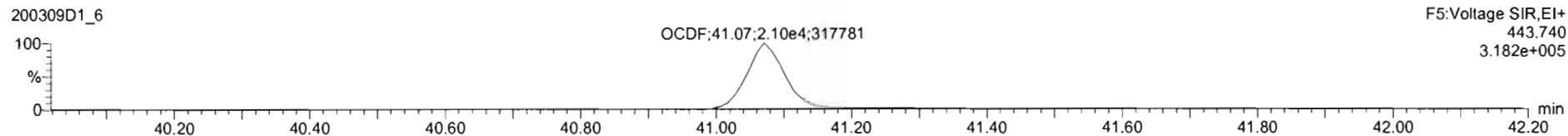
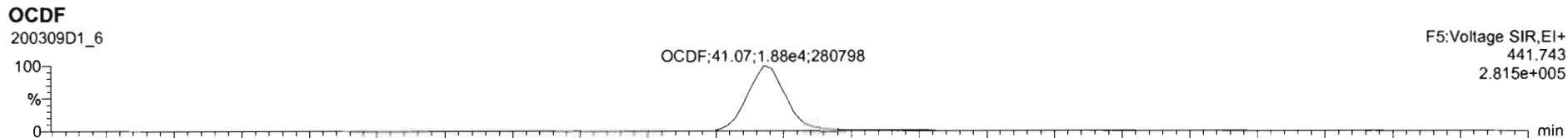
**DPE4**



Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_CRV.qld

Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time  
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_6, Date: 09-Mar-2020, Time: 16:13:17, ID: ST200309D1-6 1613 CS3 19L2305, Description: 1613 CS3 19L2305



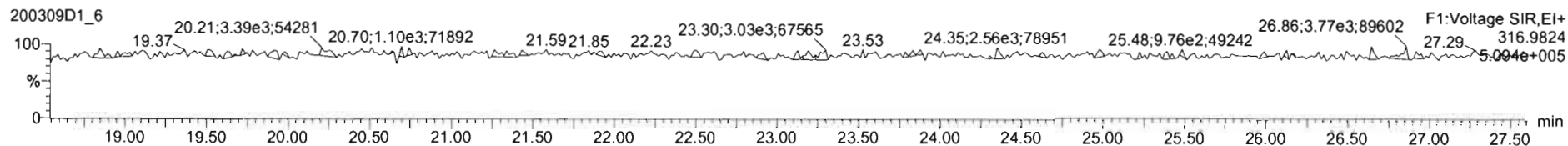
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Last Altered: Monday, March 09, 2020 16:58:54 Pacific Daylight Time

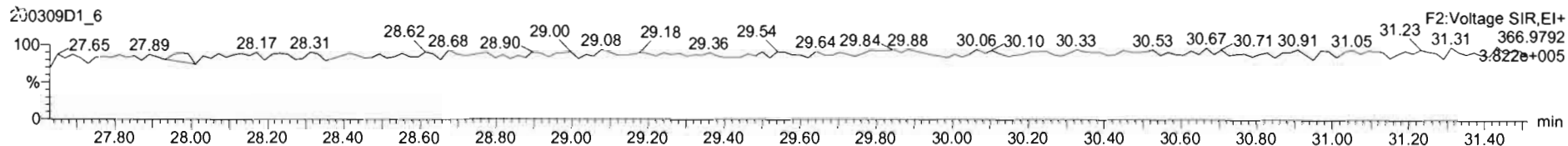
Printed: Monday, March 09, 2020 17:00:26 Pacific Daylight Time

Name: 200309D1\_6, Date: 09-Mar-2020, Time: 16:13:17, ID: ST200309D1-6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

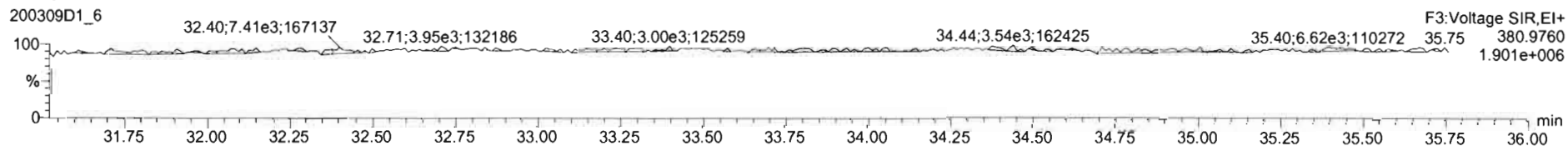
PFK1



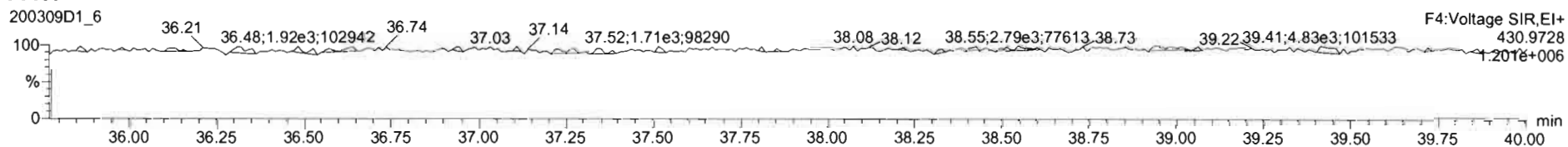
PFK2



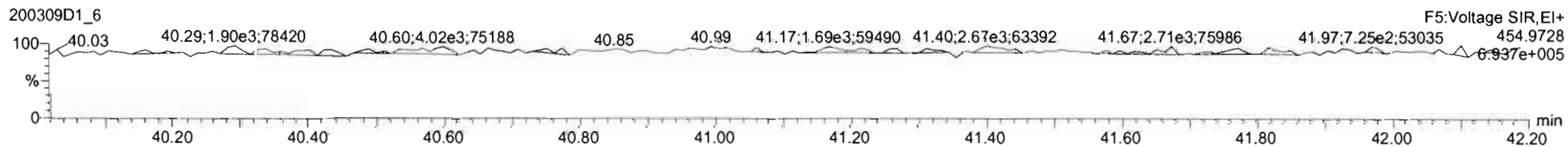
PFK3



PFK4

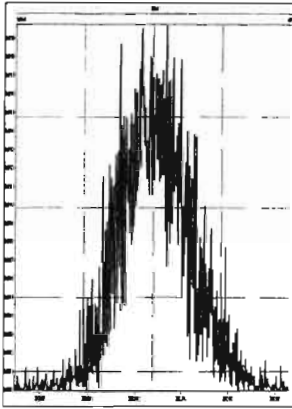


PFK5

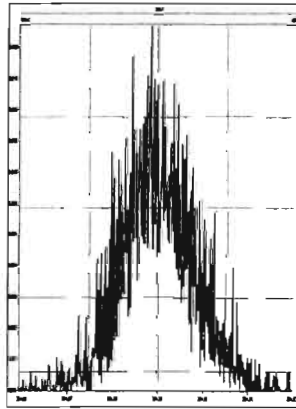


Printed: Tuesday, March 10, 2020 00:33:43 Pacific Daylight Time

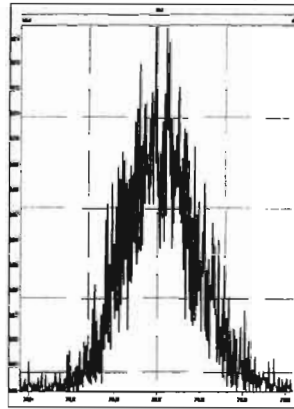
M 292.9824 R 11717



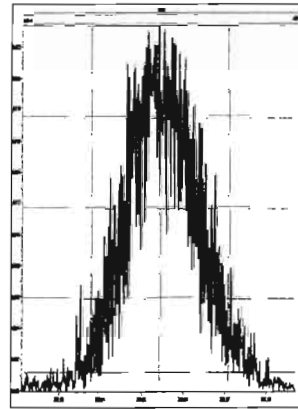
M 304.9824 R 10800



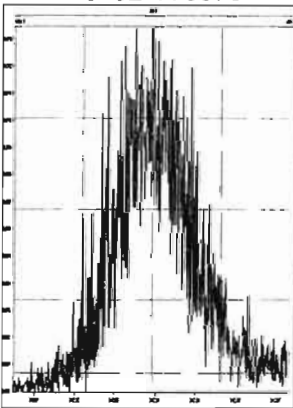
M 318.9792 R 10379



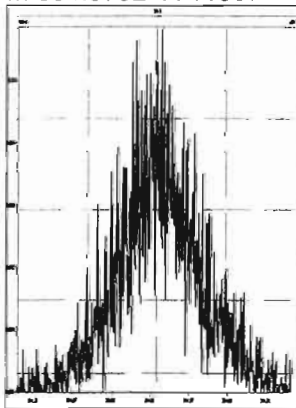
M 330.9792 R 9206



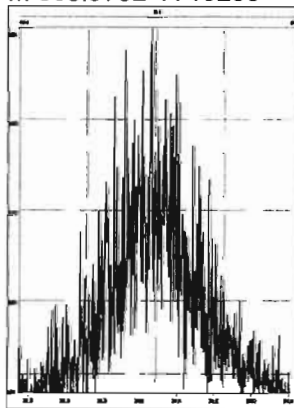
M 342.9792 R 9873



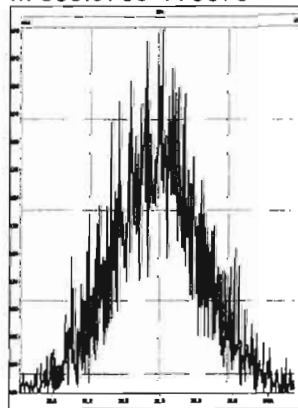
M 354.9792 R 11957



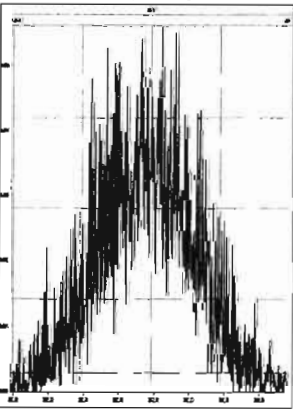
M 366.9792 R 15200



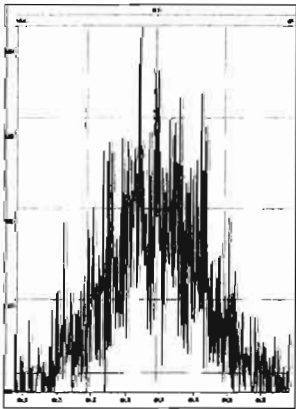
M 380.9760 R 8076



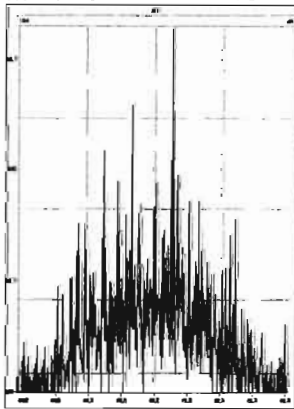
M 392.9760 R 8547



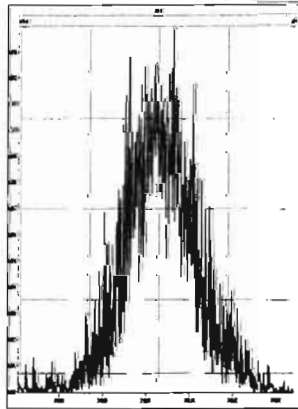
M 404.9760 R 11279



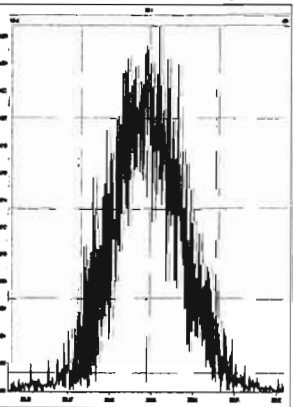
M 416.9760 R 21416



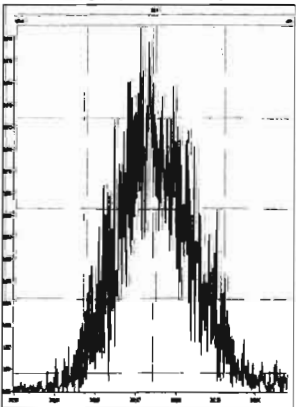
M 318.9792 R 11805



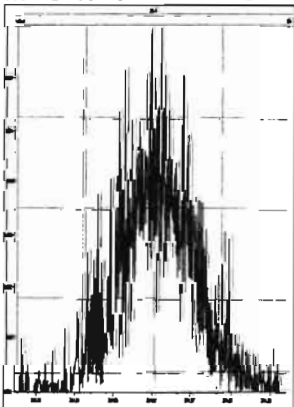
M 330.9792 R 11382



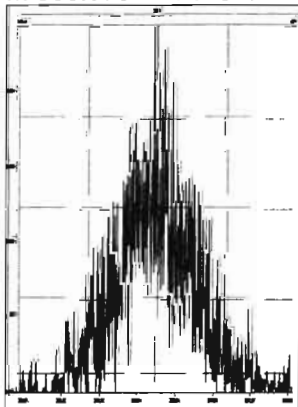
M 342.9792 R 11925



M 354.9792 R 11375

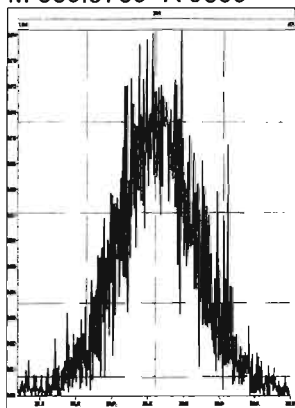


M 366.9792 R 14527

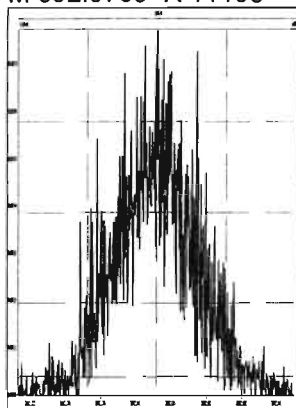


Printed: Tuesday, March 10, 2020 00:33:43 Pacific Daylight Time

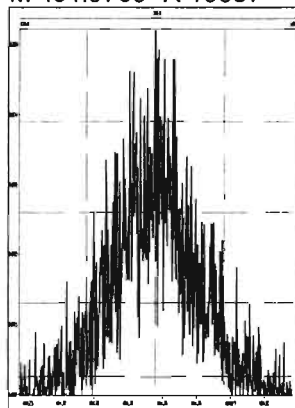
M 380.9760 R 9850



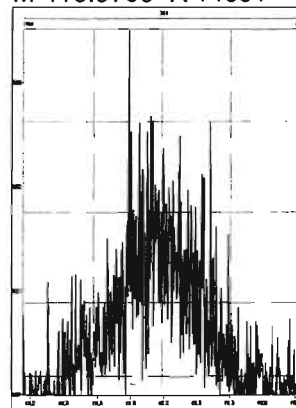
M 392.9760 R 11198



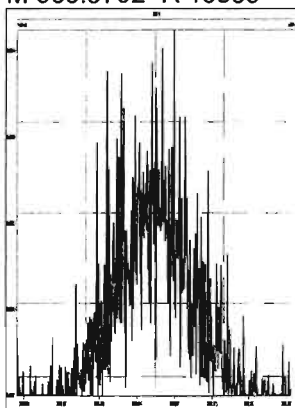
M 404.9760 R 10587



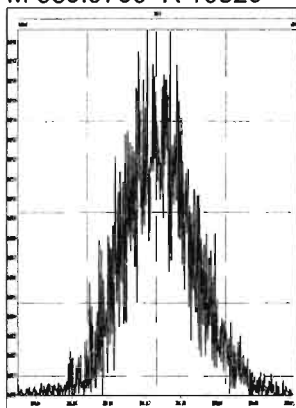
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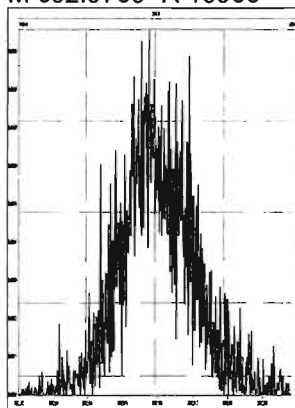
M 366.9792 R 15863



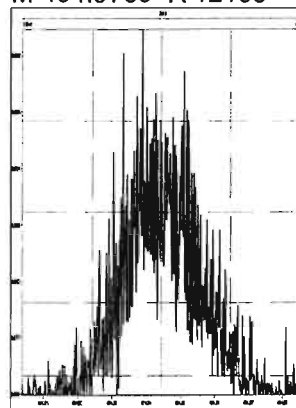
M 380.9760 R 10823



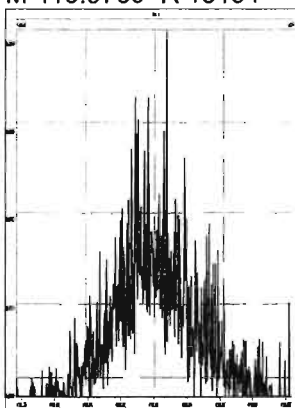
M 392.9760 R 10968



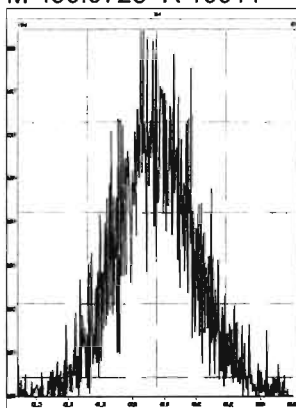
M 404.9760 R 12136



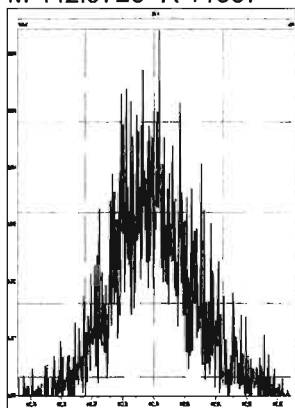
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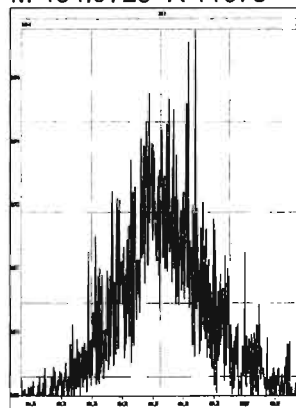
M 430.9728 R 10011



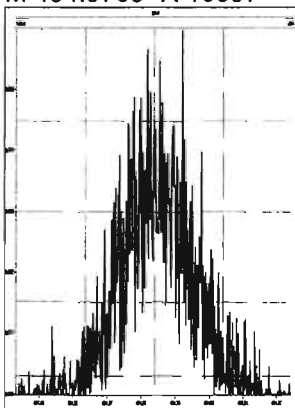
M 442.9728 R 11537



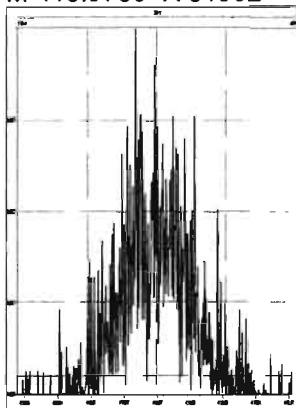
M 454.9728 R 11078



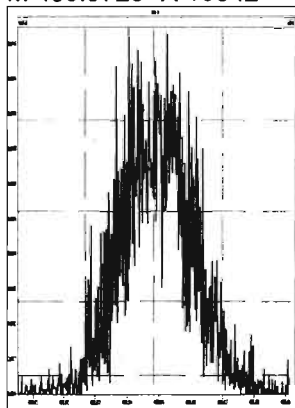
M 404.9760 R 13097



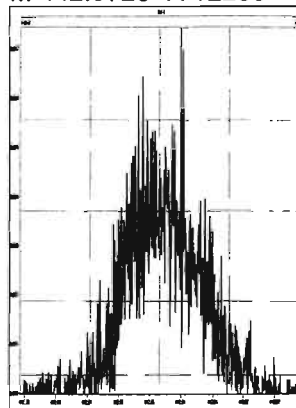
M 416.9760 R 31962



M 430.9728 R 10842

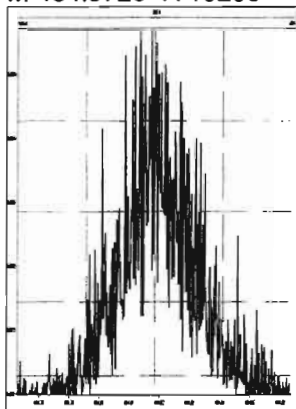


M 442.9728 R 12286

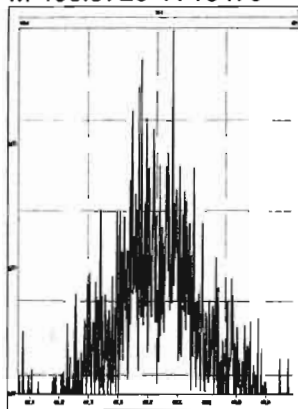


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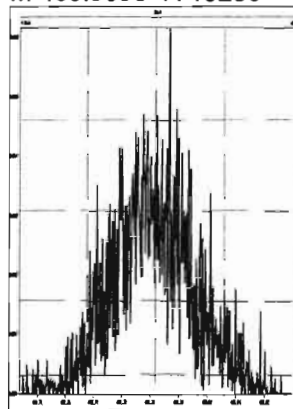
M 454.9728 R 10205



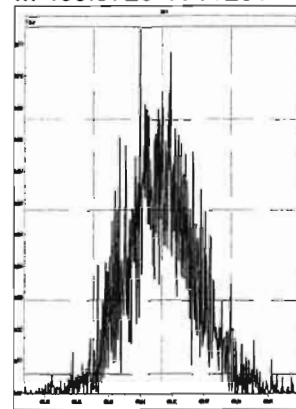
M 466.9728 R 18470



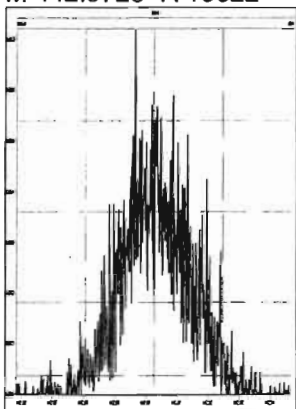
M 480.9696 R 10290



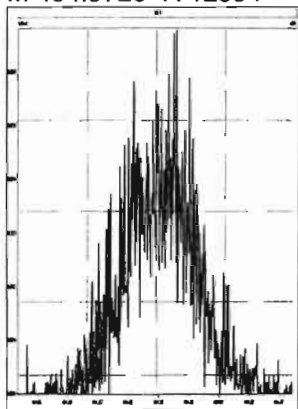
M 430.9728 R 11261



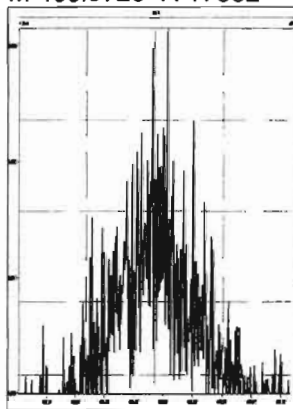
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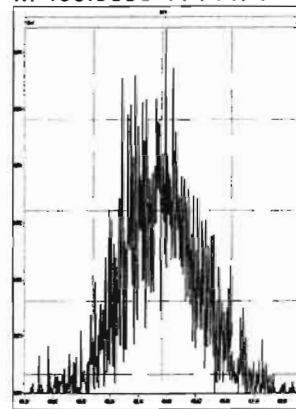
M 454.9728 R 12894



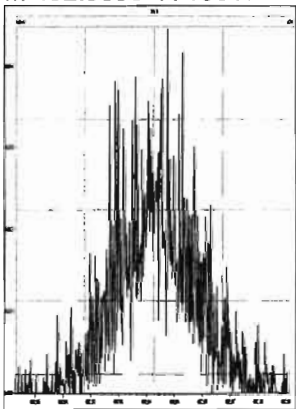
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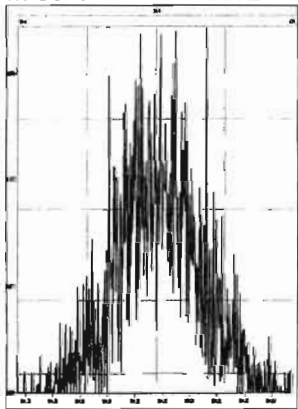
M 480.9696 R 14474



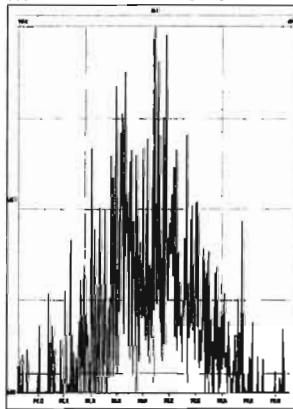
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M 504.9696 R 12112



M 516.9697 R 31394





Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_8.qld

Last Altered: Tuesday, March 10, 2020 10:04:50 Pacific Daylight Time

Printed: Tuesday, March 10, 2020 10:07:35 Pacific Daylight Time

*DB 3/10/20*

*03/10/2020*

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 09 Mar 2020 11:30:34

Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

Name: 200309D1\_8, Date: 09-Mar-2020, Time: 17:43:01, ID: SS200309D1-1 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	7.12e3	0.82	NO	0.987	1.000	25.913	25.90	1.001	1.001	10.343	103 <i>82-123</i>	0.180	10.3
2	2 1,2,3,7,8-PeCDD	3.03e4	0.61	NO	0.982	1.000	30.488	30.49	1.001	1.001	52.086	104 <i>78-130</i>	0.172	52.1
3	3 1,2,3,4,7,8-HxCDD	3.14e4	1.26	NO	1.17	1.000	33.762	33.77	1.000	1.001	53.633	107 <i>78-128</i>	0.277	53.6
4	4 1,2,3,6,7,8-HxCDD	3.40e4	1.25	NO	1.04	1.000	33.862	33.88	1.000	1.001	55.125	110 <i>78-128</i>	0.254	55.1
5	5 1,2,3,7,8,9-HxCDD	3.12e4	1.27	NO	1.00	1.000	34.192	34.17	1.001	1.000	55.125	110 <i>82-122</i>	0.269	55.1
6	6 1,2,3,4,6,7,8-HpCDD	2.60e4	1.06	NO	0.992	1.000	37.648	37.66	1.000	1.001	53.690	107 <i>86-116</i>	0.367	53.7
7	7 OCDD	4.37e4	0.89	NO	1.04	1.000	40.852	40.86	1.000	1.000	108.89	109 <i>79-126</i>	0.547	109
8	8 2,3,7,8-TCDF	1.03e4	0.76	NO	0.882	1.000	25.097	25.09	1.001	1.001	10.684	107 <i>86-116</i>	0.118	10.7
9	9 1,2,3,7,8-PeCDF	5.27e4	1.60	NO	1.05	1.000	29.300	29.30	1.001	1.001	51.536	103 <i>82-120</i>	0.197	51.5
10	10 2,3,4,7,8-PeCDF	5.98e4	1.60	NO	1.06	1.000	30.215	30.21	1.001	1.001	59.682	119 <i>82-120</i>	0.200	59.7
11	11 1,2,3,4,7,8-HxCDF	4.52e4	1.25	NO	1.08	1.000	32.885	32.90	1.000	1.000	53.095	106 <i>90-112</i>	0.250	53.1
12	12 1,2,3,6,7,8-HxCDF	4.79e4	1.28	NO	1.04	1.000	33.016	33.02	1.000	1.000	55.556	111 <i>88-114</i>	0.272	55.6
13	13 2,3,4,6,7,8-HxCDF	4.39e4	1.23	NO	1.11	1.000	33.622	33.61	1.001	1.001	51.071	102 <i>88-114</i>	0.265	51.1
14	14 1,2,3,7,8,9-HxCDF	3.57e4	1.26	NO	1.06	1.000	34.531	34.54	1.000	1.000	53.112	106 <i>90-112</i>	0.388	53.1
15	15 1,2,3,4,6,7,8-HpCDF	3.92e4	1.06	NO	1.13	1.000	36.378	36.35	1.001	1.000	54.829	110 <i>90-110</i>	0.369	54.8
16	16 1,2,3,4,7,8,9-HpCDF	3.06e4	1.04	NO	1.33	1.000	38.164	38.17	1.000	1.000	53.195	106 <i>86-116</i>	0.361	53.2
17	17 OCDF	4.98e4	0.88	NO	0.933	1.000	41.061	41.08	1.000	1.001	106.20	106 <i>63759</i>	0.530	106
18	18 13C-2,3,7,8-TCDD	6.98e4	0.77	NO	1.21	1.000	25.959	25.88	1.026	1.023	88.582	88.6 <i>82-121</i>	0.809	
19	19 13C-1,2,3,7,8-PeCDD	5.93e4	0.64	NO	0.996	1.000	30.412	30.47	1.202	1.204	91.239	91.2 <i>62-160</i>	0.394	
20	20 13C-1,2,3,4,7,8-HxCDD	4.99e4	1.29	NO	0.679	1.000	33.746	33.75	1.014	1.014	92.345	92.3 <i>85-117</i>	0.538	
21	21 13C-1,2,3,6,7,8-HxCDD	5.95e4	1.31	NO	0.850	1.000	33.856	33.86	1.017	1.017	87.951	88.0 <i>85-118</i>	0.430	
22	22 13C-1,2,3,7,8,9-HxCDD	5.65e4	1.24	NO	0.798	1.000	34.125	34.16	1.025	1.026	88.796	88.8 <i>85-118</i>	0.457	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.89e4	1.05	NO	0.697	1.000	37.573	37.64	1.129	1.131	88.088	88.1 <i>72-138</i>	0.645	
24	24 13C-OCDD	7.76e4	0.90	NO	0.579	1.000	40.582	40.85	1.219	1.228	168.23	84.1 <i>48-207</i>	1.07	
25	25 13C-2,3,7,8-TCDF	1.09e5	0.77	NO	1.13	1.000	25.048	25.07	0.990	0.991	91.711	91.7 <i>71-140</i>	0.730	
26	26 13C-1,2,3,7,8-PeCDF	9.78e4	1.64	NO	0.996	1.000	29.240	29.28	1.156	1.157	93.246	93.2 <i>76-130</i>	0.529	
27	27 13C-2,3,4,7,8-PeCDF	9.45e4	1.60	NO	0.969	1.000	30.133	30.18	1.191	1.193	92.595	92.6 <i>77-130</i>	0.544	
28	28 13C-1,2,3,4,7,8-HxCDF	7.87e4	0.50	NO	1.06	1.000	32.881	32.88	0.988	0.988	93.385	93.4 <i>76-131</i>	0.584	
29	29 13C-1,2,3,6,7,8-HxCDF	8.27e4	0.50	NO	1.18	1.000	33.014	33.01	0.992	0.992	88.358	88.4 <i>70-143</i>	0.526	
30	30 13C-2,3,4,6,7,8-HxCDF	7.74e4	0.51	NO	1.06	1.000	33.583	33.59	1.009	1.009	91.900	91.9 <i>73-137</i>	0.585	
31	31 13C-1,2,3,7,8,9-HxCDF	6.36e4	0.49	NO	0.879	1.000	34.478	34.53	1.036	1.038	90.868	90.9 <i>74-135</i>	0.703	

Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_8.qld

Last Altered: Tuesday, March 10, 2020 10:04:50 Pacific Daylight Time  
Printed: Tuesday, March 10, 2020 10:07:35 Pacific Daylight Time

Name: 200309D1\_8, Date: 09-Mar-2020, Time: 17:43:01, ID: SS200309D1-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.34e4	0.43	NO	0.893	1.000	36.175	36.34	1.087	1.092	89.122	89.1 78-129	0.614	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.31e4	0.43	NO	0.613	1.000	38.172	38.16	1.147	1.147	88.244	88.2 77-129	0.893	
34	34 13C-OCDF	1.01e5	0.86	NO	0.741	1.000	40.735	41.06	1.224	1.234	170.22	85.1 48-207	0.528	
35	35 37Cl-2,3,7,8-TCDD	7.09e3			1.18	1.000	25.956	25.90	1.026	1.024	9.2054	92.1 79-127	0.0703	
36	36 13C-1,2,3,4-TCDD	6.53e4	0.81	NO	1.00	1.000	25.440	25.30	1.000	1.000	100.00	100	0.977	
37	37 13C-1,2,3,4-TCDF	1.05e5	0.80	NO	1.00	1.000	23.970	23.80	1.000	1.000	100.00	100	0.823	
38	38 13C-1,2,3,4,6,9-HxCDF	7.97e4	0.51	NO	1.00	1.000	33.260	33.28	1.000	1.000	100.00	100	0.618	



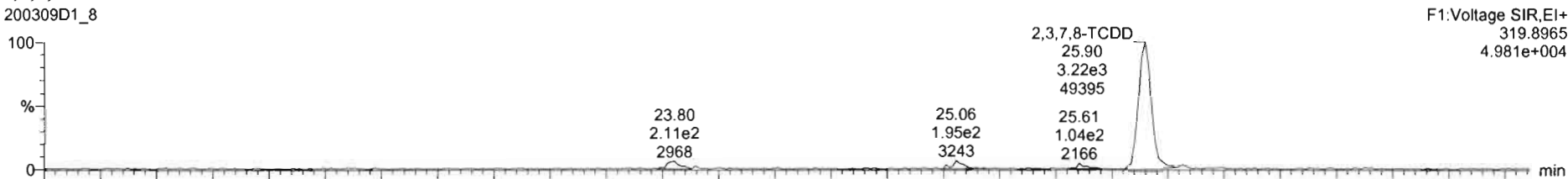
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Last Altered: Tuesday, March 10, 2020 09:46:21 Pacific Daylight Time  
Printed: Tuesday, March 10, 2020 09:53:02 Pacific Daylight Time

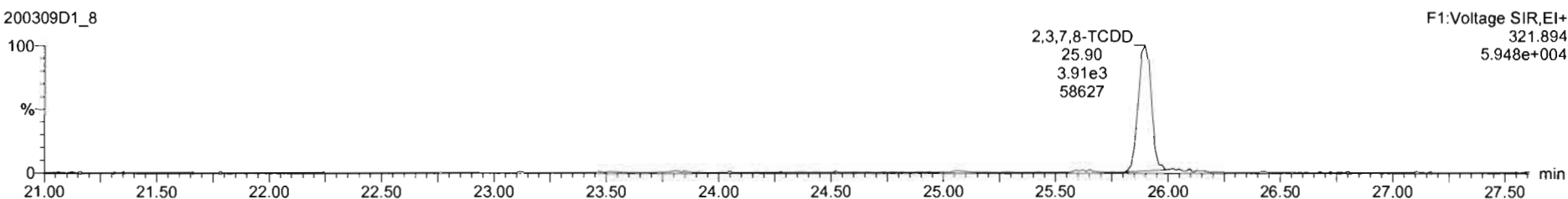
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Name: 200309D1\_8, Date: 09-Mar-2020, Time: 17:43:01, ID: SS200309D1-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

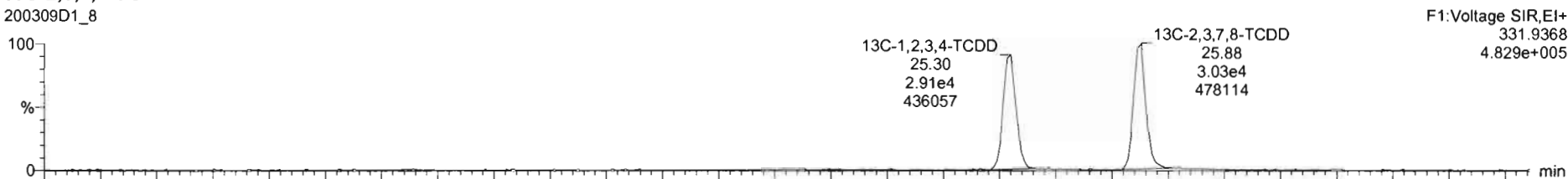
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200309D1\_8



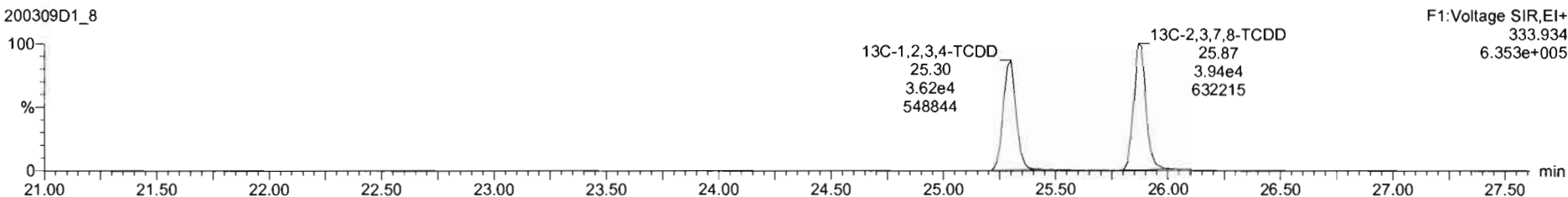
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13C-2,3,7,8-TCDD  
200309D1\_8



200309D1\_8

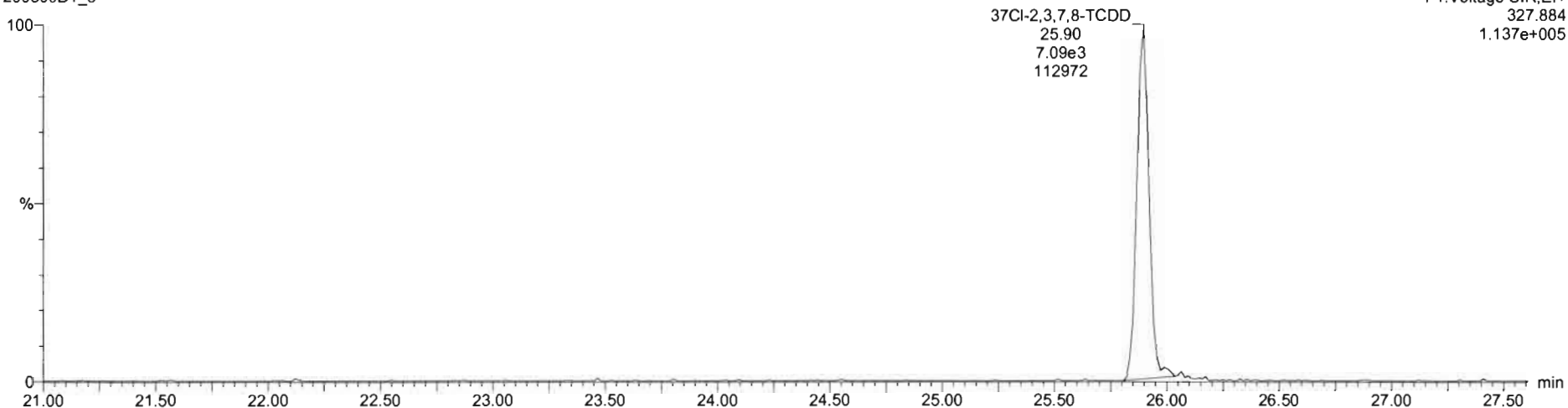


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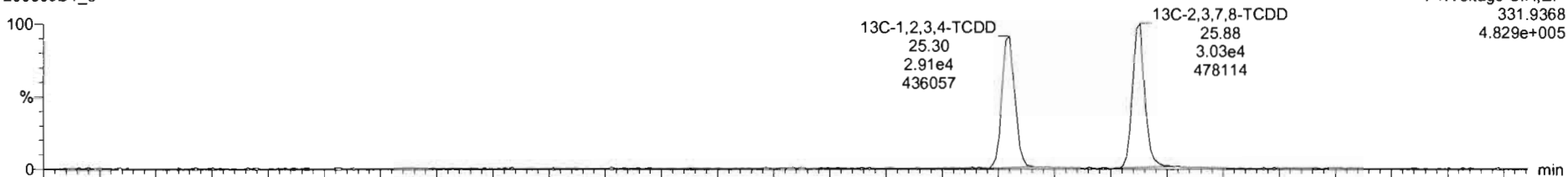
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Printed: Tuesday, March 10, 2020 09:53:02 Pacific Daylight Time

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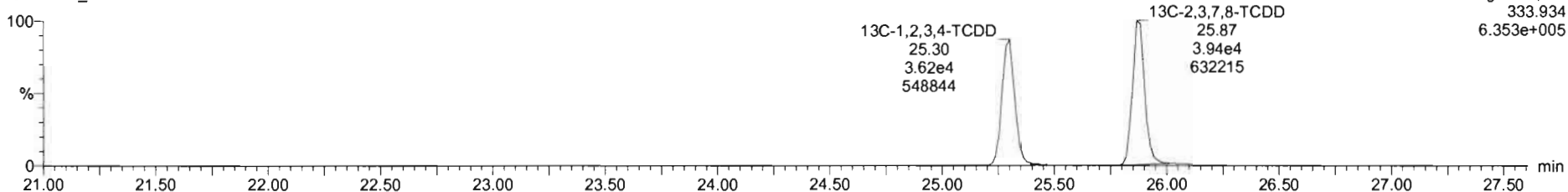
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200309D1\_8



**13C-1,2,3,4-TCDD**  
200309D1\_8



200309D1\_8



Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_8.qld

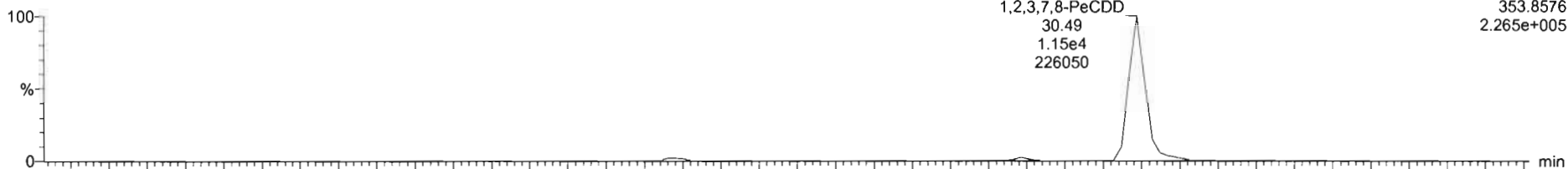
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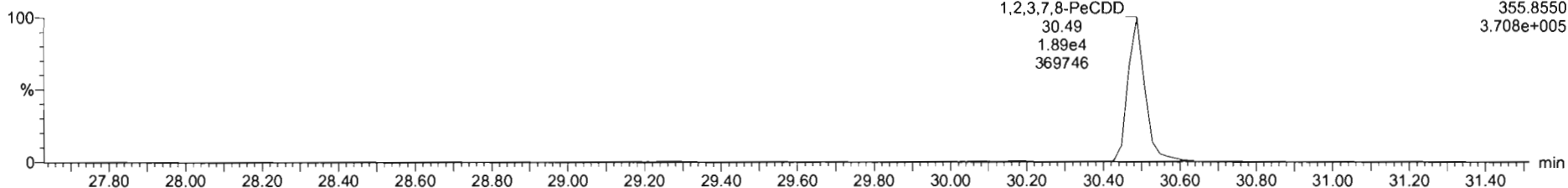
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**1,2,3,7,8-PeCDD**

200309D1\_8

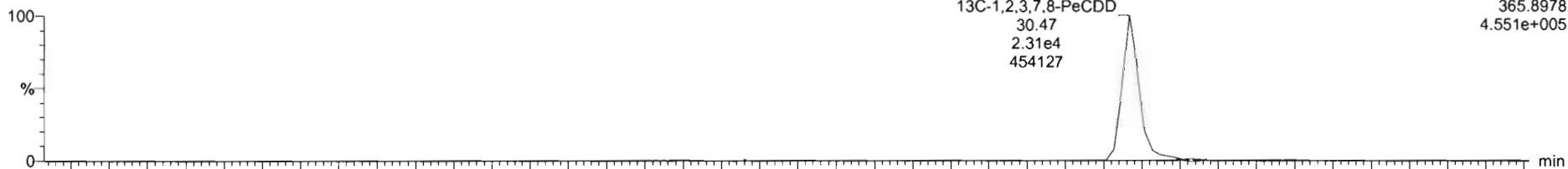


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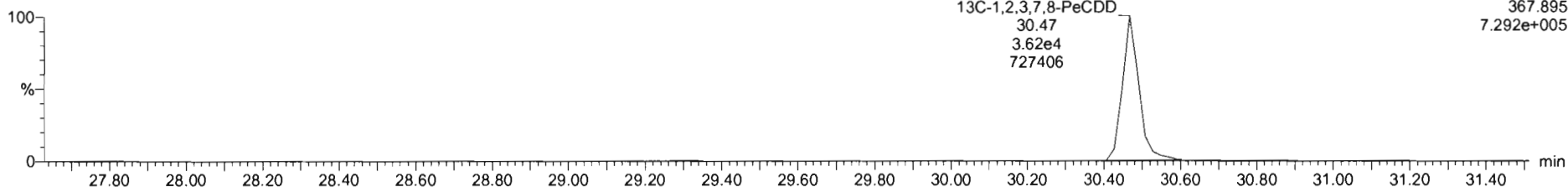


**13C-1,2,3,7,8-PeCDD**

200309D1\_8



200309D1\_8



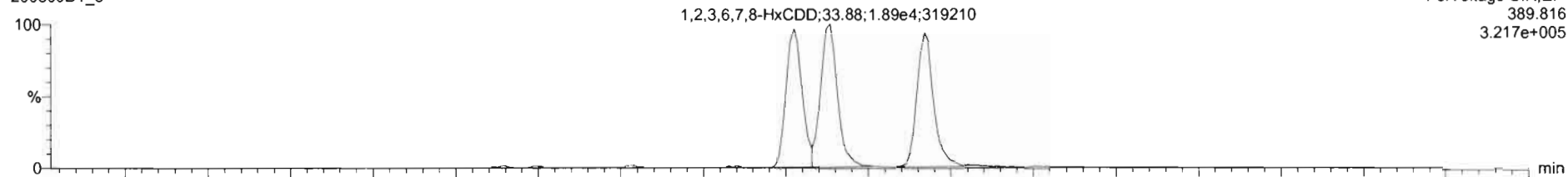
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Last Altered: Tuesday, March 10, 2020 09:46:21 Pacific Daylight Time  
Printed: Tuesday, March 10, 2020 09:53:02 Pacific Daylight Time

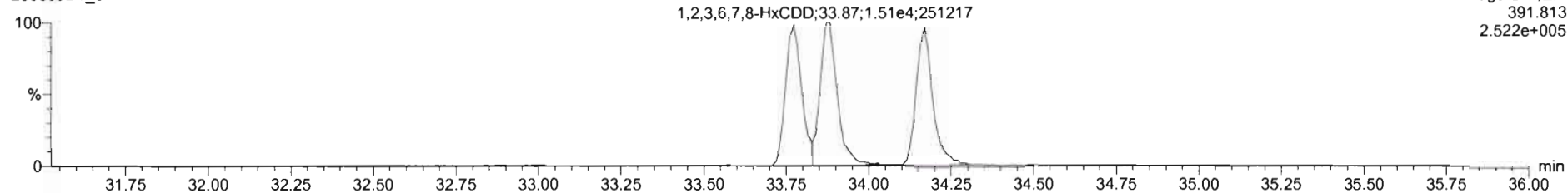
Name: 200309D1\_8, Date: 09-Mar-2020, Time: 17:43:01, ID: SS200309D1-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200309D1\_8

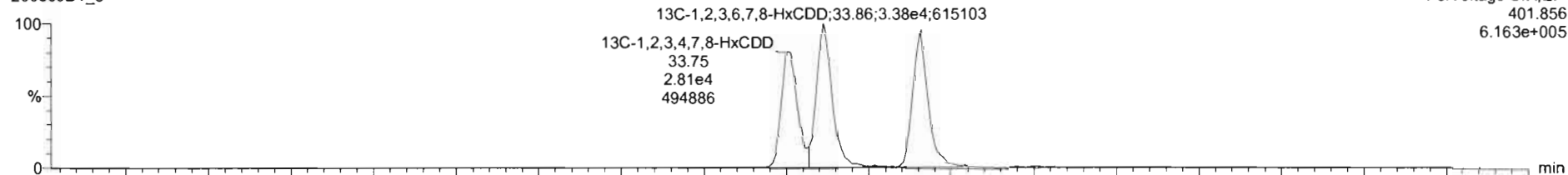


200309D1\_8

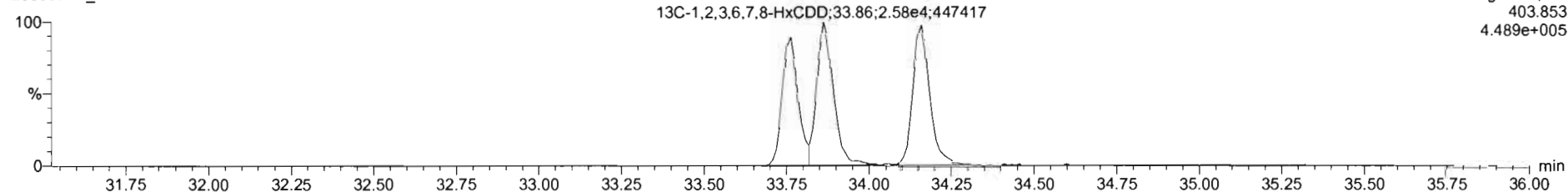


**13C-1,2,3,4,7,8-HxCDD**

200309D1\_8



200309D1\_8



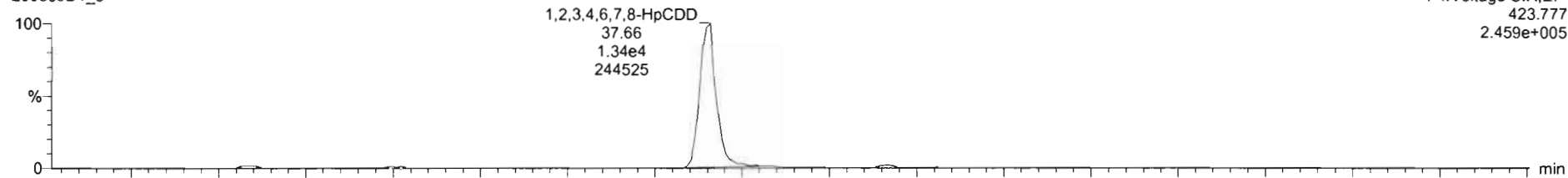
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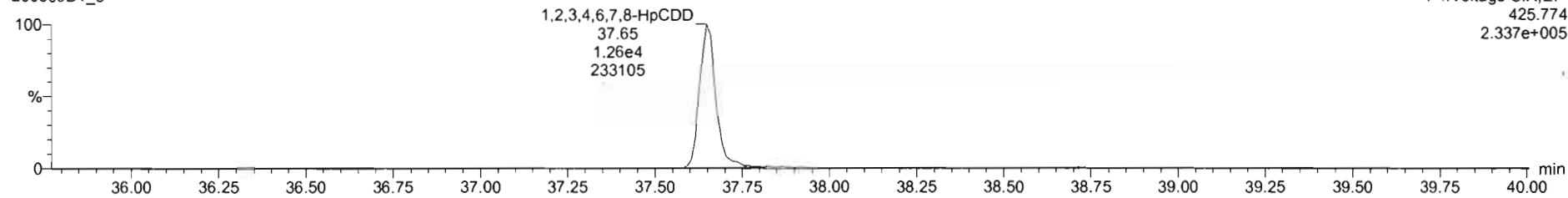
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**1,2,3,4,6,7,8-HpCDD**

200309D1\_8

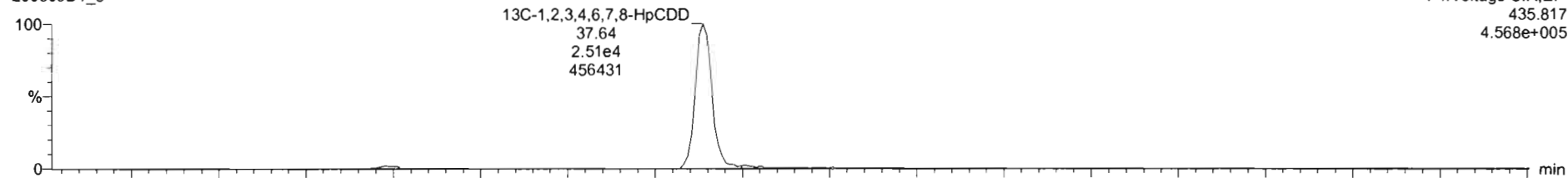


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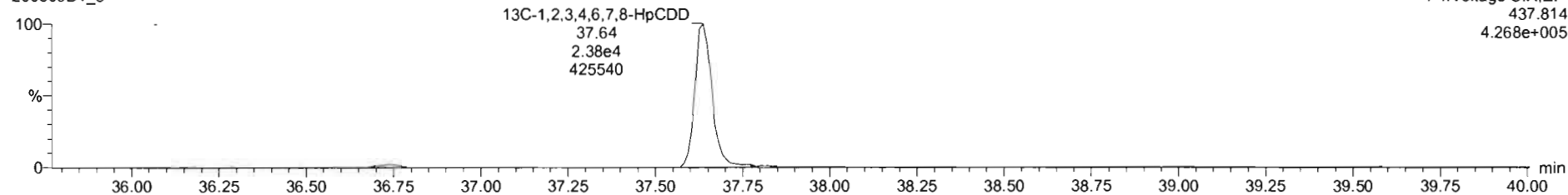


**13C-1,2,3,4,6,7,8-HpCDD**

200309D1\_8



200309D1\_8



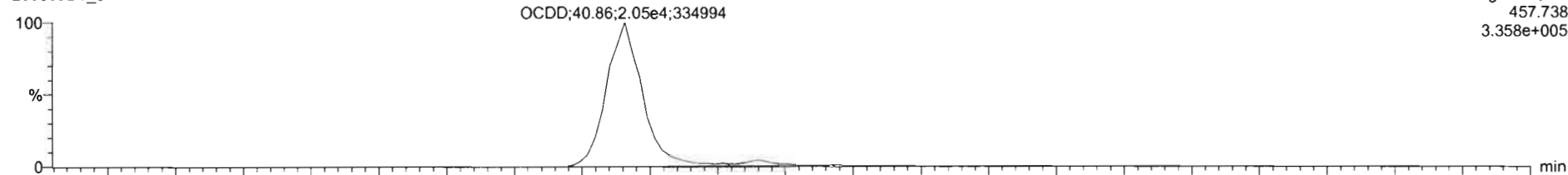
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_8.qld

Last Altered: Tuesday, March 10, 2020 09:46:21 Pacific Daylight Time  
Printed: Tuesday, March 10, 2020 09:53:02 Pacific Daylight Time

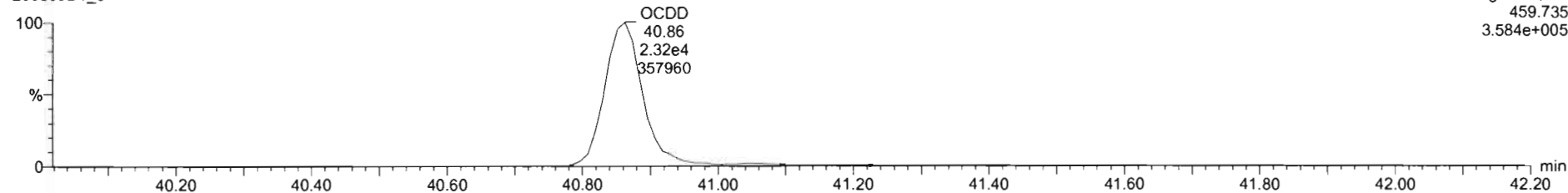
Name: 200309D1\_8, Date: 09-Mar-2020, Time: 17:43:01, ID: SS200309D1-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

**OCDD**

200309D1\_8

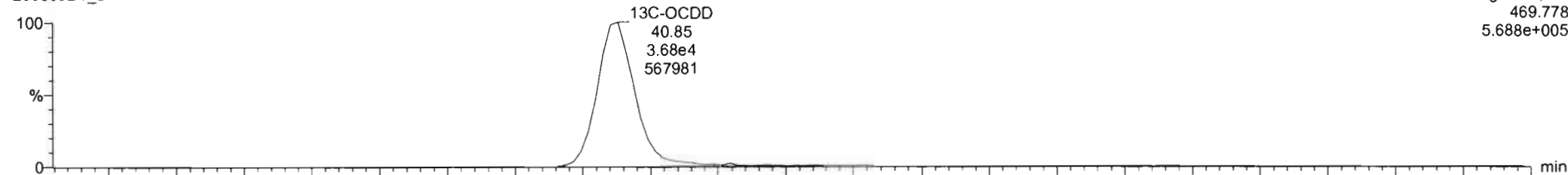


200309D1\_8

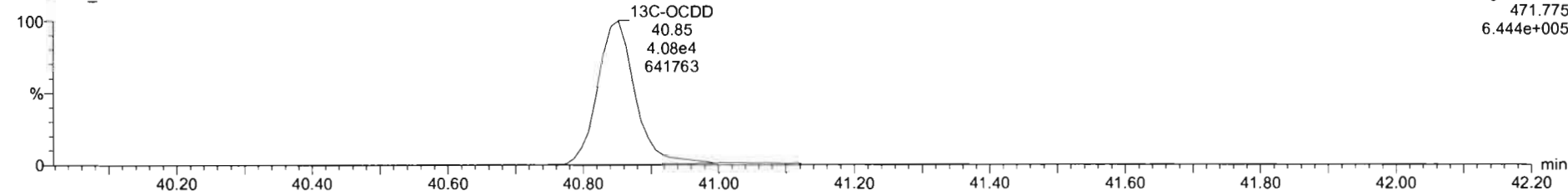


**13C-OCDD**

200309D1\_8



200309D1\_8



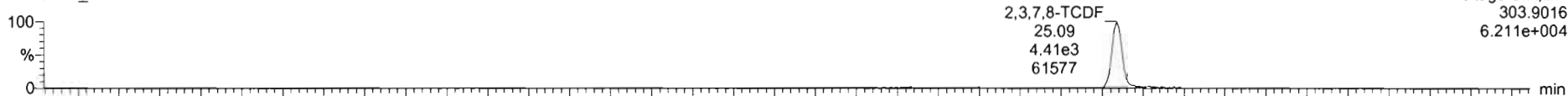
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_8.qld

Last Altered: Tuesday, March 10, 2020 09:46:21 Pacific Daylight Time  
Printed: Tuesday, March 10, 2020 09:53:02 Pacific Daylight Time

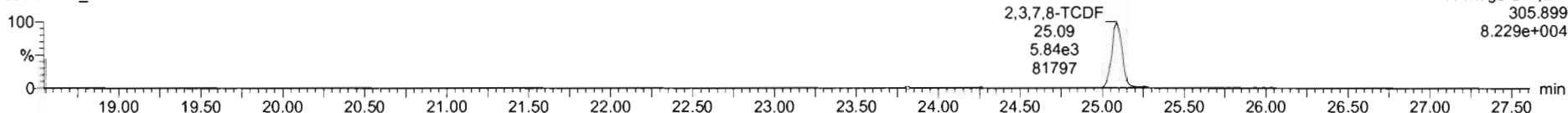
Name: 200309D1\_8, Date: 09-Mar-2020, Time: 17:43:01, ID: SS200309D1-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

**2,3,7,8-TCDF**

200309D1\_8

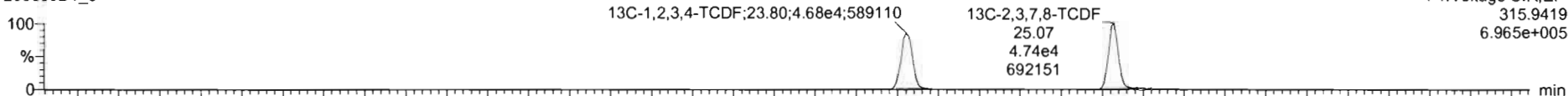


200309D1\_8

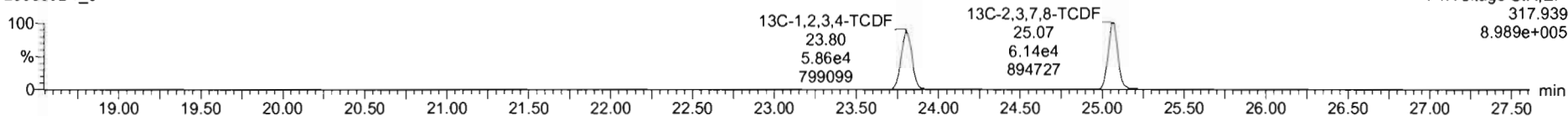


**13C-2,3,7,8-TCDF**

200309D1\_8

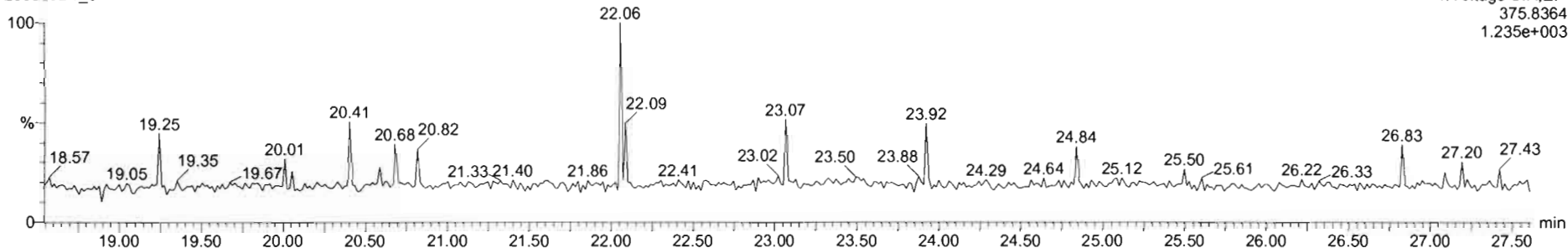


200309D1\_8



**DPE1**

200309D1\_8



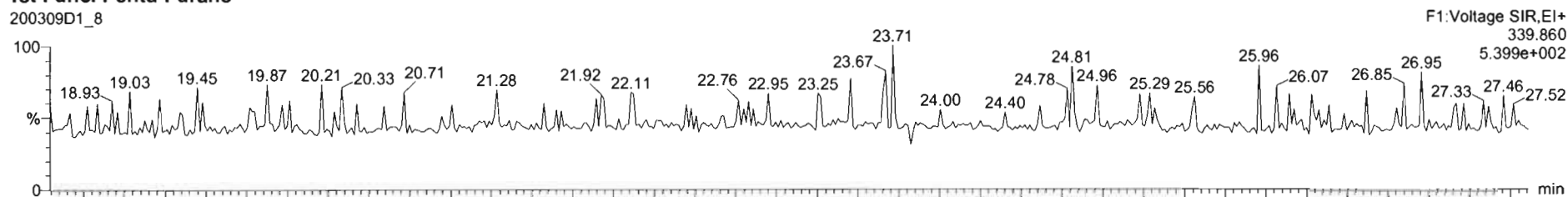
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_8.qld

Last Altered: Tuesday, March 10, 2020 09:46:21 Pacific Daylight Time  
Printed: Tuesday, March 10, 2020 09:53:02 Pacific Daylight Time

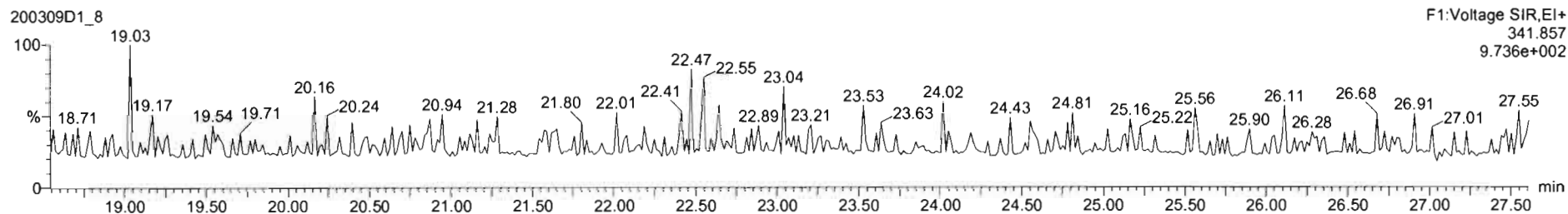
Name: 200309D1\_8, Date: 09-Mar-2020, Time: 17:43:01, ID: SS200309D1-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1st Func. Penta-Furans

200309D1\_8

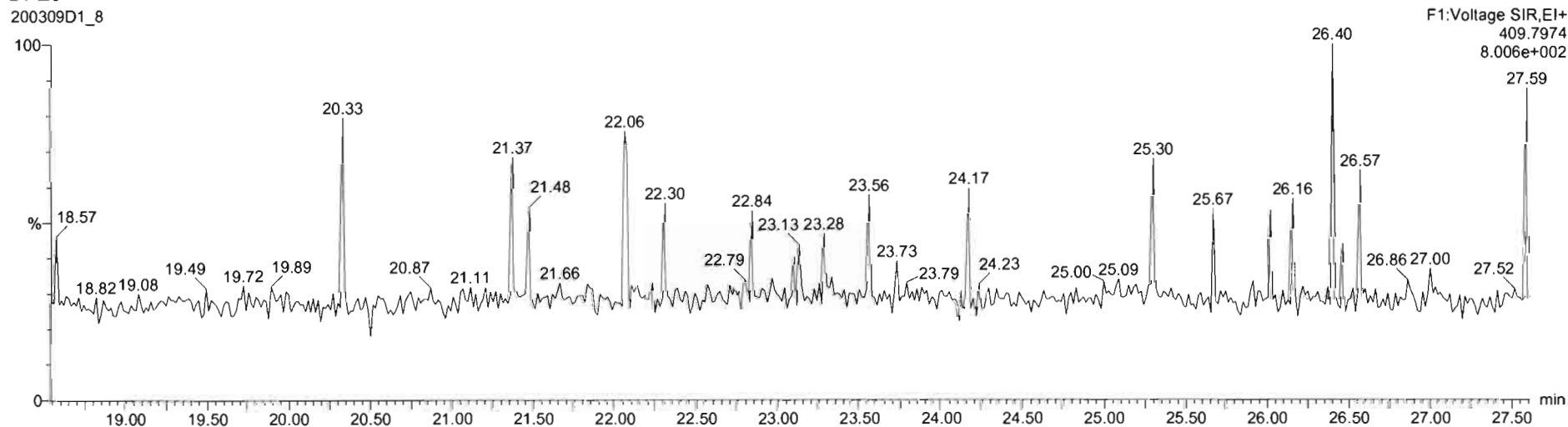


200309D1\_8



DPE6

200309D1\_8





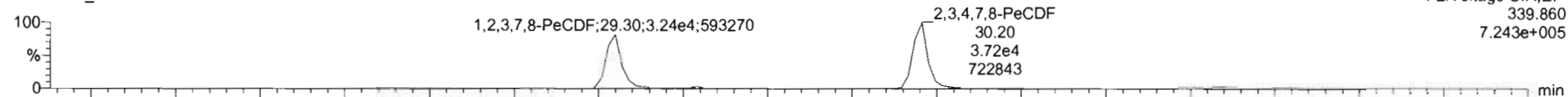
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_8.qld

Last Altered: Tuesday, March 10, 2020 09:46:21 Pacific Daylight Time  
Printed: Tuesday, March 10, 2020 09:53:02 Pacific Daylight Time

Name: 200309D1\_8, Date: 09-Mar-2020, Time: 17:43:01, ID: SS200309D1-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

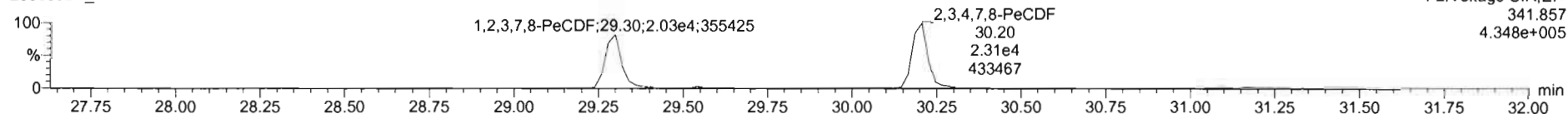
**1,2,3,7,8-PeCDF**

200309D1\_8



F2:Voltage SIR,EI+  
339.860  
7.243e+005

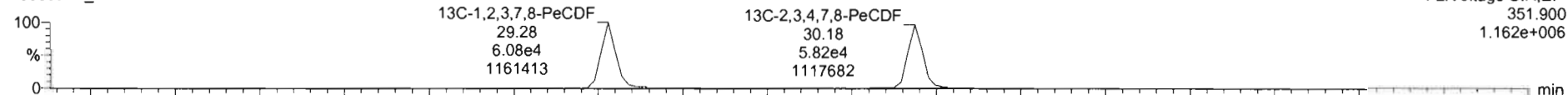
200309D1\_8



F2:Voltage SIR,EI+  
341.857  
4.348e+005

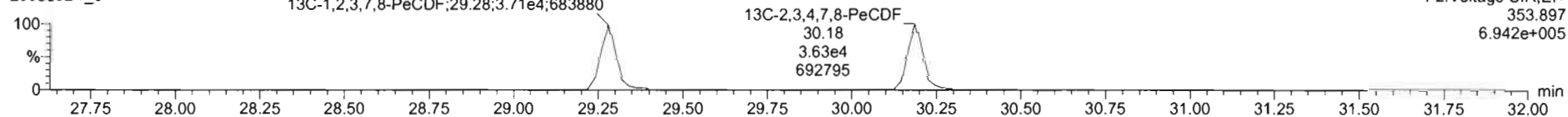
**13C-1,2,3,7,8-PeCDF**

200309D1\_8



F2:Voltage SIR,EI+  
351.900  
1.162e+006

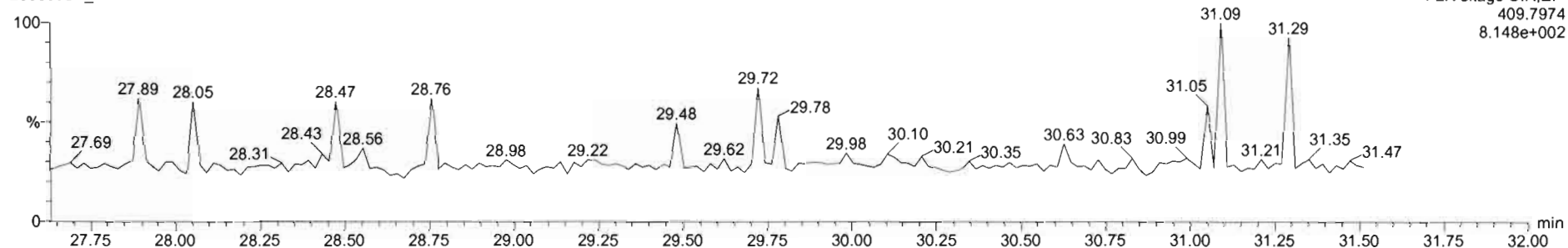
200309D1\_8



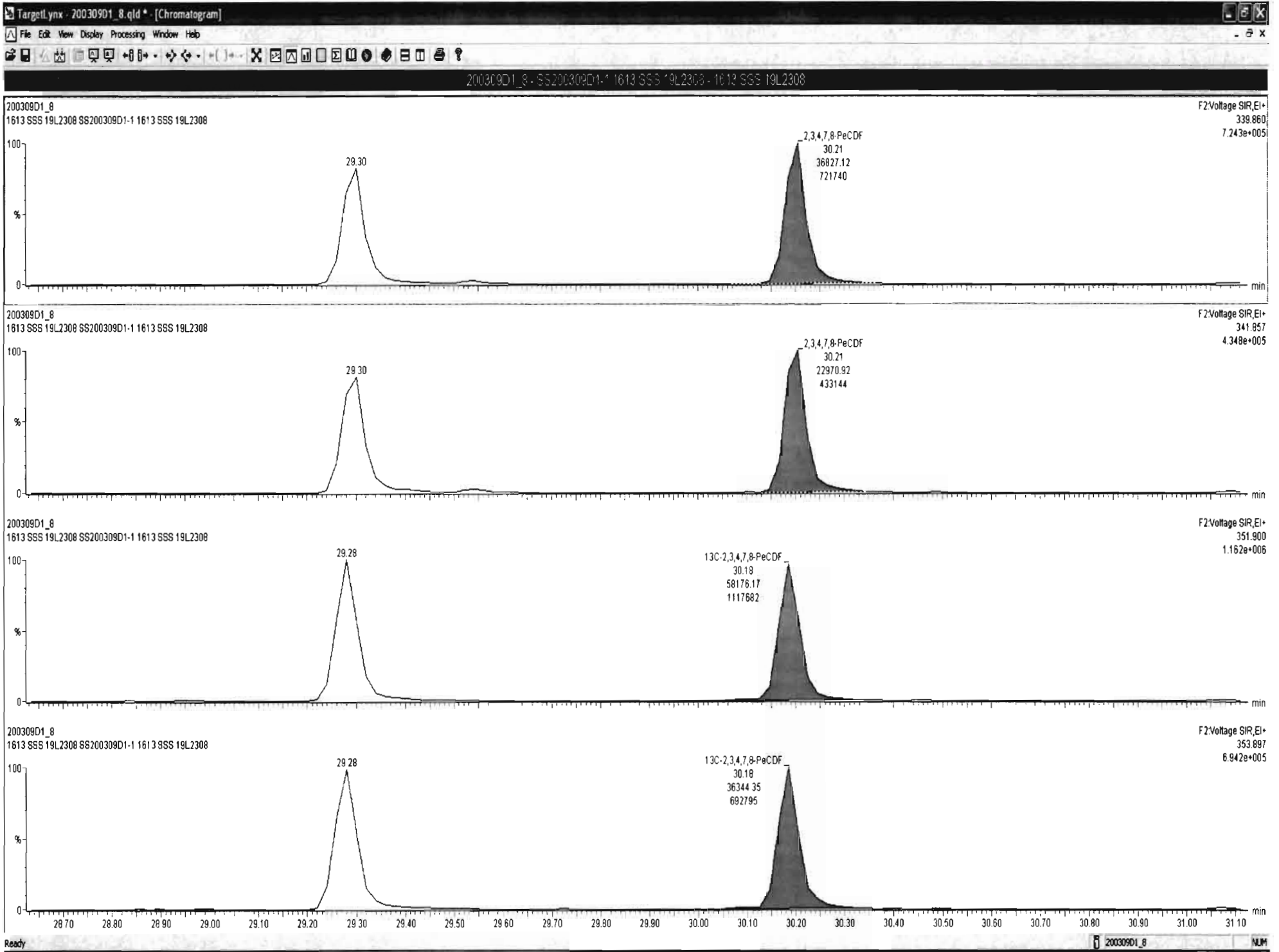
F2:Voltage SIR,EI+  
353.897  
6.942e+005

**DPE2**

200309D1\_8



F2:Voltage SIR,EI+  
409.7974  
8.148e+002

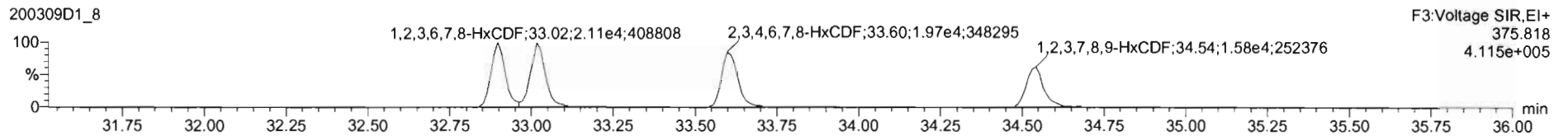
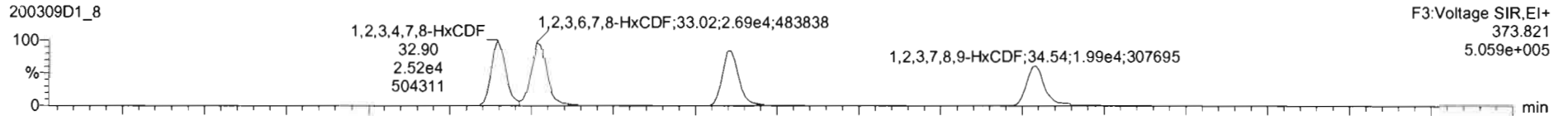


Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_8.qld

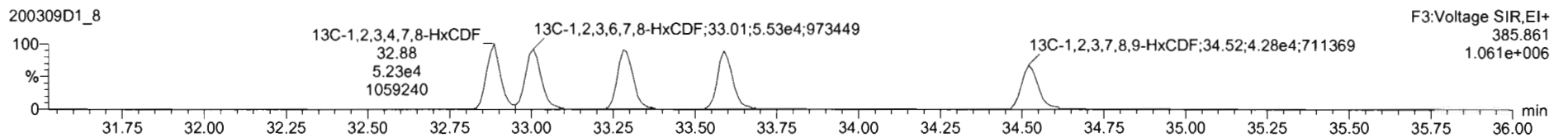
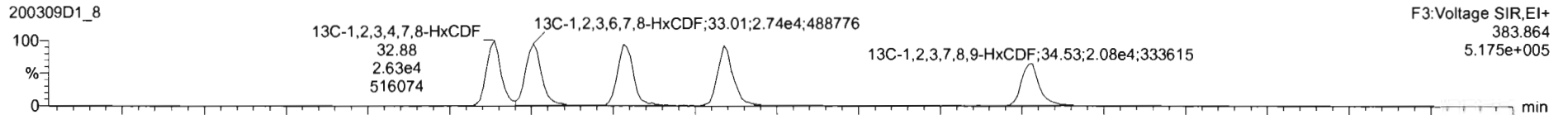
Last Altered: Tuesday, March 10, 2020 09:46:21 Pacific Daylight Time  
Printed: Tuesday, March 10, 2020 09:53:02 Pacific Daylight Time

Name: 200309D1\_8, Date: 09-Mar-2020, Time: 17:43:01, ID: SS200309D1-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

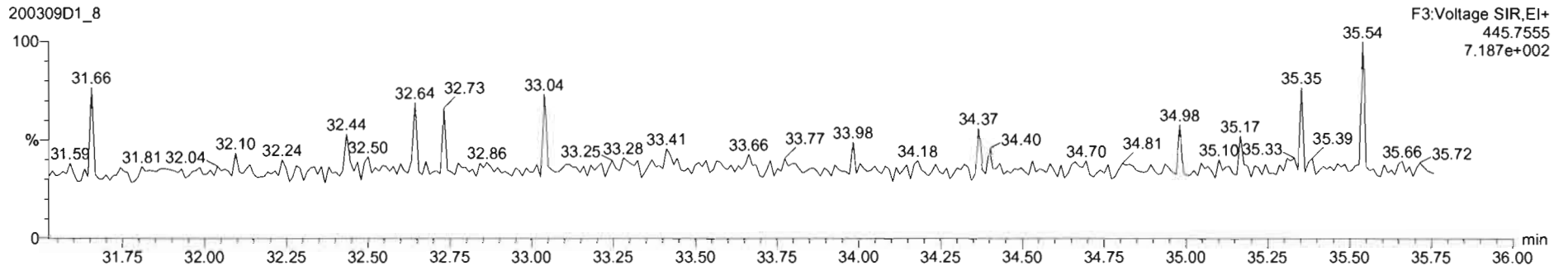
**1,2,3,4,7,8-HxCDF**



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



**DPE3**



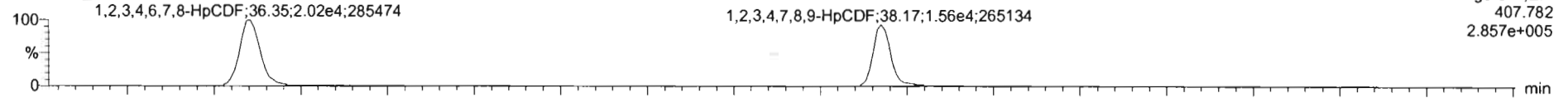
Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_8.qld

Last Altered: Tuesday, March 10, 2020 09:46:21 Pacific Daylight Time  
Printed: Tuesday, March 10, 2020 09:53:02 Pacific Daylight Time

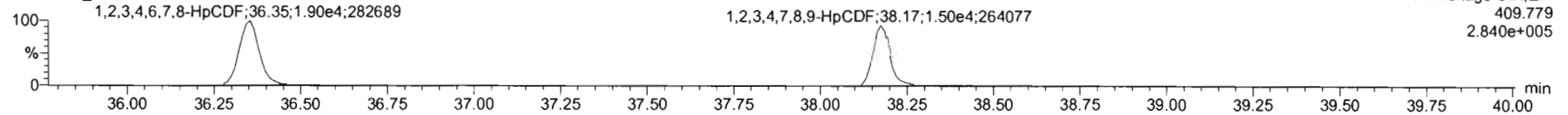
Name: 200309D1\_8, Date: 09-Mar-2020, Time: 17:43:01, ID: SS200309D1-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200309D1\_8

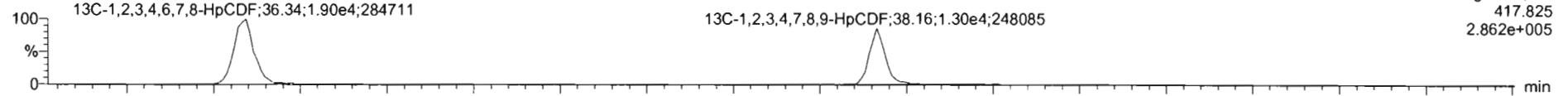


200309D1\_8

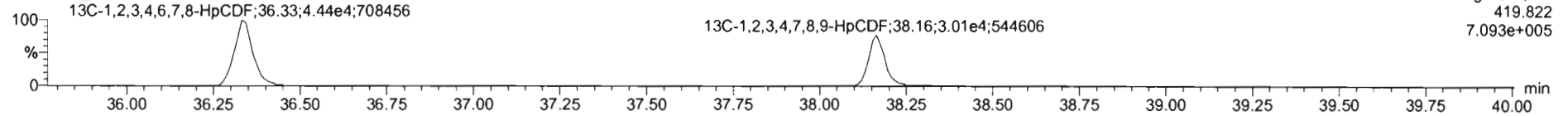


**13C-1,2,3,4,6,7,8-HpCDF**

200309D1\_8

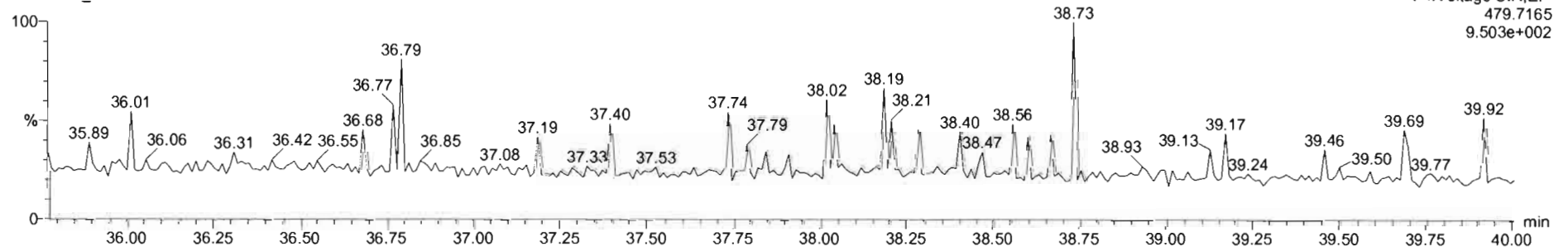


200309D1\_8



**DPE4**

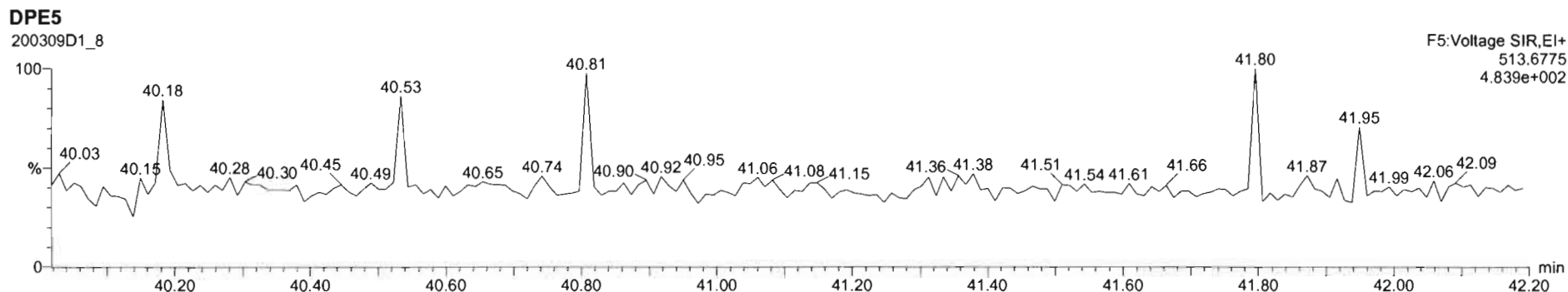
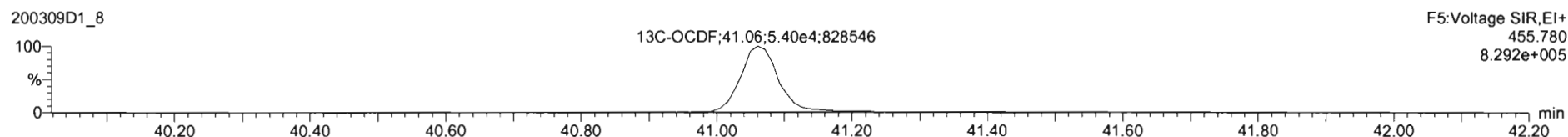
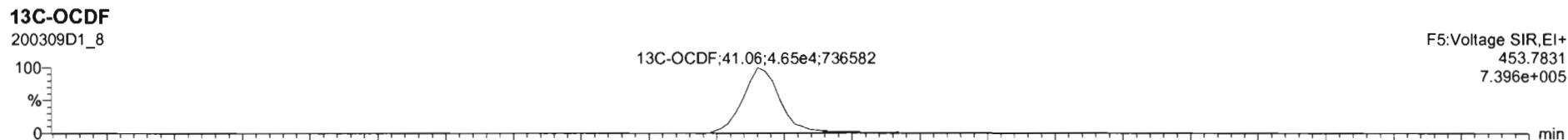
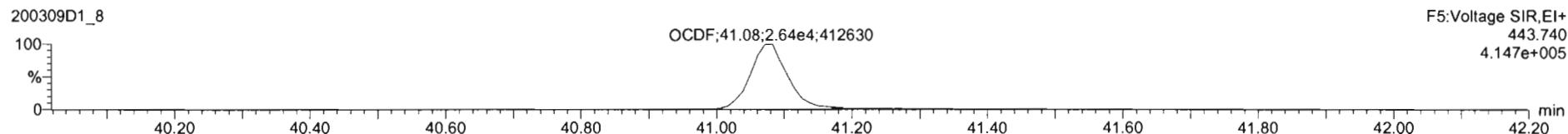
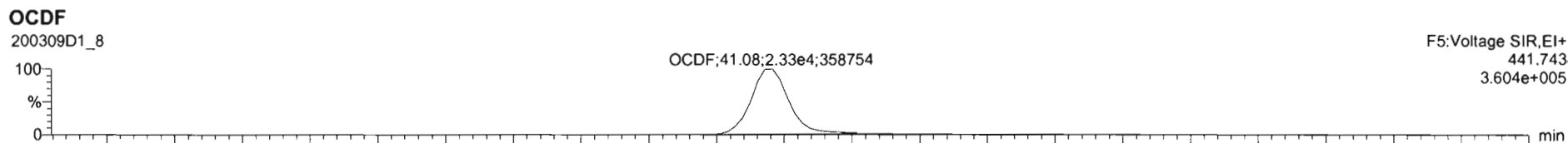
200309D1\_8



Dataset:      U:\VG7.PRO\Results\200309D1\200309D1\_8.qld

Last Altered:    Tuesday, March 10, 2020 09:46:21 Pacific Daylight Time  
Printed:          Tuesday, March 10, 2020 09:53:02 Pacific Daylight Time

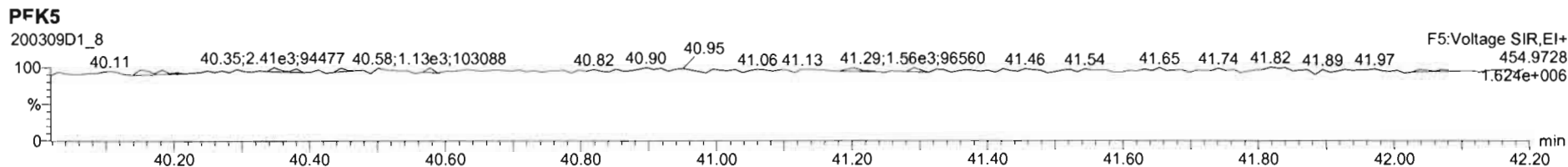
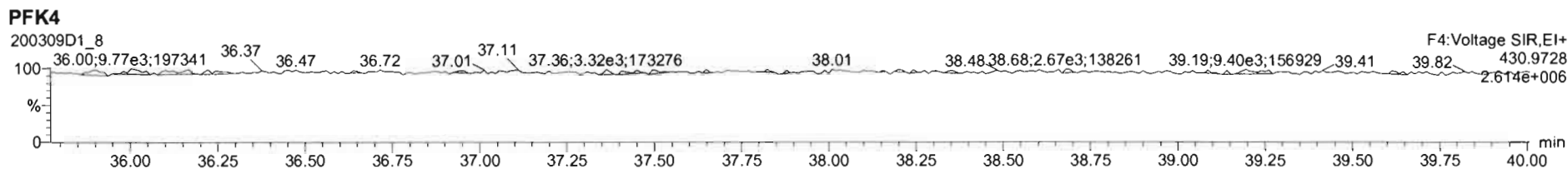
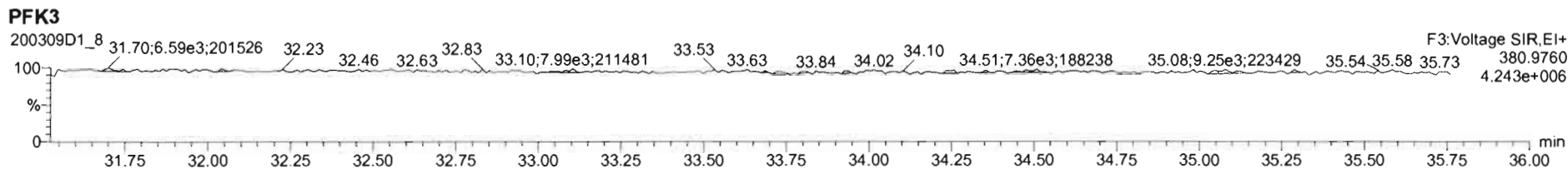
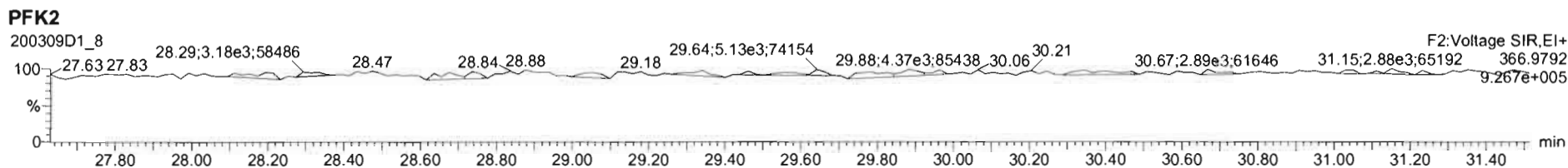
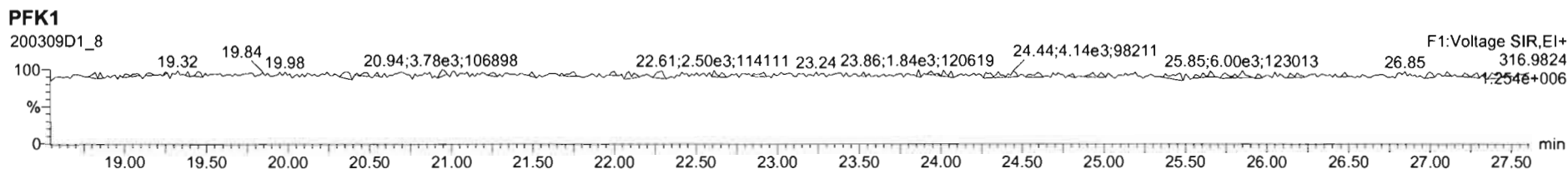
Name: 200309D1\_8, Date: 09-Mar-2020, Time: 17:43:01, ID: SS200309D1-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308



Dataset: U:\VG7.PRO\Results\200309D1\200309D1\_8.qld

Last Altered: Tuesday, March 10, 2020 09:46:21 Pacific Daylight Time  
Printed: Tuesday, March 10, 2020 09:53:02 Pacific Daylight Time

Name: 200309D1\_8, Date: 09-Mar-2020, Time: 17:43:01, ID: SS200309D1-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308



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

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

**Compound name: 13C-1,2,3,4-TCDF**

Response Factor: 1

RRF SD: 7.02167e-017, Relative SD: 7.02167e-015

Response type: Internal Std ( Ref 3 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.70	NO	15.17	1.13e5	1.13e5	100	1.00
2	2 200211D2_4	100	0.71	NO	15.18	1.14e5	1.14e5	100	1.00
3	3 200211D2_5	100	0.74	NO	15.17	1.34e5	1.34e5	100	1.00
4	4 200211D2_6	100	0.72	NO	15.17	1.15e5	1.15e5	100	1.00
5	5 200211D2_7	100	0.73	NO	15.17	1.35e5	1.35e5	100	1.00
6	6 200211D2_8	100	0.73	NO	15.17	1.38e5	1.38e5	100	1.00

**Compound name: 13C-1,2,3,4-TCDD**

Response Factor: 1026.38

RRF SD: 123.841, Relative SD: 12.0658

Response type: External Std, Area

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.79	NO	15.78	1.04e5		102	1040
2	2 200211D2_4	100	0.77	NO	15.78	8.57e4		83.5	857
3	3 200211D2_5	100	0.79	NO	15.78	9.44e4		92.0	944
4	4 200211D2_6	100	0.79	NO	15.78	9.87e4		96.1	987
5	5 200211D2_7	100	0.78	NO	15.78	1.13e5		110	1130
6	6 200211D2_8	100	0.78	NO	15.78	1.20e5		116	1200



Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2\_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

	# Name	Resp	RA	n/y	RRF M...	w/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.982	1.000	17.23	0.22305	89.2	0.0931
2	2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	113.42	113	0.342
3	3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	100.00	100	0.371
4	4 13C-1,2,3,4-TCDD	1.04e5	0.79	NO	1030	1.000	15.78	101.65	102	0.291

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2\_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	6.08e2	0.66	NO	0.982	1.000	17.22	0.54947	110	0.147
2	2 13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	91.711	91.7	0.381
3	3 13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	100.00	100	0.412
4	4 13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1030	1.000	15.78	83.528	83.5	0.324

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2\_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.63e3	0.73	NO	0.982	1.000	17.23	2.0631	103	0.121
2	2 13C-2,3,7,8-TCDF	1.30e5	0.71	NO	1.08	1.000	17.20	89.279	89.3	0.292
3	3 13C-1,2,3,4-TCDF	1.34e5	0.74	NO	1.00	1.000	15.17	100.00	100	0.316
4	4 13C-1,2,3,4-TCDD	9.44e4	0.79	NO	1030	1.000	15.78	92.007	92.0	0.336

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2\_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.15e4	0.75	NO	0.982	1.000	17.23	9.3257	93.3	0.185
2	2 13C-2,3,7,8-TCDF	1.25e5	0.75	NO	1.08	1.000	17.20	100.76	101	0.364
3	3 13C-1,2,3,4-TCDF	1.15e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.394
4	4 13C-1,2,3,4-TCDD	9.87e4	0.79	NO	1030	1.000	15.78	96.149	96.1	0.331

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2\_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	5.76e4	0.74	NO	0.982	1.000	17.23	38.981	97.5	0.158
2	2 13C-2,3,7,8-TCDF	1.51e5	0.71	NO	1.08	1.000	17.20	102.61	103	0.300
3	3 13C-1,2,3,4-TCDF	1.35e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.325
4	4 13C-1,2,3,4-TCDD	1.13e5	0.78	NO	1030	1.000	15.78	110.19	110	0.311

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

**Name: 200211D2\_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307**

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	4.81e5	0.73	NO	0.982	1.000	17.23	321.06	107	0.243
2	2 13C-2,3,7,8-TCDF	1.52e5	0.72	NO	1.08	1.000	17.20	102.22	102	0.295
3	3 13C-1,2,3,4-TCDF	1.38e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.319
4	4 13C-1,2,3,4-TCDD	1.20e5	0.78	NO	1030	1.000	15.78	116.47	116	0.322

Dataset: Untitled

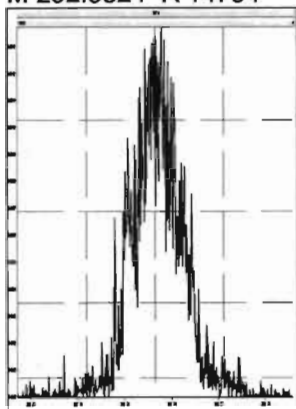
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Printed: Wednesday, February 12, 2020 10:45:35 Pacific Standard Time

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

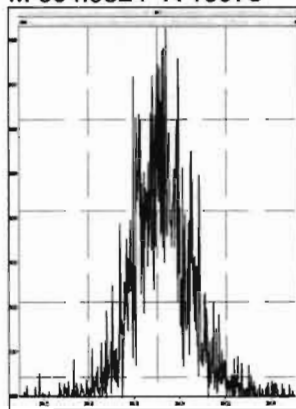
Compound name: 2,3,7,8-TCDF

	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

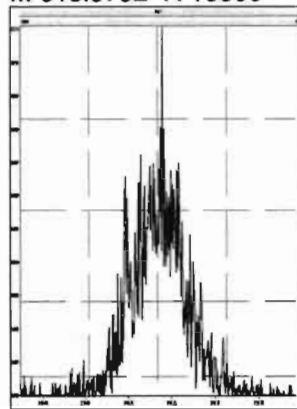
M 292.9824 R 14754



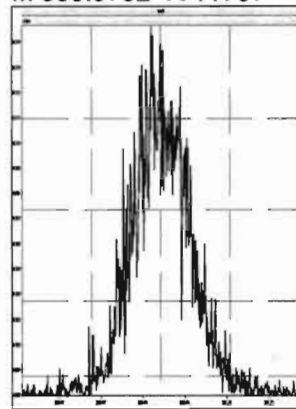
M 304.9824 R 15978



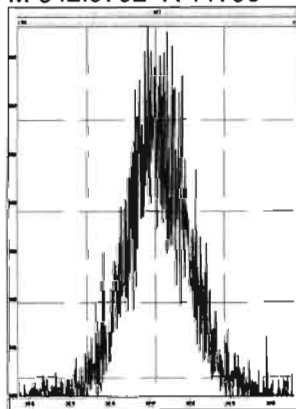
M 318.9792 R 15503



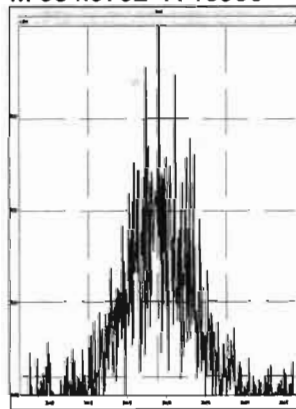
M 330.9792 R 11737



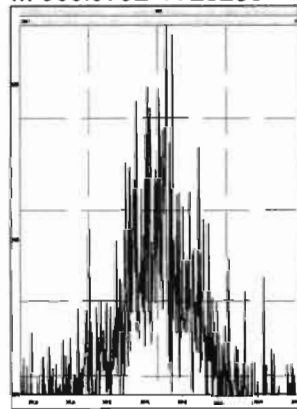
M 342.9792 R 11796



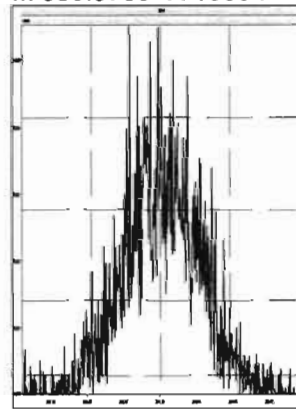
M 354.9792 R 15966



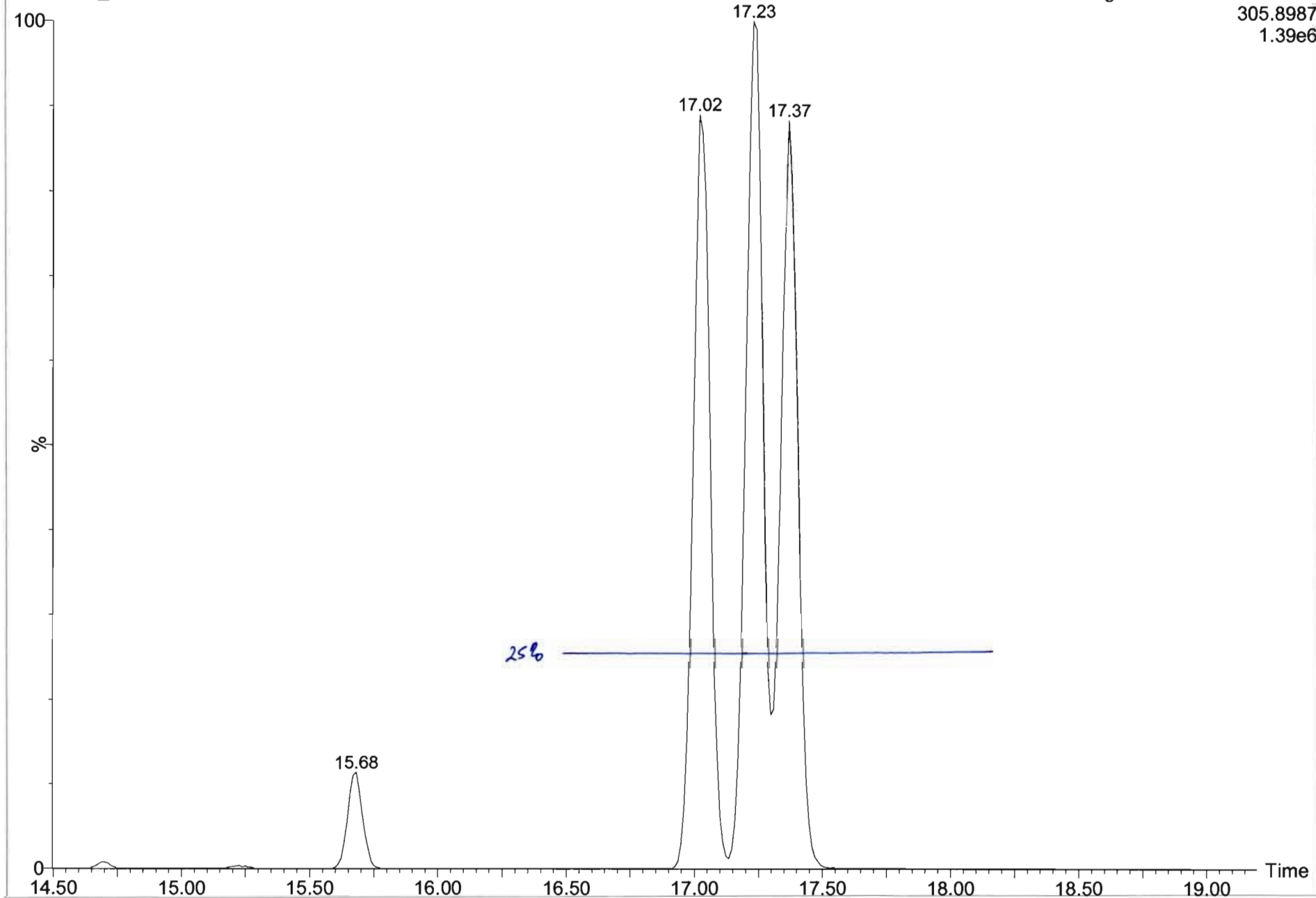
M 366.9792 R 28256



M 380.9760 R 13094







Dataset: U:\VG7.PRO\Results\200211D2\200111D2\_2.qld

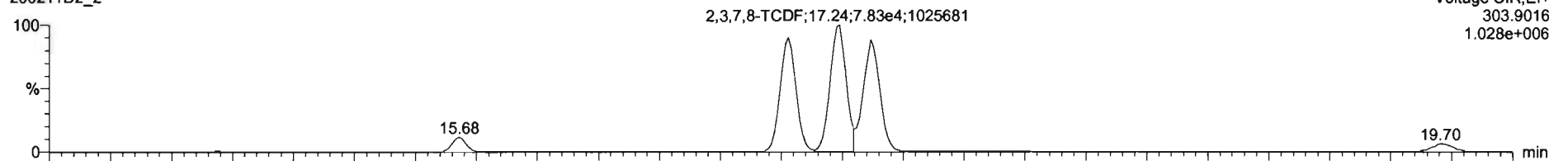
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Name: 200211D2\_2, Date: 11-Feb-2020, Time: 20:28:53, ID: CP200211D2-1 DB-225 CPSM, Description: DB-225 CPSM

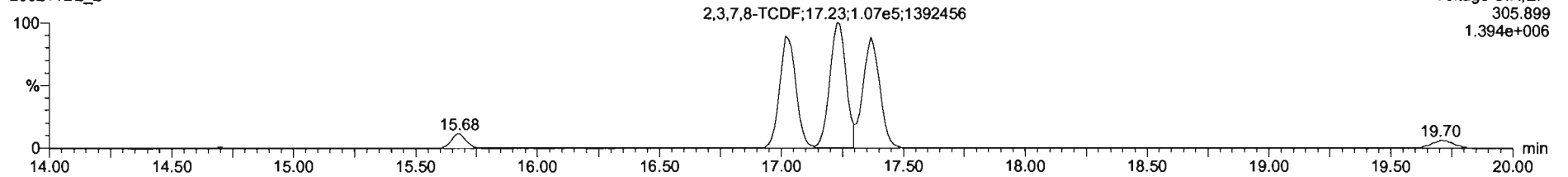
2,3,7,8-TCDF

200211D2\_2



Voltage SIR,EI+  
303.9016  
1.028e+006

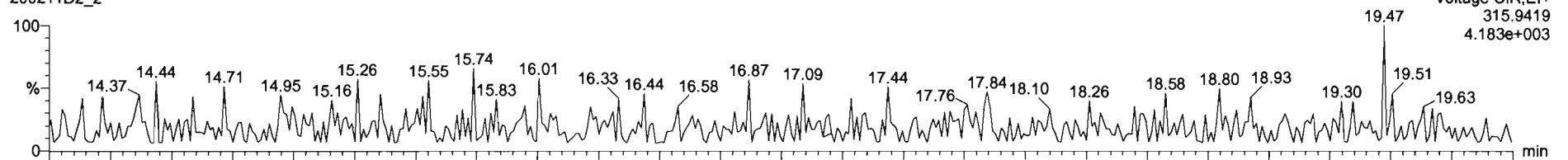
200211D2\_2



Voltage SIR,EI+  
305.899  
1.394e+006

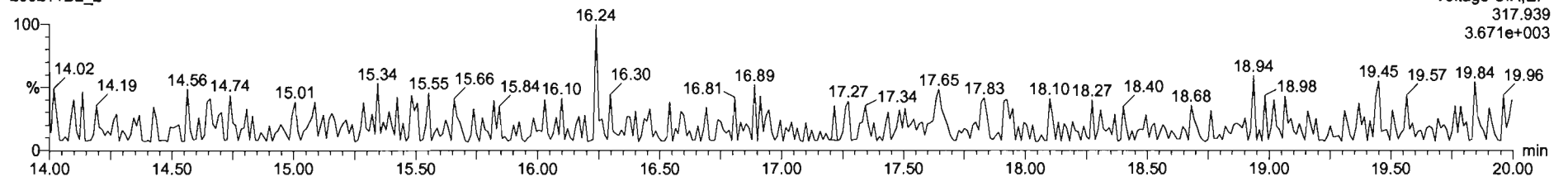
13C-2,3,7,8-TCDF

200211D2\_2



Voltage SIR,EI+  
315.9419  
4.183e+003

200211D2\_2



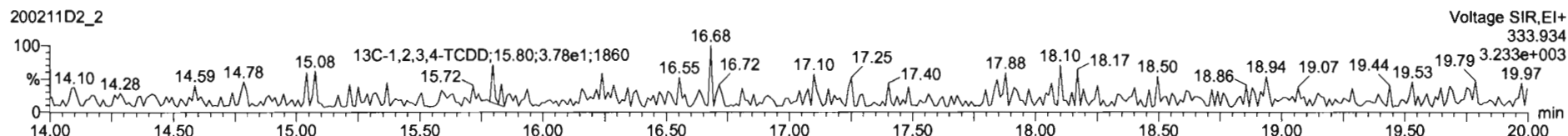
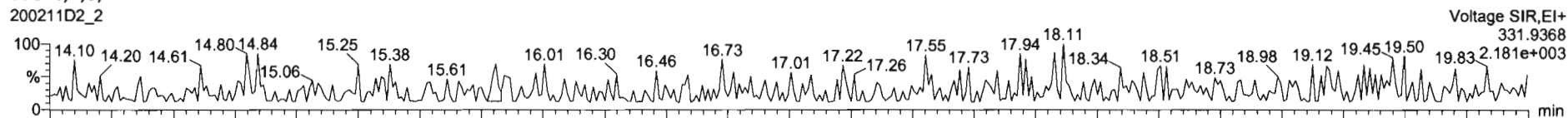
Voltage SIR,EI+  
317.939  
3.671e+003

Dataset: U:\VG7.PRO\Results\200211D2\200111D2\_2.qld

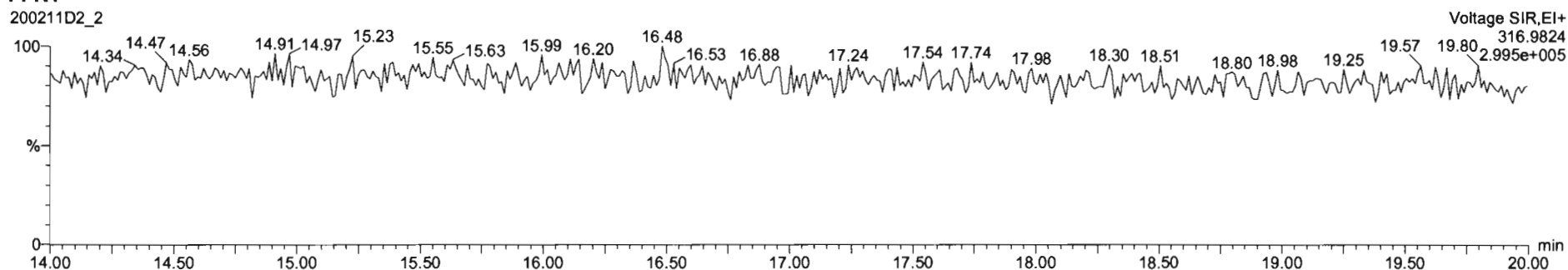
Last Altered: Wednesday, February 12, 2020 10:13:49 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:15:34 Pacific Standard Time

Name: 200211D2\_2, Date: 11-Feb-2020, Time: 20:28:53, ID: CP200211D2-1 DB-225 CPSM, Description: DB-225 CPSM

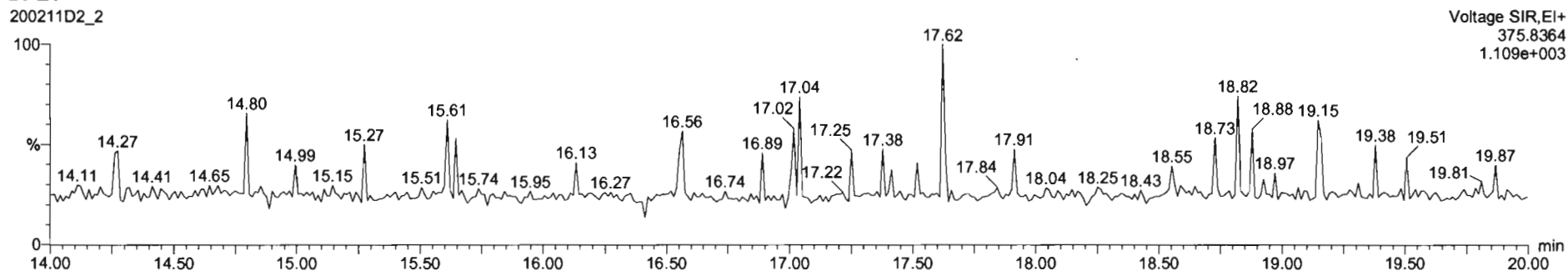
13C-1,2,3,4-TCDD



PFK1



DPE1



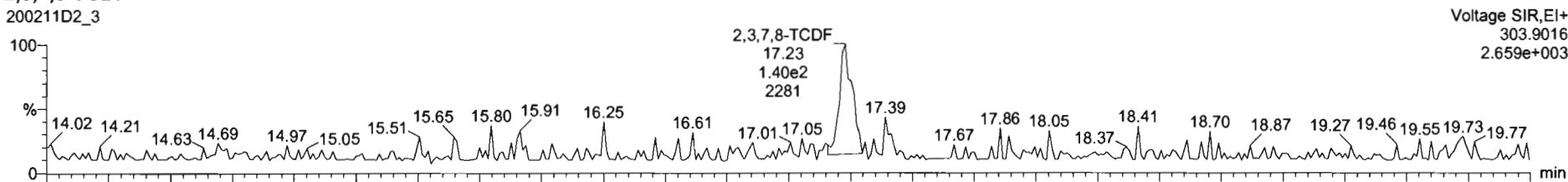
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

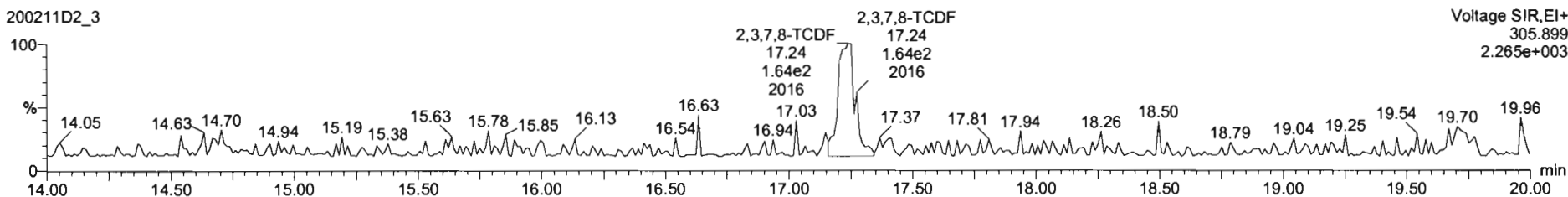
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Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvfg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2\_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

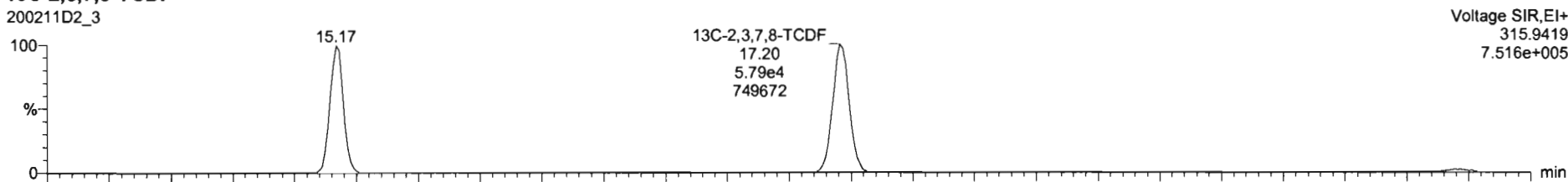
2,3,7,8-TCDF  
200211D2\_3



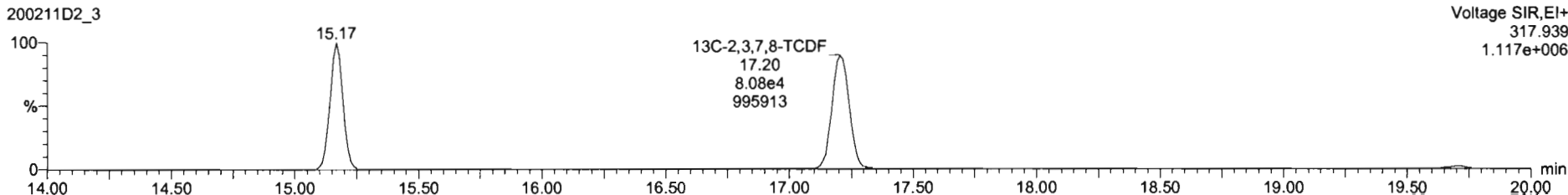
200211D2\_3



13C-2,3,7,8-TCDF  
200211D2\_3



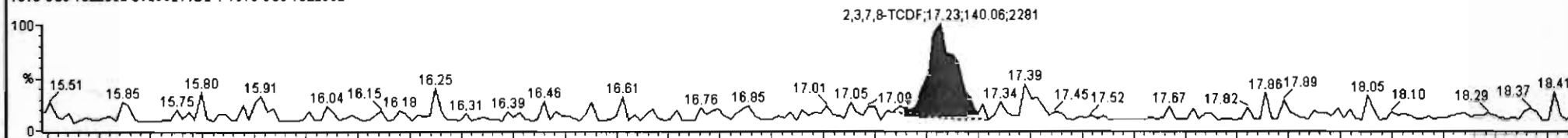
200211D2\_3



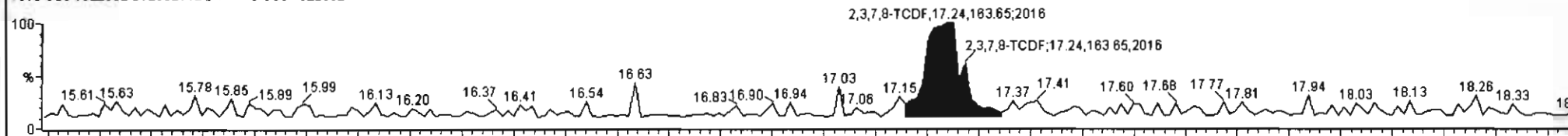
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.98	1.000	17.23	1.001	0.223	89.2	0.0831	0.223
2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	1.134	113	113	0.342	
3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	1.000	100	100	0.371	
4 13C-1,2,3,4-TCDF	1.04e5	0.79	NO	1026.38	1.000	15.78	0.000	102	102	0.291	
5 PFOS					1.000						
6 DPE1					1.000						

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

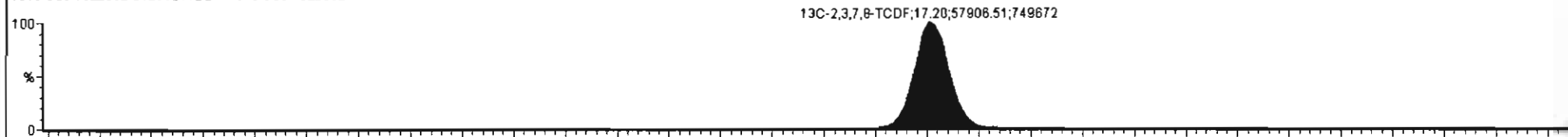
200211D2\_3  
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



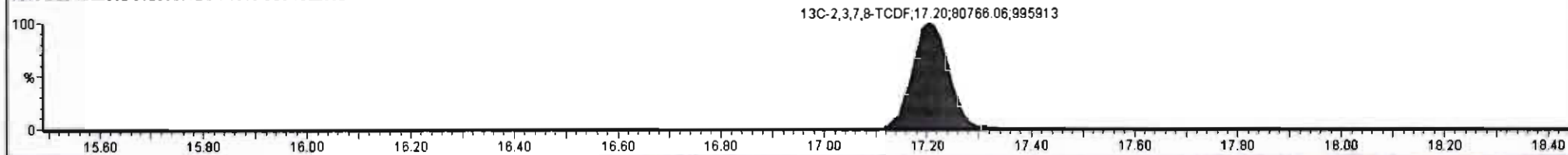
200211D2\_3  
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2\_3  
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2\_3  
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



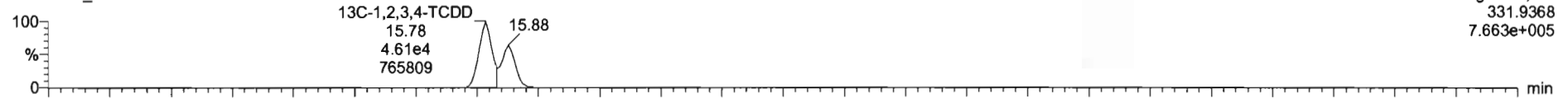
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

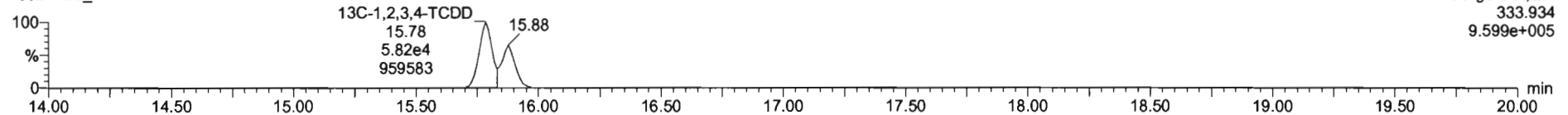
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13C-1,2,3,4-TCDD

200211D2\_3

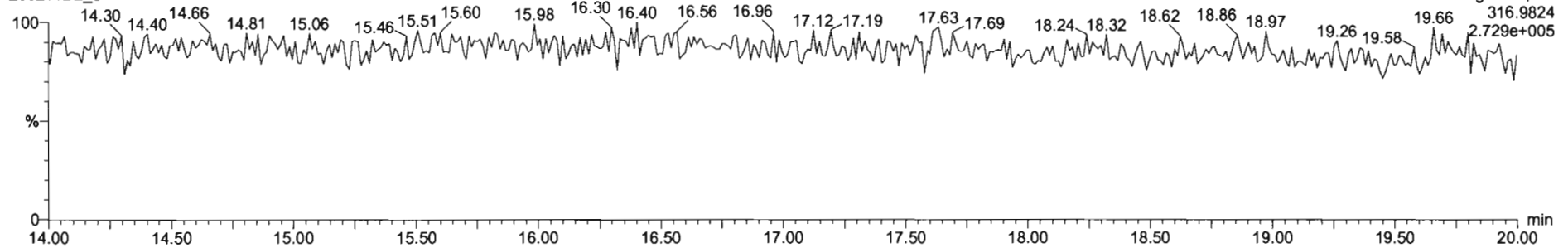


200211D2\_3



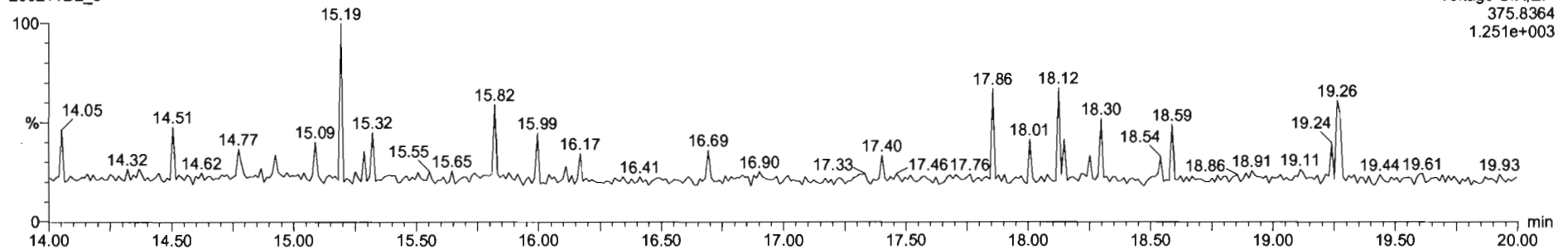
PFK1

200211D2\_3



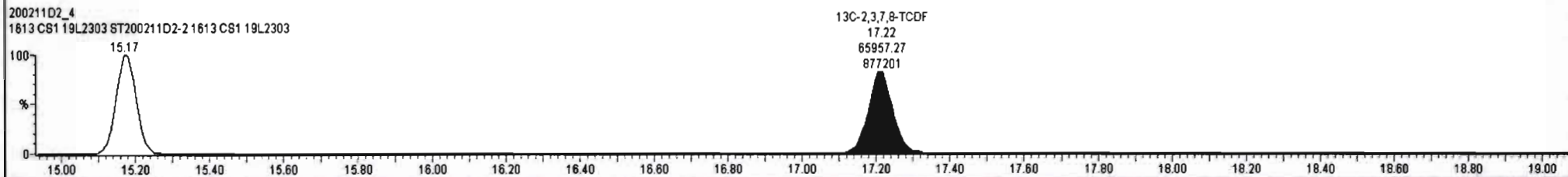
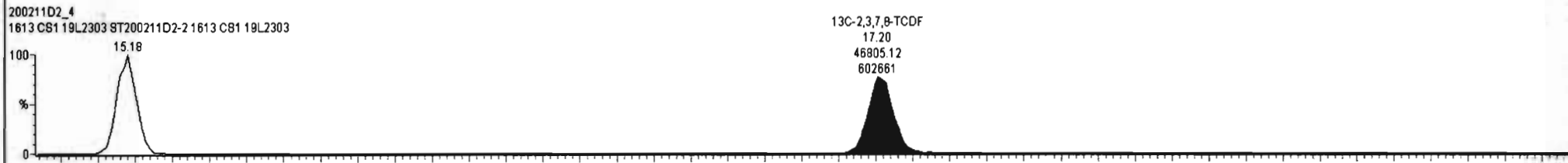
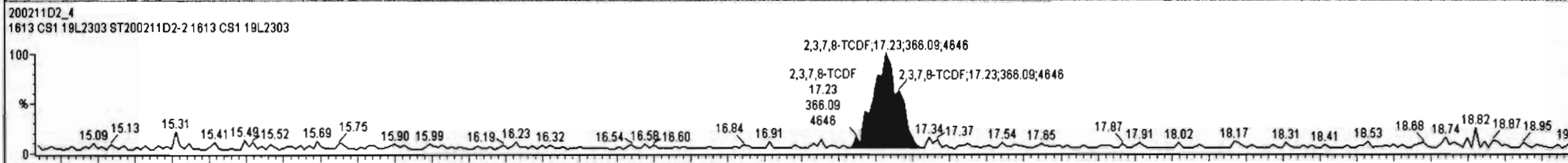
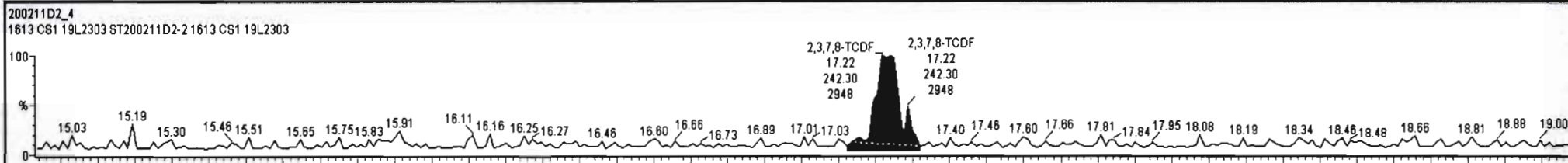
DPE1

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								



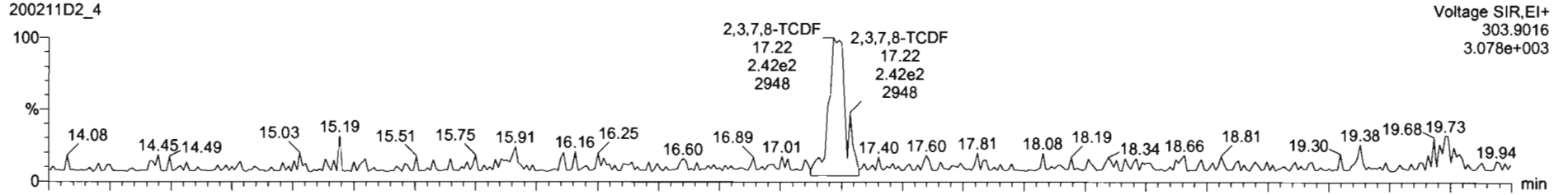
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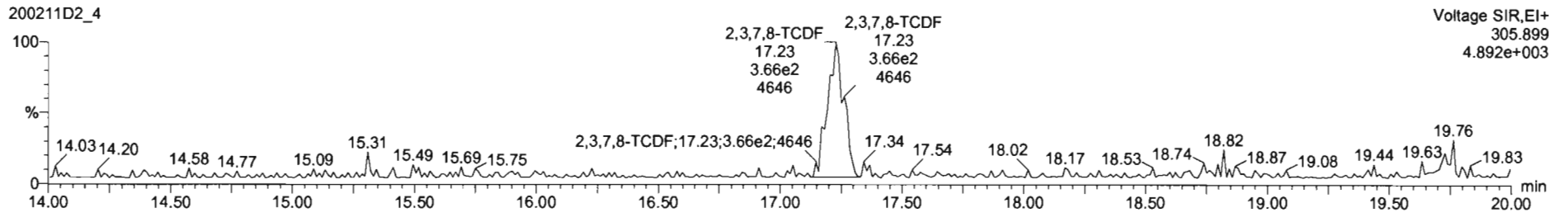
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**2,3,7,8-TCDF**

200211D2\_4

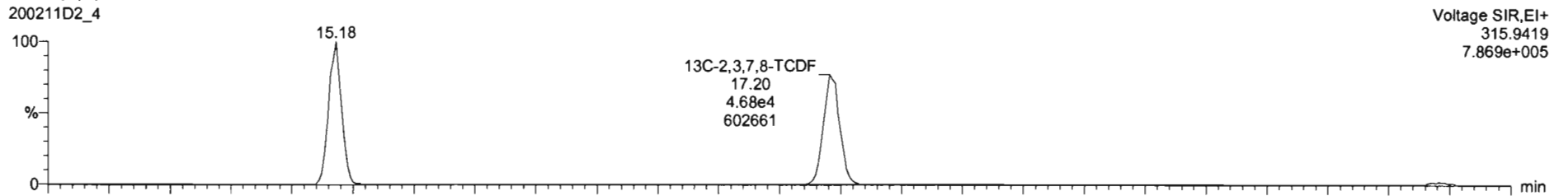


200211D2\_4

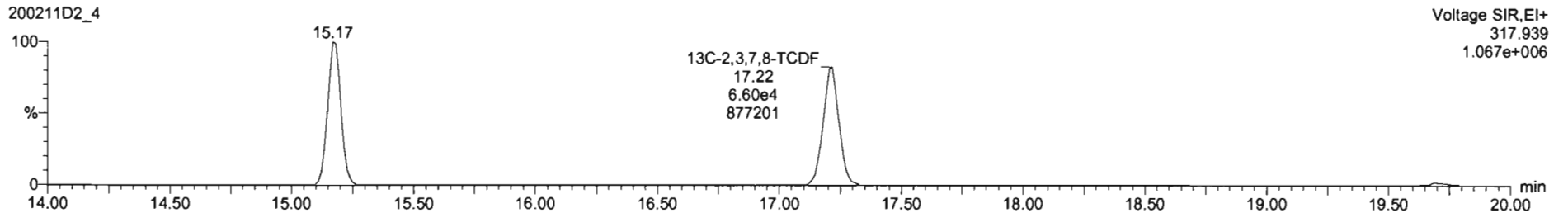


**13C-2,3,7,8-TCDF**

200211D2\_4



200211D2\_4





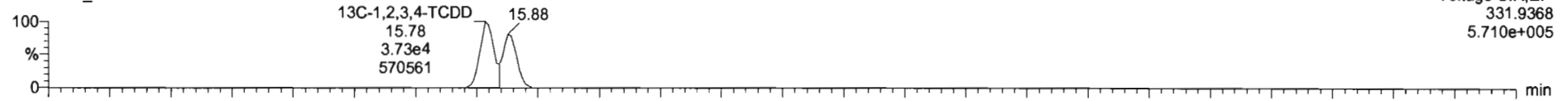
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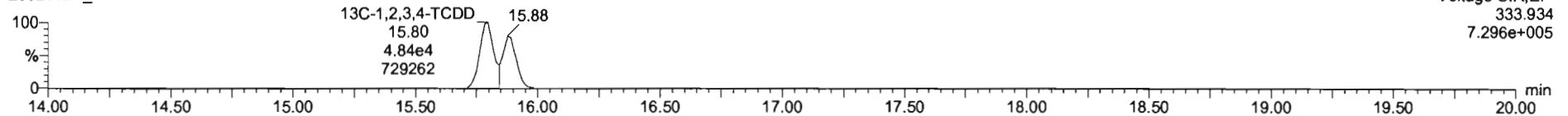
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**13C-1,2,3,4-TCDD**

200211D2\_4

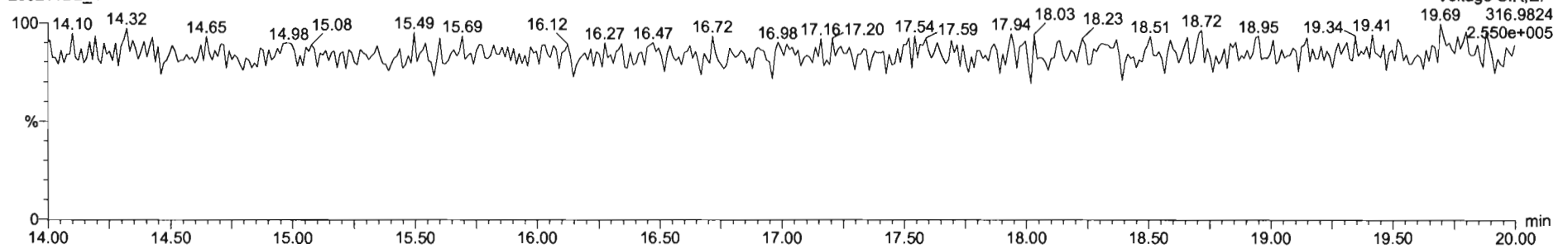


200211D2\_4



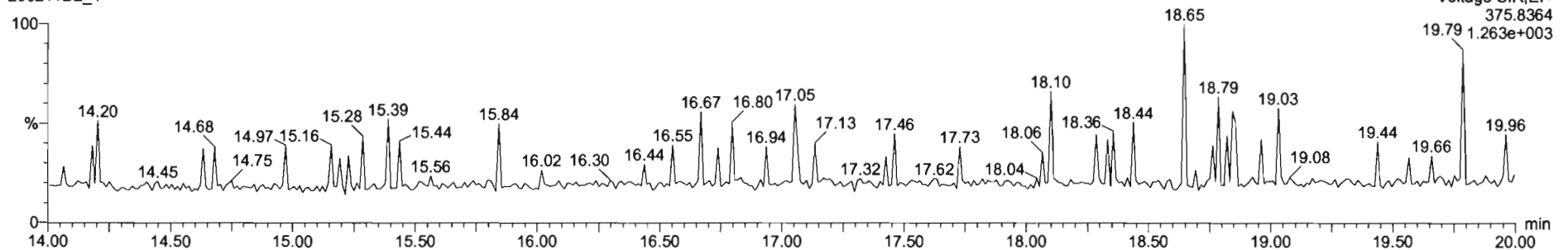
**PFK1**

200211D2\_4



**DPE1**

200211D2\_4



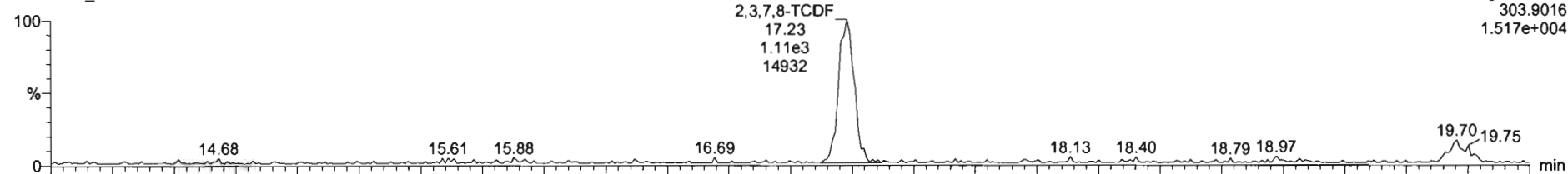
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

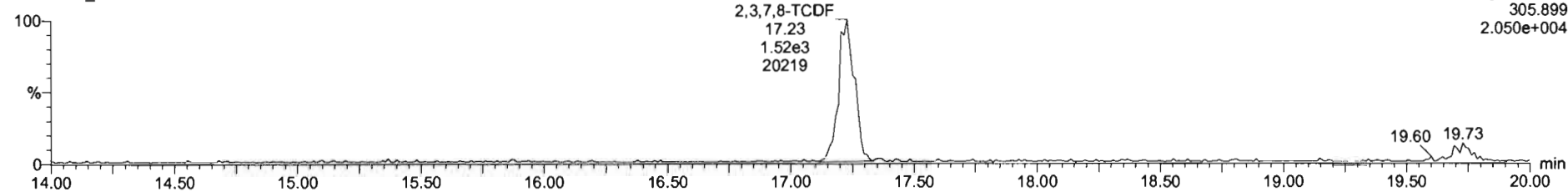
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**2,3,7,8-TCDF**

200211D2\_5

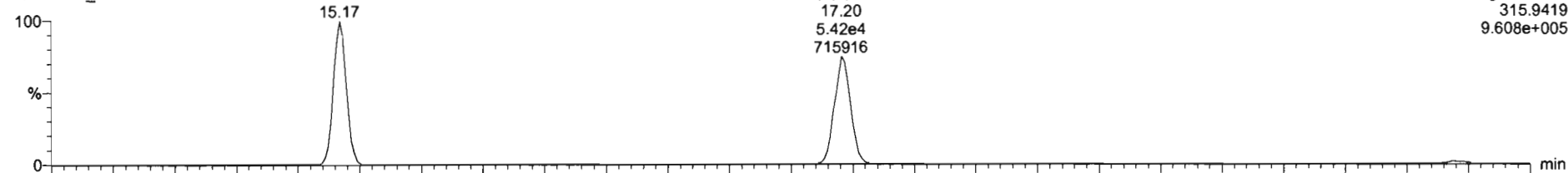


200211D2\_5

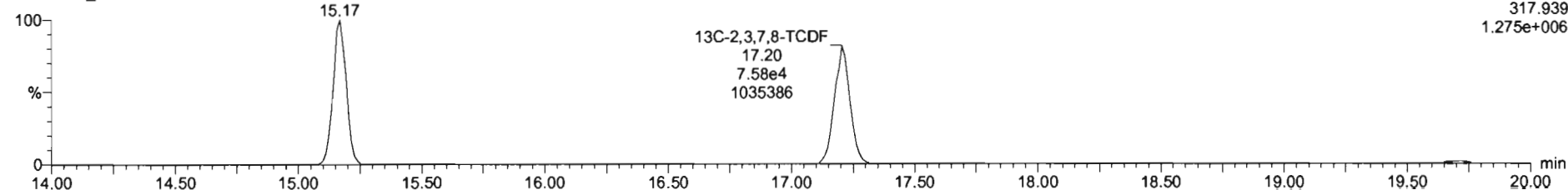


**13C-2,3,7,8-TCDF**

200211D2\_5



200211D2\_5

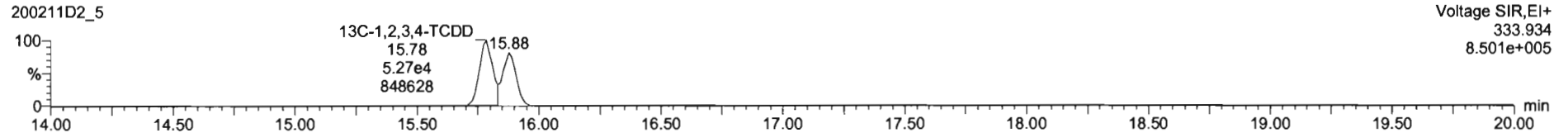
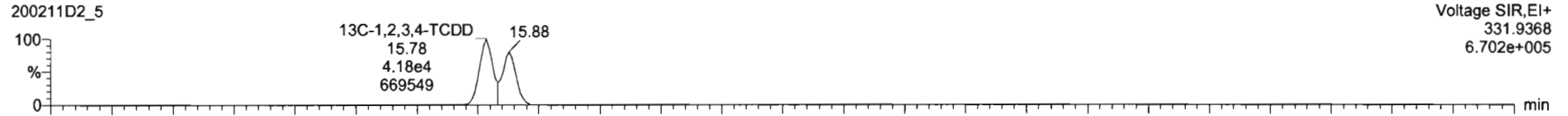


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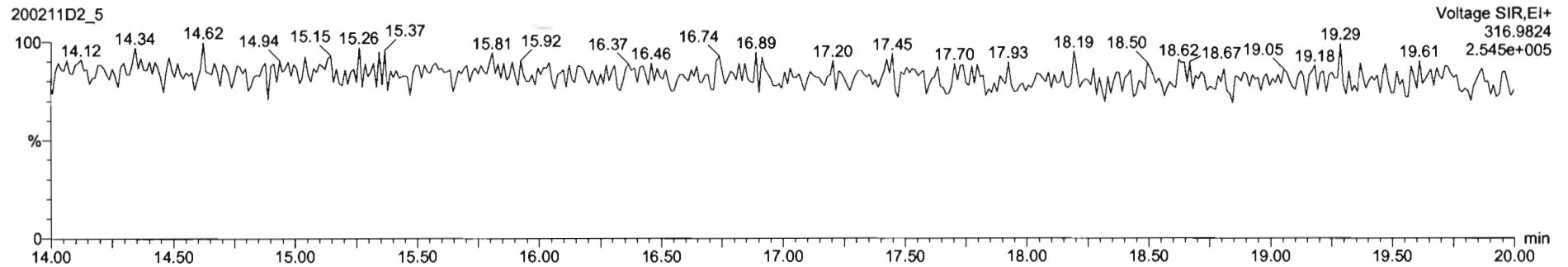
Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2\_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

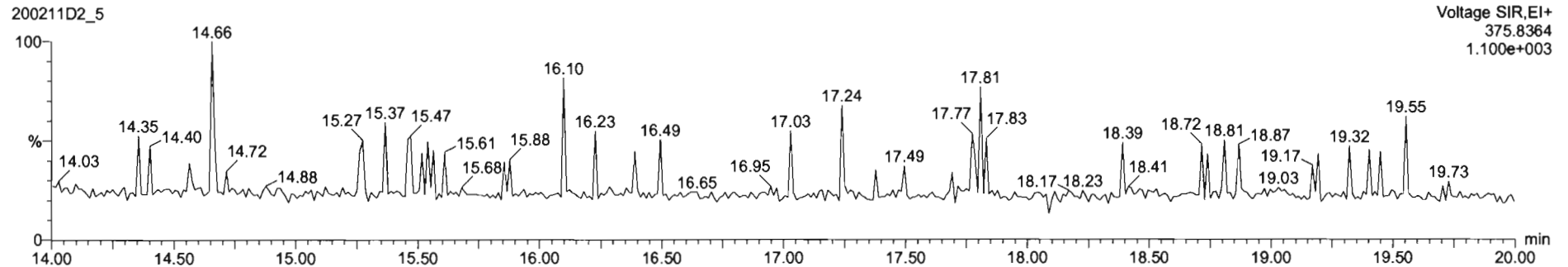
13C-1,2,3,4-TCDD



PFK1



DPE1



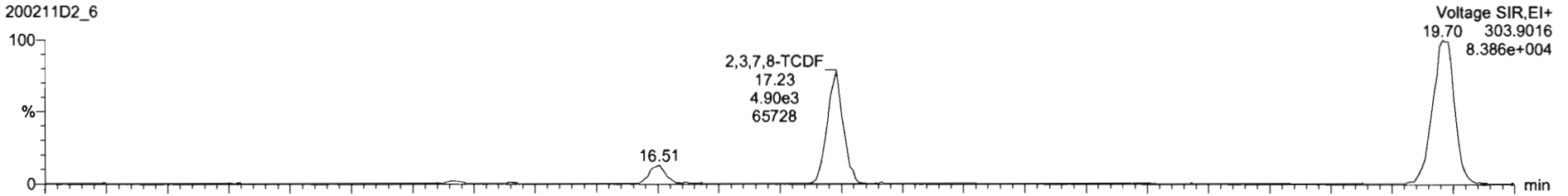
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

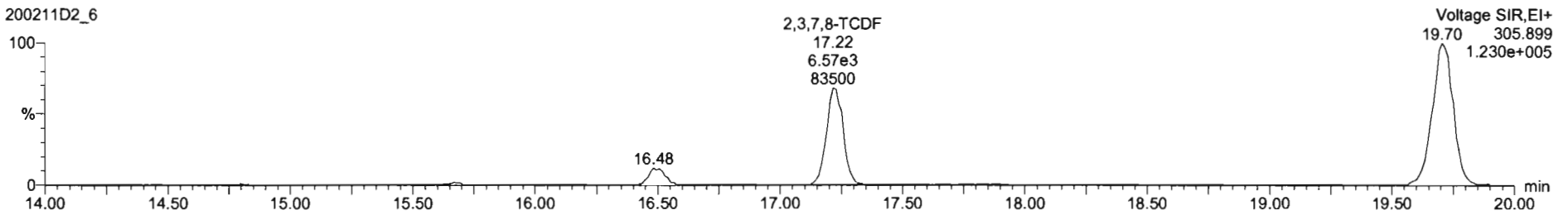
Name: 200211D2\_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

**2,3,7,8-TCDF**

200211D2\_6

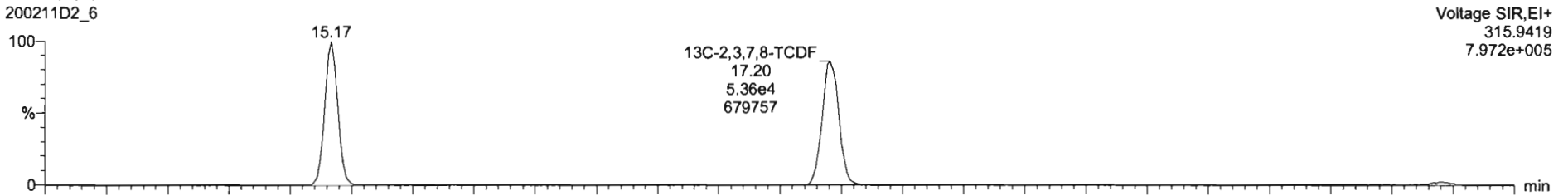


200211D2\_6

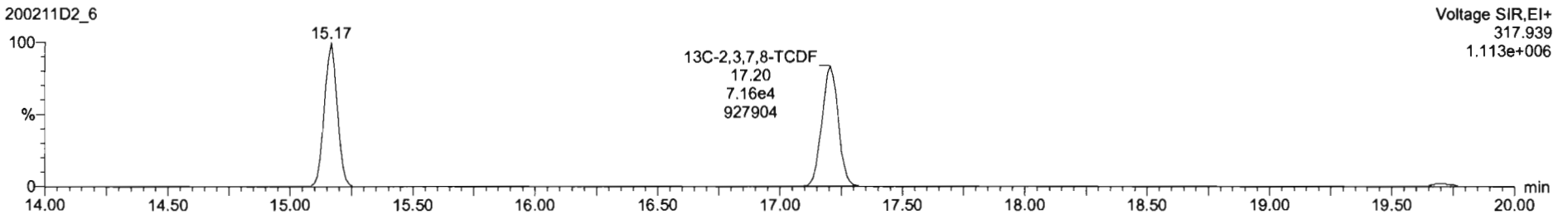


**13C-2,3,7,8-TCDF**

200211D2\_6



200211D2\_6



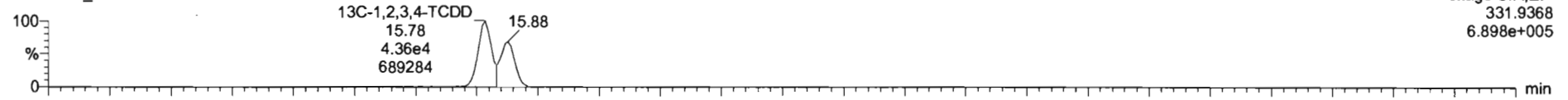
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

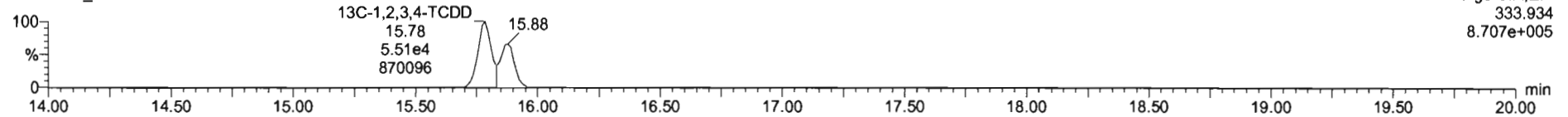
Name: 200211D2\_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200211D2\_6

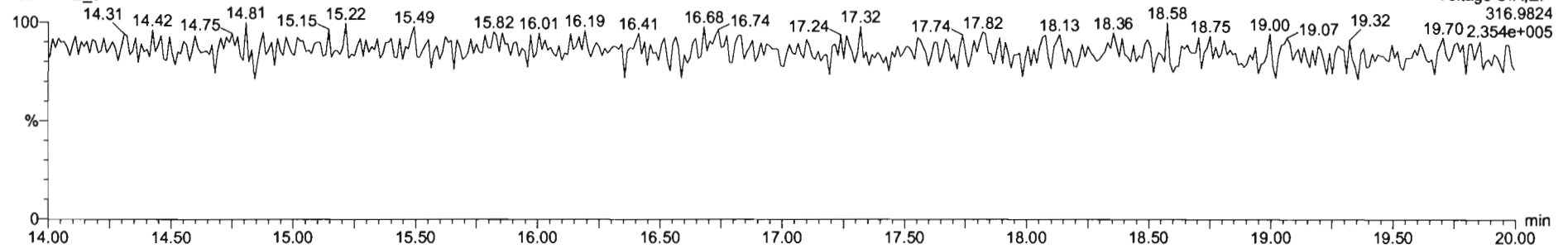


200211D2\_6



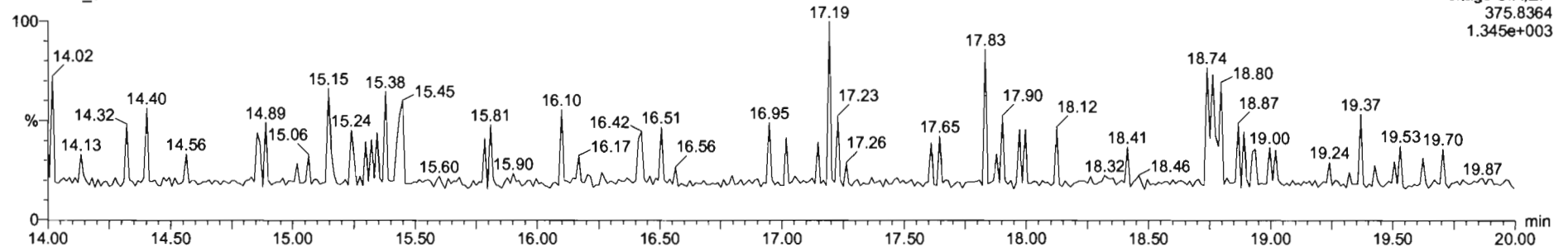
PFK1

200211D2\_6



DPE1

200211D2\_6



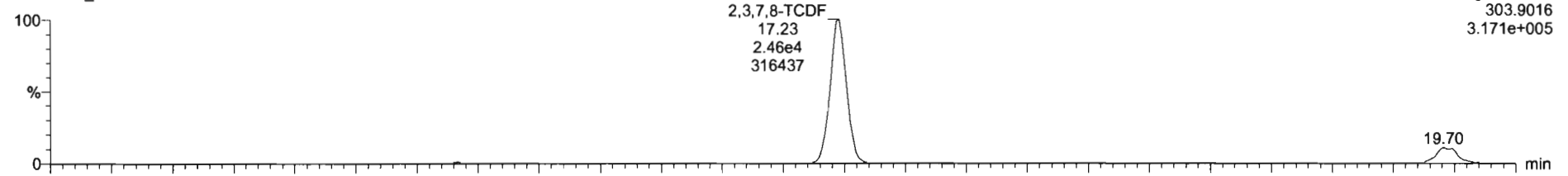
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

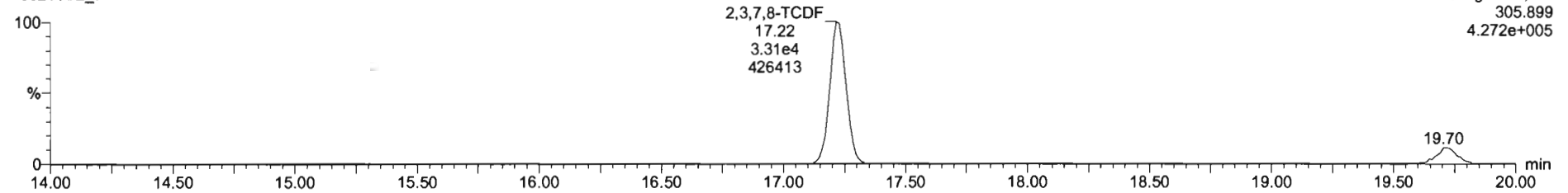
Name: 200211D2\_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

**2,3,7,8-TCDF**

200211D2\_7

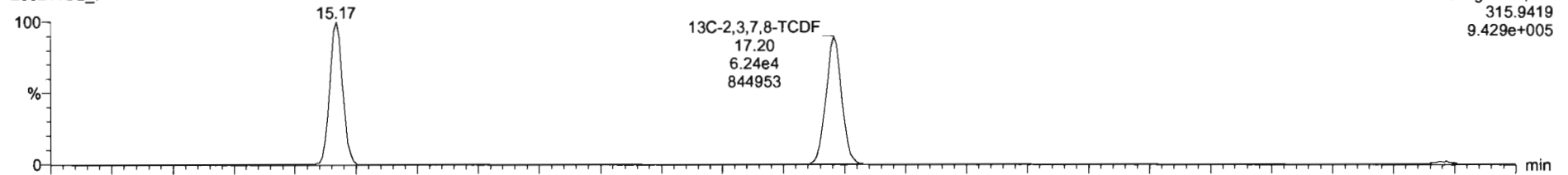


200211D2\_7

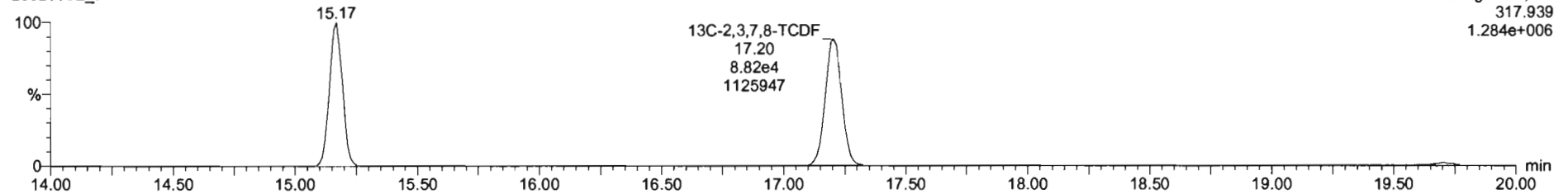


**13C-2,3,7,8-TCDF**

200211D2\_7



200211D2\_7



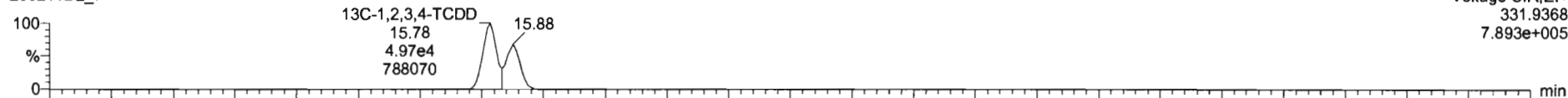
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

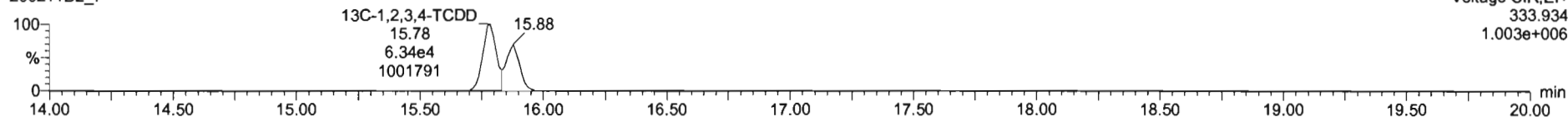
Name: 200211D2\_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200211D2\_7

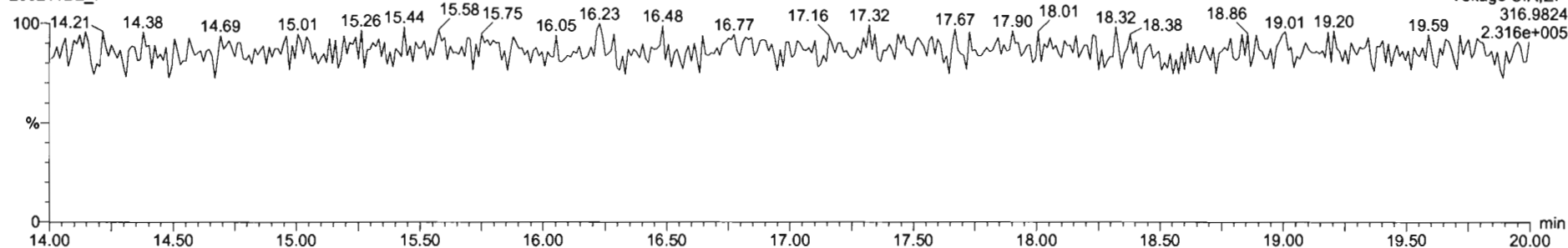


200211D2\_7



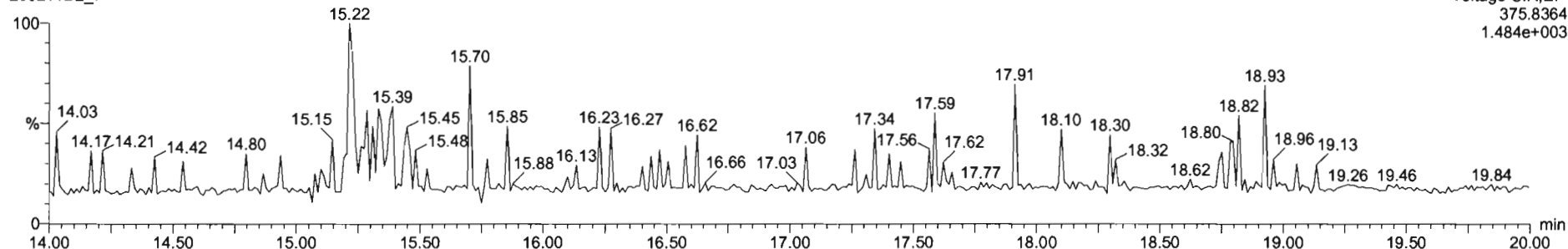
**PFK1**

200211D2\_7



**DPE1**

200211D2\_7



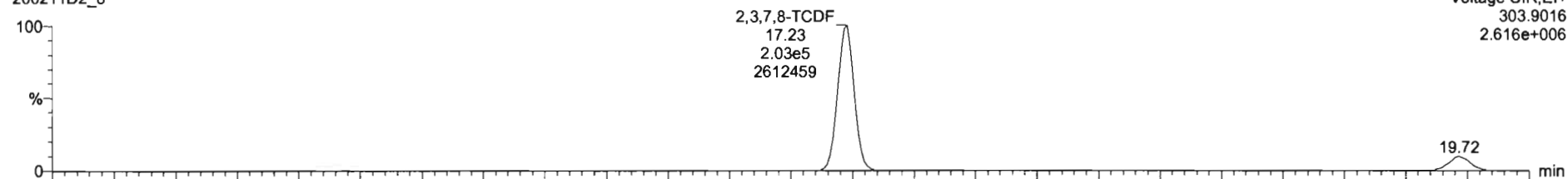
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

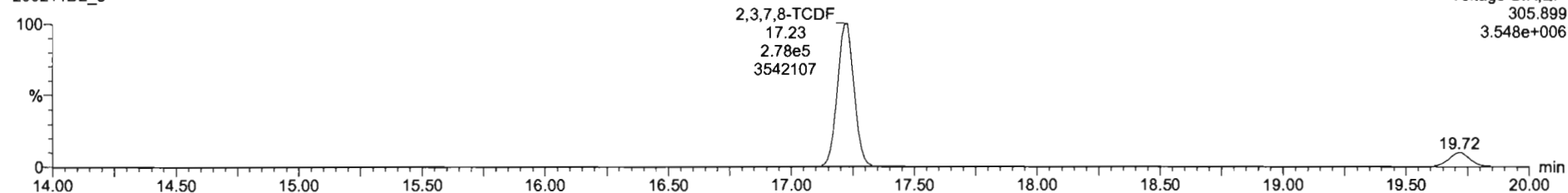
Name: 200211D2\_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

**2,3,7,8-TCDF**

200211D2\_8

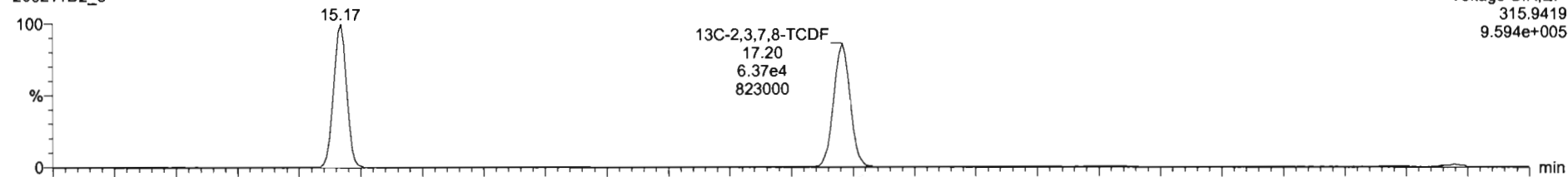


200211D2\_8

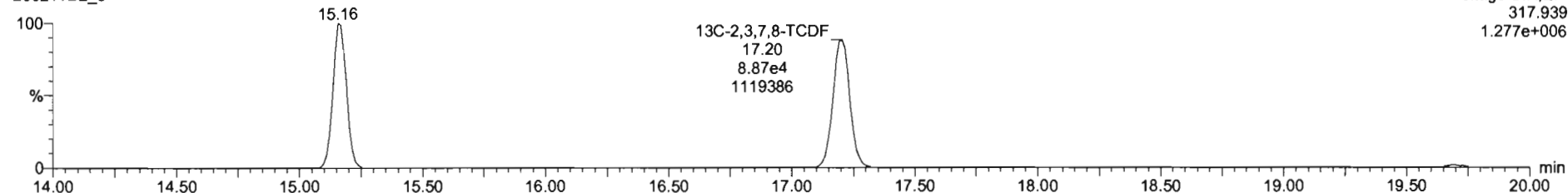


**13C-2,3,7,8-TCDF**

200211D2\_8



200211D2\_8





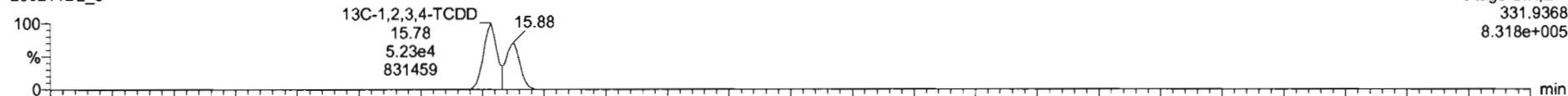
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

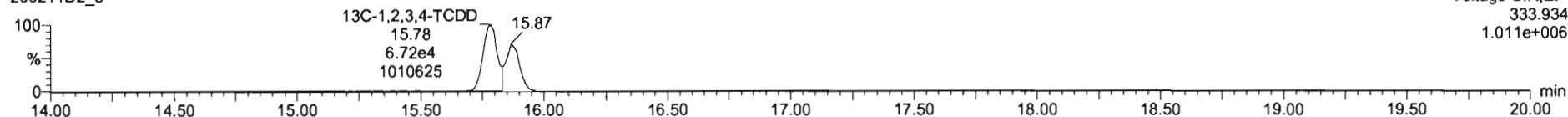
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13C-1,2,3,4-TCDD

200211D2\_8

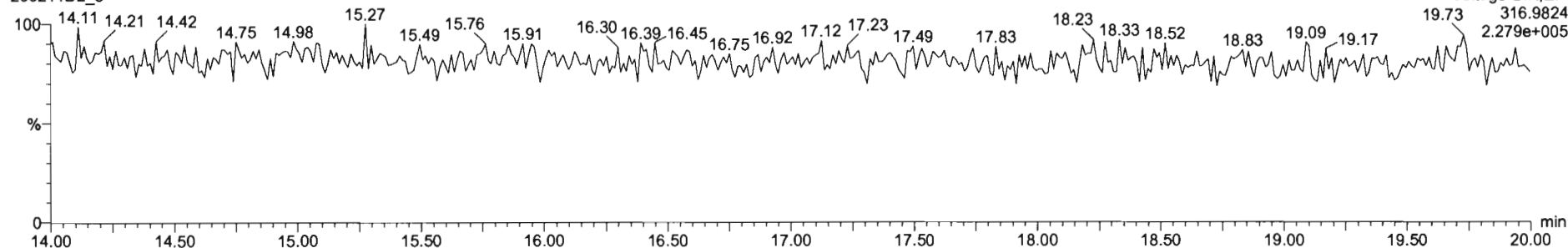


200211D2\_8



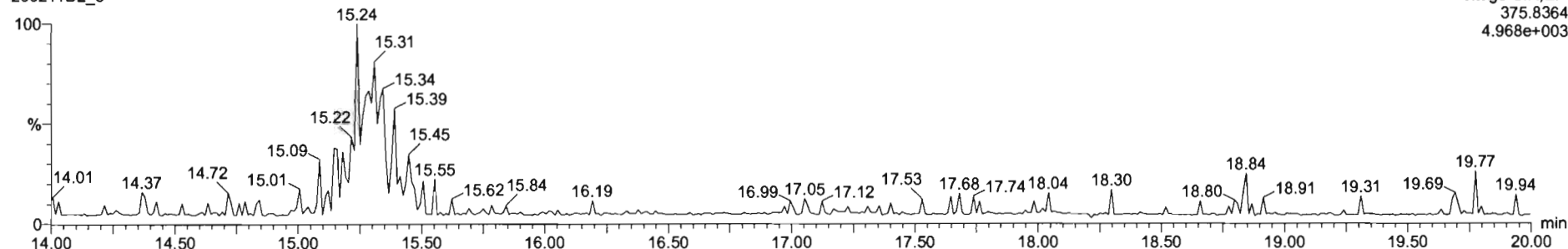
PFK1

200211D2\_8

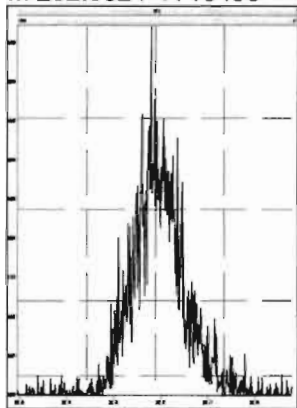


DPE1

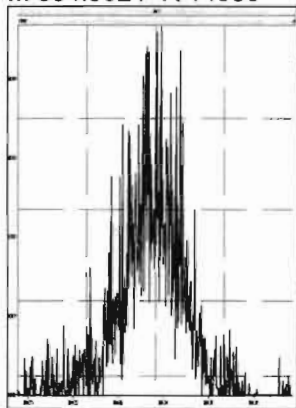
200211D2\_8



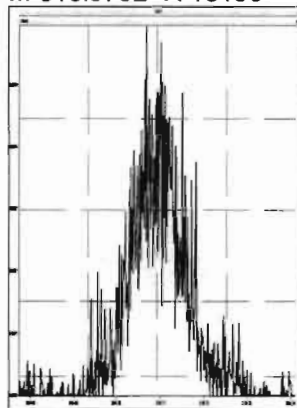
M 292.9824 R 13493



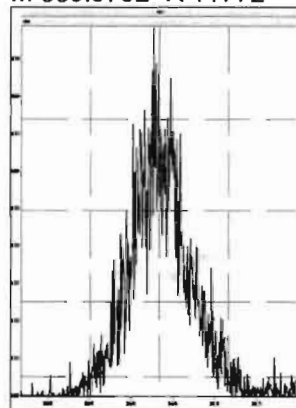
M 304.9824 R 14983



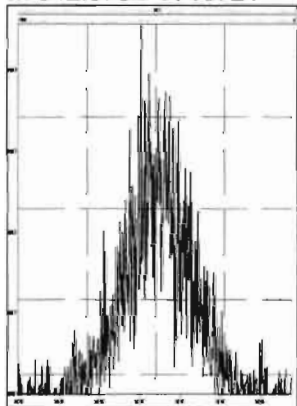
M 318.9792 R 15196



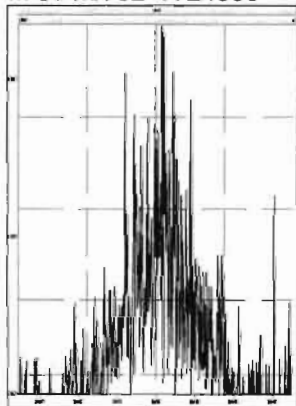
M 330.9792 R 11772



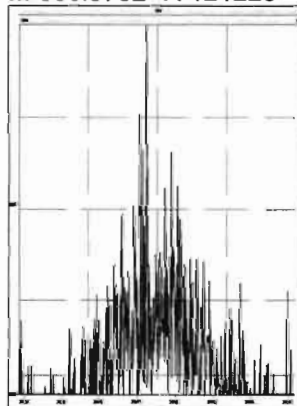
M 342.9792 R 13721



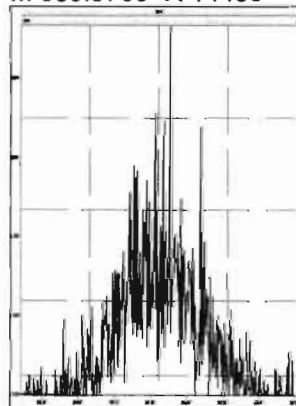
M 354.9792 R 24553



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

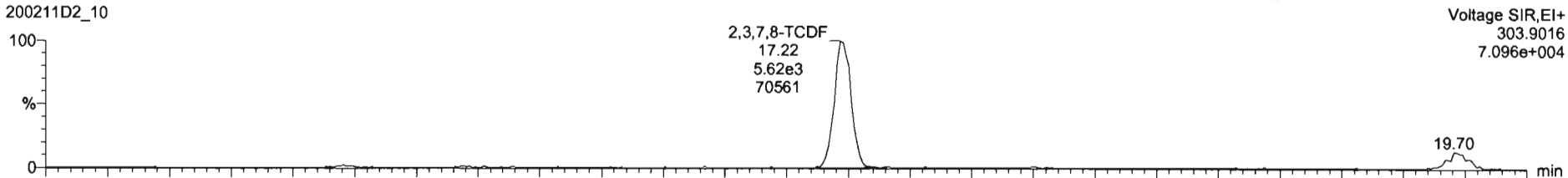
Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

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

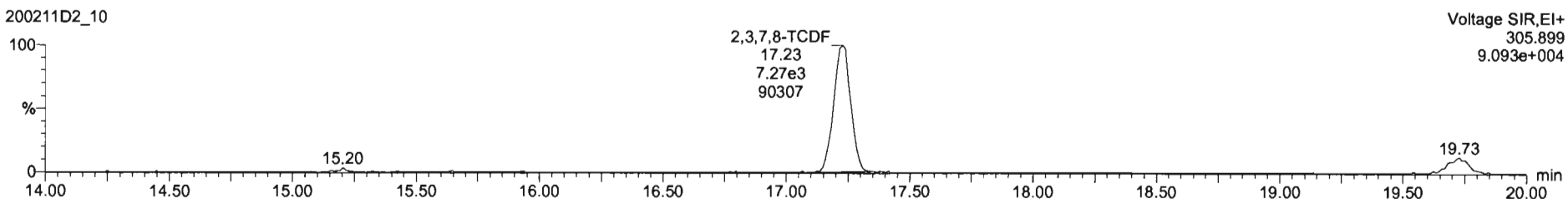
Name: 200211D2\_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

**2,3,7,8-TCDF**

200211D2\_10

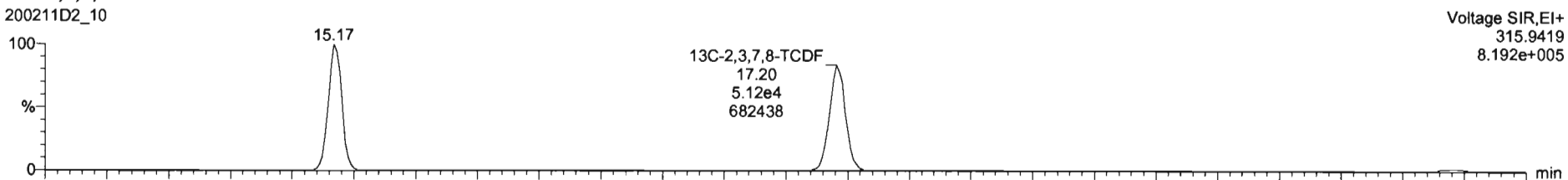


200211D2\_10

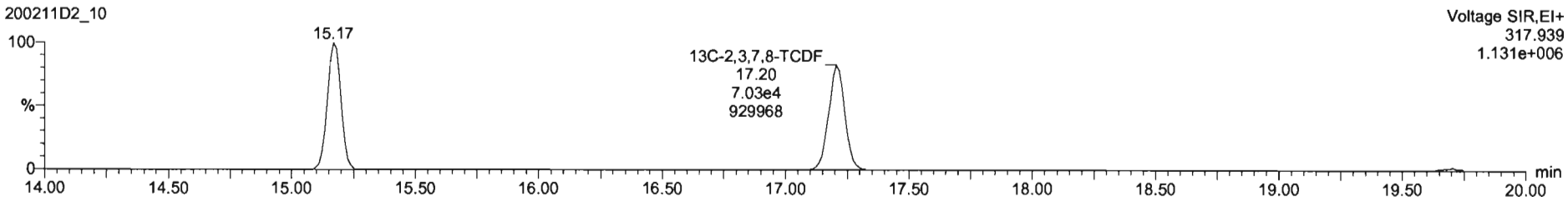


**13C-2,3,7,8-TCDF**

200211D2\_10



200211D2\_10



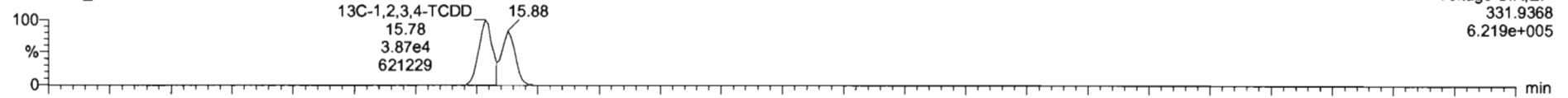
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

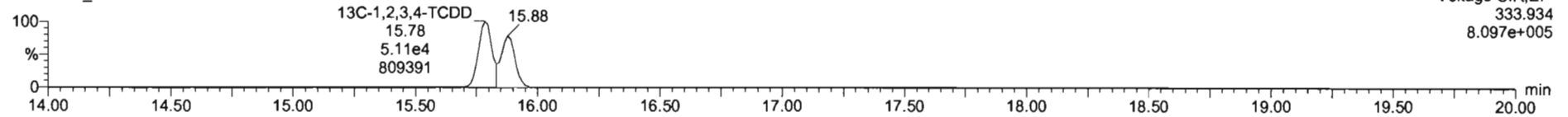
Name: 200211D2\_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200211D2\_10

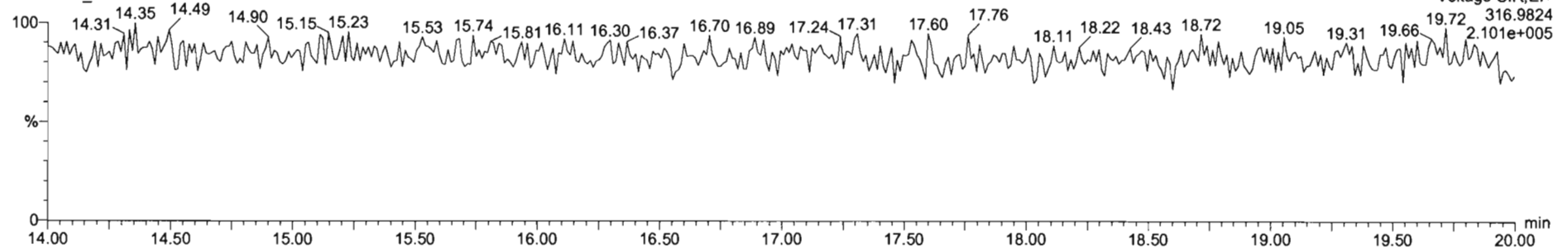


200211D2\_10



**PFK1**

200211D2\_10



**DPE1**

200211D2\_10

