



July 16, 2020

**Vista Work Order No. 2000964**

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. 2000964**

### **Case Narrative**

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

Fourteen sediment samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The EPA Method 1668 analysis for sample "PDI-148SC-A-00-01-200427" was assigned to Vista Work Order No. 2000967 and sample "PDI-153SC-A-00-01-200427" was assigned to Vista Work Order No. 2000977. The EPA Method 1613 analysis for samples "PDI-153SC-A-00-01-200427", "PDI-153SC-A-01-02-200427", "PDI-153SC-A-02-03-200427", "PDI-153SC-A-03-04-200427" and "PDI-153SC-A-04-05-200427" were assigned to Vista Work Order No. 2000976.

#### **Analytical Notes:**

##### **EPA Method 1613B**

The 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-148SC-A-06-07-200427". The RPD was outside of the acceptance criteria for 1,2,3,4,6,7,8-HpCDD.

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

## TABLE OF CONTENTS

Case Narrative.....	1
Table of Contents.....	3
Sample Inventory.....	4
Analytical Results.....	5
Qualifiers.....	19
Certifications.....	20
Sample Receipt.....	23
Extraction Information.....	28
Sample Data - EPA Method 1613.....	35
Confirmation.....	400
Continuing Calibration.....	407
Initial Calibration.....	488

# Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2000964-01	PDI-1148SC-A-07-08-200427	27-Apr-20 09:16	28-Apr-20 09:04	Amber Glass, 120 mL
2000964-02	PDI-148SC-A-00-01-200427	27-Apr-20 09:13	28-Apr-20 09:04	Amber Glass, 120 mL
2000964-03	PDI-148SC-A-01-02-200427	27-Apr-20 09:13	28-Apr-20 09:04	Amber Glass, 120 mL
2000964-04	PDI-148SC-A-02-03-200427	27-Apr-20 09:13	28-Apr-20 09:04	Amber Glass, 120 mL
2000964-05	PDI-148SC-A-03-04-200427	27-Apr-20 09:13	28-Apr-20 09:04	Amber Glass, 120 mL
2000964-06	PDI-148SC-A-04-05-200427	27-Apr-20 09:13	28-Apr-20 09:04	Amber Glass, 120 mL
2000964-07	PDI-148SC-A-05-06-200427	27-Apr-20 09:13	28-Apr-20 09:04	Amber Glass, 120 mL
2000964-08	PDI-148SC-A-06-07-200427	DUP27-Apr-20 09:13	28-Apr-20 09:04	Amber Glass, 120 mL Amber Glass, 120 mL
2000964-09	PDI-148SC-A-07-08-200427	27-Apr-20 09:13	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: B0E0067 Date Extracted: 08-May-2020 13:49		Lab Sample: B0E0067-BLK1 Date Analyzed: 04-Jun-20 10:35 Column: ZB-5MS				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0814			IS 13C-2,3,7,8-TCDD	85.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0792			13C-1,2,3,7,8-PeCDD	78.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.137			13C-1,2,3,4,7,8-HxCDD	74.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.129			13C-1,2,3,6,7,8-HxCDD	74.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.151			13C-1,2,3,7,8,9-HxCDD	73.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.158			13C-1,2,3,4,6,7,8-HpCDD	66.3	23 - 140	
OCDD	0.587			J	13C-OCDD	53.8	17 - 157	
2,3,7,8-TCDF	ND	0.0449			13C-2,3,7,8-TCDF	77.1	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0499			13C-1,2,3,7,8-PeCDF	82.3	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0466			13C-2,3,4,7,8-PeCDF	82.2	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0681			13C-1,2,3,4,7,8-HxCDF	74.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0604			13C-1,2,3,6,7,8-HxCDF	78.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0683			13C-2,3,4,6,7,8-HxCDF	76.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.105			13C-1,2,3,7,8,9-HxCDF	73.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0858			13C-1,2,3,4,6,7,8-HpCDF	69.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.104			13C-1,2,3,4,7,8,9-HpCDF	67.8	26 - 138	
OCDF	ND	0.101			13C-OCDF	58.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	97.4	35 - 197	
					<b>Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)</b>			
					TEQMinWHO2005Dioxin 0.000176			
<b>TOTALS</b>								
Total TCDD	ND	0.0814						
Total PeCDD	ND	0.0792						
Total HxCDD	ND	0.151						
Total HpCDD	ND	0.158						
Total TCDF	ND	0.0449						
Total PeCDF	ND	0.0499						
Total HxCDF	ND	0.105						
Total HpCDF	ND	0.104						

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

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

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0E0067 Date Extracted: 08-May-2020 13:49		Lab Sample: B0E0067-BS1 Date Analyzed: 04-Jun-20 09:01 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	17.0	20.0	84.8	67 - 158	IS 13C-2,3,7,8-TCDD	97.5	20 - 175
1,2,3,7,8-PeCDD	87.6	100	87.6	70 - 142	13C-1,2,3,7,8-PeCDD	96.1	21 - 227
1,2,3,4,7,8-HxCDD	91.0	100	91.0	70 - 164	13C-1,2,3,4,7,8-HxCDD	88.8	21 - 193
1,2,3,6,7,8-HxCDD	93.2	100	93.2	76 - 134	13C-1,2,3,6,7,8-HxCDD	87.3	25 - 163
1,2,3,7,8,9-HxCDD	90.5	100	90.5	64 - 162	13C-1,2,3,7,8,9-HxCDD	87.9	21 - 193
1,2,3,4,6,7,8-HpCDD	92.6	100	92.6	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	79.7	26 - 166
OCDD	189	200	94.3	78 - 144	13C-OCDD	70.9	13 - 199
2,3,7,8-TCDF	17.9	20.0	89.7	75 - 158	13C-2,3,7,8-TCDF	86.9	22 - 152
1,2,3,7,8-PeCDF	89.8	100	89.8	80 - 134	13C-1,2,3,7,8-PeCDF	95.6	21 - 192
2,3,4,7,8-PeCDF	91.6	100	91.6	68 - 160	13C-2,3,4,7,8-PeCDF	97.0	13 - 328
1,2,3,4,7,8-HxCDF	93.6	100	93.6	72 - 134	13C-1,2,3,4,7,8-HxCDF	91.0	19 - 202
1,2,3,6,7,8-HxCDF	95.8	100	95.8	84 - 130	13C-1,2,3,6,7,8-HxCDF	94.3	21 - 159
2,3,4,6,7,8-HxCDF	91.5	100	91.5	70 - 156	13C-2,3,4,6,7,8-HxCDF	93.4	22 - 176
1,2,3,7,8,9-HxCDF	94.0	100	94.0	78 - 130	13C-1,2,3,7,8,9-HxCDF	87.6	17 - 205
1,2,3,4,6,7,8-HpCDF	94.4	100	94.4	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	83.5	21 - 158
1,2,3,4,7,8,9-HpCDF	94.4	100	94.4	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	81.8	20 - 186
OCDF	189	200	94.6	63 - 170	13C-OCDF	72.3	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	108	31 - 191

LCL-UCL - Lower control limit - upper control limit

**Sample ID: PDI-1148SC-A-07-08-200427** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000964-01      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.6 g	QC Batch: B0E0067      Date Extracted: 08-May-2020 13:49
Date Collected: 27-Apr-2020 9:16	% Solids: 79.2	Date Analyzed: 04-Jun-20 11:22      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0731			IS 13C-2,3,7,8-TCDD	87.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0794			13C-1,2,3,7,8-PeCDD	87.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.149			13C-1,2,3,4,7,8-HxCDD	82.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.150			13C-1,2,3,6,7,8-HxCDD	83.0	28 - 130	
1,2,3,7,8,9-HxCDD	0.144			J	13C-1,2,3,7,8,9-HxCDD	81.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.27			J	13C-1,2,3,4,6,7,8-HpCDD	76.3	23 - 140	
OCDD	7.35			B	13C-OCDD	66.8	17 - 157	
2,3,7,8-TCDF	ND	0.0351			13C-2,3,7,8-TCDF	78.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0424			13C-1,2,3,7,8-PeCDF	85.1	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0380			13C-2,3,4,7,8-PeCDF	86.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0491			13C-1,2,3,4,7,8-HxCDF	84.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0460			13C-1,2,3,6,7,8-HxCDF	86.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0509			13C-2,3,4,6,7,8-HxCDF	85.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0814			13C-1,2,3,7,8,9-HxCDF	81.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0609			13C-1,2,3,4,6,7,8-HpCDF	78.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0724			13C-1,2,3,4,7,8,9-HpCDF	76.7	26 - 138	
OCDF	ND	0.108			13C-OCDF	68.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.6	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.0293

<b>TOTALS</b>				
Total TCDD	ND	0.0731		
Total PeCDD	ND	0.0794		
Total HxCDD	1.40			
Total HpCDD	3.28			
Total TCDF	ND	0.0351		
Total PeCDF	ND	0.0424		
Total HxCDF	ND	0.0814		
Total HpCDF	ND	0.0724		

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-148SC-A-00-01-200427** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000964-02      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 18.1 g	QC Batch: B0E0067      Date Extracted: 08-May-2020 13:49
Date Collected: 27-Apr-2020 9:13	% Solids: 55.7	Date Analyzed : 02-Jul-20 20:54 Column: DB-225 04-Jun-20 12:08 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	0.406			J	IS 13C-2,3,7,8-TCDD	82.0	25 - 164	
1,2,3,7,8-PeCDD	ND		0.493		13C-1,2,3,7,8-PeCDD	74.9	25 - 181	
1,2,3,4,7,8-HxCDD	0.871			J	13C-1,2,3,4,7,8-HxCDD	69.4	32 - 141	
1,2,3,6,7,8-HxCDD	3.82				13C-1,2,3,6,7,8-HxCDD	67.9	28 - 130	
1,2,3,7,8,9-HxCDD	2.07			J	13C-1,2,3,7,8,9-HxCDD	64.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	131				13C-1,2,3,4,6,7,8-HpCDD	57.5	23 - 140	
OCDD	1210			B	13C-OCDD	42.4	17 - 157	
2,3,7,8-TCDF	9.06				13C-2,3,7,8-TCDF	74.0	24 - 169	
1,2,3,7,8-PeCDF	13.9				13C-1,2,3,7,8-PeCDF	78.8	24 - 185	
2,3,4,7,8-PeCDF	5.46				13C-2,3,4,7,8-PeCDF	75.8	21 - 178	
1,2,3,4,7,8-HxCDF	20.5				13C-1,2,3,4,7,8-HxCDF	72.2	26 - 152	
1,2,3,6,7,8-HxCDF	5.87				13C-1,2,3,6,7,8-HxCDF	71.0	26 - 123	
2,3,4,6,7,8-HxCDF	1.86			J	13C-2,3,4,6,7,8-HxCDF	67.9	28 - 136	
1,2,3,7,8,9-HxCDF	0.715			J	13C-1,2,3,7,8,9-HxCDF	68.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	22.3				13C-1,2,3,4,6,7,8-HpCDF	59.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	4.54				13C-1,2,3,4,7,8,9-HpCDF	58.2	26 - 138	
OCDF	71.1				13C-OCDF	43.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	92.1	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
TEQMinWHO2005Dioxin      8.90

<b>TOTALS</b>				
Total TCDD	5.39		5.63	
Total PeCDD	5.54		6.46	
Total HxCDD	43.7			
Total HpCDD	329			
Total TCDF	37.6		38.5	
Total PeCDF	46.4			
Total HxCDF	54.6			
Total HpCDF	79.5			

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

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

**Sample ID: PDI-148SC-A-01-02-200427** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000964-03      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.8 g	QC Batch: B0E0067      Date Extracted: 08-May-2020 13:49
Date Collected: 27-Apr-2020 9:13	% Solids: 78.7	Date Analyzed : 02-Jul-20 21:26 Column: DB-225 04-Jun-20 12:54 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.339		IS 13C-2,3,7,8-TCDD	80.7	25 - 164	
1,2,3,7,8-PeCDD	ND		0.454		13C-1,2,3,7,8-PeCDD	77.2	25 - 181	
1,2,3,4,7,8-HxCDD	0.655			J	13C-1,2,3,4,7,8-HxCDD	76.1	32 - 141	
1,2,3,6,7,8-HxCDD	4.47				13C-1,2,3,6,7,8-HxCDD	72.2	28 - 130	
1,2,3,7,8,9-HxCDD	1.86			J	13C-1,2,3,7,8,9-HxCDD	68.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	100				13C-1,2,3,4,6,7,8-HpCDD	64.5	23 - 140	
OCDD	934			B	13C-OCDD	52.1	17 - 157	
2,3,7,8-TCDF	16.6				13C-2,3,7,8-TCDF	73.2	24 - 169	
1,2,3,7,8-PeCDF	24.9				13C-1,2,3,7,8-PeCDF	78.8	24 - 185	
2,3,4,7,8-PeCDF	3.50				13C-2,3,4,7,8-PeCDF	76.1	21 - 178	
1,2,3,4,7,8-HxCDF	44.0				13C-1,2,3,4,7,8-HxCDF	73.3	26 - 152	
1,2,3,6,7,8-HxCDF	12.3				13C-1,2,3,6,7,8-HxCDF	73.9	26 - 123	
2,3,4,6,7,8-HxCDF	3.68				13C-2,3,4,6,7,8-HxCDF	72.2	28 - 136	
1,2,3,7,8,9-HxCDF	1.79			J	13C-1,2,3,7,8,9-HxCDF	72.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	25.9				13C-1,2,3,4,6,7,8-HpCDF	65.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	7.70				13C-1,2,3,4,7,8,9-HpCDF	64.7	26 - 138	
OCDF	49.7				13C-OCDF	52.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	101	35 - 197	

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

TEQMinWHO2005Dioxin      12.0

<b>TOTALS</b>		
Total TCDD	1.57	3.11
Total PeCDD	3.30	5.21
Total HxCDD	40.8	
Total HpCDD	216	
Total TCDF	59.4	60.1
Total PeCDF	79.3	
Total HxCDF	89.1	
Total HpCDF	70.1	

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: PDI-148SC-A-02-03-200427** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000964-04      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.5 g	QC Batch: B0E0067      Date Extracted: 08-May-2020 13:49
Date Collected: 27-Apr-2020 9:13	% Solids: 80.3	Date Analyzed: 04-Jun-20 13:40      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0608			IS 13C-2,3,7,8-TCDD	93.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0967			13C-1,2,3,7,8-PeCDD	89.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.103			13C-1,2,3,4,7,8-HxCDD	84.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.102			13C-1,2,3,6,7,8-HxCDD	82.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.110			13C-1,2,3,7,8,9-HxCDD	83.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.297			13C-1,2,3,4,6,7,8-HpCDD	77.1	23 - 140	
OCDD	3.18			J, B	13C-OCDD	71.6	17 - 157	
2,3,7,8-TCDF	ND	0.0360			13C-2,3,7,8-TCDF	85.5	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0734			13C-1,2,3,7,8-PeCDF	91.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0691			13C-2,3,4,7,8-PeCDF	92.8	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0655			13C-1,2,3,4,7,8-HxCDF	86.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0587			13C-1,2,3,6,7,8-HxCDF	89.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0677			13C-2,3,4,6,7,8-HxCDF	86.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.103			13C-1,2,3,7,8,9-HxCDF	83.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0652			13C-1,2,3,4,6,7,8-HpCDF	86.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0772			13C-1,2,3,4,7,8,9-HpCDF	80.6	26 - 138	
OCDF	ND	0.114			13C-OCDF	71.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	102	35 - 197	

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

TEQMinWHO2005Dioxin      0.000954

<b>TOTALS</b>		
Total TCDD	0.149	0.0608
Total PeCDD	ND	0.0967
Total HxCDD	0.326	
Total HpCDD	ND	0.297
Total TCDF	ND	0.0360
Total PeCDF	ND	0.0734
Total HxCDF	ND	0.103
Total HpCDF	ND	0.0772

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

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

**Sample ID: PDI-148SC-A-03-04-200427** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000964-05      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.5 g	QC Batch: B0E0067      Date Extracted: 08-May-2020 13:49
Date Collected: 27-Apr-2020 9:13	% Solids: 80.1	Date Analyzed: 05-Jun-20 11:26      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0848			IS 13C-2,3,7,8-TCDD	93.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0784			13C-1,2,3,7,8-PeCDD	90.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.135			13C-1,2,3,4,7,8-HxCDD	80.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.131			13C-1,2,3,6,7,8-HxCDD	83.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.159			13C-1,2,3,7,8,9-HxCDD	83.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.05			J	13C-1,2,3,4,6,7,8-HpCDD	77.3	23 - 140	
OCDD	8.79			B	13C-OCDD	70.1	17 - 157	
2,3,7,8-TCDF	ND	0.0401			13C-2,3,7,8-TCDF	84.4	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0426			13C-1,2,3,7,8-PeCDF	90.8	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0389			13C-2,3,4,7,8-PeCDF	92.6	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0482			13C-1,2,3,4,7,8-HxCDF	83.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0416			13C-1,2,3,6,7,8-HxCDF	86.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0494			13C-2,3,4,6,7,8-HxCDF	87.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0725			13C-1,2,3,7,8,9-HxCDF	83.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0538			13C-1,2,3,4,6,7,8-HpCDF	81.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0611			13C-1,2,3,4,7,8,9-HpCDF	79.5	26 - 138	
OCDF	ND	0.0859			13C-OCDF	67.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	104	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.0131

<b>TOTALS</b>								
Total TCDD	ND		0.567					
Total PeCDD	0.416		0.528					
Total HxCDD	1.10							
Total HpCDD	3.13							
Total TCDF	ND	0.0401						
Total PeCDF	ND	0.0426						
Total HxCDF	ND	0.0725						
Total HpCDF	ND	0.0611						

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-148SC-A-04-05-200427** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000964-06      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.5 g	QC Batch: B0E0067      Date Extracted: 08-May-2020 13:49
Date Collected: 27-Apr-2020 9:13	% Solids: 87.4	Date Analyzed: 05-Jun-20 12:12      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0820			IS 13C-2,3,7,8-TCDD	84.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.103			13C-1,2,3,7,8-PeCDD	82.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0943			13C-1,2,3,4,7,8-HxCDD	76.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0916			13C-1,2,3,6,7,8-HxCDD	77.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0525			13C-1,2,3,7,8,9-HxCDD	74.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.717			J	13C-1,2,3,4,6,7,8-HpCDD	68.8	23 - 140	
OCDD	5.88			B	13C-OCDD	61.9	17 - 157	
2,3,7,8-TCDF	ND	0.0429			13C-2,3,7,8-TCDF	75.6	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0380			13C-1,2,3,7,8-PeCDF	85.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0346			13C-2,3,4,7,8-PeCDF	88.0	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0403			13C-1,2,3,4,7,8-HxCDF	78.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0362			13C-1,2,3,6,7,8-HxCDF	80.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0394			13C-2,3,4,6,7,8-HxCDF	81.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0617			13C-1,2,3,7,8,9-HxCDF	75.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0506			13C-1,2,3,4,6,7,8-HpCDF	74.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0570			13C-1,2,3,4,7,8,9-HpCDF	72.7	26 - 138	
OCDF	ND	0.113			13C-OCDF	61.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.1	35 - 197	

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

TEQMinWHO2005Dioxin      0.00893

<b>TOTALS</b>				
Total TCDD	0.207			
Total PeCDD	ND		0.0715	
Total HxCDD	0.622			
Total HpCDD	1.85			
Total TCDF	ND		0.00723	
Total PeCDF	ND	0.0346		
Total HxCDF	ND	0.0617		
Total HpCDF	ND	0.0570		

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-148SC-A-05-06-200427** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000964-07      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.8 g	QC Batch: B0E0067      Date Extracted: 08-May-2020 13:49
Date Collected: 27-Apr-2020 9:13	% Solids: 84.9	Date Analyzed: 04-Jun-20 15:59      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0561			IS 13C-2,3,7,8-TCDD	88.3	25 - 164	
1,2,3,7,8-PeCDD	ND	0.112			13C-1,2,3,7,8-PeCDD	84.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0918			13C-1,2,3,4,7,8-HxCDD	90.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0996			13C-1,2,3,6,7,8-HxCDD	85.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.118			13C-1,2,3,7,8,9-HxCDD	82.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.08			J	13C-1,2,3,4,6,7,8-HpCDD	75.9	23 - 140	
OCDD	8.23			B	13C-OCDD	65.4	17 - 157	
2,3,7,8-TCDF	ND	0.0322			13C-2,3,7,8-TCDF	81.4	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0235			13C-1,2,3,7,8-PeCDF	88.3	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0219			13C-2,3,4,7,8-PeCDF	87.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0348			13C-1,2,3,4,7,8-HxCDF	85.6	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0326			13C-1,2,3,6,7,8-HxCDF	87.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0354			13C-2,3,4,6,7,8-HxCDF	86.7	28 - 136	
1,2,3,7,8,9-HxCDF	0.0359			J	13C-1,2,3,7,8,9-HxCDF	83.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0448			13C-1,2,3,4,6,7,8-HpCDF	77.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0518			13C-1,2,3,4,7,8,9-HpCDF	78.3	26 - 138	
OCDF	ND	0.111			13C-OCDF	67.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	96.2	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.0169

<b>TOTALS</b>				
Total TCDD	0.262			
Total PeCDD	ND		0.0258	
Total HxCDD	0.872		1.20	
Total HpCDD	3.12			
Total TCDF	0.0189		0.0357	
Total PeCDF	ND	0.0235		
Total HxCDF	0.0359		0.0459	
Total HpCDF	ND	0.0518		

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-148SC-A-06-07-200427** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000964-08      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.2 g	QC Batch: B0E0067      Date Extracted: 08-May-2020 13:49
Date Collected: 27-Apr-2020 9:13	% Solids: 82.5	Date Analyzed: 04-Jun-20 16:45      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0512			IS 13C-2,3,7,8-TCDD	95.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0775			13C-1,2,3,7,8-PeCDD	90.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0777			13C-1,2,3,4,7,8-HxCDD	84.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0780			13C-1,2,3,6,7,8-HxCDD	84.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0927			13C-1,2,3,7,8,9-HxCDD	83.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.408			J	13C-1,2,3,4,6,7,8-HpCDD	78.5	23 - 140	
OCDD	3.61			J, B	13C-OCDD	66.0	17 - 157	
2,3,7,8-TCDF	ND	0.0306			13C-2,3,7,8-TCDF	87.2	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0274			13C-1,2,3,7,8-PeCDF	94.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0276			13C-2,3,4,7,8-PeCDF	92.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0310			13C-1,2,3,4,7,8-HxCDF	88.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0294			13C-1,2,3,6,7,8-HxCDF	90.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0322			13C-2,3,4,6,7,8-HxCDF	88.7	28 - 136	
1,2,3,7,8,9-HxCDF	0.0557			J	13C-1,2,3,7,8,9-HxCDF	87.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0454			13C-1,2,3,4,6,7,8-HpCDF	78.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0554			13C-1,2,3,4,7,8,9-HpCDF	77.2	26 - 138	
OCDF	ND	0.0669			13C-OCDF	66.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	107	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.0107

<b>TOTALS</b>			
Total TCDD	ND	0.0512	
Total PeCDD	ND	0.0775	
Total HxCDD	0.278		
Total HpCDD	1.14		
Total TCDF	ND	0.0306	
Total PeCDF	ND	0.0276	
Total HxCDF	0.0557		
Total HpCDF	ND	0.0554	

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-148SC-A-06-07-200427		QC Batch: B0E0067		Lab Sample: B0E0067-DUP1					
Source LabNumber: 2000964-08		Date Extracted: 08-May-2020 13:49		Date Analyzed: 04-Jun-20 17:32 Column: ZB-5MS					
Matrix: Solid									
Sample Size: 12.3 g									
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0665			IS 13C-2,3,7,8-TCDD	72.3	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0875			13C-1,2,3,7,8-PeCDD	69.6	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.138			13C-1,2,3,4,7,8-HxCDD	64.6	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.149			13C-1,2,3,6,7,8-HxCDD	60.5	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.171			13C-1,2,3,7,8,9-HxCDD	61.3	32 - 141		
1,2,3,4,6,7,8-HpCDD	0.706			J	13C-1,2,3,4,6,7,8-HpCDD	54.8	23 - 140		
OCDD	4.49			J, B	13C-OCDD	47.5	17 - 157		
2,3,7,8-TCDF	ND	0.0370			13C-2,3,7,8-TCDF	65.5	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0350			13C-1,2,3,7,8-PeCDF	70.8	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0322			13C-2,3,4,7,8-PeCDF	70.2	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0388			13C-1,2,3,4,7,8-HxCDF	64.1	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0337			13C-1,2,3,6,7,8-HxCDF	64.2	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0366			13C-2,3,4,6,7,8-HxCDF	65.0	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.0543			13C-1,2,3,7,8,9-HxCDF	65.2	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.0630			13C-1,2,3,4,6,7,8-HpCDF	55.0	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.0658			13C-1,2,3,4,7,8,9-HpCDF	58.1	26 - 138		
OCDF	ND	0.115			13C-OCDF	49.0	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	102	35 - 197		
					<b>Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)</b>				
					TEQMinWHO2005Dioxin		0.00841		
<b>TOTALS</b>									
Total TCDD	ND		0.0532						
Total PeCDD	ND	0.0875							
Total HxCDD	0.573		0.729						
Total HpCDD	0.706		2.08						
Total TCDF	ND	0.0370							
Total PeCDF	ND	0.0350							
Total HxCDF	ND	0.0543							
Total HpCDF	ND	0.0658							

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.

Sample ID: Duplicate					EPA Method 1613B				
Source Client ID: PDI-148SC-A-06-07-200427					Duplicate Lab Sample: B0E0067-DUP1				
Source LabNumber: 2000964-08									
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	ND	ND	NA	25	IS 13C-2,3,7,8-TCDD	72.3	95.9	25 - 164	
1,2,3,7,8-PeCDD	ND	ND	NA	25	13C-1,2,3,7,8-PeCDD	69.6	90.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	ND	NA	25	13C-1,2,3,4,7,8-HxCDD	64.6	84.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	ND	NA	25	13C-1,2,3,6,7,8-HxCDD	60.5	84.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	ND	NA	25	13C-1,2,3,7,8,9-HxCDD	61.3	83.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.706	0.408	53.4	25	13C-1,2,3,4,6,7,8-HpCDD	54.8	78.5	23 - 140	
OCDD	4.49	3.61	21.8	25	13C-OCDD	47.5	66.0	17 - 157	
2,3,7,8-TCDF	ND	ND	NA	25	13C-2,3,7,8-TCDF	65.5	87.2	24 - 169	
1,2,3,7,8-PeCDF	ND	ND	NA	25	13C-1,2,3,7,8-PeCDF	70.8	94.7	24 - 185	
2,3,4,7,8-PeCDF	ND	ND	NA	25	13C-2,3,4,7,8-PeCDF	70.2	92.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	ND	NA	25	13C-1,2,3,4,7,8-HxCDF	64.1	88.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	ND	NA	25	13C-1,2,3,6,7,8-HxCDF	64.2	90.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	ND	NA	25	13C-2,3,4,6,7,8-HxCDF	65.0	88.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0557	#	25	13C-1,2,3,7,8,9-HxCDF	65.2	87.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	ND	NA	25	13C-1,2,3,4,6,7,8-HpCDF	55.0	78.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	ND	NA	25	13C-1,2,3,4,7,8,9-HpCDF	58.1	77.2	26 - 138	
OCDF	ND	ND	NA	25	13C-OCDF	49.0	66.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	102	107	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-148SC-A-07-08-200427** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000964-09      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.7 g	QC Batch: B0E0067      Date Extracted: 08-May-2020 13:49
Date Collected: 27-Apr-2020 9:13	% Solids: 79.1	Date Analyzed: 04-Jun-20 18:18      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0596			IS 13C-2,3,7,8-TCDD	87.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0773			13C-1,2,3,7,8-PeCDD	83.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.118			13C-1,2,3,4,7,8-HxCDD	81.9	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.119			13C-1,2,3,6,7,8-HxCDD	79.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.144			13C-1,2,3,7,8,9-HxCDD	78.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND		0.737		13C-1,2,3,4,6,7,8-HpCDD	73.0	23 - 140	
OCDD	7.96			B	13C-OCDD	61.4	17 - 157	
2,3,7,8-TCDF	ND	0.0323			13C-2,3,7,8-TCDF	83.1	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0352			13C-1,2,3,7,8-PeCDF	88.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0351			13C-2,3,4,7,8-PeCDF	86.5	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0490			13C-1,2,3,4,7,8-HxCDF	81.6	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0443			13C-1,2,3,6,7,8-HxCDF	84.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0490			13C-2,3,4,6,7,8-HxCDF	83.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0497		13C-1,2,3,7,8,9-HxCDF	80.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0682			13C-1,2,3,4,6,7,8-HpCDF	76.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0787			13C-1,2,3,4,7,8,9-HpCDF	75.5	26 - 138	
OCDF	ND	0.112			13C-OCDF	62.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	105	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.00239

<b>TOTALS</b>								
Total TCDD	ND	0.0596						
Total PeCDD	ND		0.0555					
Total HxCDD	0.611							
Total HpCDD	1.72		2.46					
Total TCDF	ND	0.0323						
Total PeCDF	ND		0.00845					
Total HxCDF	ND		0.0497					
Total HpCDF	ND	0.0787						

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-20200427-102923  
**Sample Custodian:** SN  
**Lab:** VISTA

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

2000964 3.4°C, 4.1°C

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-1148SC-A-07-09-200427	FD	SE	04/27/2020		1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
* 002	PDI-148SC-A-00-01-200427	N	SE	04/27/2020	9:13	1	<input type="checkbox"/>	Dioxin/Furans PCB Congeners Total solids (VISTA)	E1613B E1668A SM2540G	30 30 30	4°C 4°C 4°C
003	PDI-148SC-A-01-02-200427	N	SE	04/27/2020	9:13	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
004	PDI-148SC-A-02-03-200427	N	SE	04/27/2020	9:13	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
005	PDI-148SC-A-03-04-200427	N	SE	04/27/2020	9:13	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
006	PDI-148SC-A-04-05-200427	N	SE	04/27/2020	9:13	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
007	PDI-148SC-A-05-06-200427	N	SE	04/27/2020	9:13	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C

Comment: \* WO # 2000964

Relinquished By: Signature	Received By: Signature	Relinquished By: Signature	Received By: Signature	Relinquished By: Signature	Received By: 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



**ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY**

**COC ID:** VISTA-20200427-102923  
**Sample Custodian:** SN  
**Lab:** VISTA

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

2000964

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
008	PDI-148SC-A-06-07-200427	N	SE	04/27/2020	9:13	2	<input checked="" type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
009	PDI-148SC-A-07-08-200427	N	SE	04/27/2020	9:13	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
* 010	PDI-153SC-A-00-01-200427	N	SE	04/27/2020	10:26	1	<input type="checkbox"/>	Dioxin/Furans * PCB Congeners * Total solids (VISTA)	E1613B E1668A SM2540G	30 30 30	4°C 4°C 4°C
* 011	PDI-153SC-A-01-02-200427	N	SE	04/27/2020	10:26	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
* 012	PDI-153SC-A-02-03-200427	N	SE	04/27/2020	10:26	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
* 013	PDI-153SC-A-03-04-200427	N	SE	04/27/2020	10:26	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
* 014	PDI-153SC-A-04-05-200427	N	SE	04/27/2020	10:26	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C

**Comment:**  
\* WO # 2000967 WO # 2000976  
\* WO # 2000977 *all 04/20/20*

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: Sasha Norwood	Print Name: William R. W. [Signature]	Print Name:	Print Name:	Print Name:	Print Name:
Company: Anchor OEA	Company: VAC	Company:	Company:	Company:	Company:
Date/Time: 4/27/20 1330	Date/Time: 4-28-20 09:04	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Page # 1 of 1

Vista Work Order #: 2000964

TAT Std

<b>Samples Arrival:</b>	<b>Date/Time</b> 4/29/20 09:04	<b>Initials:</b> WUW	<b>Location:</b> WR-2
			<b>Shelf/Rack:</b> N/A
<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	<input type="checkbox"/> Other
<b>Preservation:</b>	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
	<input type="checkbox"/> None		
<b>Temp °C:</b> 3.4 (uncorrected)	<b>Probe used:</b> Y / (N)		<b>Thermometer ID:</b> IR-3
<b>Temp °C:</b> 3.4 (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill: <u>3 of 3 1 of 3</u> Trk # <u>7703 3190 0431</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose	
Chain of Custody / Sample Documentation Present? *	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Logged In:</b>	<b>Date/Time</b> 04/29/20 0757	<b>Initials:</b> KS	<b>Location:</b> WR-2
			<b>Shelf/Rack:</b> G4
COC Anomaly/Sample Acceptance Form completed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments: \* COC in cooler 3 of 3

Page # 1 of 1

Vista Work Order #: 2000964

TAT Sta

Samples Arrival:	Date/Time <u>4/20/20 09:04</u>		Initials: <u>WRW</u>		Location: <u>WR-2</u>		
					Shelf/Rack: <u>NA</u>		
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GLS	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice		<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Dry Ice		<input type="checkbox"/> None
Temp °C:	<u>4.1</u> (uncorrected)	Probe used: Y <input checked="" type="checkbox"/> N			Thermometer ID: <u>IR3</u>		
Temp °C:	<u>4.1</u> (corrected)						

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u>2 of 3</u>   Trk # <u>7703 3190 0660</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logged In:	Date/Time <u>04/20/20 0757</u>		Initials: <u>KS</u>
			Location: <u>WR-2</u>
			Shelf/Rack: <u>G-5</u>
COC Anomaly/Sample Acceptance Form completed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:



# CoC/Label Reconciliation Report WO# 2000964

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2000964-01	A PDI-1148SC-A-07-08-200427	<input checked="" type="checkbox"/>	27-Apr-20 09:16	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000964-02	A PDI-148SC-A-00-01-200427	<input checked="" type="checkbox"/>	27-Apr-20 09:13	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000964-03	A PDI-148SC-A-01-02-200427	<input checked="" type="checkbox"/>	27-Apr-20 09:13	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000964-04	A PDI-148SC-A-02-03-200427	<input checked="" type="checkbox"/>	27-Apr-20 09:13	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000964-05	A PDI-148SC-A-03-04-200427	<input checked="" type="checkbox"/>	27-Apr-20 09:13	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000964-06	A PDI-148SC-A-04-05-200427	<input checked="" type="checkbox"/>	27-Apr-20 09:13	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000964-07	A PDI-148SC-A-05-06-200427	<input checked="" type="checkbox"/>	27-Apr-20 09:13	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000964-08	A PDI-148SC-A-06-07-200427	<input checked="" type="checkbox"/>	27-Apr-20 09:13	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid DUP
2000964-08	B PDI-148SC-A-06-07-200427	<input checked="" type="checkbox"/>	27-Apr-20 09:13	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid DUP
2000964-09	A PDI-148SC-A-07-08-200427	<input checked="" type="checkbox"/>	27-Apr-20 09:13	<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?	✓			
Sample Custody Seals Intact?			✓	
Adequate Sample Volume?	✓			
Container Type Appropriate for Analysis(es)	✓			
Preservation Documented: Na2S2O3 Trizma <u>None</u> Other			✓	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓	

Verified by/Date: KA 04/29/2020

## **EXTRACTION INFORMATION**



Process Sheet

Workorder: **2000964**

Prep Expiration: 2021-04-27  
Client: Anchor QEA, LLC

Workorder Due: **26-May-20 00:00**

TAT: 28

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

Prep Batch: B0E0067

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

Initial Sequence: SOFO011

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2000964-01	<input checked="" type="checkbox"/>	PDI-1148SC-A-07-08-200427	28-Apr-20 09:04	WR-2 G-5	
2000964-02	<input checked="" type="checkbox"/>	PDI-148SC-A-00-01-200427	28-Apr-20 09:04	WR-2 G-5	
2000964-03	<input checked="" type="checkbox"/>	PDI-148SC-A-01-02-200427	28-Apr-20 09:04	WR-2 G-5	
2000964-04	<input checked="" type="checkbox"/>	PDI-148SC-A-02-03-200427	28-Apr-20 09:04	WR-2 G-5	
2000964-05	<input checked="" type="checkbox"/>	PDI-148SC-A-03-04-200427	28-Apr-20 09:04	WR-2 G-5	
2000964-06	<input checked="" type="checkbox"/>	PDI-148SC-A-04-05-200427	28-Apr-20 09:04	WR-2 G-5	
2000964-07	<input checked="" type="checkbox"/>	PDI-148SC-A-05-06-200427	28-Apr-20 09:04	WR-2 G-5	
2000964-08	<input checked="" type="checkbox"/>	PDI-148SC-A-06-07-200427	28-Apr-20 09:04	WR-2 G-5	DUP
2000964-09	<input checked="" type="checkbox"/>	PDI-148SC-A-07-08-200427	28-Apr-20 09:04	WR-2 G-5	

964-09A was transferred into a new amber glass container RR 05/08/20

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

RR 05/08/20

Pre-Prep Check Out: AZ 05/03/20  
Pre-Prep Check In: AZ 05/03/20

Prep Check Out: RR 05/08/20  
Prep Check In: RR 05/08/20

Prep Reconciled Initials/Date: AZ 05/03/20  
Spike Reconciled Initials/Date: RR 05/08/20

VialBoxID: US5 Farragut

PREPARATION BENCH SHEET

Matrix: Solid

B0E0067

Chemist: RR

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

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

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

IS Name <u>V<sub>1</sub></u>	NS Name <u>V<sub>1</sub></u>	CRS Name <u>V<sub>1</sub></u>	RS Name <u>V<sub>1</sub></u>	Cycle Time	APP: SEFUN SOX <u>(SDS)</u>	Check Out: Chemist/Date: <u>RR 05/08/20</u>
PCDD/F <u>191250, 10mL</u>	PCDD/F <u>1911913, 10mL</u>	PCDD/F <u>1911602, 10mL</u>	PCDD/F <u>1911603, 10mL</u>	Start Date/Time <u>05/08/20 1546</u>	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <u>RR 05/08/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>05/09/20 0750</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>44</u>	<u>20mL</u>	

Comments:

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

PREPARATION BENCH SHEET

Matrix: Solid

B0E0067

Chemist: RR

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

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

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	2000997-04	14.81	15.00	RR 05/08/20	05/15/20	NA	05/15/20	05/15/20	05/16/20	RR 05/16/20
<input type="checkbox"/>	2000997-05	14.07	14.12	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000997-06	15.62	15.80	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000997-07	14.68	14.80	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000997-08	16.15	16.18	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000997-09	15.53	15.59	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000997-10	15.09	15.20	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000997-11	14.47	14.52	↓	↓	↓	↓	↓	↓	↓

IS Name <u>19L2361, 10mL</u>	NS Name	CRS Name <u>V1</u>	RS Name <u>V1</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: <u>RR 05/08/20</u>
PCDD/F <u>19L230</u>	PCDD/F <u>18F1913, 10mL</u>	PCDD/F <u>19I1602, 10mL</u>	PCDD/F <u>19I1603, 10mL</u>	Start Date/Time <u>05/08/20 1546</u>	SOLV: <u>Toluene</u>	Check In: <u>RR 05/08/20</u>
PCB	PCB	PCB	PCB	Stop Date/Time <u>05/09/20 0750</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH	PAH	PAH	PAH	Final Volume(s) <u>114</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

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

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





Percent Moisture/ Percent Solids

D2216-90

BATCH ID BOE0021

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

Inst **hems-9**

Date/Time IN: **05/03/20 15:34** Date/Time OUT: **05/04/20 10:21**

Particle Size	SampleID	SampType	Initial and Date:		Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
			Pan Tare Wt. (gms)	Initial and Date:										
				<b>AZ 05/03/20</b>		<b>CH 05/04/20</b>			<b>AZ 05/03/20</b>				<b>NA</b>	<b>AZ 05/03/20</b>
	2000964-01	Sample	1.31		6.73	5.60		Sand						Y
	2000964-02	Sample	1.30		8.36	5.23		Mud						Y
	2000964-03	Sample	1.32		8.36	6.86		Sand						Y
	2000964-04	Sample	1.30		7.59	6.35								Y
	2000964-05	Sample	1.28		6.26	5.27								Y
	2000964-06	Sample	1.28		6.44	5.79								Y
	2000964-07	Sample	1.31		6.42	5.65								Y
	2000964-08	Sample	1.30		6.11	5.27								Y
	2000964-09	Sample	1.28		6.93	5.75								Y

\*Sample homogenized in sample container unless otherwise noted.

SAMPLE DATA – EPA METHOD 1613

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

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

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

*GRB 06/05/2020*

*GT 06/09/2020*

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

Calibration: U:\VG12.PRO\CurveDB\ldb5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1\_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

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



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

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

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

Name: 200604R1\_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	2.94e5	0.41	NO	0.774	10.000	37.319	37.35	1.086	1.087	138.07	69.0	0.698	
33	13C-1,2,3,4,7,8,9-HpCDF	1.94e5	0.43	NO	0.521	10.000	39.349	39.30	1.145	1.144	135.53	67.8	1.04	
34	13C-OCDF	4.78e5	0.87	NO	0.746	10.000	41.946	41.93	1.221	1.220	233.51	58.4	0.414	
35	37Cl-2,3,7,8-TCDD	2.94e5			1.04	10.000	26.569	26.53	1.028	1.026	77.907	97.4	0.0588	
36	13C-1,2,3,4-TCDD	7.28e5	0.79	NO	1.00	10.000	25.890	25.85	1.000	1.000	200.00	100	0.285	
37	13C-1,2,3,4-TCDF	1.10e6	0.78	NO	1.00	10.000	24.360	24.18	1.000	1.000	200.00	100	0.356	
38	13C-1,2,3,4,6,9-HxCDF	5.49e5	0.49	NO	1.00	10.000	34.420	34.36	1.000	1.000	200.00	100	0.591	
39	Total Tetra-Dioxins				0.888	10.000	24.620		0.000				0.0513	
40	Total Penta-Dioxins				0.908	10.000	29.960		0.000				0.0394	
41	Total Hexa-Dioxins				0.892	10.000	33.635		0.000				0.0716	
42	Total Hepta-Dioxins				0.864	10.000	37.640		0.000				0.107	
43	Total Tetra-Furans				0.751	10.000	23.610		0.000				0.0205	
44	1st Func. Penta-Furans				0.893	10.000	27.580		0.000				0.0145	
45	Total Penta-Furans				0.893	10.000	29.275		0.000				0.0216	
46	Total Hexa-Furans				0.934	10.000	33.555		0.000				0.0348	
47	Total Hepta-Furans				0.873	10.000	37.835		0.000				0.0548	

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

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

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

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

Calibration: U:\VG12.PRO\CurveDB\ldb5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1\_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

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

Penta-Furans function 1

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

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

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

Name: 200604R1\_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

**Penta-Furans**

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

**Hexa-Furans**

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

**Hepta-Furans**

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

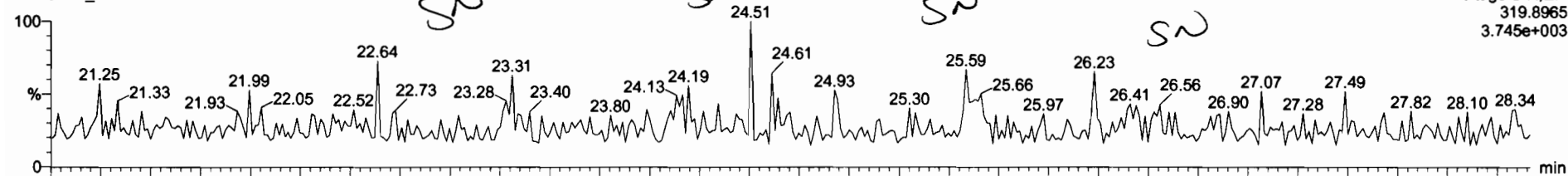
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Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

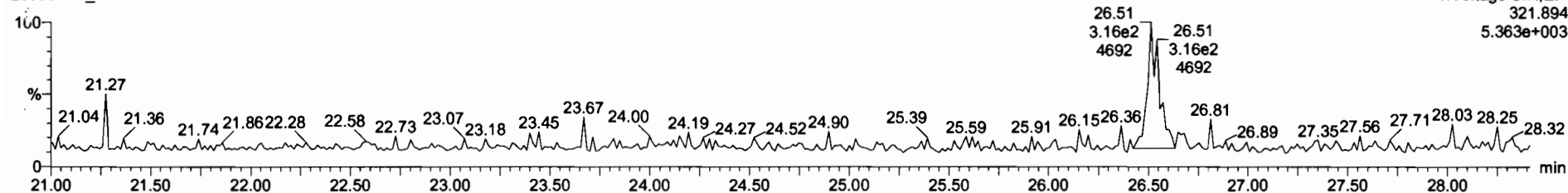
**2,3,7,8-TCDD**

200604R1\_4



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

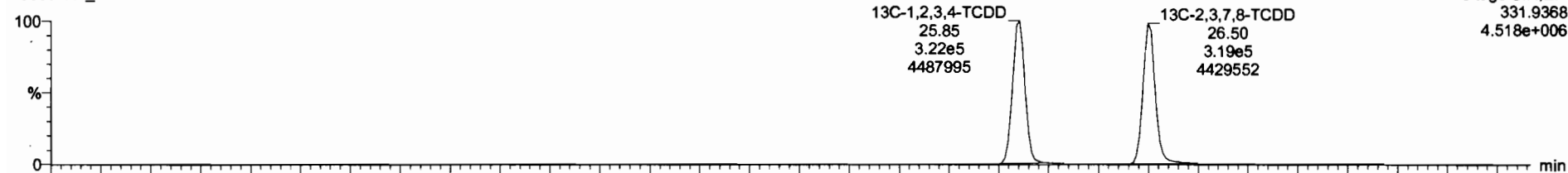
200604R1\_4



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

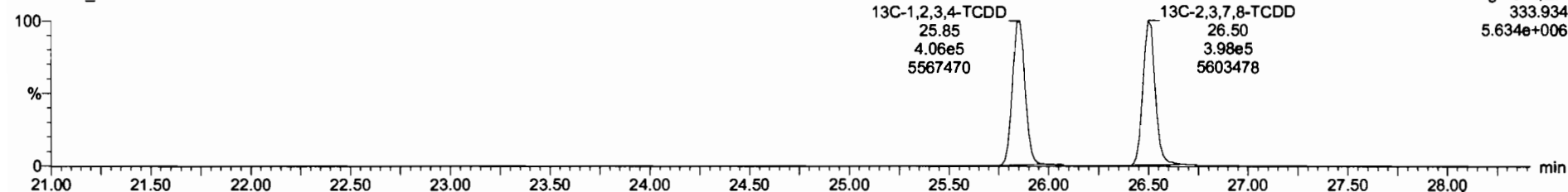
**13C-2,3,7,8-TCDD**

200604R1\_4



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

200604R1\_4



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

Dataset: Untitled

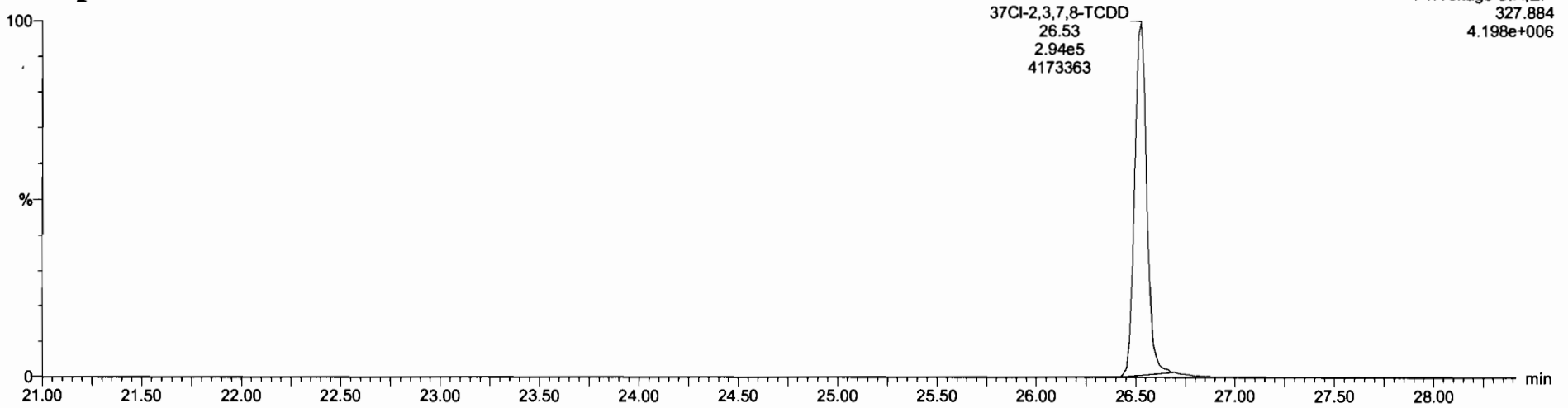
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time

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

Name: 200604R1\_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

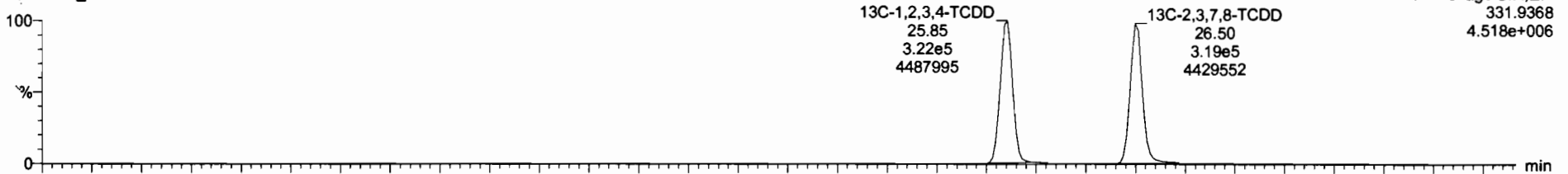
**<sup>37</sup>Cl-2,3,7,8-TCDD**

200604R1\_4

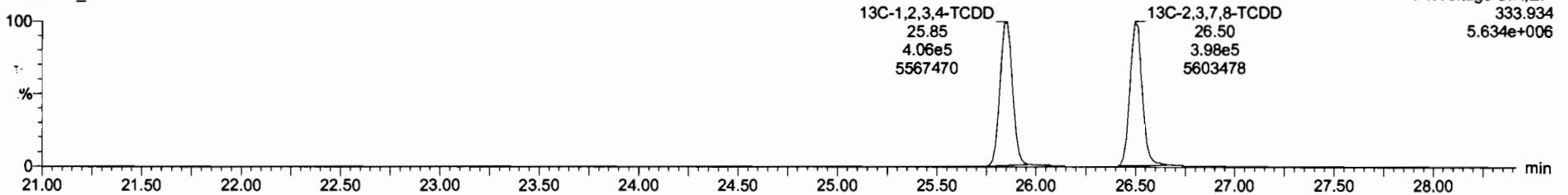


**<sup>13</sup>C-1,2,3,4-TCDD**

200604R1\_4



200604R1\_4



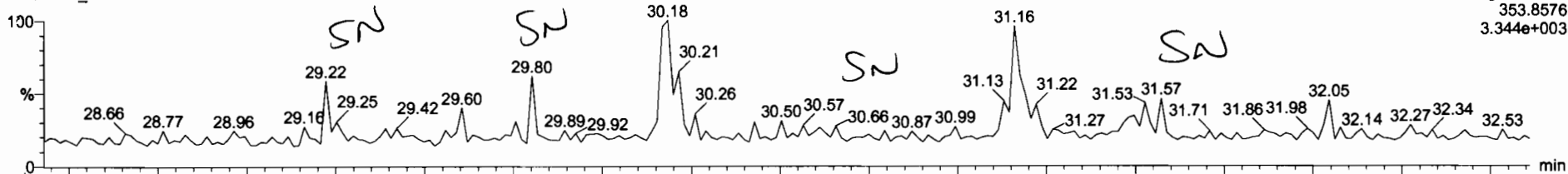
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Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

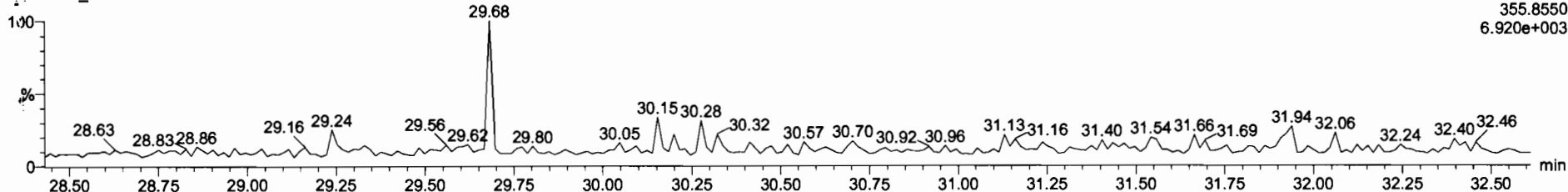
Name: 200604R1\_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDD

200604R1\_4

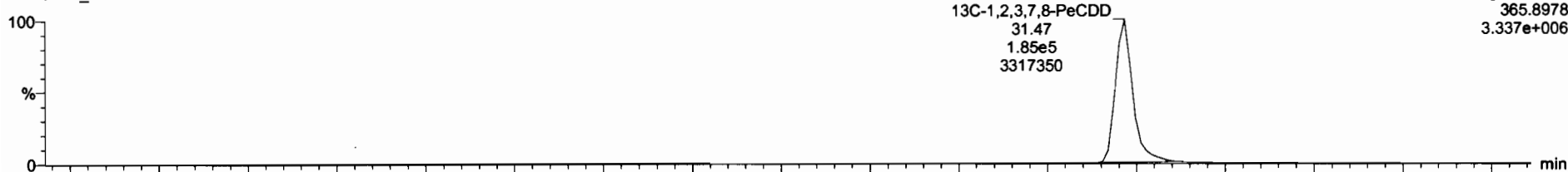


200604R1\_4

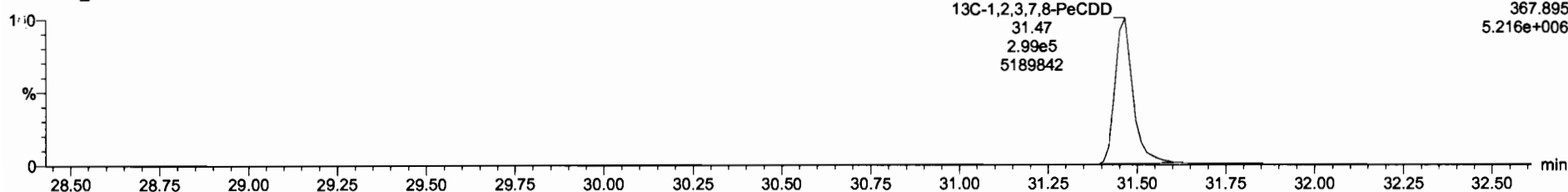


13C-1,2,3,7,8-PeCDD

200604R1\_4



200604R1\_4



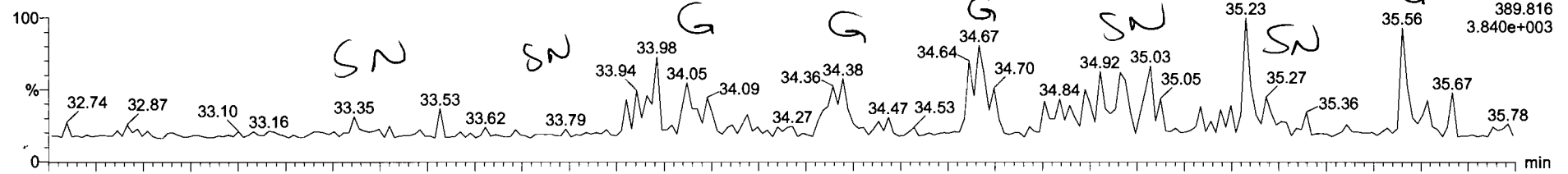
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

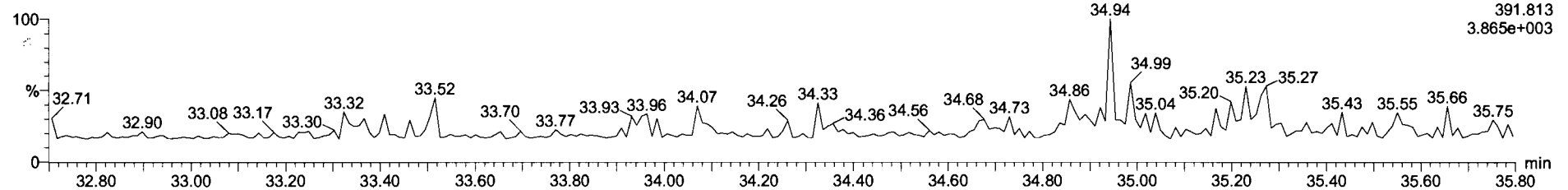
Name: 200604R1\_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

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

200604R1\_4

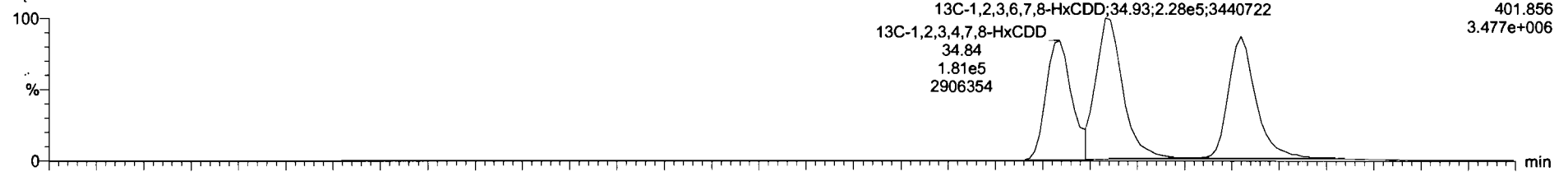


200604R1\_4

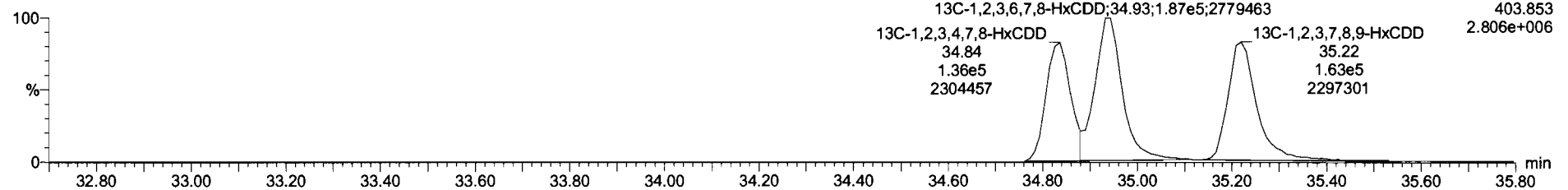


13C-1,2,3,4,7,8-HxCDD

200604R1\_4



200604R1\_4



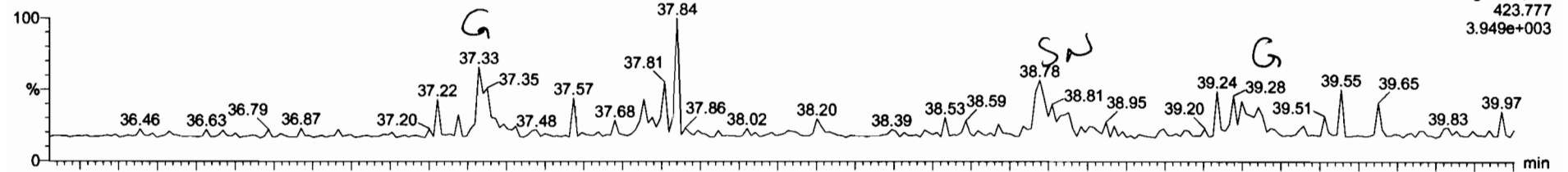
Dataset: Untitled

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

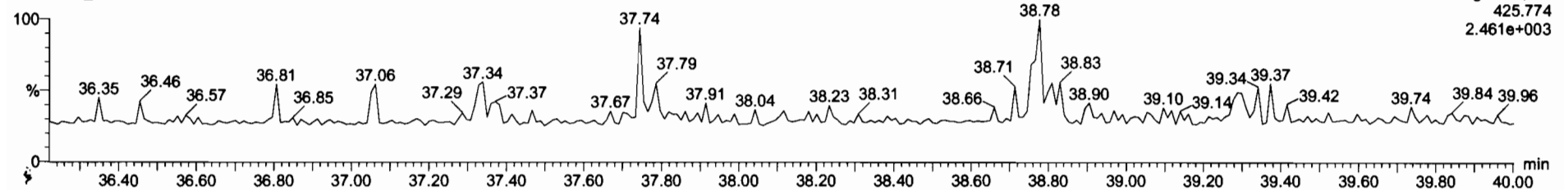
Name: 200604R1\_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

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

200604R1\_4

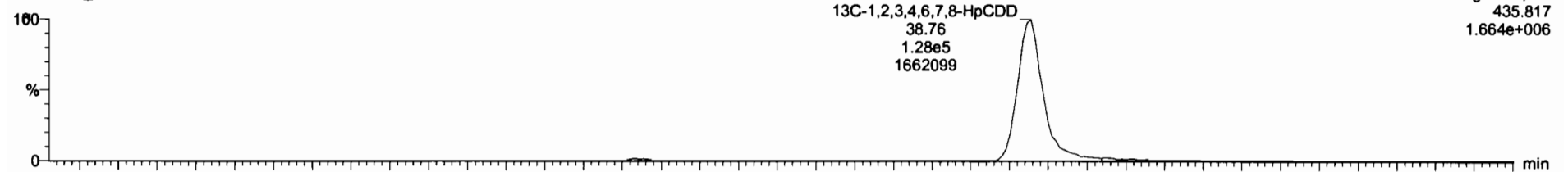


200604R1\_4

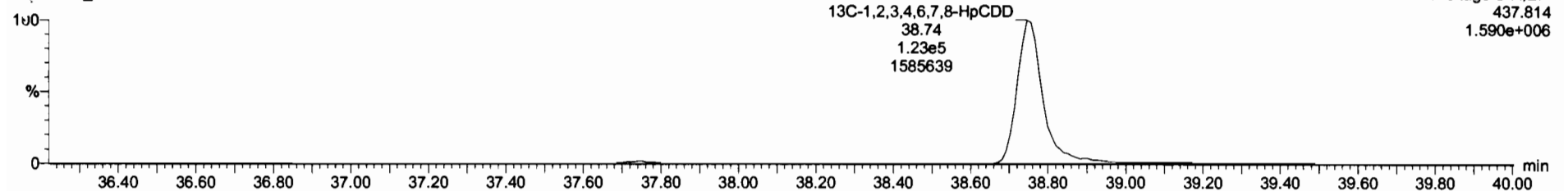


13C-1,2,3,4,6,7,8-HpCDD

200604R1\_4



200604R1\_4

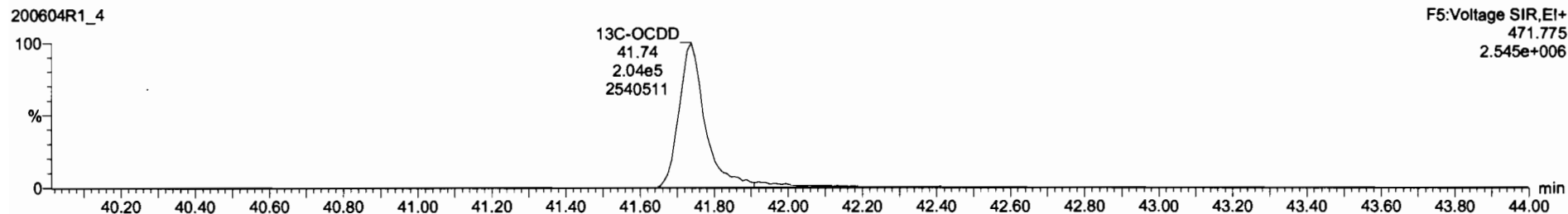
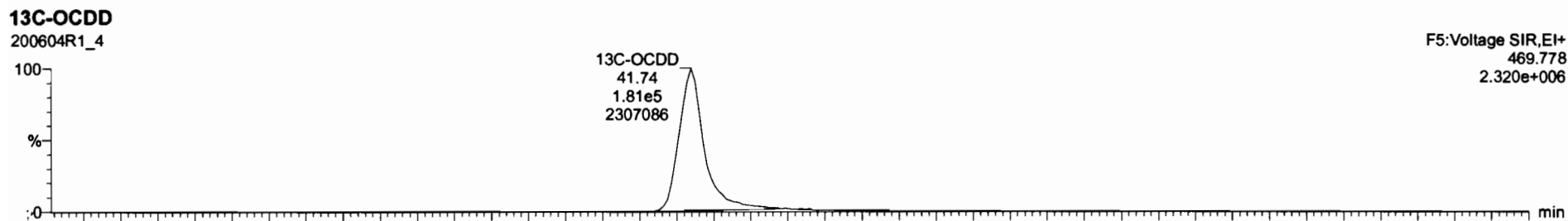
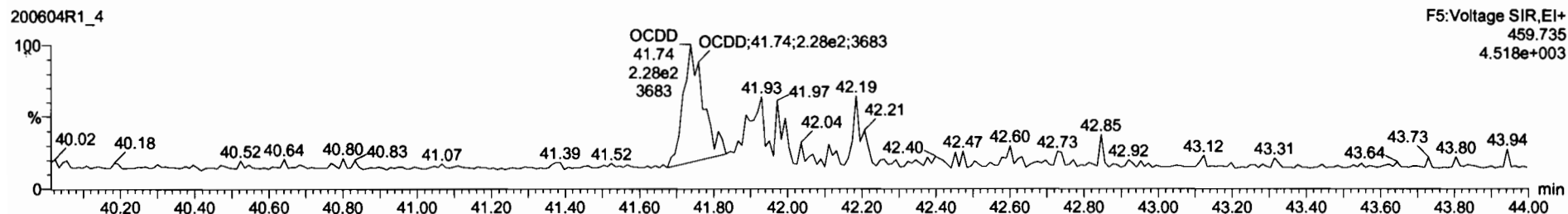
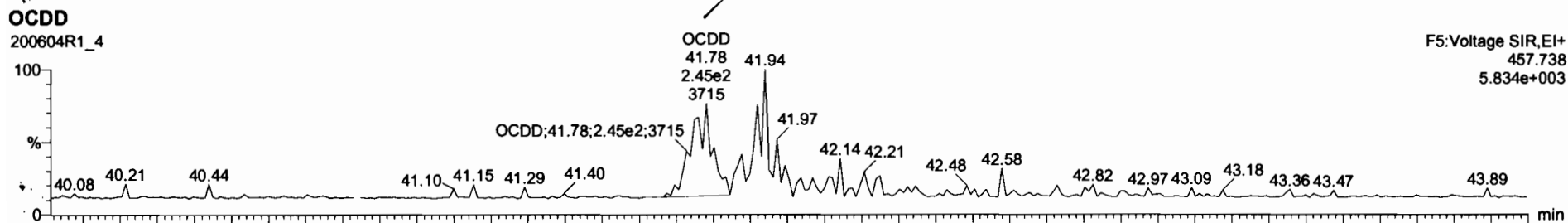


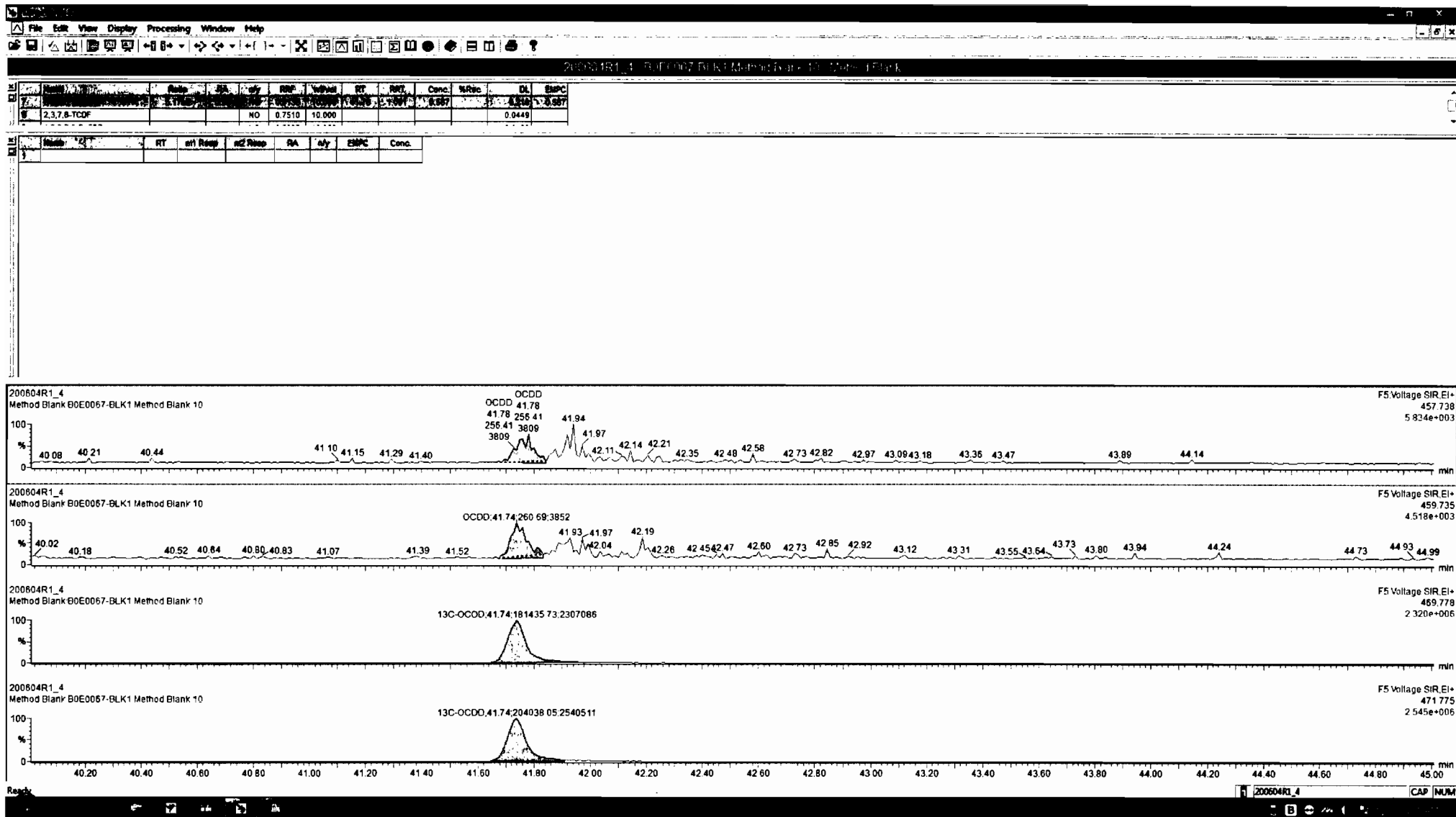


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Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank



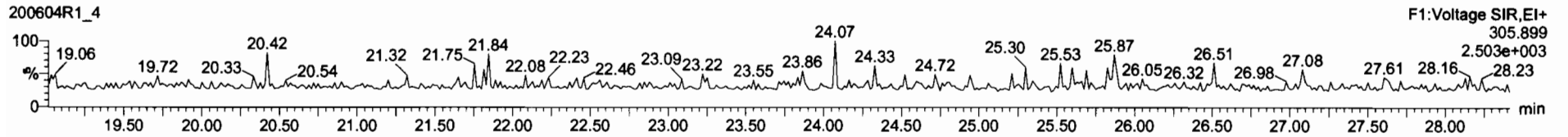
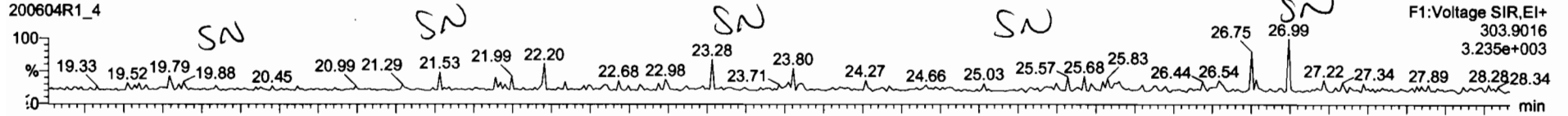


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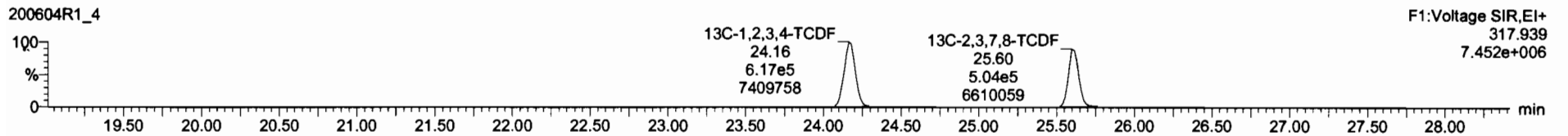
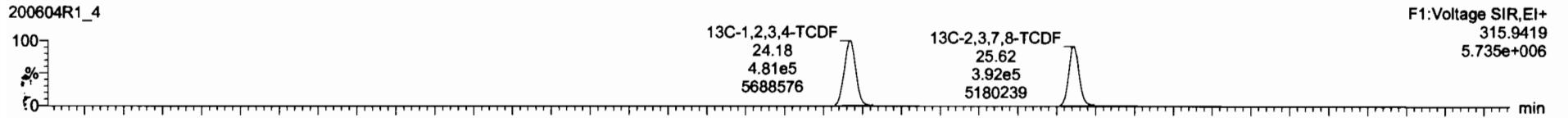
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

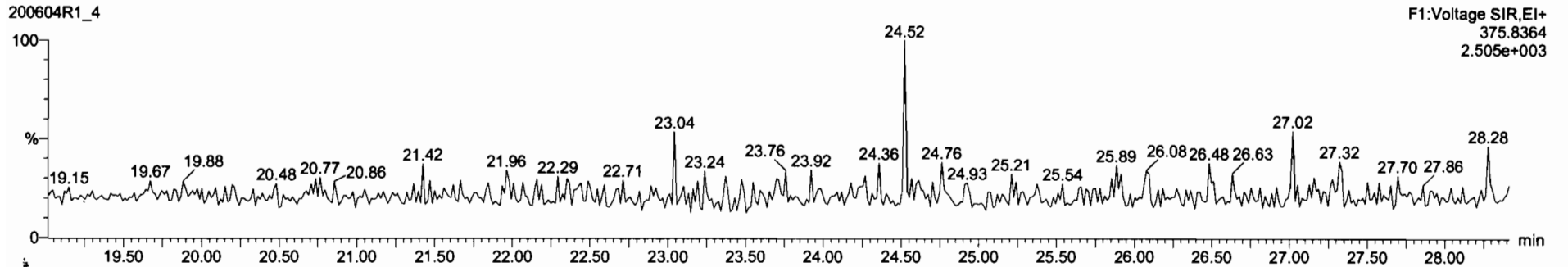
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

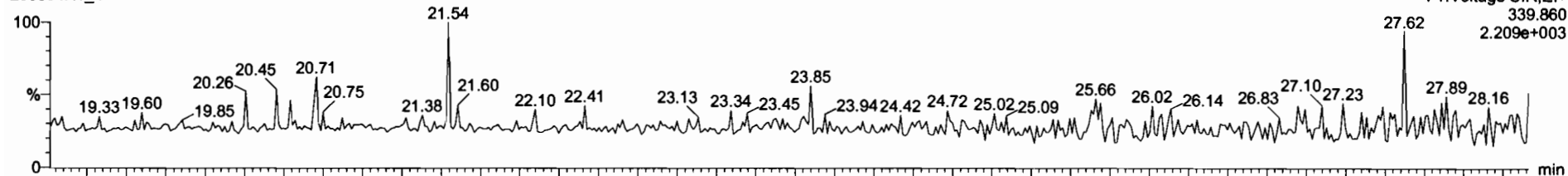
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time

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

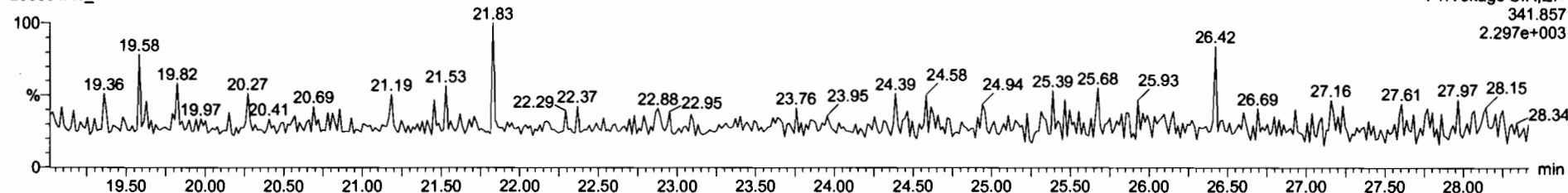
Name: 200604R1\_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

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200604R1\_4

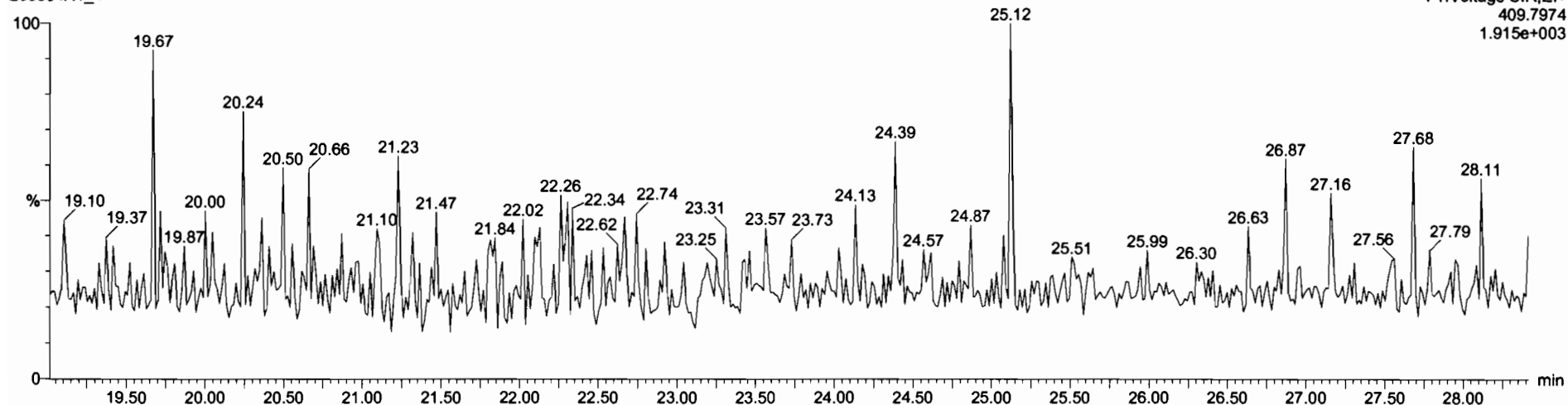


200604R1\_4



DPE6

200604R1\_4

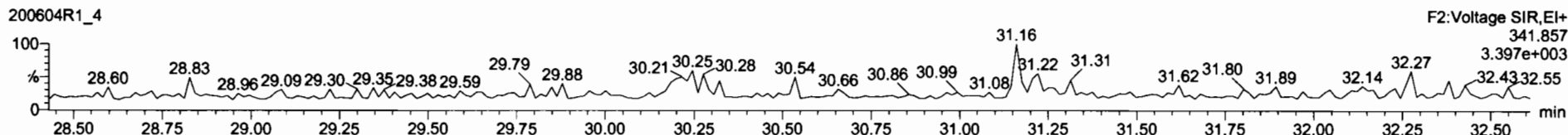
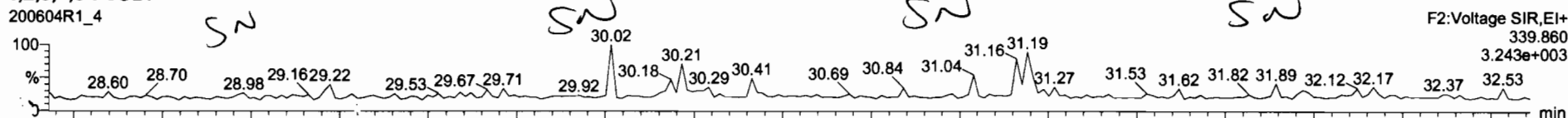


Dataset: Untitled

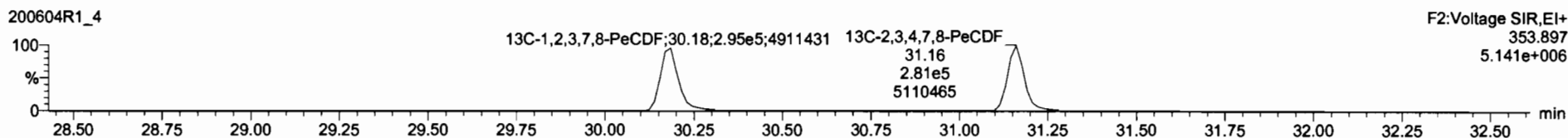
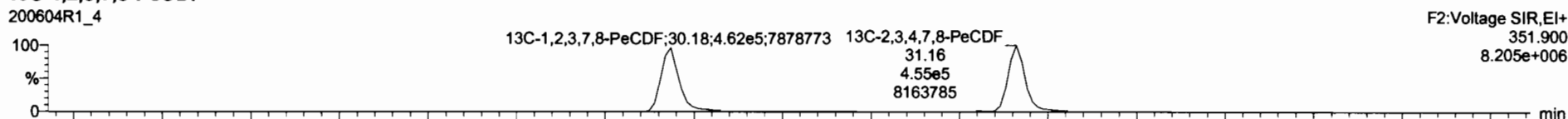
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

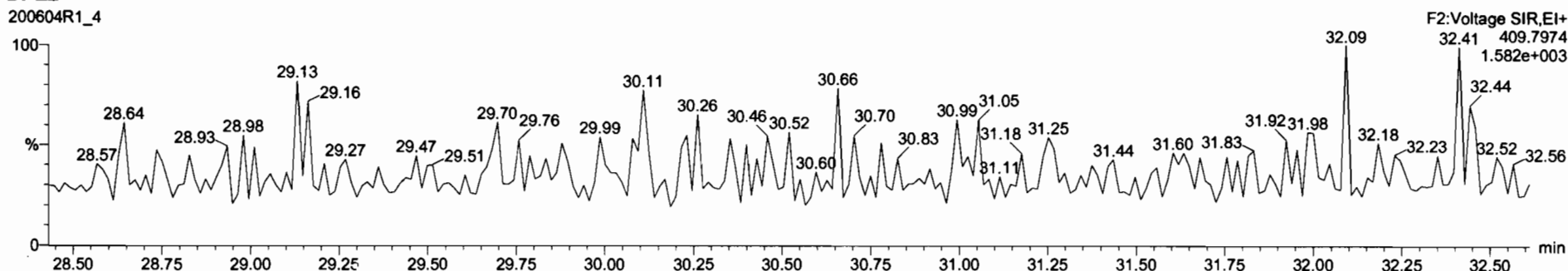
1,2,3,7,8-PeCDF



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



DPE2

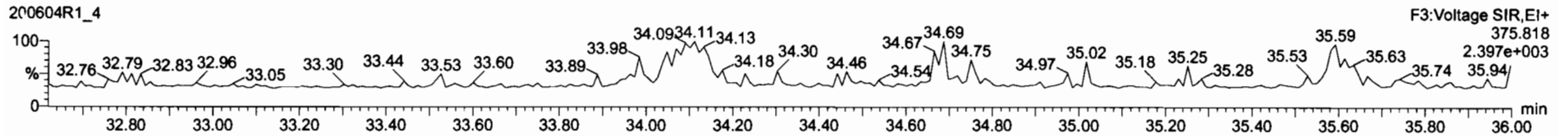
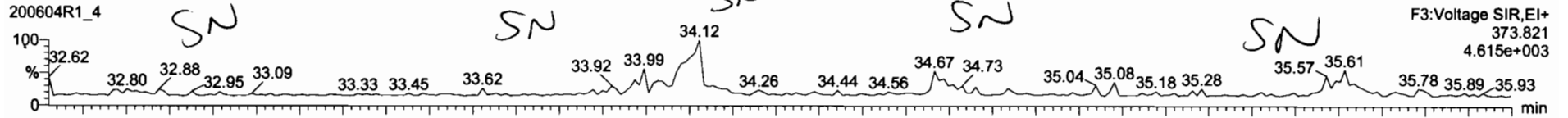


Dataset: Untitled

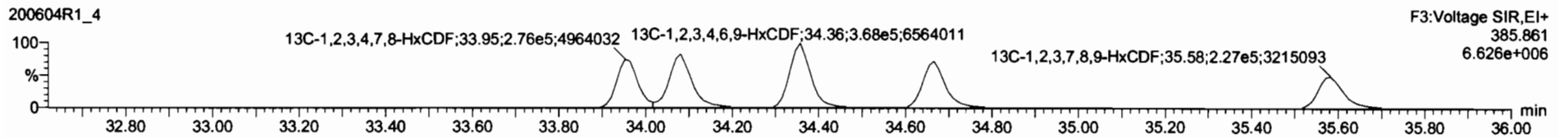
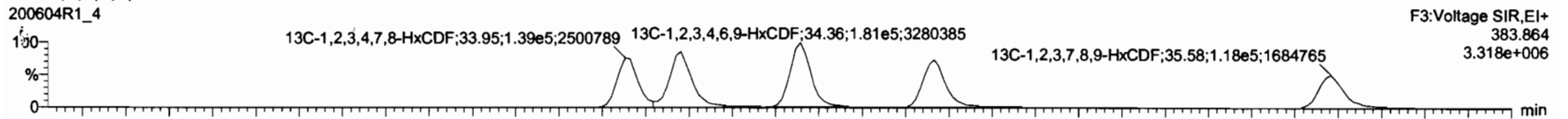
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

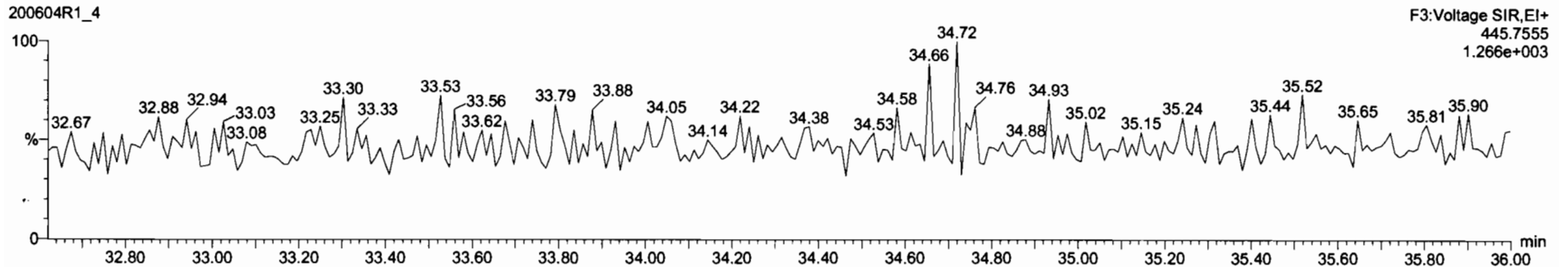
1,2,3,4,7,8-HxCDF



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



DPE3



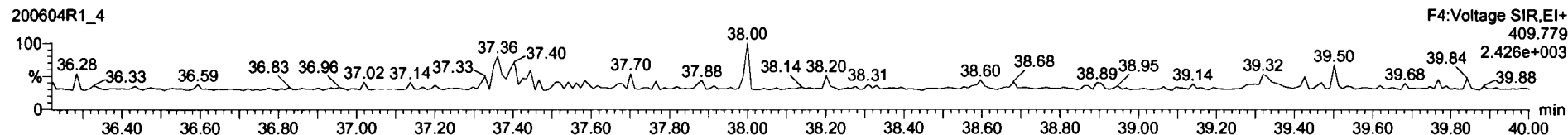
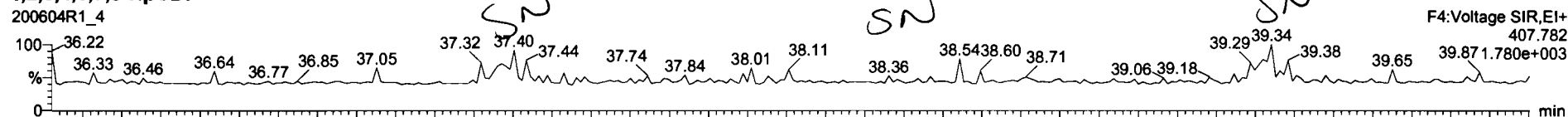
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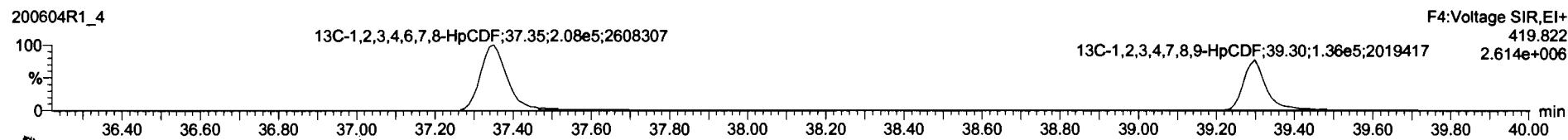
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Name: 200604R1\_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

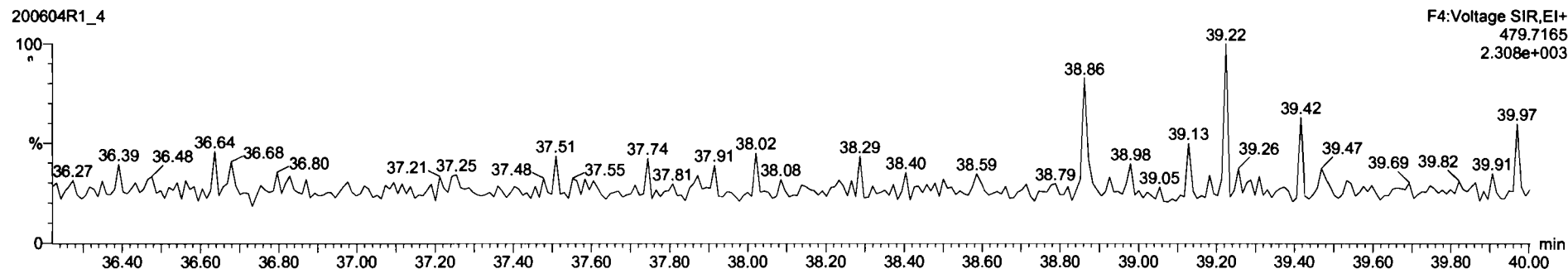
**1,2,3,4,6,7,8-HpCDF**



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



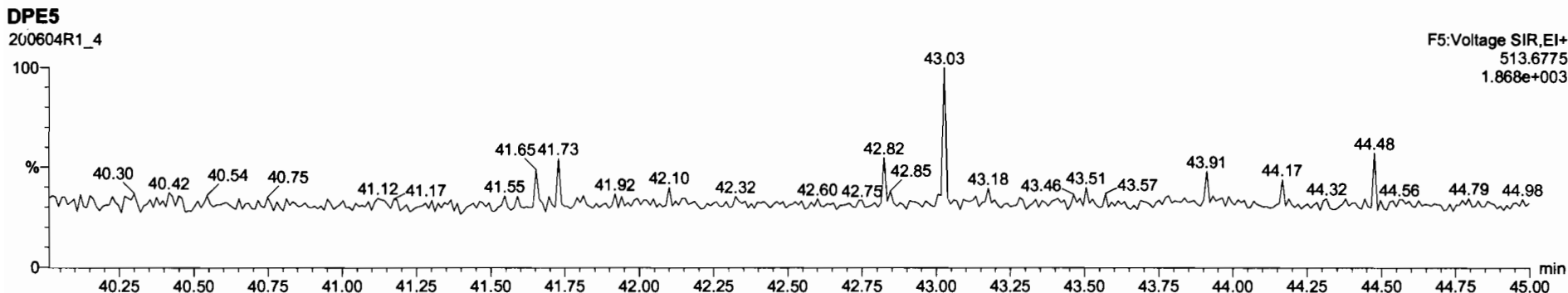
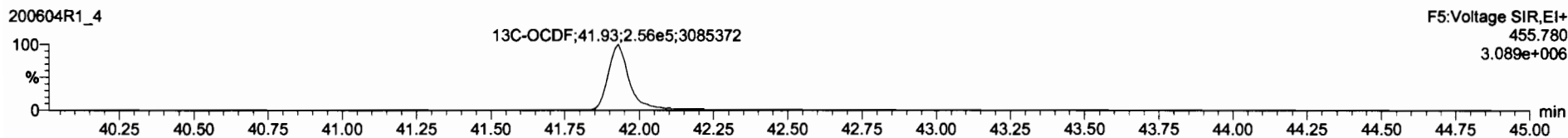
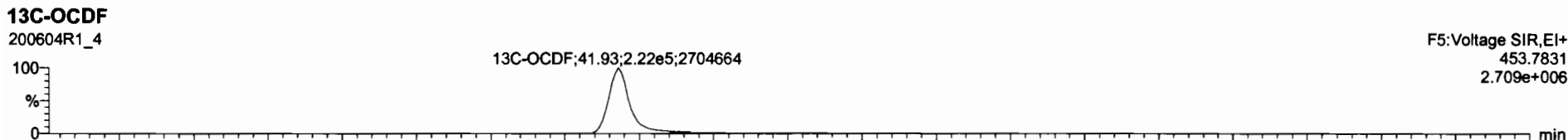
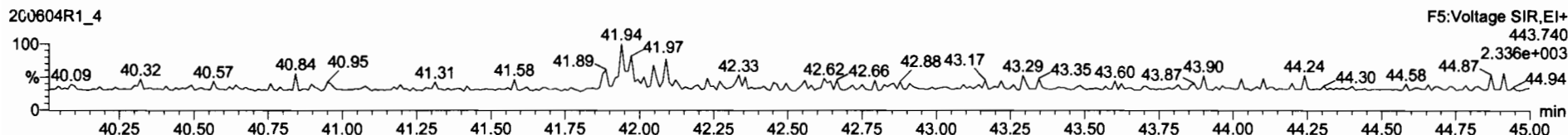
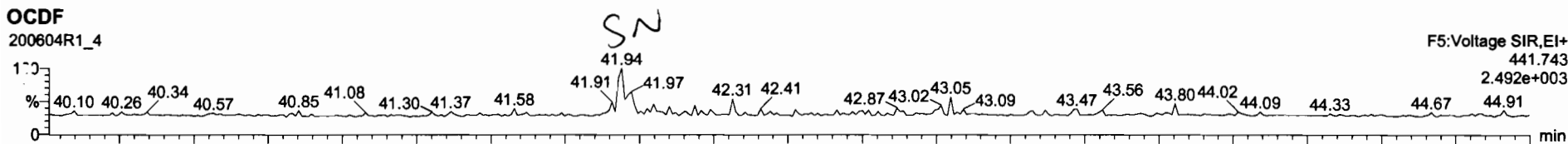
**DPE4**



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

Name: 200604R1\_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank

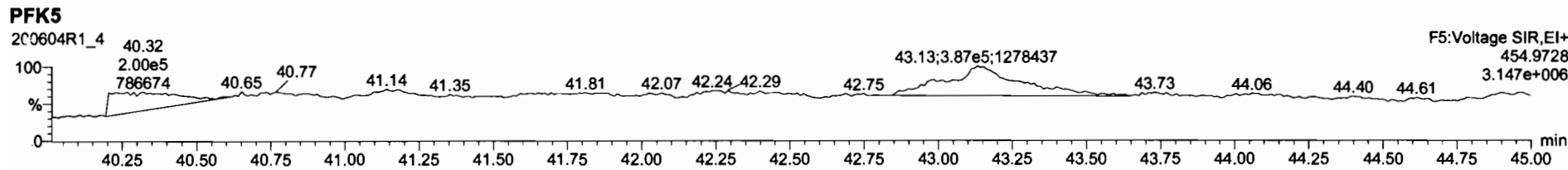
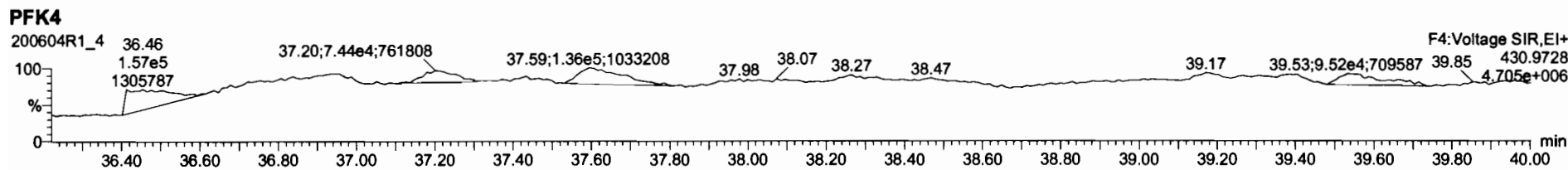
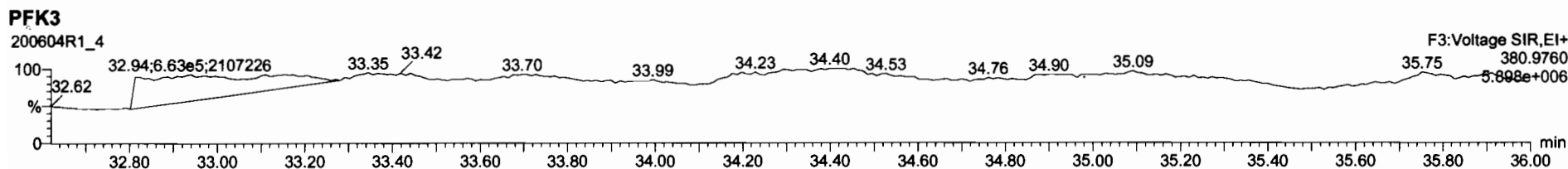
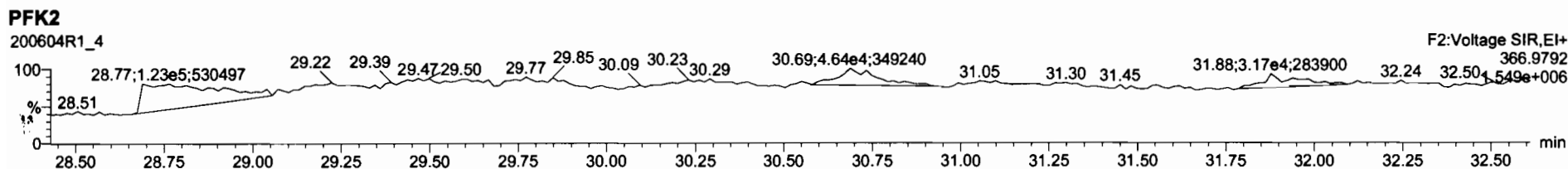
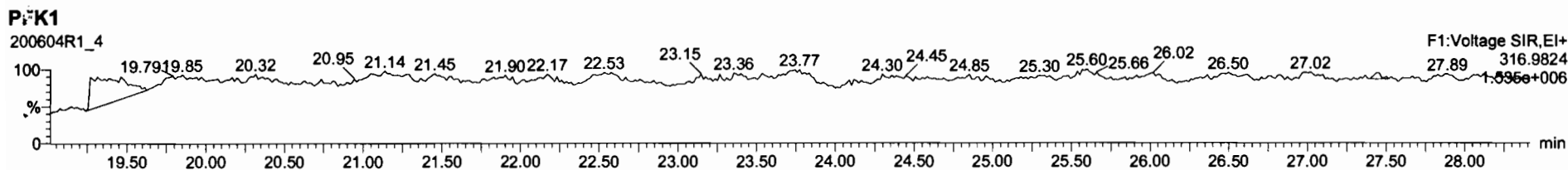




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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_4, Date: 04-Jun-2020, Time: 10:35:05, ID: B0E0067-BLK1 Method Blank 10, Description: Method Blank



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

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

*GRB 06/05/2020*

*CT06/09/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45  
Callibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1\_2, Date: 04-Jun-2020, Time: 09:01:24, ID: B0E0067-BS1 OPR 10, Description: OPR

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

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

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

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

Name: 200604R1\_2, Date: 04-Jun-2020, Time: 09:01:24, ID: B0E0067-BS1 OPR 10, Description: OPR

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

Dataset: Untitled

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

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

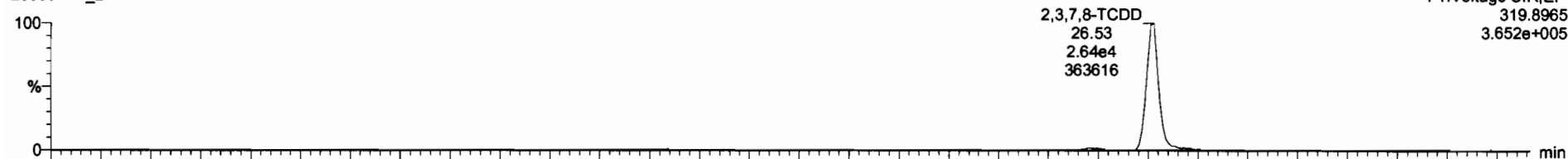
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Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

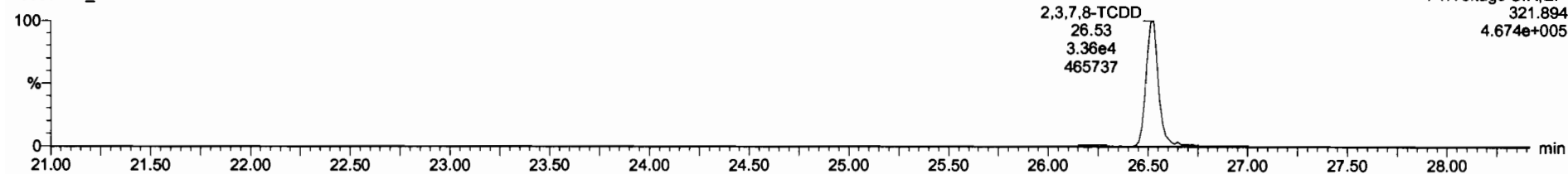
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**2,3,7,8-TCDD**

200604R1\_2

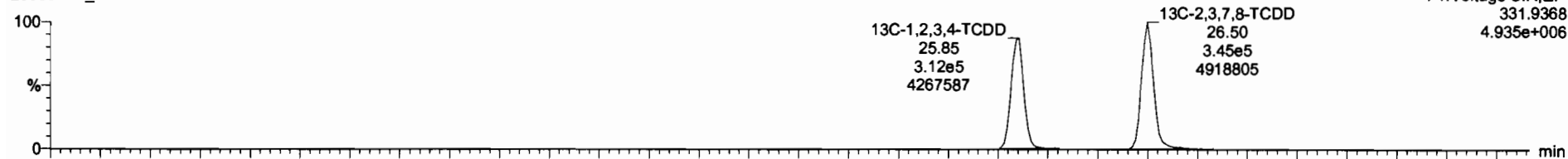


200604R1\_2

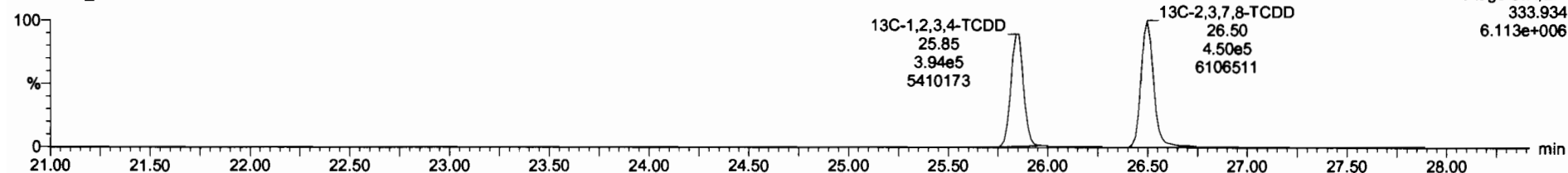


**13C-2,3,7,8-TCDD**

200604R1\_2



200604R1\_2



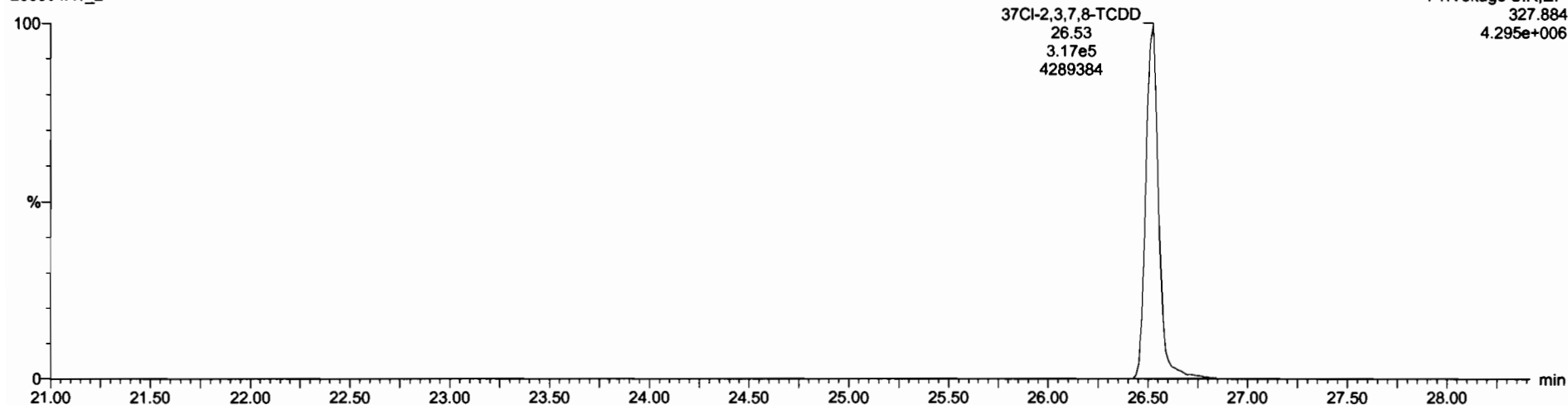
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_2, Date: 04-Jun-2020, Time: 09:01:24, ID: B0E0067-BS1 OPR 10, Description: OPR

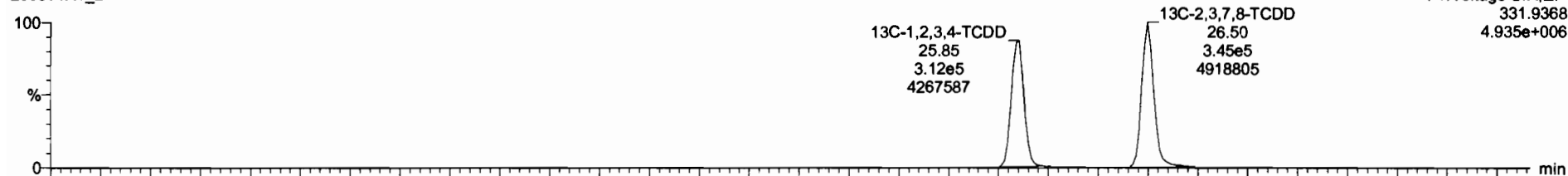
3: CI-2,3,7,8-TCDD

200604R1\_2

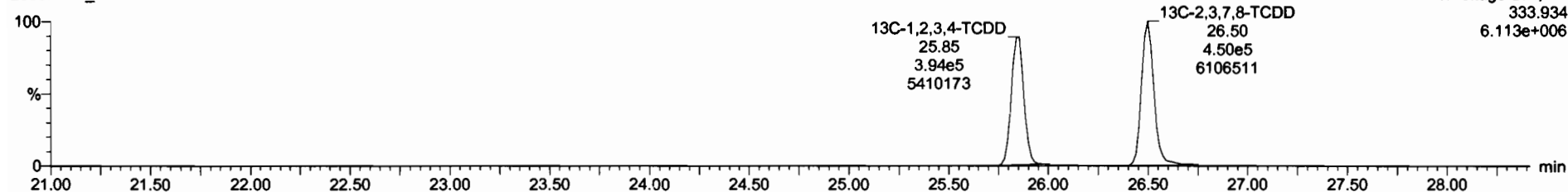


13C-1,2,3,4-TCDD

200604R1\_2



200604R1\_2



Dataset: Untitled

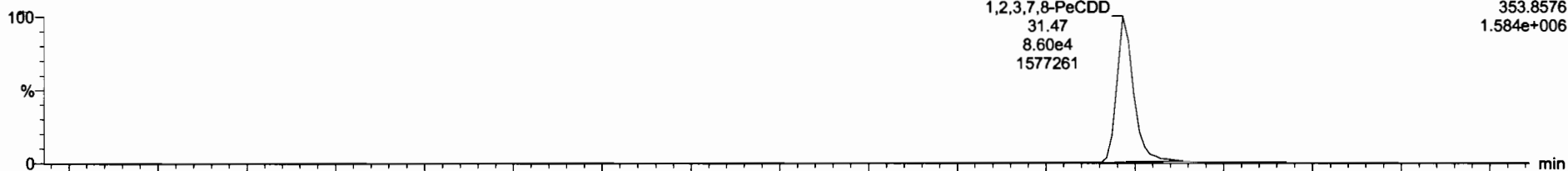
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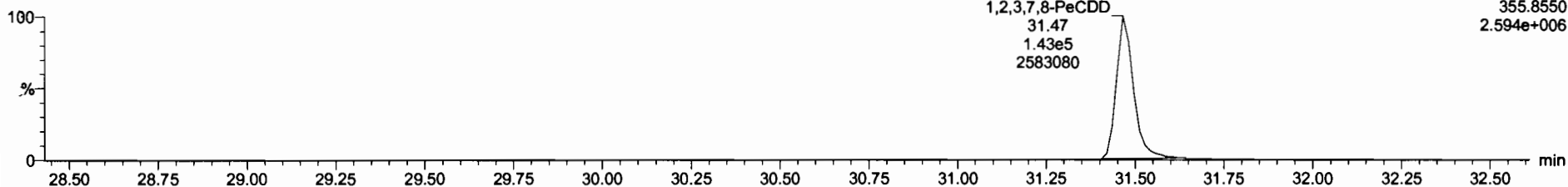
Name: 200604R1\_2, Date: 04-Jun-2020, Time: 09:01:24, ID: B0E0067-BS1 OPR 10, Description: OPR

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

200604R1\_2

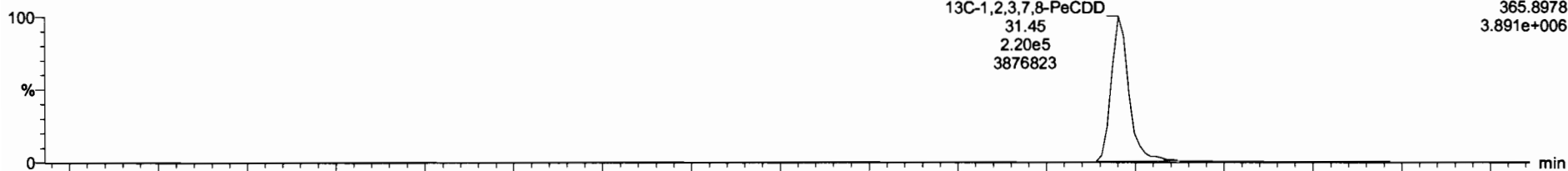


200604R1\_2

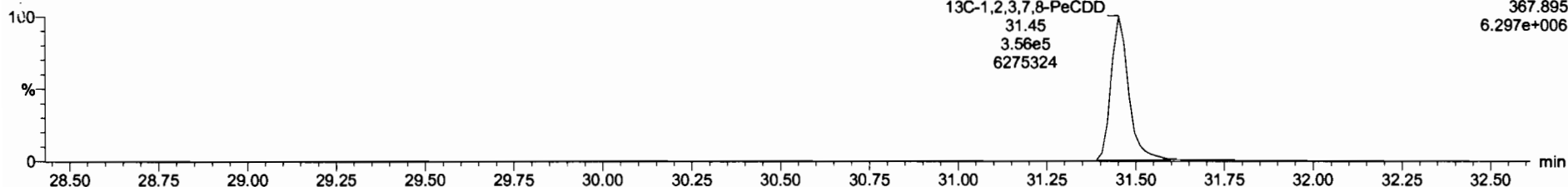


**13C-1,2,3,7,8-PeCDD**

200604R1\_2



200604R1\_2



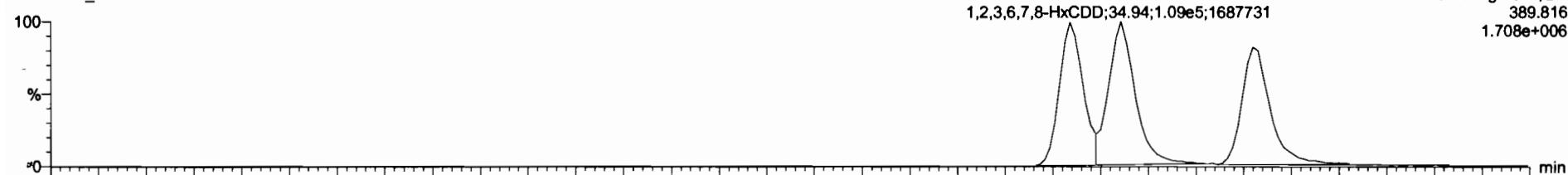
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

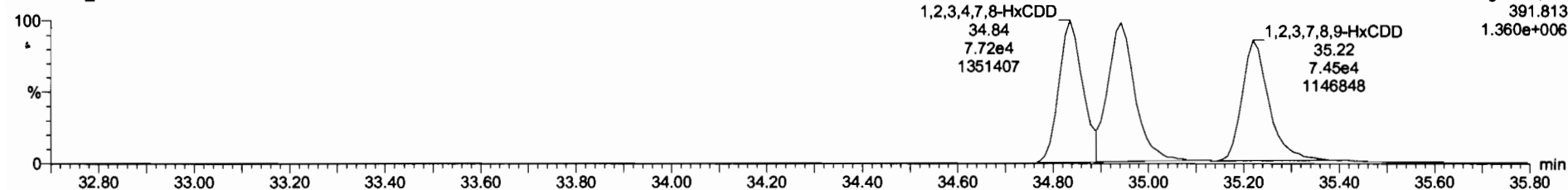
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1,2,3,4,7,8-HxCDD

200604R1\_2

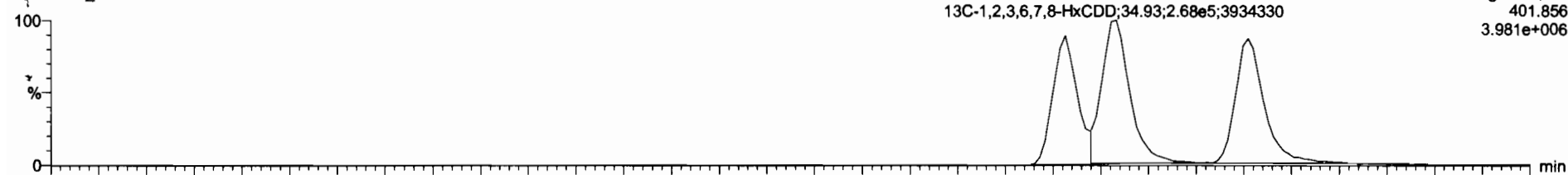


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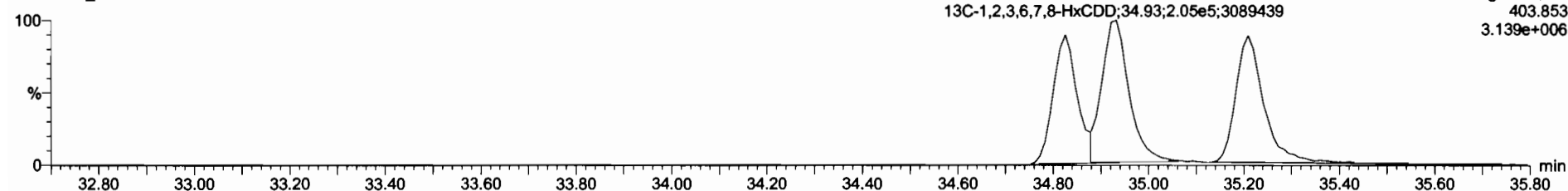


13C-1,2,3,4,7,8-HxCDD

200604R1\_2



200604R1\_2



Dataset: Untitled

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

Name: 200604R1\_2, Date: 04-Jun-2020, Time: 09:01:24, ID: B0E0067-BS1 OPR 10, Description: OPR

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

200604R1\_2

1,2,3,4,6,7,8-HpCDD  
38.76  
5.78e4  
804342

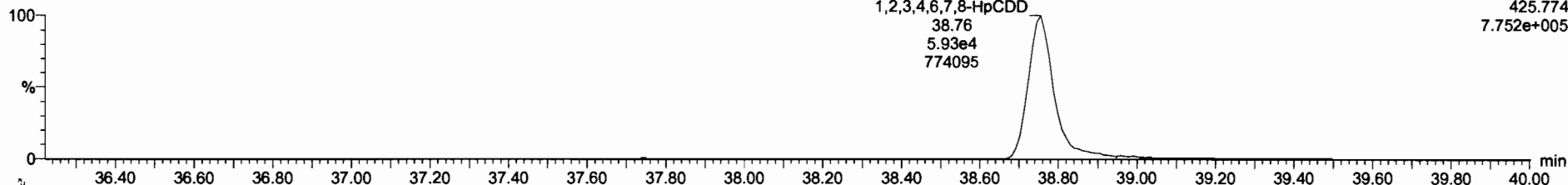
F4:Voltage SIR,EI+  
423.777  
8.123e+005



200604R1\_2

1,2,3,4,6,7,8-HpCDD  
38.76  
5.93e4  
774095

F4:Voltage SIR,EI+  
425.774  
7.752e+005

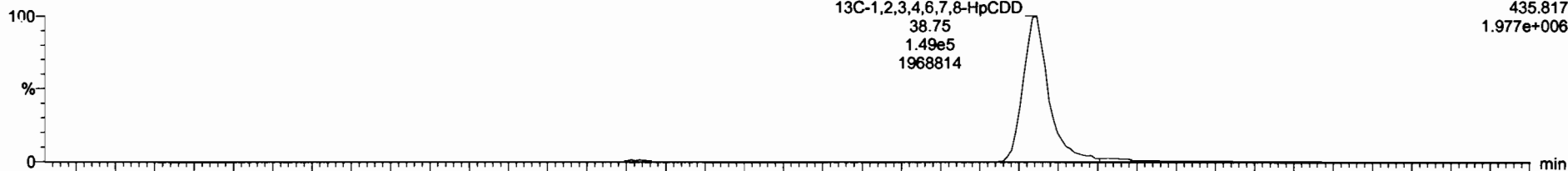


**13C-1,2,3,4,6,7,8-HpCDD**

200604R1\_2

13C-1,2,3,4,6,7,8-HpCDD  
38.75  
1.49e5  
1968814

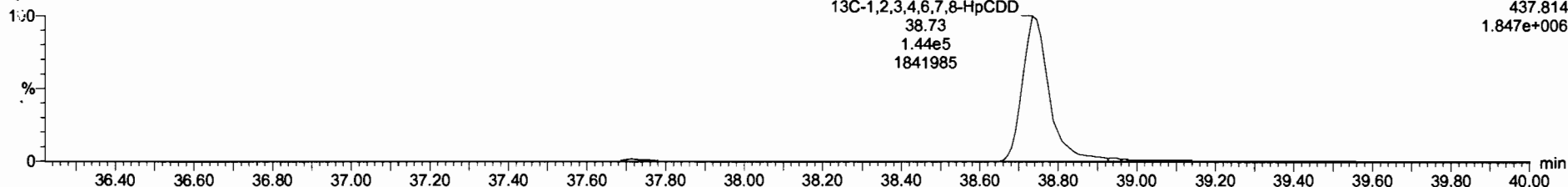
F4:Voltage SIR,EI+  
435.817  
1.977e+006



200604R1\_2

13C-1,2,3,4,6,7,8-HpCDD  
38.73  
1.44e5  
1841985

F4:Voltage SIR,EI+  
437.814  
1.847e+006

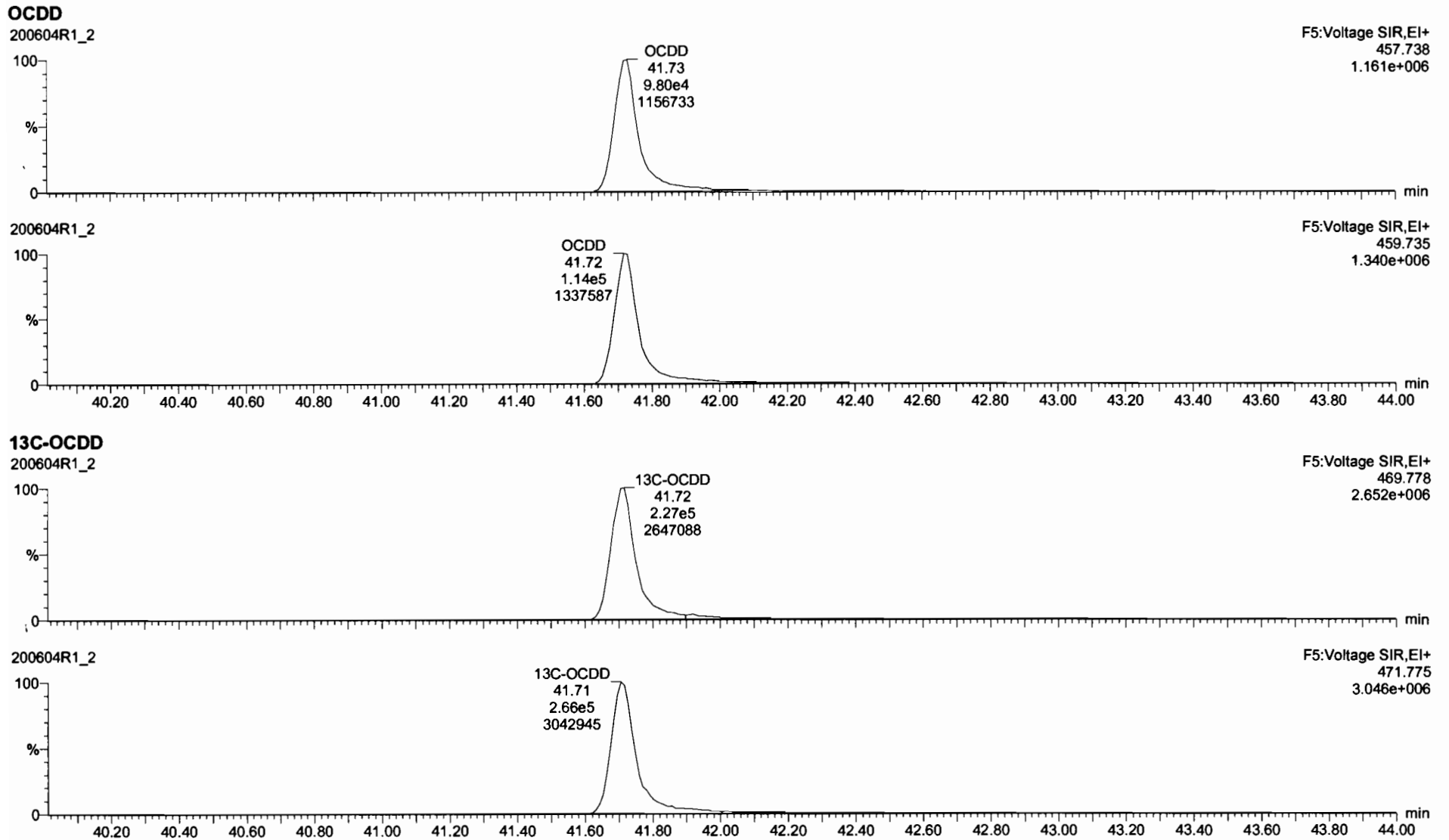




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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_2, Date: 04-Jun-2020, Time: 09:01:24, ID: B0E0067-BS1 OPR 10, Description: OPR



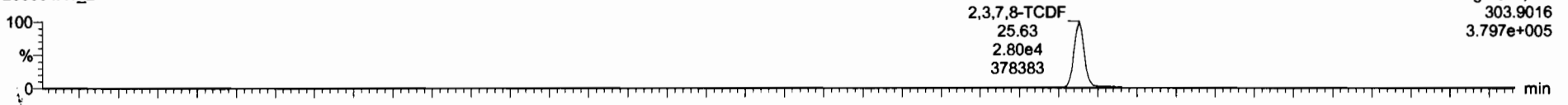
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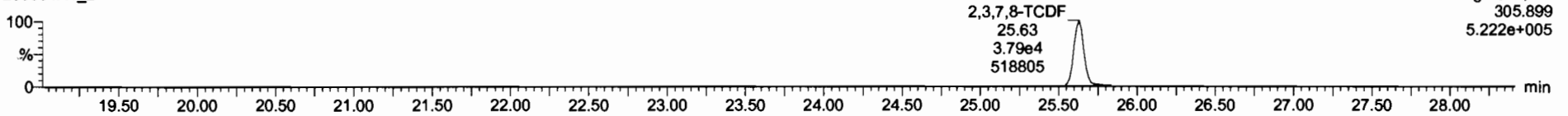
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**2,3,7,8-TCDF**

200604R1\_2

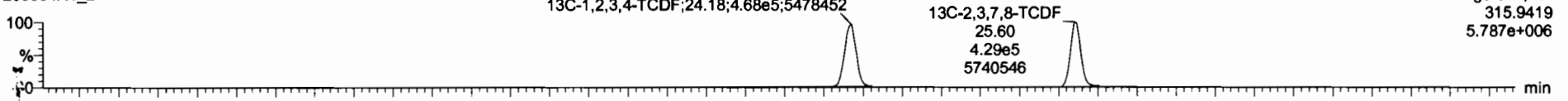


200604R1\_2

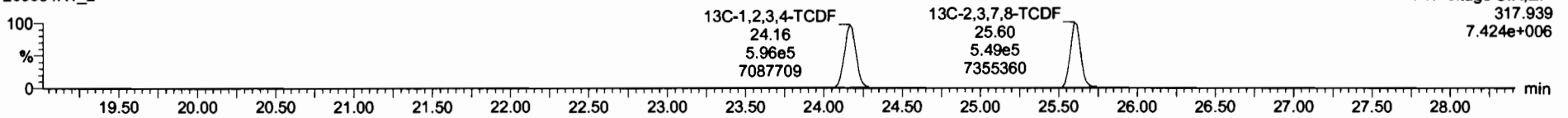


**13C-2,3,7,8-TCDF**

200604R1\_2

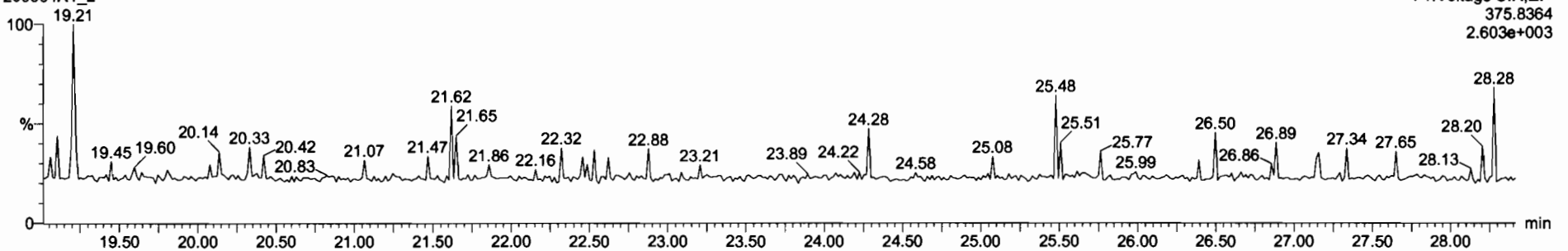


200604R1\_2



**DPE1**

200604R1\_2



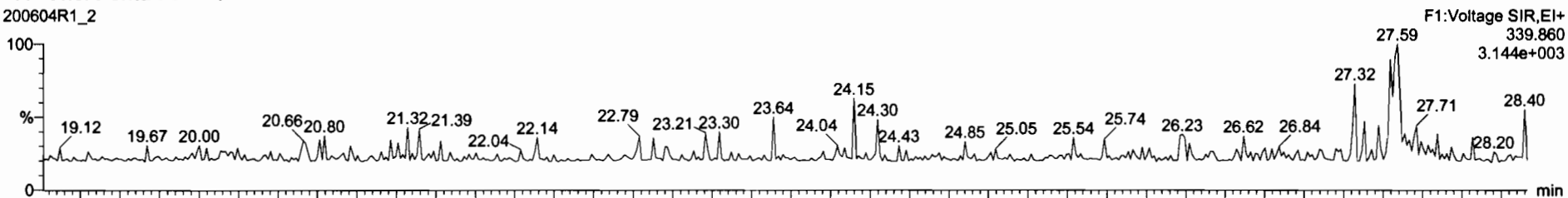
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Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

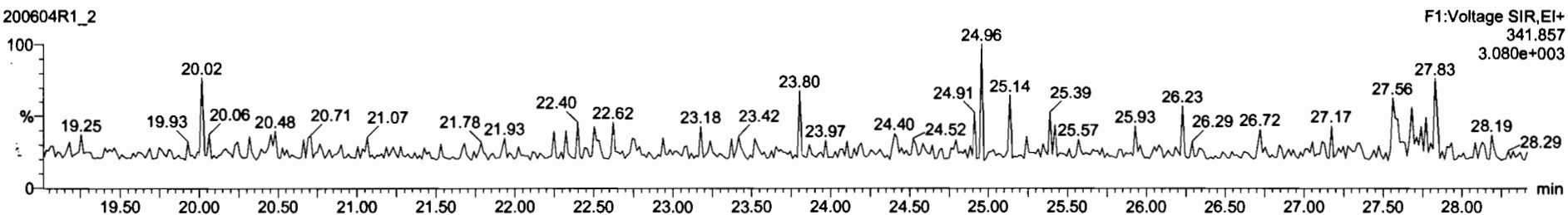
Name: 200604R1\_2, Date: 04-Jun-2020, Time: 09:01:24, ID: B0E0067-BS1 OPR 10, Description: OPR

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200604R1\_2

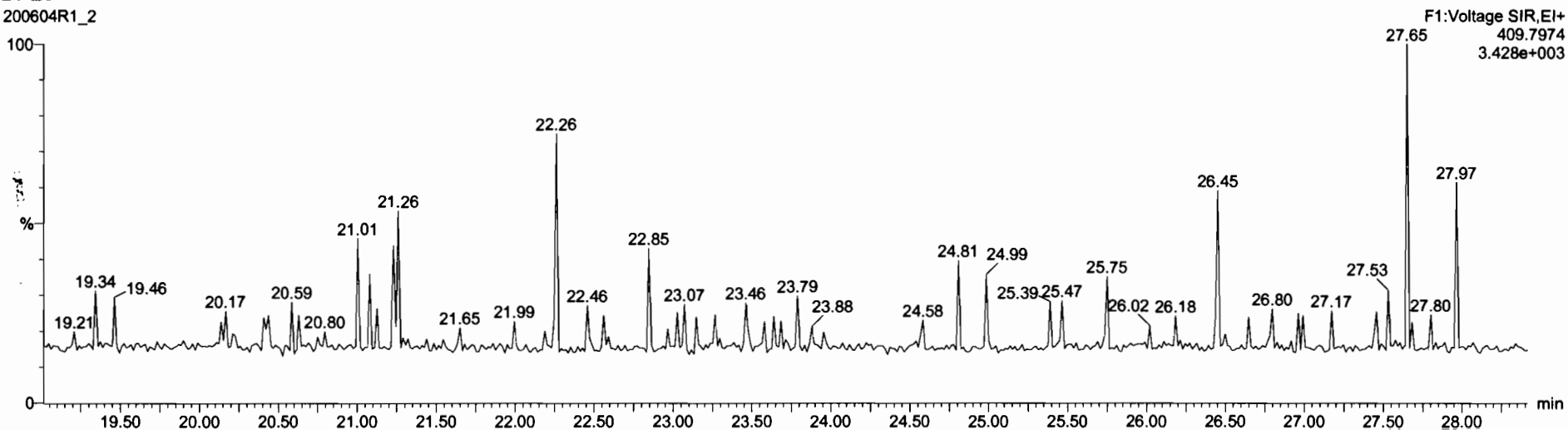


200604R1\_2



DPE6

200604R1\_2



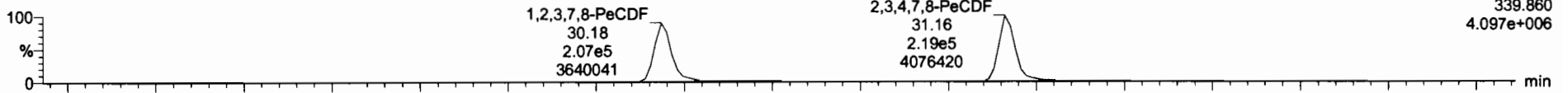
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Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
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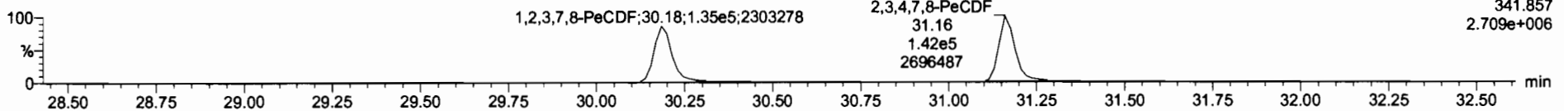
Name: 200604R1\_2, Date: 04-Jun-2020, Time: 09:01:24, ID: B0E0067-BS1 OPR 10, Description: OPR

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

200604R1\_2

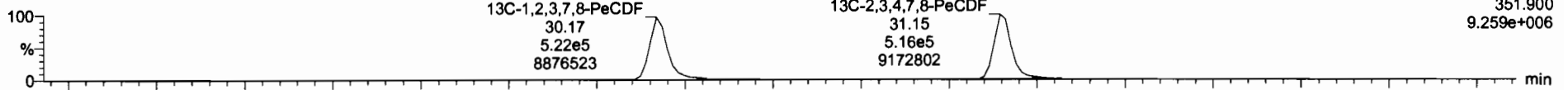


200604R1\_2

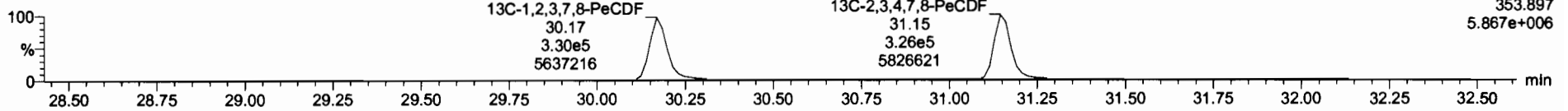


**13C-1,2,3,7,8-PeCDF**

200604R1\_2

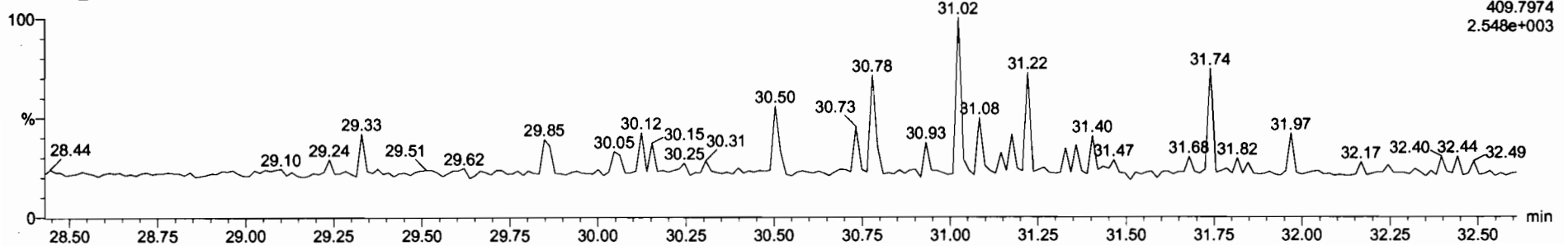


200604R1\_2



**DPE2**

200604R1\_2



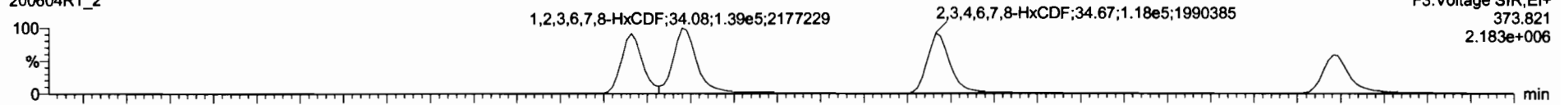
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_2, Date: 04-Jun-2020, Time: 09:01:24, ID: B0E0067-BS1 OPR 10, Description: OPR

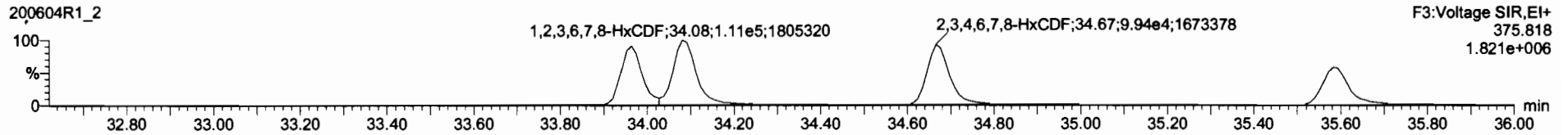
**1,2,3,4,7,8-HxCDF**

200604R1\_2



F3:Voltage SIR,EI+  
373.821  
2.183e+006

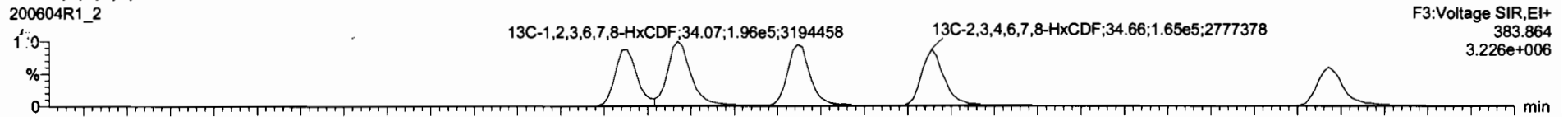
200604R1\_2



F3:Voltage SIR,EI+  
375.818  
1.821e+006

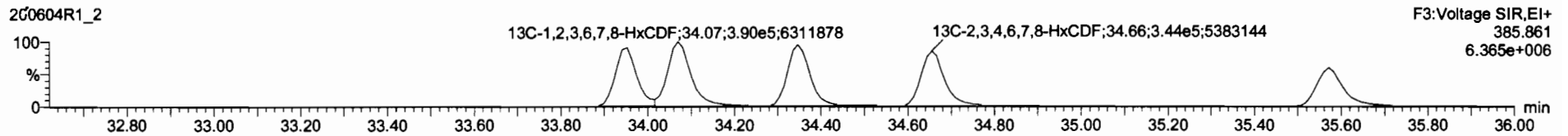
**13C-1,2,3,4,7,8-HxCDF**

200604R1\_2



F3:Voltage SIR,EI+  
383.864  
3.226e+006

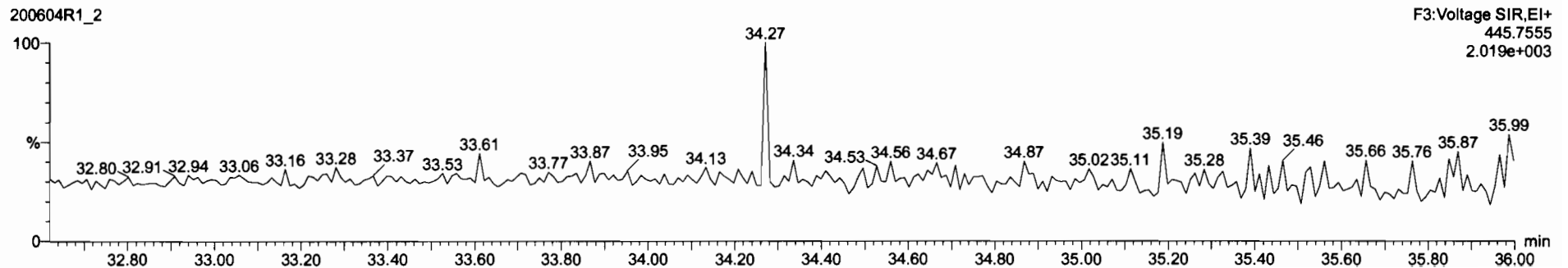
200604R1\_2



F3:Voltage SIR,EI+  
385.861  
6.365e+006

**DPE3**

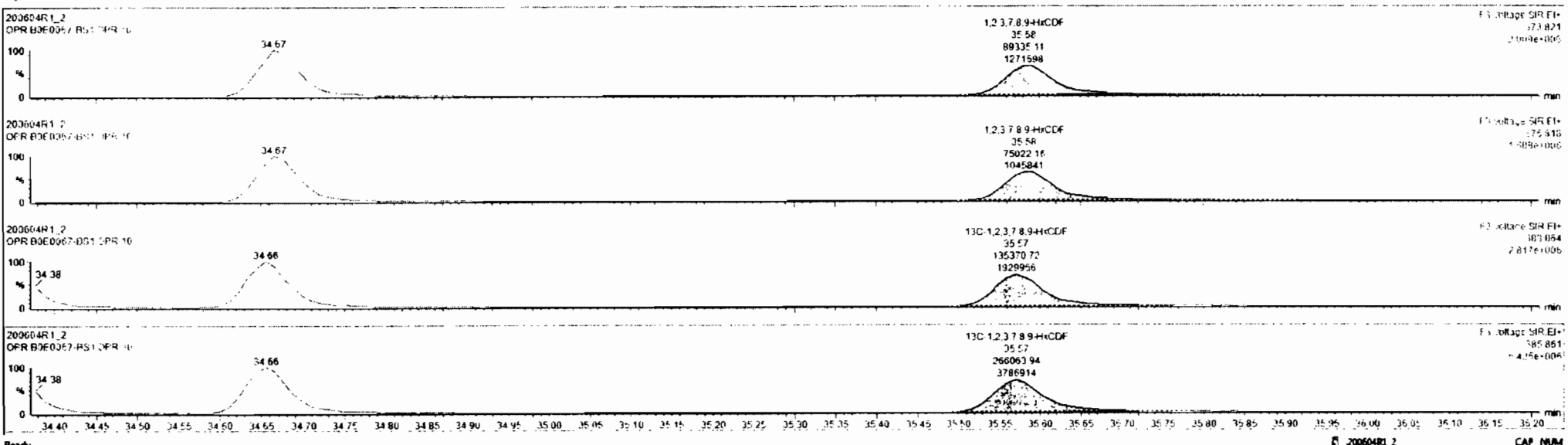
200604R1\_2



F3:Voltage SIR,EI+  
445.7555  
2.019e+003

SI	Name	Resp	RA	aly	RSP	wVol	RT	RRT	Conc	%Rec	DL	EMPC
13	2,3,4,6,7,8-HxCDF	2.17e5	1.19	NO	0.9341	10.000	34.67	1.000	91.5	0.326	91.5	
14	1,2,3,4,6,7,8-HxCDF	1.84e5	1.19	NO	0.8727	10.000	35.58	1.000	94.9	0.528	94.9	

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



Dataset: Untitled

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

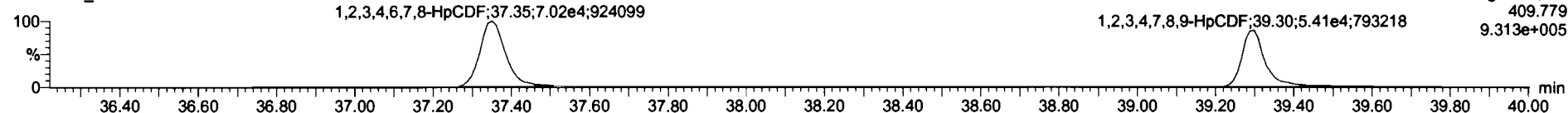
Name: 200604R1\_2, Date: 04-Jun-2020, Time: 09:01:24, ID: B0E0067-BS1 OPR 10, Description: OPR

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

200604R1\_2

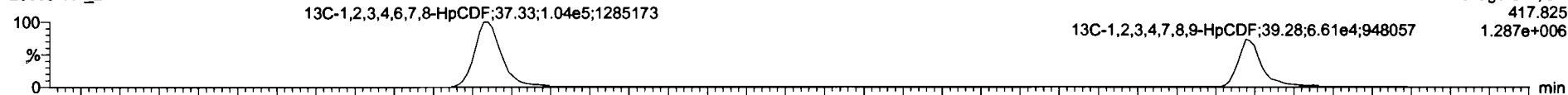


200604R1\_2

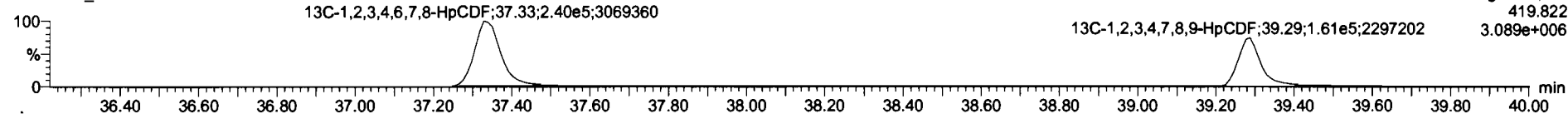


**<sup>13</sup>C-1,2,3,4,6,7,8-HpCDF**

200604R1\_2

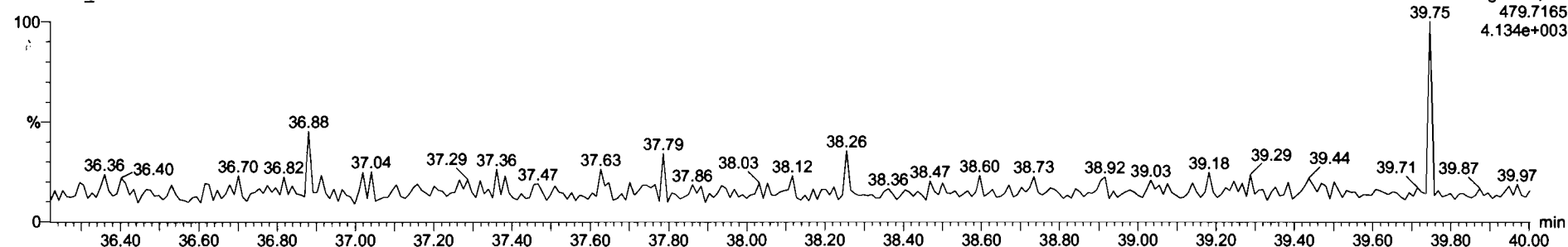


200604R1\_2



**DPE4**

200604R1\_2

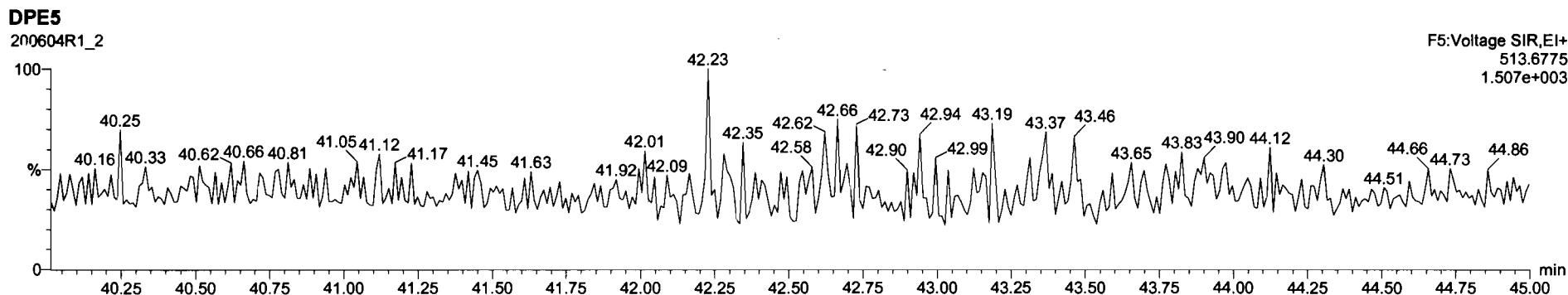
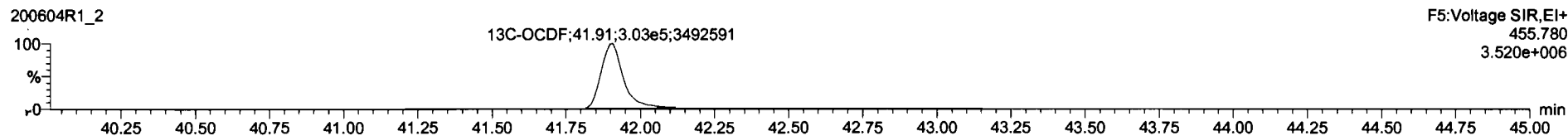
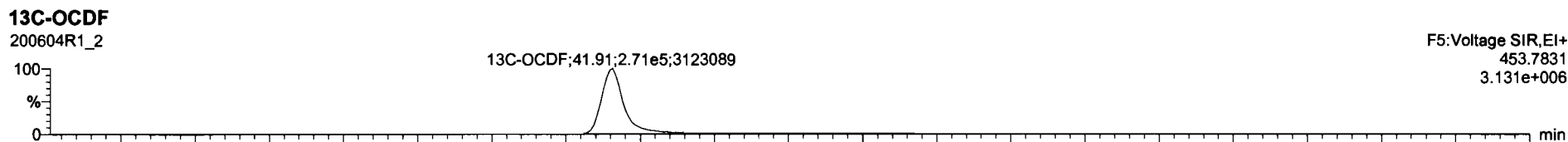
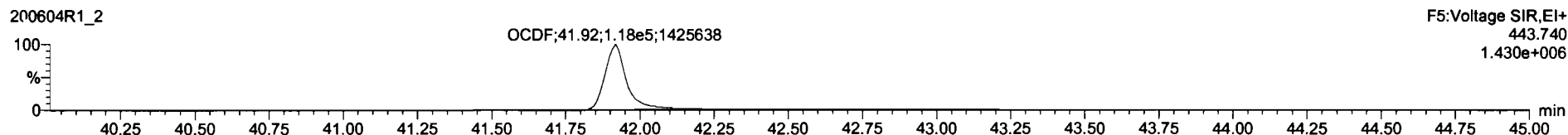
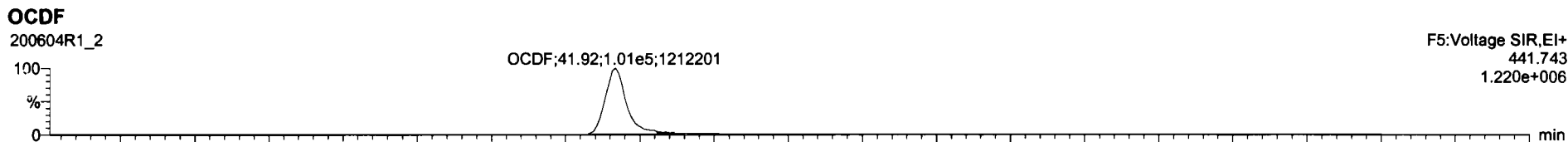


Dataset: Untitled

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

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

Name: 200604R1\_2, Date: 04-Jun-2020, Time: 09:01:24, ID: B0E0067-BS1 OPR 10, Description: OPR





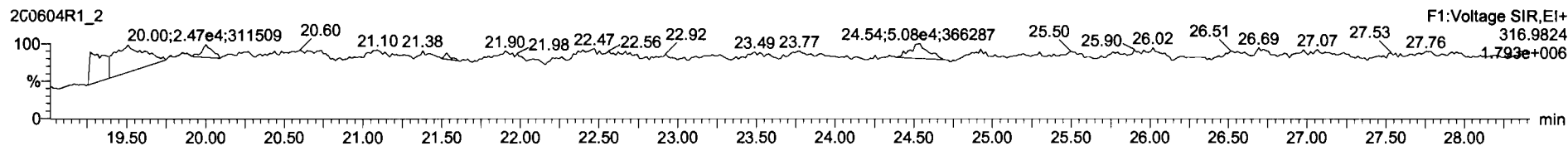
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Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time

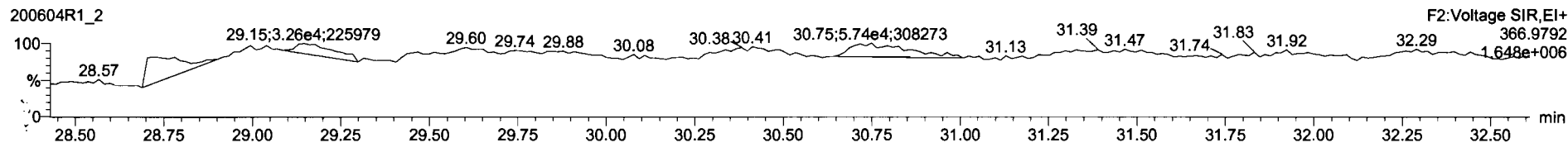
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_2, Date: 04-Jun-2020, Time: 09:01:24, ID: B0E0067-BS1 OPR 10, Description: OPR

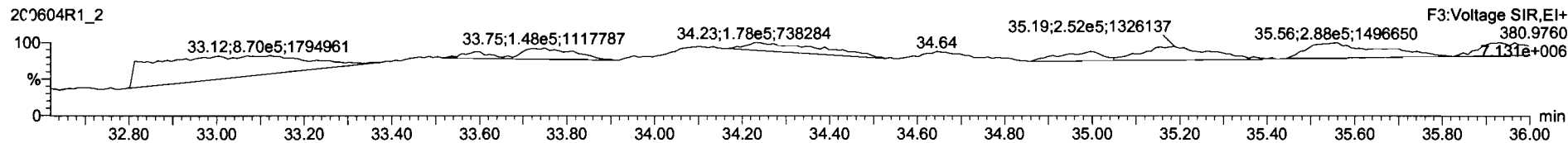
**PFK1**



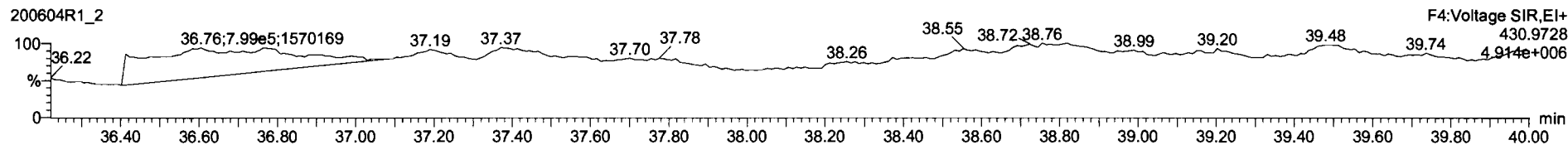
**PFK2**



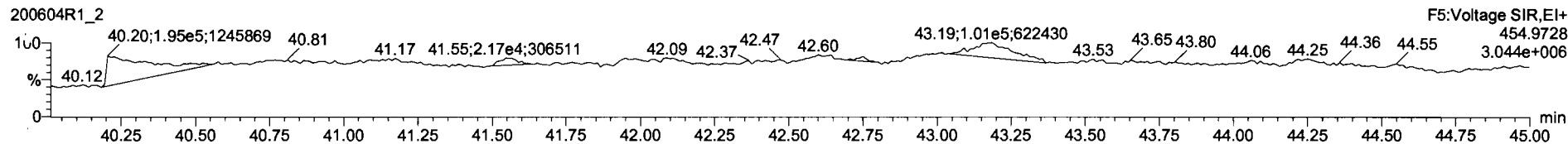
**PFK3**



**PFK4**



**PFK5**



Dataset: U:\VG12.PRO\Results\200604R1\200604R1-5.qld

Last Altered: Tuesday, July 07, 2020 3:37:42 PM Pacific Daylight Time  
Printed: Tuesday, July 07, 2020 3:43:36 PM Pacific Daylight Time

*FIN 07/07/20*

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

*C7 07/10/2020*

Name: 200604R1\_5, Date: 04-Jun-2020, Time: 11:22:10, ID: 2000964-01 PDI-1148SC-A-07-08-200427 12.64, Description: PDI-1148SC-A-07-08-200427

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD												0.0731	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.005	31.473		1.001				0.0794	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.005	34.825		1.000				0.149	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.005	34.921		1.000				0.150	
5	5 1,2,3,7,8,9-HxCDD	2.54e2	1.31	NO	0.887	10.005	35.209	35.22	1.000	1.001	0.14410		0.172	0.144
6	6 1,2,3,4,6,7,8-HpCDD	1.56e3	1.01	NO	0.864	10.005	38.746	38.76	1.000	1.001	1.2664		0.0886	1.27
7	7 OCDD	7.92e3	0.82	NO	0.914	10.005	41.706	41.72	1.000	1.000	7.3457		0.0785	7.35
8	8 2,3,7,8-TCDF												0.0351	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.005	30.190		1.001				0.0424	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.005	31.176		1.001				0.0380	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.005	33.942		1.000				0.0491	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.005	34.068		1.000				0.0460	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.005	34.679		1.001				0.0509	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.005	35.560		1.000				0.0814	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.005	37.365		1.001				0.0609	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.005	39.277		1.000				0.0724	
17	17 OCDF			NO	0.806	10.005	41.908		1.000				0.108	
18	18 13C-2,3,7,8-TCDD	7.47e5	0.78	NO	1.16	10.005	26.507	26.48	1.026	1.025	174.74	87.4	0.226	
19	19 13C-1,2,3,7,8-PeCDD	5.48e5	0.65	NO	0.849	10.005	31.692	31.45	1.227	1.218	174.67	87.4	0.326	
20	20 13C-1,2,3,4,7,8-HxCDD	3.46e5	1.28	NO	0.779	10.005	34.830	34.81	1.014	1.014	164.18	82.1	0.582	
21	21 13C-1,2,3,6,7,8-HxCDD	4.57e5	1.30	NO	1.02	10.005	34.944	34.92	1.017	1.017	165.84	83.0	0.446	
22	22 13C-1,2,3,7,8,9-HxCDD	3.97e5	1.21	NO	0.903	10.005	35.215	35.20	1.025	1.025	162.23	81.2	0.502	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.85e5	1.08	NO	0.689	10.005	38.739	38.73	1.128	1.128	152.61	76.3	0.511	
24	24 13C-OCDD	4.72e5	0.91	NO	0.652	10.005	41.761	41.71	1.216	1.214	267.11	66.8	0.767	
25	25 13C-2,3,7,8-TCDF	9.43e5	0.77	NO	1.06	10.005	25.549	25.59	0.989	0.991	157.35	78.7	0.287	
26	26 13C-1,2,3,7,8-PeCDF	8.07e5	1.61	NO	0.838	10.005	30.076	30.17	1.165	1.168	170.14	85.1	0.534	
27	27 13C-2,3,4,7,8-PeCDF	7.95e5	1.58	NO	0.817	10.005	31.029	31.15	1.202	1.206	172.11	86.1	0.548	
28	28 13C-1,2,3,4,7,8-HxCDF	4.62e5	0.50	NO	1.01	10.005	33.961	33.94	0.989	0.988	169.51	84.8	0.728	
29	29 13C-1,2,3,6,7,8-HxCDF	5.47e5	0.50	NO	1.17	10.005	34.085	34.06	0.992	0.992	173.10	86.6	0.628	
30	30 13C-2,3,4,6,7,8-HxCDF	4.71e5	0.50	NO	1.02	10.005	34.659	34.64	1.009	1.009	170.28	85.2	0.718	
31	31 13C-1,2,3,7,8,9-HxCDF	3.81e5	0.53	NO	0.860	10.005	35.558	35.56	1.035	1.035	163.51	81.8	0.853	

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-5.qld

Last Altered: Tuesday, July 07, 2020 3:37:42 PM Pacific Daylight Time  
Printed: Tuesday, July 07, 2020 3:43:36 PM Pacific Daylight Time

Name: 200604R1\_5, Date: 04-Jun-2020, Time: 11:22:10, ID: 2000964-01 PDI-1148SC-A-07-08-200427 12.64, Description: PDI-1148SC-A-07-08-200427

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.31e5	0.42	NO	0.774	10.005	37.307	37.33	1.086	1.087	157.69	78.9	0.520	
33	13C-1,2,3,4,7,8,9-HpCDF	2.16e5	0.42	NO	0.521	10.005	39.336	39.28	1.145	1.144	153.40	76.7	0.773	
34	13C-OCDF	5.50e5	0.83	NO	0.746	10.005	41.933	41.91	1.221	1.220	272.39	68.1	0.538	
35	37Cl-2,3,7,8-TCDD	3.02e5			1.04	10.005	26.538	26.50	1.028	1.026	78.819	98.6	0.0622	
36	13C-1,2,3,4-TCDD	7.39e5	0.78	NO	1.00	10.005	25.890	25.83	1.000	1.000	199.91	100	0.262	
37	13C-1,2,3,4-TCDF	1.13e6	0.78	NO	1.00	10.005	24.360	24.15	1.000	1.000	199.91	100	0.303	
38	13C-1,2,3,4,6,9-HxCDF	5.41e5	0.51	NO	1.00	10.005	34.420	34.35	1.000	1.000	199.91	100	0.733	
39	Total Tetra-Dioxins				0.888	10.005	24.620		0.000				0.0464	
40	Total Penta-Dioxins				0.908	10.005	29.960		0.000				0.0330	
41	Total Hexa-Dioxins				0.892	10.005	33.635		0.000		1.4037		0.164	1.40
42	Total Hepta-Dioxins				0.864	10.005	37.640		0.000		3.2829		0.0886	3.28
43	Total Tetra-Furans				0.751	10.005	23.610		0.000				0.0148	
44	1st Func. Penta-Furans				0.893	10.005	27.580		0.000				0.00839	
45	Total Penta-Furans				0.893	10.005	29.275		0.000				0.0183	
46	Total Hexa-Furans				0.934	10.005	33.555		0.000				0.0271	
47	Total Hepta-Furans				0.873	10.005	37.835		0.000				0.0355	

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Dataset: U:\VG12.PRO\Results\200604R1\200604R1-5.qld

Last Altered: Tuesday, July 07, 2020 3:37:42 PM Pacific Daylight Time

Printed: Tuesday, July 07, 2020 3:43:36 PM Pacific Daylight Time

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

Calibration: U:\VG12.PRO\CurveDB\ldb5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1\_5, Date: 04-Jun-2020, Time: 11:22:10, ID: 2000964-01 PDI-1148SC-A-07-08-200427 12.64, Description: PDI-1148SC-A-07-08-200427

**Tetra-Dioxins**

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

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.32	1.828e4	1.285e4	7.629e2	7.228e2	1.06	NO	1.486e3	0.83258	0.83258	0.164
2	Total Hexa-Dioxins	34.12	6.828e3	7.595e3	4.135e2	3.485e2	1.19	NO	7.620e2	0.42701	0.42701	0.164
3	1,2,3,7,8,9-HxCDD	35.22	3.054e3	2.081e3	1.437e2	1.098e2	1.31	NO	2.535e2	0.14410	0.14410	0.172

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.73	1.808e4	1.749e4	1.246e3	1.236e3	1.01	NO	2.482e3	2.0165	2.0165	0.0886
2	1,2,3,4,6,7,8-HpCDD	38.76	1.242e4	1.123e4	7.821e2	7.765e2	1.01	NO	1.559e3	1.2664	1.2664	0.0886

**Tetra-Furans**

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

**Penta-Furans function 1**

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-5.qld

Last Altered: Tuesday, July 07, 2020 3:37:42 PM Pacific Daylight Time

Printed: Tuesday, July 07, 2020 3:43:36 PM Pacific Daylight Time

Name: 200604R1\_5, Date: 04-Jun-2020, Time: 11:22:10, ID: 2000964-01 PDI-1148SC-A-07-08-200427 12.64, Description: PDI-1148SC-A-07-08-200427

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

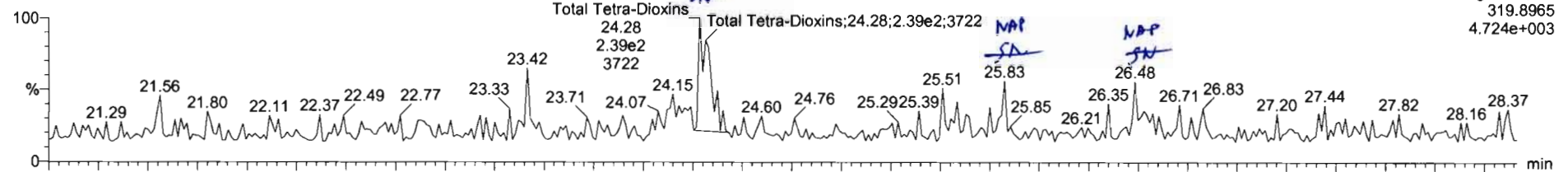
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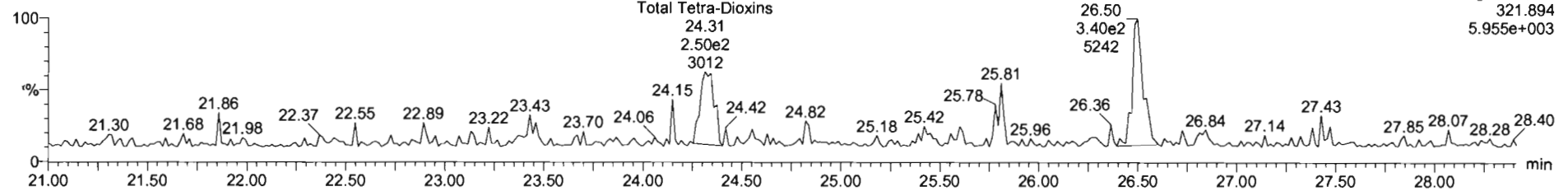
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2,3,7,8-TCDD

200604R1\_5

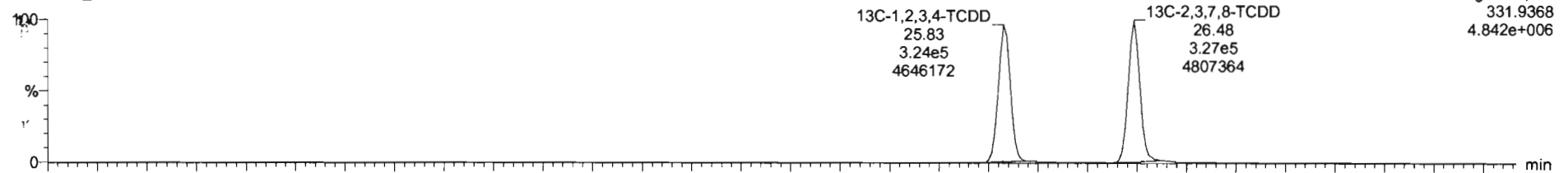


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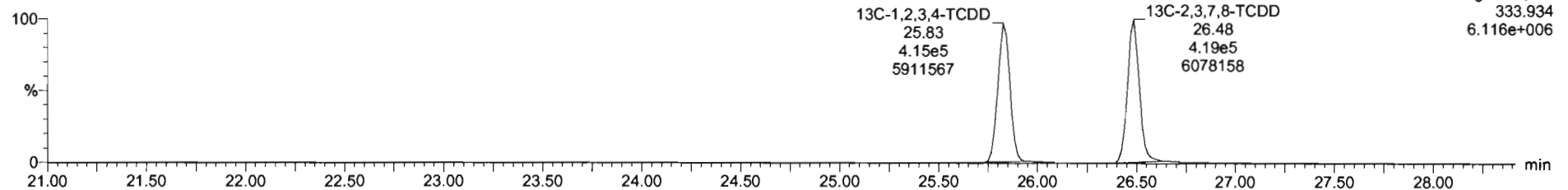


13C-2,3,7,8-TCDD

200604R1\_5



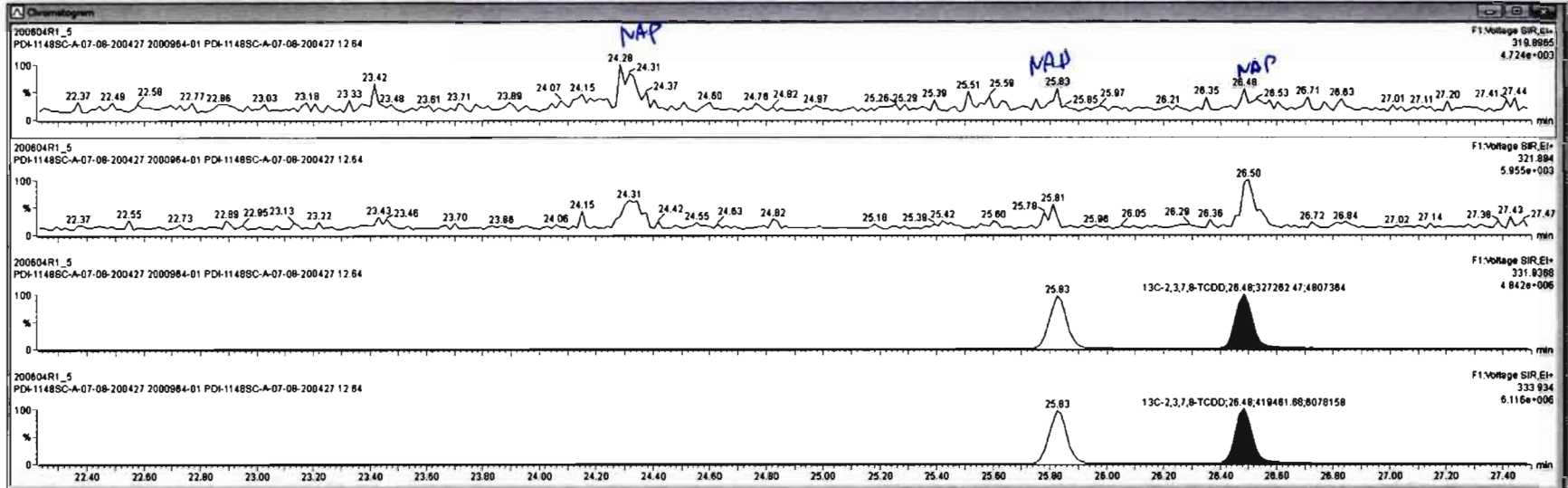
200604R1\_5





#	Name	Resp	RA	ry	RIR	wt/val	Prod RT	RT	RFC	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD												
2	1,2,3,7,8-PeCDD			NO	0.9081	10.005	31.47					0.0794	
3	1,2,3,4,7,8-HxCDD			NO	1.0534	10.005	34.83					0.148	
4	1,2,3,6,7,8-HxCDD			NO	0.8623	10.005	34.82					0.150	
5	1,2,3,7,8,9-HxCDD			NO	0.8699	10.005	35.21					0.172	
6	1,2,3,4,6,7,8-HxCDD			NO	0.8539	10.005	36.75					0.0895	
7	OCDD	7.92e3	0.82	NO	0.9136	10.005	41.71	41.72	1.000	7.35		0.0785	7.35

#	Name	RT	Int Resp	Int Resp	RA	ry	EMPC	Conc
1								



Dataset: Untitled

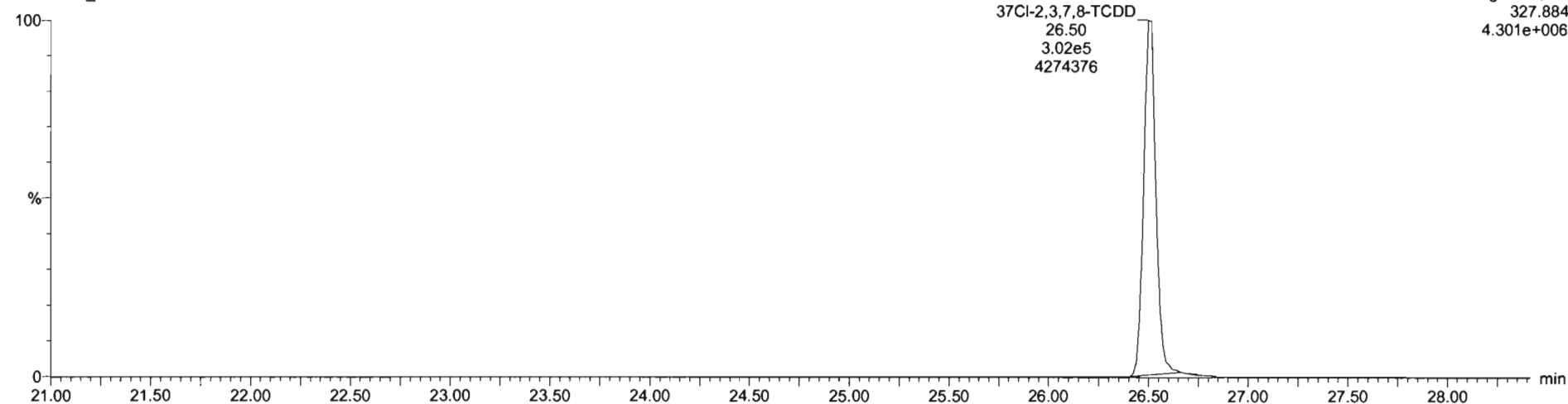
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Name: 200604R1\_5, Date: 04-Jun-2020, Time: 11:22:10, ID: 2000964-01 PDI-1148SC-A-07-08-200427 12.64, Description: PDI-1148SC-A-07-08-200427

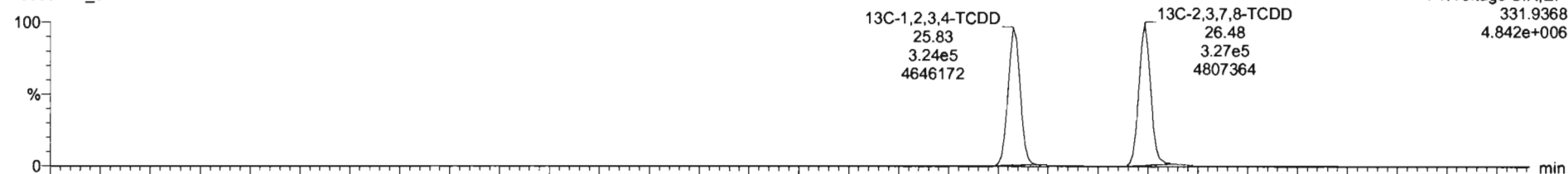
**<sup>37</sup>Cl-2,3,7,8-TCDD**

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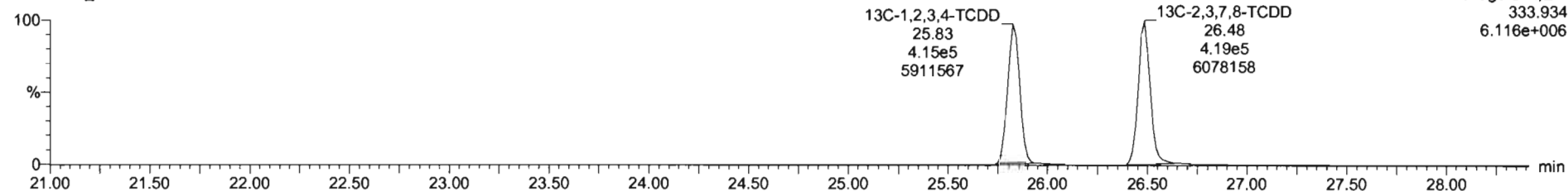


**<sup>13</sup>C-1,2,3,4-TCDD**

200604R1\_5



200604R1\_5





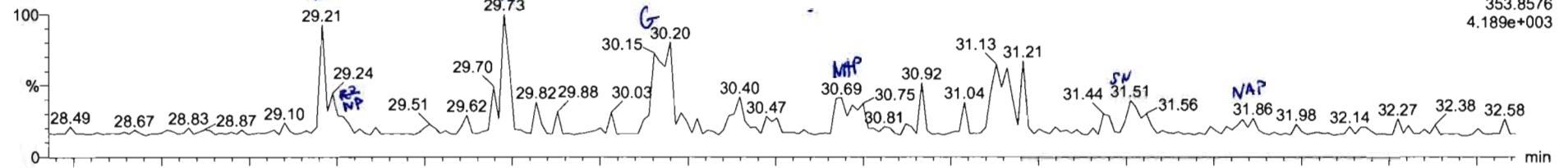
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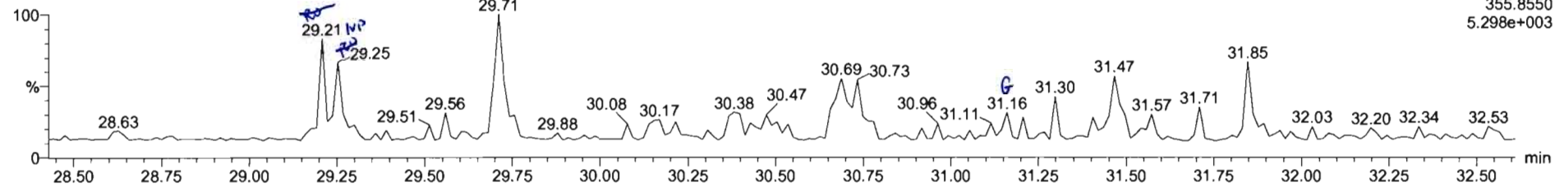
1,2,3,7,8-PeCDD

200604R1\_5



F2:Voltage SIR,EI+  
353.8576  
4.189e+003

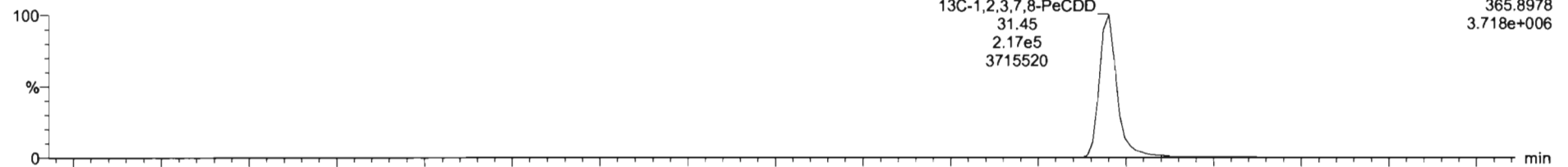
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F2:Voltage SIR,EI+  
355.8550  
5.298e+003

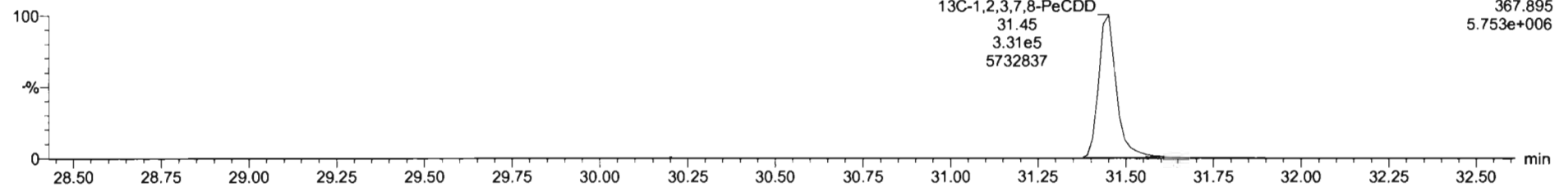
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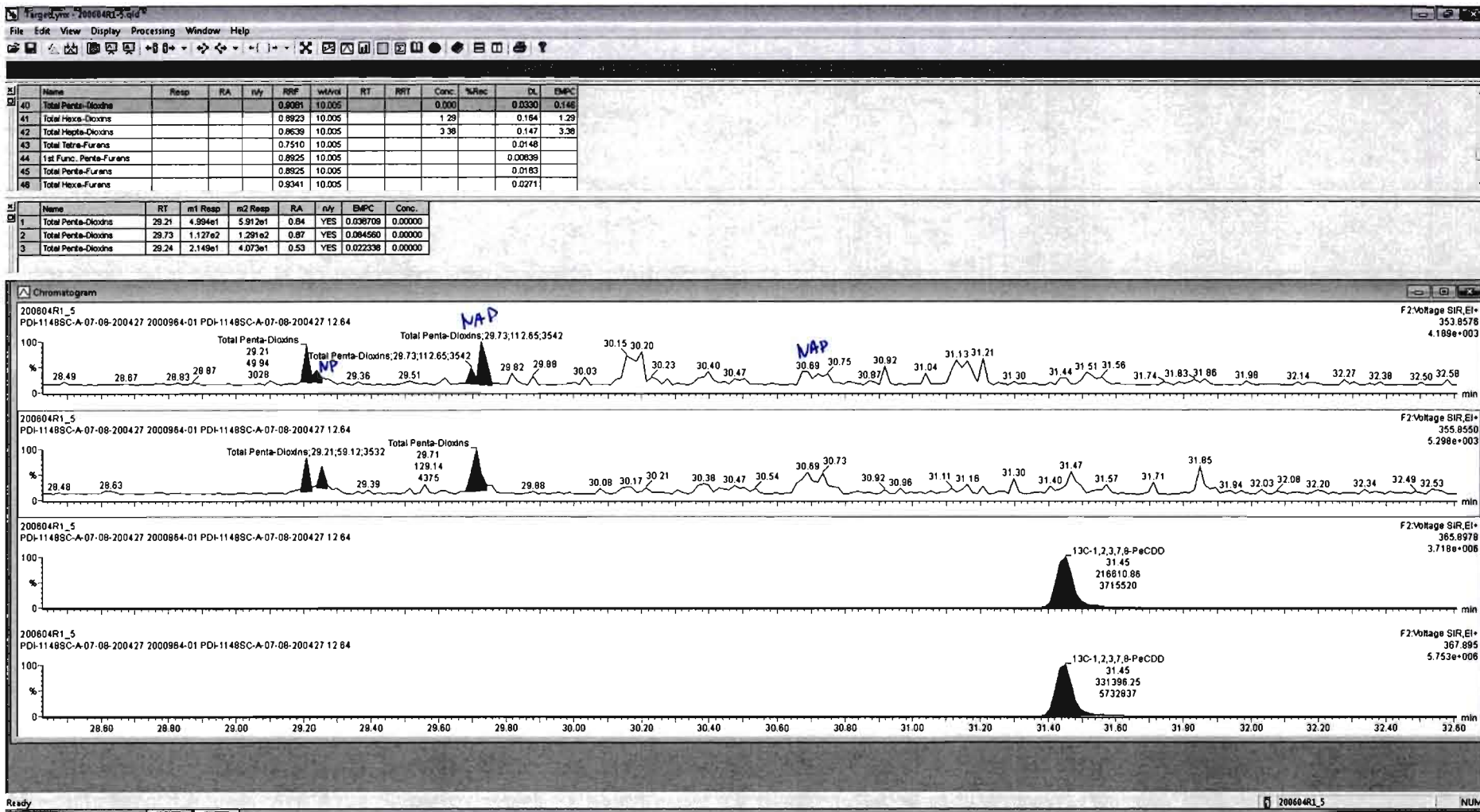


F2:Voltage SIR,EI+  
365.8978  
3.718e+006

200604R1\_5



F2:Voltage SIR,EI+  
367.895  
5.753e+006



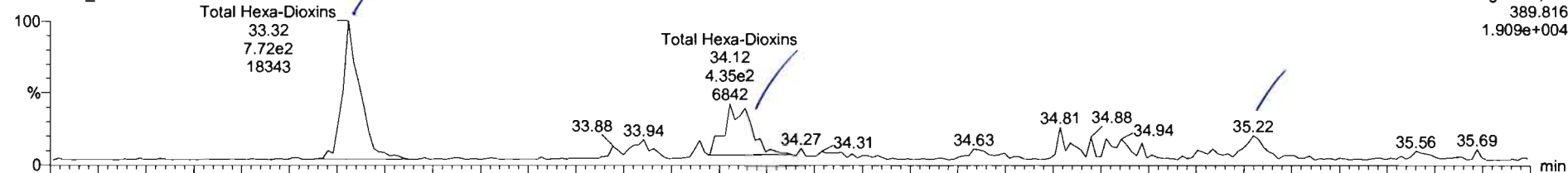
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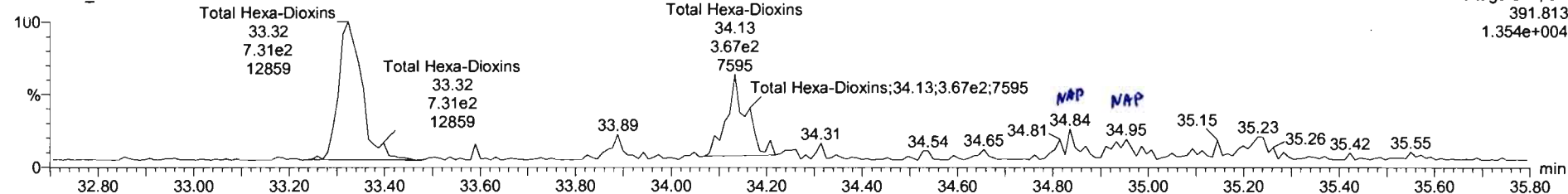
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1,2,3,4,7,8-HxCDD

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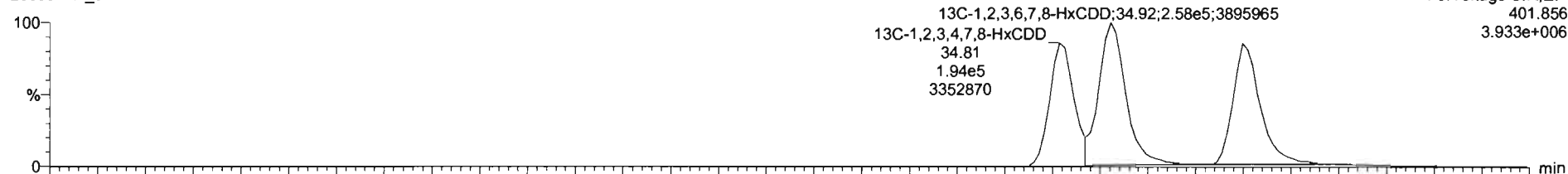


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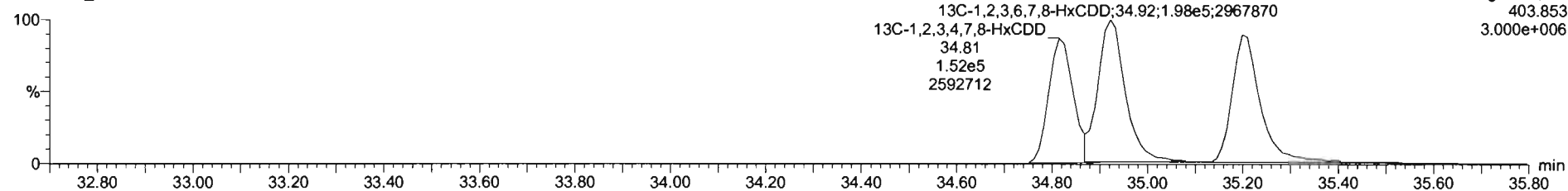


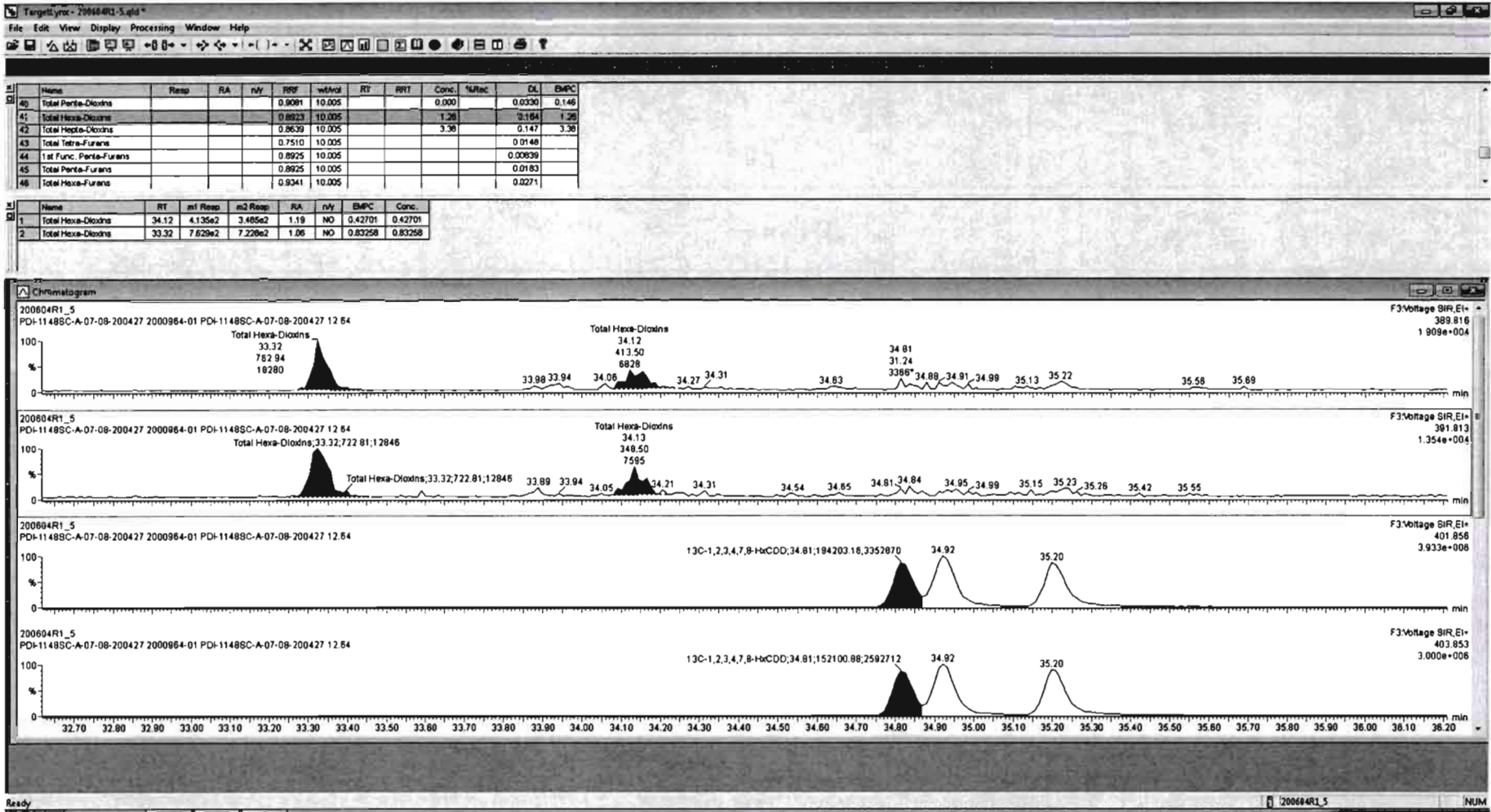
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200604R1\_5



200604R1\_5









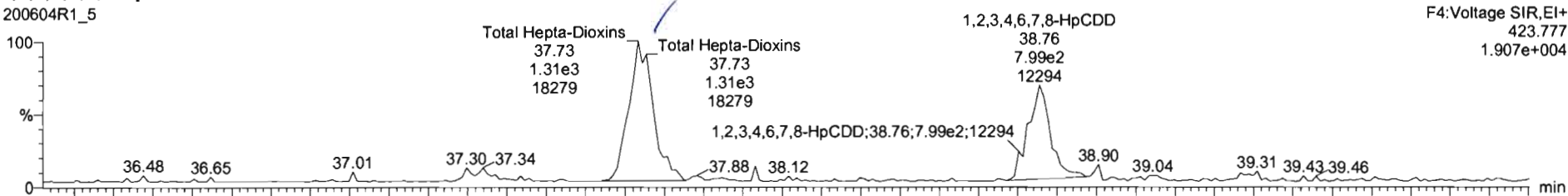
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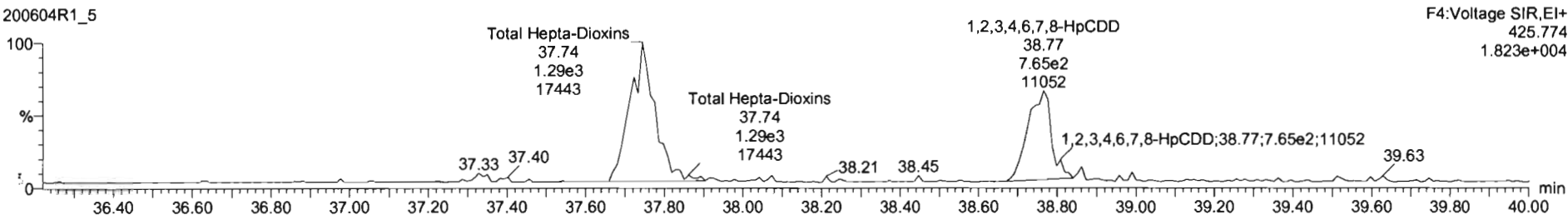
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1,2,3,4,6,7,8-HpCDD

200604R1\_5

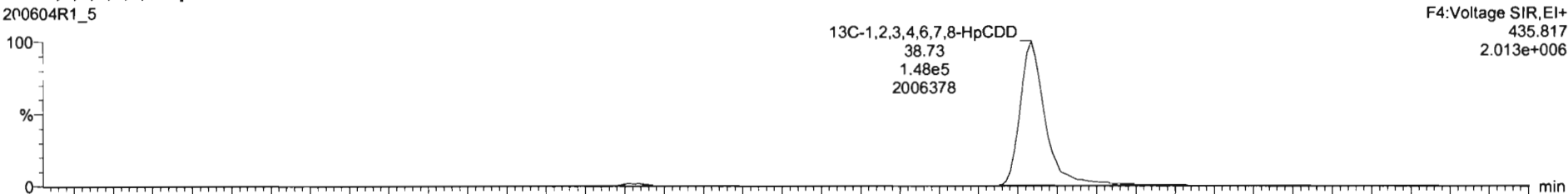


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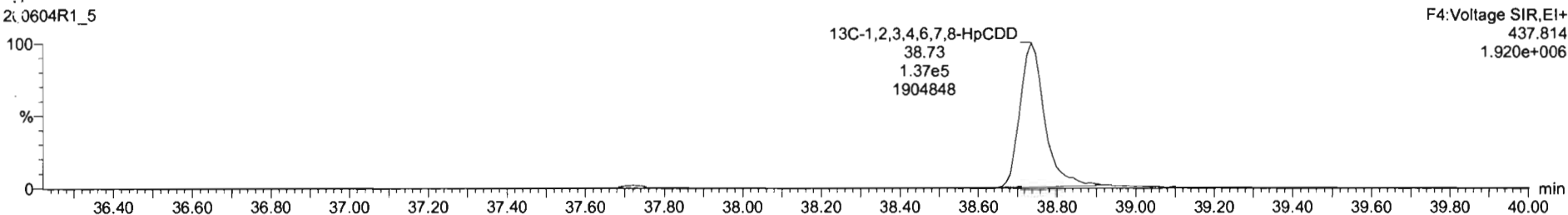


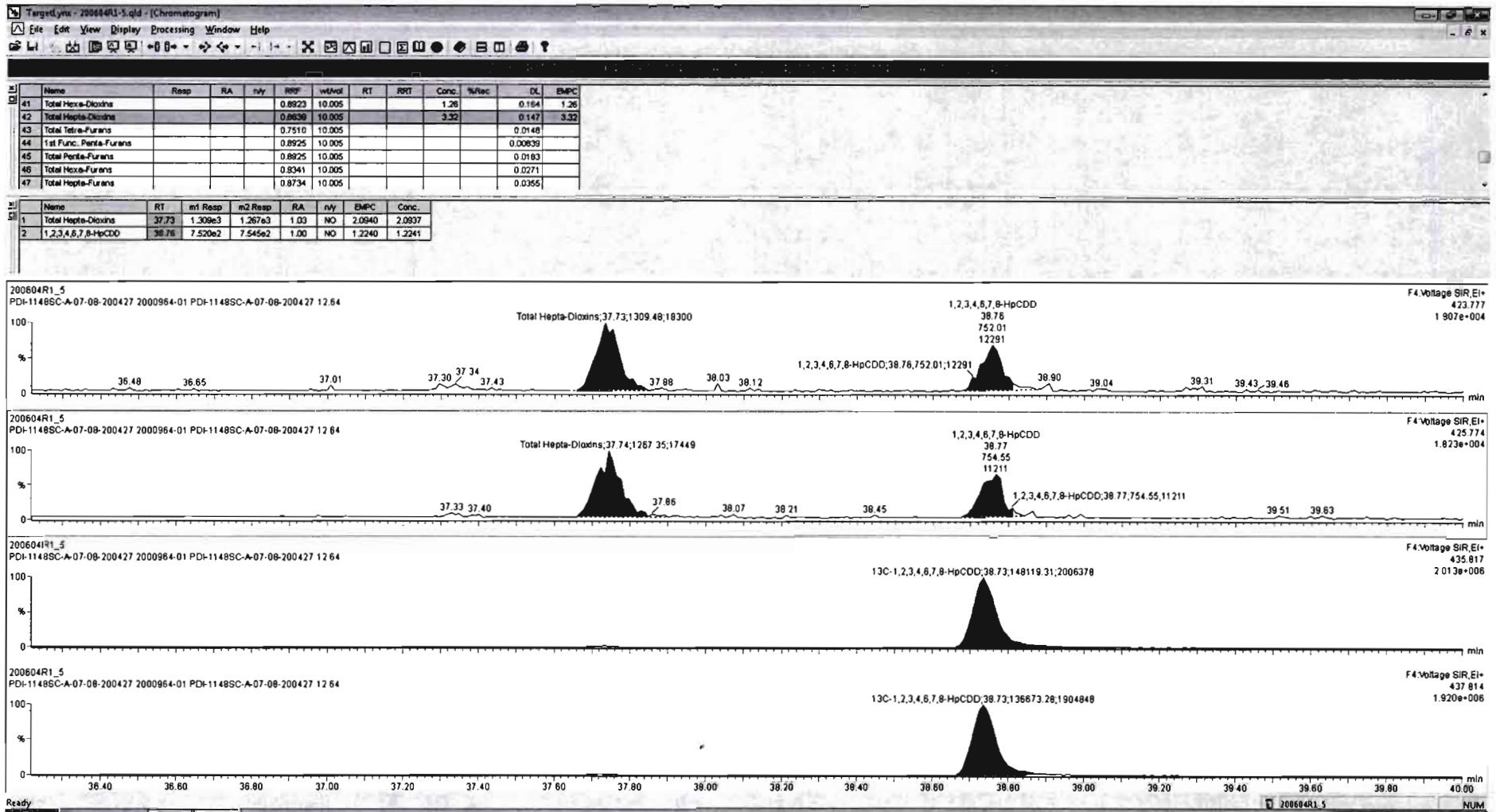
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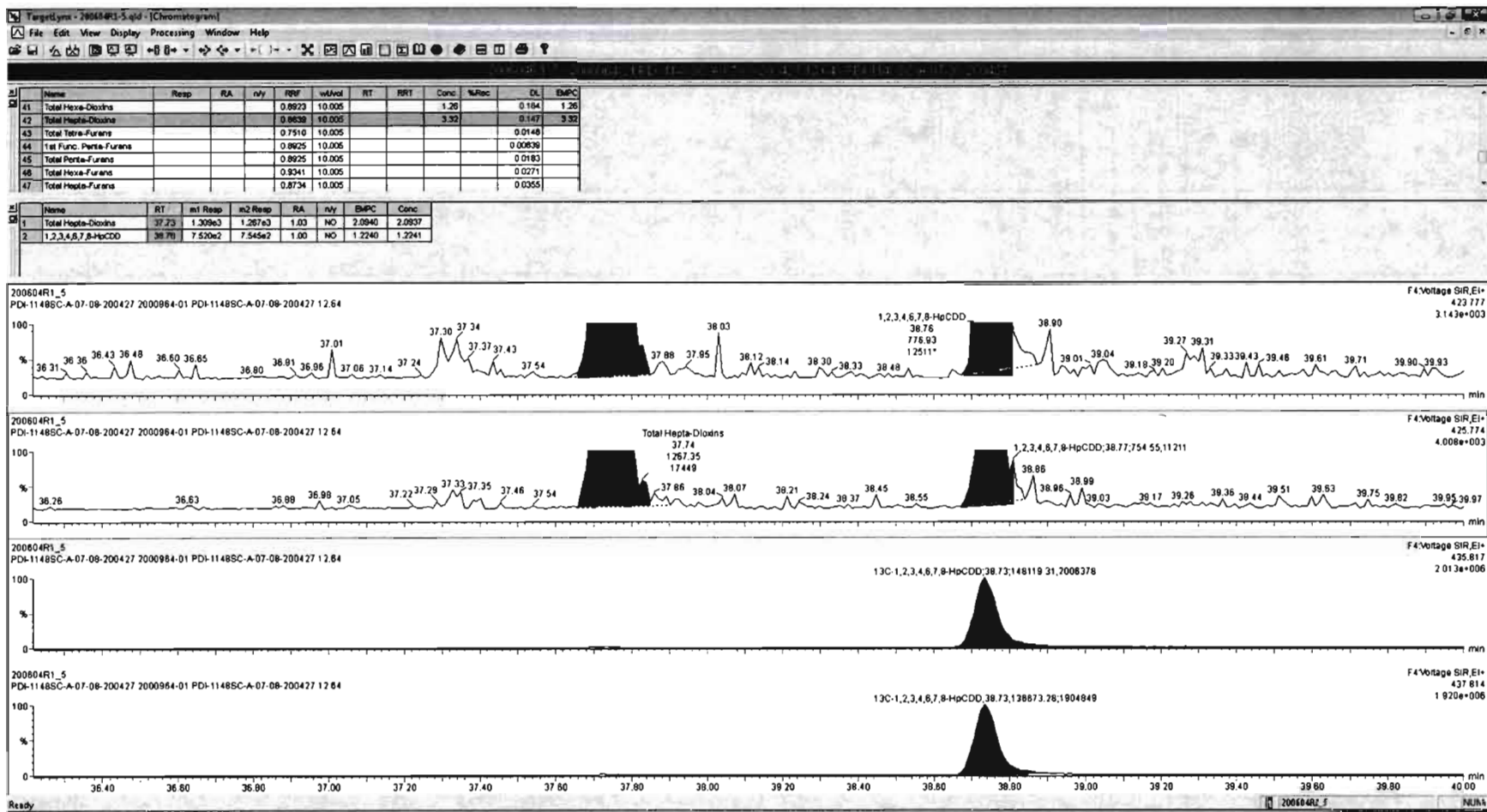
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200604R1\_5





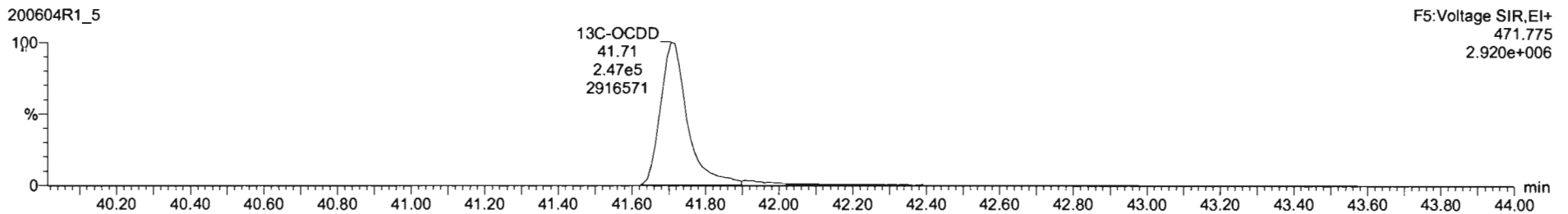
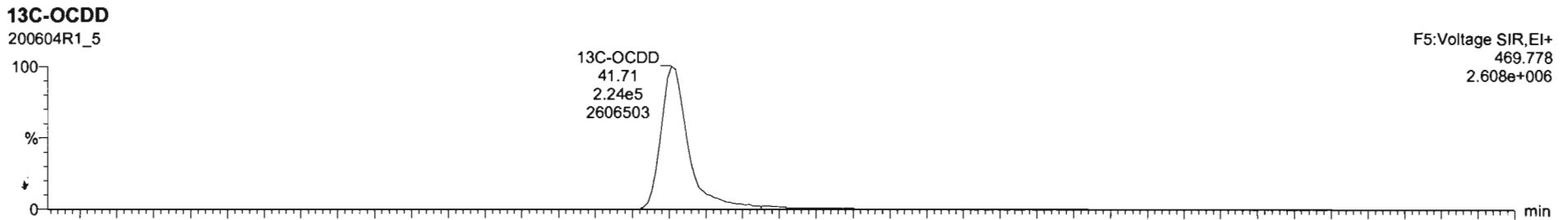
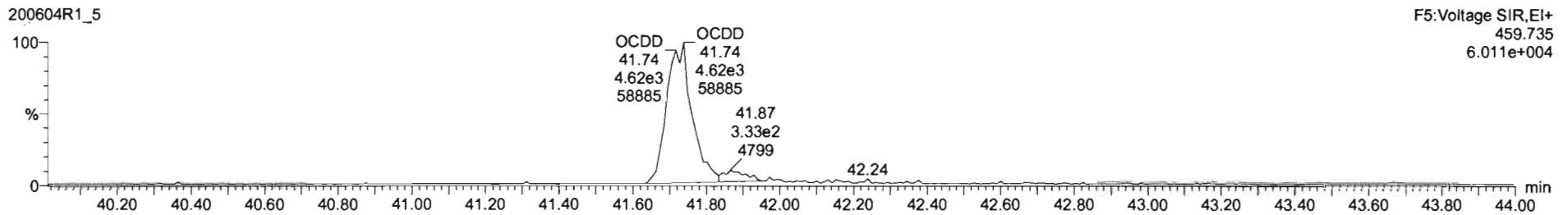
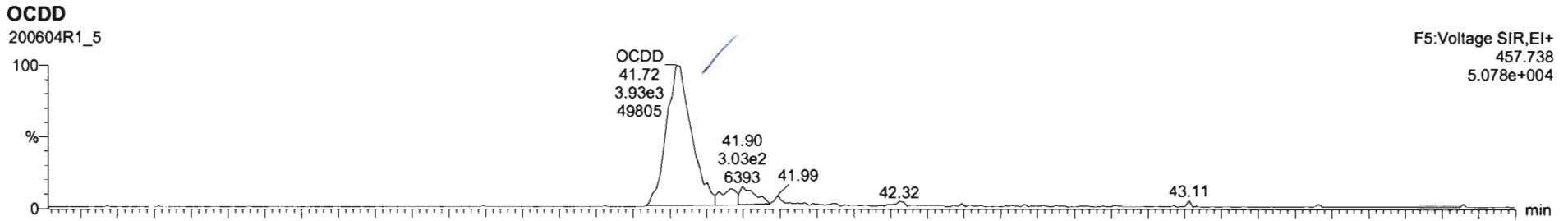


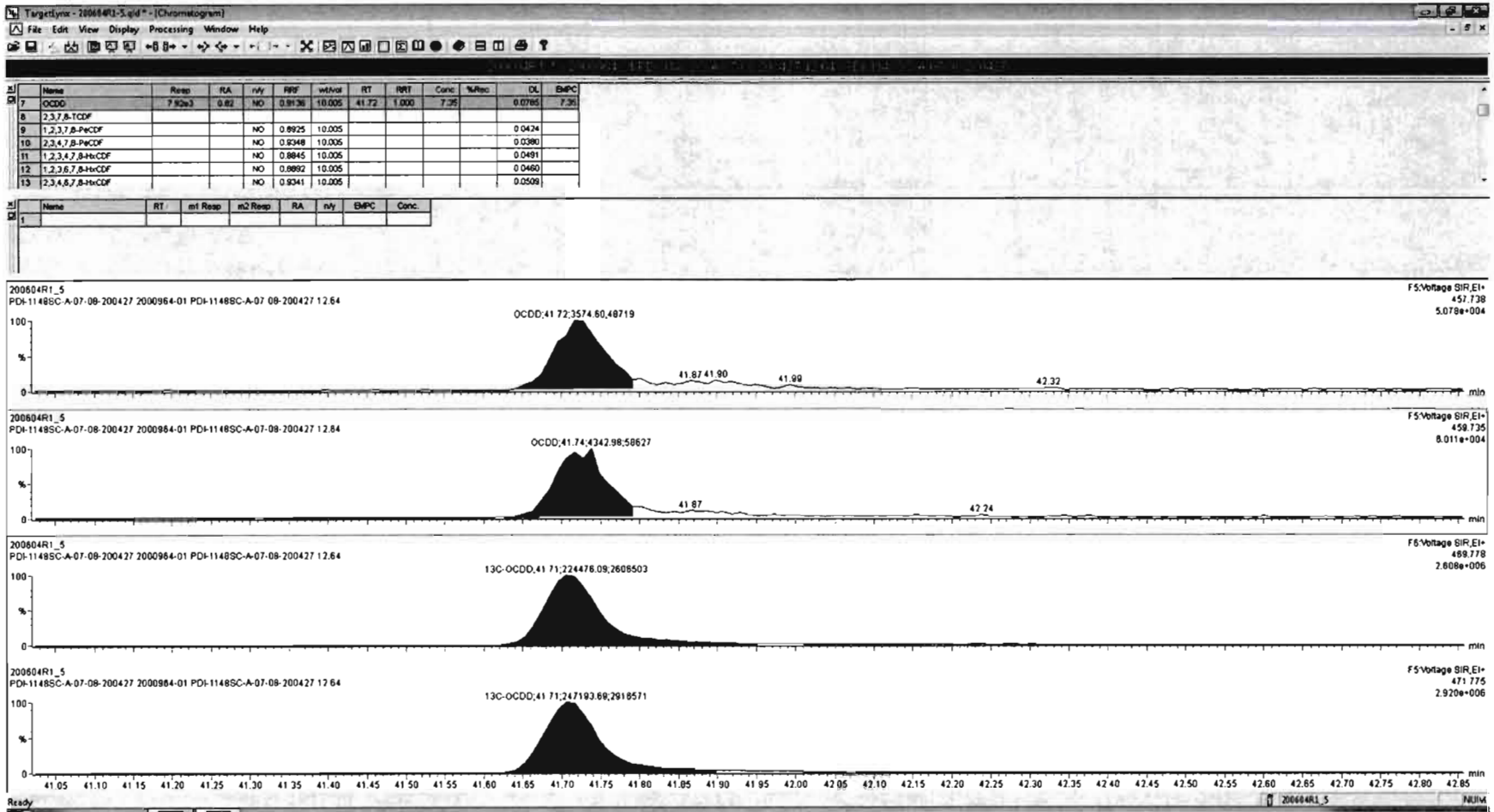


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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_5, Date: 04-Jun-2020, Time: 11:22:10, ID: 2000964-01 PDI-1148SC-A-07-08-200427 12.64, Description: PDI-1148SC-A-07-08-200427



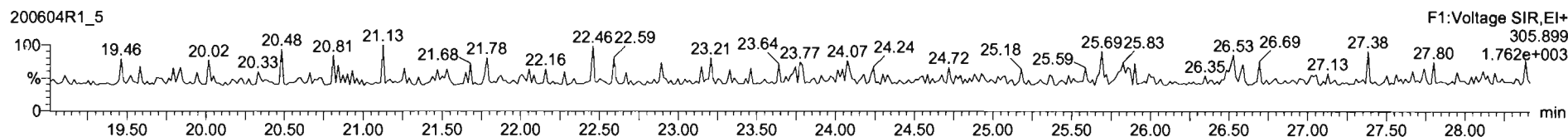
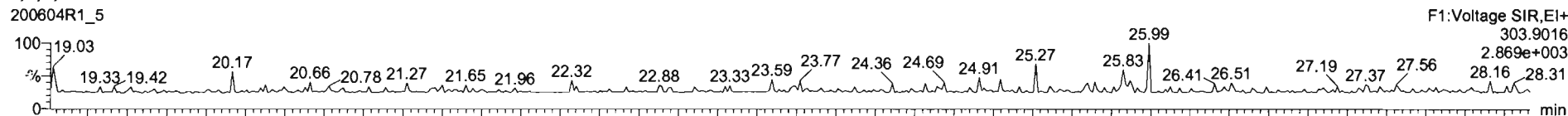


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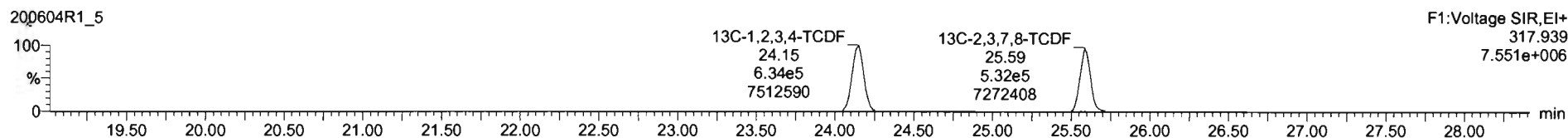
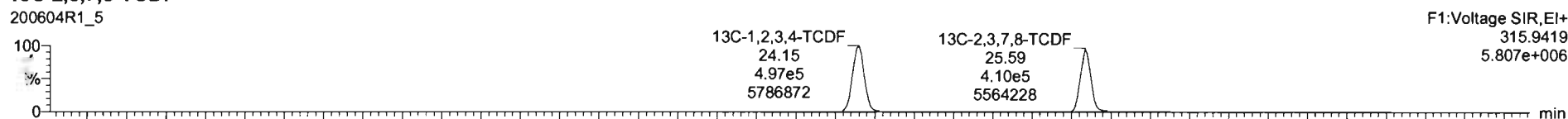
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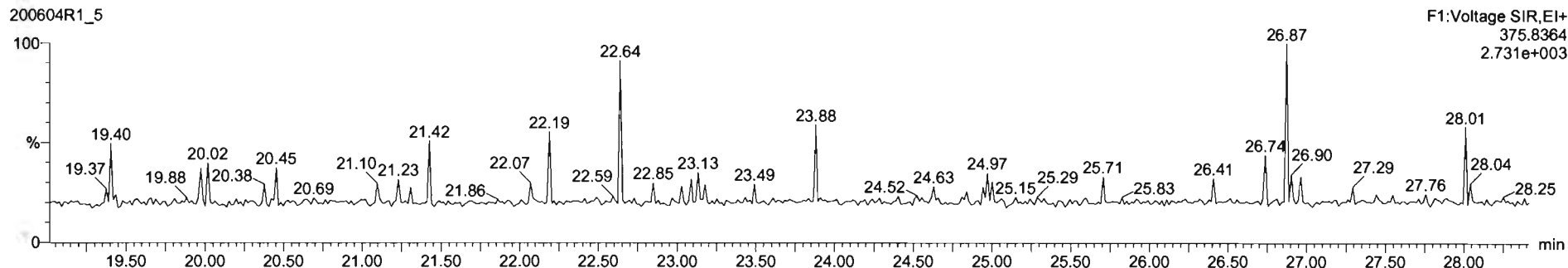
**2,3,7,8-TCDF**



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



**DPE1**



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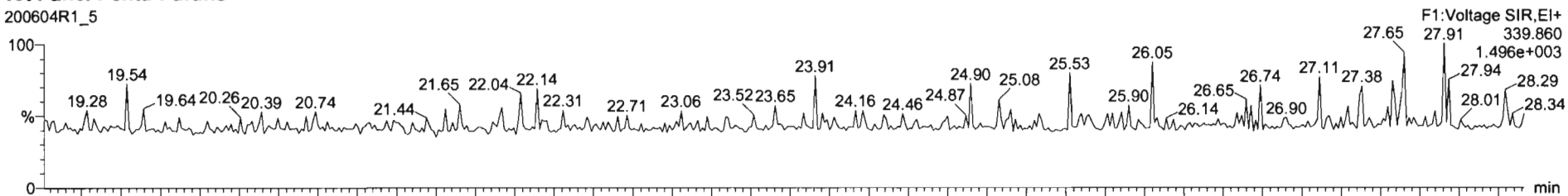
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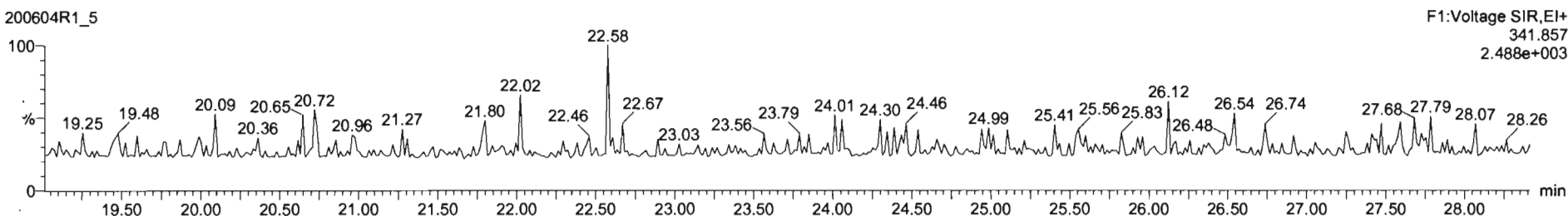
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1st Func. Penta-Furans

200604R1\_5

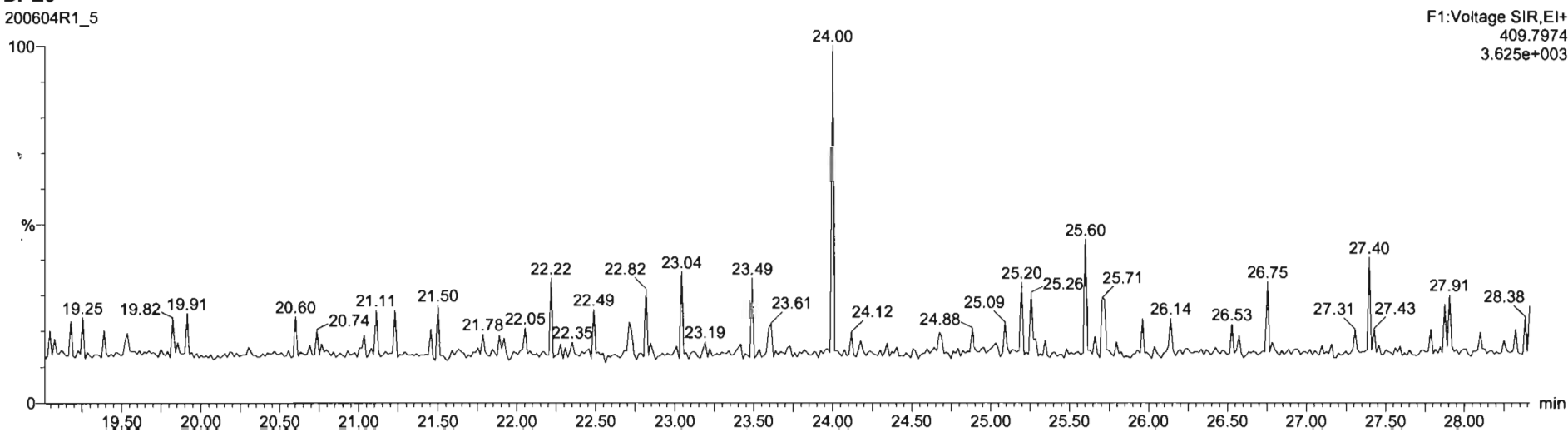


200604R1\_5



DPE6

200604R1\_5



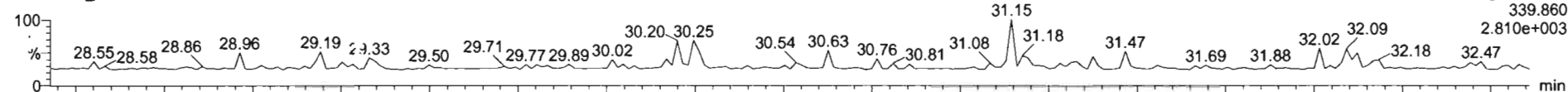
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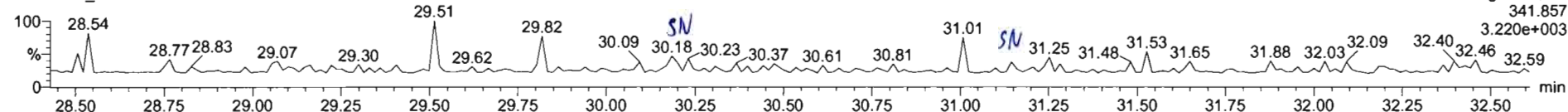
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**1,2,3,7,8-PeCDF**

200604R1\_5

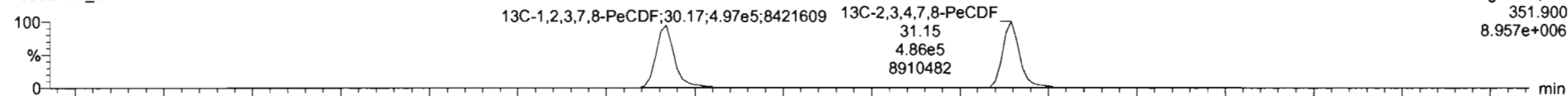


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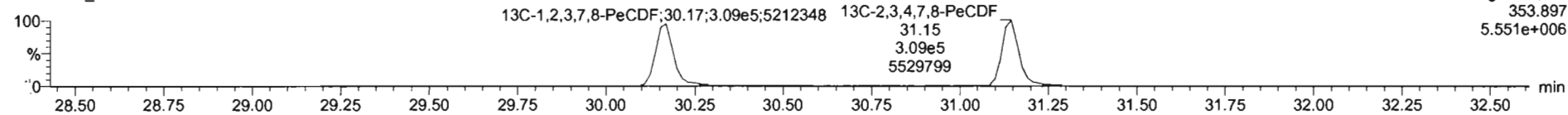


**13C-1,2,3,7,8-PeCDF**

200604R1\_5

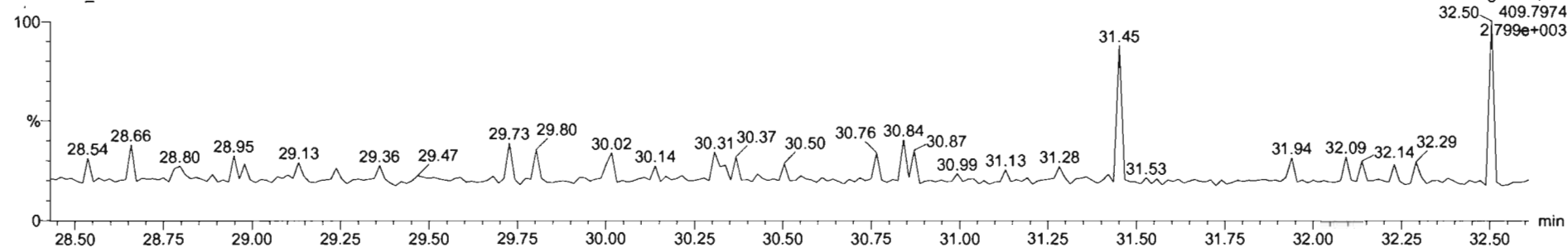


200604R1\_5



**DPE2**

200604R1\_5

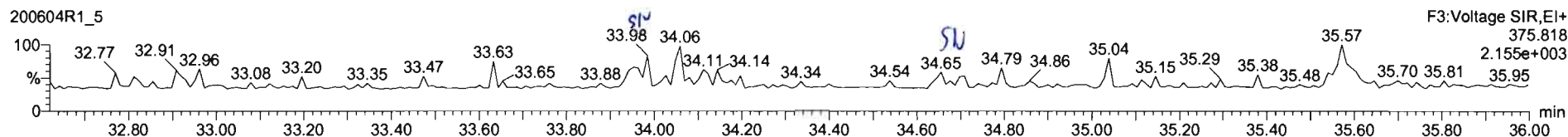
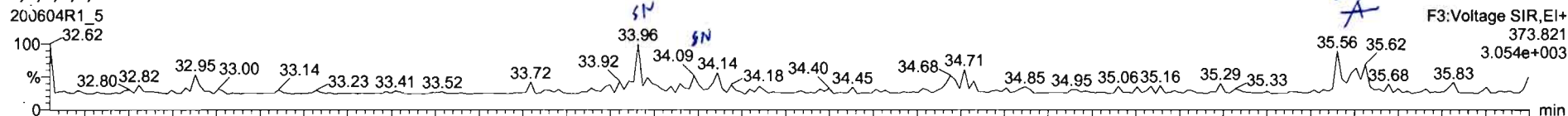


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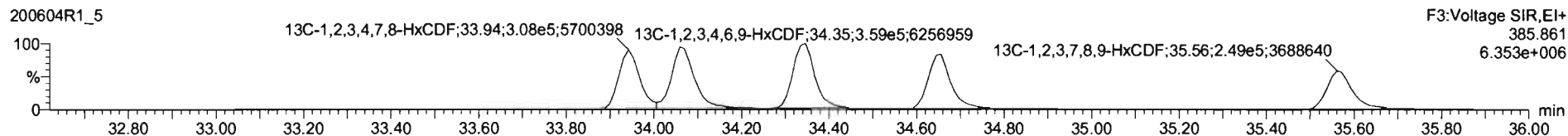
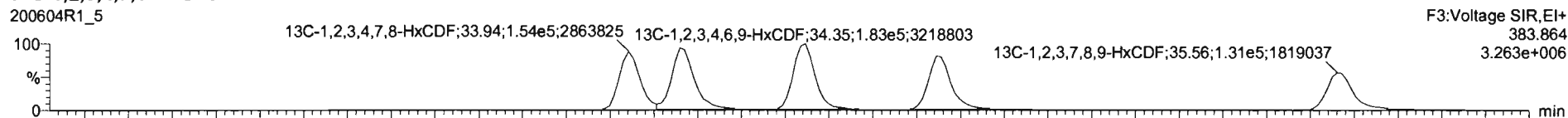
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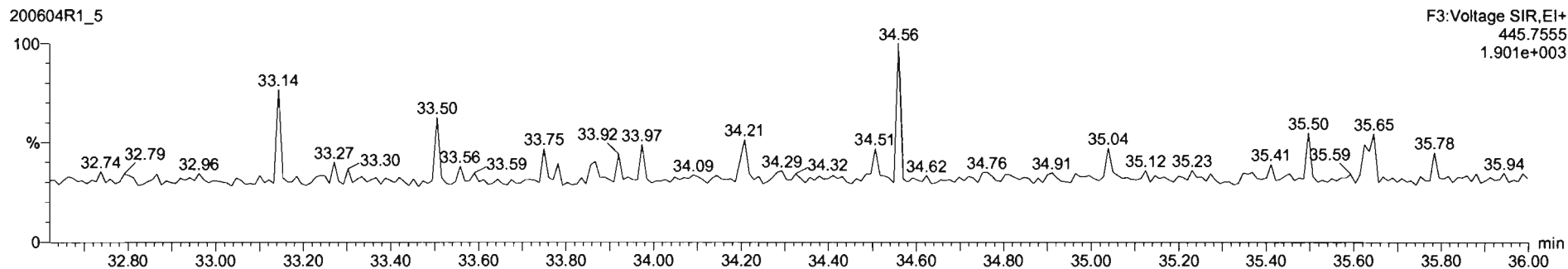
1,2,3,4,7,8-HxCDF

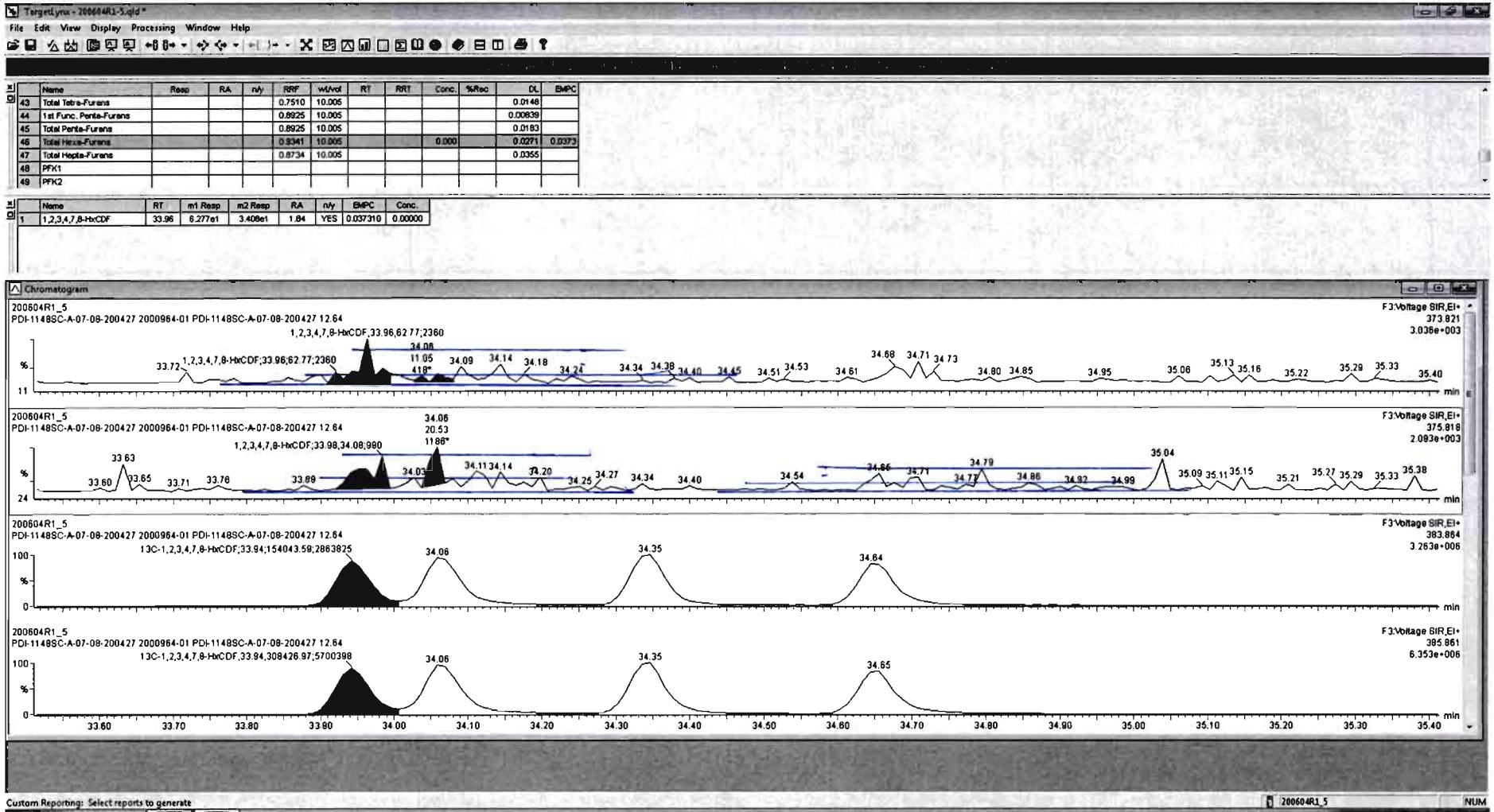


1-C-1,2,3,4,7,8-HxCDF

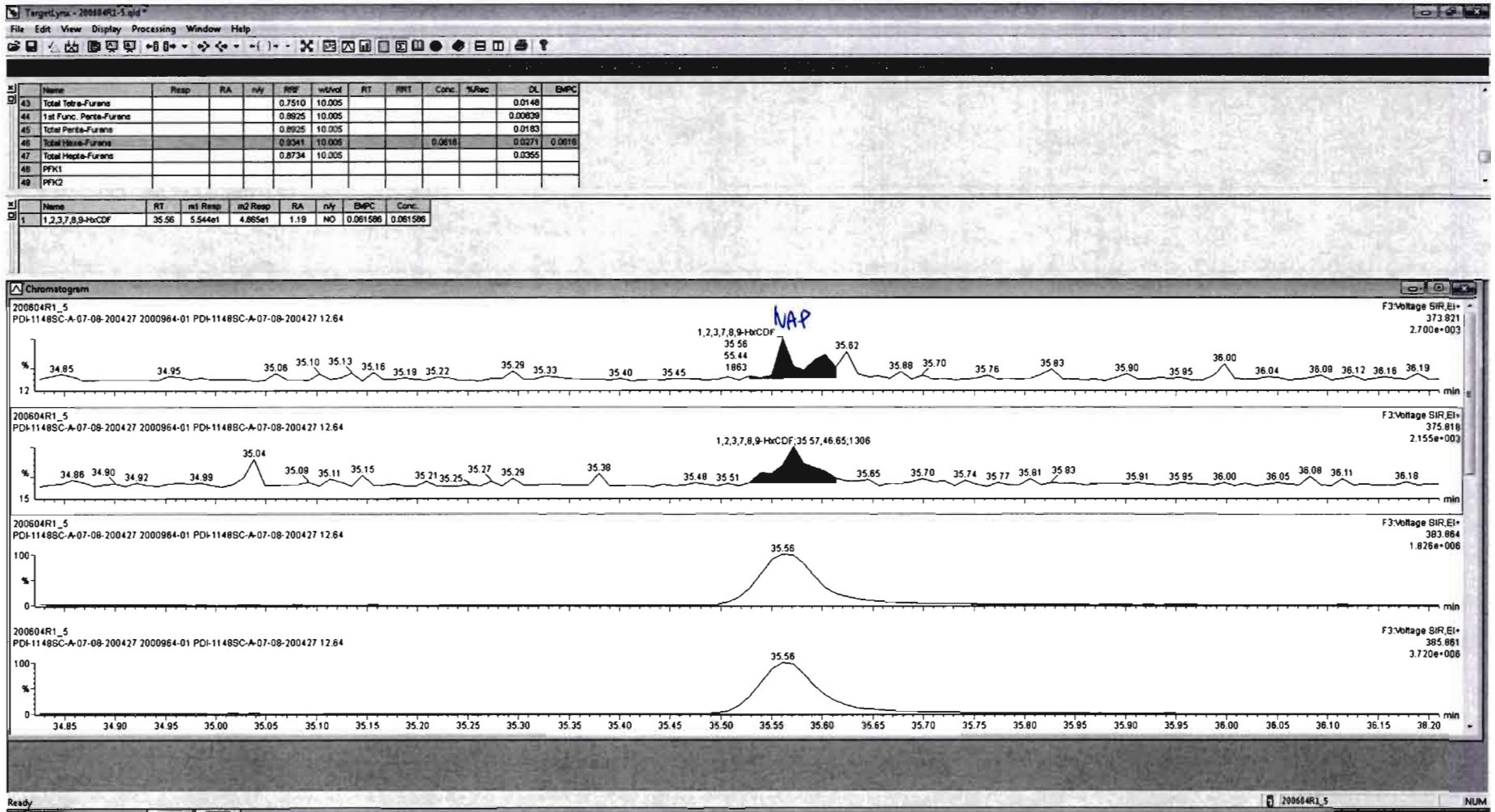


DPE3









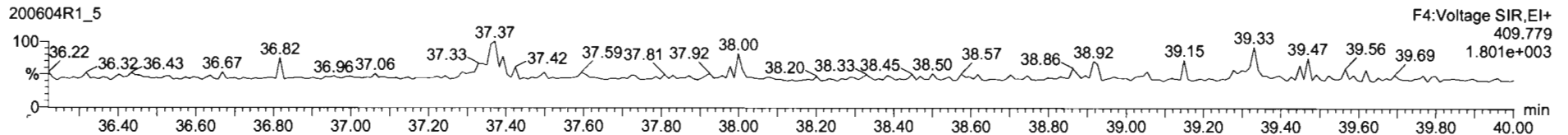
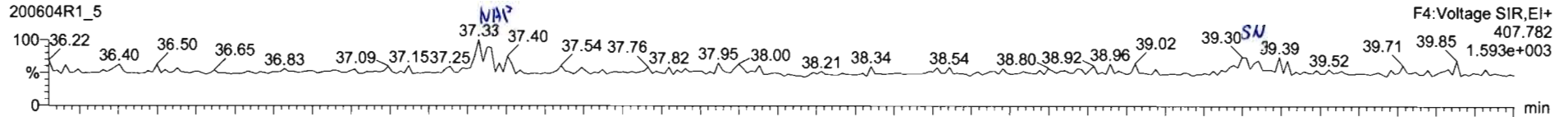


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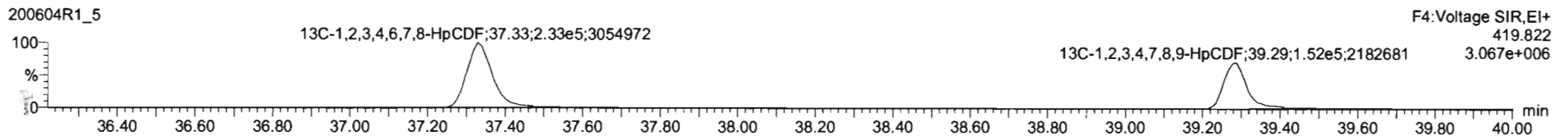
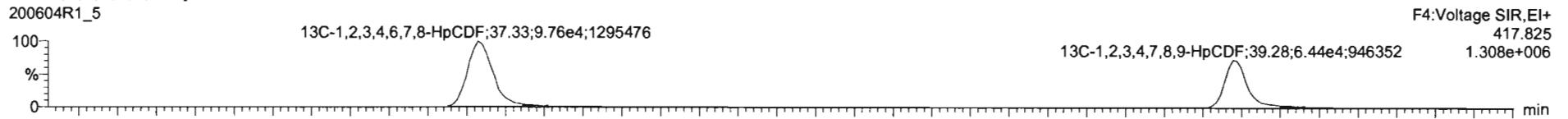
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Name: 200604R1\_5, Date: 04-Jun-2020, Time: 11:22:10, ID: 2000964-01 PDI-1148SC-A-07-08-200427 12.64, Description: PDI-1148SC-A-07-08-200427

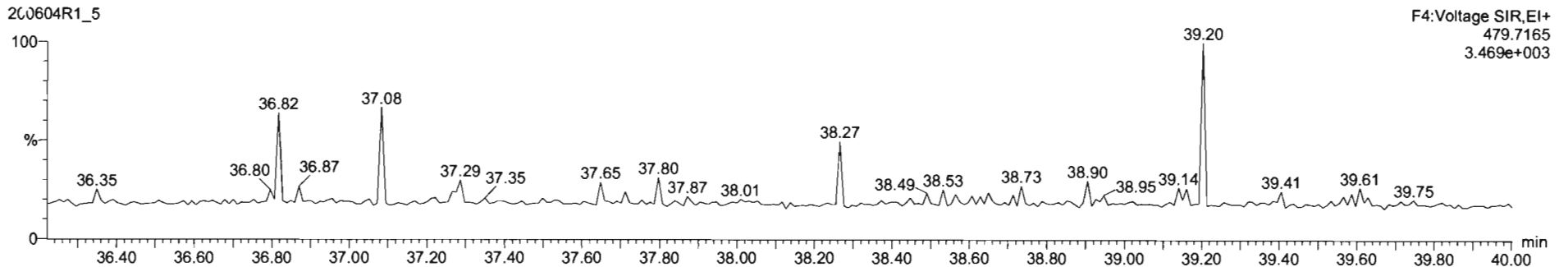
1,2,3,4,6,7,8-HpCDF



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



DPE4

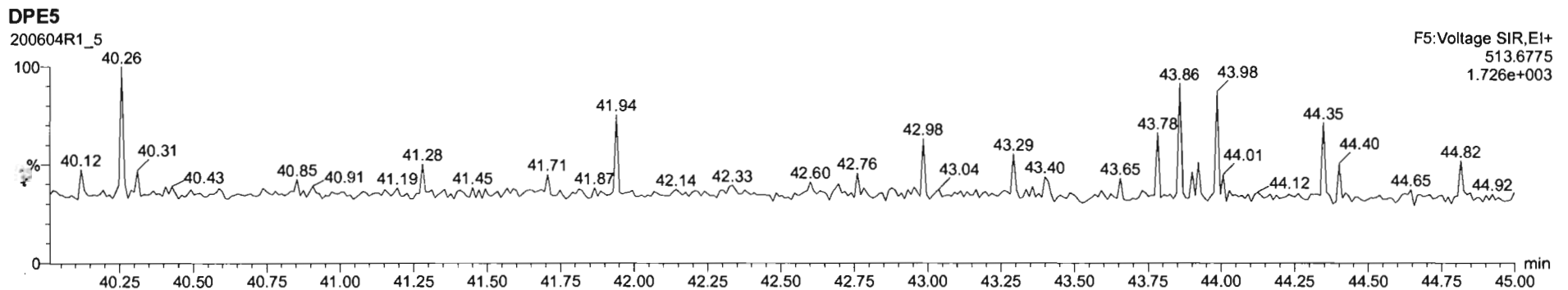
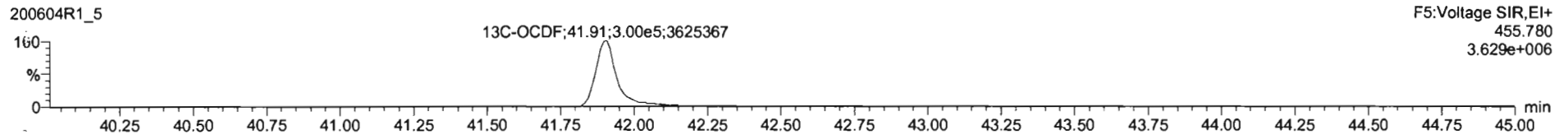
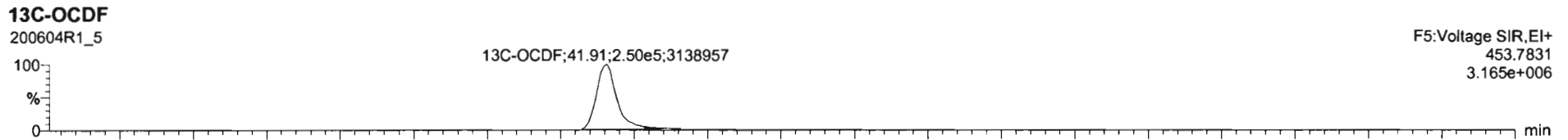
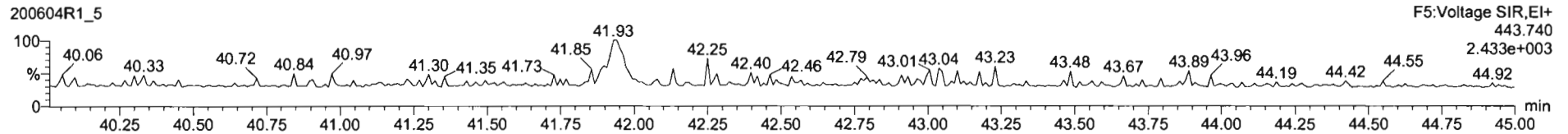
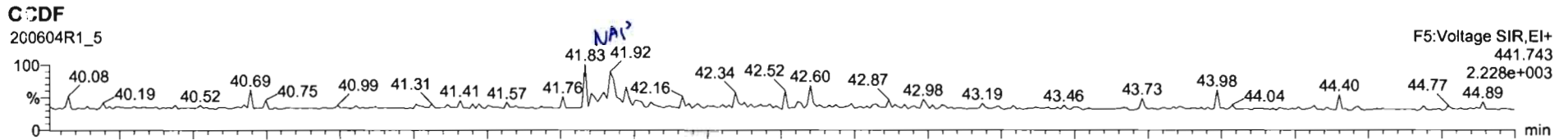




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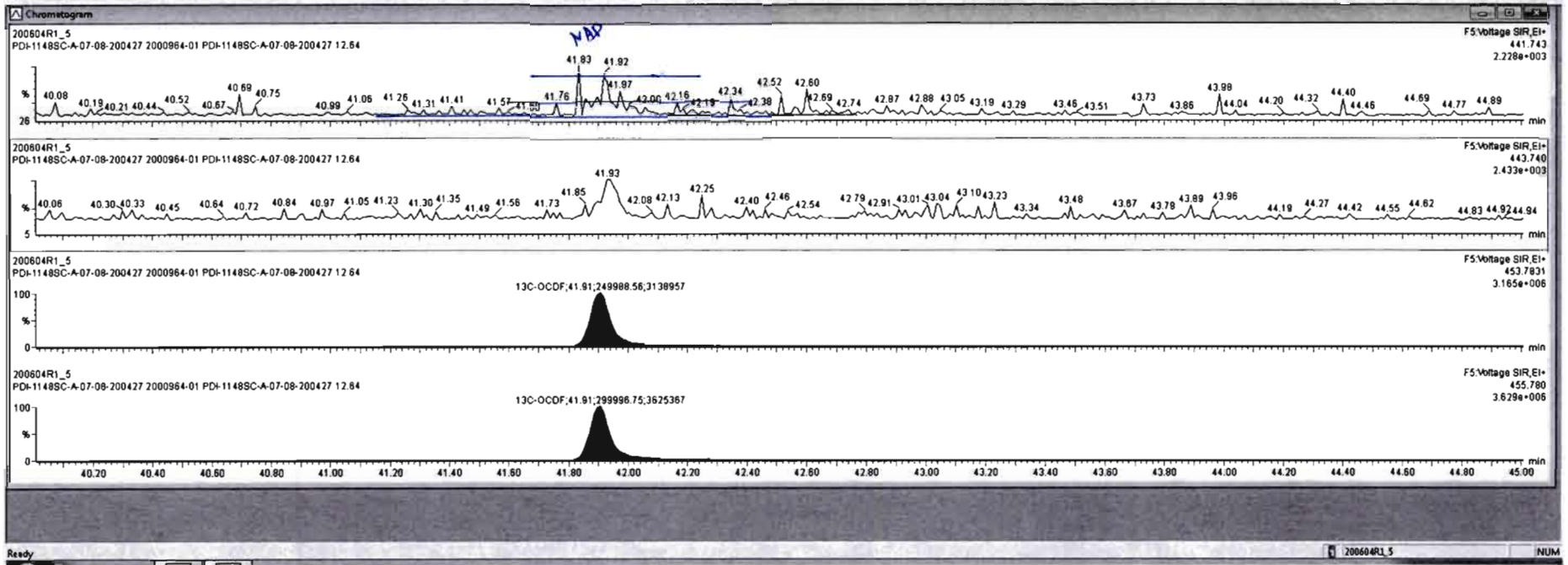
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Name: 200604R1\_5, Date: 04-Jun-2020, Time: 11:22:10, ID: 2000964-01 PDI-1148SC-A-07-08-200427 12.64, Description: PDI-1148SC-A-07-08-200427



Name	Resp	RA	n/y	PPF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
17	OCCF										
18	13C-2,3,7,8-TCDD	7.47e5	0.78	NO	1.1563	10.005	26.48	1.025	175	87.4	0.226
19	13C-1,2,3,7,8-PeCDD	5.46e5	0.65	NO	0.8490	10.005	31.45	1.218	175	87.4	0.326
20	13C-1,2,3,4,7,8-HxCDD	3.46e5	1.26	NO	0.7790	10.005	34.81	1.014	164	82.1	0.582
21	13C-1,2,3,6,7,8-HxCDD	4.57e5	1.30	NO	1.0167	10.005	34.92	1.017	166	83.0	0.446
22	13C-1,2,3,7,8-HxCDD	3.97e5	1.21	NO	0.9027	10.005	35.20	1.025	162	81.2	0.502
23	13C-1,2,3,4,6,7,8-HpCDD	2.85e5	1.06	NO	0.6892	10.005	38.73	1.126	153	76.3	0.511

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







Dataset: U:\VG12.PRO\Results\200604R1\200604R1-6B.qld

Last Altered: Tuesday, July 07, 2020 4:47:48 PM Pacific Daylight Time

Printed: Tuesday, July 07, 2020 4:48:53 PM Pacific Daylight Time

*HN 07/07/2020*

*CT 07/16/2020*

Method: Untitled 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1\_6, Date: 04-Jun-2020, Time: 12:08:25, ID: 2000964-02 PDI-148SC-A-00-01-200427 18.1, Description: PDI-148SC-A-00-01-200427

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.31e3	0.69	NO	0.888	10.075	26.516	26.51	1.001	1.001	0.40552		0.104	0.406
2	2 1,2,3,7,8-PeCDD	1.23e3	0.83	YES	0.908	10.075	31.473	31.47	1.001	1.000	0.55220		0.124	0.493
3	3 1,2,3,4,7,8-HxCDD	1.37e3	1.20	NO	1.03	10.075	34.836	34.84	1.000	1.000	0.87069		0.355	0.871
4	4 1,2,3,6,7,8-HxCDD	6.64e3	1.30	NO	0.892	10.075	34.933	34.95	1.000	1.001	3.8223		0.373	3.82
5	5 1,2,3,7,8,9-HxCDD	2.99e3	1.27	NO	0.887	10.075	35.220	35.22	1.000	1.000	2.0651		0.444	2.07
6	6 1,2,3,4,6,7,8-HpCDD	1.27e5	1.02	NO	0.864	10.075	38.747	38.76	1.000	1.001	131.43		0.806	131
7	7 OCDD	8.64e5	0.89	NO	0.914	10.075	41.717	41.73	1.000	1.000	1212.6		1.98	1210
8	8 2,3,7,8-TCDF	3.58e4	0.73	NO	0.751	10.075	25.627	25.62	1.001	1.001	10.664	(9.06)	0.143	10.7
9	9 1,2,3,7,8-PeCDF	4.67e4	1.57	NO	0.893	10.075	30.191	30.18	1.001	1.000	13.899		0.192	13.9
10	10 2,3,4,7,8-PeCDF	1.80e4	1.45	NO	0.935	10.075	31.165	31.16	1.001	1.000	5.4650		0.181	5.46
11	11 1,2,3,4,7,8-HxCDF	3.72e4	1.20	NO	0.884	10.075	33.942	33.96	1.000	1.001	20.488		0.222	20.5
12	12 1,2,3,6,7,8-HxCDF	1.22e4	1.20	NO	0.889	10.075	34.080	34.08	1.000	1.000	5.8692		0.199	5.87
13	13 2,3,4,6,7,8-HxCDF	3.40e3	1.16	NO	0.934	10.075	34.691	34.66	1.001	1.000	1.8634		0.230	1.86
14	14 1,2,3,7,8,9-HxCDF	1.03e3	1.23	NO	0.871	10.075	35.572	35.60	1.000	1.001	0.71499		0.347	0.715
15	15 1,2,3,4,6,7,8-HpCDF	2.51e4	1.02	NO	0.873	10.075	37.377	37.35	1.001	1.000	22.292		0.481	22.3
16	16 1,2,3,4,7,8,9-HpCDF	3.94e3	1.03	NO	1.01	10.075	39.289	39.31	1.000	1.001	4.5430		0.530	4.54
17	17 OCDF	5.28e4	0.87	NO	0.806	10.075	41.909	41.92	1.000	1.000	71.103		0.595	71.1
18	18 13C-2,3,7,8-TCDD	7.24e5	0.81	NO	1.16	10.075	26.522	26.48	1.026	1.025	162.69	82.0	0.232	
19	19 13C-1,2,3,7,8-PeCDD	4.86e5	0.63	NO	0.849	10.075	31.711	31.45	1.227	1.217	148.67	74.9	0.307	
20	20 13C-1,2,3,4,7,8-HxCDD	3.03e5	1.25	NO	0.779	10.075	34.831	34.83	1.014	1.014	137.85	69.4	0.424	
21	21 13C-1,2,3,6,7,8-HxCDD	3.86e5	1.27	NO	1.02	10.075	34.945	34.93	1.017	1.017	134.75	67.9	0.325	
22	22 13C-1,2,3,7,8,9-HxCDD	3.24e5	1.28	NO	0.903	10.075	35.216	35.21	1.025	1.025	127.17	64.1	0.366	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.22e5	1.07	NO	0.689	10.075	38.740	38.74	1.128	1.128	114.21	57.5	0.450	
24	24 13C-OCDD	3.10e5	0.90	NO	0.652	10.075	41.763	41.72	1.216	1.215	168.36	42.4	0.442	
25	25 13C-2,3,7,8-TCDF	8.87e5	0.75	NO	1.06	10.075	25.564	25.60	0.989	0.991	146.89	74.0	0.309	
26	26 13C-1,2,3,7,8-PeCDF	7.47e5	1.61	NO	0.838	10.075	30.093	30.17	1.165	1.168	156.40	78.8	0.627	
27	27 13C-2,3,4,7,8-PeCDF	7.01e5	1.59	NO	0.817	10.075	31.047	31.15	1.202	1.205	150.43	75.8	0.644	
28	28 13C-1,2,3,4,7,8-HxCDF	4.07e5	0.50	NO	1.01	10.075	33.962	33.94	0.989	0.988	143.29	72.2	0.454	
29	29 13C-1,2,3,6,7,8-HxCDF	4.63e5	0.50	NO	1.17	10.075	34.086	34.07	0.992	0.992	140.85	71.0	0.392	
30	30 13C-2,3,4,6,7,8-HxCDF	3.88e5	0.50	NO	1.02	10.075	34.660	34.66	1.009	1.009	134.74	67.9	0.448	
31	31 13C-1,2,3,7,8,9-HxCDF	3.29e5	0.50	NO	0.860	10.075	35.559	35.57	1.035	1.036	135.70	68.4	0.532	

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-6B.qld

Last Altered: Tuesday, July 07, 2020 4:47:48 PM Pacific Daylight Time  
Printed: Tuesday, July 07, 2020 4:48:53 PM Pacific Daylight Time

Name: 200604R1\_6, Date: 04-Jun-2020, Time: 12:08:25, ID: 2000964-02 PDI-148SC-A-00-01-200427 18.1, Description: PDI-148SC-A-00-01-200427

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.56e5	0.44	NO	0.774	10.075	37.308	37.34	1.086	1.087	117.06	59.0	0.509	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.70e5	0.42	NO	0.521	10.075	39.338	39.29	1.145	1.144	115.59	58.2	0.756	
34	34 13C-OCDF	3.65e5	0.85	NO	0.746	10.075	41.934	41.91	1.221	1.220	173.74	43.8	0.423	
35	35 37Cl-2,3,7,8-TCDD	2.92e5			1.04	10.075	26.553	26.51	1.028	1.026	73.091	92.1	0.0705	
36	36 13C-1,2,3,4-TCDD	7.64e5	0.79	NO	1.00	10.075	25.890	25.84	1.000	1.000	198.50	100	0.268	
37	37 13C-1,2,3,4-TCDF	1.13e6	0.78	NO	1.00	10.075	24.360	24.15	1.000	1.000	198.50	100	0.327	
38	38 13C-1,2,3,4,6,9-HxCDF	5.60e5	0.50	NO	1.00	10.075	34.420	34.35	1.000	1.000	198.50	100	0.458	
39	39 Total Tetra-Dioxins				0.888	10.075	24.620		0.000		5.3880		0.104	5.63
40	40 Total Penta-Dioxins				0.908	10.075	29.960		0.000		5.5380		0.134	6.46
41	41 Total Hexa-Dioxins				0.892	10.075	33.635		0.000		43.709		0.406	43.7
42	42 Total Hepta-Dioxins				0.864	10.075	37.640		0.000		329.26		0.806	329
43	43 Total Tetra-Furans				0.751	10.075	23.610		0.000		37.574		0.143	38.5
44	44 1st Func. Penta-Furans				0.893	10.075	27.580		0.000		6.7068		0.0238	6.71
45	45 Total Penta-Furans				0.893	10.075	29.275		0.000		39.655		0.191	39.7
46	46 Total Hexa-Furans				0.934	10.075	33.555		0.000		54.617		0.232	54.6
47	47 Total Hepta-Furans				0.873	10.075	37.835		0.000		79.473		0.535	79.5

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Dataset: U:\VG12.PRO\Results\200604R1\200604R1-6B.qld

Last Altered: Tuesday, July 07, 2020 4:47:48 PM Pacific Daylight Time

Printed: Tuesday, July 07, 2020 4:48:53 PM Pacific Daylight Time

Method: Untitled 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1\_6, Date: 04-Jun-2020, Time: 12:08:25, ID: 2000964-02 PDI-148SC-A-00-01-200427 18.1, Description: PDI-148SC-A-00-01-200427

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.49	2.391e4	2.632e4	2.198e3	2.620e3	0.84	NO	4.818e3	1.4873	1.4873	0.104
2	Total Tetra-Dioxins	22.95	6.858e3	9.024e3	6.724e2	9.034e2	0.74	NO	1.576e3	0.48640	0.48640	0.104
3	Total Tetra-Dioxins	23.44	3.353e3	6.361e3	1.780e2	3.105e2	0.57	YES	0.000e0	0.00000	0.12632	0.104
4	Total Tetra-Dioxins	24.60	5.751e3	5.787e3	3.444e2	4.407e2	0.78	NO	7.851e2	0.24233	0.24233	0.104
5	Total Tetra-Dioxins	26.24	5.636e4	7.114e4	3.952e3	5.011e3	0.79	NO	8.963e3	2.7664	2.7664	0.104
6	2,3,7,8-TCDD	26.51	8.821e3	1.124e4	5.379e2	7.759e2	0.89	NO	1.314e3	0.40552	0.40552	0.104
7	Total Tetra-Dioxins	26.84	3.293e3	3.086e3	1.871e2	2.071e2	0.90	YES	0.000e0	0.00000	0.11317	0.104

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.24	2.510e4	4.110e4	1.844e3	2.950e3	0.83	NO	4.794e3	2.1577	2.1577	0.134
2	Total Penta-Dioxins	29.73	1.139e4	1.524e4	5.014e2	7.319e2	0.68	NO	1.233e3	0.55505	0.55505	0.134
3	Total Penta-Dioxins	30.23	1.141e4	2.123e4	7.752e2	1.088e3	0.71	NO	1.863e3	0.83831	0.83831	0.134
4	Total Penta-Dioxins	30.38	1.375e4	1.772e4	5.293e2	9.049e2	0.58	NO	1.434e3	0.64545	0.64545	0.134
5	Total Penta-Dioxins	30.46	7.096e3	1.050e4	4.124e2	6.025e2	0.68	NO	1.015e3	0.45676	0.45676	0.134
6	Total Penta-Dioxins	30.72	1.167e4	1.536e4	7.306e2	1.235e3	0.59	NO	1.966e3	0.88474	0.88474	0.134
7	1,2,3,7,8-PeCDD	31.47	1.332e4	1.428e4	5.552e2	6.720e2	0.83	YES	1.227e3	0.00000	0.49295	0.134
8	Total Penta-Dioxins	31.50	5.236e3	5.495e3	3.172e2	3.369e2	0.94	YES	0.000e0	0.00000	0.24711	0.134
9	Total Penta-Dioxins	31.85	3.352e3	4.914e3	2.183e2	2.422e2	0.90	YES	0.000e0	0.00000	0.17769	0.134



Dataset: U:\VG12.PRO\Results\200604R1\200604R1-6B.qld

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Name: 200604R1\_6, Date: 04-Jun-2020, Time: 12:08:25, ID: 2000964-02 PDI-148SC-A-00-01-200427 18.1, Description: PDI-148SC-A-00-01-200427

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.33	2.818e5	2.196e5	1.420e4	1.176e4	1.21	NO	2.596e4	17.108	17.108	0.406
2	Total Hexa-Dioxins	33.88	2.704e4	2.288e4	1.677e3	1.265e3	1.33	NO	2.941e3	1.9385	1.9385	0.406
3	Total Hexa-Dioxins	34.15	1.798e5	1.523e5	1.326e4	1.070e4	1.24	NO	2.395e4	15.785	15.785	0.406
4	Total Hexa-Dioxins	34.26	2.249e4	2.051e4	1.160e3	9.138e2	1.27	NO	2.074e3	1.3667	1.3667	0.406
5	1,2,3,4,7,8-HxCDD	34.84	1.448e4	1.430e4	7.489e2	6.235e2	1.20	NO	1.372e3	0.87069	0.87069	0.355
6	1,2,3,6,7,8-HxCDD	34.95	6.023e4	4.172e4	3.754e3	2.883e3	1.30	NO	6.637e3	3.8223	3.8223	0.373
7	Total Hexa-Dioxins	35.12	1.042e4	1.117e4	6.324e2	5.093e2	1.24	NO	1.142e3	0.75237	0.75237	0.406
8	1,2,3,7,8,9-HxCDD	35.22	2.708e4	1.682e4	1.671e3	1.315e3	1.27	NO	2.986e3	2.0651	2.0651	0.444

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.74	1.196e6	1.141e6	9.727e4	9.382e4	1.04	NO	1.911e5	197.83	197.83	0.806
2	1,2,3,4,6,7,8-HpCDD	38.76	8.865e5	8.818e5	6.405e4	6.290e4	1.02	NO	1.270e5	131.43	131.43	0.806

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-6B.qld

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Name: 200604R1\_6, Date: 04-Jun-2020, Time: 12:08:25, ID: 2000964-02 PDI-148SC-A-00-01-200427 18.1, Description: PDI-148SC-A-00-01-200427

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.38	5.593e3	7.722e3	4.740e2	6.632e2	0.71	NO	1.137e3	0.33883	0.33883	0.143
2	Total Tetra-Furans	20.87	7.363e3	8.297e3	6.594e2	7.133e2	0.92	YES	0.000e0	0.00000	0.37618	0.143
3	Total Tetra-Furans	21.50	4.542e4	6.750e4	4.153e3	5.846e3	0.71	NO	1.000e4	2.9793	2.9793	0.143
4	Total Tetra-Furans	22.07	1.059e4	1.654e4	1.750e3	2.400e3	0.73	NO	4.149e3	1.2363	1.2363	0.143
5	Total Tetra-Furans	22.49	4.603e4	6.153e4	4.719e3	6.498e3	0.73	NO	1.122e4	3.3421	3.3421	0.143
6	Total Tetra-Furans	22.95	2.205e4	2.901e4	2.039e3	2.672e3	0.76	NO	4.711e3	1.4036	1.4036	0.143
7	Total Tetra-Furans	23.12	6.511e3	7.693e3	4.794e2	7.214e2	0.66	NO	1.201e3	0.35775	0.35775	0.143
8	Total Tetra-Furans	23.31	1.418e4	1.490e4	1.173e3	1.400e3	0.84	NO	2.573e3	0.76649	0.76649	0.143
9	Total Tetra-Furans	24.06	1.514e4	2.124e4	8.285e2	1.372e3	0.60	YES	0.000e0	0.00000	0.56744	0.143
10	Total Tetra-Furans	24.18	3.270e4	4.507e4	3.127e3	4.751e3	0.66	NO	7.877e3	2.3470	2.3470	0.143
11	Total Tetra-Furans	24.67	1.674e5	2.320e5	1.386e4	1.909e4	0.73	NO	3.295e4	9.8164	9.8164	0.143
12	Total Tetra-Furans	24.97	8.444e3	1.313e4	6.068e2	8.822e2	0.69	NO	1.489e3	0.44366	0.44366	0.143
13	Total Tetra-Furans	25.17	3.755e3	4.422e3	2.539e2	3.650e2	0.70	NO	6.188e2	0.18438	0.18438	0.143
14	Total Tetra-Furans	25.39	4.895e3	5.794e3	2.044e2	2.717e2	0.75	NO	4.761e2	0.14185	0.14185	0.143
15	Total Tetra-Furans	25.50	3.413e4	5.018e4	2.097e3	3.048e3	0.69	NO	5.145e3	1.5328	1.5328	0.143
16	2,3,7,8-TCDF	25.62	2.004e5	2.800e5	1.508e4	2.072e4	0.73	NO	3.579e4	10.664	10.664	0.143
17	Total Tetra-Furans	25.99	1.393e4	2.189e4	1.120e3	1.371e3	0.82	NO	2.490e3	0.74198	0.74198	0.143
18	Total Tetra-Furans	27.62	2.623e4	3.381e4	1.996e3	2.290e3	0.87	NO	4.286e3	1.2770	1.2770	0.143

**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	27.61	2.244e5	1.394e5	1.349e4	8.346e3	1.62	NO	2.183e4	6.7068	6.7068	0.0238

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Dataset: U:\VG12.PRO\Results\200604R1\200604R1-6B.qld

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Name: 200604R1\_6, Date: 04-Jun-2020, Time: 12:08:25, ID: 2000964-02 PDI-148SC-A-00-01-200427 18.1, Description: PDI-148SC-A-00-01-200427

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.06	2.084e4	1.058e4	1.170e3	7.352e2	1.59	NO	1.905e3	0.58525	0.58525	0.191
2	Total Penta-Furans	29.19	2.860e5	1.815e5	1.919e4	1.197e4	1.60	NO	3.115e4	9.5697	9.5697	0.191
3	Total Penta-Furans	29.79	4.320e4	2.492e4	2.968e3	1.761e3	1.69	NO	4.728e3	1.4524	1.4524	0.191
4	Total Penta-Furans	30.00	4.957e4	3.199e4	2.749e3	1.689e3	1.63	NO	4.438e3	1.3632	1.3632	0.191
5	1,2,3,7,8-PeCDF	30.18	4.952e5	3.351e5	2.854e4	1.818e4	1.57	NO	4.671e4	13.899	13.899	0.192
6	Total Penta-Furans	30.44	1.806e5	1.148e5	9.816e3	6.411e3	1.53	NO	1.623e4	4.9848	4.9848	0.191
7	2,3,4,7,8-PeCDF	31.16	2.259e5	1.582e5	1.068e4	7.348e3	1.45	NO	1.803e4	5.4650	5.4650	0.181
8	Total Penta-Furans	31.19	1.447e5	9.648e4	4.019e3	2.514e3	1.60	NO	6.533e3	2.0069	2.0069	0.191
9	Total Penta-Furans	32.09	1.186e4	6.263e3	6.357e2	4.333e2	1.47	NO	1.069e3	0.32838	0.32838	0.191

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.78	5.590e4	4.681e4	2.703e3	2.349e3	1.15	NO	5.052e3	2.7047	2.7047	0.232
2	Total Hexa-Furans	32.95	1.732e5	1.483e5	9.339e3	7.892e3	1.18	NO	1.723e4	9.2251	9.2251	0.232
3	Total Hexa-Furans	33.49	2.421e5	1.956e5	1.248e4	9.995e3	1.25	NO	2.248e4	12.034	12.034	0.232
4	1,2,3,4,7,8-HxCDF	33.96	4.024e5	3.098e5	2.030e4	1.686e4	1.20	NO	3.716e4	20.488	20.488	0.222
5	1,2,3,6,7,8-HxCDF	34.08	1.024e5	8.628e4	6.635e3	5.550e3	1.20	NO	1.218e4	5.8692	5.8692	0.199
6	2,3,4,6,7,8-HxCDF	34.66	2.958e4	3.174e4	1.829e3	1.575e3	1.16	NO	3.404e3	1.8634	1.8634	0.230
7	1,2,3,7,8,9-HxCDF	35.60	2.518e4	2.132e4	5.686e2	4.629e2	1.23	NO	1.031e3	0.71499	0.71499	0.347
8	Total Hexa-Furans	35.63	3.522e4	2.670e4	1.784e3	1.423e3	1.25	NO	3.208e3	1.7174	1.7174	0.232

**Hepta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.35	1.805e5	1.655e5	1.264e4	1.244e4	1.02	NO	2.507e4	22.292	22.292	0.481
2	Total Hepta-Furans	37.97	3.166e5	3.104e5	2.413e4	2.514e4	0.96	NO	4.927e4	52.638	52.638	0.535
3	1,2,3,4,7,8,9-HpCDF	39.31	3.207e4	2.847e4	1.997e3	1.939e3	1.03	NO	3.936e3	4.5430	4.5430	0.530

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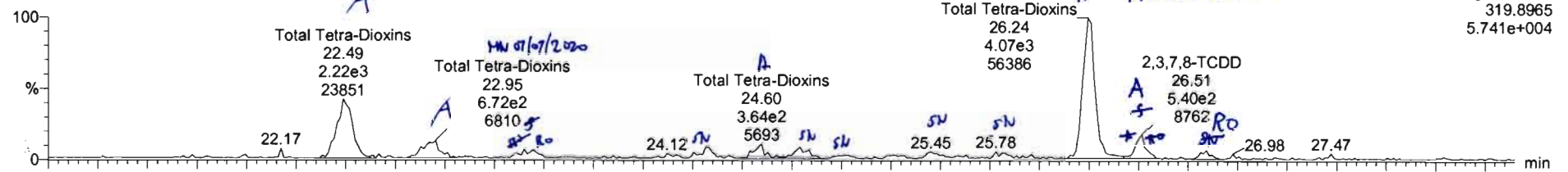
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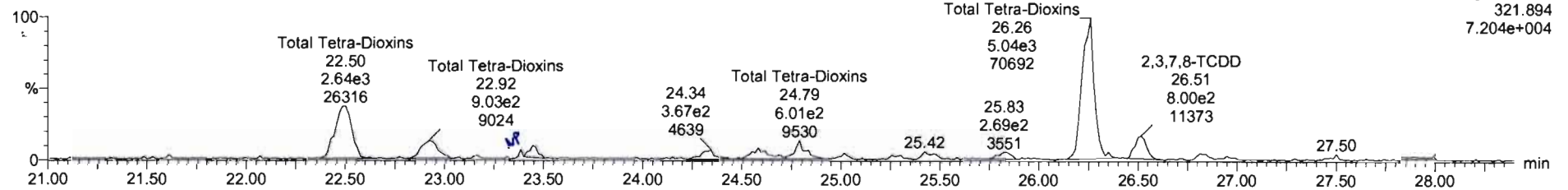
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200604R1\_6



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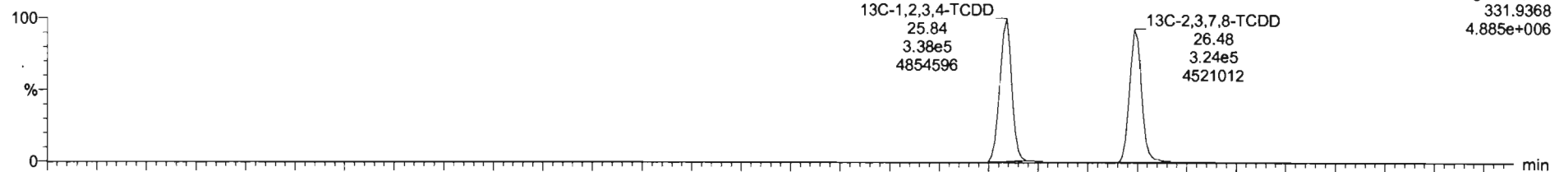
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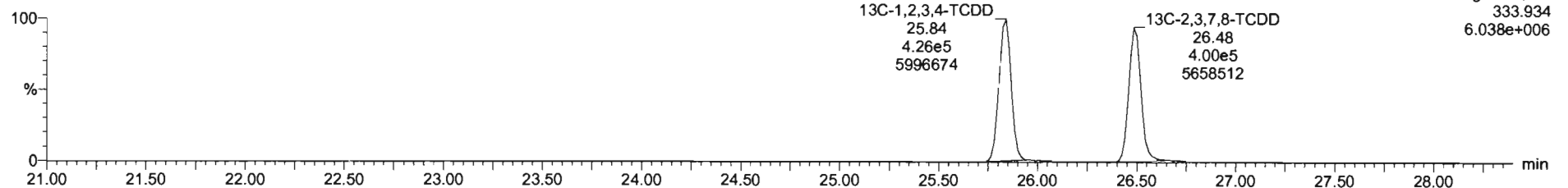
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200604R1\_6



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200604R1\_6



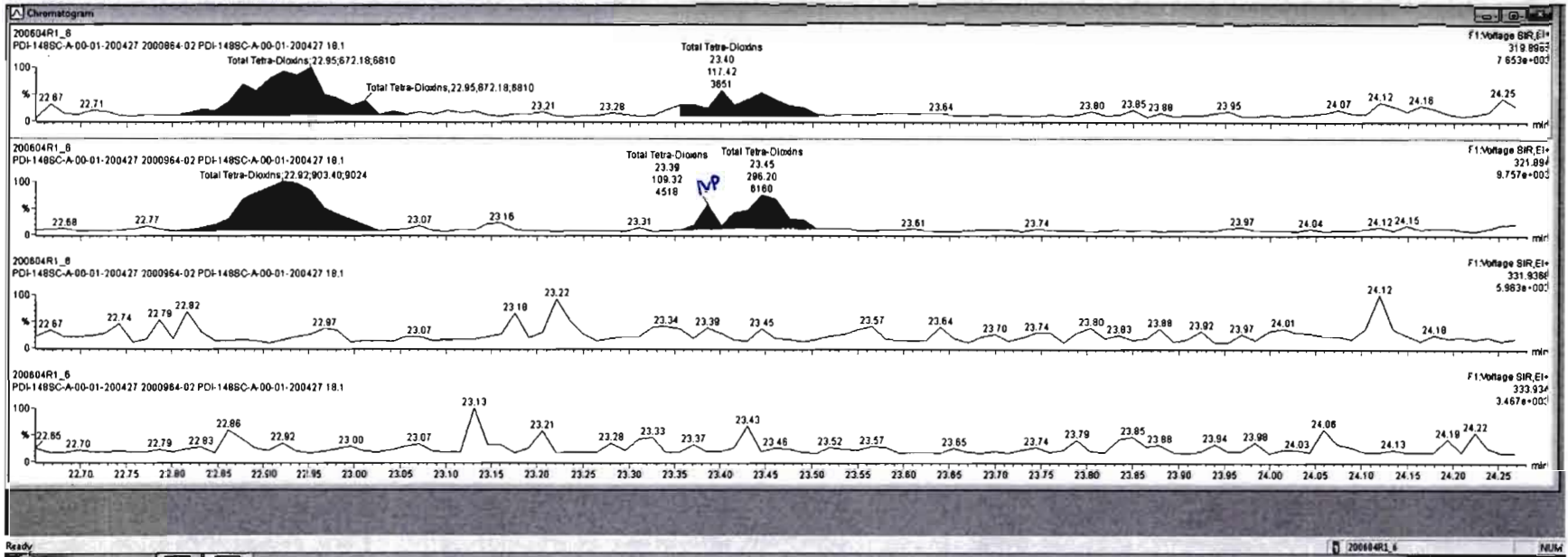
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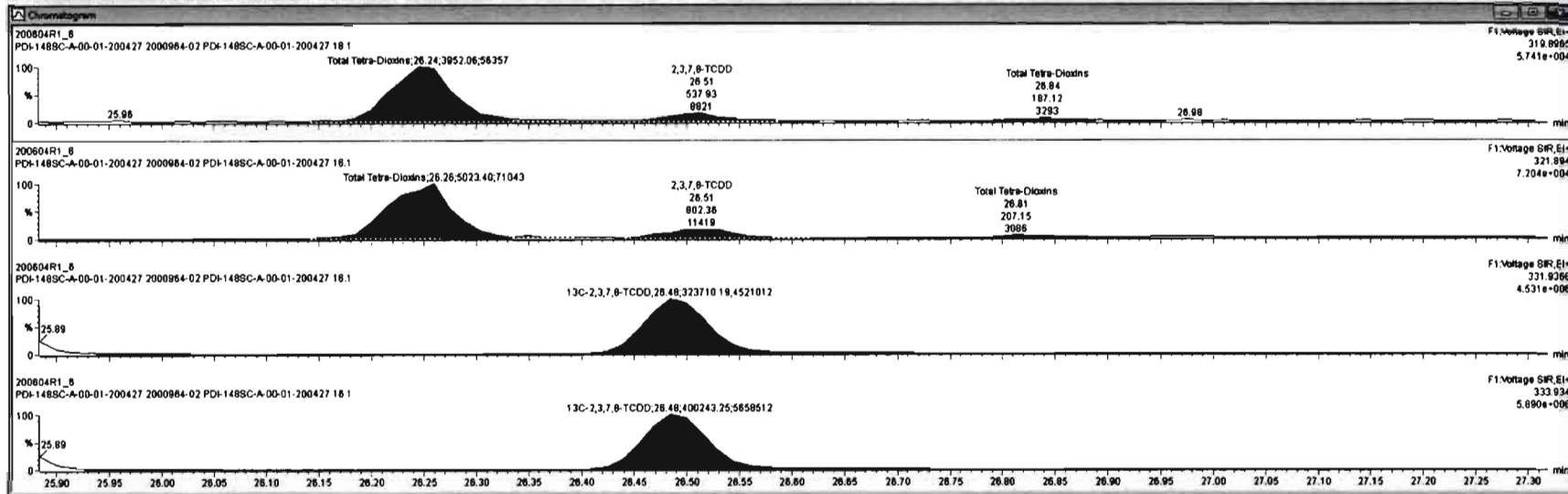
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39 Total Tetra-Dioxins				0.8953	10.075			5.47	0.104	5.79	
40 Total Penta-Dioxins				0.9061	10.075			5.57	0.134	6.48	
41 Total Hexa-Dioxins				0.8923	10.075			43.0	0.406	43.9	
42 Total Hepta-Dioxins				0.8639	10.075			337	0.906	336	
43 Total Tetra-Furans				0.7510	10.075			33.6	0.143	39.4	
44 1st Func. Penta-Furans				0.8925	10.075			6.71	0.0239	0.71	
45 Total Penta-Furans				0.8925	10.075			40.0	0.191	40.0	
46 Total Hexa-Furans				0.8341	10.075			44.9	0.339	46.0	

Name	RT	m1 Resp	m2 Resp	RA	rv1	EMPC	Conc
1 Total Tetra-Dioxins	22.49	2.199e3	2.620e3	0.84	NO	1.4873	1.4873
2 Total Tetra-Dioxins	22.95	8.722e2	9.034e2	0.74	NO	0.48633	0.48633
3 Total Tetra-Dioxins	23.40	1.174e2	1.063e2	1.07	YES	0.059725	0.00000
4 Total Tetra-Dioxins	23.45	1.786e2	2.952e2	0.60	YES	0.12632	0.00000



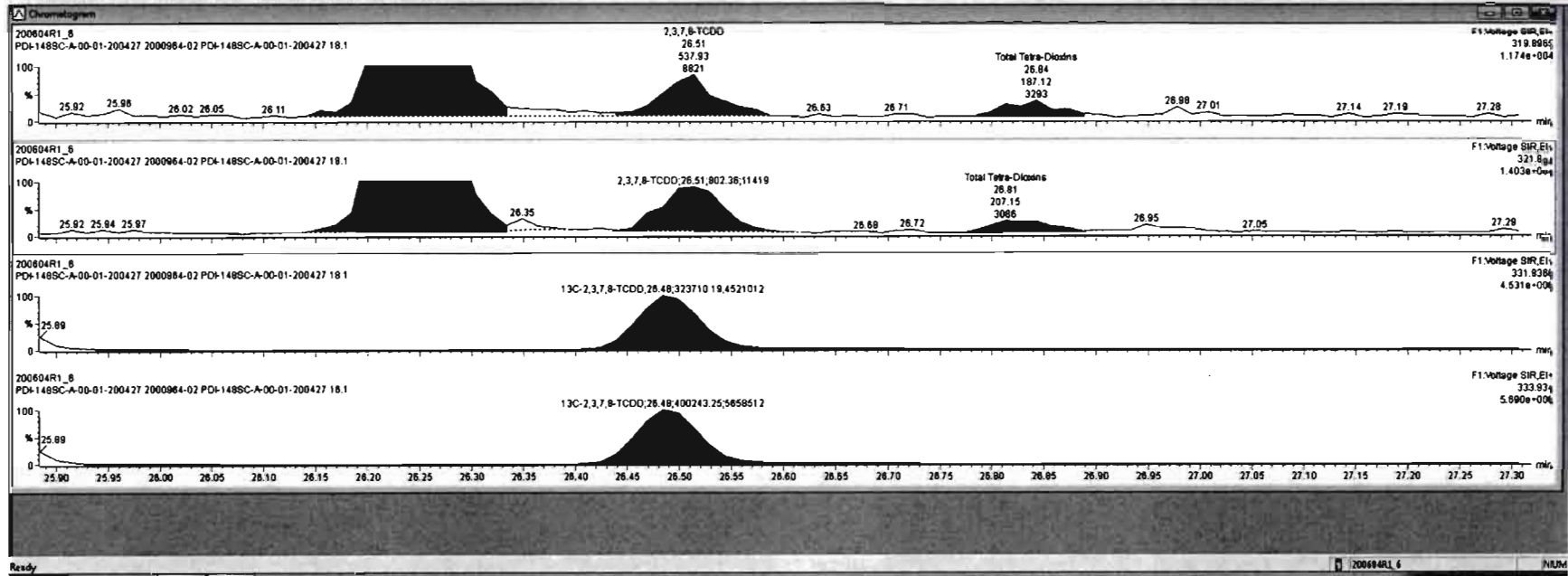
Name	Mass	RA	rvy	RFV	wtAvol	Prod.RT	RT	VRT	Conc	%Rec	OL	EMPC
38	Total Tetra-Dioxins			0.8883	10.075	24.82			5.40	0.104	5.84	
40	Total Penta-Dioxins			0.9081	10.075	29.98			5.54	0.134	6.46	
41	Total Hexa-Dioxins			0.8923	10.075	33.83			43.7	0.406	43.7	
42	Total Hepta-Dioxins			0.8630	10.075	37.64			329	0.806	329	
43	Total Tetra-Furans			0.7510	10.075	23.61			37.0	0.143	39.0	
44	1st Func. Penta-Furans			0.8925	10.075	27.50			6.71	0.0230	6.71	
45	Total Penta-Furans			0.8925	10.075	29.27			39.5	0.181	39.5	

Name	RT	int Resp	int Resp	RA	rvy	EMPC	Conc.
1	Total Tetra-Dioxins	22.49	2.190e3	2.620e3	0.84	ND	1.4873
2	Total Tetra-Dioxins	22.95	6.724e2	9.034e2	0.74	ND	0.40640
3	Total Tetra-Dioxins	24.80	3.444e2	4.407e2	0.78	ND	0.24233
4	Total Tetra-Dioxins	26.34	3.067e3	4.079e3	0.76	ND	0.37764



#	Name	Peak	RA	n/y	FW	valVol	Prod RT	RT	RRT	Conc.	%Rec	DL	EMPC
20	Total Tetra-Dioxins				0.9883	10.075	24.82			5.40		0.104	8.84
40	Total Penta-Dioxins				0.9081	10.075	26.96			5.54		0.134	8.40
41	Total Hexa-Dioxins				0.8923	10.075	33.83			43.7		0.408	43.7
42	Total Hepta-Dioxins				0.8629	10.075	37.84			328		0.806	329
43	Total Tetra-Furans				0.7510	10.075	23.81			37.0		0.143	38.0
44	1st Func. Penta-Furans				0.8925	10.075	27.58			8.71		0.0228	8.71
45	Total Penta-Furans				0.8925	10.075	29.27			38.5		0.191	38.5

#	Name	RT	ret Range	in2 Range	RA	n/y	EMPC	Conc.
1	Total Tetra-Dioxins	22.49	2.198e3	2.820e3	0.84	NO	1.4873	1.4873
2	Total Tetra-Dioxins	22.95	6.734e2	9.034e2	0.74	NO	0.48640	0.48640
3	Total Tetra-Dioxins	24.80	3.444e2	4.407e2	0.78	NO	0.24233	0.24233
4	Total Tetra-Dioxins	26.51	9.067e3	1.077e4	0.70	NO	0.7704	0.7704





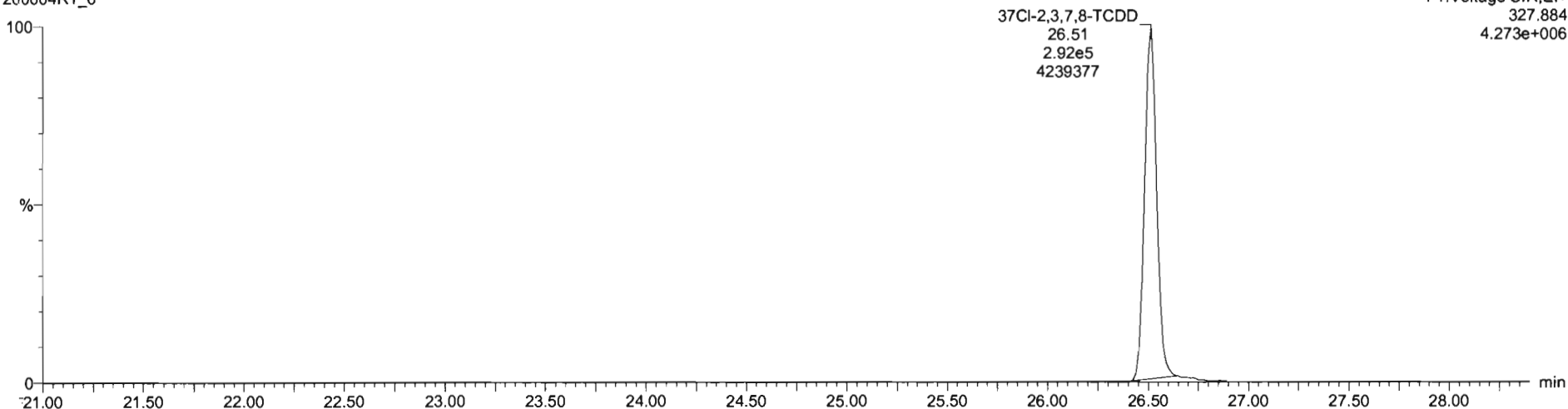
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**37Cl-2,3,7,8-TCDD**

200604R1\_6

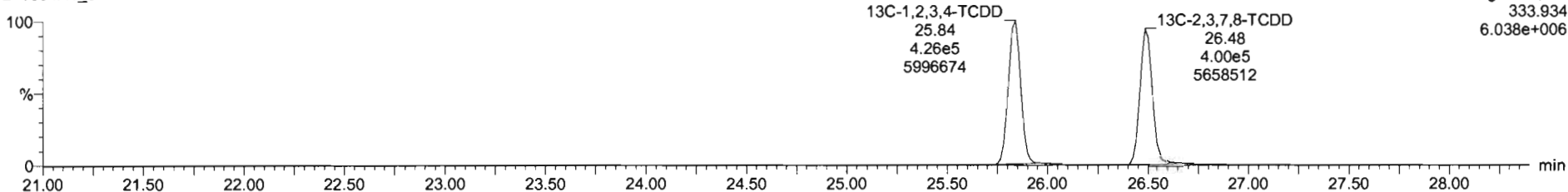


**13C-1,2,3,4-TCDD**

200604R1\_6



200604R1\_6

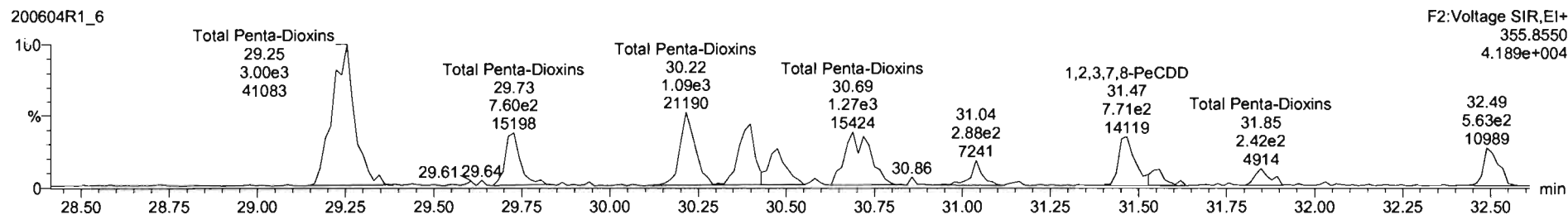
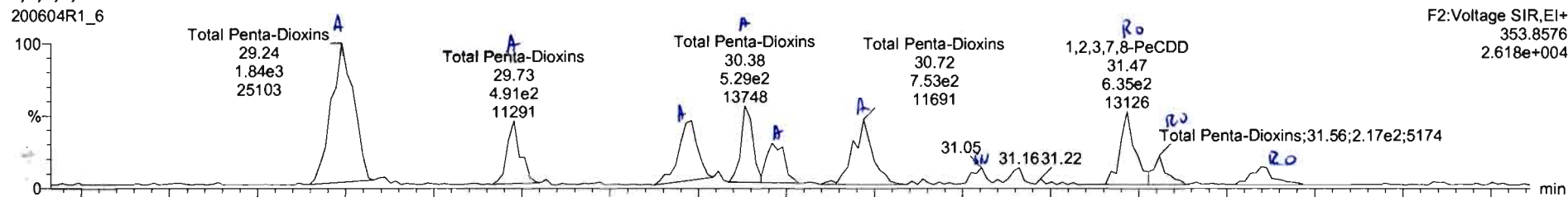


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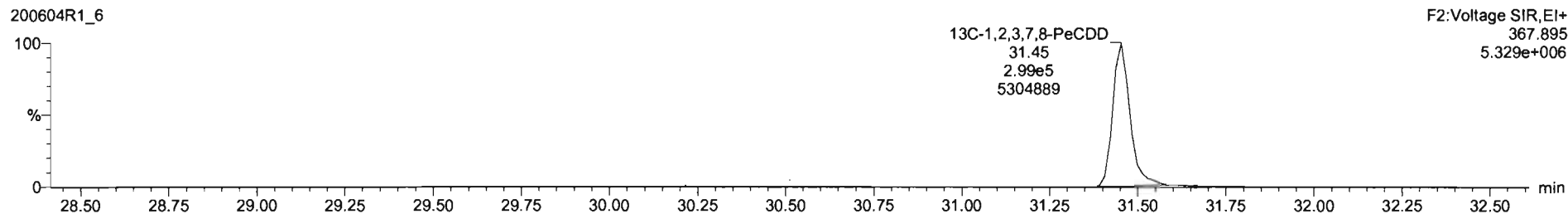
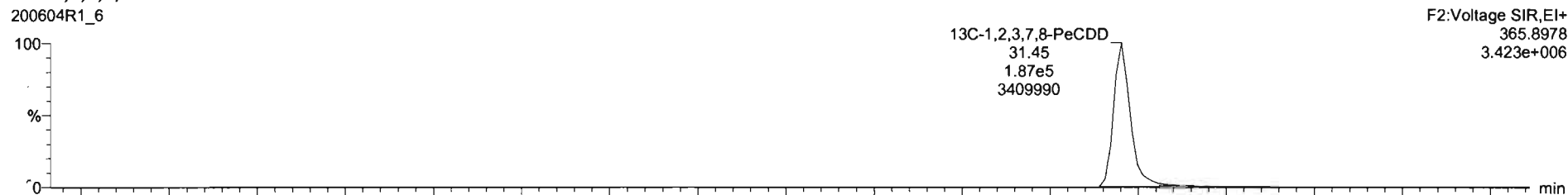
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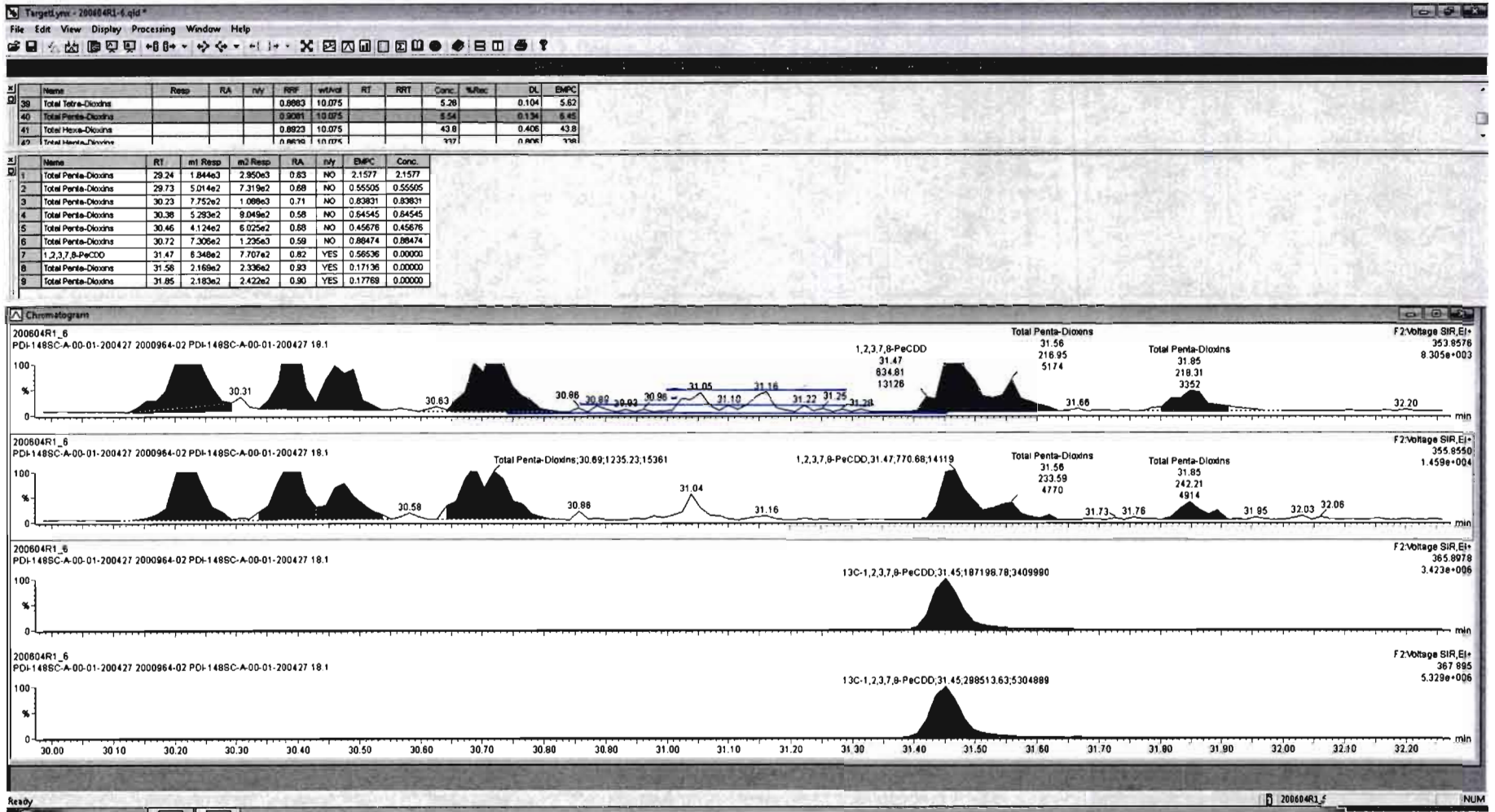
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1,2,3,7,8-PeCDD



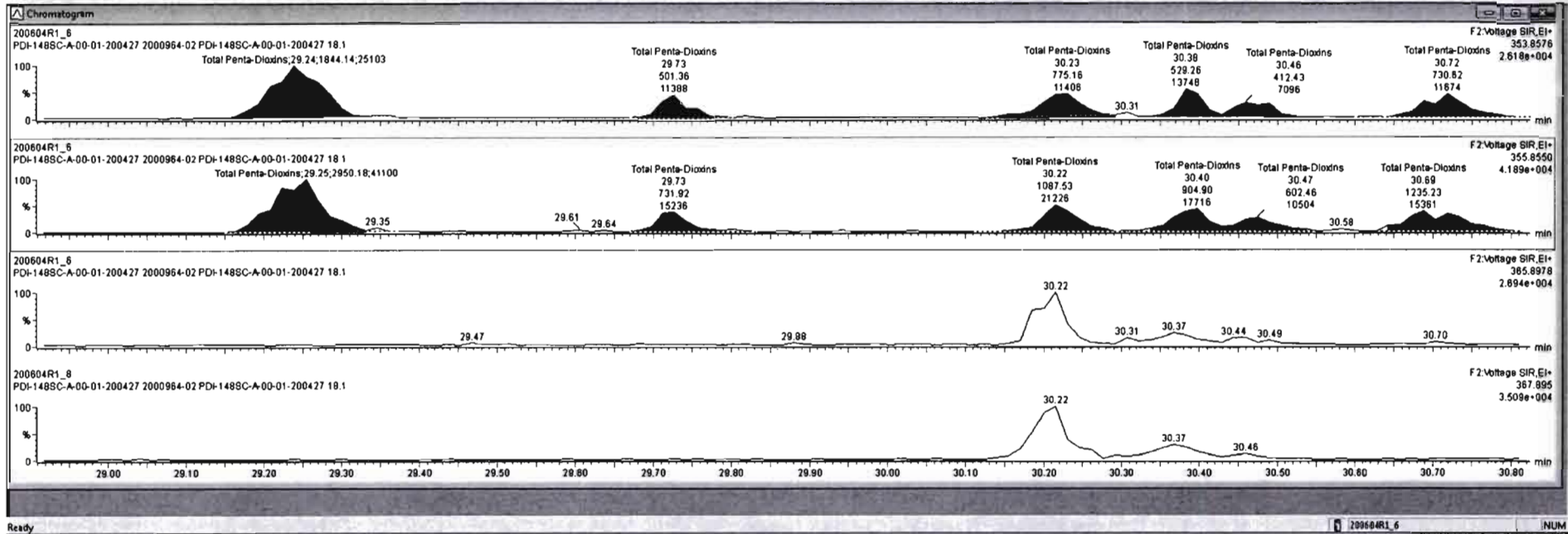
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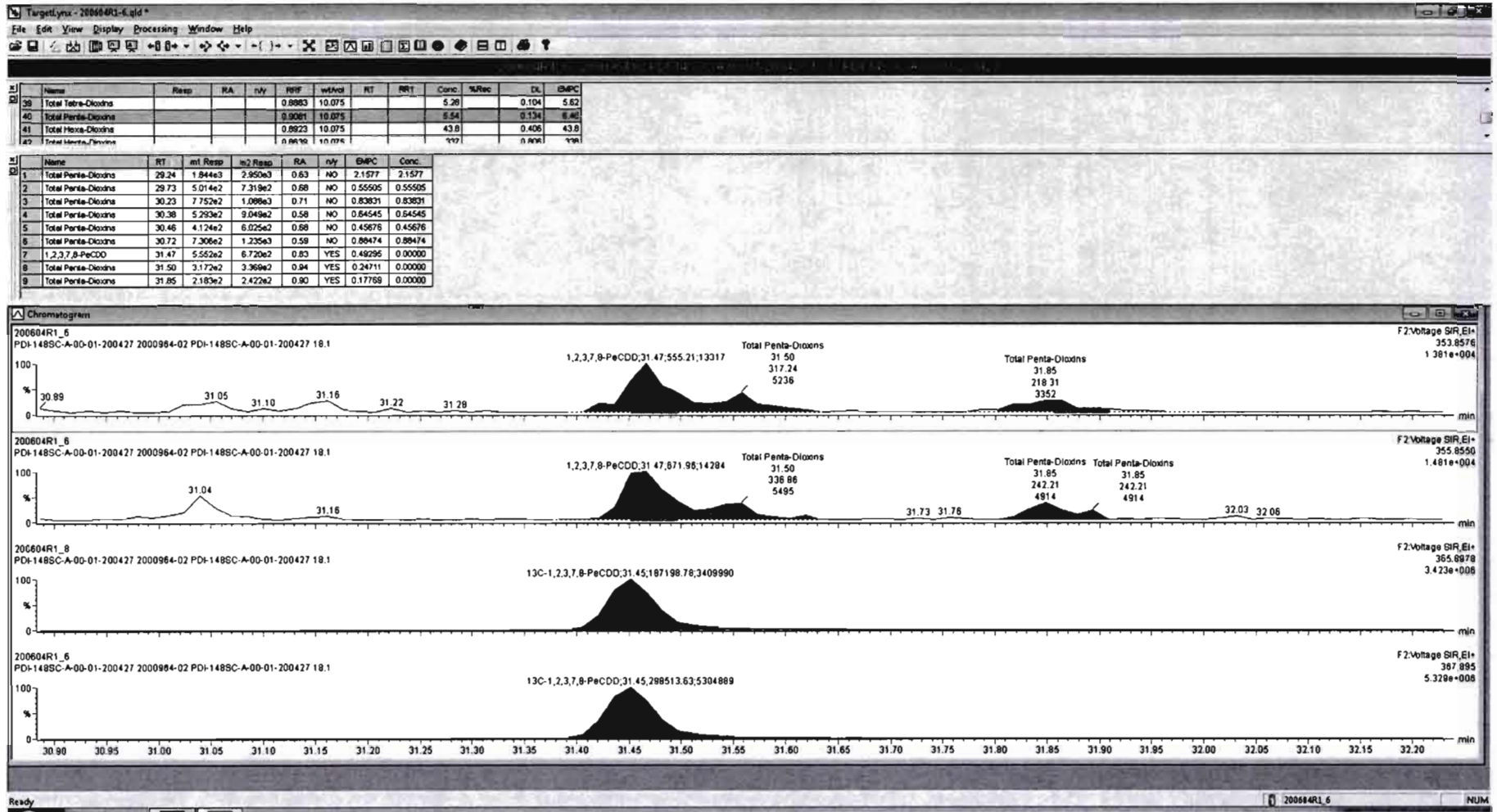




Name	Resp	RA	n/y	RRF	wtAvd	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.8863	10.075			5.28	0.104	5.82	
40 Total Penta-Dioxins				0.9081	10.075			5.54	0.134	6.45	
41 Total Hexa-Dioxins				0.8923	10.075			43.8	0.406	43.8	
42 Total Mono-Dioxins				0.8890	10.075			117	0.886	118	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	29.24	1.844e3	2.950e3	0.63	NO	2.1577	2.1577
2 Total Penta-Dioxins	29.73	5.014e2	7.319e2	0.68	NO	0.55505	0.55505
3 Total Penta-Dioxins	30.23	7.752e2	1.088e3	0.71	NO	0.83831	0.83831
4 Total Penta-Dioxins	30.38	5.293e2	9.049e2	0.58	NO	0.64545	0.64545
5 Total Penta-Dioxins	30.46	4.124e2	6.025e2	0.68	NO	0.45876	0.45876
6 Total Penta-Dioxins	30.72	7.306e2	1.235e3	0.58	NO	0.88474	0.88474
7 1,2,3,7,8-PeCDD	31.47	8.348e2	7.707e2	0.82	YES	0.56536	0.00000
8 Total Penta-Dioxins	31.56	2.169e2	2.336e2	0.93	YES	0.17136	0.00000
9 Total Penta-Dioxins	31.85	2.183e2	2.422e2	0.90	YES	0.17769	0.00000







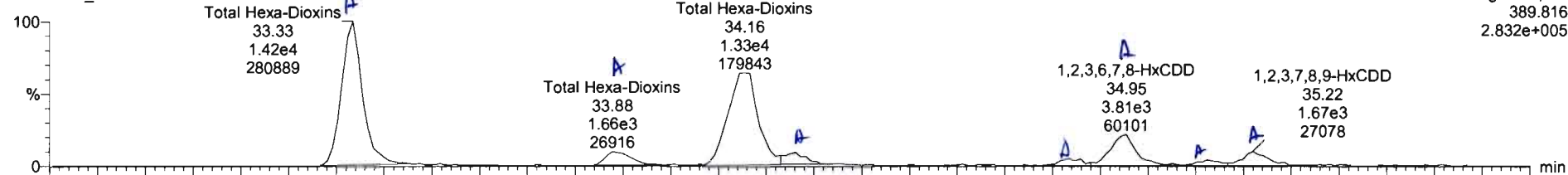
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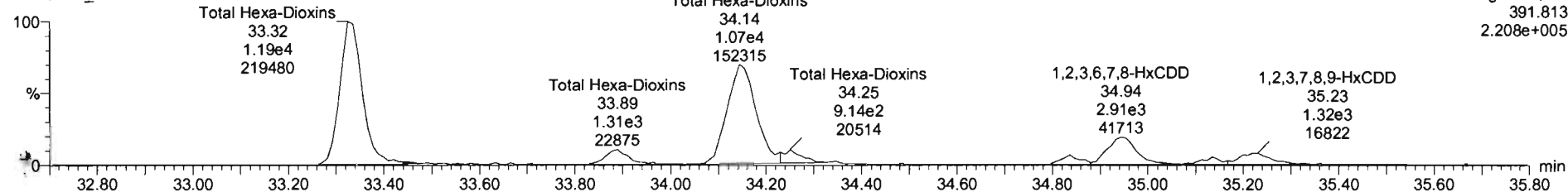
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1,2,3,4,7,8-HxCDD

200604R1\_6

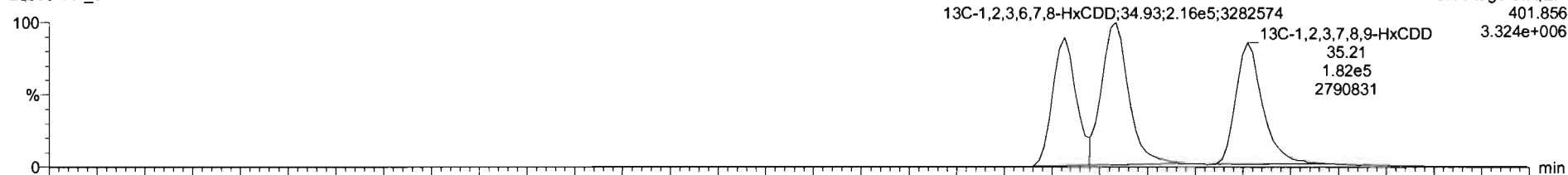


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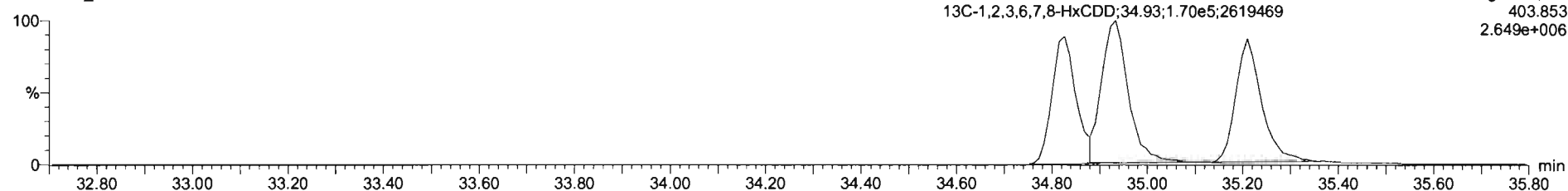


13C-1,2,3,4,7,8-HxCDD

200604R1\_6

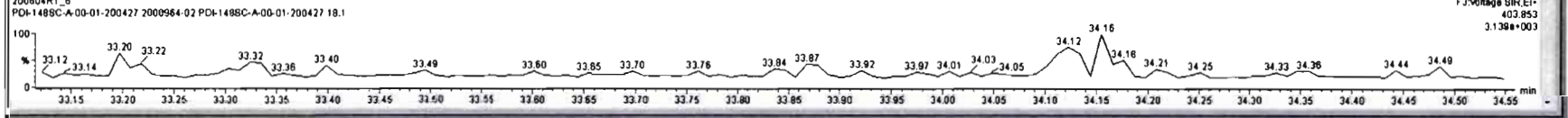
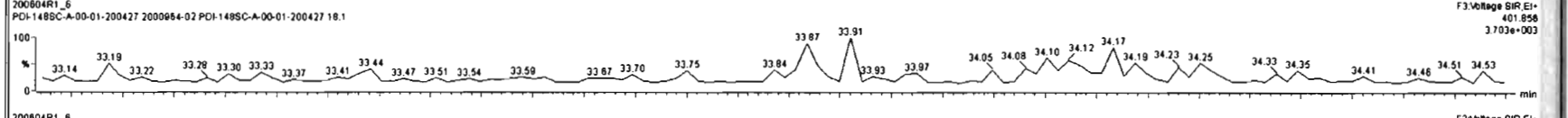
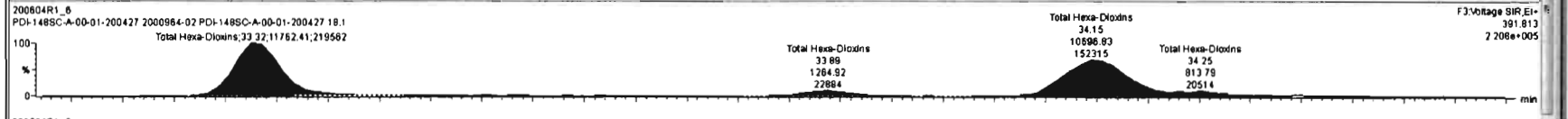
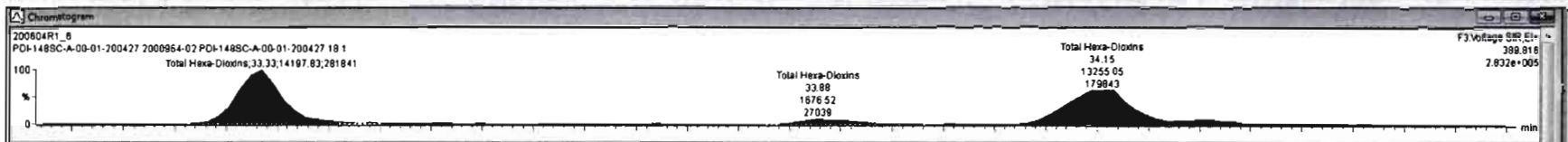


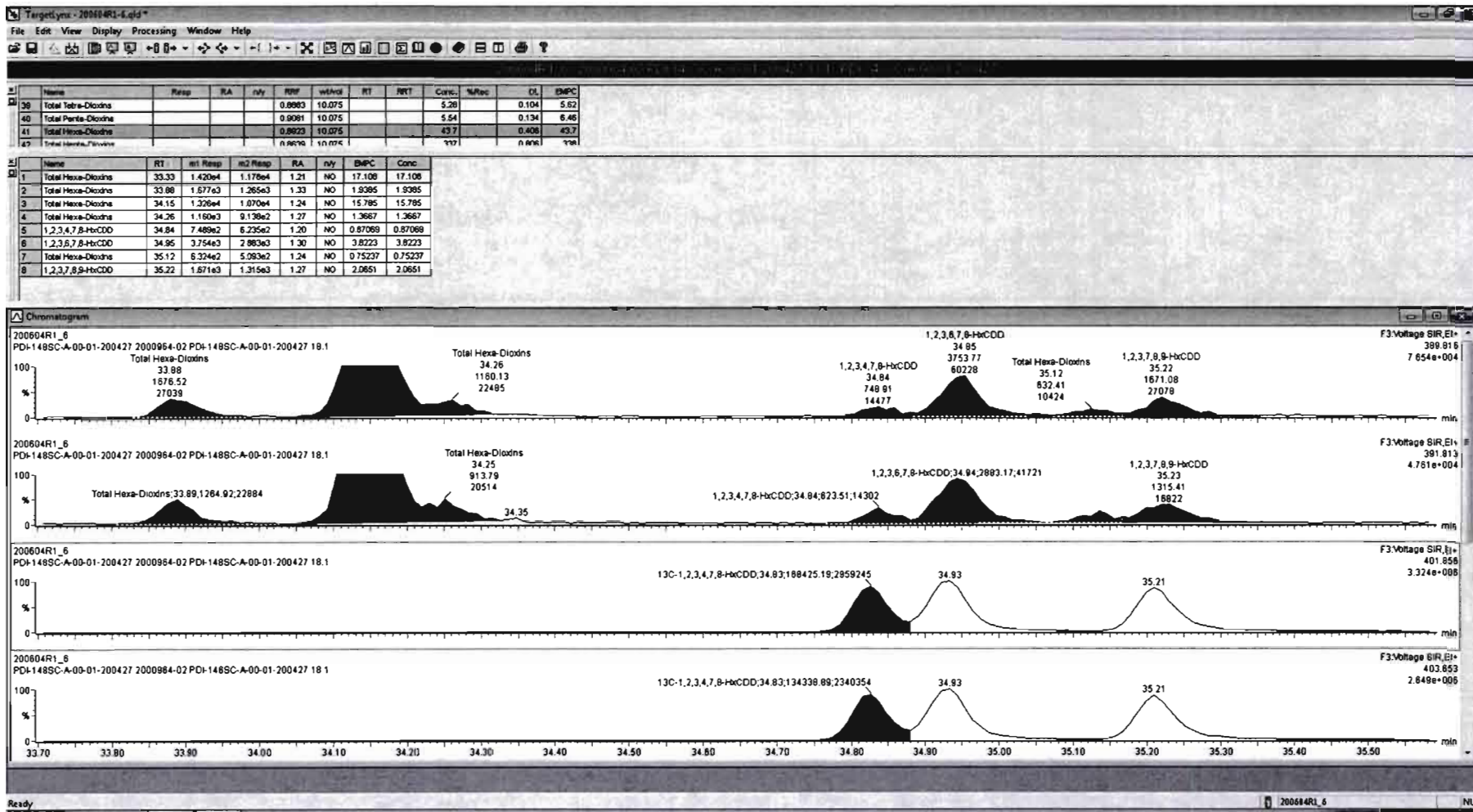
200604R1\_6



Name	Resp	RA	n/y	RPF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.0003	10.075			5.20	0.104	5.62	
40 Total Penta-Dioxins				0.9061	10.075			5.54	0.134	8.46	
41 Total Hexa-Dioxins				0.9523	10.075			43.7	0.406	43.7	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	33.33	1.420e4	1.176e4	1.21	NO	17.108	17.108
2 Total Hexa-Dioxins	33.88	1.877e3	1.265e3	1.33	NO	1.8395	1.8395
3 Total Hexa-Dioxins	34.15	1.326e4	1.070e4	1.24	NO	15.795	15.795
4 Total Hexa-Dioxins	34.26	1.160e3	9.130e2	1.27	NO	1.3667	1.3667
5 1,2,3,4,7,8-HxCDD	34.84	7.489e2	6.235e2	1.20	NO	0.87089	0.87089
6 1,2,3,6,7,8-HxCDD	34.85	3.754e3	2.863e3	1.30	NO	3.8223	3.8223
7 Total Hexa-Dioxins	35.12	6.324e2	5.090e2	1.24	NO	0.75237	0.75237
8 1,2,3,7,8,9-HxCDD	35.22	1.871e3	1.315e3	1.27	NO	2.0651	2.0651

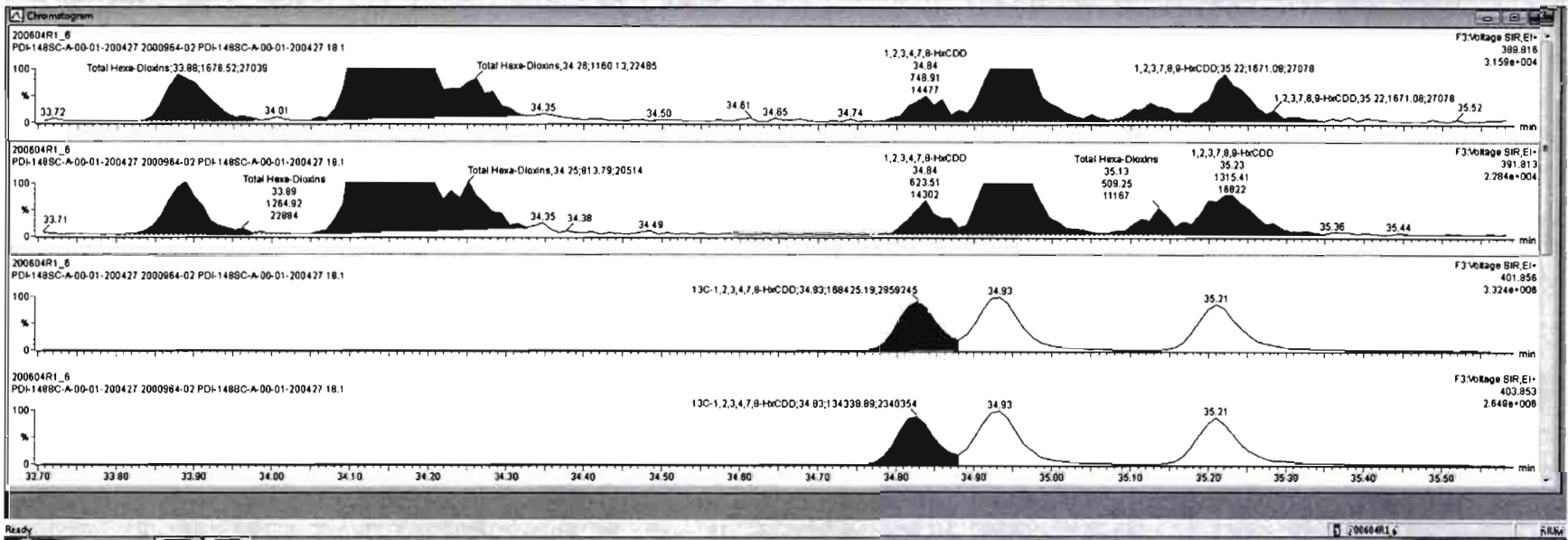






#	Name	Resp	RA	rv1	RF1	vdVol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8983	10.075			5.20	0.104	5.82	
40	Total Penta-Dioxins				0.9061	10.075			5.54	0.134	8.46	
41	Total Hexa-Dioxins				0.8923	10.075			43.7	0.409	43.7	
42	Total Hexa-Dioxins				n.n	n.n	<10.074		rv1	n.n	rv1	n.n

#	Name	RT	m1 Resp	m2 Resp	RA	rv1	EMPC	Conc.
1	Total Hexa-Dioxins	33.33	1.420e4	1.178e4	1.21	NO	17.108	17.108
2	Total Hexa-Dioxins	33.88	1.877e3	1.265e3	1.33	NO	1.9385	1.9385
3	Total Hexa-Dioxins	34.15	1.326e4	1.070e4	1.24	NO	15.785	15.785
4	Total Hexa-Dioxins	34.26	1.160e3	9.130e2	1.27	NO	1.3667	1.3667
5	1,2,3,4,7,8-HxCDD	34.84	7.489e2	8.235e2	1.20	NO	0.87089	0.87089
6	1,2,3,6,7,8-HxCDD	34.85	3.754e3	2.883e3	1.30	NO	3.8223	3.8223
7	Total Hexa-Dioxins	35.12	8.324e2	5.093e2	1.24	NO	0.75237	0.75237
8	1,2,3,7,8,9-HxCDD	35.22	1.871e3	1.315e3	1.27	NO	2.0651	2.0651



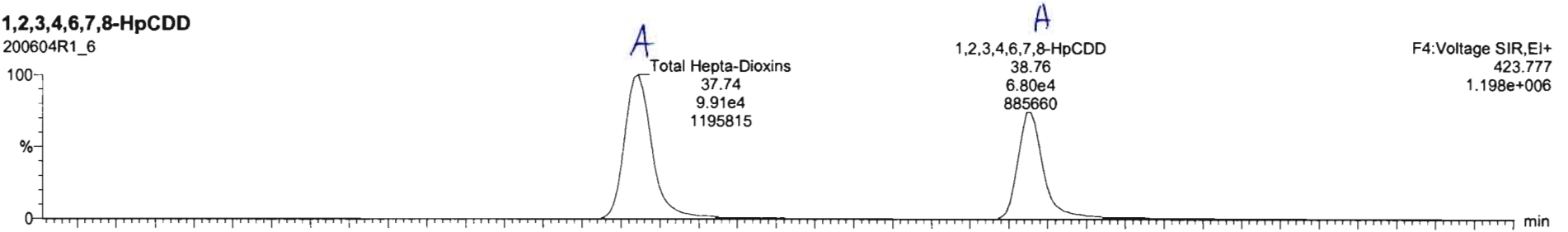
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

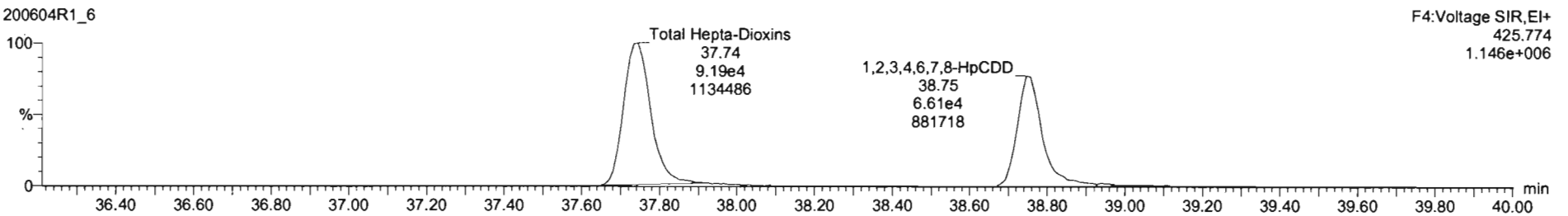
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1,2,3,4,6,7,8-HpCDD

200604R1\_6

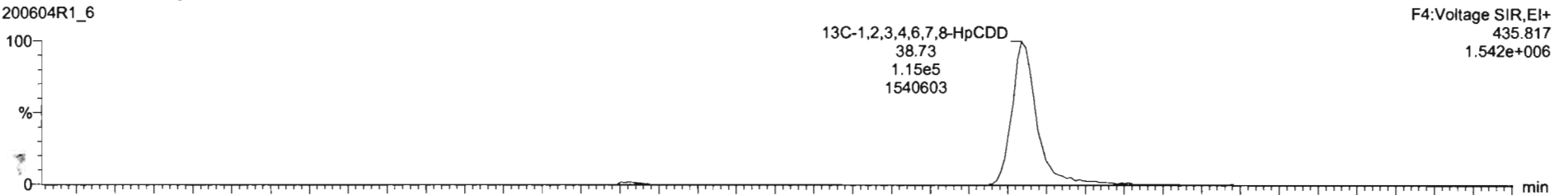


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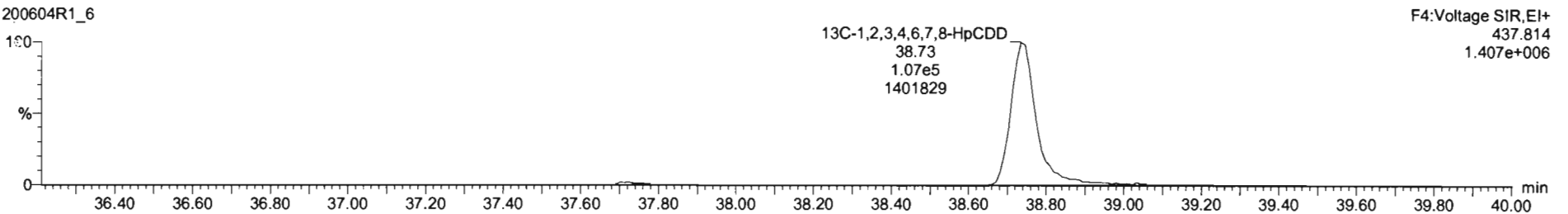


13C-1,2,3,4,6,7,8-HpCDD

200604R1\_6



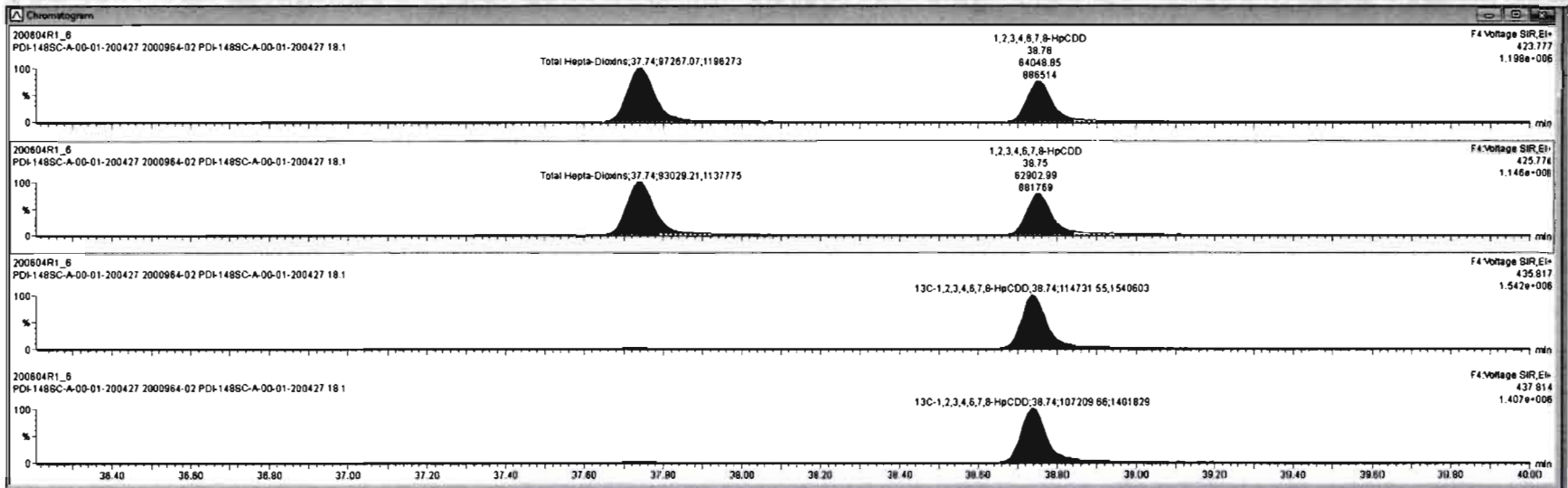
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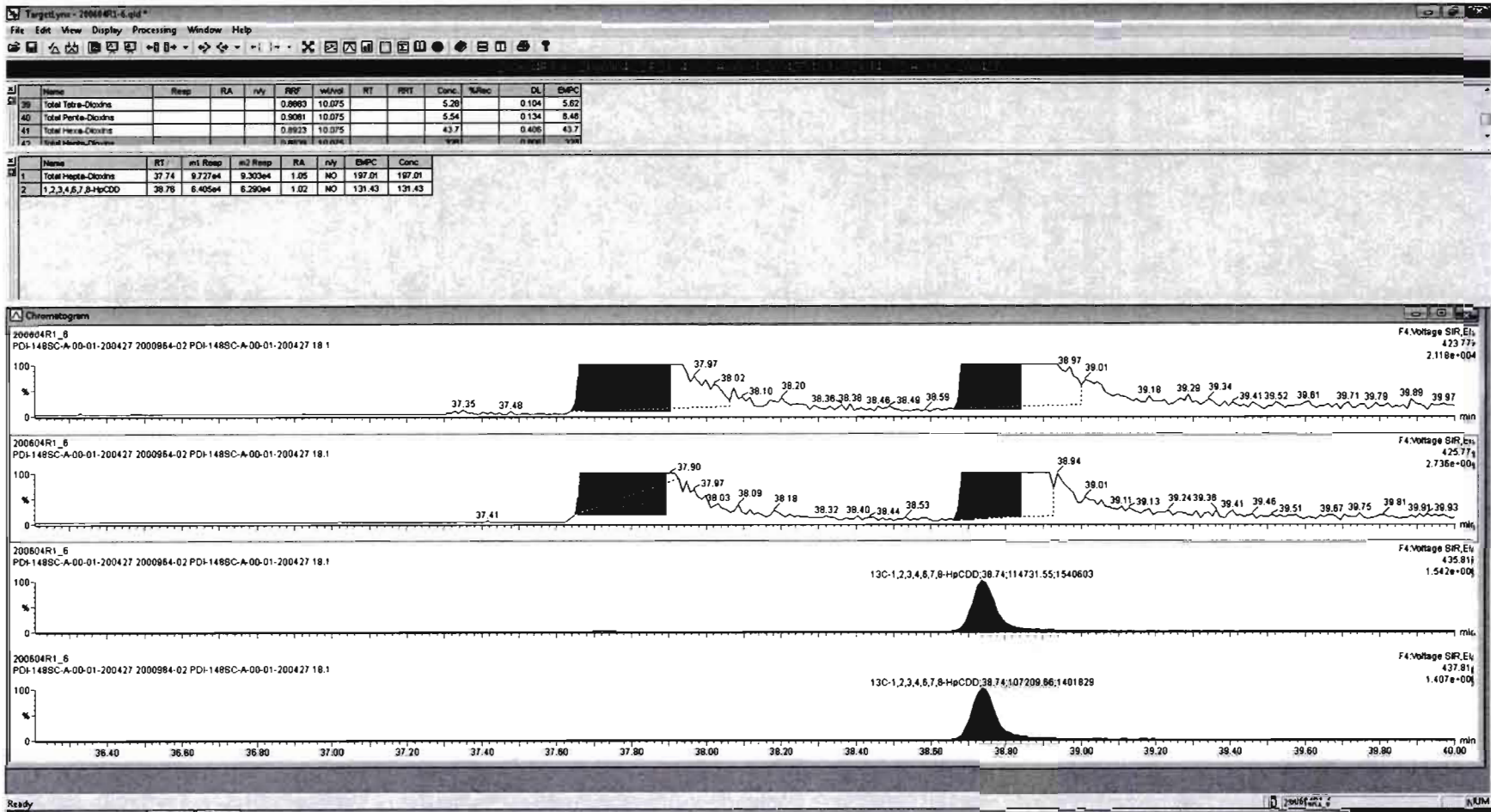
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 File Edit View Display Processing Window Help

#	Name	Resp	RA	nly	RFR	wtVal	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8983	10.075			5.29	0.104	5.62	
40	Total Penta-Dioxins				0.9081	10.075			5.54	0.134	8.46	
41	Total Hexa-Dioxins				0.8923	10.075			43.7	0.405	43.7	
42	Total Hepta-Dioxins				Trace	40.00%						

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Hepta-Dioxins	37.74	9.727e4	9.303e4	1.05	NO	197.01	197.01
2	1,2,3,4,6,7,8-HpCDD	38.76	6.405e4	6.290e4	1.02	NO	131.43	131.43



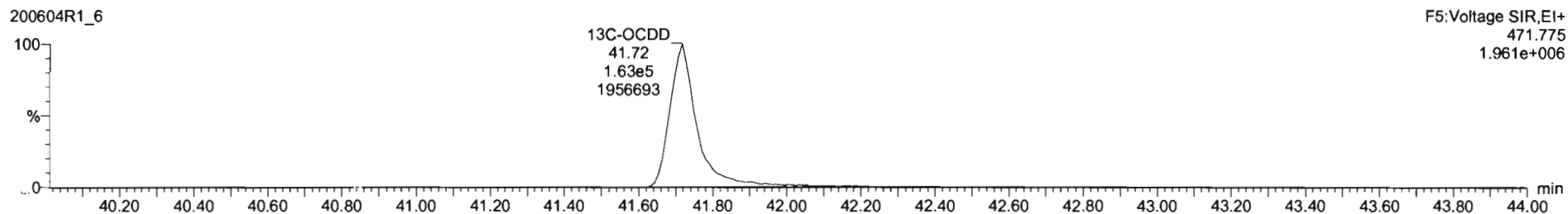
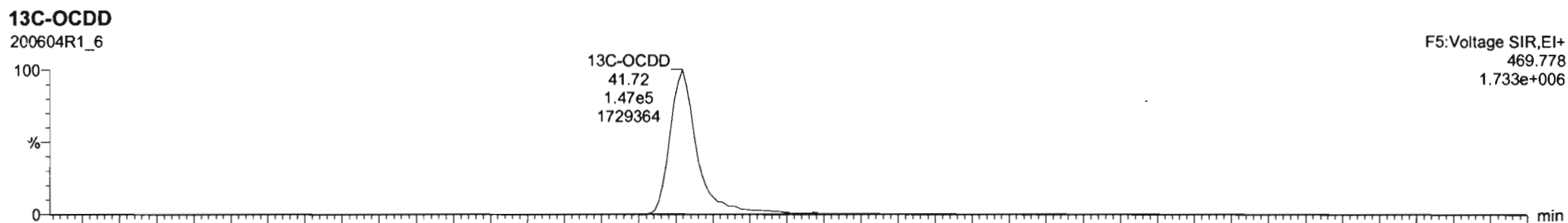
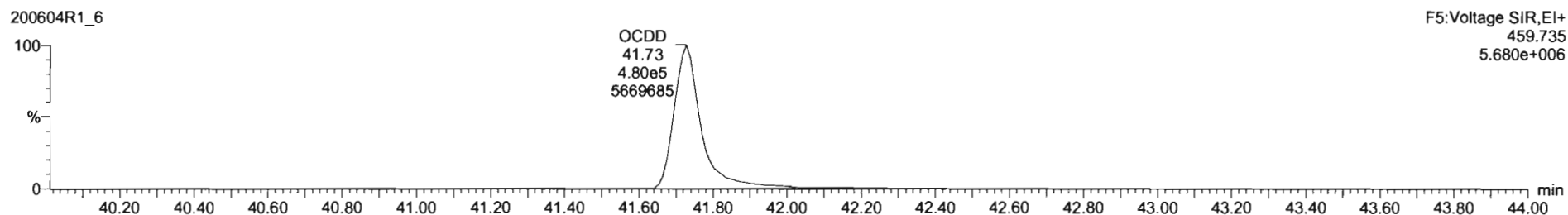
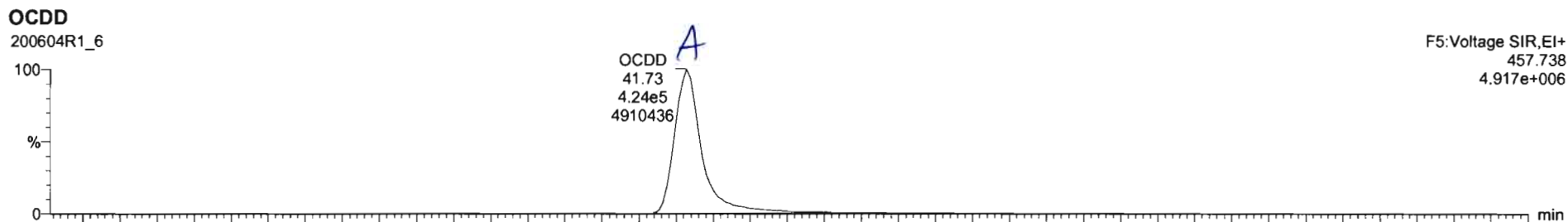
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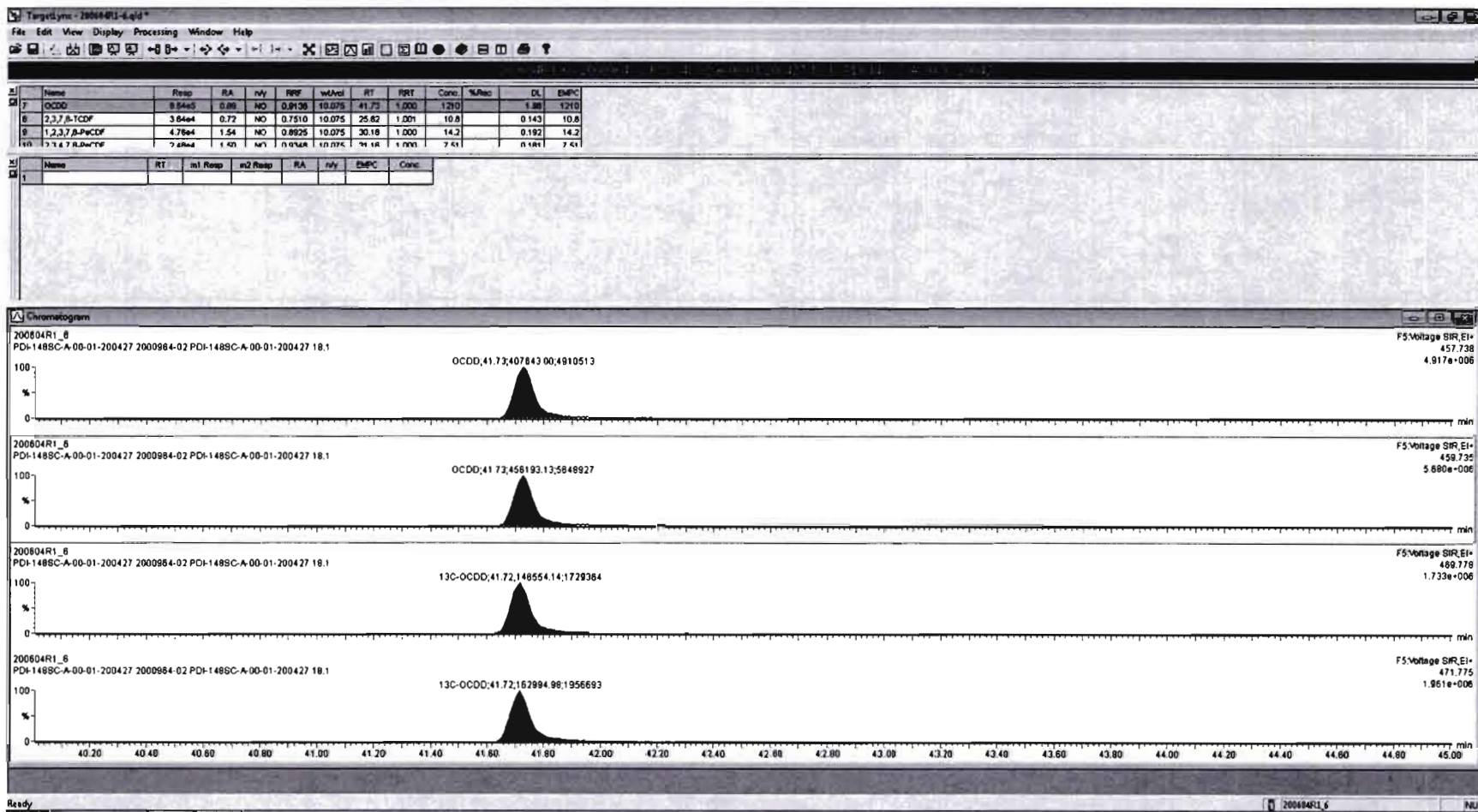
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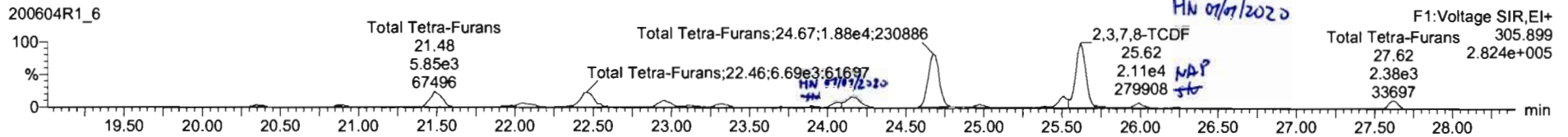
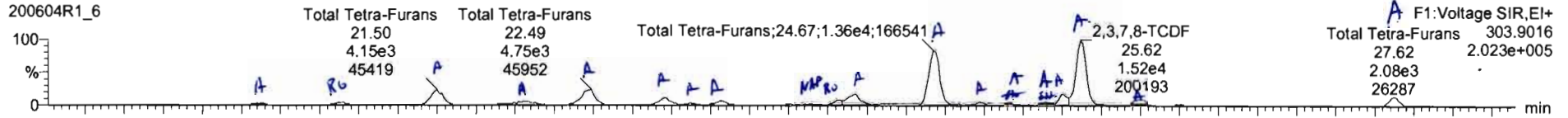


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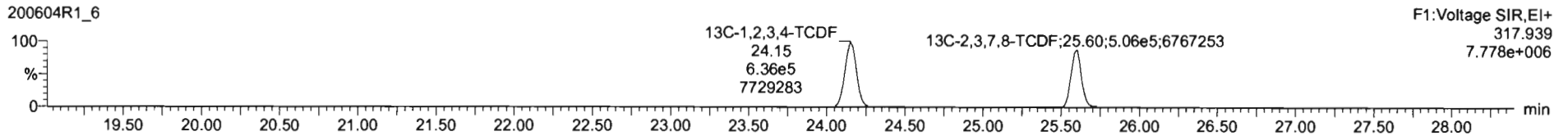
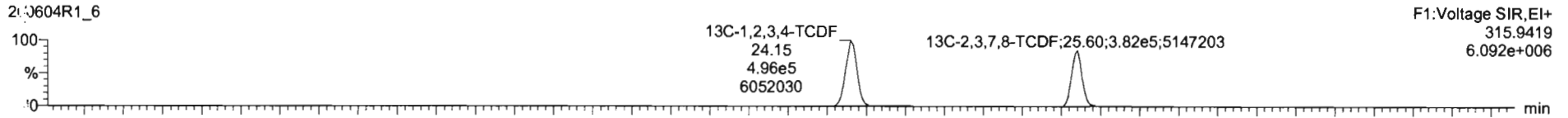
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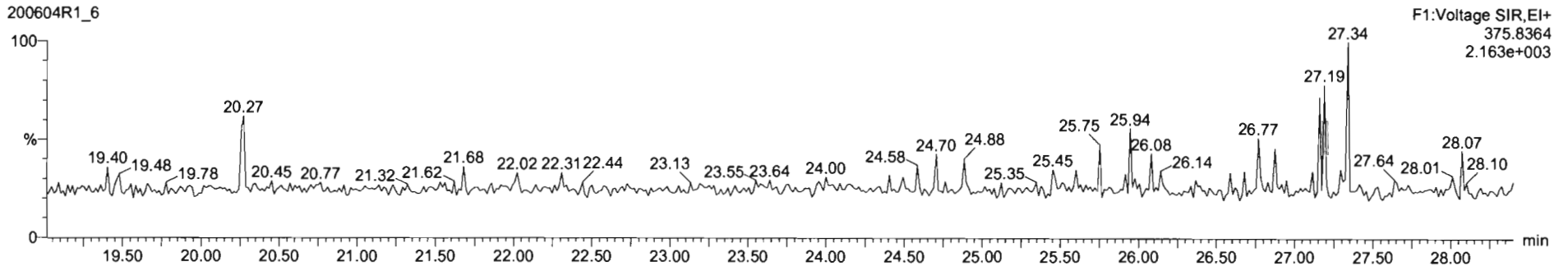
2,3,7,8-TCDF



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

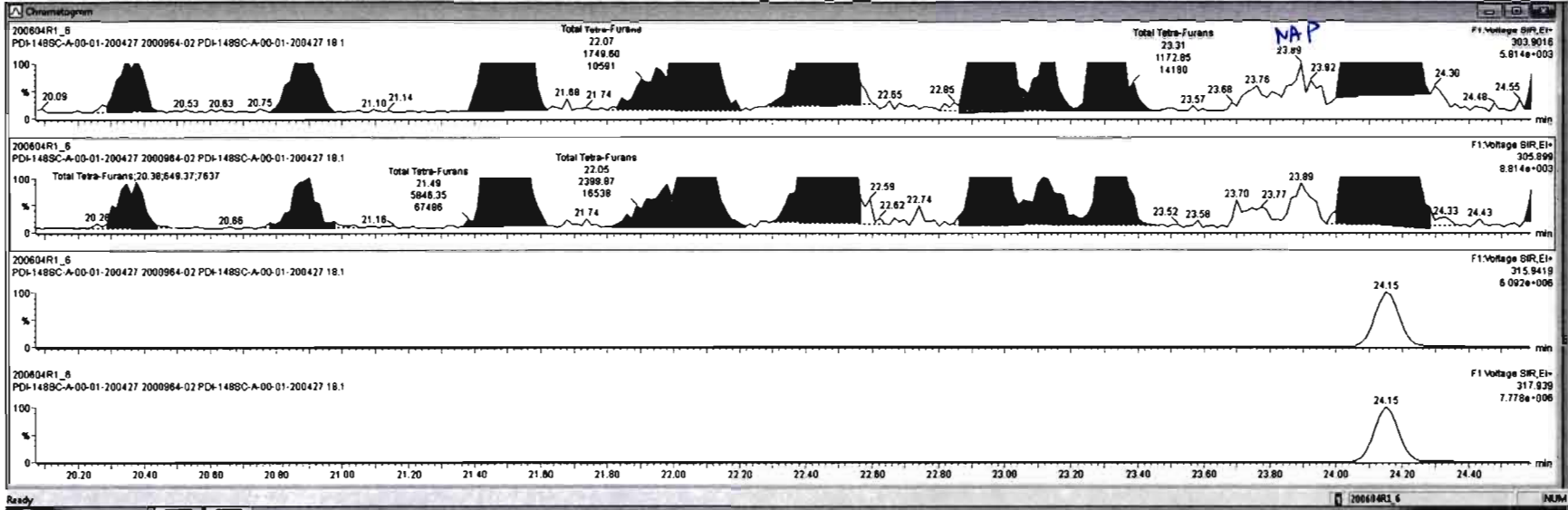


DPE1



RT	Name	Resp	RA	n/y	RP	Method	Prod RT	RT	RTI	Conc	%Rec	DL	EMPC
22.07	Total Tetra-Furans				0.7918	10.075	22.07			37.2		0.143	38.2
22.07	1st Furc. Penta-Furans				0.8925	10.075	22.58			8.71		0.0226	8.71
22.07	Total Penta-Furans				0.8925	10.075	28.27			39.5		0.191	39.5
22.07	Total Hexa-Furans				0.8341	10.075	33.58			54.8		0.232	54.8
22.07	Total Hepta-Furans				0.8734	10.075	37.83			79.5		0.536	79.5
	PPK1												
	PPK2												

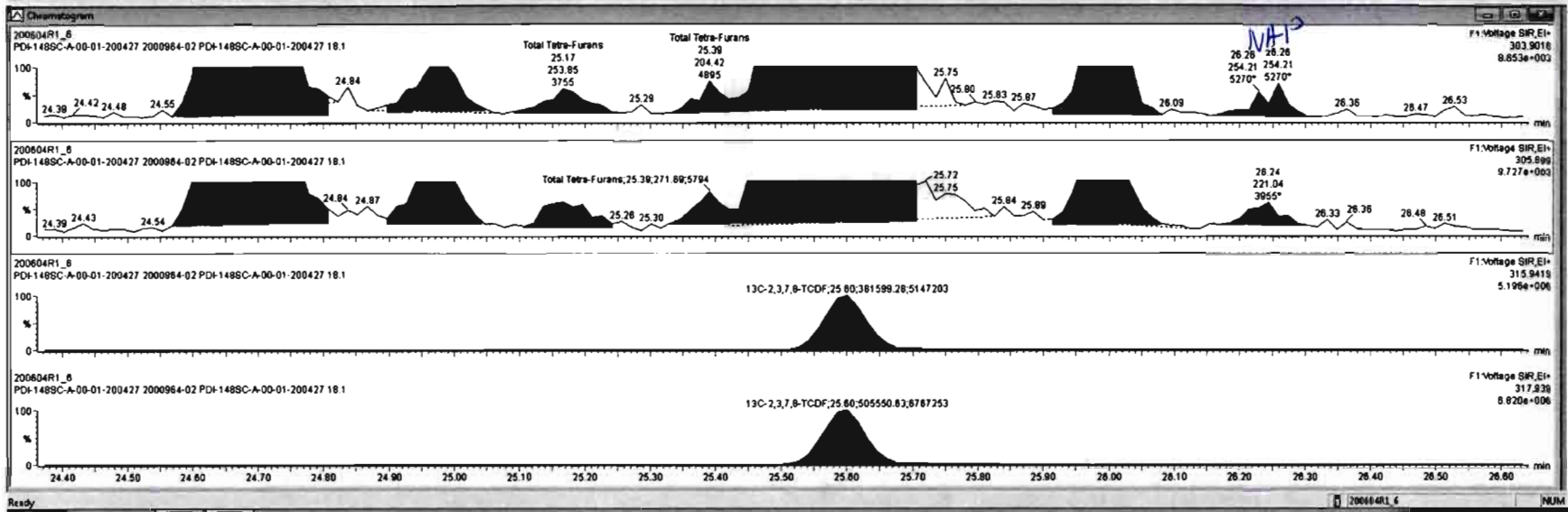
RT	Name	RT	Int Resp	Int Resp	RA	n/y	EMPC	Conc
20.36	Total Tetra-Furans	20.36	4.740e2	6.494e2	0.73	NO	0.33470	0.33470
20.87	Total Tetra-Furans	20.87	6.594e2	7.133e2	0.82	YES	0.37818	0.00000
21.50	Total Tetra-Furans	21.50	4.153e3	5.848e3	0.71	NO	2.8780	2.8780
22.07	Total Tetra-Furans	22.07	1.750e3	2.400e3	0.73	NO	1.2383	1.2383
22.48	Total Tetra-Furans	22.48	4.719e3	6.498e3	0.73	NO	3.3421	3.3421
22.95	Total Tetra-Furans	22.95	2.039e3	2.872e3	0.78	NO	1.4036	1.4036
23.12	Total Tetra-Furans	23.12	4.784e2	7.214e2	0.68	NO	0.35775	0.35775
23.31	Total Tetra-Furans	23.31	1.173e3	1.400e3	0.84	NO	0.78848	0.78848

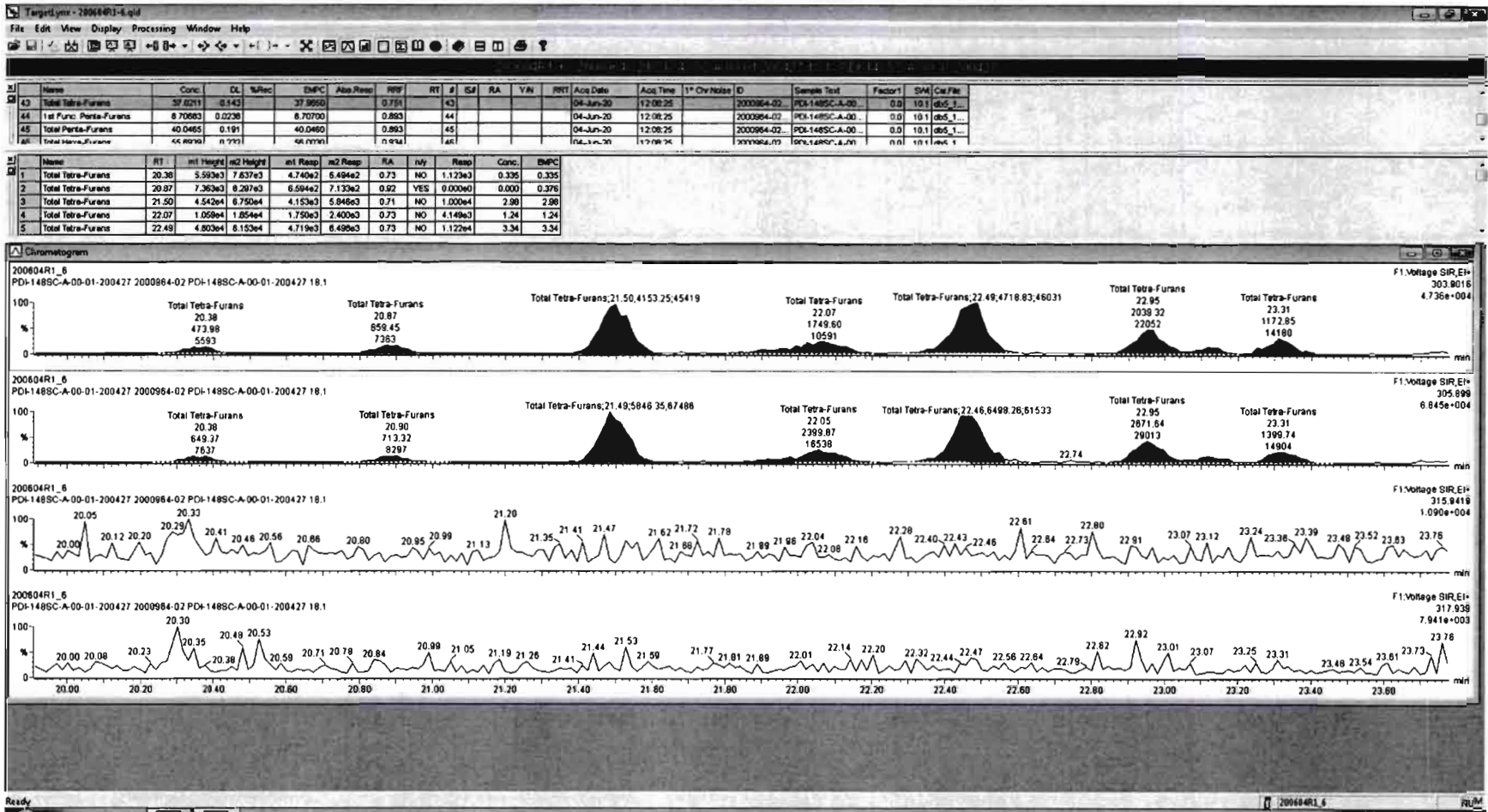




Name	Resp	RA	n/y	FWF	wt/nd	Prod RT	RT	IRT	Conc	%Inc	DL	EMPC
43 Total Tetra-Furans				0.7518	10.075	23.81			37.6		0.143	38.5
44 1st Func. Penta-Furans				0.8825	10.075	27.56			8.71		0.0236	8.71
45 Total Penta-Furans				0.8825	10.075	29.27			36.5		0.191	39.5
46 Total Hexa-Furans				0.9341	10.075	33.56			54.8		0.232	54.8
47 Total Hepta-Furans				0.8734	10.075	37.83			79.5		0.536	79.5
48 PFK1												
49 PFK2												

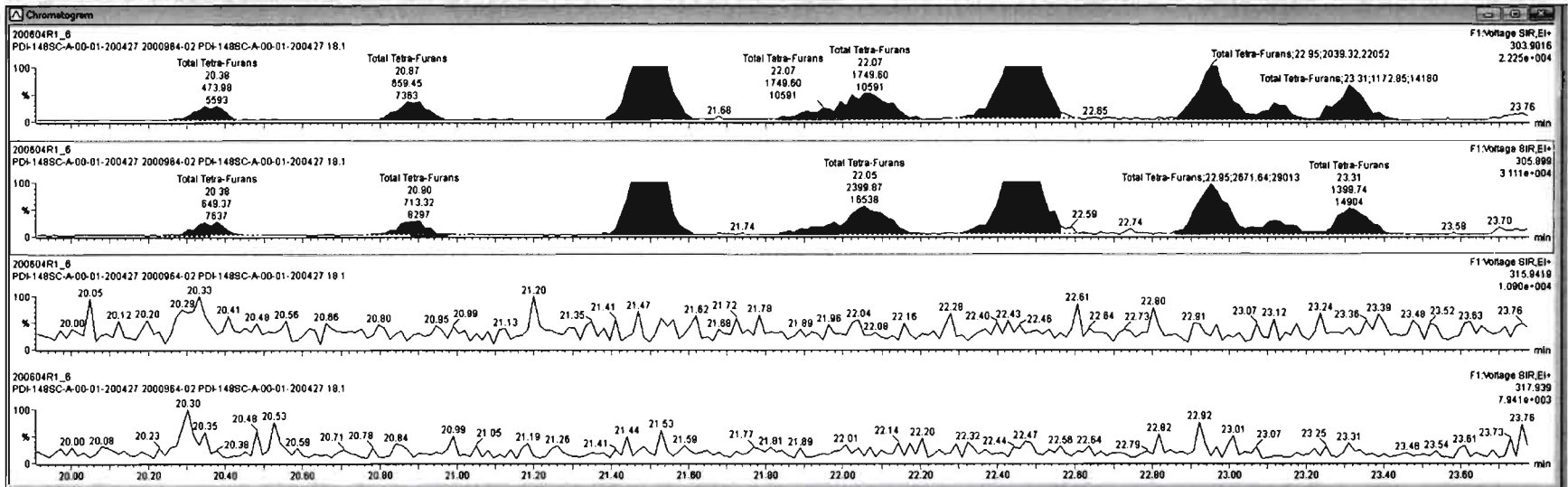
Name	RT	wt Resp	nd Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.38	4.740e2	6.494e2	0.73	NO	0.33470	0.33470
2 Total Tetra-Furans	20.87	6.594e2	7.133e2	0.92	YES	0.37618	0.00000
3 Total Tetra-Furans	21.50	4.153e3	5.846e3	0.71	NO	2.9790	2.9793
4 Total Tetra-Furans	22.07	1.750e3	2.400e3	0.73	NO	1.2363	1.2363
5 Total Tetra-Furans	22.48	4.719e3	6.496e3	0.73	NO	3.3421	3.3421
6 Total Tetra-Furans	22.85	2.039e3	2.872e3	0.78	NO	1.4038	1.4038
7 Total Tetra-Furans	23.12	4.794e2	7.214e2	0.86	NO	0.35775	0.35775
8 Total Tetra-Furans	23.31	1.173e3	1.400e3	0.84	NO	0.76649	0.76649

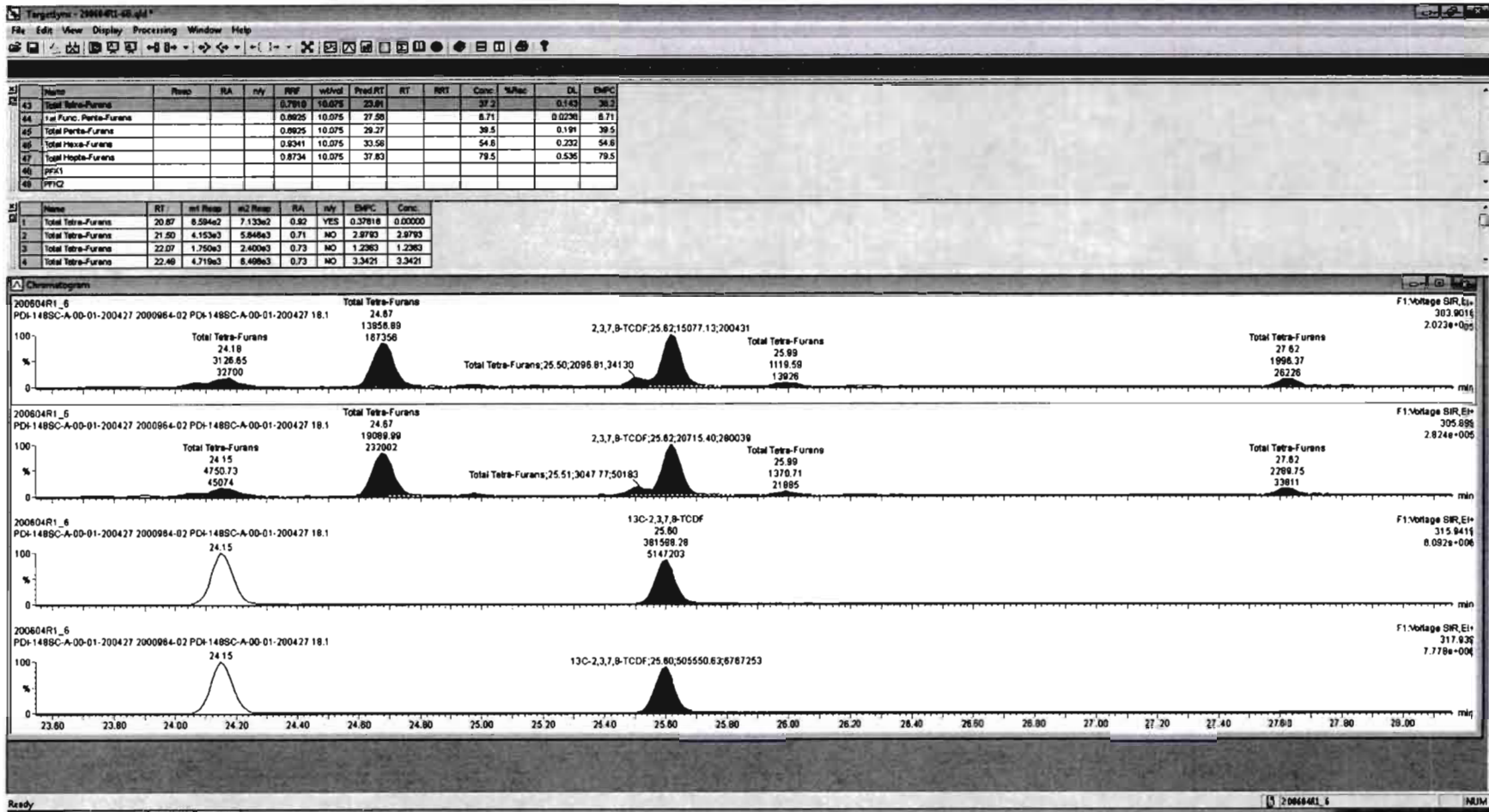




ID	Name	Conc.	OL	%Rec	EMPC	Area Resp	RRF	RT	#	ISF	RA	Y/N	RRT	Acq Date	Acq Time	1 <sup>st</sup> Chk Name	ID	Sample Text	Factor1	SM	Cal File
43	Total Tetra-Furans	37.0211	0.143		37.9950		0.751		43					04-Jun-20	12:08:25		2000984-02	PDH-148SC-A-00	0.0	10.1	855_1
44	1st Func. Penta-Furans	8.70583	0.0229		8.70700		0.893		44					04-Jun-20	12:08:25		2000984-02	PDH-148SC-A-00	0.0	10.1	855_1
45	Total Penta-Furans	40.0465	0.191		40.04650		0.893		45					04-Jun-20	12:08:25		2000984-02	PDH-148SC-A-00	0.0	10.1	855_1
46	Total Tetra-Furans	44.6090	0.177		44.60900		0.751		46					04-Jun-20	12:08:25		2000984-02	PDH-148SC-A-00	0.0	10.1	855_1

ID	Name	RT	ml Height	ml Height	ml Resp	m2 Resp	RA	July	Resp	Conc.	EMPC
1	Total Tetra-Furans	20.38	5.583e3	7.637e3	4.740e2	6.494e2	0.73	NO	1.123e3	0.335	0.335
2	Total Tetra-Furans	20.87	7.363e3	8.287e3	6.594e2	7.133e2	0.82	YES	0.000e0	0.000	0.376
3	Total Tetra-Furans	21.50	4.542e4	6.750e4	4.153e3	5.848e3	0.71	NO	1.000e4	2.98	2.98
4	Total Tetra-Furans	22.07	1.058e4	1.854e4	1.750e3	2.400e3	0.73	NO	4.148e3	1.24	1.24
5	Total Tetra-Furans	22.49	4.803e4	8.153e4	4.719e3	6.498e3	0.73	NO	1.122e4	3.34	3.34

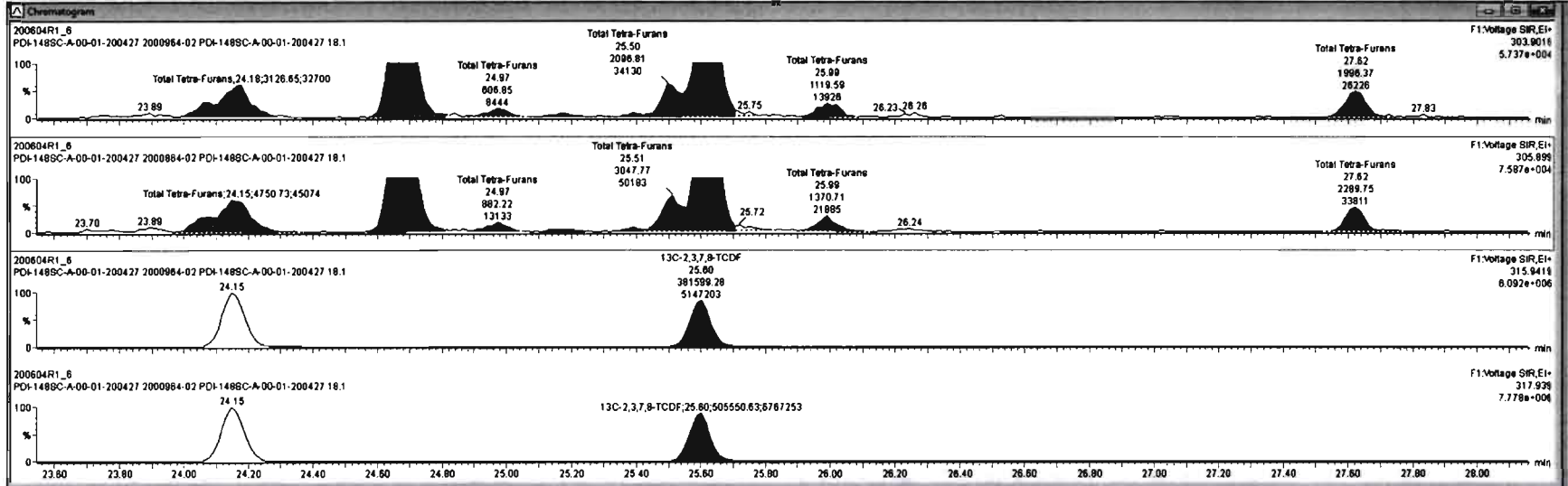






Name	Resp	RA	nly	RFI	wtAve	ProdRT	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7519	10.075	23.81			27.2		0.143	25.2
44 1st Func. Penta-Furans				0.8825	10.075	27.50			6.71		0.0296	6.71
45 Total Penta-Furans				0.8825	10.075	29.27			39.5		0.191	39.5
46 Total Hexa-Furans				0.8341	10.075	33.56			54.6		0.232	54.6
47 Total Hepta-Furans				0.8734	10.075	37.83			79.5		0.535	79.5
48 PFK1												
49 PFK2												

Name	RT	Int Resp	Int Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Furans	20.87	6.594e2	7.133e2	0.92	YES	0.37618	0.00000
2 Total Tetra-Furans	21.50	4.153e3	5.846e3	0.71	NO	2.9793	2.9793
3 Total Tetra-Furans	22.07	1.750e3	2.400e3	0.73	NO	1.2363	1.2363
4 Total Tetra-Furans	22.49	4.719e3	6.499e3	0.73	NO	3.3421	3.3421



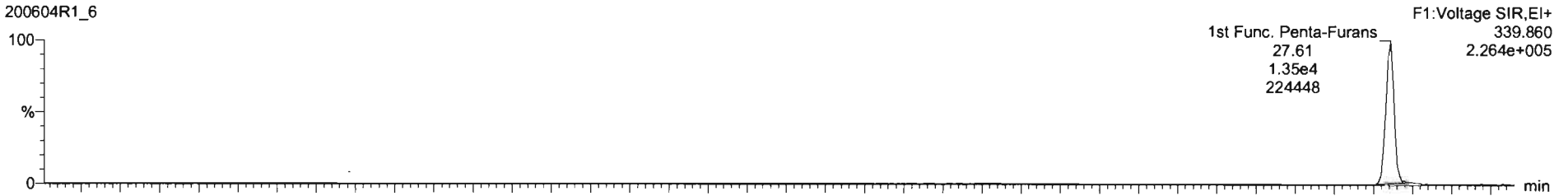
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Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

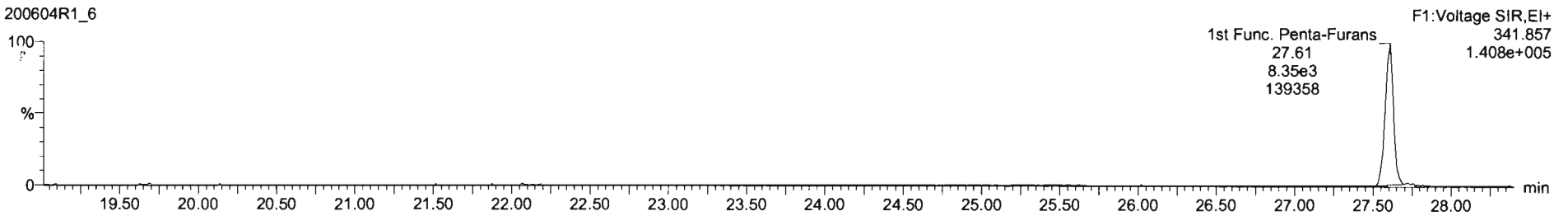
Name: 200604R1\_6, Date: 04-Jun-2020, Time: 12:08:25, ID: 2000964-02 PDI-148SC-A-00-01-200427 18.1, Description: PDI-148SC-A-00-01-200427

1st Func. Penta-Furans

200604R1\_6

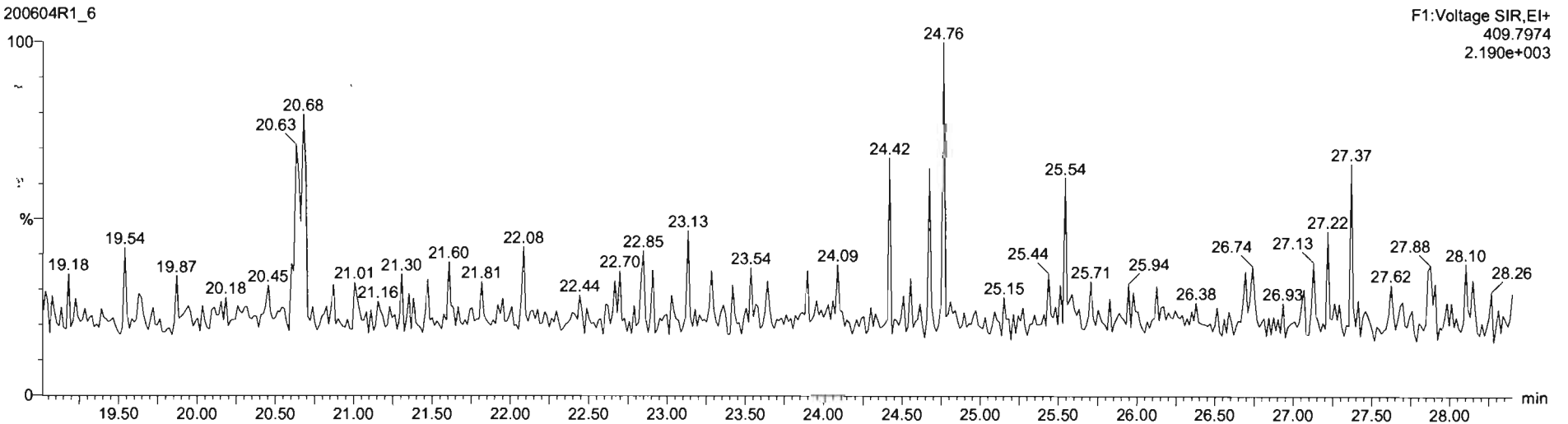


200604R1\_6



DPE6

200604R1\_6

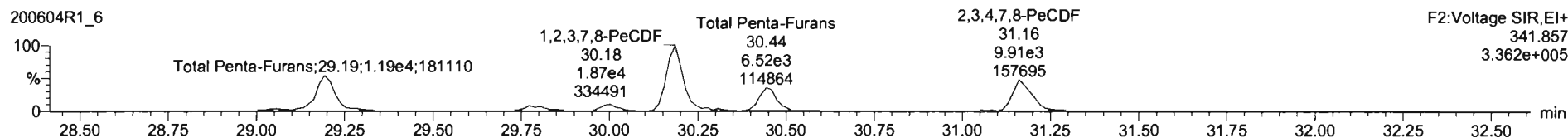
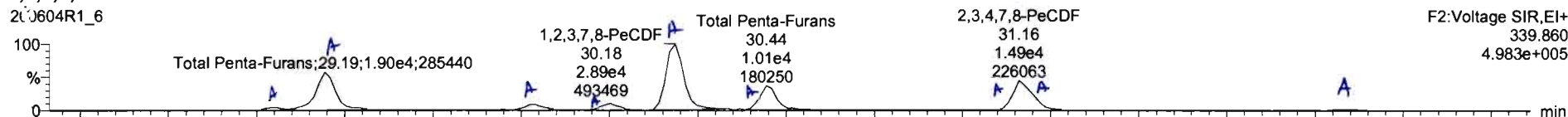


Dataset: Untitled

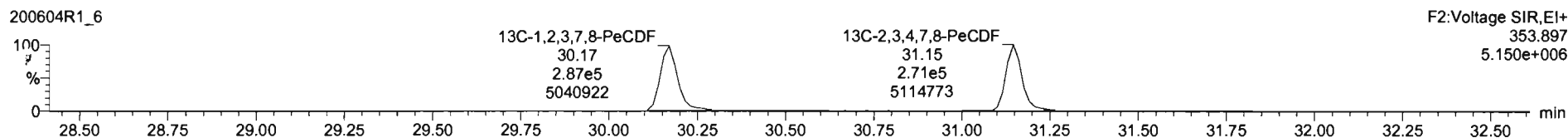
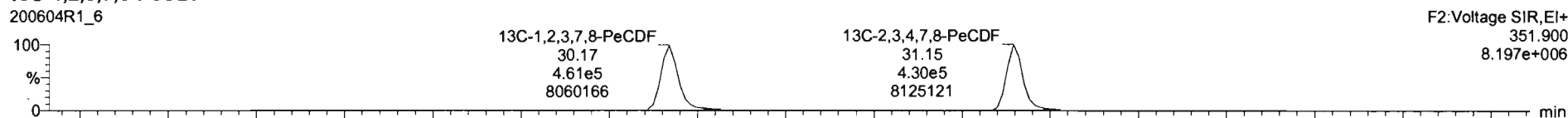
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_6, Date: 04-Jun-2020, Time: 12:08:25, ID: 2000964-02 PDI-148SC-A-00-01-200427 18.1, Description: PDI-148SC-A-00-01-200427

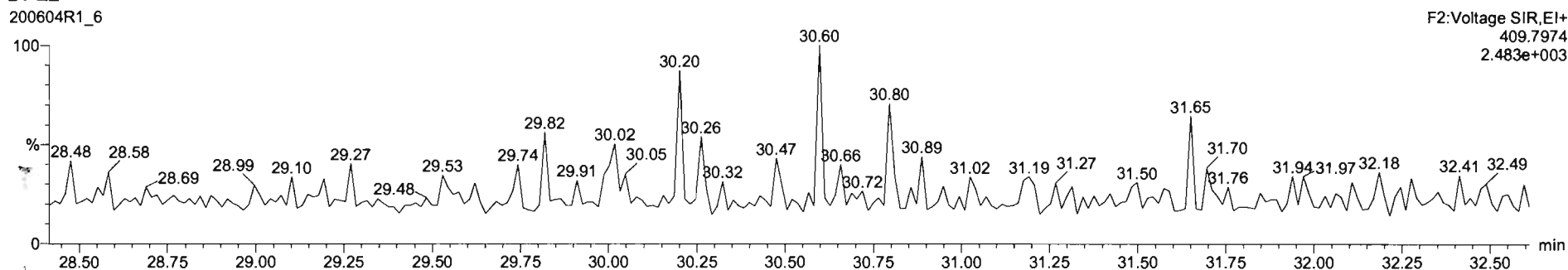
**1,2,3,7,8-PeCDF**



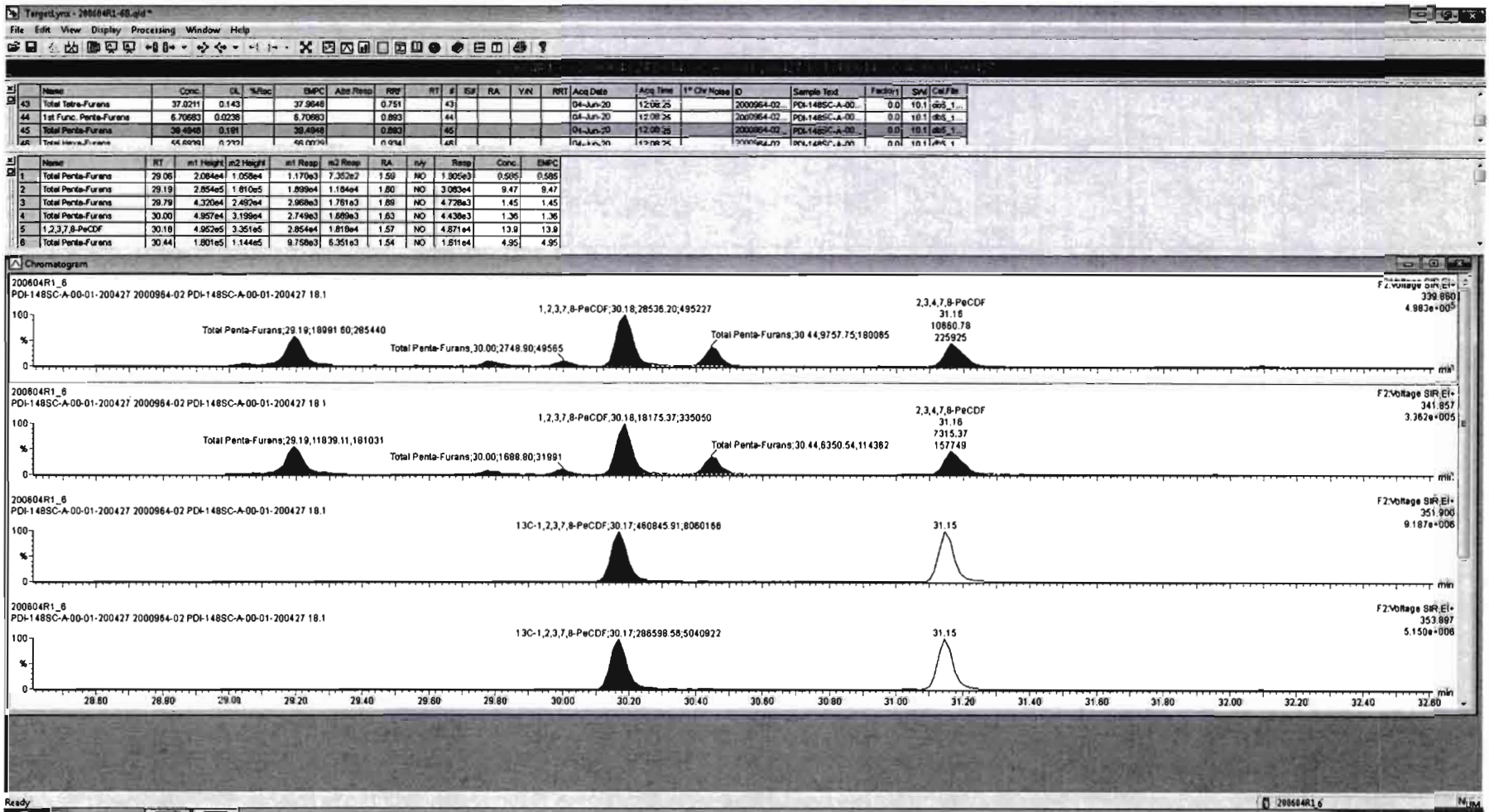
**13C-1,2,3,7,8-PeCDF**

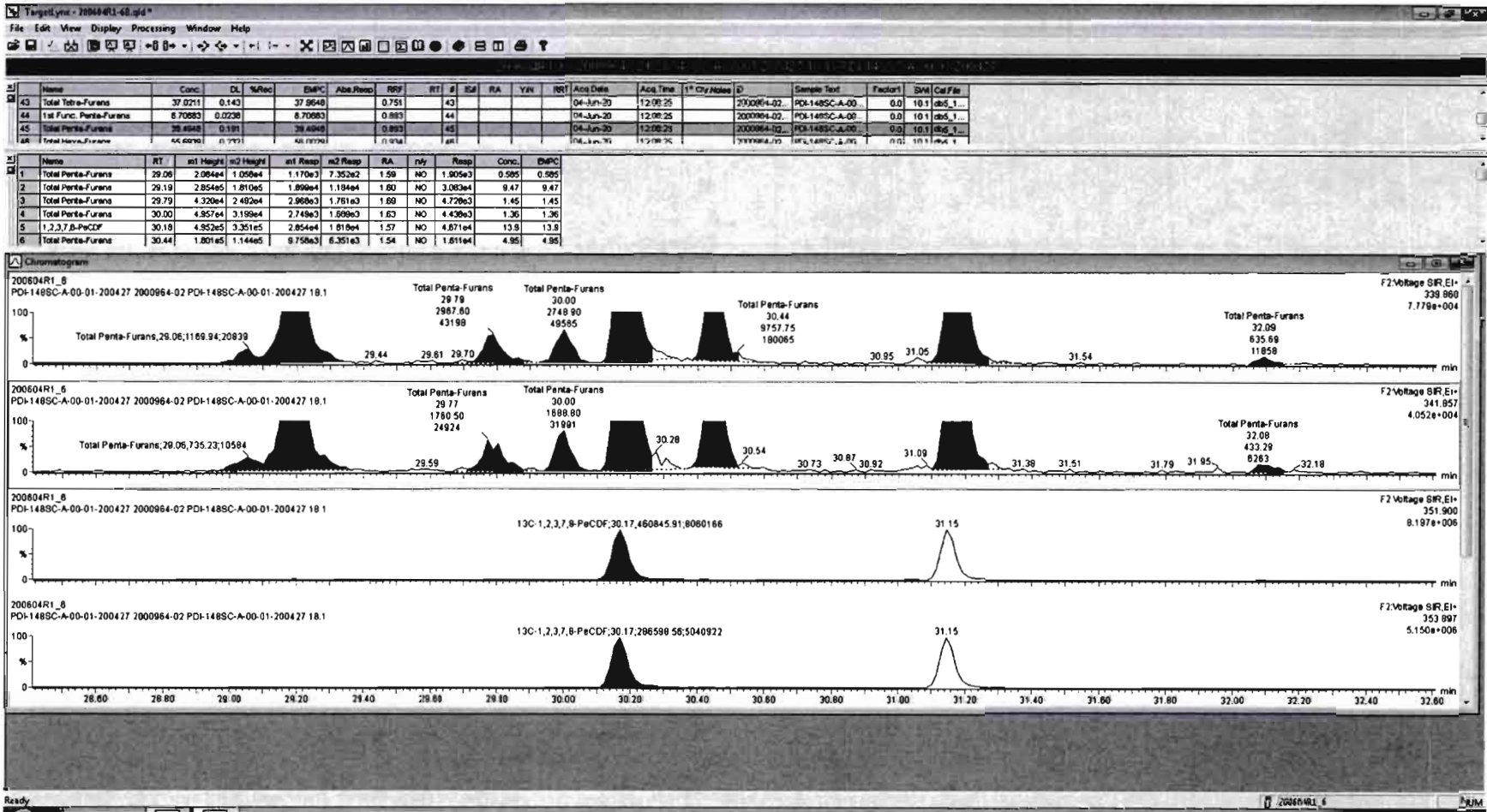


**DPE2**







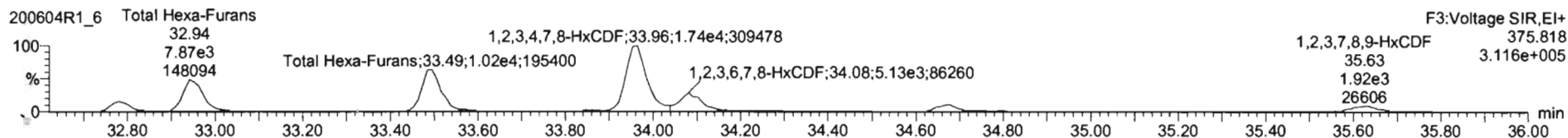
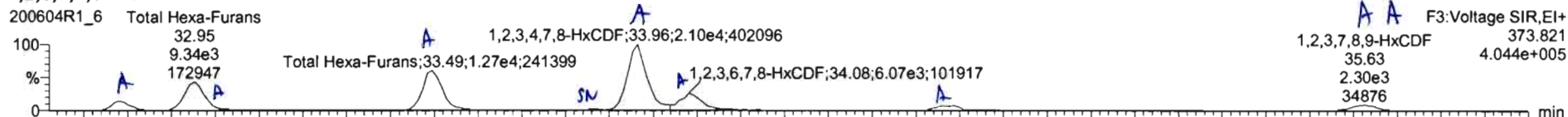


Dataset: Untitled

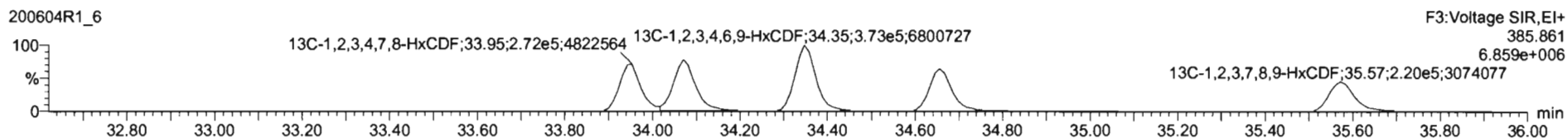
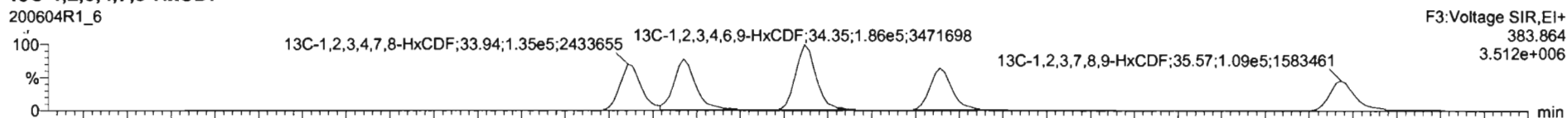
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_6, Date: 04-Jun-2020, Time: 12:08:25, ID: 2000964-02 PDI-148SC-A-00-01-200427 18.1, Description: PDI-148SC-A-00-01-200427

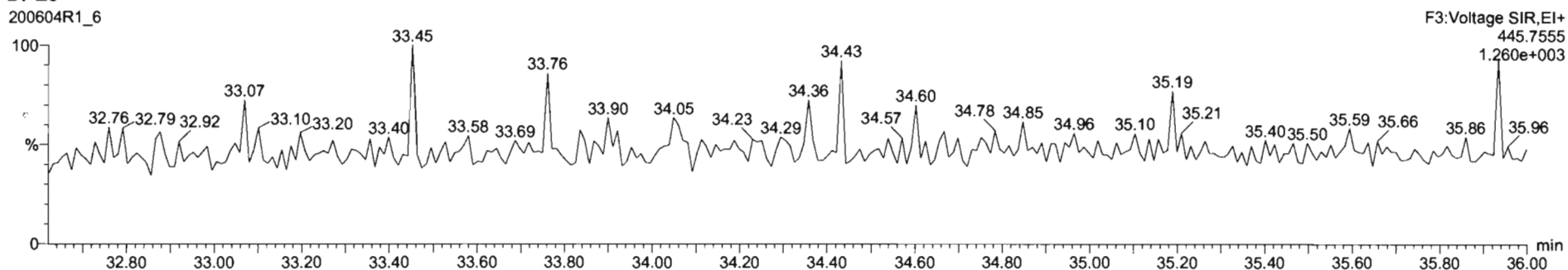
1,2,3,4,7,8-HxCDF

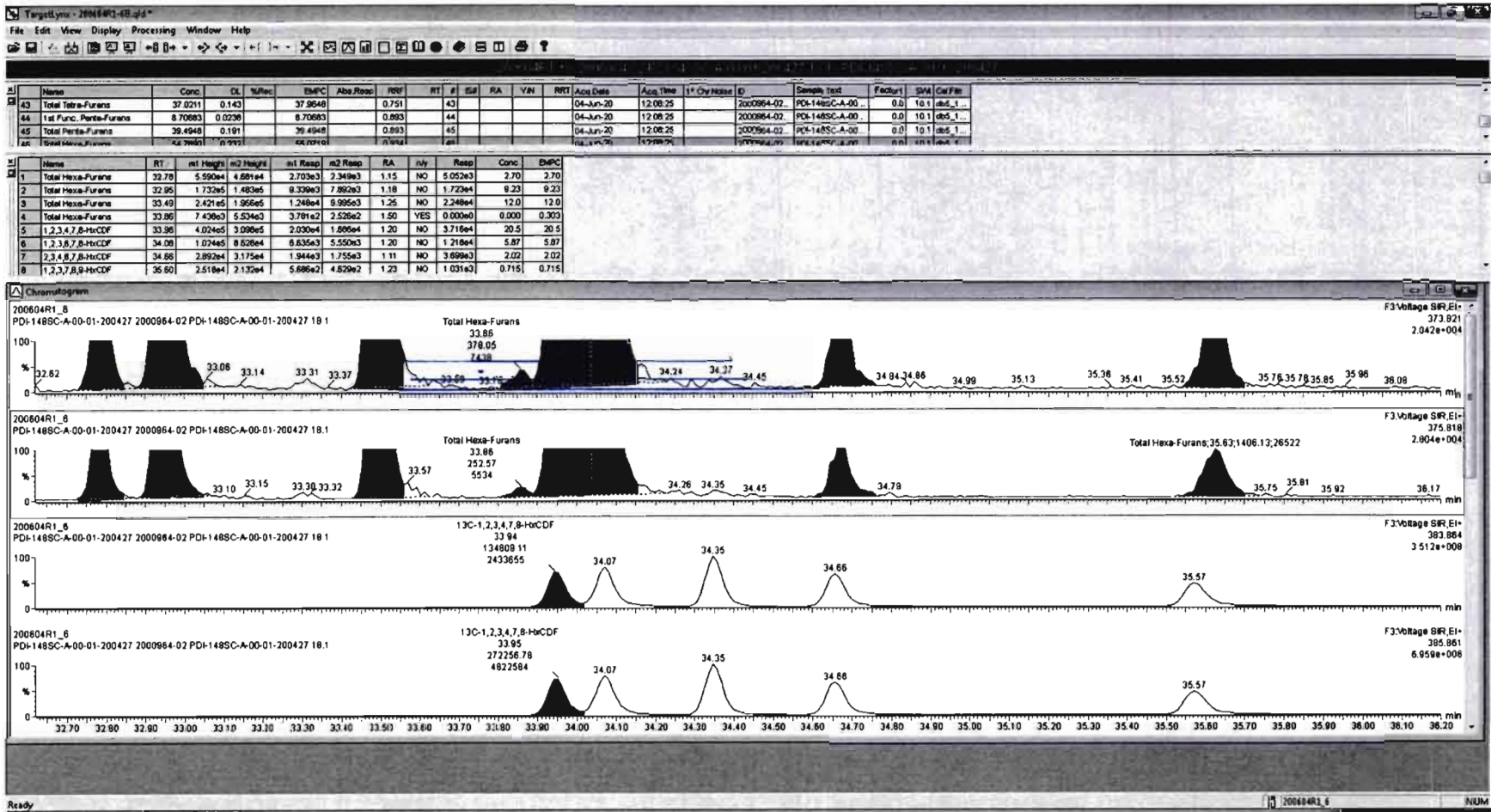


13C-1,2,3,4,7,8-HxCDF



DPE3



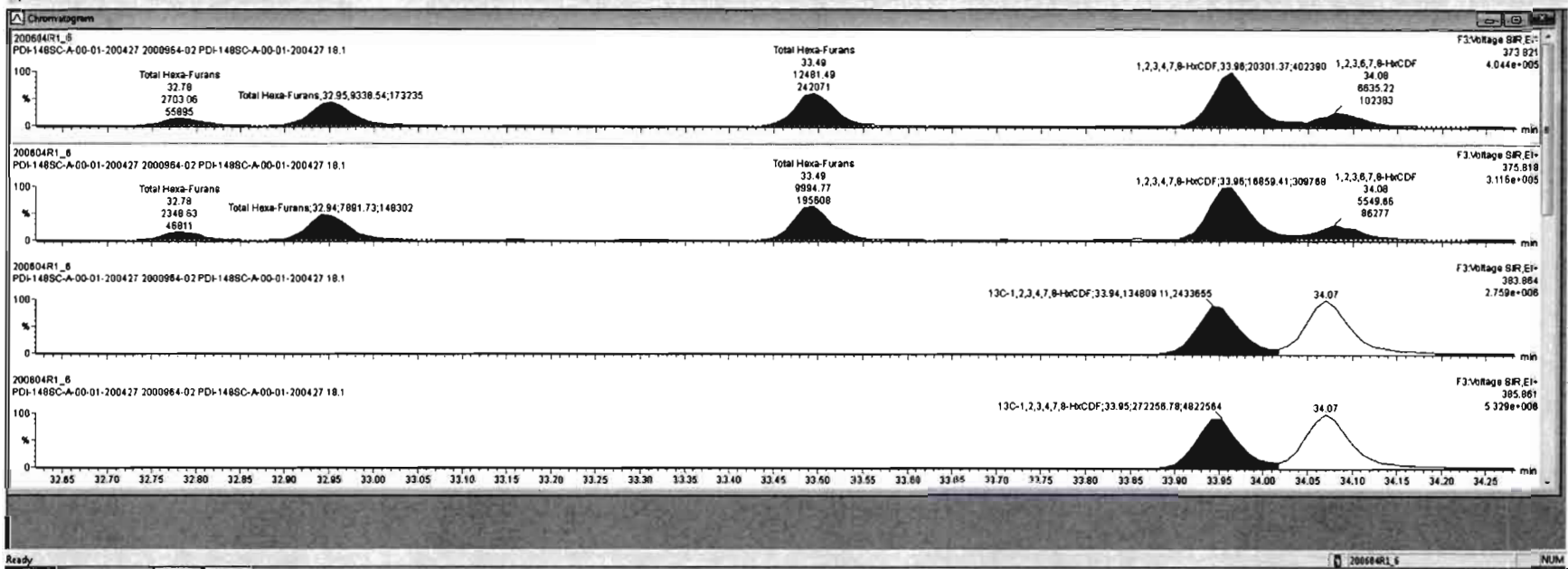




Targetlyn - 2000964-40.qtd  
 File Edit View Display Processing Window Help

SL	Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	ES	RA	Y/N	RR1	Acq Date	Acq Time	1 <sup>st</sup> ChyKide	ID	Sample Text	Factor1	SM	Cal File
43	Total Tetra-Furans	37.0211	0.143		37.8648		0.751	43						04-Jun-20	12:08:25		2000964-02	PDI-148SC-A-00	0.0	10.1	db5_1...
44	1st Func. Penta-Furans	8.70883	0.0228		8.70883		0.883	44						04-Jun-20	12:08:25		2000964-02	PDI-148SC-A-00	0.0	10.1	db5_1...
45	Total Penta-Furans	39.4948	0.191		39.4948		0.893	45						04-Jun-20	12:08:25		2000964-02	PDI-148SC-A-00	0.0	10.1	db5_1...

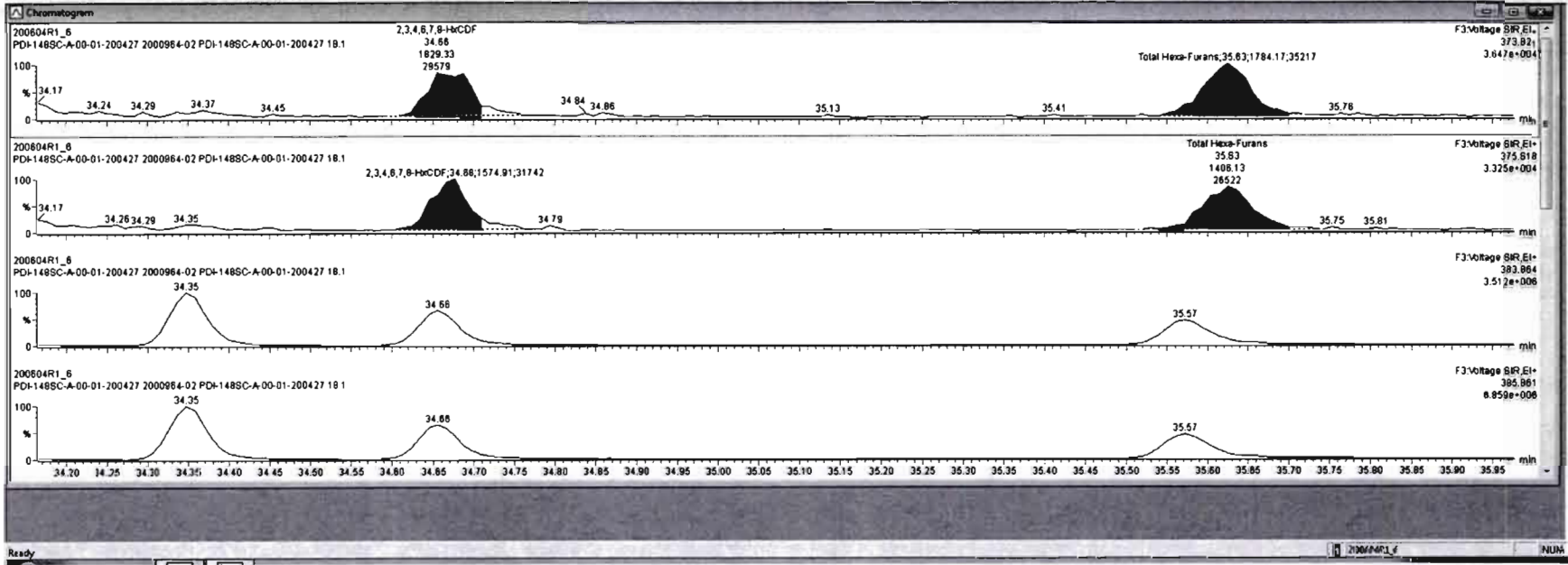
SL	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	nly	Resp	Conc.	EMPC
2	Total Hexa-Furans	32.95	1.732e5	1.463e5	9.339e3	7.892e3	1.16	NO	1.723e4	9.23	9.23
3	Total Hexa-Furans	33.49	2.421e5	1.856e5	1.248e4	9.995e3	1.25	NO	2.248e4	12.0	12.0
4	1,2,3,4,7,8-HxCDF	33.96	4.024e5	3.096e5	2.030e4	1.886e4	1.20	NO	3.716e4	20.5	20.5
5	1,2,3,6,7,8-HxCDF	34.08	1.024e5	8.828e4	6.635e3	5.550e3	1.20	NO	1.218e4	5.87	5.87
6	2,3,4,6,7,8-HxCDF	34.86	2.892e4	3.175e4	1.944e3	1.755e3	1.11	NO	3.899e3	2.02	2.02
7	1,2,3,7,8-HxCDF	35.60	2.518e4	2.132e4	5.686e2	4.879e2	1.23	NO	1.031e3	0.715	0.715
8	Total Hexa-Furans	35.83	3.522e4	2.852e4	1.784e3	1.406e3	1.27	NO	3.190e3	1.71	1.71



TargetLync - 2006041-60.qld  
 File Edit View Display Processing Window Help

Name	Conc.	DL	uMole	EMPC	Abn Resp	RT	RT #	SA	RA	Y/N	RT	Acq Date	Acq Time	1 <sup>st</sup> Ch Name	ID	Sample Text	Factor	Gain	Cal File
43	Total Toluene-Furans	37.0211	0.143	37.8948	0.751	43						04-Jun-20	12:08:25		2000964-02	PDI-1485C-A-00	0.0	10.1	db5_1
44	1st Furc. Penta-Furans	8.70880	0.0238	6.70953	0.893	44						04-Jun-20	12:08:25		2000964-02	PDI-1485C-A-00	0.0	10.1	db5_1
45	Total Penta-Furans	39.4948	0.191	39.4948	0.893	45						04-Jun-20	12:08:25		2000964-02	PDI-1485C-A-00	0.0	10.1	db5_1
46	Total Hexa-Furans	42.8776	0.191	42.8776	0.942	46						04-Jun-20	12:08:25		2000964-02	PDI-1485C-A-00	0.0	10.1	db5_1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	nly	Resp	Conc.	EMPC	
1	Total Hexa-Furans	32.78	5.580e4	4.881e4	2.703e3	2.349e3	1.15	NO	5.052e3	2.70	2.70
2	Total Hexa-Furans	32.95	1.732e5	1.483e5	9.339e3	7.887e3	1.18	NO	1.729e4	9.23	9.23
3	Total Hexa-Furans	33.48	2.421e5	1.956e5	1.248e4	9.995e3	1.25	NO	2.248e4	12.0	12.0
4	1,2,3,4,7,8-HxCDF	33.36	4.024e5	3.088e5	2.020e4	1.895e4	1.20	NO	3.715e4	20.5	20.5
5	1,2,3,6,7,8-HxCDF	34.08	1.024e5	8.026e4	6.835e3	5.550e3	1.20	NO	1.218e4	5.87	5.87
6	2,3,4,6,7,8-HxCDF	34.86	2.958e4	3.174e4	1.829e3	1.575e3	1.18	NO	3.484e3	1.86	1.86
7	1,2,3,7,8-HxCDF	35.80	2.518e4	2.132e4	5.886e2	4.829e2	1.23	NO	1.021e3	0.715	0.715
8	Total Hexa-Furans	35.83	3.522e4	2.852e4	1.784e3	1.406e3	1.27	NO	3.190e3	1.71	1.71

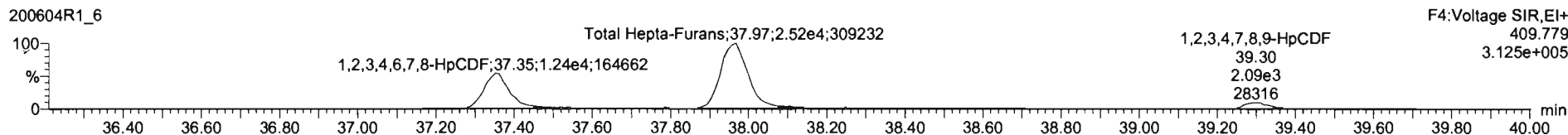
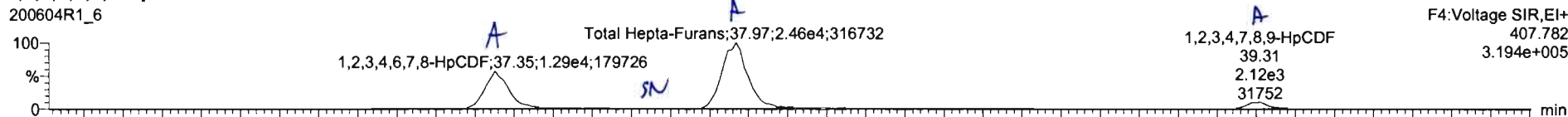


Dataset: Untitled

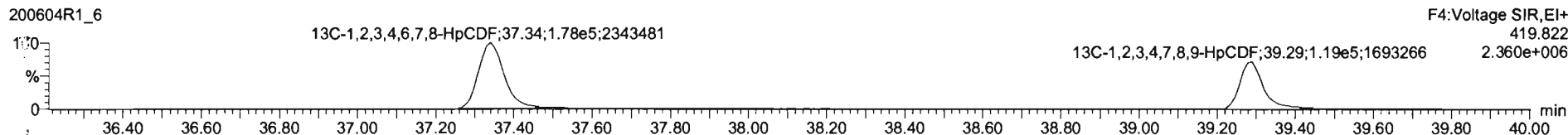
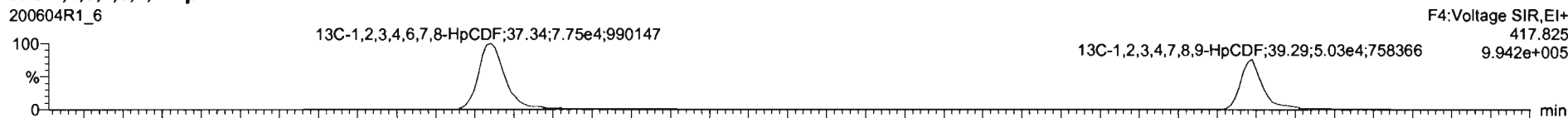
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_6, Date: 04-Jun-2020, Time: 12:08:25, ID: 2000964-02 PDI-148SC-A-00-01-200427 18.1, Description: PDI-148SC-A-00-01-200427

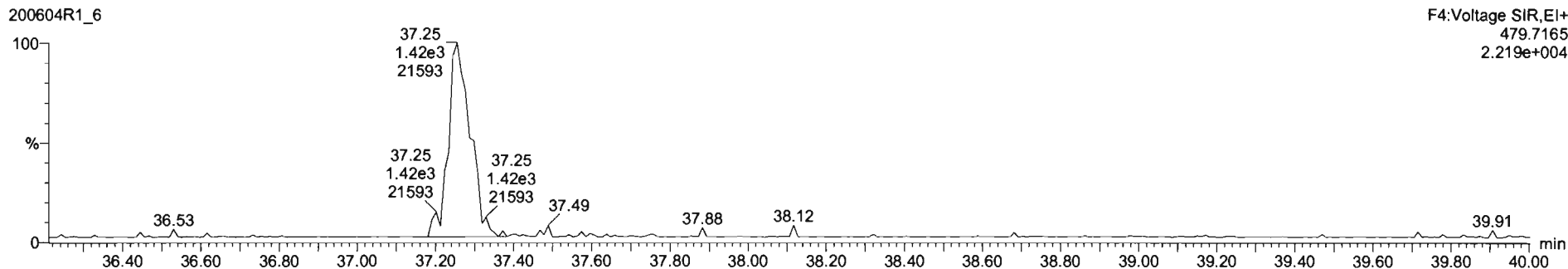
1,2,3,4,6,7,8-HpCDF



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



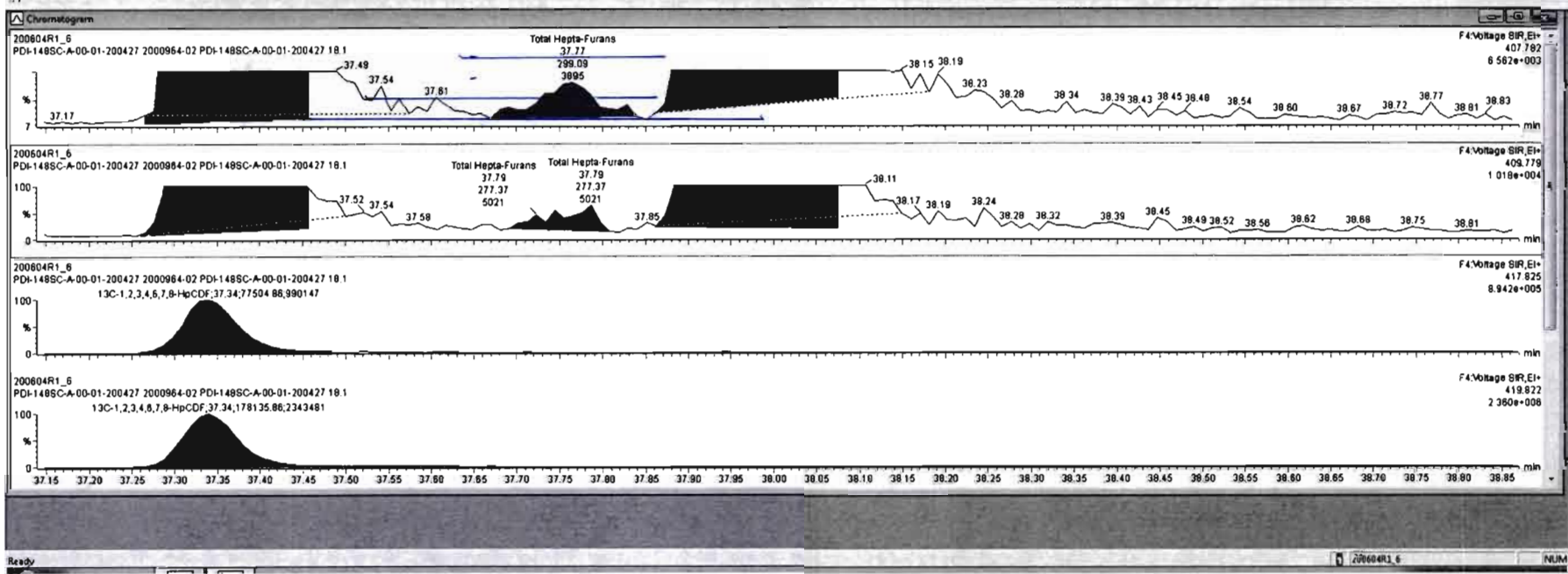
DPE4





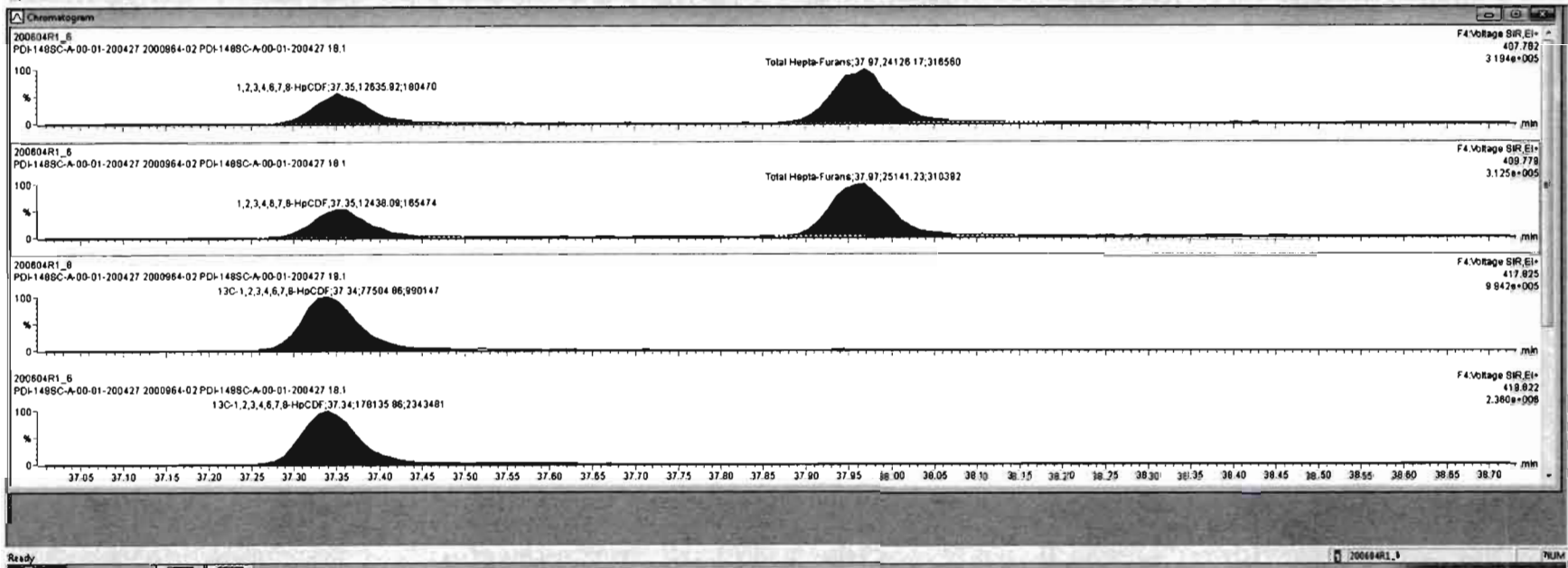
#	Name	Conc	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	Std	RA	Y/N	RRT	Acq Date	Acq Time	** Chr Name	ID	Sample Text	Factor1	SN	Cal File
47	Total Hepta-Furans	80.0893	0.535		80.0893		0.873		47					04-Jun-20	12:08:25		2000964-02	PDI-1485C-A-00...	0.0	10.1	abs_1...
48	PFK1								48										1		
49	PFK2								49										1		
49	PFK3								49										1		

#	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC
1	1,2,3,4,6,7,8-HpCDF	37.35	1.805e5	1.655e5	1.264e4	1.244e4	1.02	NO	2.507e4	22.3	22.3
2	Total Hepta-Furans	37.77	3.885e3	5.021e3	2.981e2	2.774e2	1.08	NO	5.765e2	0.616	0.616
3	Total Hepta-Furans	37.87	3.168e5	3.104e5	2.413e4	2.514e4	0.96	NO	4.927e4	52.6	52.6
4	1,2,3,4,7,8,9-HpCDF	38.31	3.207e4	2.847e4	1.997e3	1.939e3	1.03	NO	3.936e3	4.54	4.54



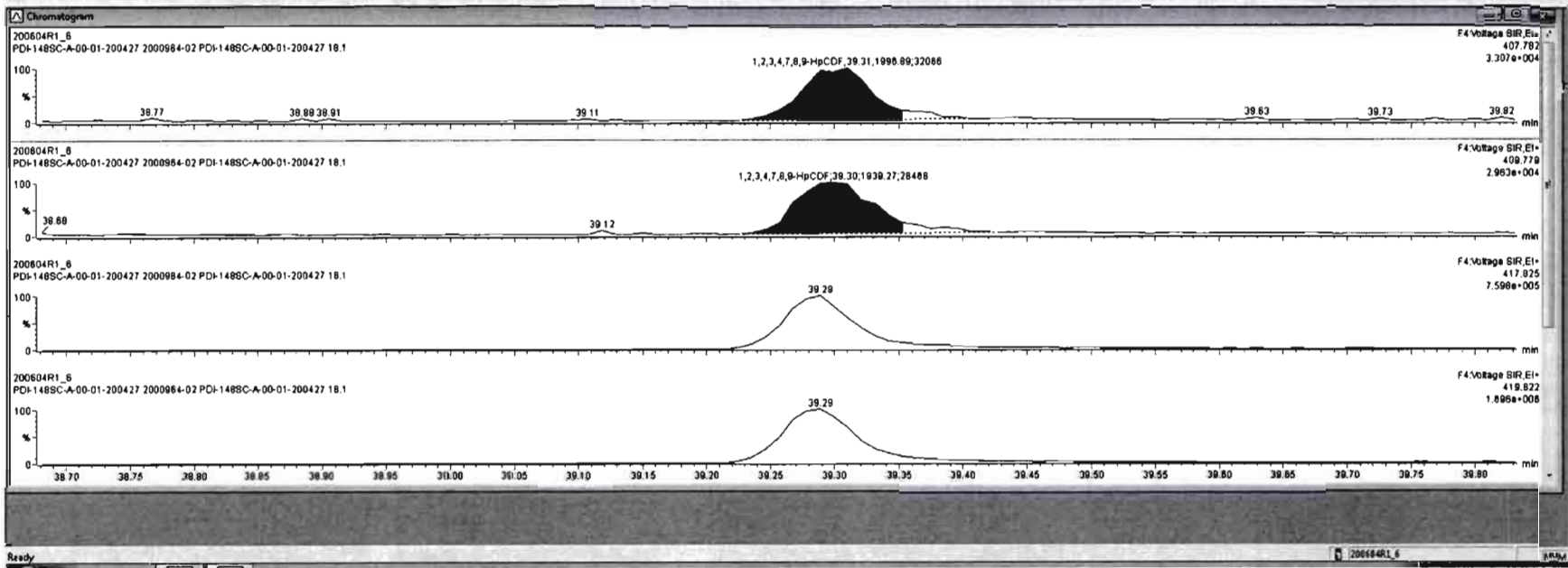
SL	Name	Conc.	CL	%Rec	EMPC	Abs Res	R/R	RT	#	EA	RA	Y/N	RRT	Acq Date	Acq Time	1 <sup>st</sup> Cr Note	ID	Sample Text	Factor1	SM	Cal File	
47	Total Hepta-Furans	79.4734	0.525		79.4734		0.875		47					04-Jun-25	12:08:25		2000964-02	PEI-148SC-A-00	0.0	10.1	db5_1...	
48	PFK1								48													
49	PFK2								49													
50	PFK3								50													

SL	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1	1,2,3,4,6,7,8-HpCDF	37.35	1.805e5	1.855e5	1.264e4	1.244e4	1.02	NO	2.507e4	22.3	22.3
2	Total Hepta-Furans	37.97	3.168e5	3.104e5	2.413e4	2.514e4	0.96	NO	4.927e4	52.8	52.8
3	1,2,3,4,7,8,9-HpCDF	39.31	3.207e4	2.847e4	1.997e3	1.939e3	1.03	NO	3.936e3	4.54	4.54



#	Name	Conc	DL	%Proc	EMPC	Area Resp	RNF	RT	#	ESF	RA	YIN	RRF	Acq Date	Acq Time	1 <sup>st</sup> Op Name	ID	Sample Text	Factor1	DM	Cal File	
47	Total Hepta-Furans	79.4734	0.535		79.4734		0.873	47						09-25-20	12:09:25		2002864-02	PCS-148SC-A-00...	0.0	181	lab_1...	
48	PFK1							48														
49	PFK2							49														
49	PFK3							49														
49	PFK4							49														

#	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	rvy	Resp	Conc	EMPC
1	1,2,3,4,6,7,8-HpCDF	37.35	1.805e5	1.855e5	1.264e4	1.244e4	1.02	NO	2.507e4	22.3	22.3
2	Total Hepta-Furans	37.97	3.168e5	3.104e5	2.413e4	2.514e4	0.96	NO	4.827e4	52.8	52.8
3	1,2,3,4,7,8,9-HpCDF	39.31	3.207e4	2.847e4	1.907e3	1.939e3	1.03	NO	3.936e3	4.54	4.54

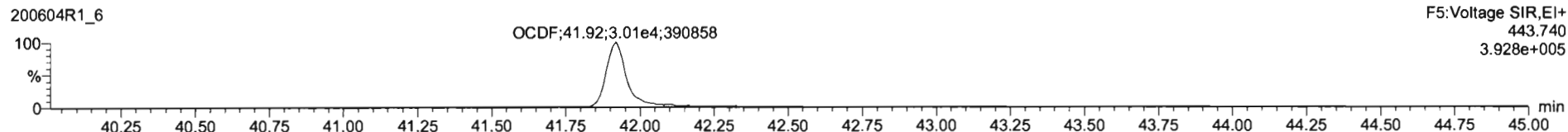
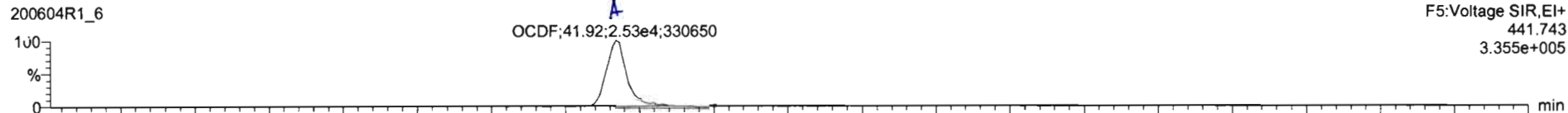


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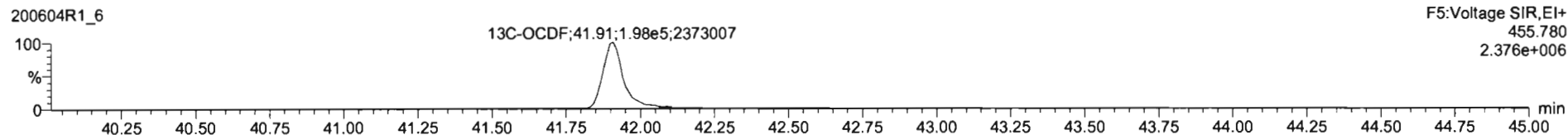
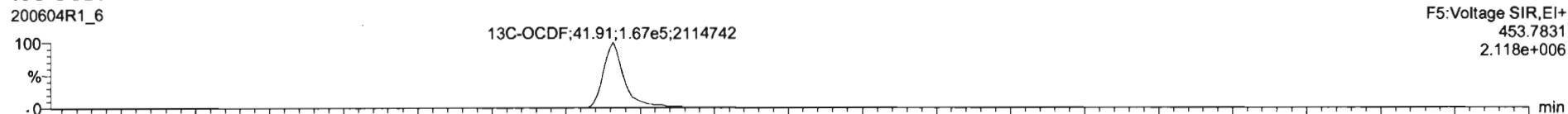
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_6, Date: 04-Jun-2020, Time: 12:08:25, ID: 2000964-02 PDI-148SC-A-00-01-200427 18.1, Description: PDI-148SC-A-00-01-200427

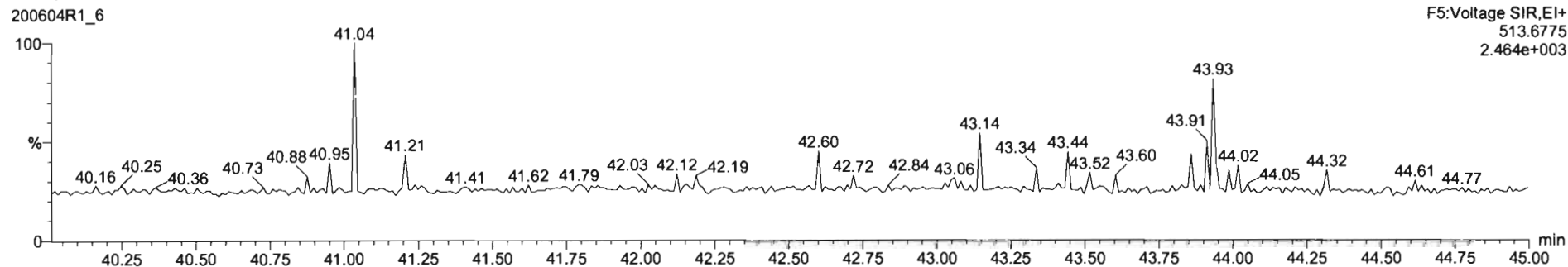
**OCDF**



**13C-OCDF**



**DPE5**

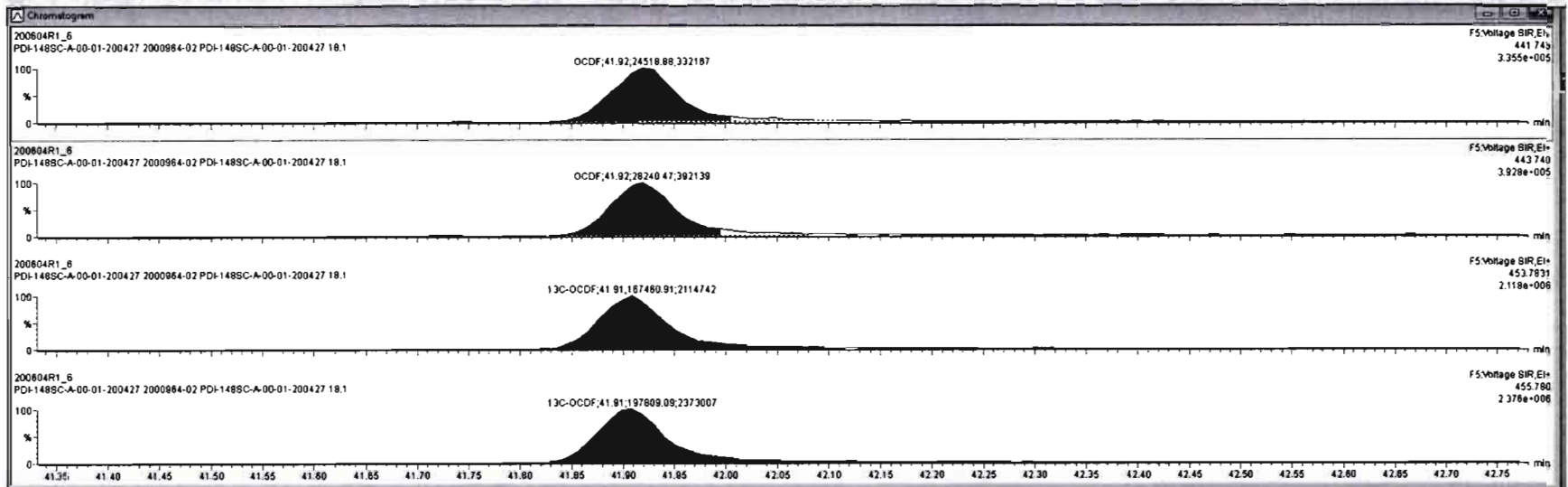




Targetlyn - 200604R1-6D.qtd  
 File Edit View Display Processing Window Help

Name	Conc	DL	%Rec	EMPC	Area Resp	RT	RT	RT	RT	RA	VAI	RTT	Acq Data	Acq Time	1 <sup>st</sup> Or Ndx	D	Sample Test	Factor	DM	Cl File
OCDF	71.1030	0.595		71.1030	5.275e4	0.806	41.92	17	24	0.808	NO	1.000	04-Jun-20	12:08:25	328.820	2000964-02	PDI-148SC-A-00	0.0	10.1	db5_1
13C-2,3,7,8-TCDD	182.895	0.232	87.0		7.240e5	1.156	28.48	18	38	0.808	NO	1.025	04-Jun-20	12:08:25	2248.059	2000964-02	PDI-148SC-A-00	0.0	10.1	db5_1
13C-1,2,3,7,8-PeCDD	148.872	0.307	74.9		4.387e5	0.849	31.45	19	36	0.827	NO	1.217	04-Jun-20	12:08:25	3768.824	2000964-02	PDI-148SC-A-00	0.0	10.1	db5_1
13C-1,2,3,7,8-PeCDF	137.861	0.424	89.4		3.028e4	0.770	34.87	20	38	1.264	NO	1.014	04-Jun-20	12:08:25	2018.961	2000964-02	PDI-148SC-A-00	0.0	10.1	db5_1

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



Ready 200604R1\_6

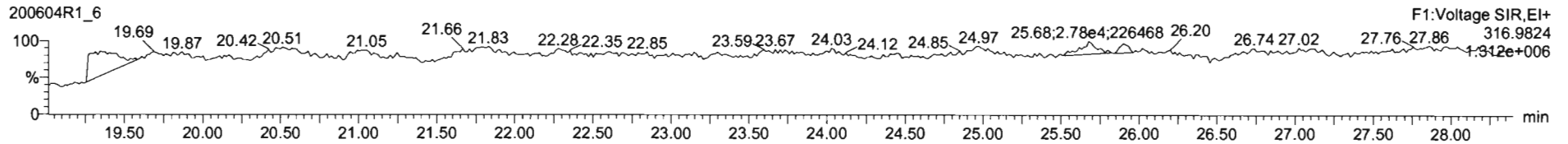
Dataset: Untitled

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

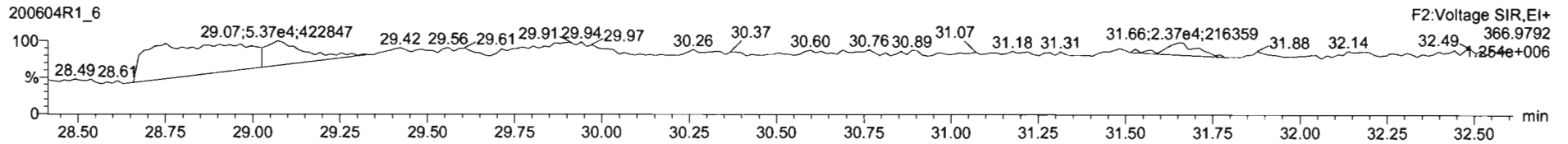
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_6, Date: 04-Jun-2020, Time: 12:08:25, ID: 2000964-02 PDI-148SC-A-00-01-200427 18.1, Description: PDI-148SC-A-00-01-200427

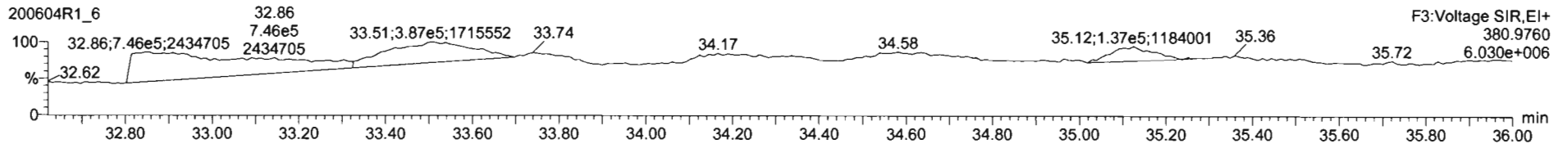
**PFK1**



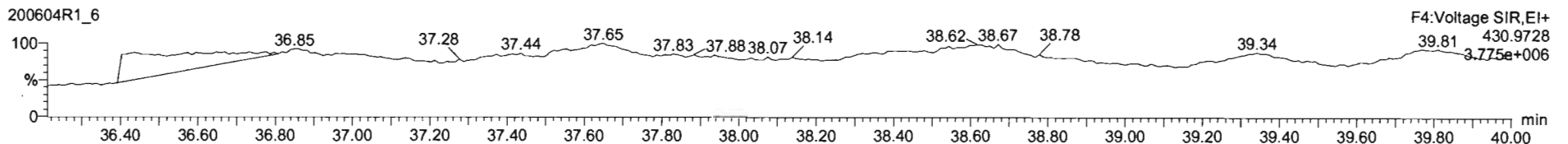
**PFK2**



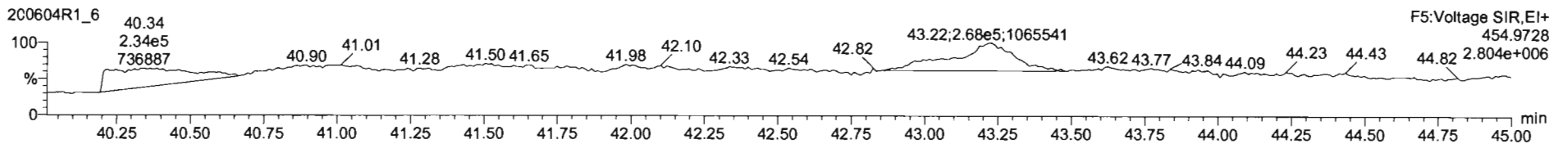
**PFK3**



**PFK4**



**PFK5**



Dataset: U:\VG12.PRO\Results\200604R1\200604R1-7B.qld

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HN 07/08/2020

C7 07/16/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1\_7, Date: 04-Jun-2020, Time: 12:54:39, ID: 2000964-03 PDI-148SC-A-01-02-200427 12.76, Description: PDI-148SC-A-01-02-200427

#	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	1.21e3	0.59	YES	0.888	10.041	26.531	26.54	1.001	1.002	0.39952		0.112	0.339
2	2 1,2,3,7,8-PeCDD	1.21e3	1.00	YES	0.908	10.041	31.488	31.47	1.001	1.000	0.55609		0.266	0.454
3	3 1,2,3,4,7,8-HxCDD	1.08e3	1.06	NO	1.03	10.041	34.846	34.86	1.000	1.001	0.65510		0.219	0.655
4	4 1,2,3,6,7,8-HxCDD	7.87e3	1.28	NO	0.892	10.041	34.943	34.95	1.000	1.000	4.4743		0.236	4.47
5	5 1,2,3,7,8,9-HxCDD	2.75e3	1.18	NO	0.887	10.041	35.231	35.24	1.000	1.001	1.8577		0.288	1.86
6	6 1,2,3,4,6,7,8-HpCDD	1.03e5	1.02	NO	0.864	10.041	38.768	38.77	1.000	1.000	100.02		0.887	100
7	7 OCDD	7.80e5	0.88	NO	0.914	10.041	41.727	41.74	1.000	1.000	934.35		0.613	934
8	8 2,3,7,8-TCDF	6.72e4	0.77	NO	0.751	10.041	25.641	25.63	1.001	1.001	21.244 (10.6)		0.147	21.2
9	9 1,2,3,7,8-PeCDF	7.98e4	1.55	NO	0.893	10.041	30.205	30.20	1.001	1.000	24.927		0.274	24.9
10	10 2,3,4,7,8-PeCDF	1.10e4	1.63	NO	0.935	10.041	31.192	31.21	1.001	1.001	3.4957		0.261	3.50
11	11 1,2,3,4,7,8-HxCDF	7.73e4	1.20	NO	0.884	10.041	33.963	33.97	1.000	1.000	44.016		0.335	44.0
12	12 1,2,3,6,7,8-HxCDF	2.53e4	1.30	NO	0.889	10.041	34.090	34.10	1.000	1.001	12.254		0.297	12.3
13	13 2,3,4,6,7,8-HxCDF	6.81e3	1.27	NO	0.934	10.041	34.701	34.69	1.001	1.001	3.6782		0.342	3.68
14	14 1,2,3,7,8,9-HxCDF	2.59e3	1.26	NO	0.871	10.041	35.582	35.62	1.000	1.001	1.7876		0.507	1.79
15	15 1,2,3,4,6,7,8-HpCDF	3.07e4	0.97	NO	0.873	10.041	37.387	37.36	1.001	1.000	25.909		0.371	25.9
16	16 1,2,3,4,7,8,9-HpCDF	7.07e3	0.91	NO	1.01	10.041	39.299	39.31	1.000	1.000	7.7027		0.412	7.70
17	17 OCDF	4.19e4	0.84	NO	0.806	10.041	41.919	41.93	1.000	1.000	49.657		0.394	49.7
18	18 13C-2,3,7,8-TCDD	6.77e5	0.77	NO	1.16	10.041	26.522	26.50	1.026	1.026	160.81	80.7	0.268	
19	19 13C-1,2,3,7,8-PeCDD	4.76e5	0.64	NO	0.849	10.041	31.711	31.47	1.227	1.218	153.85	77.2	0.362	
20	20 13C-1,2,3,4,7,8-HxCDD	3.17e5	1.27	NO	0.779	10.041	34.841	34.84	1.014	1.014	151.57	76.1	0.557	
21	21 13C-1,2,3,6,7,8-HxCDD	3.93e5	1.28	NO	1.02	10.041	34.955	34.94	1.017	1.017	143.71	72.2	0.427	
22	22 13C-1,2,3,7,8,9-HxCDD	3.32e5	1.22	NO	0.903	10.041	35.226	35.22	1.025	1.025	136.85	68.7	0.481	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.38e5	1.06	NO	0.689	10.041	38.751	38.76	1.128	1.128	128.53	64.5	0.479	
24	24 13C-OCDD	3.64e5	0.95	NO	0.652	10.041	41.775	41.73	1.216	1.215	207.54	52.1	0.584	
25	25 13C-2,3,7,8-TCDF	8.39e5	0.77	NO	1.06	10.041	25.564	25.61	0.989	0.991	145.89	73.2	0.341	
26	26 13C-1,2,3,7,8-PeCDF	7.14e5	1.60	NO	0.838	10.041	30.093	30.18	1.165	1.168	156.97	78.8	0.491	
27	27 13C-2,3,4,7,8-PeCDF	6.72e5	1.62	NO	0.817	10.041	31.047	31.16	1.202	1.206	151.53	76.1	0.504	
28	28 13C-1,2,3,4,7,8-HxCDF	3.95e5	0.51	NO	1.01	10.041	33.972	33.96	0.989	0.989	145.93	73.3	0.579	
29	29 13C-1,2,3,6,7,8-HxCDF	4.62e5	0.51	NO	1.17	10.041	34.096	34.08	0.992	0.992	147.25	73.9	0.500	
30	30 13C-2,3,4,6,7,8-HxCDF	3.95e5	0.52	NO	1.02	10.041	34.670	34.67	1.009	1.009	143.73	72.2	0.571	
31	31 13C-1,2,3,7,8,9-HxCDF	3.32e5	0.50	NO	0.860	10.041	35.570	35.58	1.035	1.036	143.67	72.1	0.678	



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Name: 200604R1\_7, Date: 04-Jun-2020, Time: 12:54:39, ID: 2000964-03 PDI-148SC-A-01-02-200427 12.76, Description: PDI-148SC-A-01-02-200427

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.70e5	0.44	NO	0.774	10.041	37.319	37.35	1.086	1.087	129.78	65.2	0.597	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.80e5	0.42	NO	0.521	10.041	39.349	39.30	1.145	1.144	128.80	64.7	0.888	
34	34 13C-OCDF	4.16e5	0.90	NO	0.746	10.041	41.946	41.92	1.221	1.220	207.76	52.2	0.520	
35	35 37Cl-2,3,7,8-TCDD	3.04e5			1.04	10.041	26.553	26.53	1.028	1.027	80.488	101	0.131	
36	36 13C-1,2,3,4-TCDD	7.25e5	0.79	NO	1.00	10.041	25.890	25.84	1.000	1.000	199.18	100	0.310	
37	37 13C-1,2,3,4-TCDF	1.08e6	0.77	NO	1.00	10.041	24.360	24.16	1.000	1.000	199.18	100	0.361	
38	38 13C-1,2,3,4,6,9-HxCDF	5.35e5	0.51	NO	1.00	10.041	34.420	34.36	1.000	1.000	199.18	100	0.583	
39	39 Total Tetra-Dioxins				0.888	10.041	24.620		0.000		1.5662		0.112	3.11
40	40 Total Penta-Dioxins				0.908	10.041	29.960		0.000		3.3000		0.286	5.21
41	41 Total Hexa-Dioxins				0.892	10.041	33.635		0.000		40.765		0.257	40.8
42	42 Total Hepta-Dioxins				0.864	10.041	37.640		0.000		215.88		0.887	216
43	43 Total Tetra-Furans				0.751	10.041	23.610		0.000		59.405		0.147	60.1
44	44 1st Func. Penta-Furans				0.893	10.041	27.580		0.000		7.9820		0.0411	7.98
45	45 Total Penta-Furans				0.893	10.041	29.275		0.000		71.284		0.274	71.3
46	46 Total Hexa-Furans				0.934	10.041	33.555		0.000		89.130		0.346	89.1
47	47 Total Hepta-Furans				0.873	10.041	37.835		0.000		70.132		0.414	70.1

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

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1\_7, Date: 04-Jun-2020, Time: 12:54:39, ID: 2000964-03 PDI-148SC-A-01-02-200427 12.76, Description: PDI-148SC-A-01-02-200427

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.50	1.544e4	2.036e4	1.418e3	1.765e3	0.80	NO	3.182e3	1.0538	1.0538	0.112
2	Total Tetra-Dioxins	22.95	3.962e3	5.893e3	4.005e2	4.944e2	0.81	NO	8.948e2	0.29630	0.29630	0.112
3	Total Tetra-Dioxins	23.43	2.897e3	4.860e3	2.491e2	3.979e2	0.63	YES	0.000e0	0.00000	0.18964	0.112
4	Total Tetra-Dioxins	24.33	3.922e3	5.531e3	2.922e2	3.604e2	0.81	NO	6.526e2	0.21609	0.21609	0.112
5	Total Tetra-Dioxins	24.60	2.646e3	3.332e3	1.250e2	1.591e2	0.79	NO	0.000e0	0.00000	0.094077	0.112
6	Total Tetra-Dioxins	24.78	4.661e3	6.548e3	3.616e2	4.278e2	0.85	NO	0.000e0	0.00000	0.26140	0.112
7	Total Tetra-Dioxins	25.30	1.925e3	3.784e3	1.456e2	2.092e2	0.70	NO	0.000e0	0.00000	0.11748	0.112
8	Total Tetra-Dioxins	25.84	2.184e3	3.866e3	8.854e1	1.559e2	0.57	YES	0.000e0	0.00000	0.067396	0.112
9	Total Tetra-Dioxins	26.26	8.503e3	1.394e4	6.278e2	9.642e2	0.65	YES	0.000e0	0.00000	0.47783	0.112
10	2,3,7,8-TCDD	26.54	6.552e3	1.480e4	4.460e2	7.606e2	0.59	YES	1.207e3	0.00000	0.33947	0.112

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.27	1.763e4	2.847e4	1.238e3	2.265e3	0.55	NO	3.502e3	1.6151	1.6151	0.286
2	Total Penta-Dioxins	29.74	5.571e3	1.601e4	3.044e2	5.120e2	0.59	NO	8.163e2	0.37645	0.37645	0.286
3	Total Penta-Dioxins	30.23	1.148e4	2.027e4	7.862e2	1.120e3	0.70	NO	1.907e3	0.87923	0.87923	0.286
4	Total Penta-Dioxins	30.40	1.172e4	1.422e4	6.669e2	8.113e2	0.82	YES	0.000e0	0.00000	0.60987	0.286
5	Total Penta-Dioxins	30.50	7.563e3	1.132e4	2.499e2	3.905e2	0.64	NO	6.403e2	0.29529	0.29529	0.286
6	Total Penta-Dioxins	30.70	1.017e4	1.530e4	5.895e2	1.130e3	0.52	YES	0.000e0	0.00000	0.70341	0.286
7	1,2,3,7,8-PeCDD	31.47	1.298e4	1.158e4	6.019e2	6.040e2	1.00	YES	1.206e3	0.00000	0.45398	0.286
8	Total Penta-Dioxins	31.56	3.495e3	3.393e3	1.161e2	1.743e2	0.67	NO	2.905e2	0.13395	0.13395	0.286
9	Total Penta-Dioxins	31.86	2.344e3	4.514e3	1.194e2	1.840e2	0.65	NO	0.000e0	0.00000	0.13995	0.286

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Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.35	2.229e5	1.826e5	1.142e4	9.522e3	1.20	NO	2.095e4	13.457	13.457	0.257
2	Total Hexa-Dioxins	33.90	1.866e4	1.810e4	1.042e3	8.789e2	1.19	NO	1.921e3	1.2340	1.2340	0.257
3	Total Hexa-Dioxins	34.17	2.331e5	1.832e5	1.650e4	1.320e4	1.25	NO	2.971e4	19.087	19.087	0.257
4	1,2,3,4,7,8-HxCDD	34.86	1.174e4	1.073e4	5.540e2	5.248e2	1.06	NO	1.079e3	0.65510	0.65510	0.219
5	1,2,3,6,7,8-HxCDD	34.95	6.686e4	5.566e4	4.419e3	3.454e3	1.28	NO	7.873e3	4.4743	4.4743	0.236
6	1,2,3,7,8,9-HxCDD	35.24	2.564e4	1.965e4	1.484e3	1.263e3	1.18	NO	2.747e3	1.8577	1.8577	0.288

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.75	7.291e5	7.018e5	6.035e4	5.932e4	1.02	NO	1.197e5	115.86	115.86	0.887
2	1,2,3,4,6,7,8-HpCDD	38.77	7.364e5	7.214e5	5.204e4	5.127e4	1.02	NO	1.033e5	100.02	100.02	0.887

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.38	4.190e3	5.355e3	2.857e2	3.678e2	0.78	NO	6.535e2	0.20663	0.20663	0.147
2	Total Tetra-Furans	20.90	6.872e3	1.164e4	5.652e2	7.986e2	0.71	NO	1.364e3	0.43118	0.43118	0.147
3	Total Tetra-Furans	21.50	2.863e4	4.746e4	2.685e3	3.774e3	0.71	NO	6.459e3	2.0423	2.0423	0.147
4	Total Tetra-Furans	22.05	1.250e4	1.562e4	1.571e3	1.993e3	0.79	NO	3.564e3	1.1270	1.1270	0.147
5	Total Tetra-Furans	22.46	6.441e4	8.639e4	6.683e3	8.969e3	0.75	NO	1.565e4	4.9489	4.9489	0.147
6	Total Tetra-Furans	22.97	3.042e4	3.485e4	2.833e3	3.701e3	0.77	NO	6.534e3	2.0658	2.0658	0.147
7	Total Tetra-Furans	23.15	5.308e3	8.150e3	4.953e2	7.158e2	0.69	NO	1.211e3	0.38293	0.38293	0.147
8	Total Tetra-Furans	23.34	1.387e4	1.807e4	1.258e3	1.621e3	0.78	NO	2.879e3	0.91023	0.91023	0.147
9	Total Tetra-Furans	24.18	3.450e4	4.716e4	4.070e3	5.680e3	0.72	NO	9.750e3	3.0826	3.0826	0.147
10	Total Tetra-Furans	24.69	3.342e5	4.384e5	2.661e4	3.669e4	0.73	NO	6.330e4	20.014	20.014	0.147
11	Total Tetra-Furans	24.99	1.019e4	1.531e4	8.978e2	1.439e3	0.62	YES	0.000e0	0.00000	0.65255	0.147
12	2,3,7,8-TCDF	25.63	3.725e5	5.096e5	2.913e4	3.806e4	0.77	NO	6.719e4	21.244	21.244	0.147
13	Total Tetra-Furans	25.99	2.005e4	2.430e4	1.317e3	1.768e3	0.74	NO	3.085e3	0.97557	0.97557	0.147
14	Total Tetra-Furans	27.62	4.426e4	5.053e4	2.802e3	3.440e3	0.81	NO	6.242e3	1.9735	1.9735	0.147

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**Penta-Furans function 1**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.62	2.407e5	1.497e5	1.545e4	9.335e3	1.66	NO	2.479e4	7.9820	7.9820	0.0411

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.06	2.499e4	1.757e4	1.347e3	8.685e2	1.55	NO	2.216e3	0.71355	0.71355	0.274
2	Total Penta-Furans	29.21	4.399e5	2.998e5	2.973e4	1.829e4	1.63	NO	4.802e4	15.462	15.462	0.274
3	Total Penta-Furans	29.80	4.310e4	2.769e4	3.027e3	1.997e3	1.52	NO	5.023e3	1.6176	1.6176	0.274
4	Total Penta-Furans	30.00	9.763e4	6.335e4	5.481e3	3.531e3	1.55	NO	9.012e3	2.9020	2.9020	0.274
5	1,2,3,7,8-PeCDF	30.20	8.154e5	5.638e5	4.849e4	3.129e4	1.55	NO	7.978e4	24.927	24.927	0.274
6	Total Penta-Furans	30.46	3.084e5	2.057e5	1.658e4	1.198e4	1.38	NO	2.855e4	9.1947	9.1947	0.274
7	Total Penta-Furans	31.18	4.953e5	3.152e5	2.337e4	1.485e4	1.57	NO	3.822e4	12.308	12.308	0.274
8	2,3,4,7,8-PeCDF	31.21	2.944e5	1.602e5	6.825e3	4.196e3	1.63	NO	1.102e4	3.4957	3.4957	0.261
9	Total Penta-Furans	32.12	2.115e4	1.664e4	1.197e3	8.628e2	1.39	NO	2.059e3	0.66320	0.66320	0.274

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.79	6.021e4	5.241e4	3.169e3	2.774e3	1.14	NO	5.943e3	3.2001	3.2001	0.346
2	Total Hexa-Furans	32.96	2.129e5	1.766e5	1.073e4	8.884e3	1.21	NO	1.961e4	10.559	10.559	0.346
3	Total Hexa-Furans	33.51	2.164e5	1.670e5	1.061e4	8.782e3	1.21	NO	1.940e4	10.444	10.444	0.346
4	1,2,3,4,7,8-HxCDF	33.97	7.794e5	6.798e5	4.215e4	3.511e4	1.20	NO	7.726e4	44.016	44.016	0.335
5	1,2,3,6,7,8-HxCDF	34.10	2.194e5	1.732e5	1.426e4	1.101e4	1.30	NO	2.527e4	12.254	12.254	0.297
6	2,3,4,6,7,8-HxCDF	34.69	6.268e4	4.954e4	3.810e3	3.001e3	1.27	NO	6.811e3	3.6782	3.6782	0.342
7	1,2,3,7,8,9-HxCDF	35.62	5.174e4	4.906e4	1.447e3	1.147e3	1.26	NO	2.594e3	1.7876	1.7876	0.507
8	Total Hexa-Furans	35.65	6.576e4	5.517e4	3.321e3	2.605e3	1.27	NO	5.927e3	3.1911	3.1911	0.346

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-7B.qld

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Printed: Wednesday, July 08, 2020 9:17:38 AM Pacific Daylight Time

Name: 200604R1\_7, Date: 04-Jun-2020, Time: 12:54:39, ID: 2000964-03 PDI-148SC-A-01-02-200427 12.76, Description: PDI-148SC-A-01-02-200427

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.36	1.946e5	2.084e5	1.511e4	1.559e4	0.97	NO	3.070e4	25.909	25.909	0.371
2	Total Hepta-Furans	37.98	2.489e5	2.364e5	1.797e4	1.812e4	0.99	NO	3.608e4	36.520	36.520	0.414
3	1,2,3,4,7,8,9-HpCDF	39.31	5.898e4	5.985e4	3.371e3	3.695e3	0.91	NO	7.066e3	7.7027	7.7027	0.412

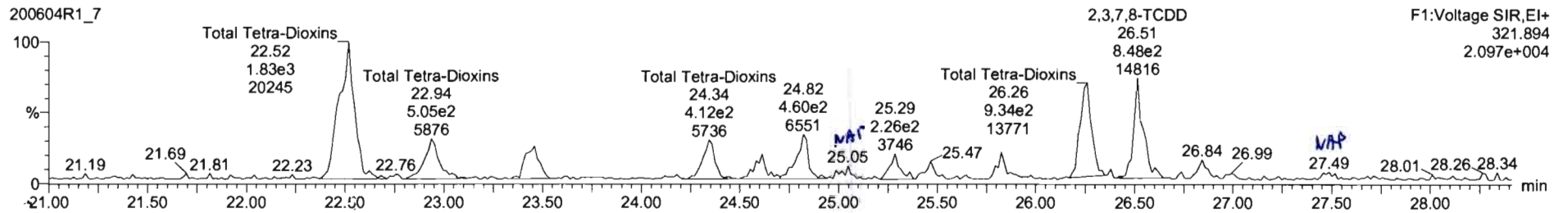
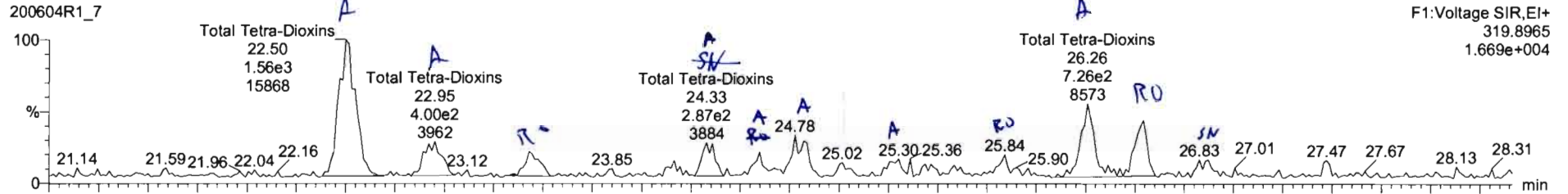


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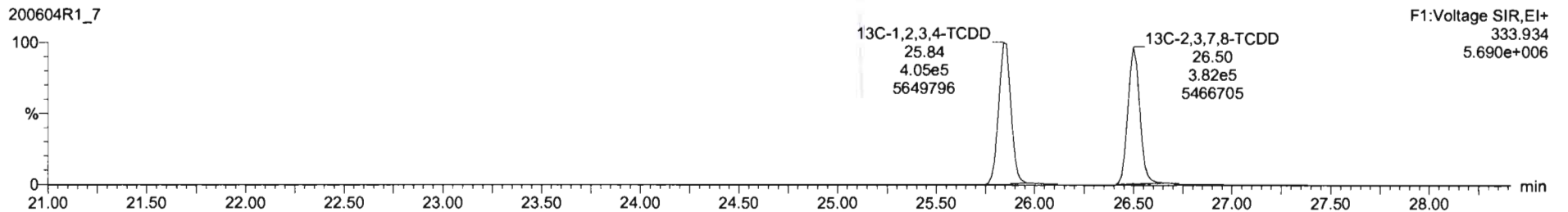
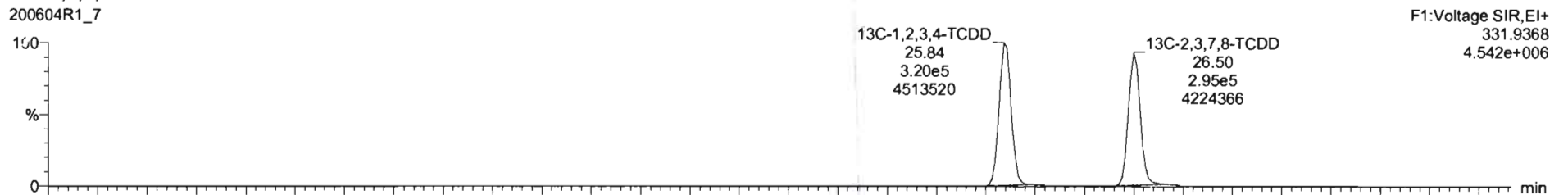
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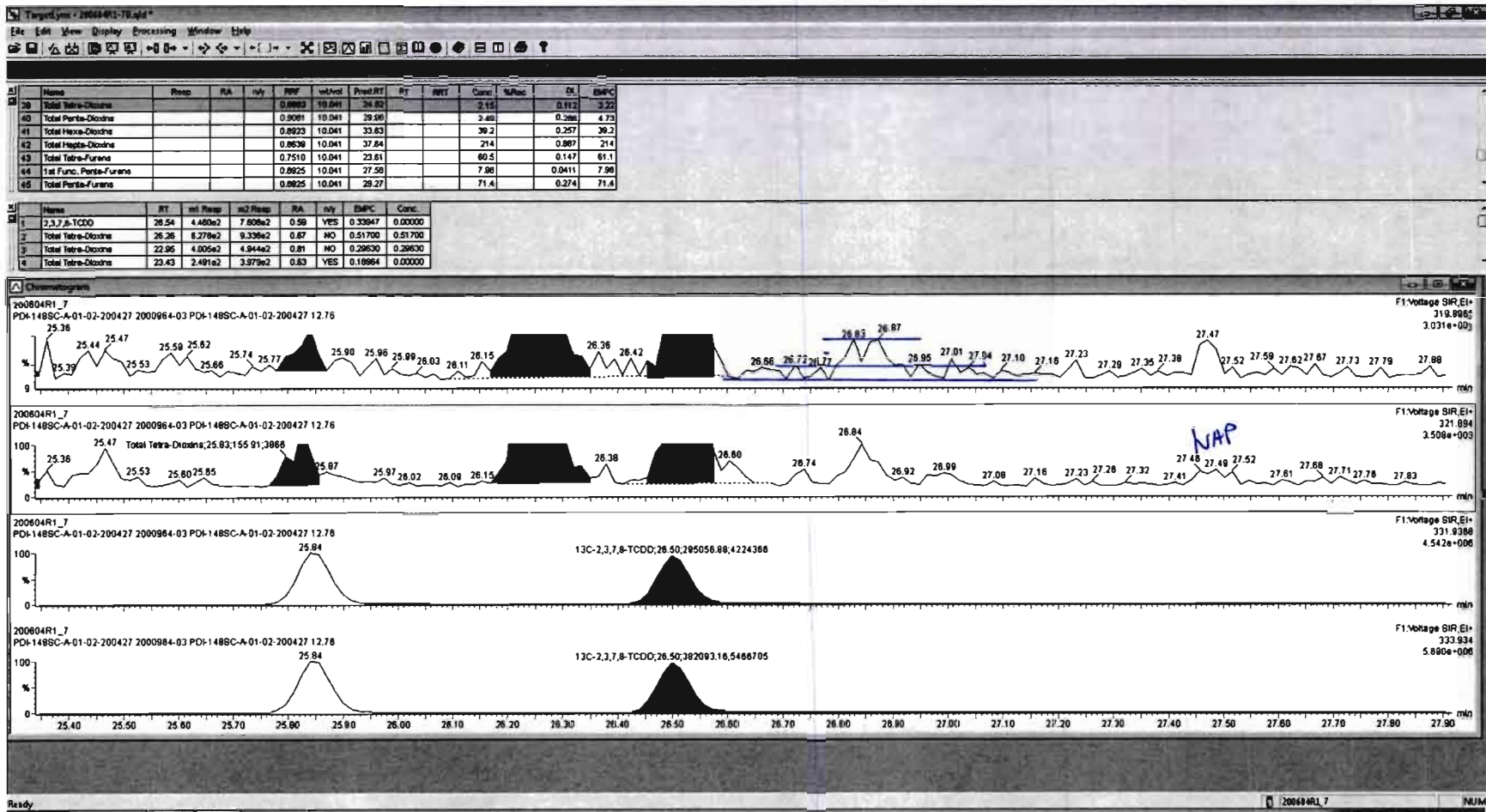
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2,3,7,8-TCDD



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



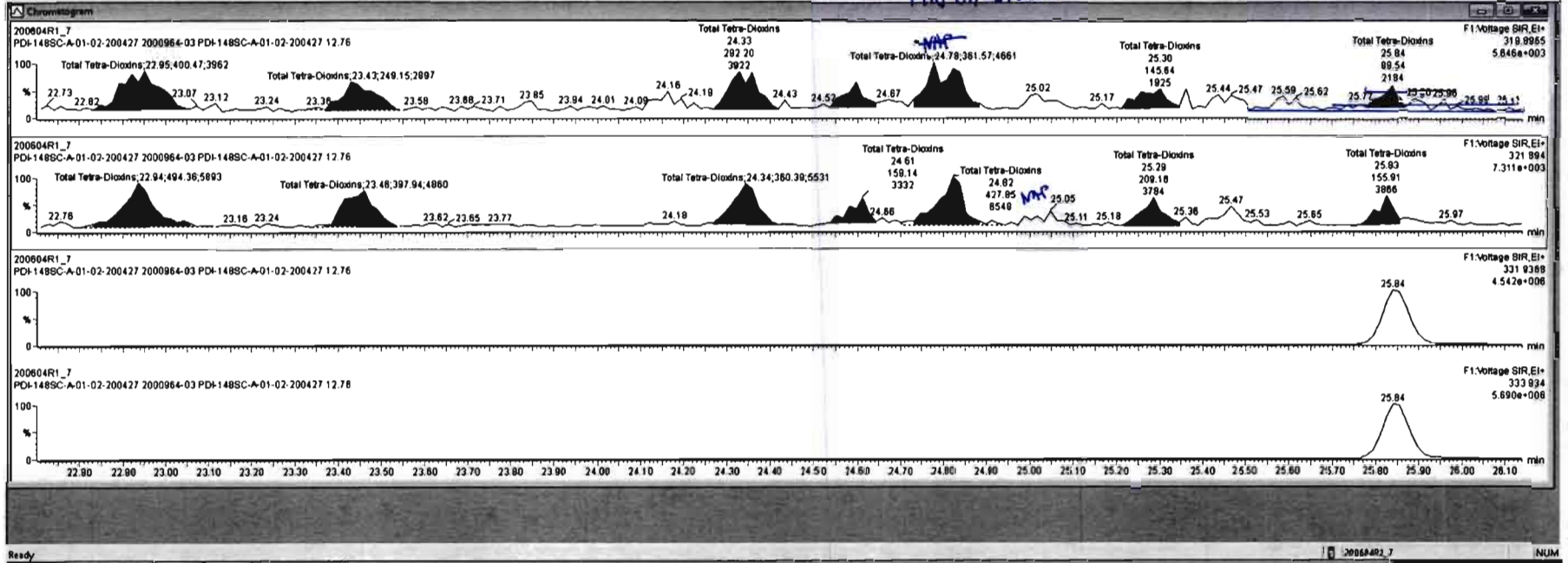




Name	Temp	RA	rvy	RFP	wtAval	Prod.RT	RT	RRT	Conc.	%Rec.	DL	EMPC
39 Total Tetra-Dioxins				0.8983	10.041	24.82			2.15	0.112	3.22	
40 Total Penta-Dioxins				0.5081	10.041	29.98			2.48	0.286	4.73	
41 Total Hexa-Dioxins				0.8923	10.041	33.83			39.2	0.257	39.2	
42 Total Hepta-Dioxins				0.8630	10.041	37.84			214	0.887	214	
43 Total Tetra-Furens				0.7510	10.041	23.81			80.5	0.147	81.1	
44 1st Func. Penta-Furens				0.8925	10.041	27.58			7.98	0.0411	7.98	
45 Total Penta-Furens				0.8925	10.041	29.27			71.4	0.274	71.4	

Name	RT	wt Ramp	wt Ramp	RA	rvy	EMPC	Conc.
1 2,3,7,8-TCDD	26.54	4.480e2	7.809e2	0.59	YES	0.33947	0.00000
2 Total Tetra-Dioxins	26.26	6.270e2	9.339e2	0.87	NO	0.51700	0.51700
3 Total Tetra-Dioxins	22.95	4.005e2	4.944e2	0.81	NO	0.29630	0.29630
4 Total Tetra-Dioxins	23.43	2.491e2	3.979e2	0.83	YES	0.18984	0.00000

HAJ 07/08/2020



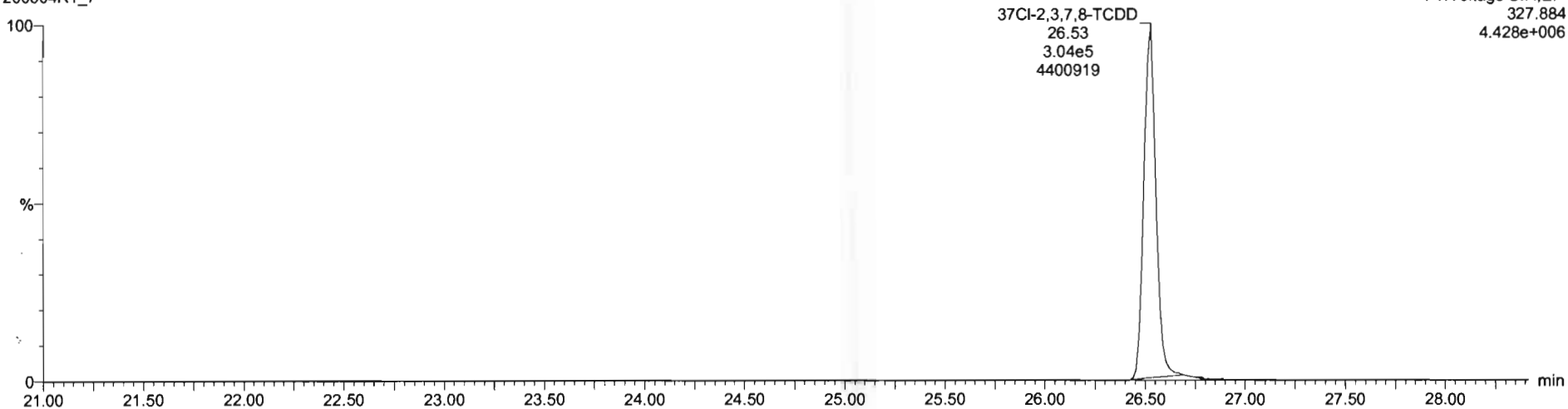
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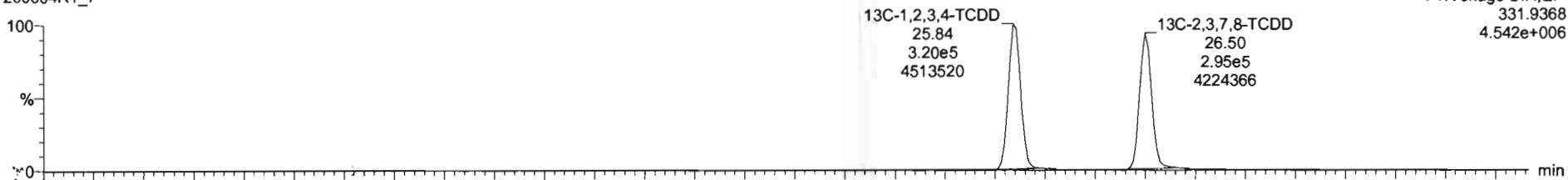
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200604R1\_7

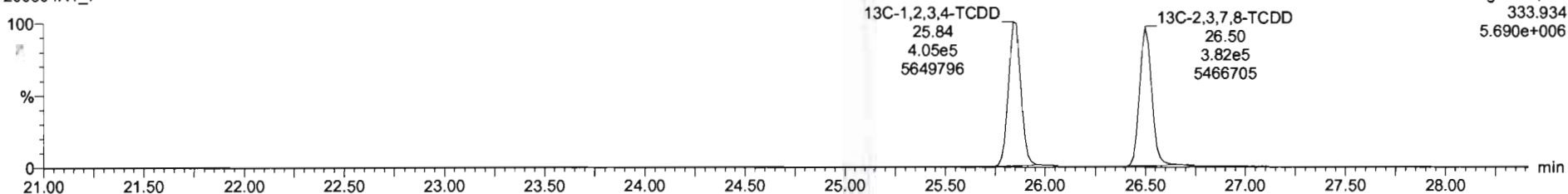


**13C-1,2,3,4-TCDD**

200604R1\_7



200604R1\_7

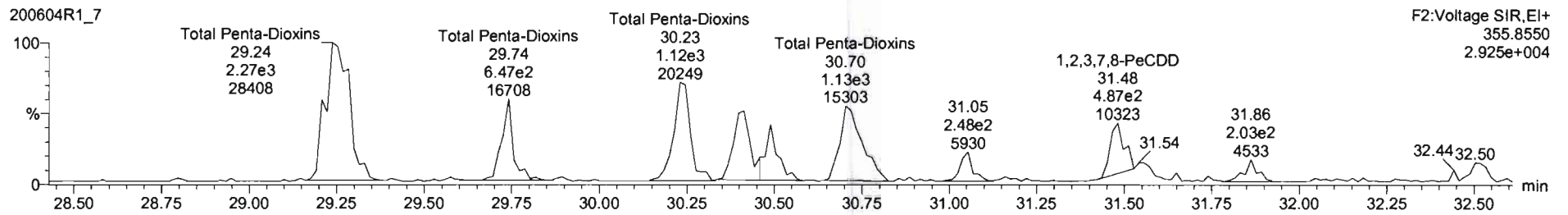
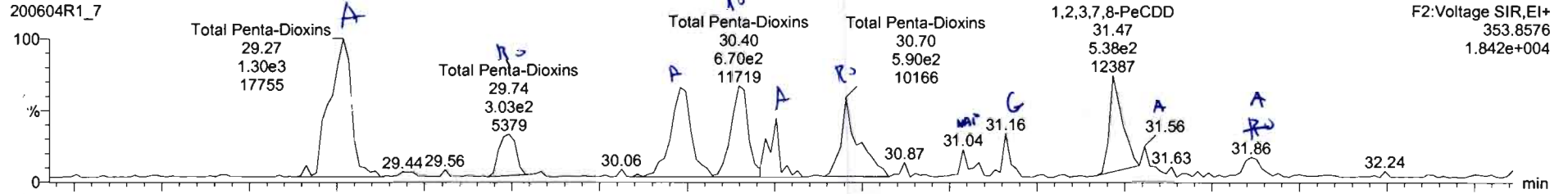


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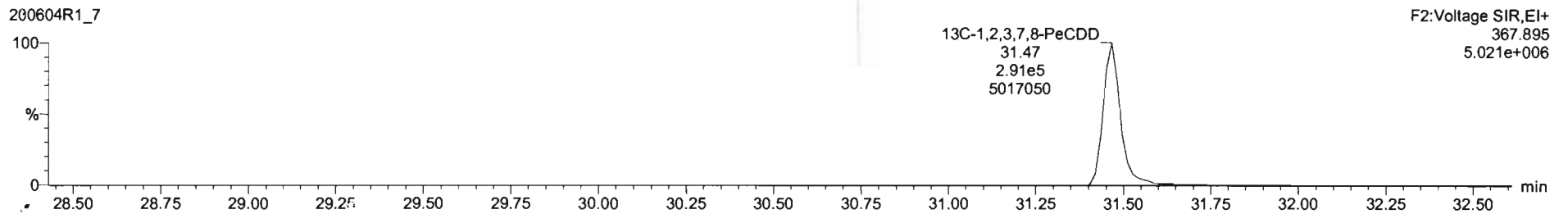
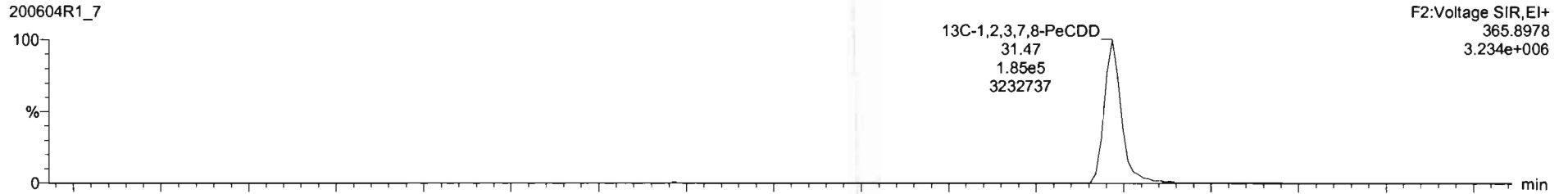
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1,2,3,7,8-PeCDD



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





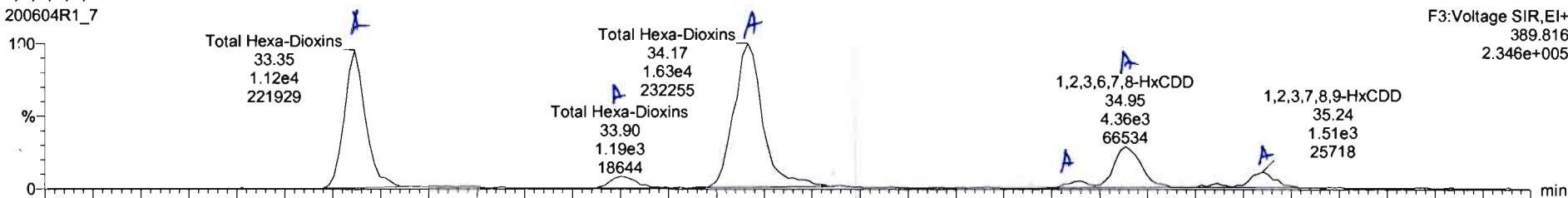
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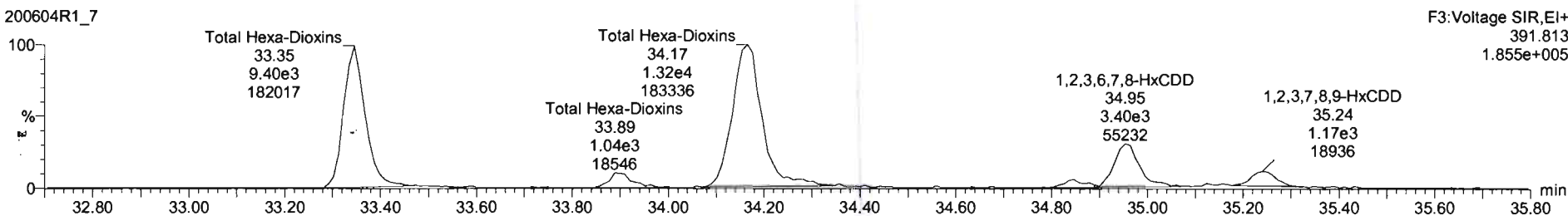
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1,2,3,4,7,8-HxCDD

200604R1\_7

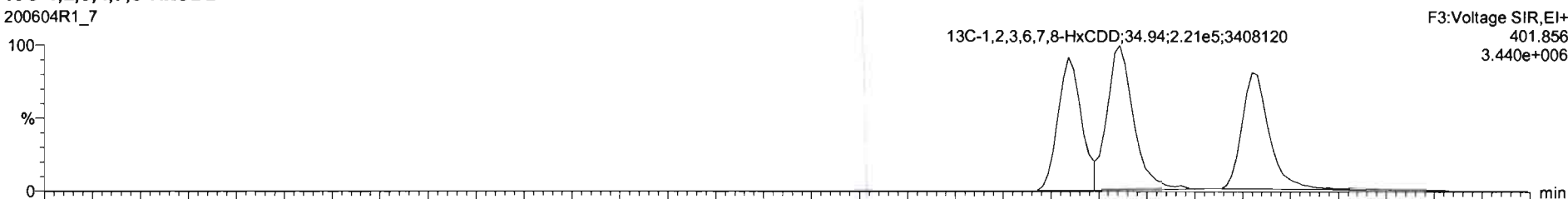


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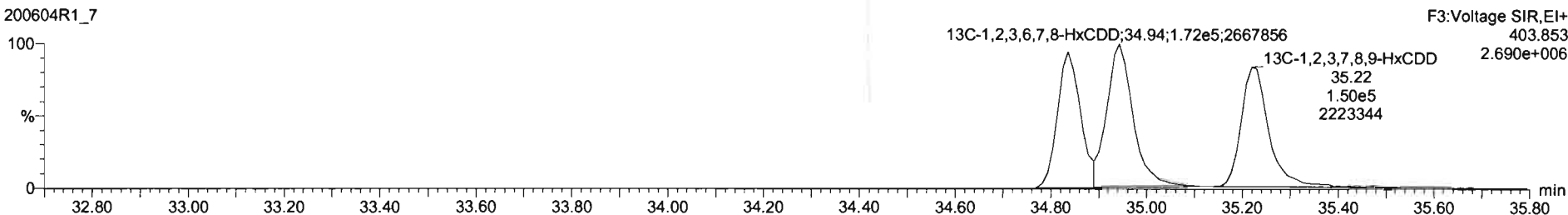


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200604R1\_7



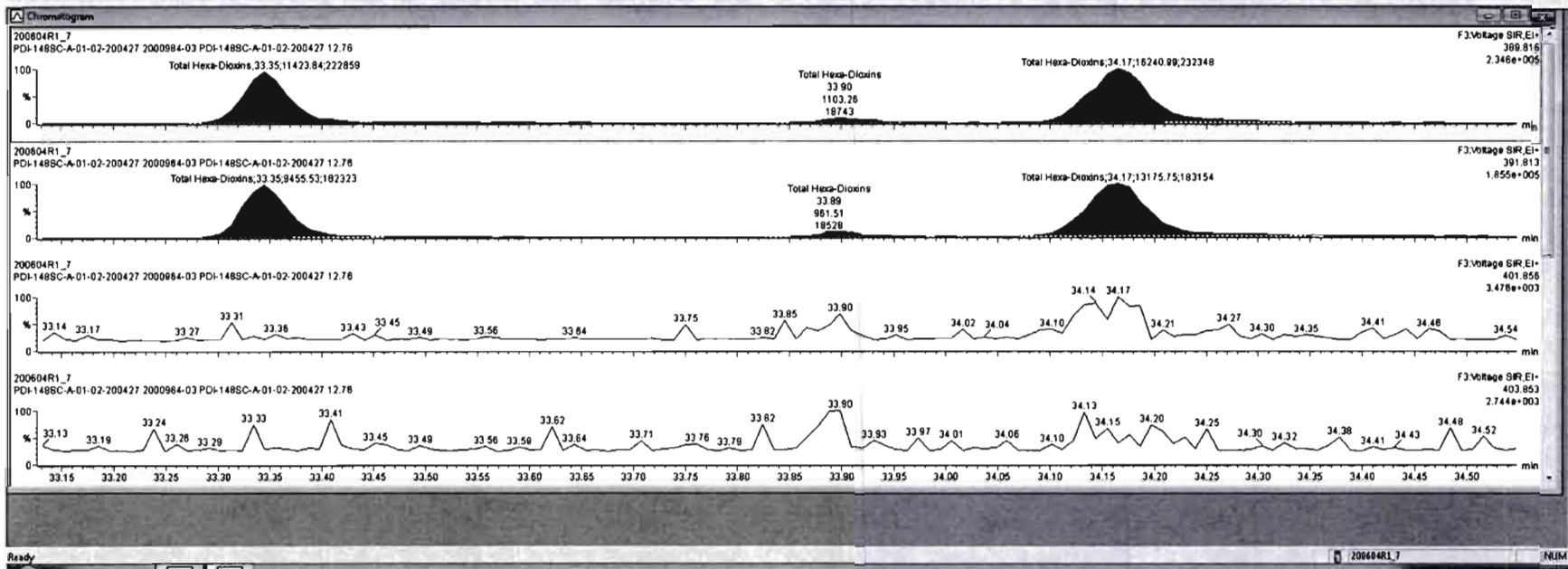
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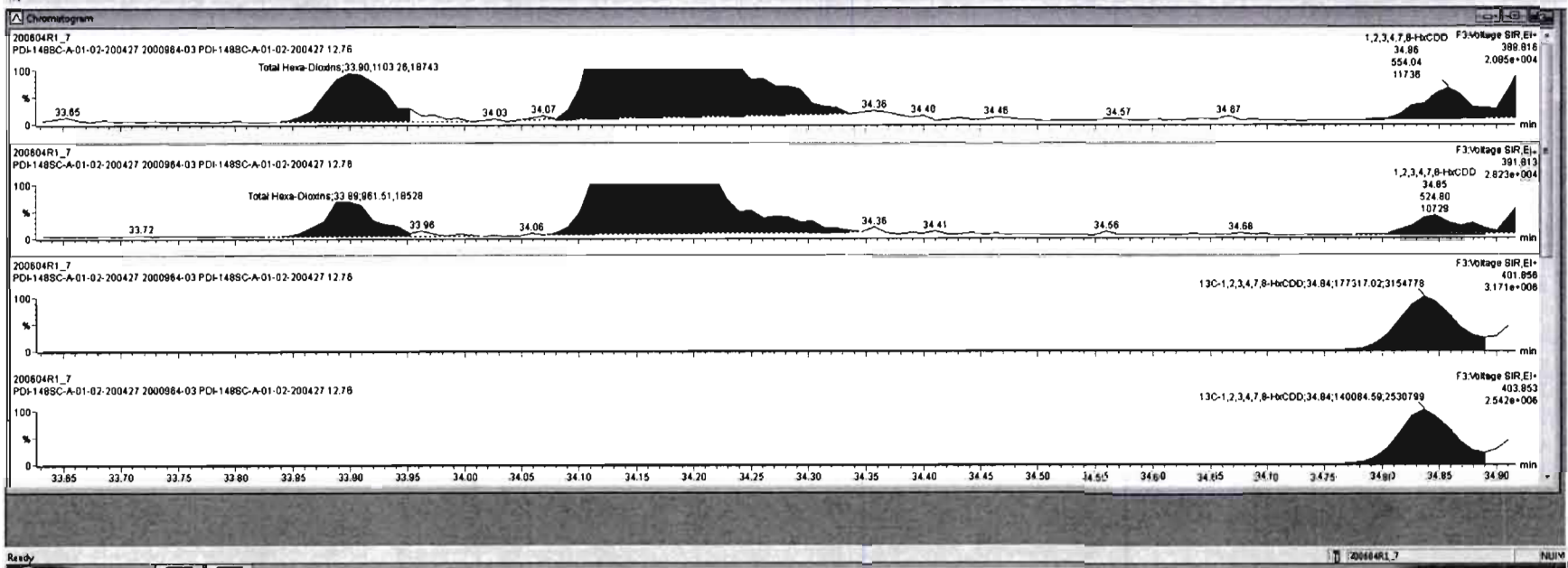
Name	Resp	RA	rly	RT	method	RT	RRT	Conc.	Ratio	DL	EMPC
40 Total Hexa-Chlorins				0.8001	10.041			7.04		0.205	5.04
41 Total Hexa-Chlorins				0.8023	10.041			60.9		0.257	40.5
42 Total Hepta-Chlorins				0.8639	10.041			216		0.867	216

Name	RT	m1 Resp	m2 Resp	RA	rly	EMPC	Conc.
1 Total Hexa-Chlorins	33.35	1.142e4	9.456e3	1.21	NO	13.415	13.415
2 Total Hexa-Chlorins	33.90	1.103e3	9.815e2	1.15	NO	1.3288	1.3288
3 Total Hexa-Chlorins	34.17	1.824e4	1.318e4	1.23	NO	18.900	18.900
4 1,2,3,4,7,β-HxCDD	34.89	5.540e2	5.248e2	1.06	NO	0.85510	0.85510
5 1,2,3,6,7,β-HxCDD	34.95	4.419e3	3.404e3	1.30	NO	4.4459	4.4458
6 1,2,3,7,8,β-HxCDD	35.24	1.494e3	1.189e3	1.27	NO	1.7945	1.7945



ID	Name	Resp	RA	n/y	RF	wtAvol	RT	RRT	Conc	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.9001	10.041			2.94	0.206	5.04	
41	Total Hexa-Dioxins				0.8623	10.041			40.5	0.287	40.5	
42	Total Hepta-Dioxins				0.8629	10.041			216	0.867	216	

ID	Name	RT	w1 Resp	w2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxins	33.35	1.142e4	9.456e3	1.21	NO	13.415	13.415
2	Total Hexa-Dioxins	33.90	1.103e3	9.815e2	1.15	NO	1.3266	1.3266
3	Total Hexa-Dioxins	34.17	1.624e4	1.310e4	1.23	NO	18.900	18.900
4	1,2,3,4,7,8-HxCDD	34.86	5.540e2	5.248e2	1.06	NO	0.85510	0.85510
5	1,2,3,6,7,8-HxCDD	34.95	4.419e3	3.404e3	1.30	NO	4.4458	4.4458
6	1,2,3,7,8,9-HxCDD	35.24	1.484e3	1.168e3	1.27	NO	1.7945	1.7945

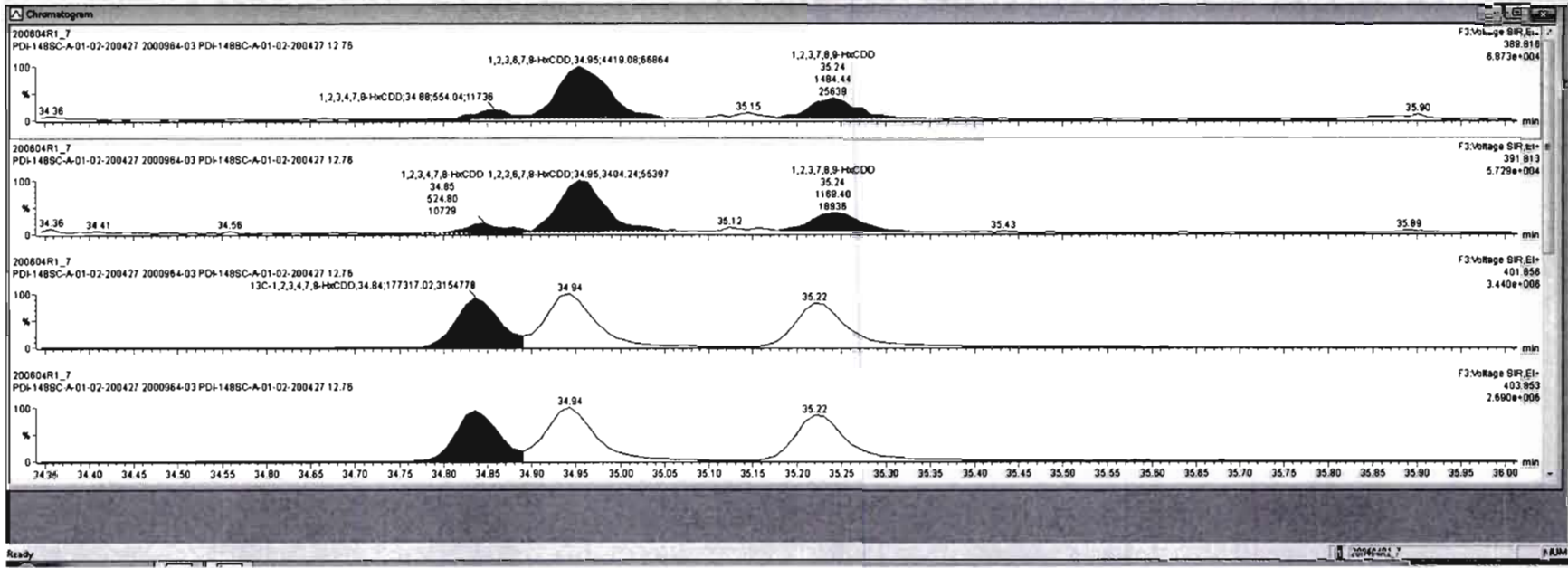




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Name	Resp	RA	nV	RFV	int/nt	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Hexa-Chlorine				0.9091	10.041			2.94	0.206	5.04	
41 Total Hexa-Chlorine				0.8923	10.041			40.5	0.257	40.5	
42 Total Hepta-Chlorine				0.8639	10.041			218	0.867	218	
43 Total Tetra-Chlorine				0.7657	10.041			44.7	0.437	44.7	

Name	RT	int Resp	int Resp	RA	nV	EMPC	Conc.
1 Total Hexa-Chlorine	33.35	1.142e4	8.459e3	1.21	NO	13.415	13.415
2 Total Hexa-Chlorine	33.90	1.103e3	8.815e2	1.15	NO	1.3266	1.3266
3 Total Hexa-Chlorine	34.17	1.824e4	1.318e4	1.23	NO	18.900	18.900
4 1,2,3,4,7,8-HxCDD	34.86	5.540e2	5.249e2	1.06	NO	0.85510	0.85510
5 1,2,3,6,7,8-HxCDD	34.95	4.419e3	3.404e3	1.30	NO	4.4458	4.4458
6 1,2,3,7,8,9-HxCDD	35.24	1.484e3	1.169e3	1.27	NO	1.7945	1.7945



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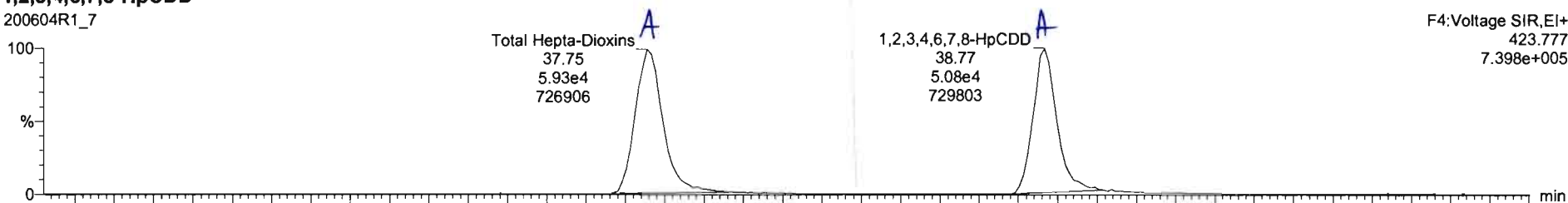
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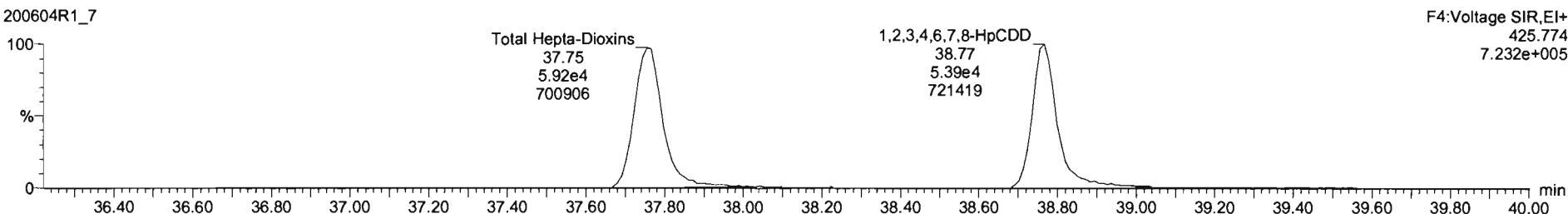
Name: 200604R1\_7, Date: 04-Jun-2020, Time: 12:54:39, ID: 2000964-03 PDI-148SC-A-01-02-200427 12.76, Description: PDI-148SC-A-01-02-200427

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

200604R1\_7

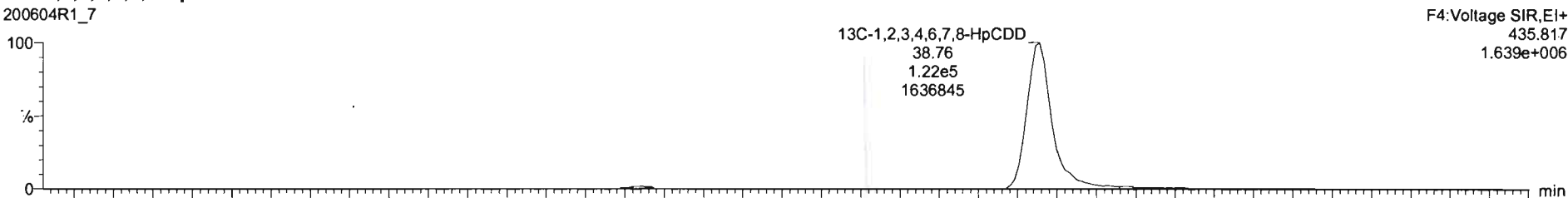


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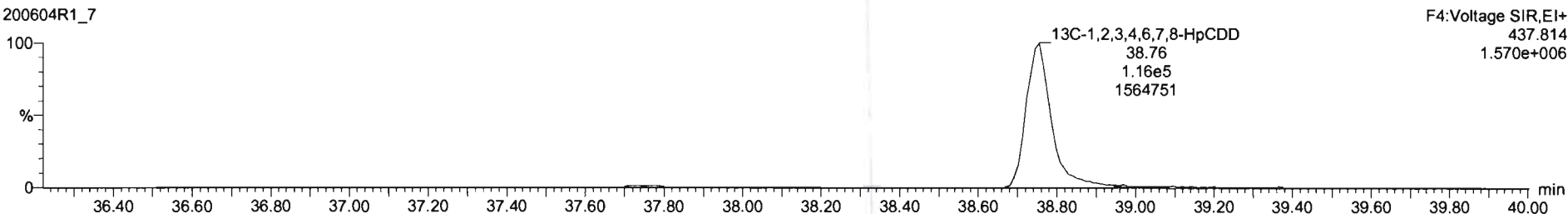


**13C-1,2,3,4,6,7,8-HpCDD**

200604R1\_7

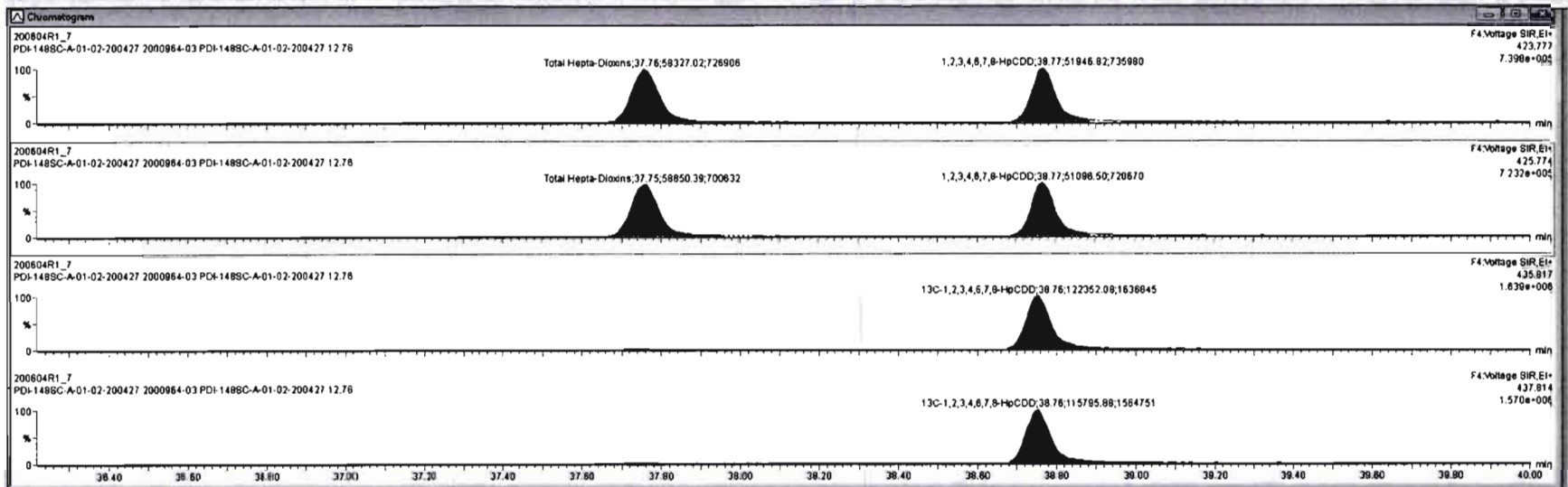


200604R1\_7



Name	Resp	RA	n/y	RF	nd/nd	RT	RRT	Conc	Units	DL	EMPC
40 Total Penta-Dioxins				0.9091	10.041			2.94		0.200	5.04
41 Total Hexa-Dioxins				0.8923	10.041			40.5		0.257	40.5
42 Total Hepta-Dioxins				0.8639	10.041			214		0.087	314
43 Total Toxin Equivalent				0.7618	10.041			22.0		0.031	31.0

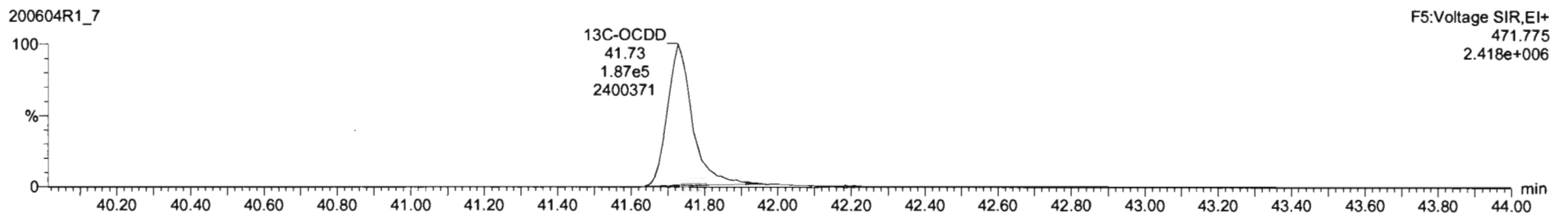
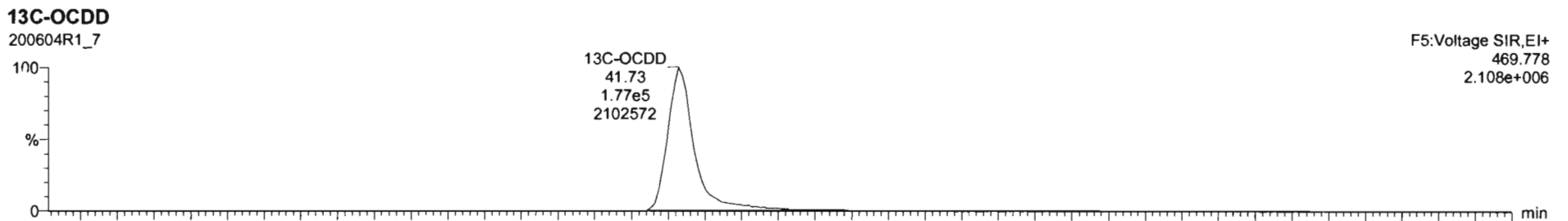
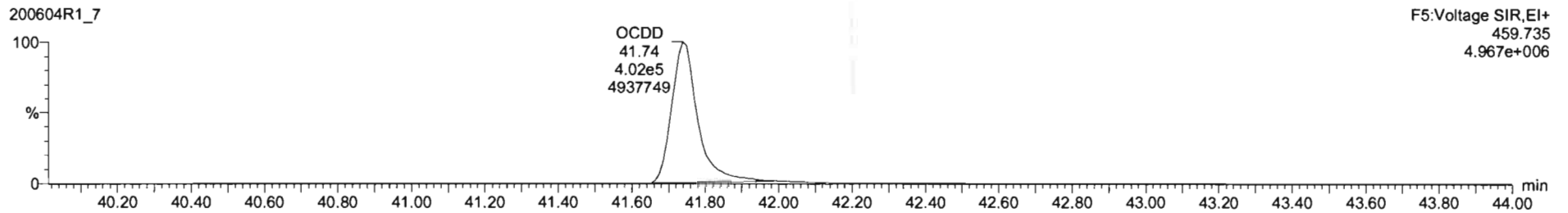
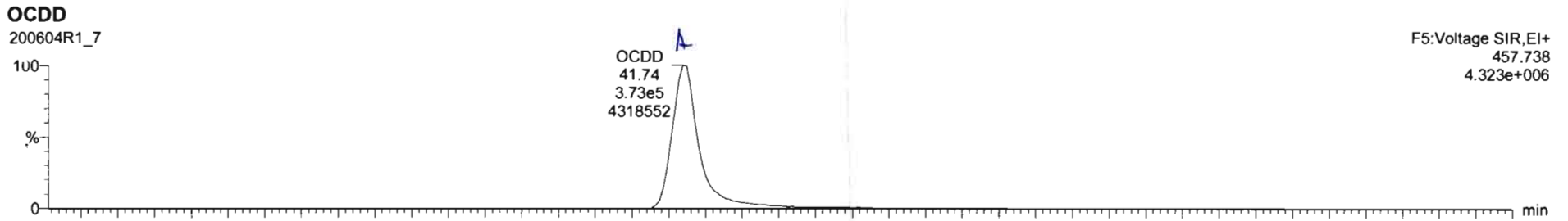
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hepta-Dioxins	37.76	5.933e4	5.005e4	1.01	NO	114.41	114.41
2 1,2,3,4,6,7,8-HpCDD	38.77	5.185e4	5.110e4	1.02	NO	99.759	99.759

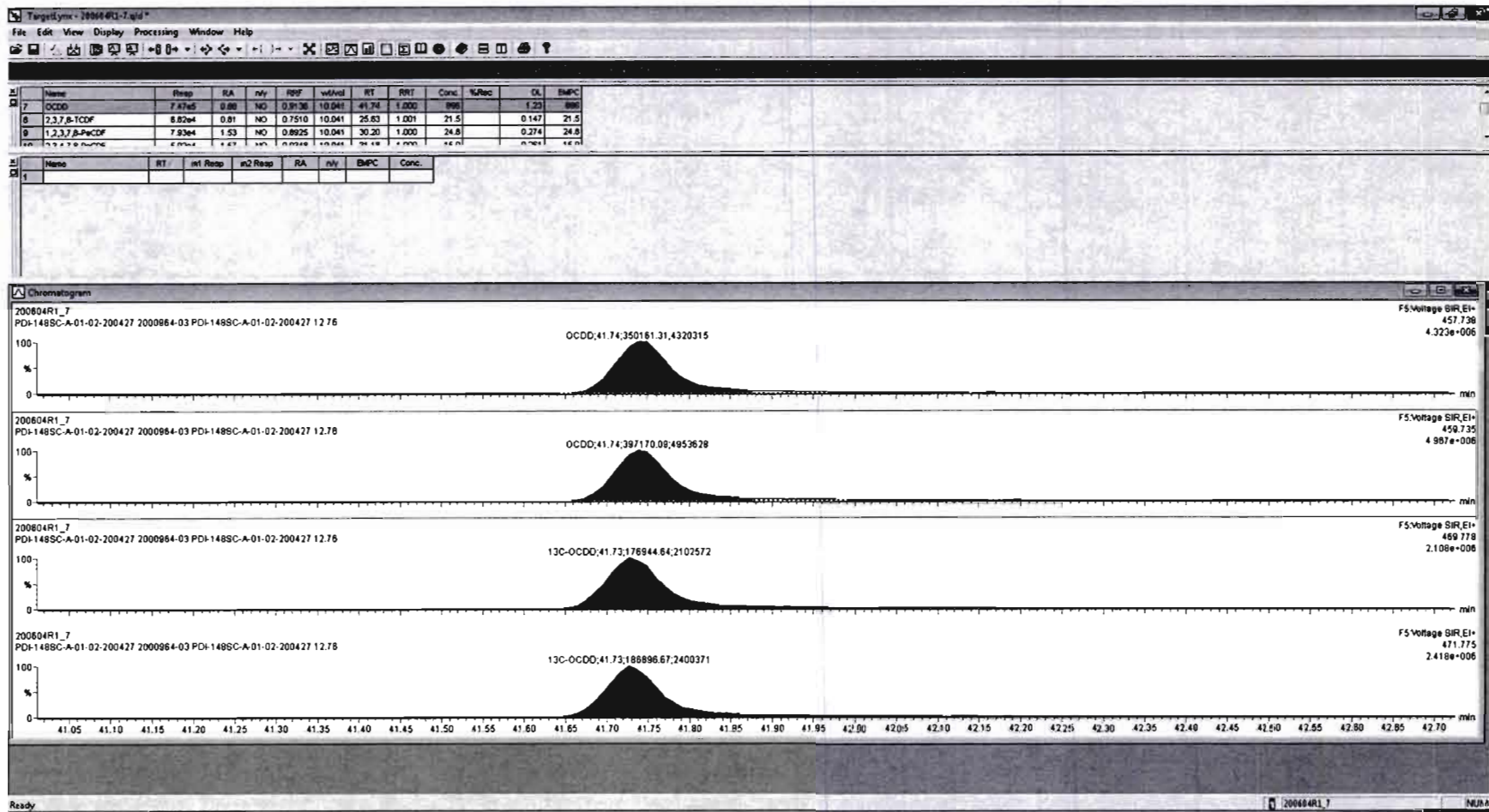


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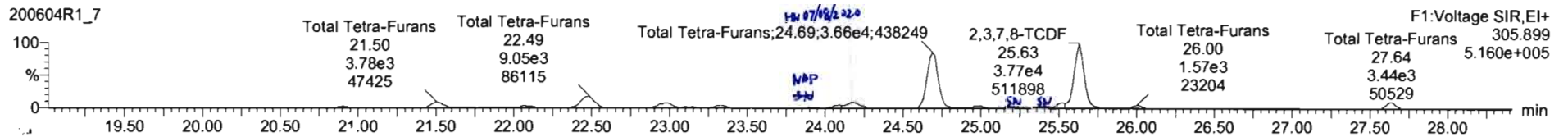
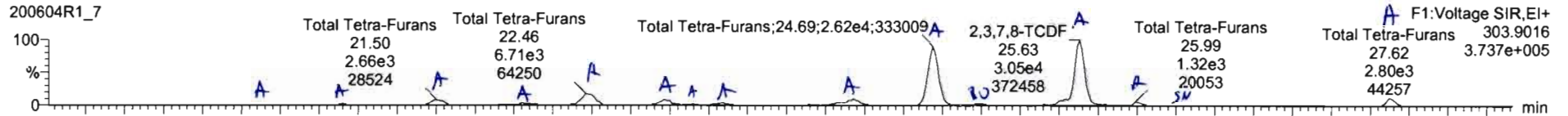


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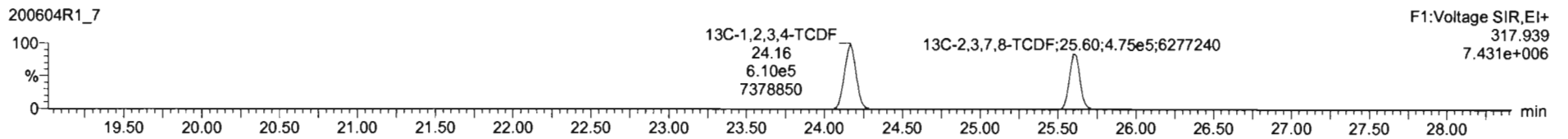
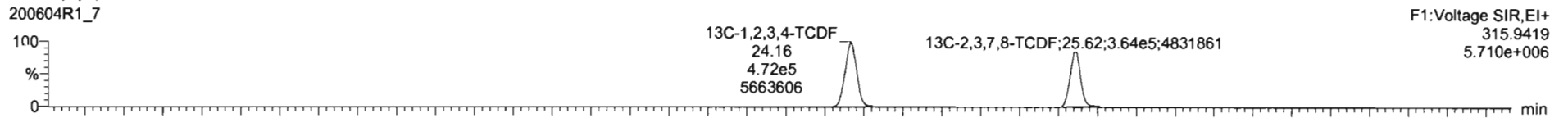
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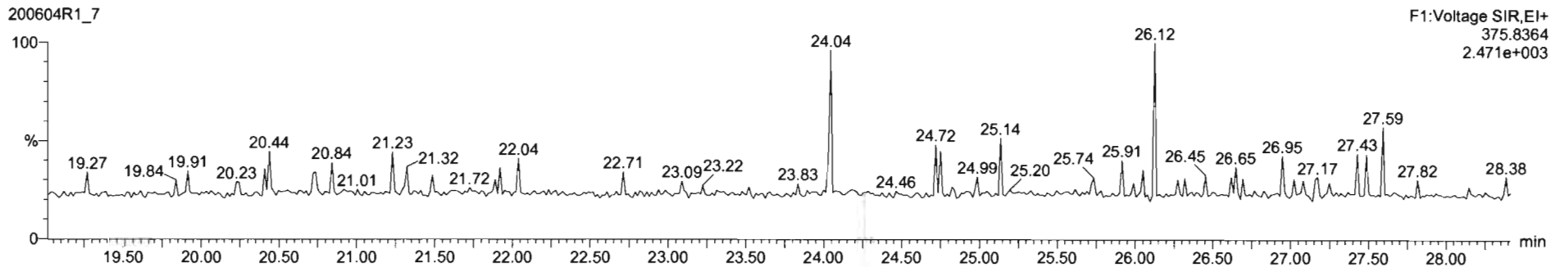
**2,3,7,8-TCDF**



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

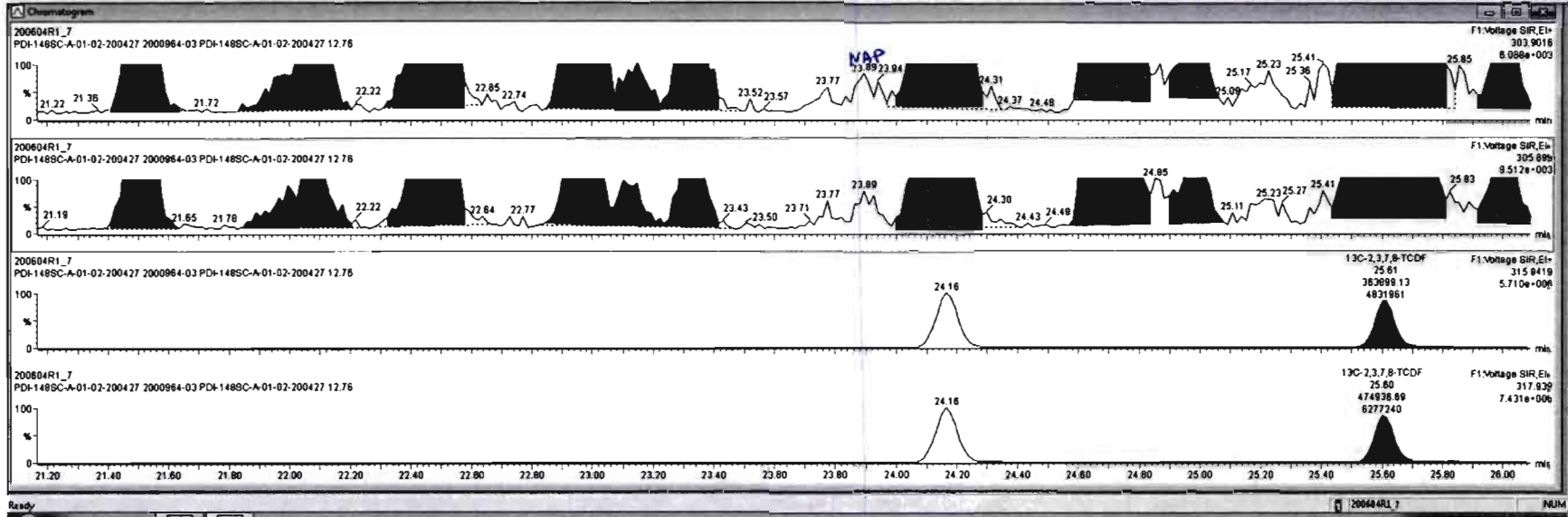


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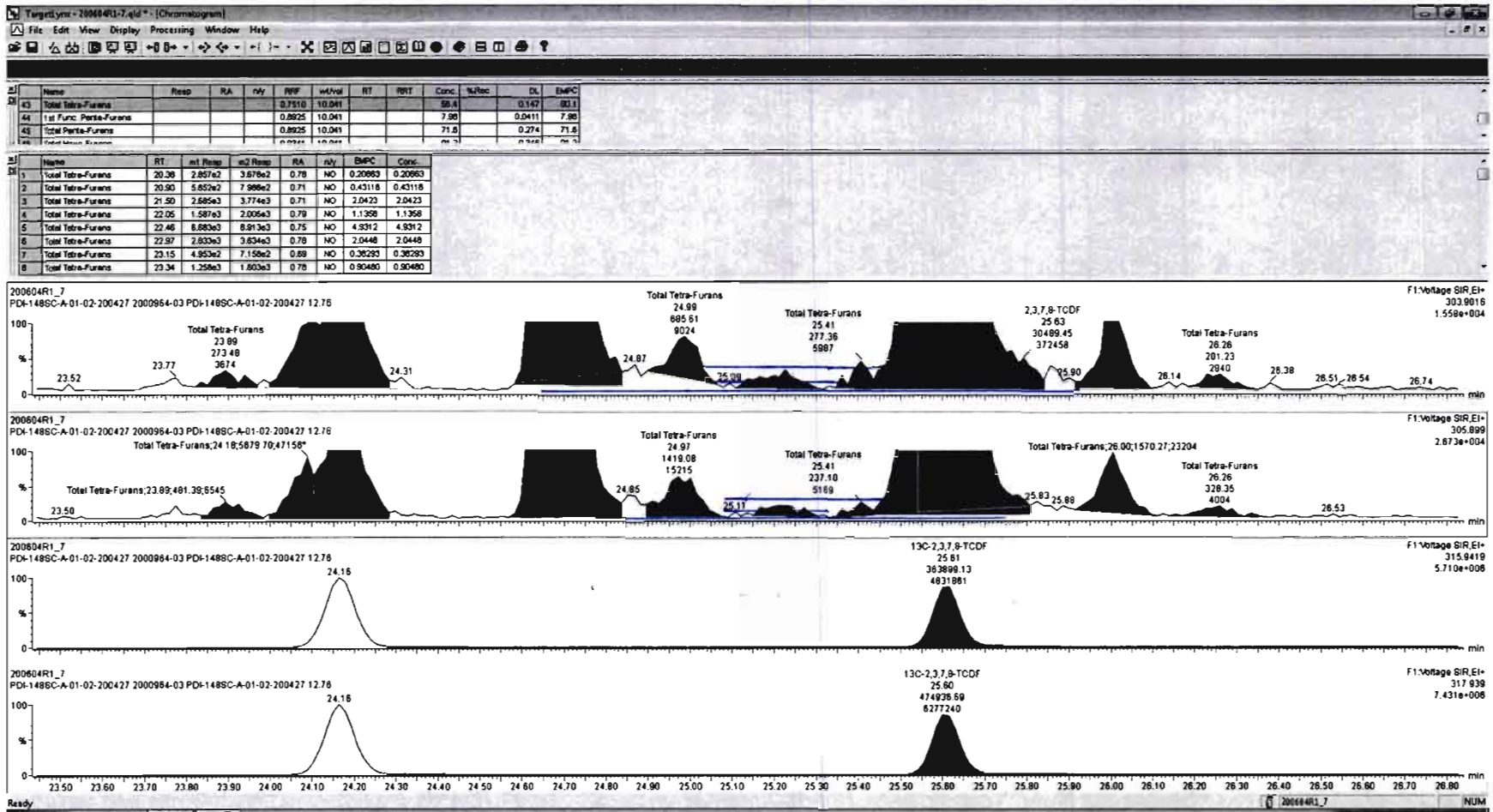


Name	Resp	RA	n/y	FWF	wtVol	Prod RT	RT	NRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furane				0.7518	10.041	23.91			86.3		0.147	87.3
44 1st Func. Penta-Furane				0.8925	10.041	27.59			7.29		0.0411	7.99
45 Total Penta-Furane				0.8925	10.041	28.27			71.4		0.274	71.4
46 Total Hexa-Furane				0.8241	10.041	33.55			89.1		0.345	89.1
47 Total Hepta-Furane				0.8724	10.041	37.83			70.1		0.414	70.1
48 PF11												
49 PF12												

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
8 Total Tetra-Furane	23.34	1.258e3	1.803e3	0.78	NO	0.90480	0.90480
9 Total Tetra-Furane	24.16	4.070e3	5.680e3	0.72	NO	3.0826	3.0826
10 Total Tetra-Furane	24.89	2.881e4	3.864e4	0.73	NO	19.999	19.999
11 Total Tetra-Furane	24.99	8.978e2	1.418e3	0.63	YES	0.65255	0.00000
12 2,3,7,8-TCDF	25.83	3.039e4	4.057e4	0.75	NO	22.434	22.434
13 Total Tetra-Furane	25.99	1.317e3	1.570e3	0.84	NO	0.91297	0.91297
14 Total Tetra-Furane	27.82	2.802e3	3.440e3	0.81	NO	1.9735	1.9735

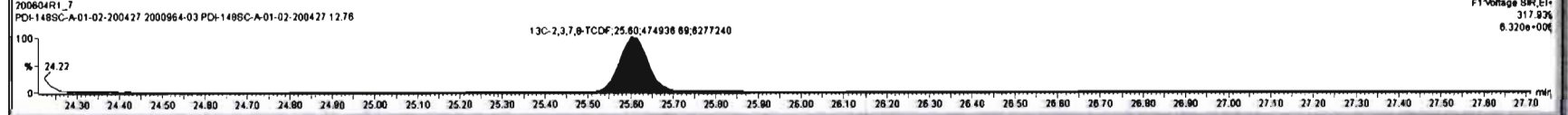
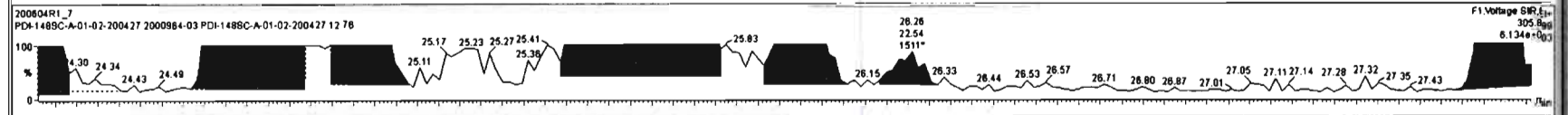
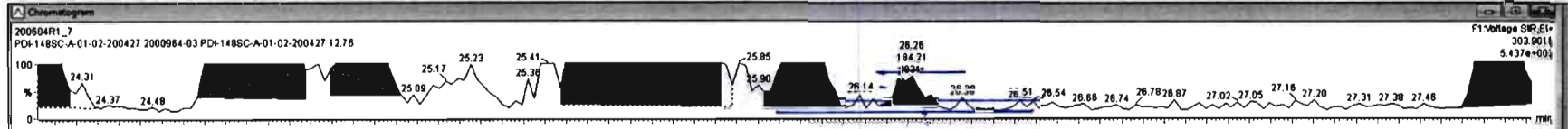


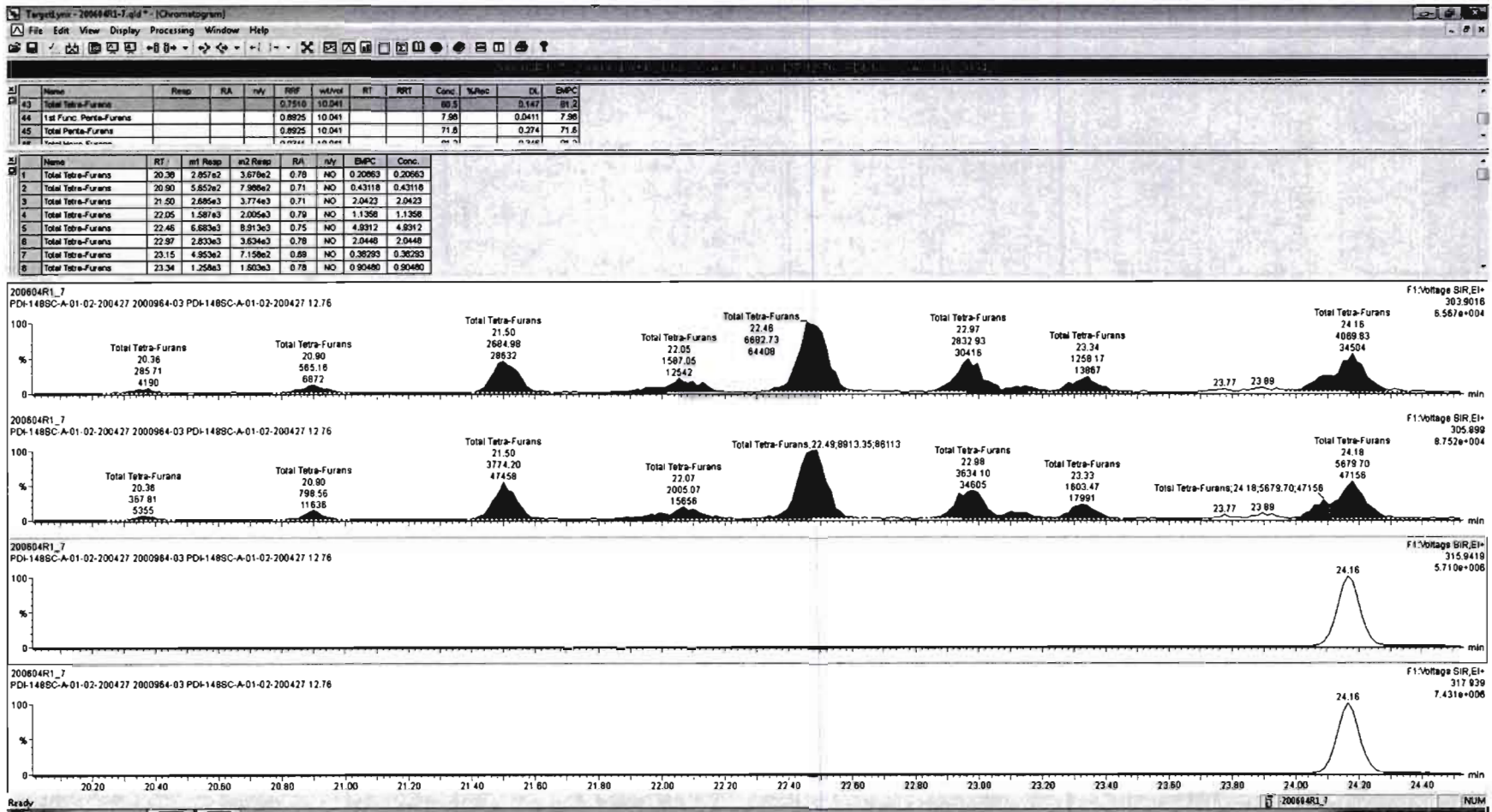


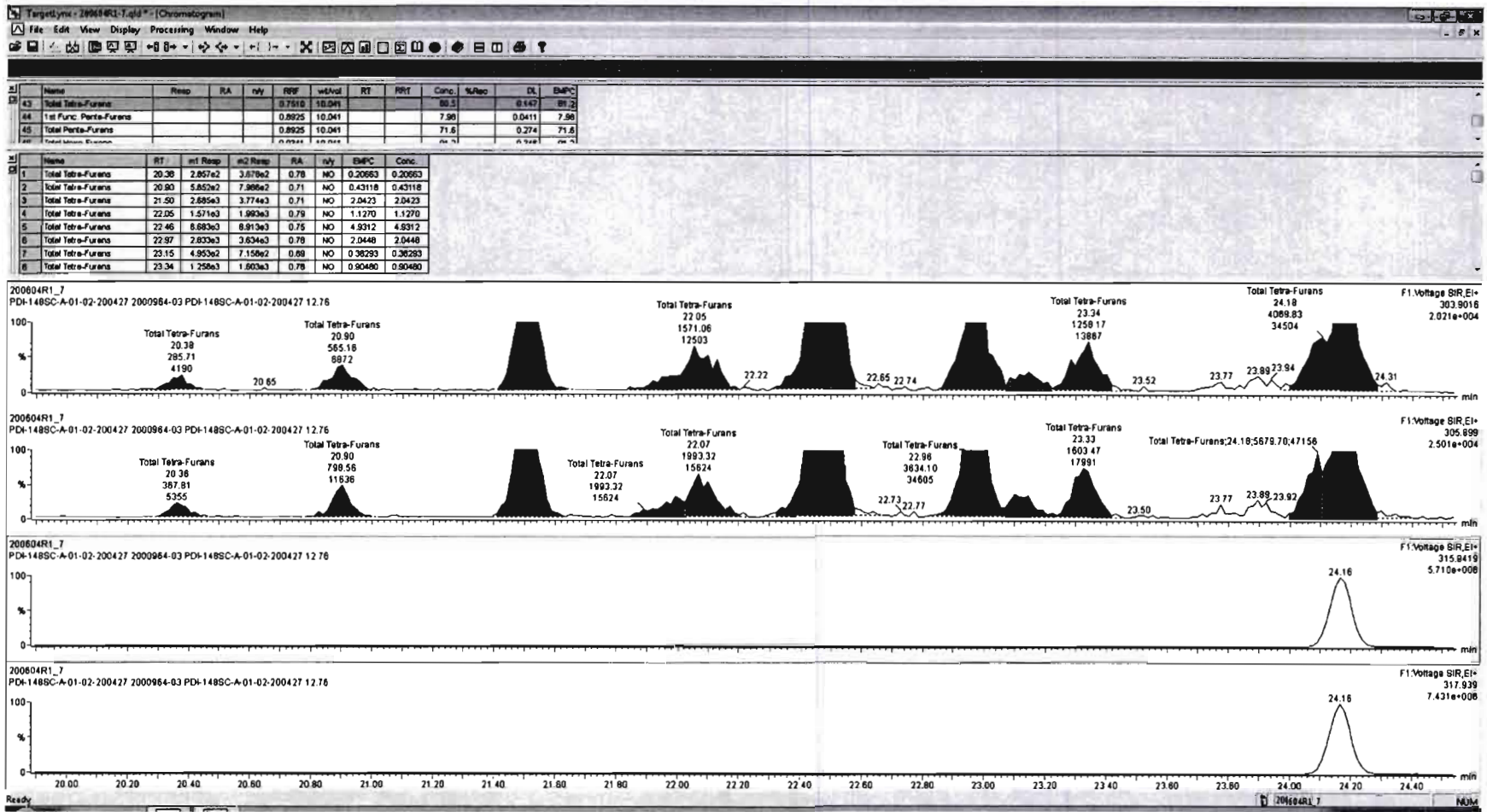


SI	Name	Resp	RA	n/y	RFV	wt/Vol	Prod RT	RT	PRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7510	10.041	23.81			80.8		0.147	81.2
44	1st Func. Penta-Furans				0.8925	10.041	27.58			7.85		0.0411	7.88
45	Total Penta-Furans				0.8925	10.041	28.27			71.4		0.274	71.4
46	Total Hexa-Furans				0.9341	10.041	33.56			89.1		0.346	89.1
47	Total Hepta-Furans				0.8734	10.041	37.83			70.1		0.414	70.1
48	PFK1												
49	PPC2												

SI	Name	RT	rel Resp	m3 Resp	RA	n/y	EMPC	Conc
1	Total Tetra-Furans	20.38	2.857e2	3.878e2	0.78	NO	0.20883	0.20883
2	Total Tetra-Furans	20.90	5.852e2	7.986e2	0.71	NO	0.43118	0.43118
3	Total Tetra-Furans	21.50	2.885e3	3.774e3	0.71	NO	2.0423	2.0423
4	Total Tetra-Furans	22.05	1.571e3	1.993e3	0.78	NO	1.1270	1.1270
5	Total Tetra-Furans	22.46	6.683e3	8.988e3	0.75	NO	4.9489	4.9489
6	Total Tetra-Furans	22.97	2.833e3	3.701e3	0.77	NO	2.0858	2.0858
7	Total Tetra-Furans	23.15	4.953e2	7.158e2	0.89	NO	0.38293	0.38293
8	Total Tetra-Furans	23.34	1.258e3	1.621e3	0.78	NO	0.91023	0.91023



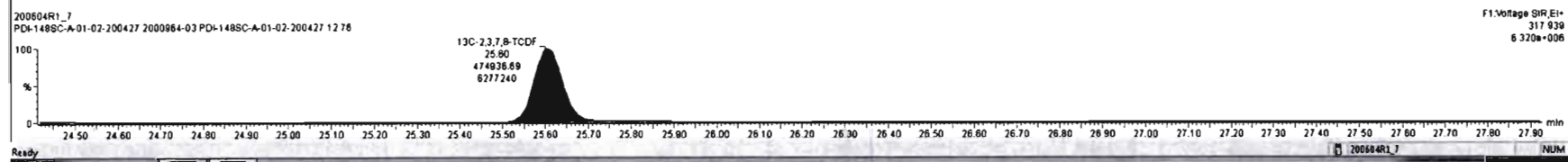
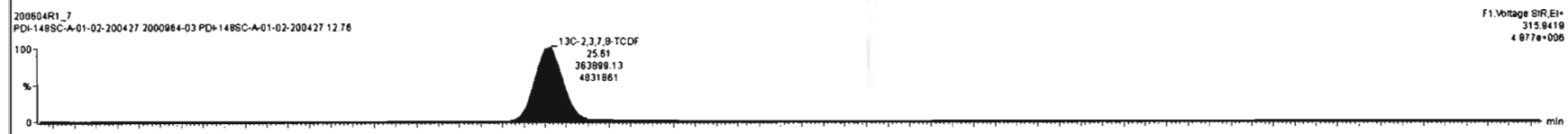
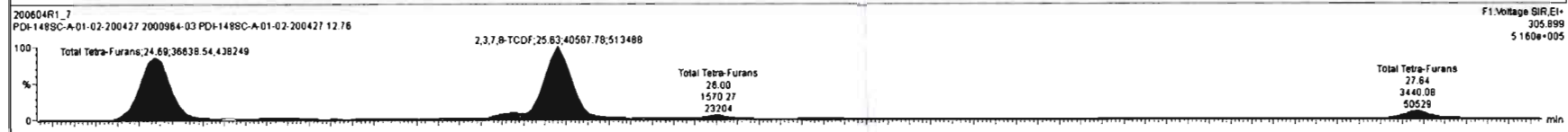
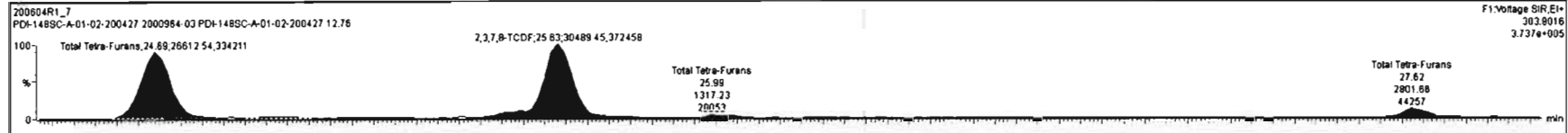


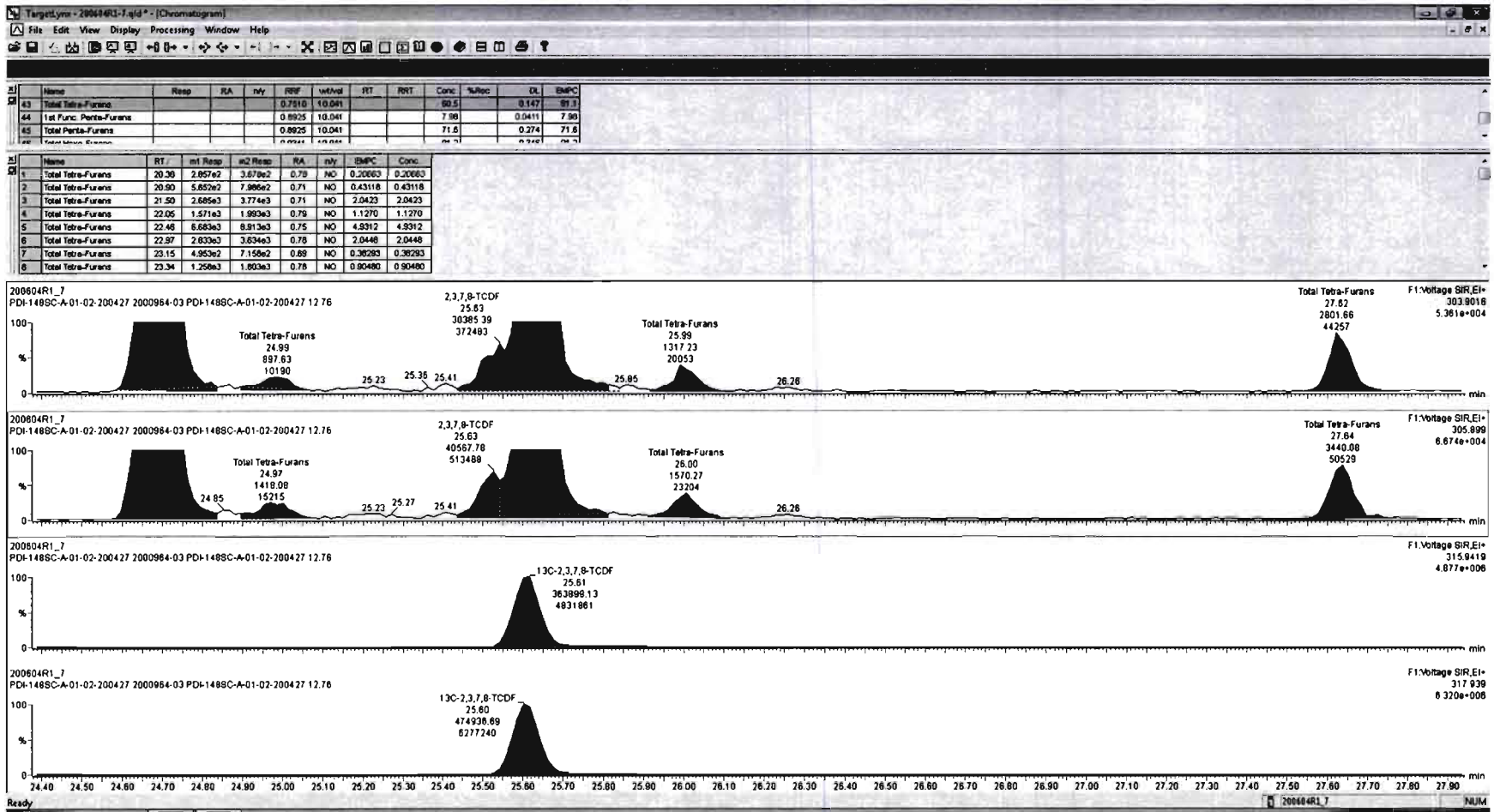




ID	Name	Resp	RA	rvf	RF	wtAvd	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7510	10.041			80.5		0.147	81.3
44	1st Func. Penta-Furans				0.8925	10.041			7.98		0.0411	7.98
45	Total Penta-Furans				0.8925	10.041			71.8		0.274	71.8

ID	Name	RT	m1 Resp	m2 Resp	RA	rvf	EMPC	Conc.
1	Total Tetra-Furans	20.38	2.857e2	3.879e2	0.78	NO	0.20663	0.20663
2	Total Tetra-Furans	20.90	5.657e2	7.896e2	0.71	NO	0.43118	0.43118
3	Total Tetra-Furans	21.50	2.685e3	3.774e3	0.71	NO	2.0423	2.0423
4	Total Tetra-Furans	22.05	1.571e3	1.983e3	0.79	NO	1.1270	1.1270
5	Total Tetra-Furans	22.46	6.683e3	8.913e3	0.75	NO	4.8912	4.8912
6	Total Tetra-Furans	22.87	2.833e3	3.634e3	0.78	NO	2.0448	2.0448
7	Total Tetra-Furans	23.15	4.953e2	7.158e2	0.89	NO	0.36293	0.36293
8	Total Tetra-Furans	23.34	1.758e3	1.803e3	0.78	NO	0.90480	0.90480







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

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

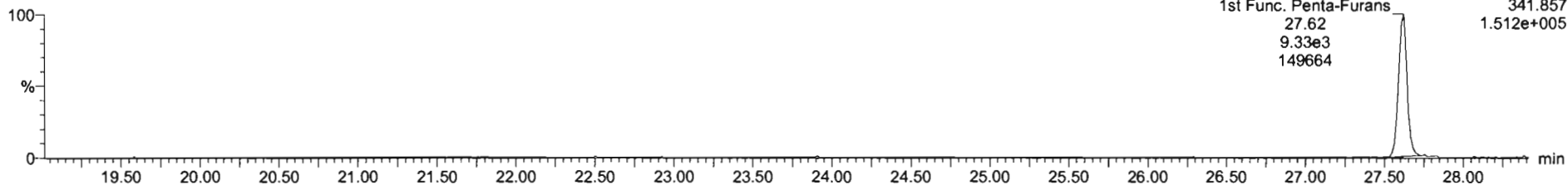
Name: 200604R1\_7, Date: 04-Jun-2020, Time: 12:54:39, ID: 2000964-03 PDI-148SC-A-01-02-200427 12.76, Description: PDI-148SC-A-01-02-200427

1st Func. Penta-Furans

200604R1\_7

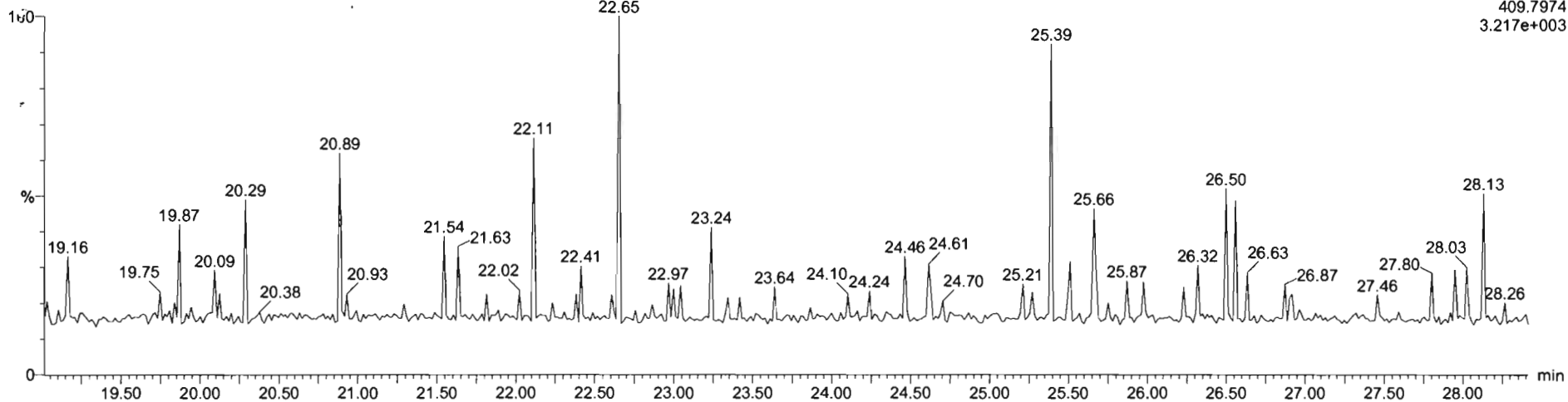


200604R1\_7



DPE6

200604R1\_7



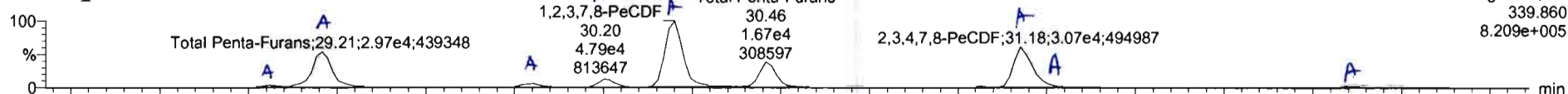
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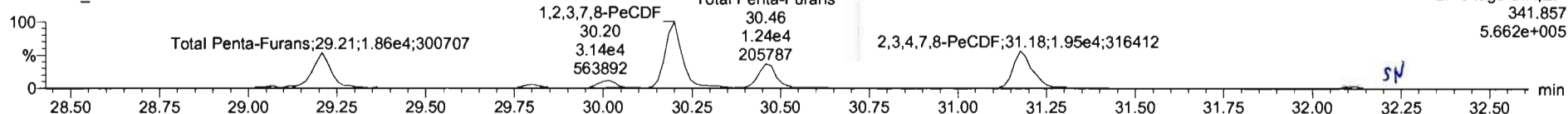
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**1,2,3,7,8-PeCDF**

200604R1\_7

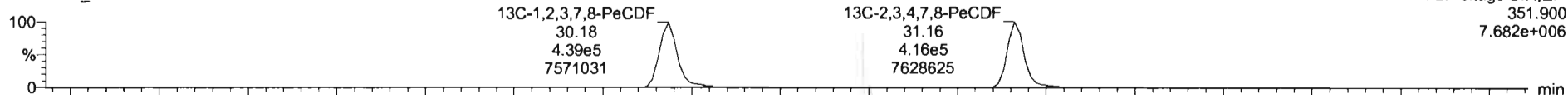


200604R1\_7

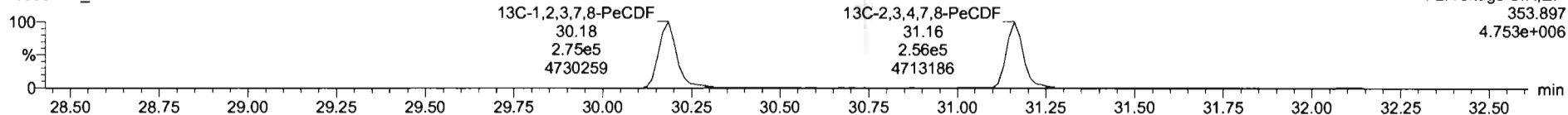


**13C-1,2,3,7,8-PeCDF**

200604R1\_7

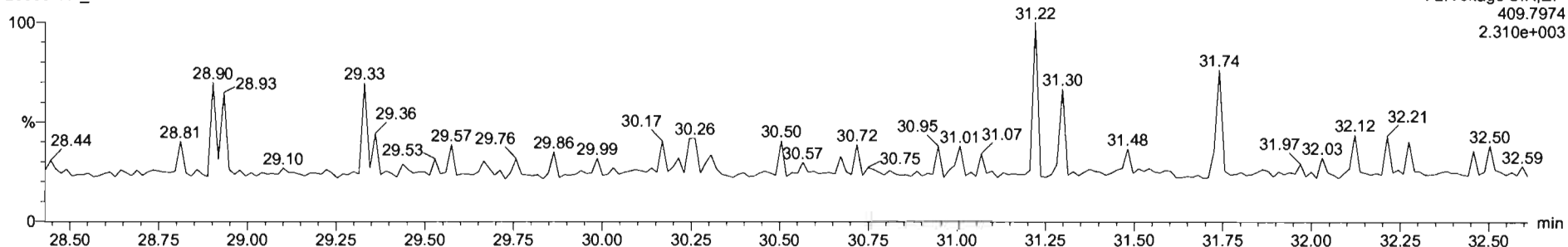


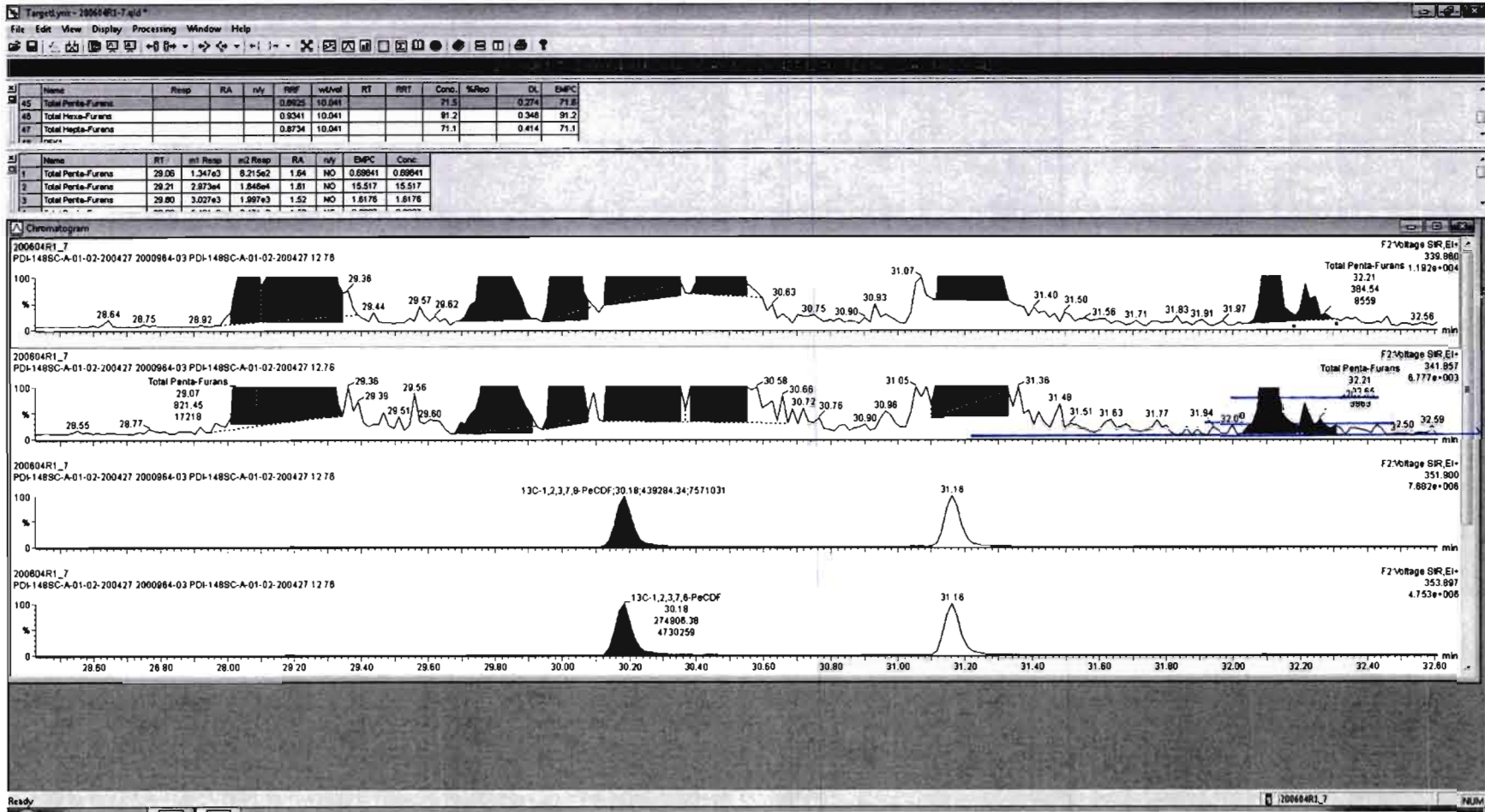
200604R1\_7



**DPE2**

200604R1\_7

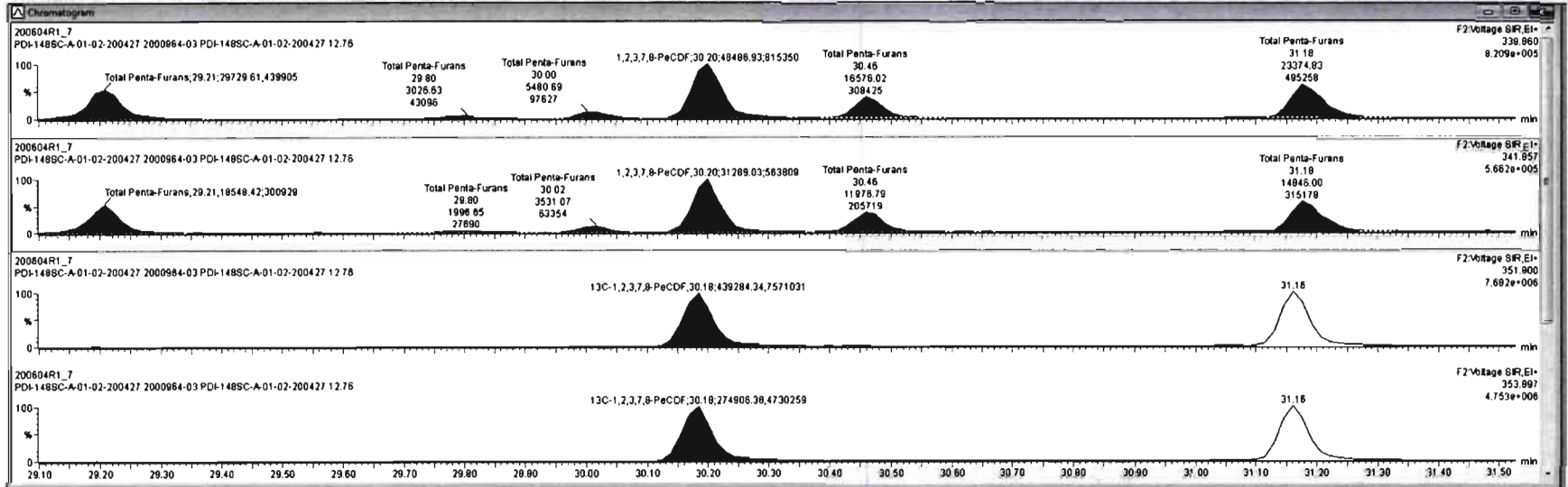




Targetlyn - 29044R1.7.qld  
 File Edit View Display Processing Window Help

Name	Resp	RA	nV	RF	wt/Av	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.8825	10.041			71.4	0.274	71.4	
46 Total Hexa-Furans				0.8341	10.041			89.1	0.348	89.1	
47 Total Hepta-Furans				0.8734	10.041			70.1	0.414	70.1	
48 PPK1											

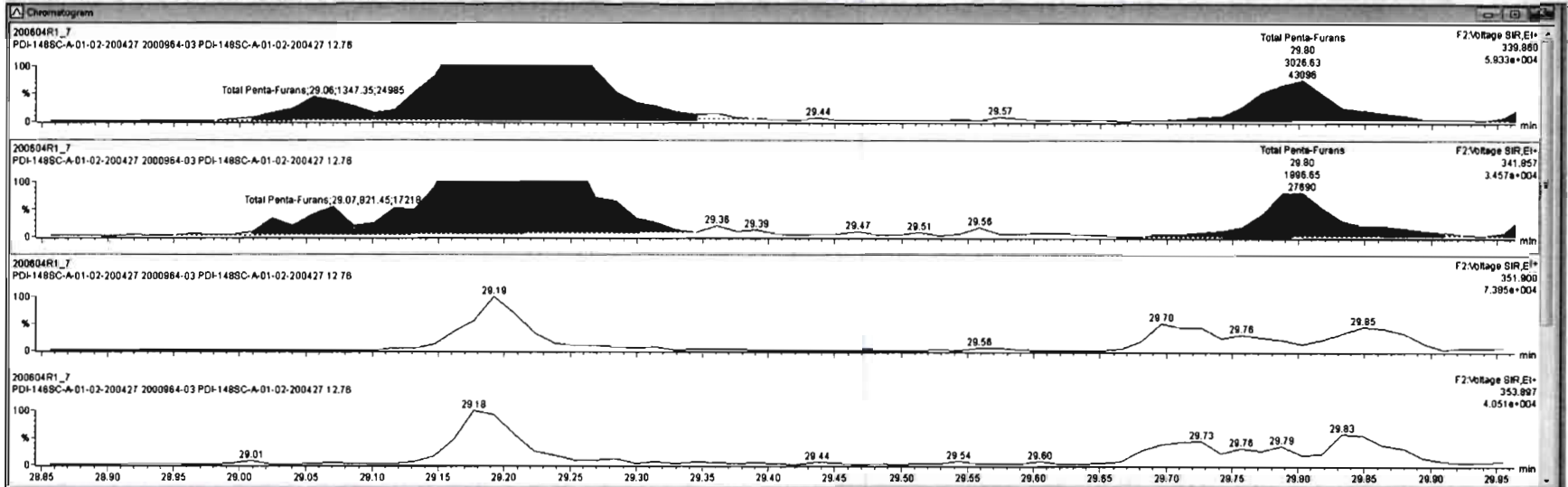
Name	RT	m1 Resp	m2 Resp	RA	nV	EMPC	Conc
1 Total Penta-Furans	29.08	1.347e3	8.715e2	1.64	NO	0.69041	0.69041
2 Total Penta-Furans	29.21	2.073e3	1.855e4	1.80	NO	15.547	15.547
3 Total Penta-Furans	29.80	3.027e3	1.907e3	1.52	NO	1.6176	1.6176
4 Total Penta-Furans	30.00	5.481e3	3.531e3	1.55	NO	2.9020	2.9020
5 1,2,3,7,8-PeCDF	30.20	4.849e4	3.129e4	1.55	NO	24.827	24.827
6 Total Penta-Furans	30.46	1.658e4	1.195e4	1.30	NO	8.1947	8.1947
7 Total Penta-Furans	31.18	2.337e4	1.485e4	1.57	NO	12.308	12.308
8 2,3,4,7,8-PeCDF	31.21	8.868e3	4.196e3	1.64	NO	3.5093	3.5093



Ready :200604R1.7 NUM

SL	Name	Resp	RA	rvly	RFV	wtAval	RT	FRF	Conc.	%Rep	DL	EMPC
45	Total Penta-Furans				0.9925	10.041			71.5	0.274	71.8	
46	Total Hexa-Furans				0.9341	10.041			91.2	0.340	91.2	
47	Total Hepta-Furans				0.8734	10.041			71.1	0.614	71.1	

SL	Name	RT	m1 Resp	m2 Resp	RA	rvly	EMPC	Conc.
1	Total Penta-Furans	29.06	1.347e3	8.215e2	1.84	NO	0.69041	0.69041
2	Total Penta-Furans	29.21	2.873e4	1.848e4	1.81	NO	15.517	15.517
3	Total Penta-Furans	29.80	3.027e3	1.997e3	1.52	NO	1.6176	1.6176

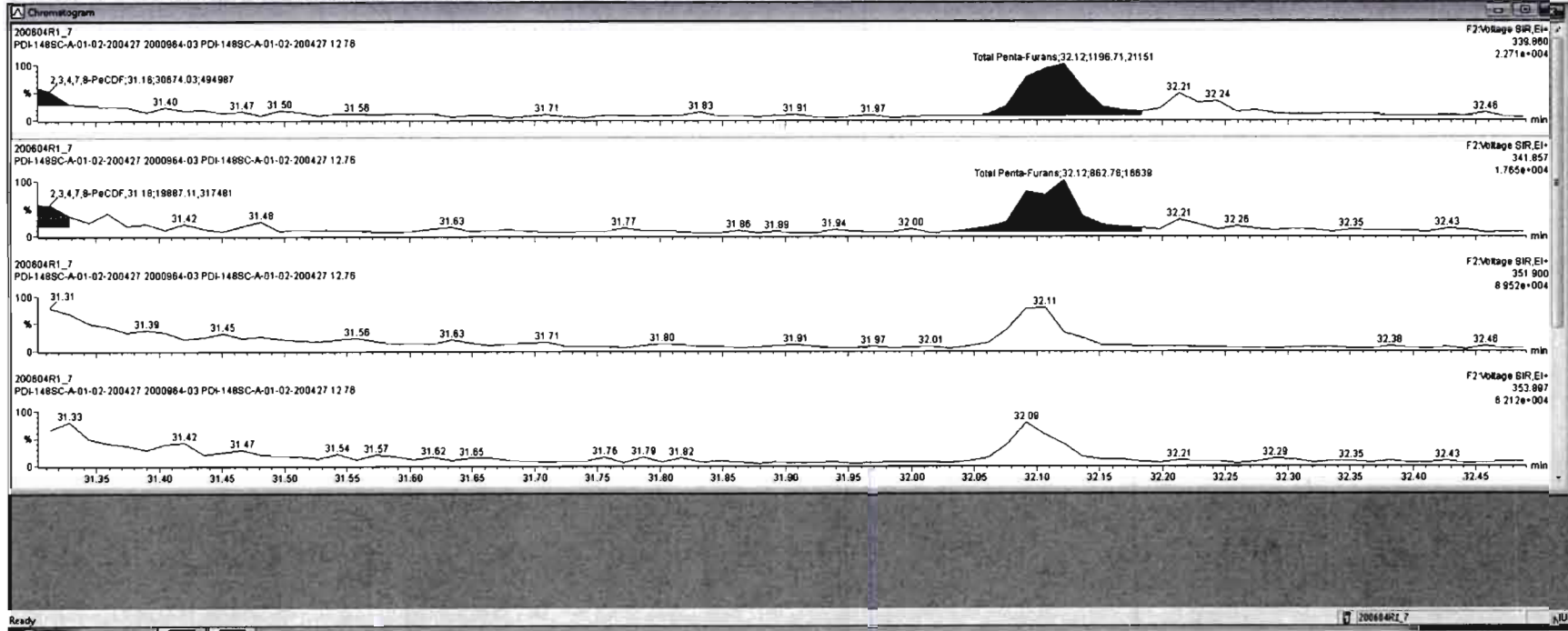




Targetlyn - 2004041-7.pld  
 File Edit View Display Processing Window Help

SL	Name	Resp	RA	n/y	FRF	wt/Vol	RT	RRF	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.8925	10.041			71.8	0.374	71.8	
46	Total Hexa-Furans				0.8341	10.041			91.2	0.348	91.2	
47	Total Hepta-Furans				0.8734	10.041			71.1	0.414	71.1	

SL	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Penta-Furans	29.06	1.347e3	8.215e2	1.84	NO	0.69041	0.69041
2	Total Penta-Furans	29.21	2.973e4	1.855e4	1.80	NO	15.547	15.547
3	Total Penta-Furans	29.80	3.027e3	1.997e3	1.52	NO	1.6176	1.6176



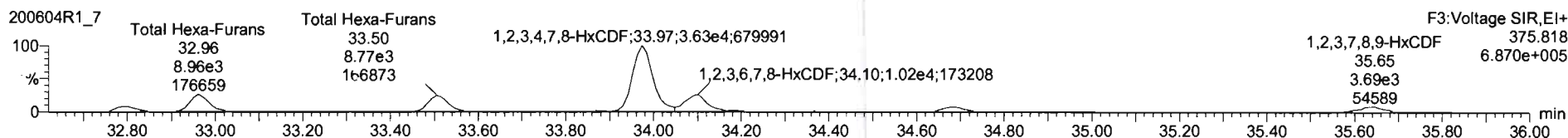
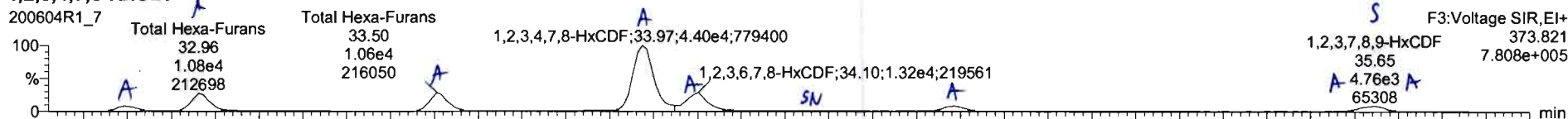


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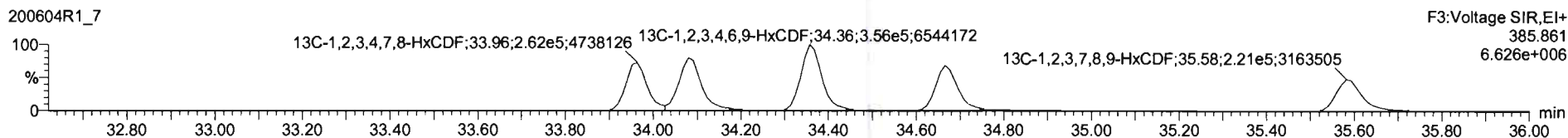
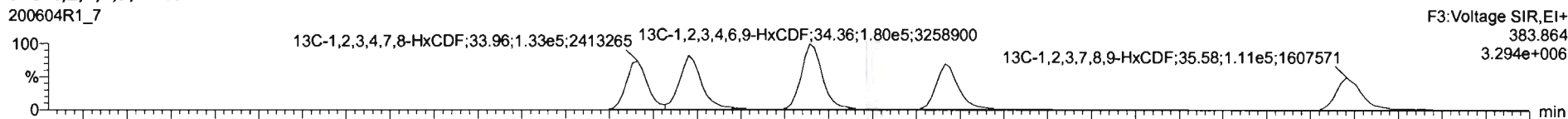
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_7, Date: 04-Jun-2020, Time: 12:54:39, ID: 2000964-03 PDI-148SC-A-01-02-200427 12.76, Description: PDI-148SC-A-01-02-200427

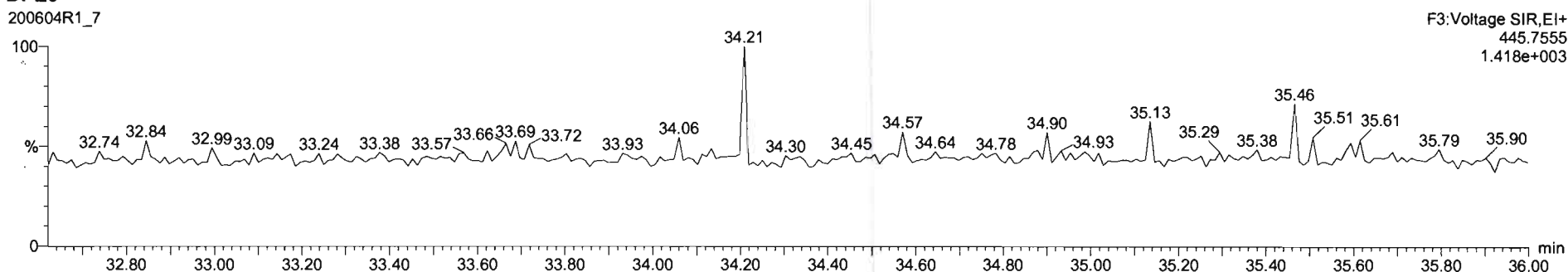
**1,2,3,4,7,8-HxCDF**



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

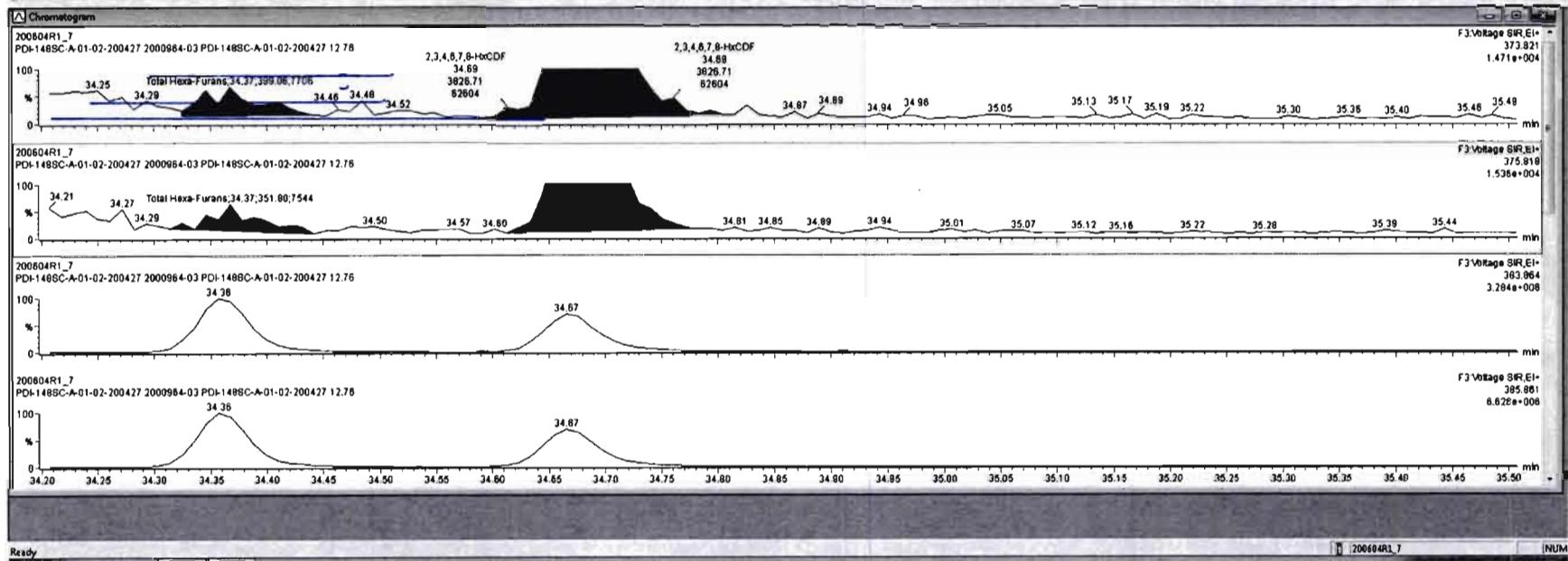


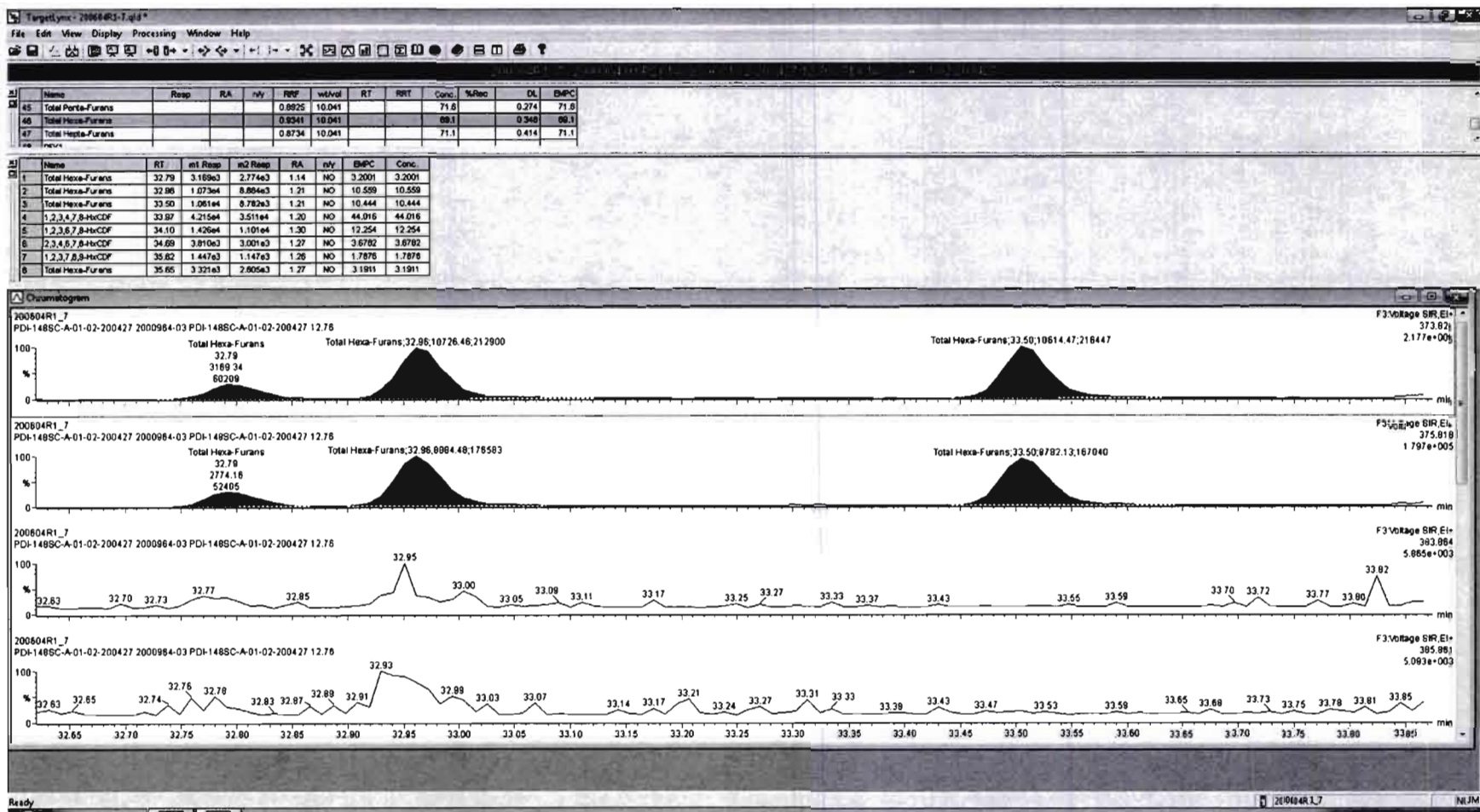
**DPE3**

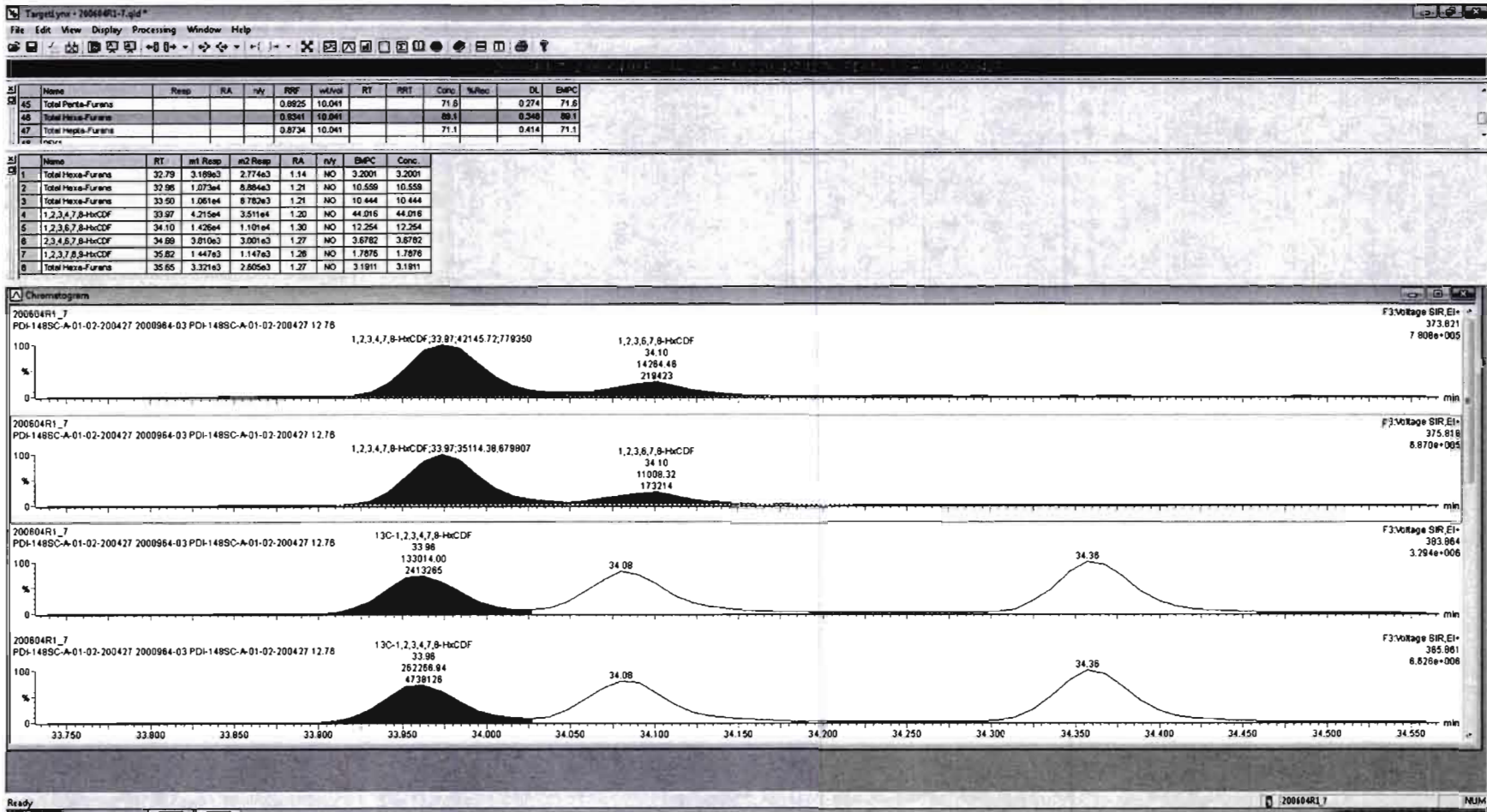


#	Name	Resp	RA	n/y	RF	wt/Avol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.8625	10.041			71.8	0.274	71.6	
46	Total Hexa-Furans				0.9341	10.041			80.3	0.348	80.3	
47	Total Hepta-Furans				0.8734	10.041			71.1	0.414	71.1	

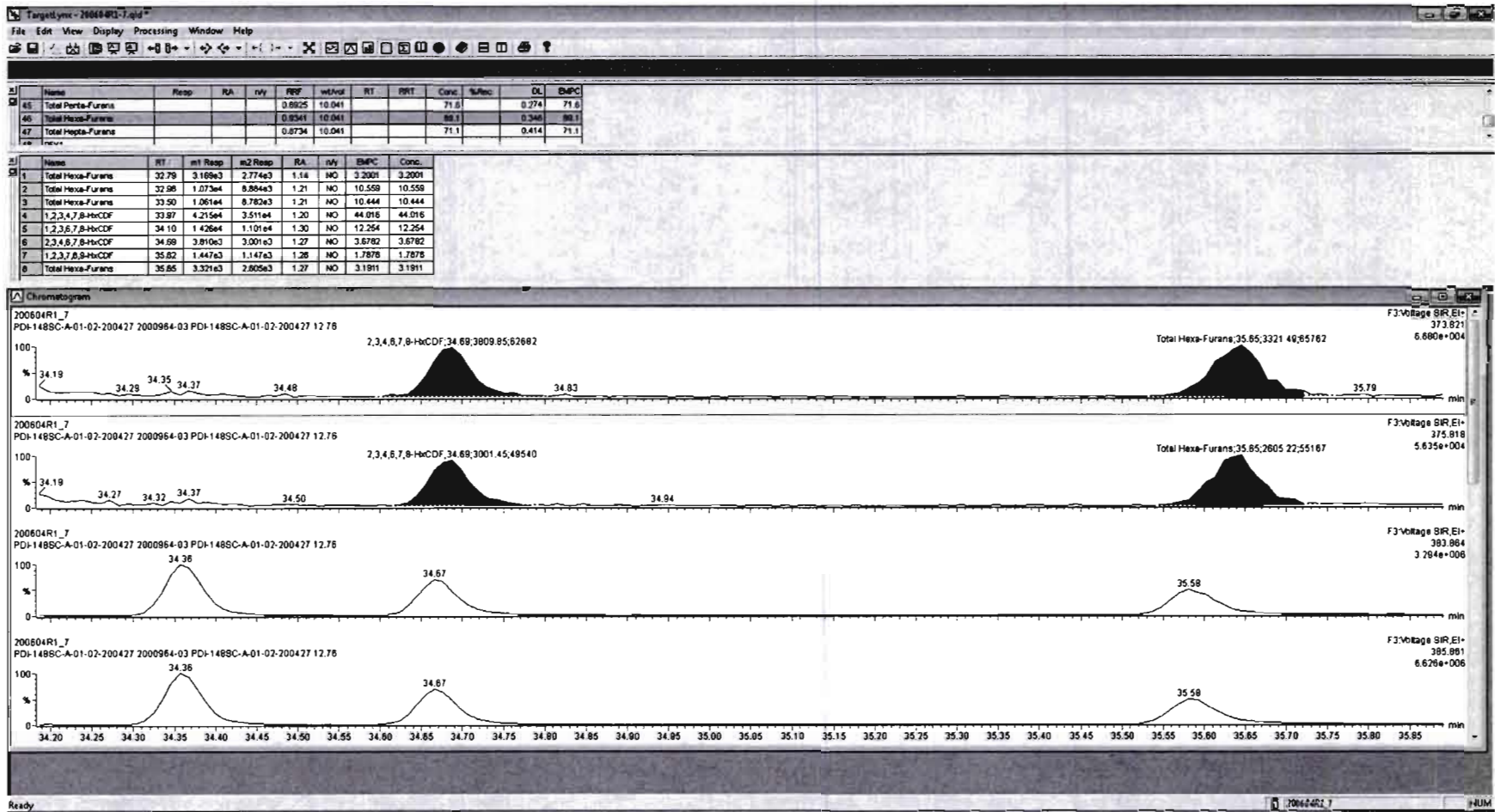
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.78	3.169e3	2.774e3	1.14	NO	3.2001	3.2001
2	Total Hexa-Furans	32.98	1.073e4	8.884e3	1.21	NO	10.558	10.558
3	Total Hexa-Furans	33.50	1.061e4	8.782e3	1.21	NO	10.444	10.444
4	1,2,3,4,7,8-HxCDF	33.97	4.215e4	3.495e4	1.21	NO	43.826	43.826
5	1,2,3,6,7,8-HxCDF	34.10	1.426e4	1.101e4	1.30	NO	12.256	12.256
6	Total Hexa-Furans	34.37	3.991e2	3.518e2	1.13	NO	0.40428	0.40428
7	2,3,4,6,7,8-HxCDF	34.89	3.827e3	2.922e3	1.31	NO	3.8447	3.8447
8	1,2,3,7,8,9-HxCDF	35.65	4.763e3	3.685e3	1.29	NO	5.8213	5.8213









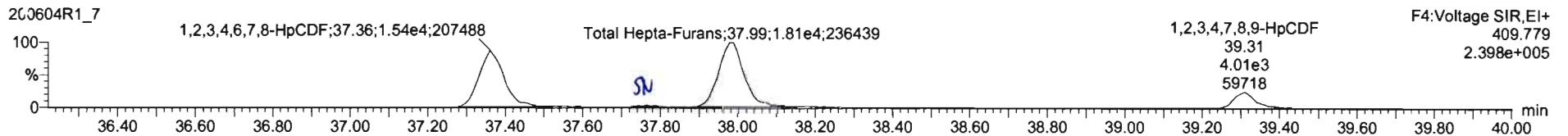
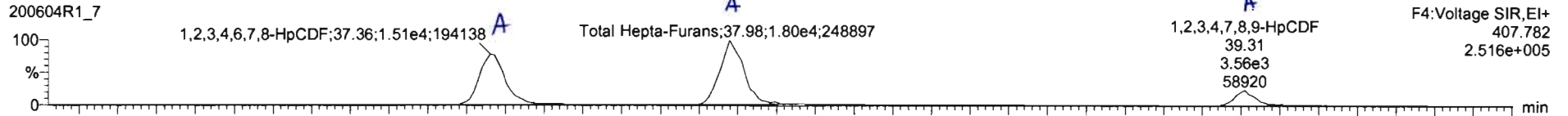


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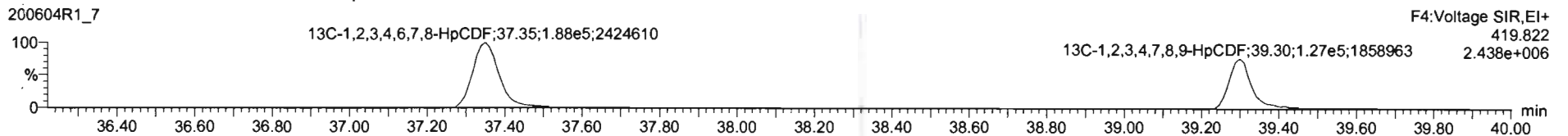
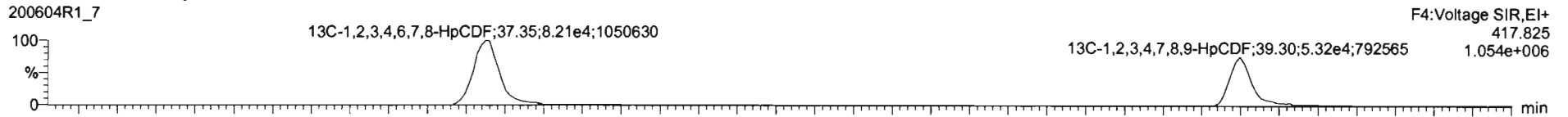
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_7, Date: 04-Jun-2020, Time: 12:54:39, ID: 2000964-03 PDI-148SC-A-01-02-200427 12.76, Description: PDI-148SC-A-01-02-200427

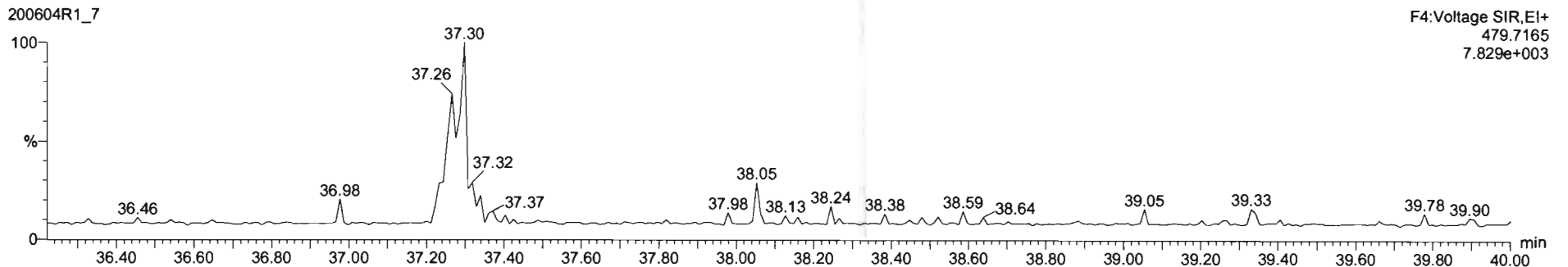
1,2,3,4,6,7,8-HpCDF



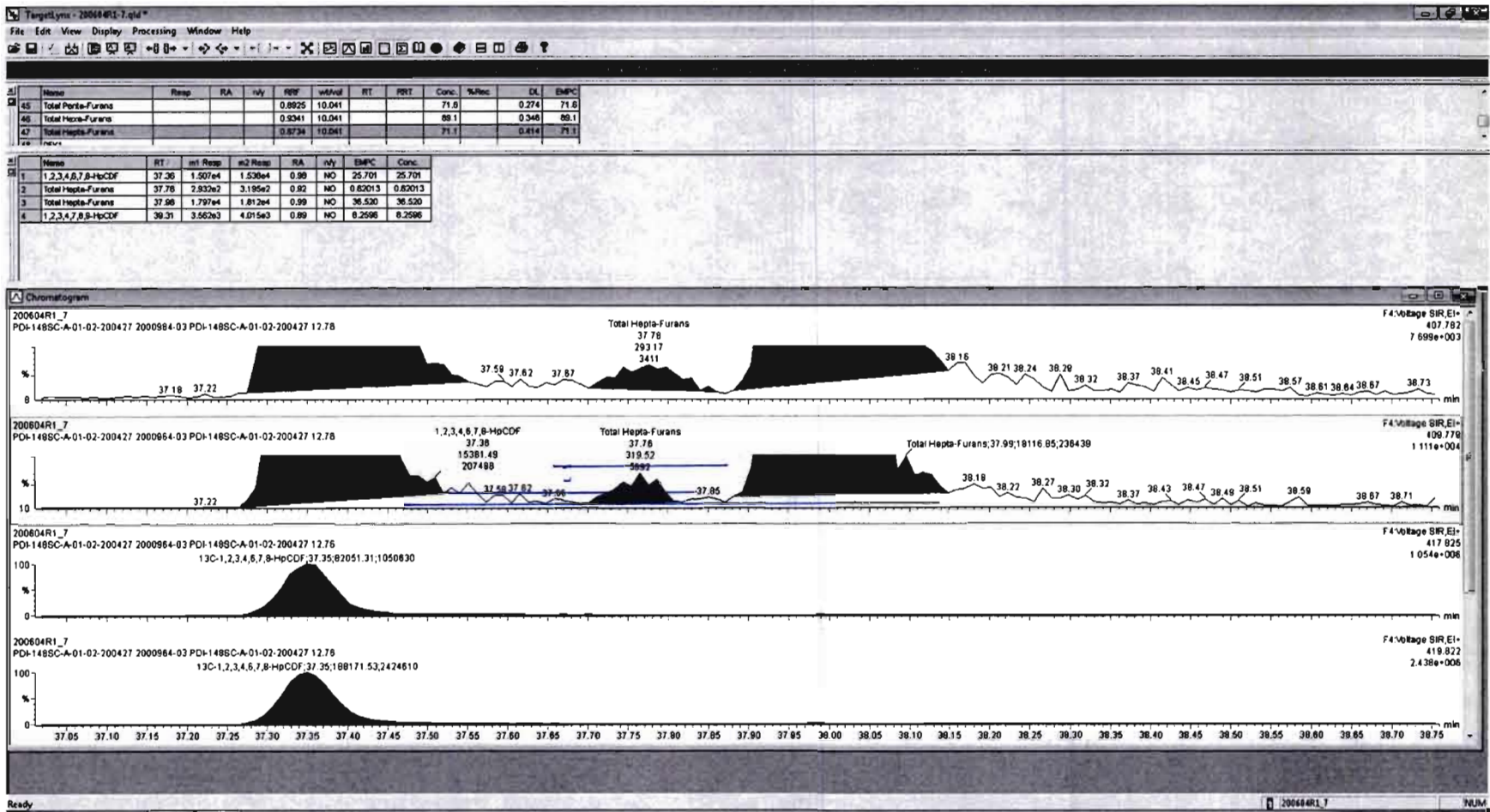
13C-1,2,3,4,6,7,8-HpCDF

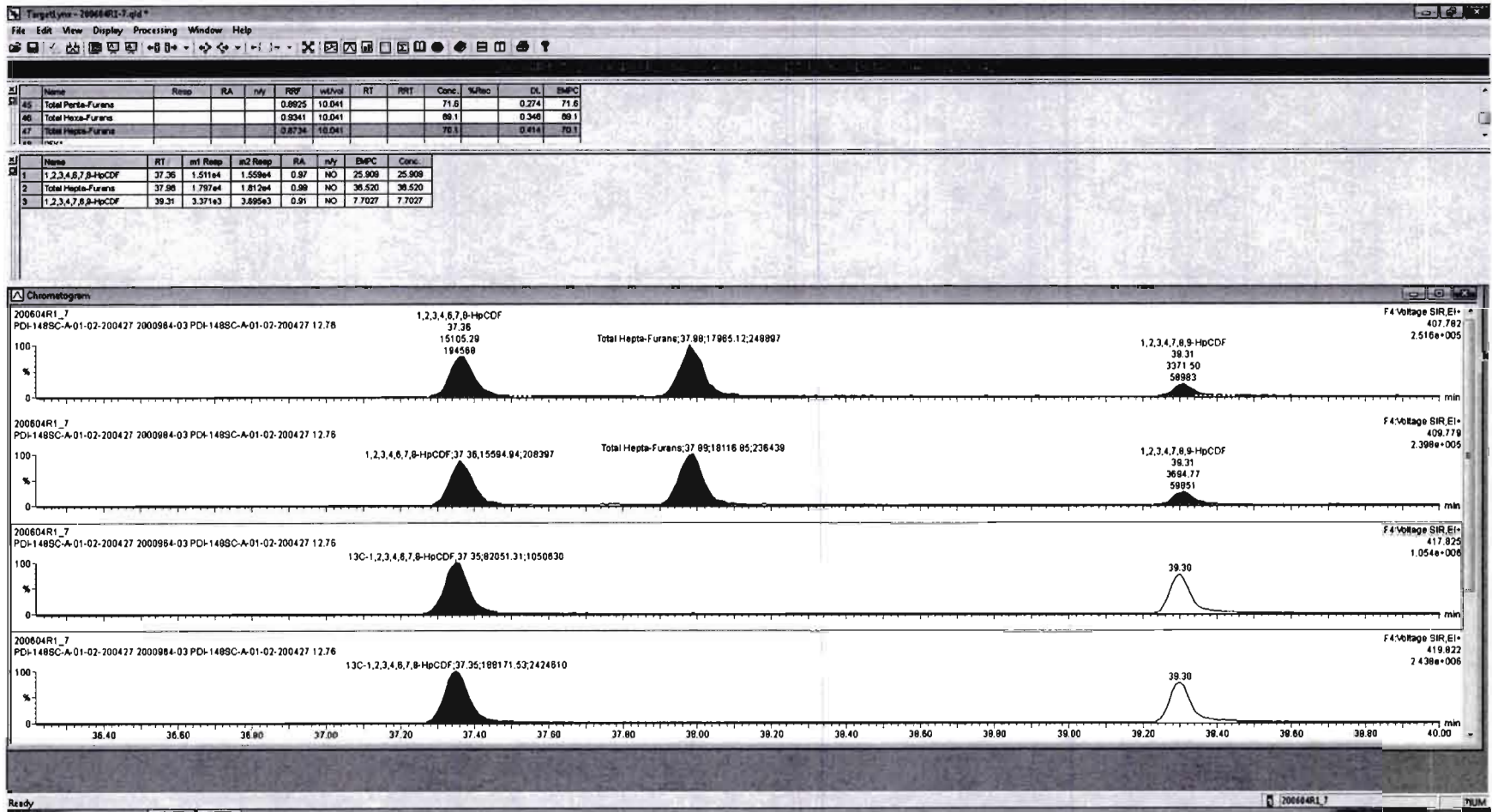


DPE4









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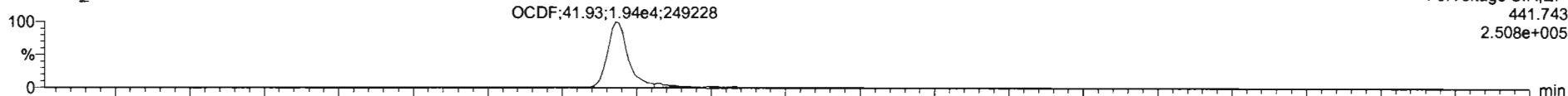
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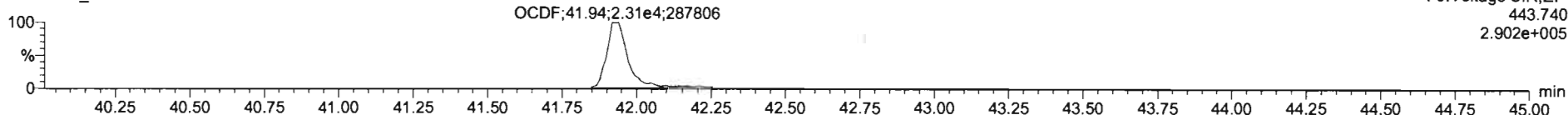
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**OCDF**

200604R1\_7

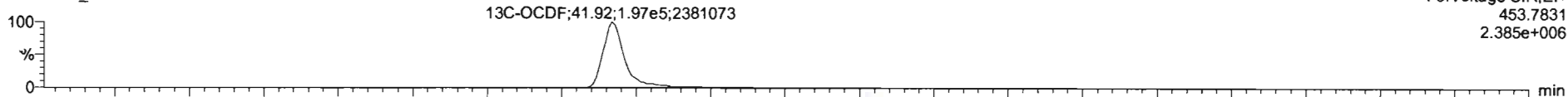


200604R1\_7

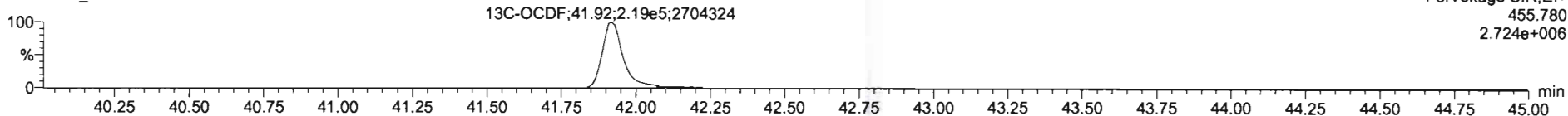


**13C-OCDF**

200604R1\_7

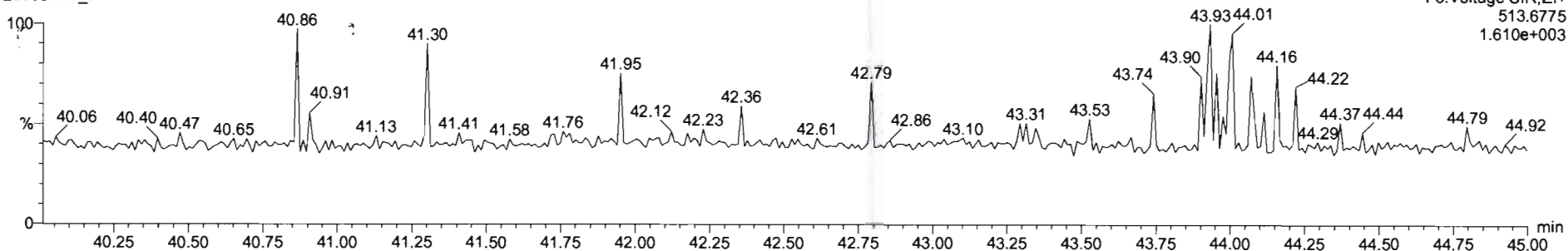


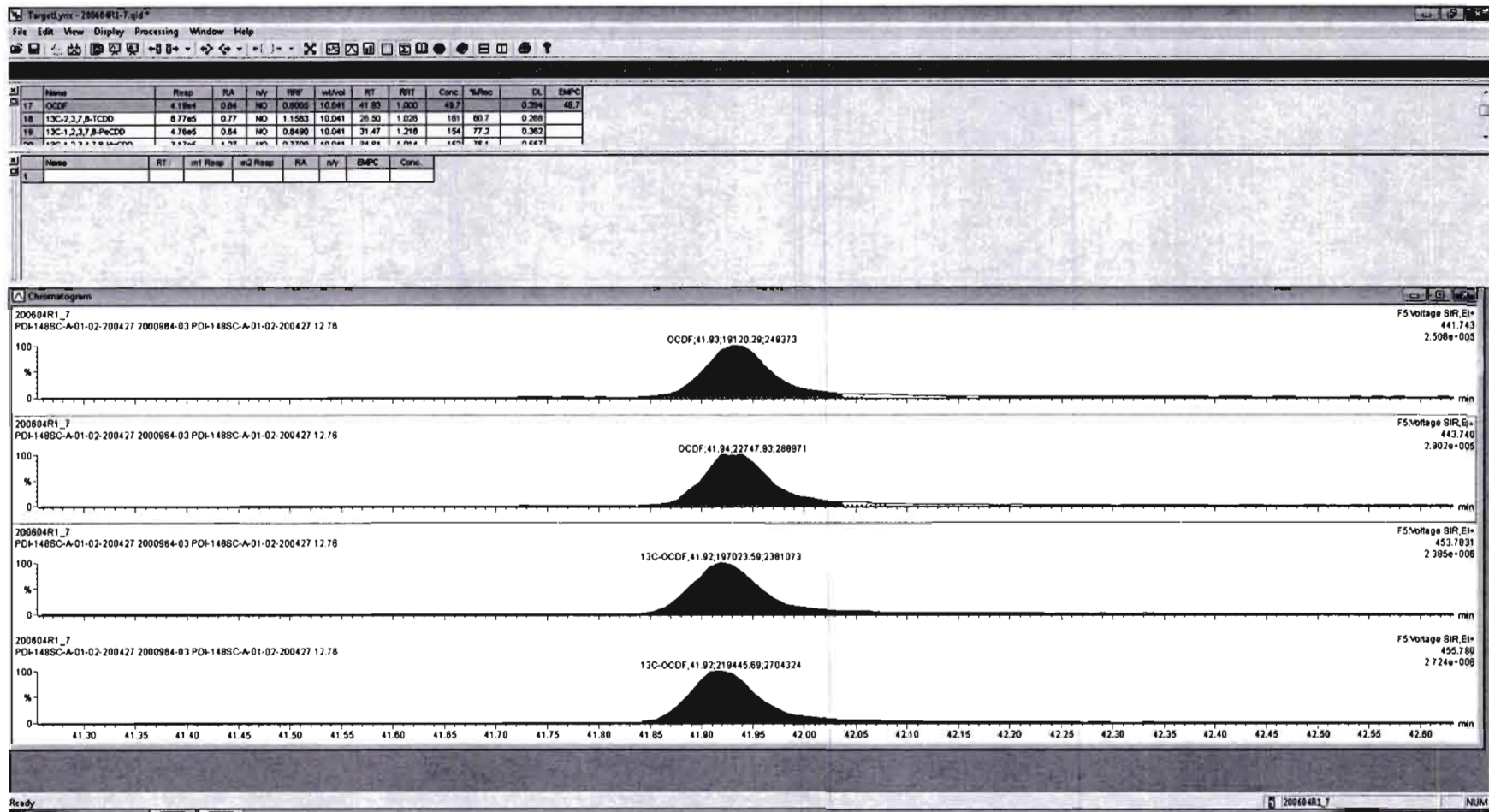
200604R1\_7



**DPE5**

200604R1\_7





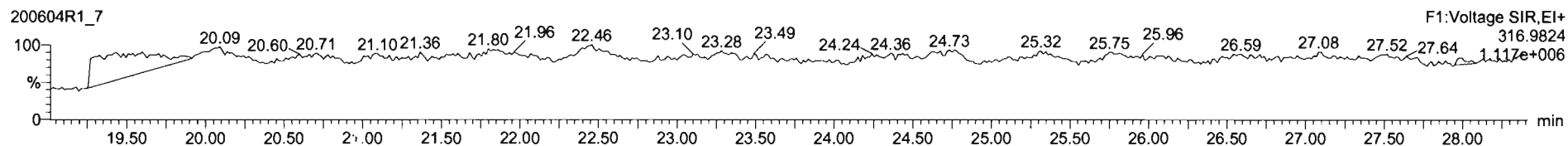
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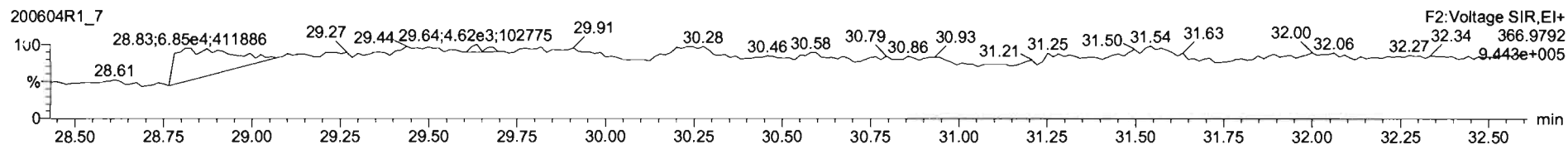
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Name: 200604R1\_7, Date: 04-Jun-2020, Time: 12:54:39, ID: 2000964-03 PDI-148SC-A-01-02-200427 12.76, Description: PDI-148SC-A-01-02-200427

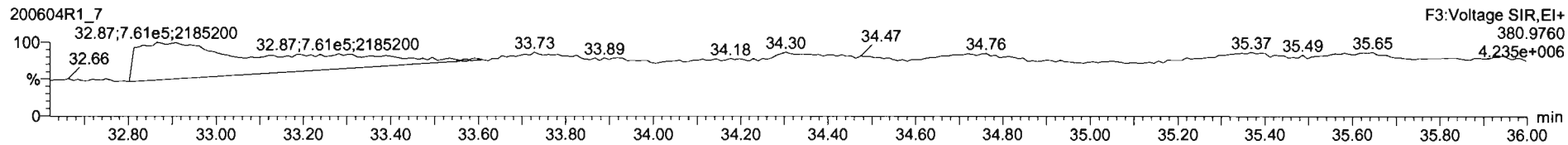
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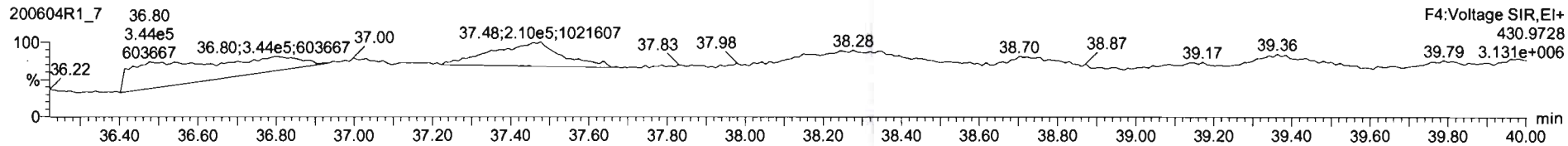
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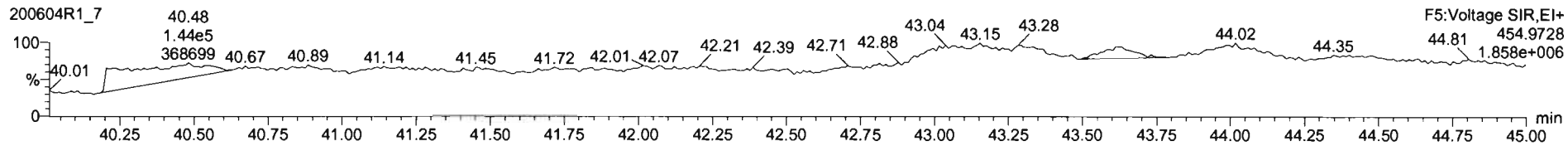
**PFK3**



**PFK4**



**PFK5**





Dataset: U:\VG12.PRO\Results\200604R1\200604R1-8B.qld

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Printed: Wednesday, July 08, 2020 9:33:48 AM Pacific Daylight Time

*YN 07/08/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

*CT 07/16/2020*

Name: 200604R1\_8, Date: 04-Jun-2020, Time: 13:40:54, ID: 2000964-04 PDI-148SC-A-02-03-200427 12.48, Description: PDI-148SC-A-02-03-200427

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1	1 2,3,7,8-TCDD												0.0609	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.020	31.473		1.001				0.0967	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.020	34.836		1.000				0.103	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.020	34.932		1.000				0.102	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.020	35.220		1.000				0.110	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.864	10.020	38.757		1.000				0.297	
7	7 OCDD	3.89e3	0.80	NO	0.914	10.020	41.717	41.72	1.000	1.000	3.1790		0.191	3.18
8	8 2,3,7,8-TCDF			NO	0.751	10.020	25.627		1.001				0.0360	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.020	30.190		1.001				0.0734	
10	10 2,3,4,7,8-PeCDF												0.0691	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.020	33.942		1.000				0.0655	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.020	34.079		1.000				0.0587	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.020	34.690		1.001				0.0677	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.020	35.571		1.000				0.103	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.020	37.376		1.001				0.0652	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.020	39.288		1.000				0.0772	
17	17 OCDF			NO	0.806	10.020	41.908		1.000				0.114	
18	18 13C-2,3,7,8-TCDD	8.05e5	0.75	NO	1.16	10.020	26.522	26.48	1.026	1.025	187.22	93.8	0.237	
19	19 13C-1,2,3,7,8-PeCDD	5.64e5	0.63	NO	0.849	10.020	31.711	31.45	1.227	1.217	178.47	89.4	0.274	
20	20 13C-1,2,3,4,7,8-HxCDD	3.78e5	1.27	NO	0.779	10.020	34.830	34.83	1.014	1.014	169.33	84.8	0.765	
21	21 13C-1,2,3,6,7,8-HxCDD	4.78e5	1.26	NO	1.02	10.020	34.944	34.93	1.017	1.017	164.22	82.3	0.586	
22	22 13C-1,2,3,7,8,9-HxCDD	4.31e5	1.24	NO	0.903	10.020	35.215	35.21	1.025	1.025	166.87	83.6	0.660	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.689	10.020	38.739	38.74	1.128	1.128	153.88	77.1	0.638	
24	24 13C-OCDD	5.34e5	0.89	NO	0.652	10.020	41.761	41.72	1.216	1.215	286.02	71.6	0.778	
25	25 13C-2,3,7,8-TCDF	1.00e6	0.78	NO	1.06	10.020	25.564	25.60	0.989	0.991	170.75	85.5	0.293	
26	26 13C-1,2,3,7,8-PeCDF	8.50e5	1.60	NO	0.838	10.020	30.093	30.17	1.165	1.168	182.57	91.5	0.542	
27	27 13C-2,3,4,7,8-PeCDF	8.40e5	1.61	NO	0.817	10.020	31.047	31.15	1.202	1.205	185.26	92.8	0.556	
28	28 13C-1,2,3,4,7,8-HxCDF	4.98e5	0.51	NO	1.01	10.020	33.961	33.94	0.989	0.988	172.63	86.5	0.813	
29	29 13C-1,2,3,6,7,8-HxCDF	5.94e5	0.51	NO	1.17	10.020	34.085	34.07	0.992	0.992	177.75	89.1	0.702	
30	30 13C-2,3,4,6,7,8-HxCDF	5.08e5	0.52	NO	1.02	10.020	34.659	34.65	1.009	1.009	173.40	86.9	0.802	
31	31 13C-1,2,3,7,8,9-HxCDF	4.12e5	0.51	NO	0.860	10.020	35.558	35.57	1.035	1.036	167.32	83.8	0.954	



Dataset: U:\VG12.PRO\Results\200604R1\200604R1-8B.qld

Last Altered: Wednesday, July 08, 2020 9:29:24 AM Pacific Daylight Time

Printed: Wednesday, July 08, 2020 9:33:48 AM Pacific Daylight Time

Name: 200604R1\_8, Date: 04-Jun-2020, Time: 13:40:54, ID: 2000964-04 PDI-148SC-A-02-03-200427 12.48, Description: PDI-148SC-A-02-03-200427

#	Name	Resp	RA	n/y	RRF	wi/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.82e5	0.42	NO	0.774	10.020	37.307	37.34	1.086	1.087	172.21	86.3	0.572	
33	13C-1,2,3,4,7,8,9-HpCDF	2.40e5	0.42	NO	0.521	10.020	39.336	39.29	1.145	1.144	160.94	80.6	0.850	
34	13C-OCDF	6.08e5	0.91	NO	0.746	10.020	41.933	41.91	1.221	1.220	284.85	71.4	0.495	
35	37Cl-2,3,7,8-TCDD	3.13e5			1.04	10.020	26.553	26.51	1.028	1.026	81.261	102	0.0482	
36	13C-1,2,3,4-TCDD	7.42e5	0.80	NO	1.00	10.020	25.890	25.84	1.000	1.000	199.61	100	0.274	
37	13C-1,2,3,4-TCDF	1.11e6	0.78	NO	1.00	10.020	24.360	24.15	1.000	1.000	199.61	100	0.310	
38	13C-1,2,3,4,6,9-HxCDF	5.72e5	0.50	NO	1.00	10.020	34.420	34.35	1.000	1.000	199.61	100	0.820	
39	39 Total Tetra-Dioxins				0.888	10.020	24.620		0.000		0.14922		0.0608	0.149
40	40 Total Penta-Dioxins				0.908	10.020	29.960		0.000				0.0523	
41	41 Total Hexa-Dioxins				0.892	10.020	33.635		0.000		0.32616		0.110	0.326
42	42 Total Hepta-Dioxins				0.864	10.020	37.640		0.000				0.100	
43	43 Total Tetra-Furans				0.751	10.020	23.610		0.000				0.0145	
44	44 1st Func. Penta-Furans				0.893	10.020	27.580		0.000				0.00900	
45	45 Total Penta-Furans				0.893	10.020	29.275		0.000				0.0129	
46	46 Total Hexa-Furans				0.934	10.020	33.555		0.000				0.0405	
47	47 Total Hepta-Furans				0.873	10.020	37.835		0.000				0.0398	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-8B.qld

Last Altered: Wednesday, July 08, 2020 9:29:24 AM Pacific Daylight Time

Printed: Wednesday, July 08, 2020 9:33:48 AM Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1\_8, Date: 04-Jun-2020, Time: 13:40:54, ID: 2000964-04 PDI-148SC-A-02-03-200427 12.48, Description: PDI-148SC-A-02-03-200427

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.33	3.701e3	4.595e3	2.320e2	3.027e2	0.77	NO	5.347e2	0.14922	0.14922	0.0608

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.33	6.500e3	6.077e3	3.286e2	2.972e2	1.11	NO	6.258e2	0.32616	0.32616	0.110

**Hepta-Dioxins**

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

**Tetra-Furans**

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

**Penta-Furans function 1**

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

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-8B.qld

Last Altered: Wednesday, July 08, 2020 9:29:24 AM Pacific Daylight Time  
Printed: Wednesday, July 08, 2020 9:33:48 AM Pacific Daylight Time

Name: 200604R1\_8, Date: 04-Jun-2020, Time: 13:40:54, ID: 2000964-04 PDI-148SC-A-02-03-200427 12.48, Description: PDI-148SC-A-02-03-200427

**Penta-Furans**

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

**Hexa-Furans**

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

**Hepta-Furans**

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

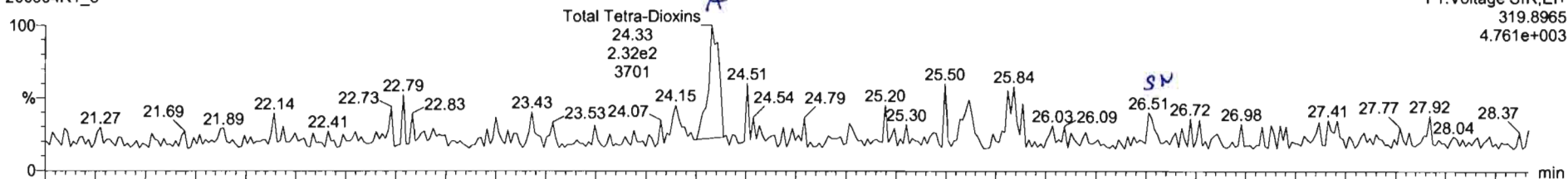
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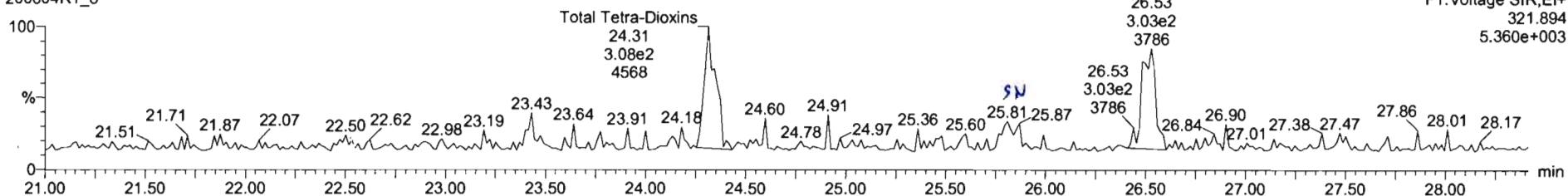
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**2,3,7,8-TCDD**

200604R1\_8

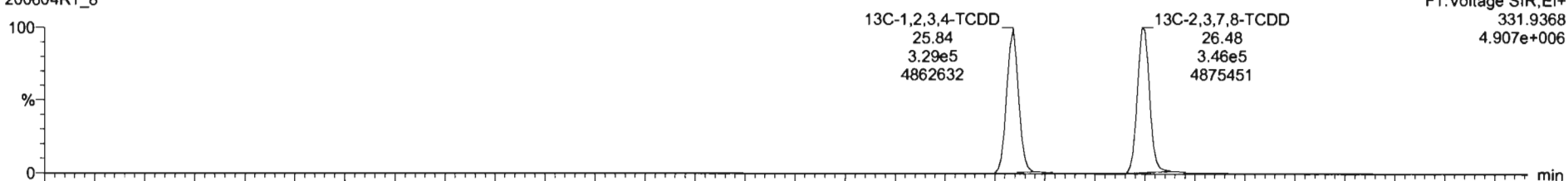


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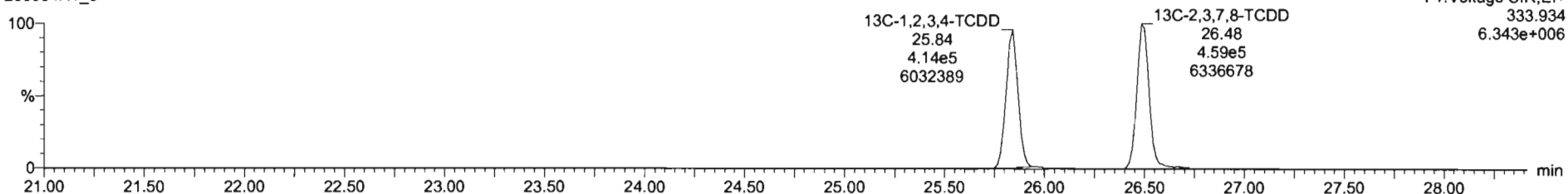


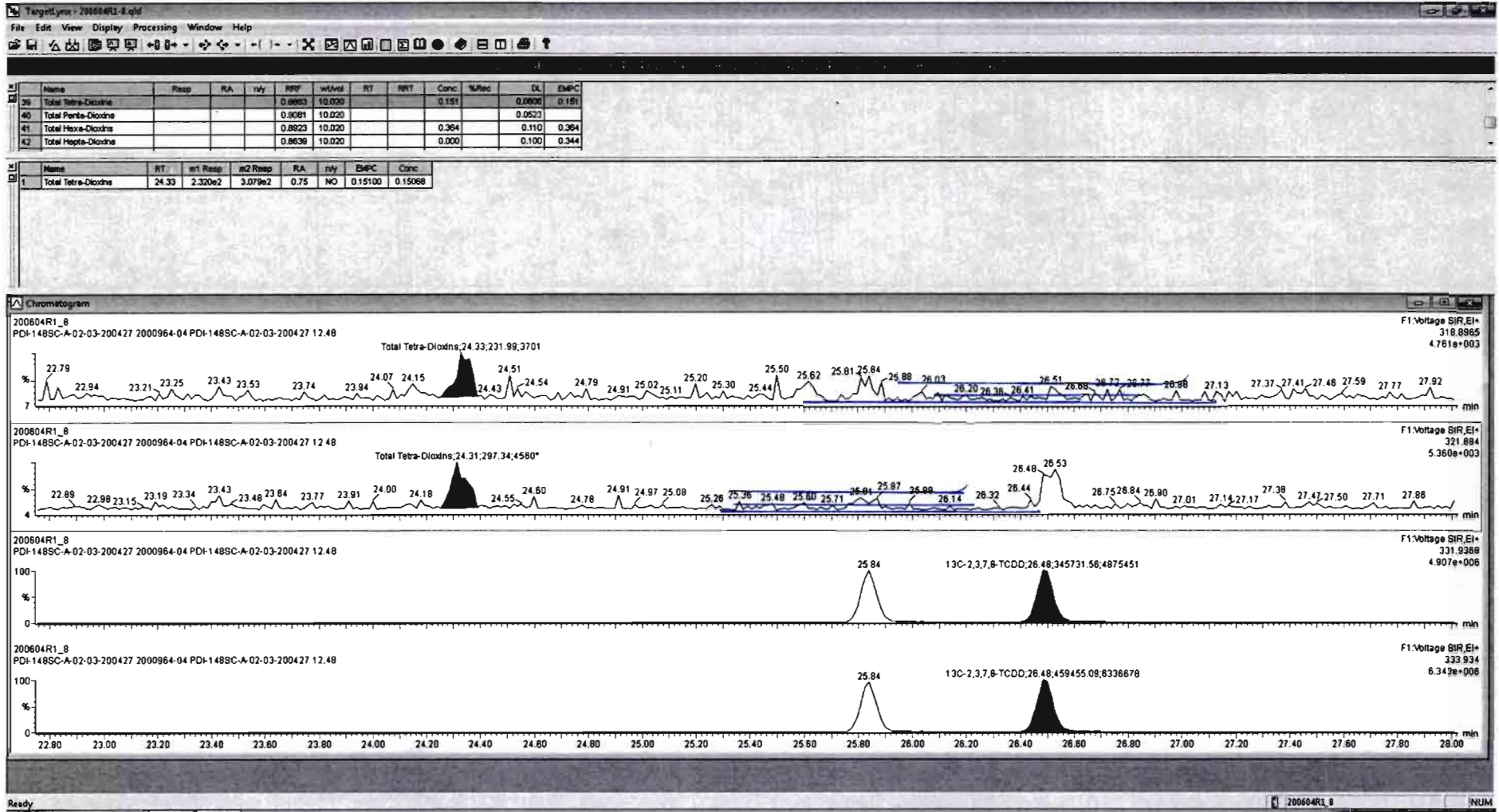
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200604R1\_8



200604R1\_8





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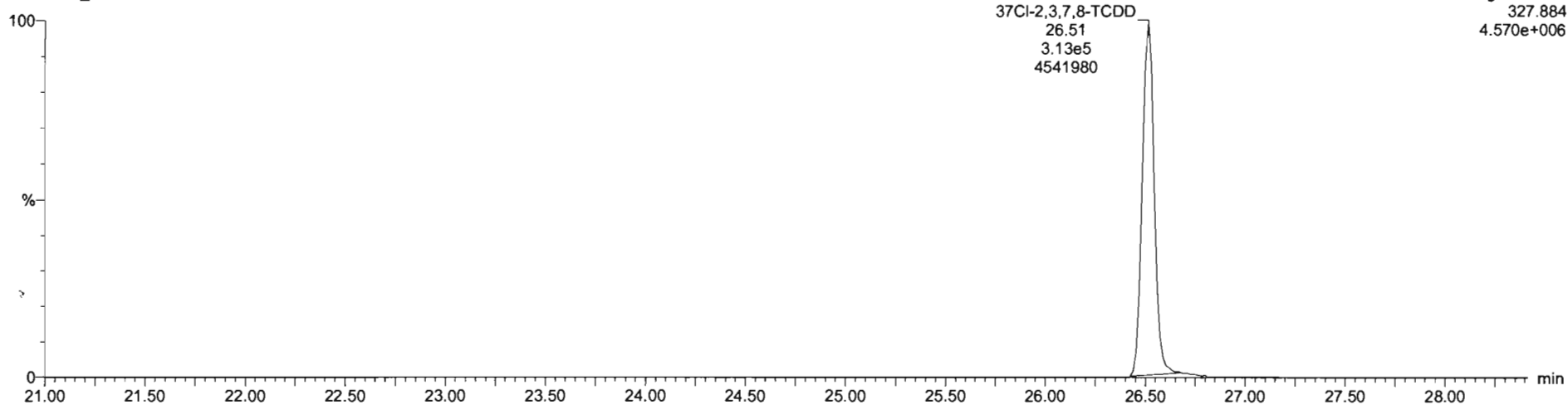
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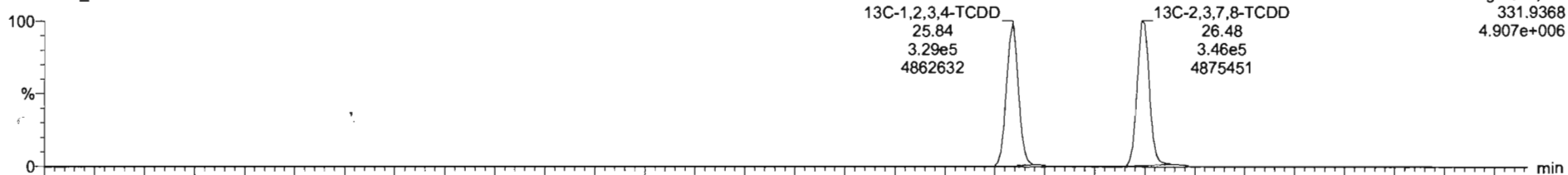
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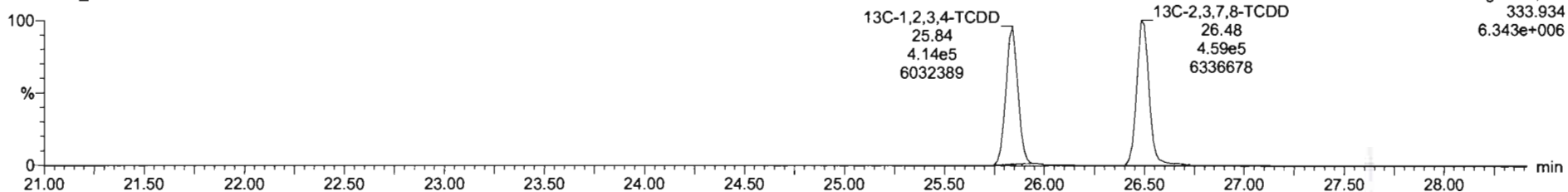


**13C-1,2,3,4-TCDD**

200604R1\_8



200604R1\_8





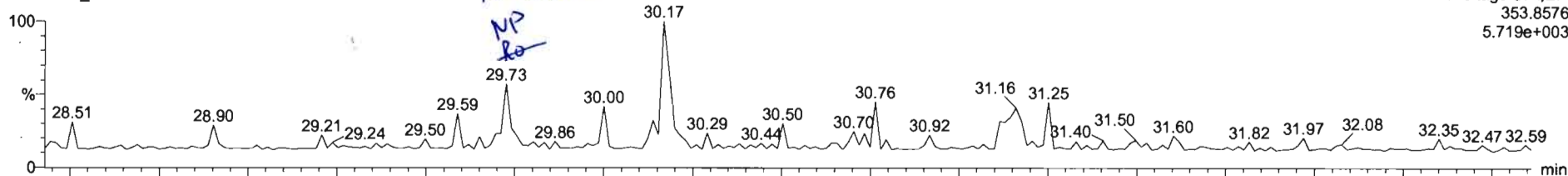
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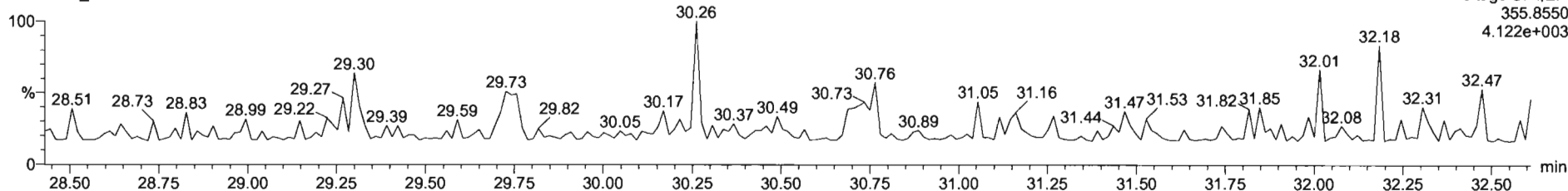
**1,2,3,7,8-PeCDD**

200604R1\_8



F2: Voltage SIR, EI+  
353.8576  
5.719e+003

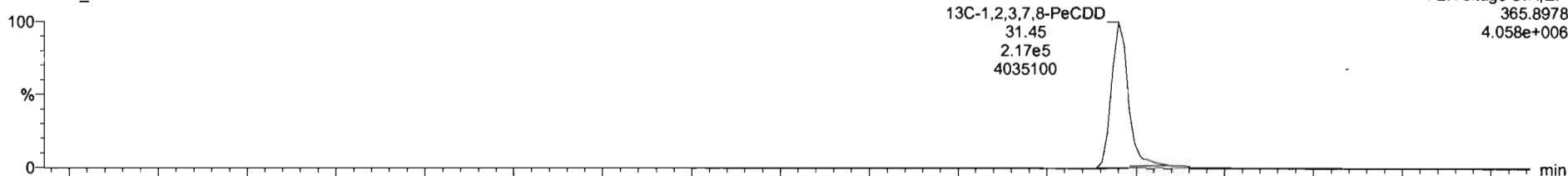
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4.122e+003

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

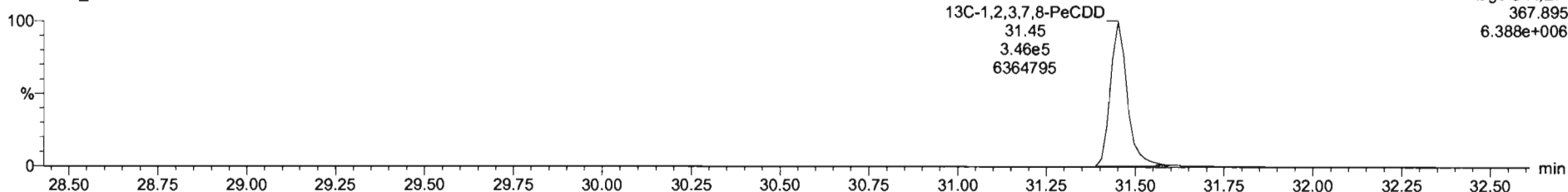
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2.17e5  
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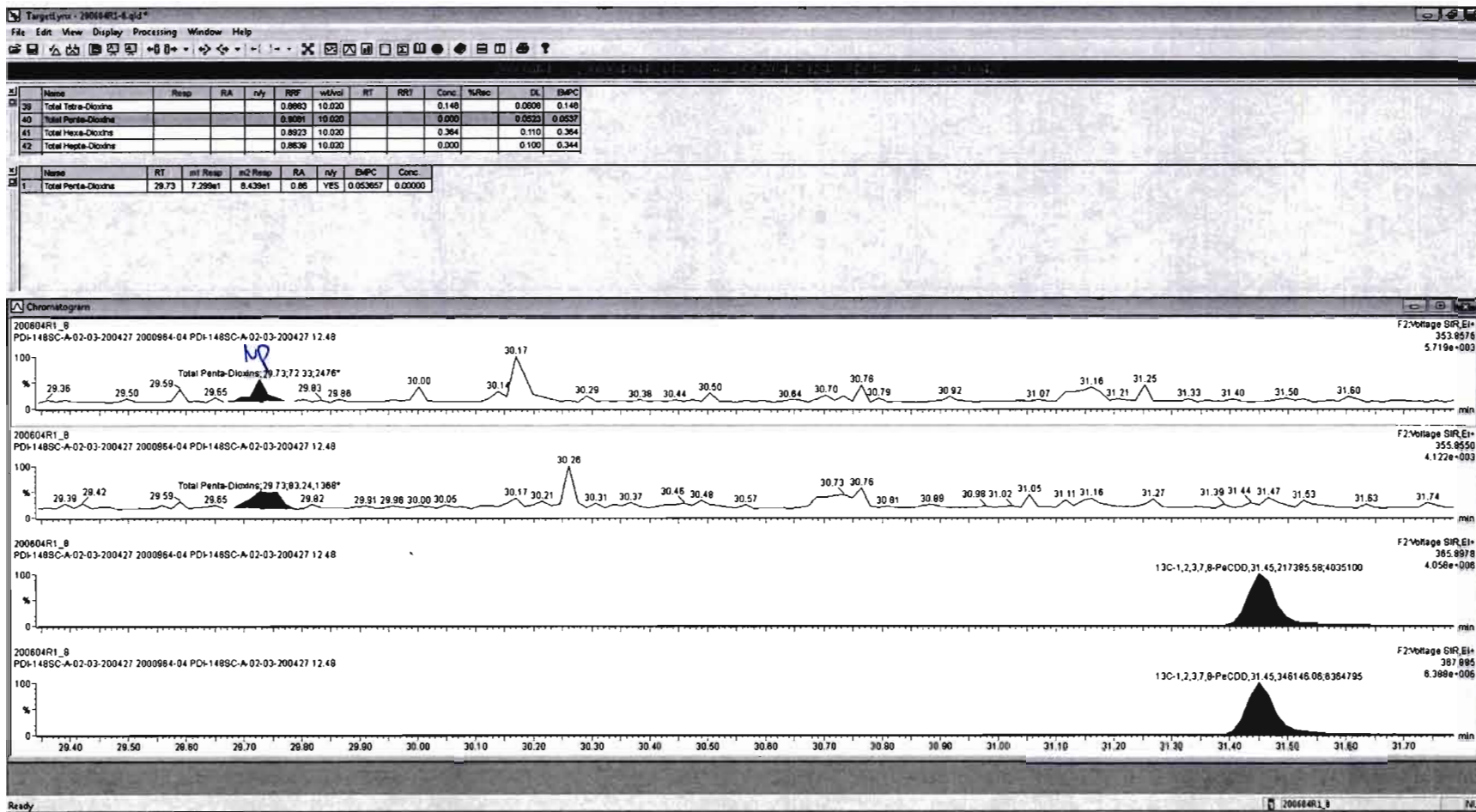
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365.8978  
4.058e+006

200604R1\_8



13C-1,2,3,7,8-PeCDD  
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3.46e5  
6364795

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6.388e+006



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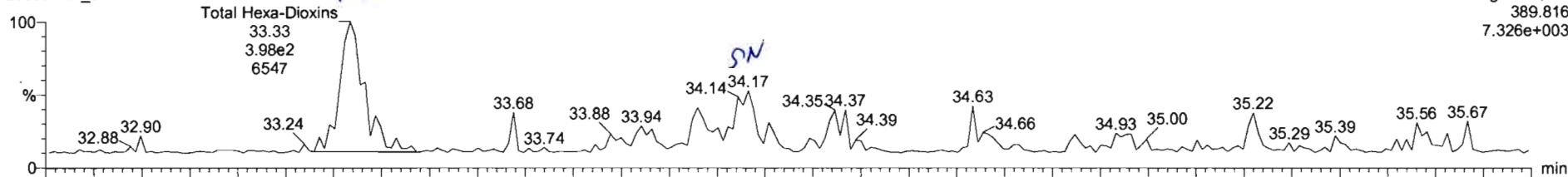
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HN 06/08/2020

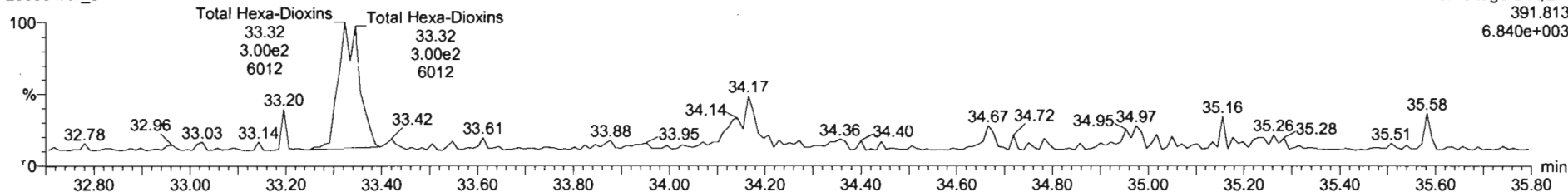
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1,2,3,4,7,8-HxCDD

200604R1\_8



200604R1\_8

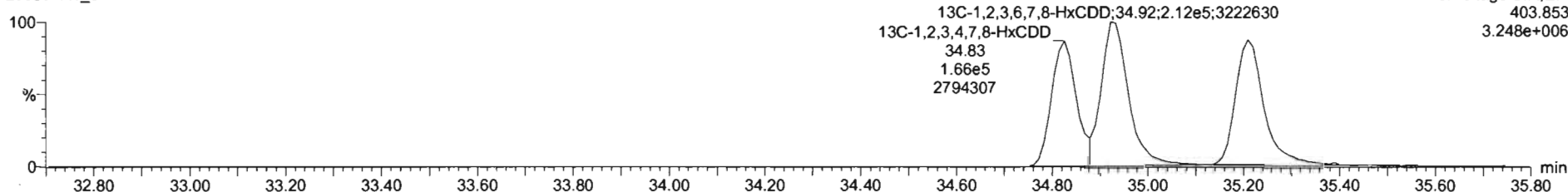


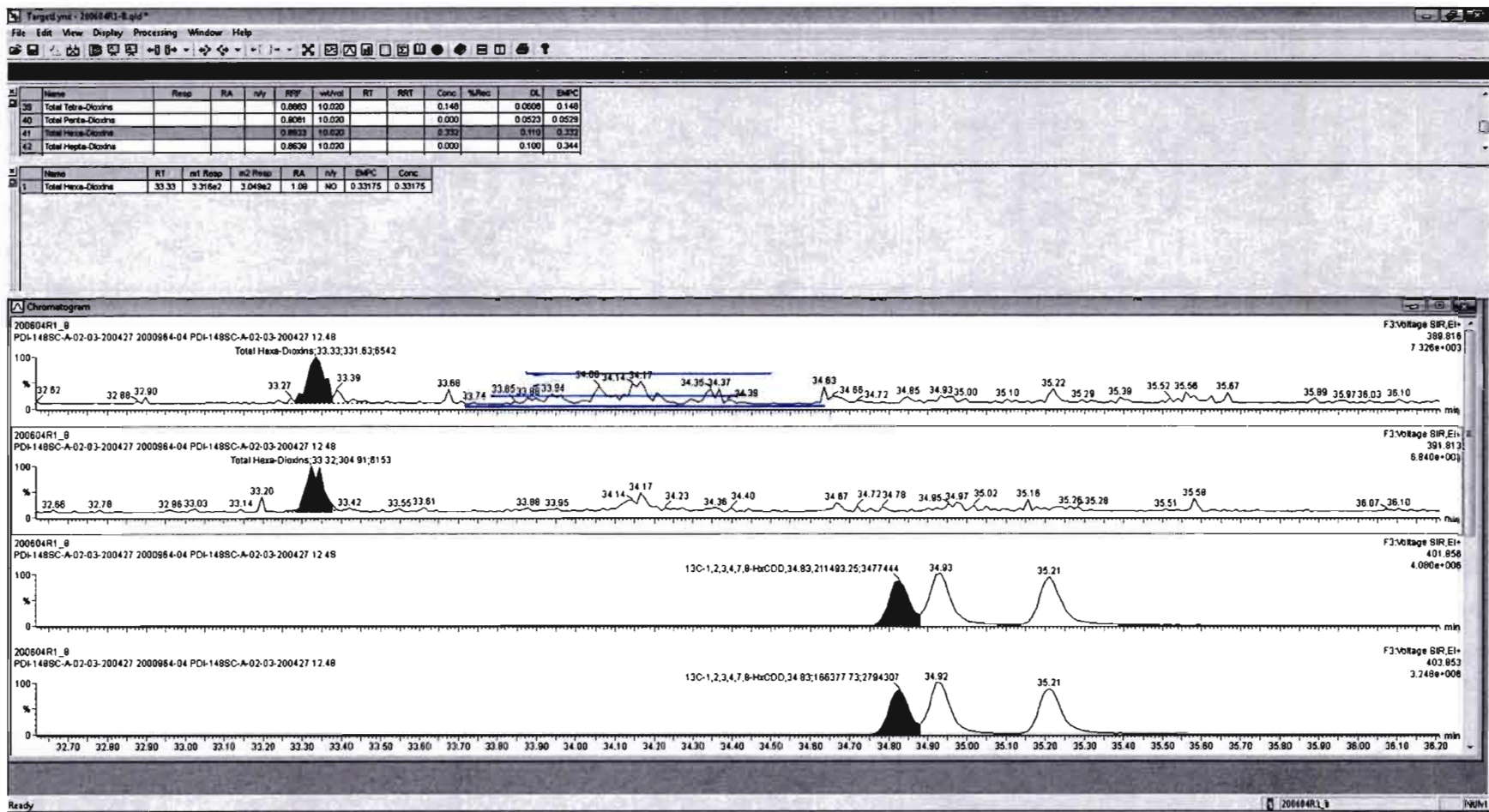
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200604R1\_8





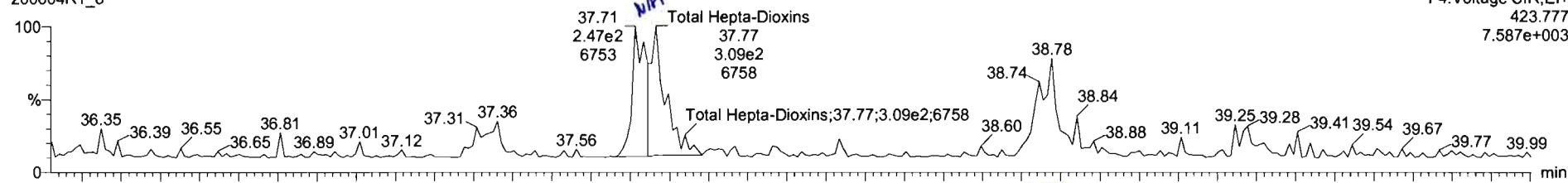
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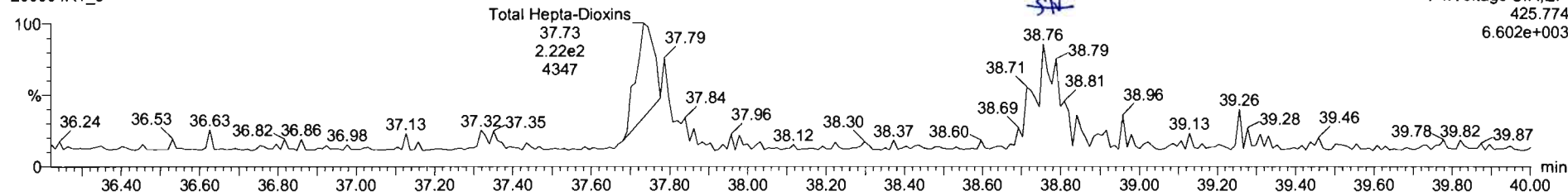
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1,2,3,4,6,7,8-HpCDD

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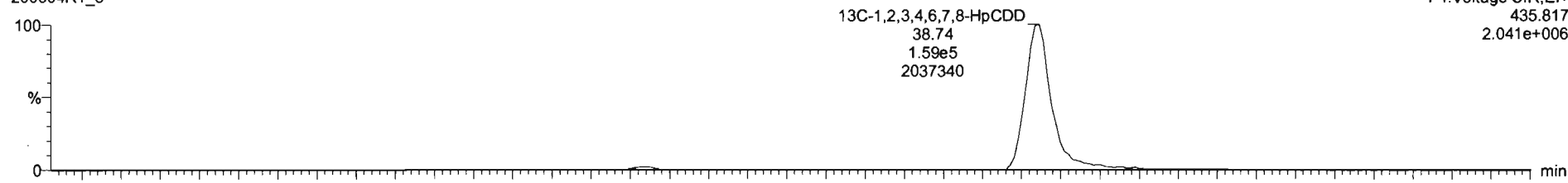


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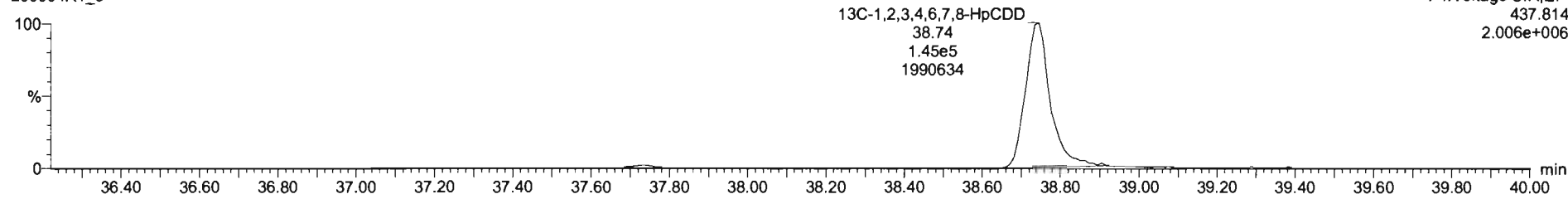


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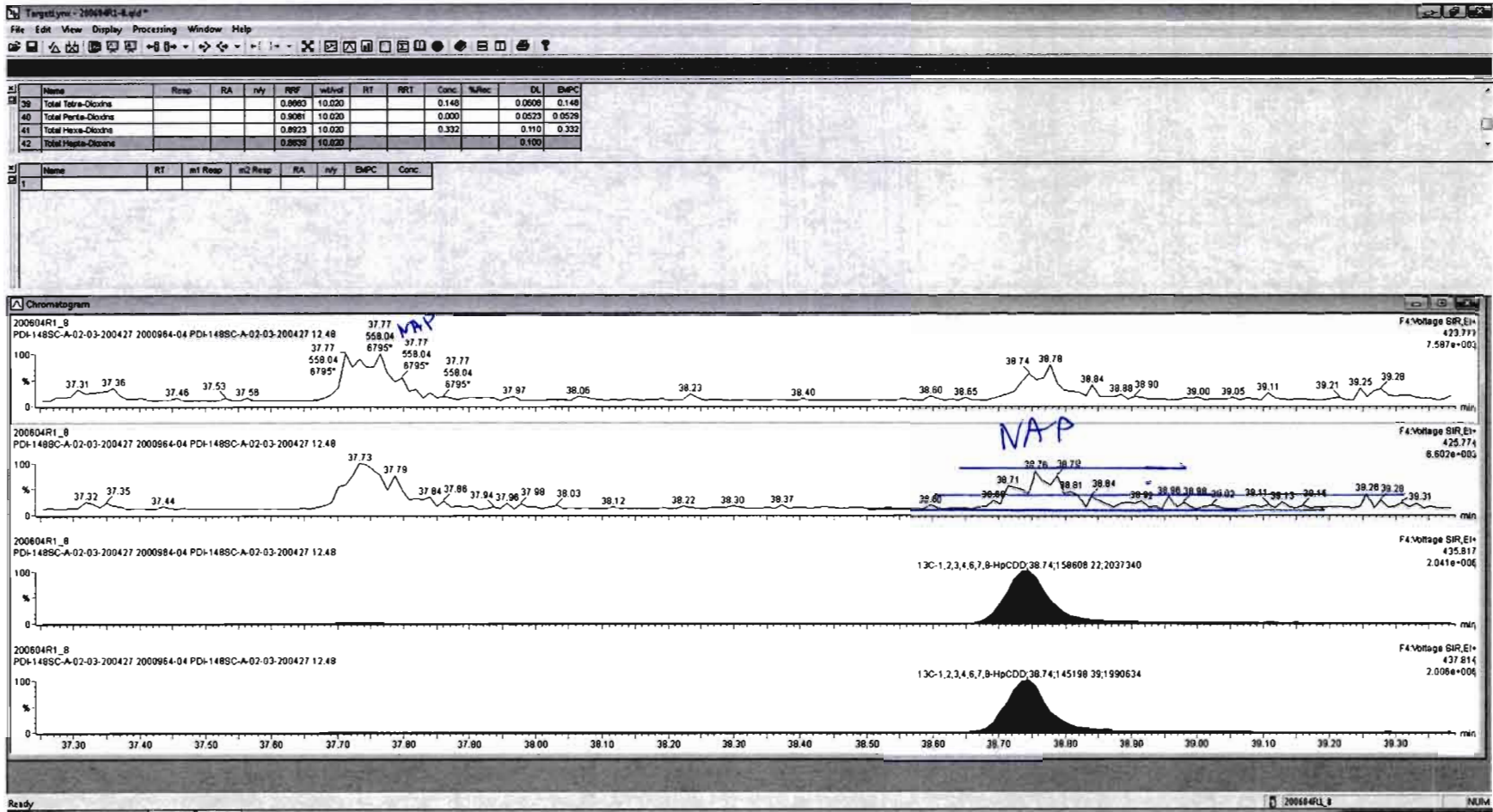
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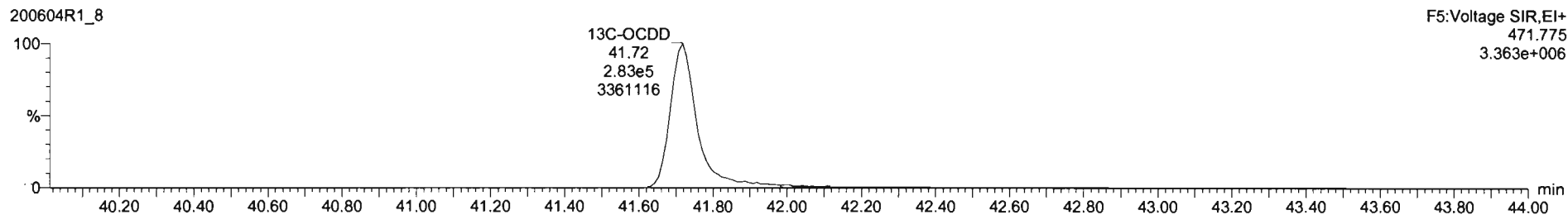
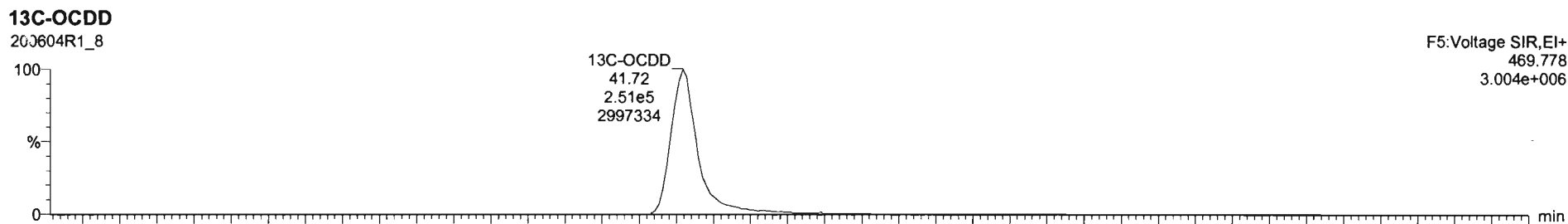
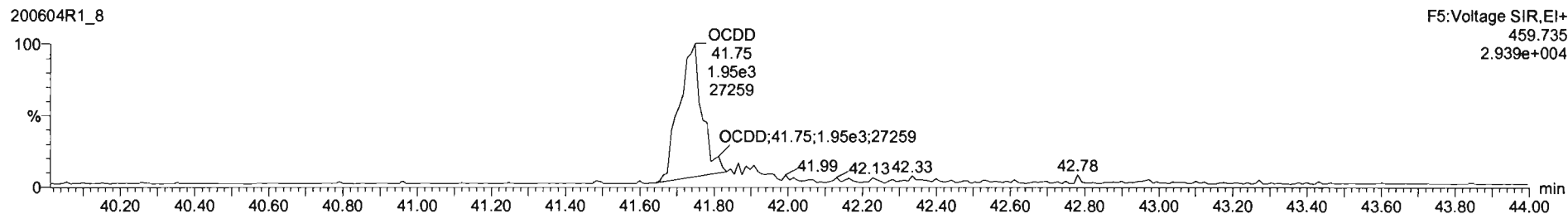
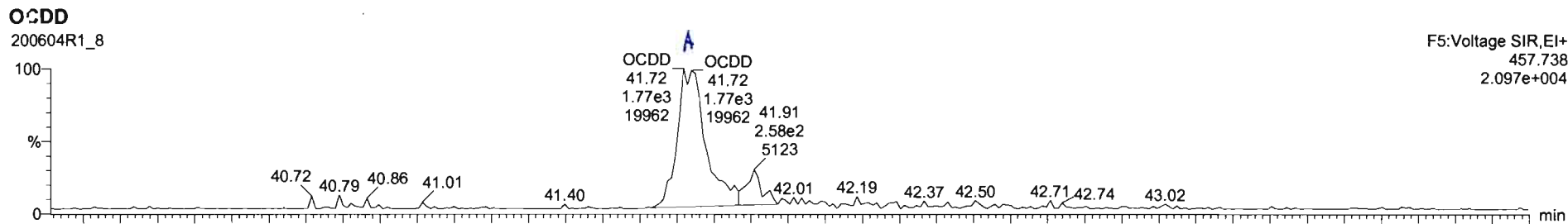


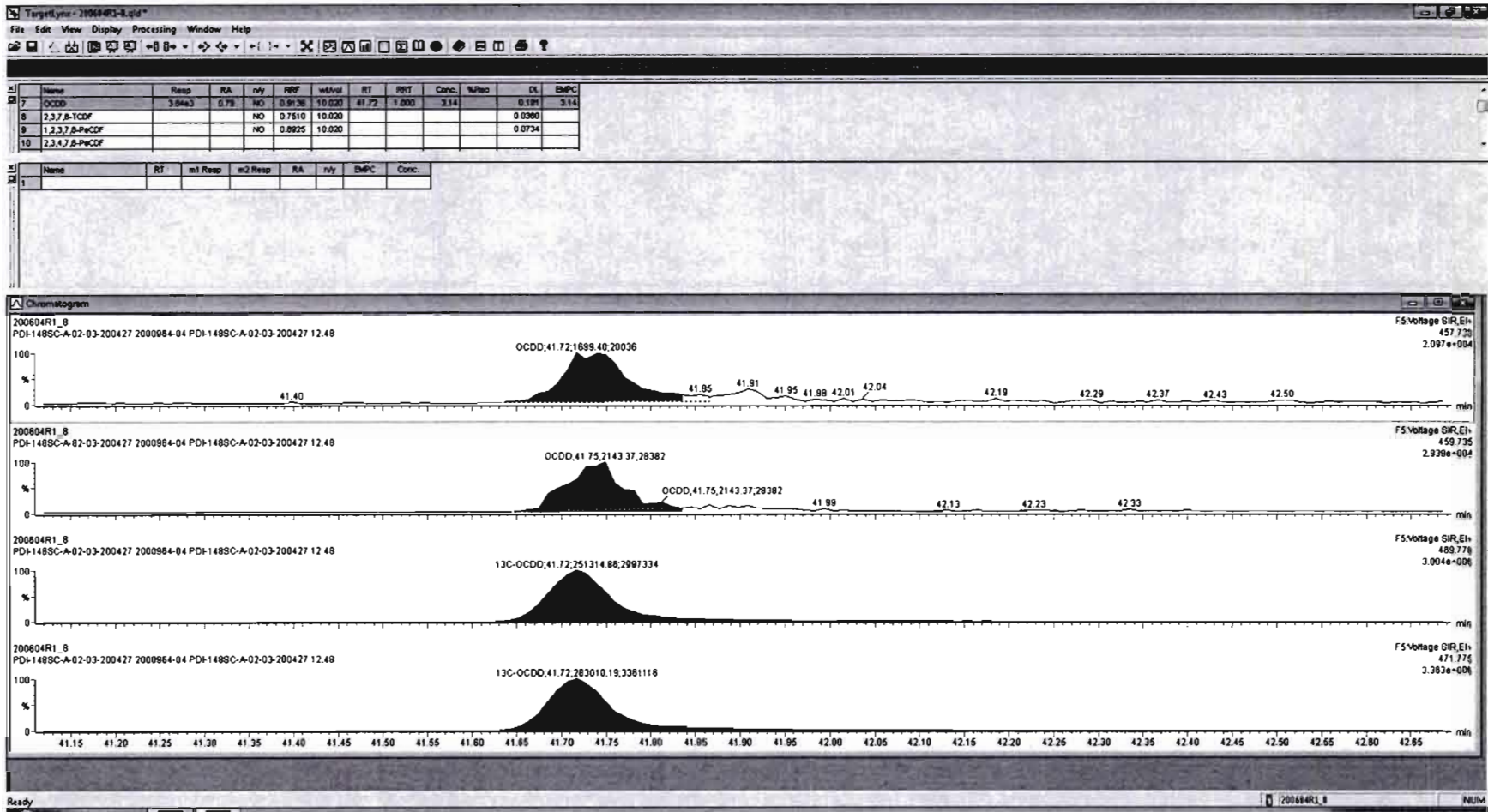


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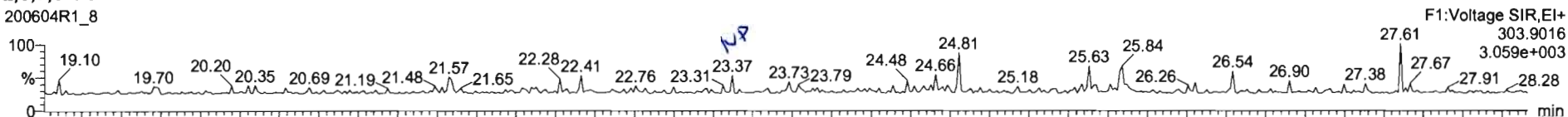
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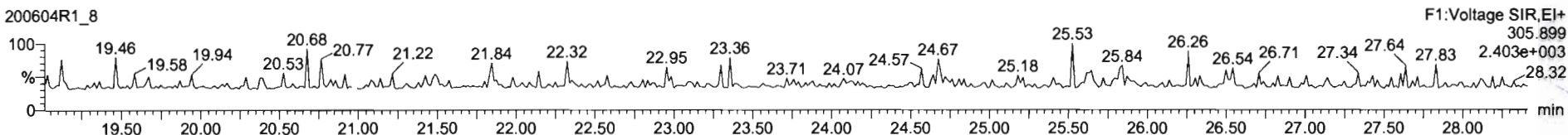
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2,3,7,8-TCDF

200604R1\_8

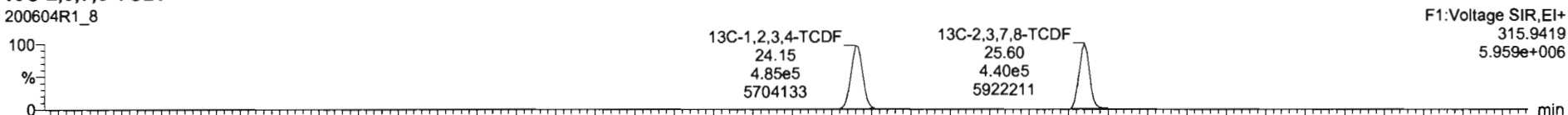


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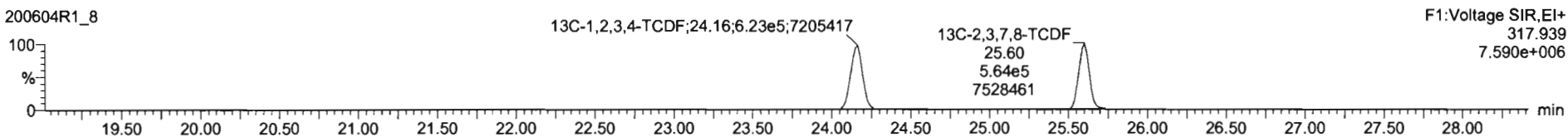


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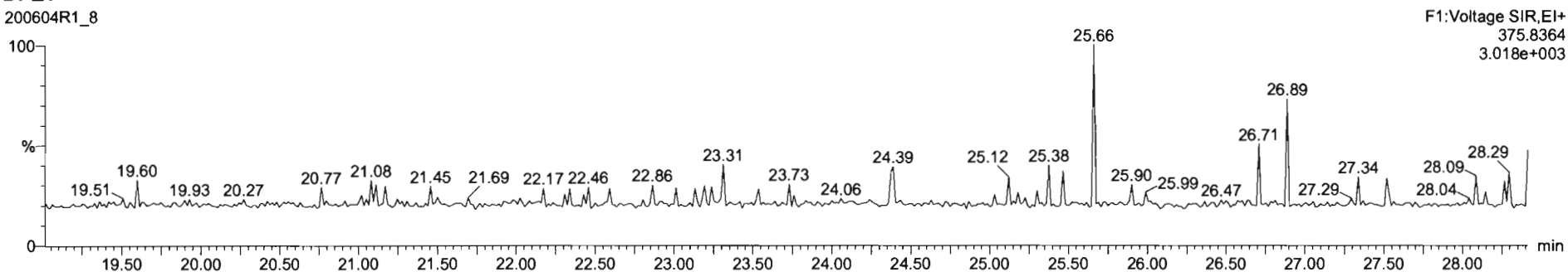


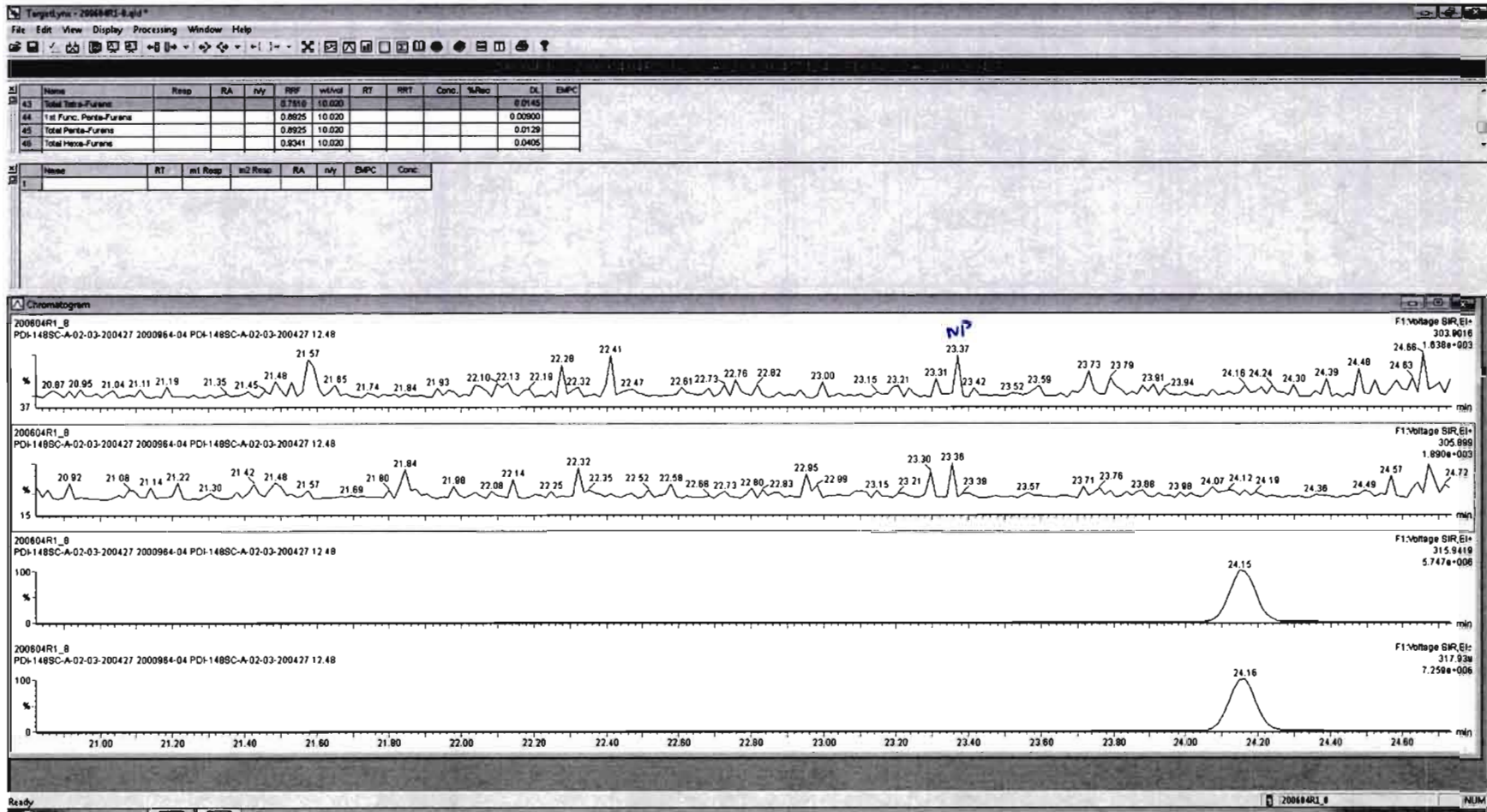
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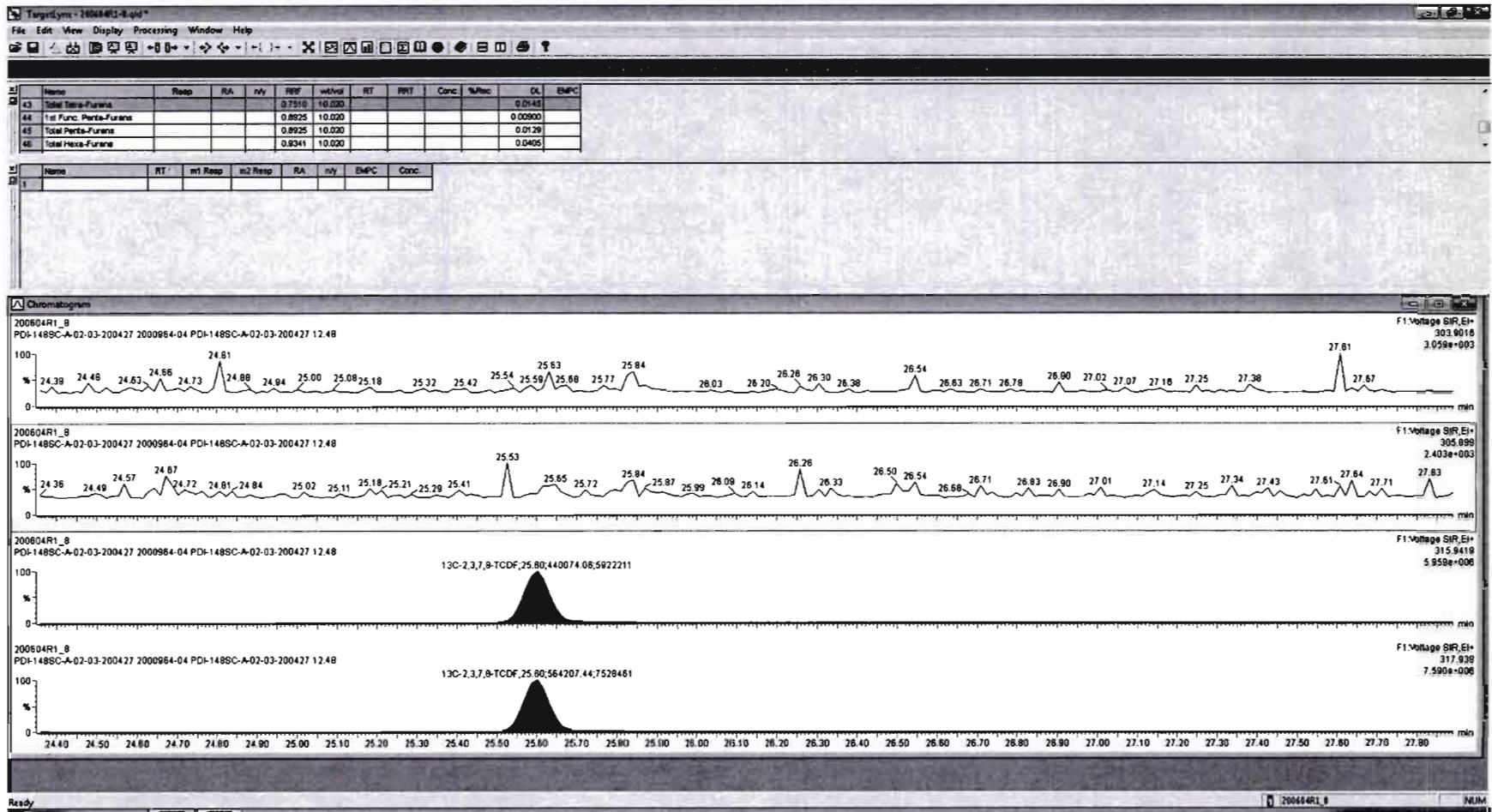


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200604R1\_8









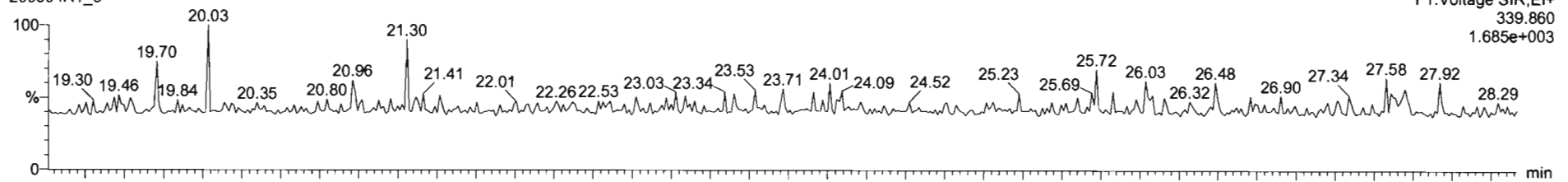
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

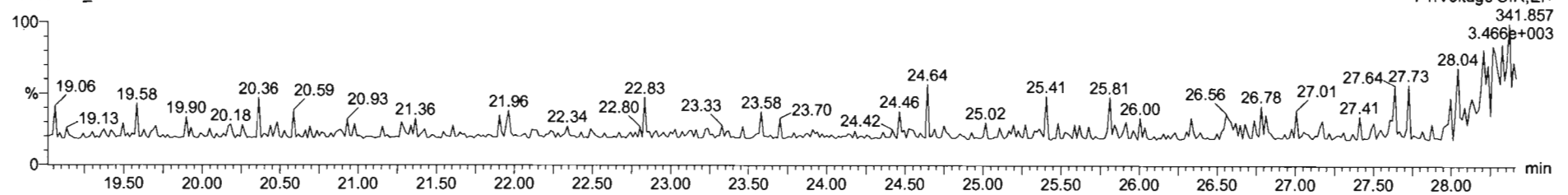
Name: 200604R1\_8, Date: 04-Jun-2020, Time: 13:40:54, ID: 2000964-04 PDI-148SC-A-02-03-200427 12.48, Description: PDI-148SC-A-02-03-200427

1st Func. Penta-Furans

200604R1\_8

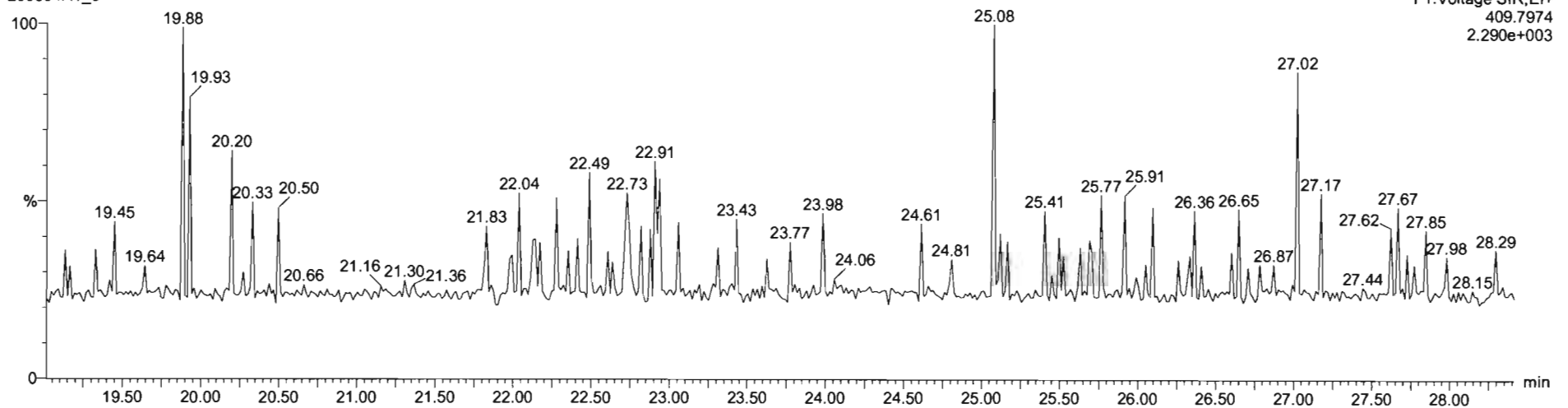


200604R1\_8



DPE6

200604R1\_8



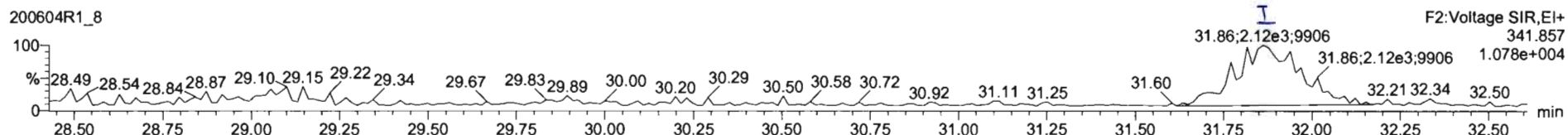
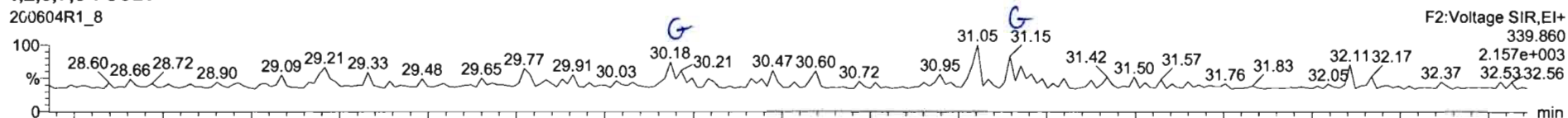


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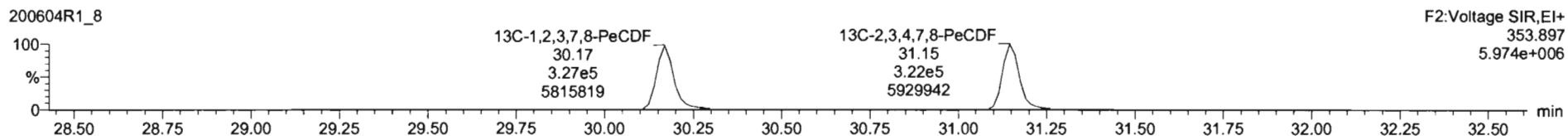
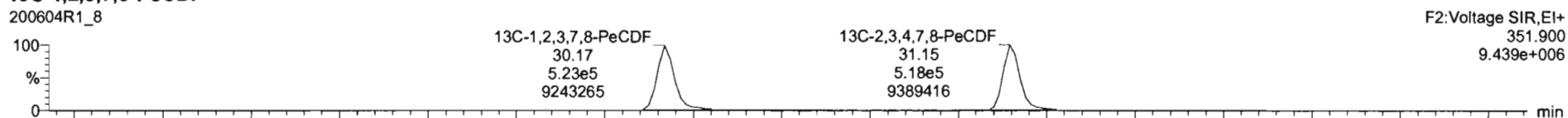
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

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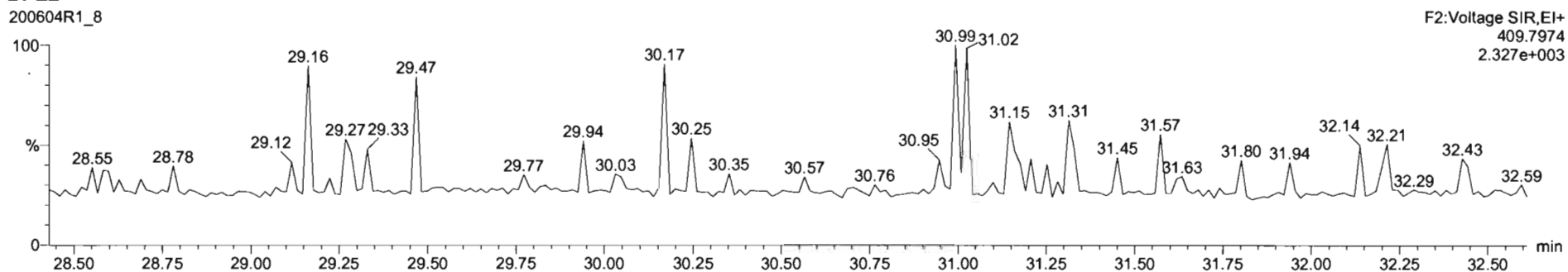
1,2,3,7,8-PeCDF

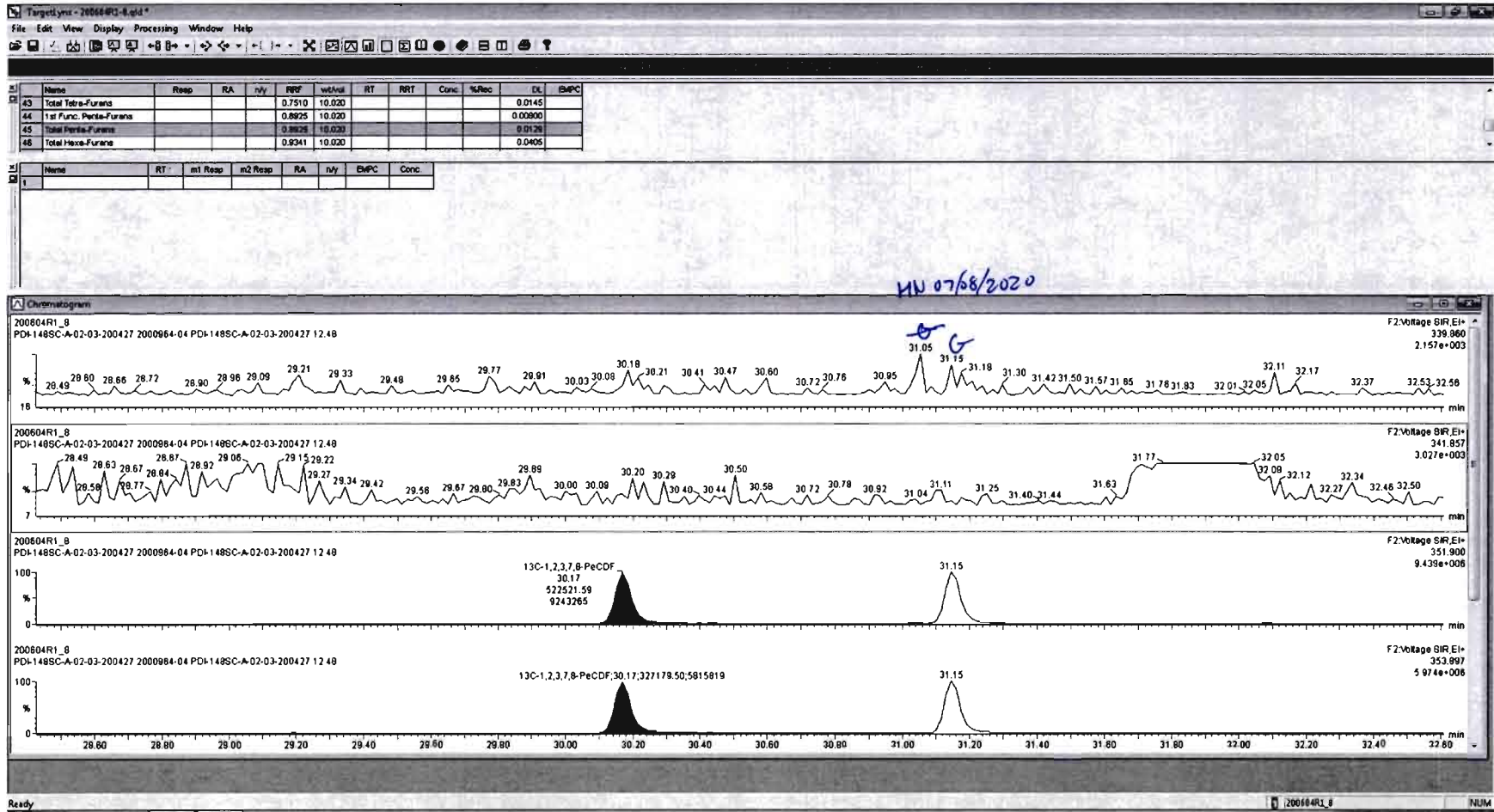


13C-1,2,3,7,8-PeCDF



DPE2





Dataset: Untitled

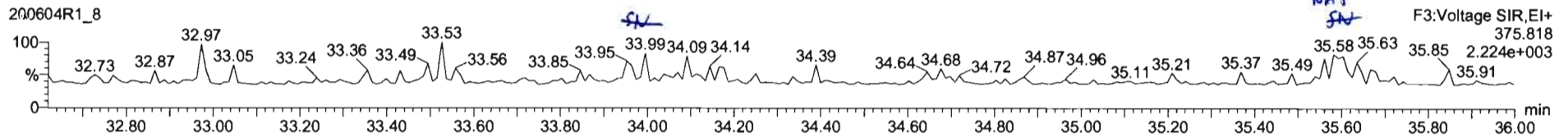
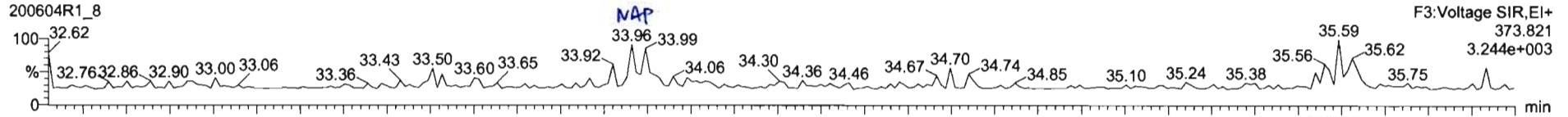
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

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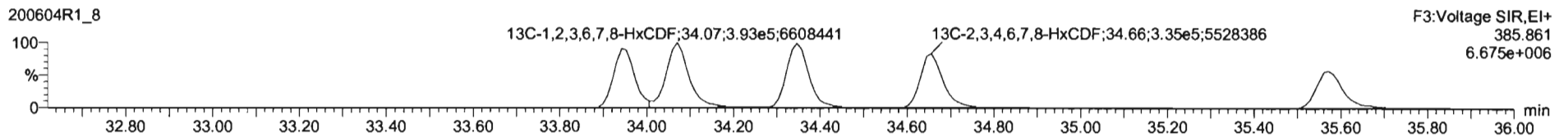
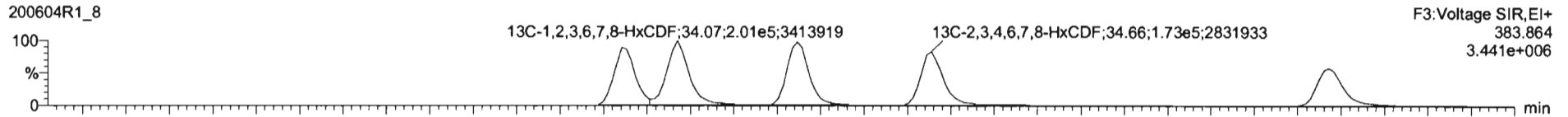
HN 07/08/2020

HN 07/08/2020

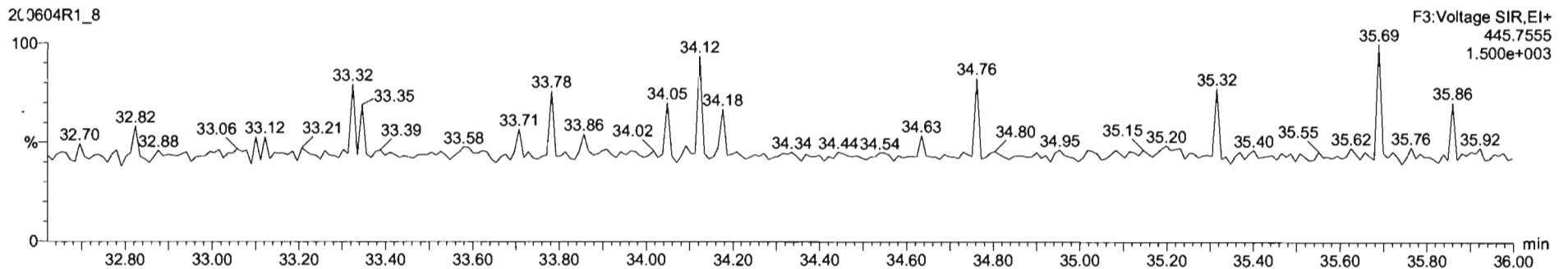
1,2,3,4,7,8-HxCDF



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

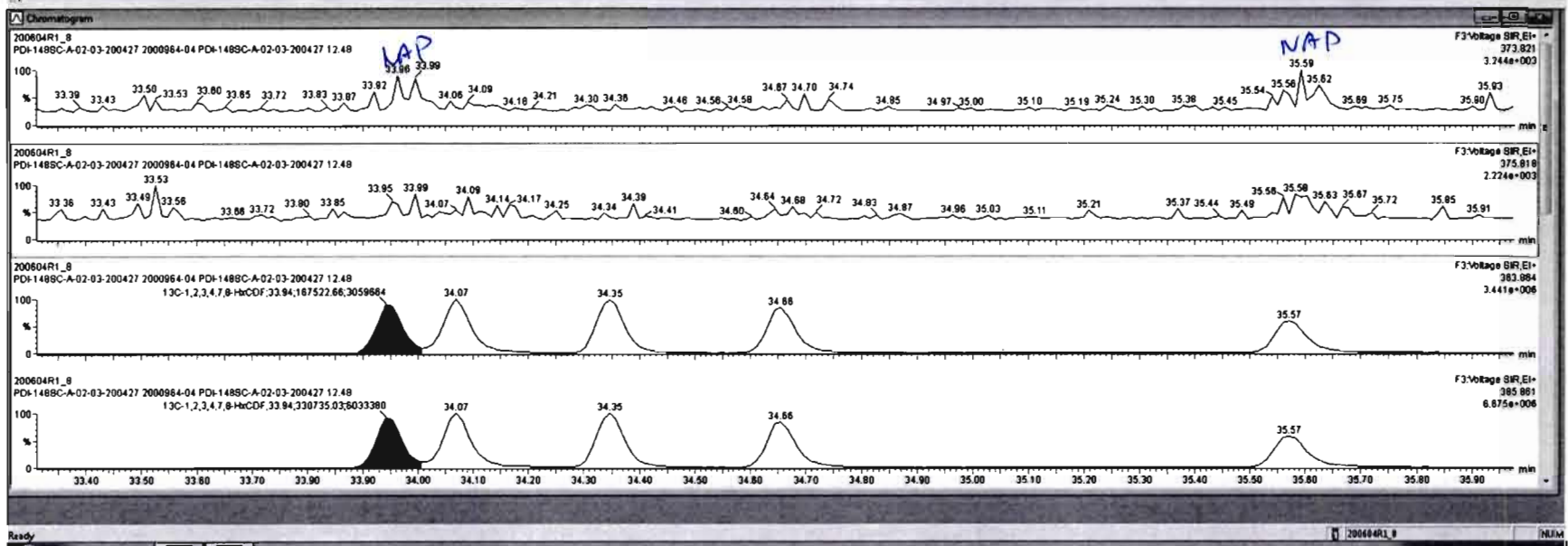


DPE3



#	Name	Resp	RA	n/y	FW	width	Prod RT	RT	RTT	Conc	%Rec	DL	ExPC
43	Total Tetra-Furans				0.7510	10.020	23.81					0.0146	
44	1st Func. Penta-Furans				0.8625	10.020	27.58					0.00600	
45	Total Penta-Furans				0.6925	10.020	29.27					0.0729	
46	Total Hexa-Furans				0.8541	10.020	32.56					0.2655	
47	Total Hepta-Furans				0.8724	10.020	37.63					0.5369	
48	PFY1												
49	PFY2												

#	Name	RT	int Resp	int Conc	RA	n/y	ExPC	Conc
1								



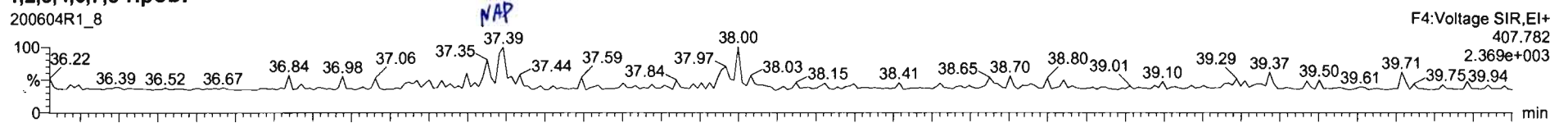
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Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

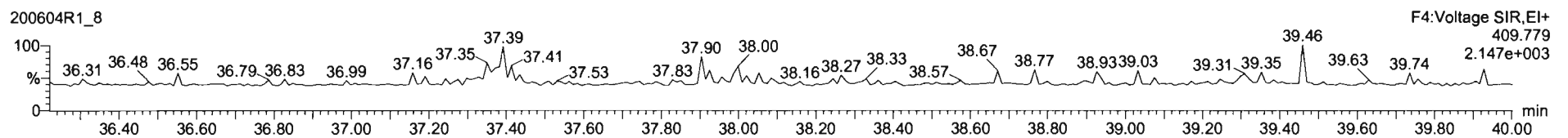
Name: 200604R1\_8, Date: 04-Jun-2020, Time: 13:40:54, ID: 2000964-04 PDI-148SC-A-02-03-200427 12.48, Description: PDI-148SC-A-02-03-200427

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

200604R1\_8

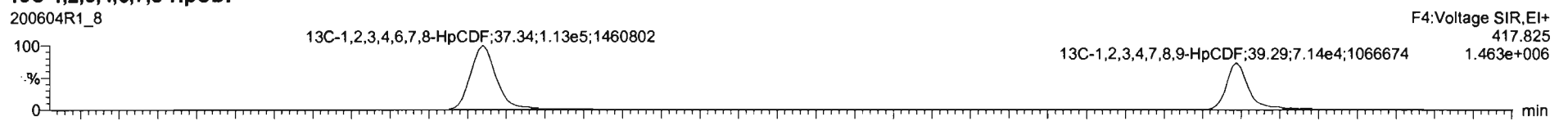


200604R1\_8

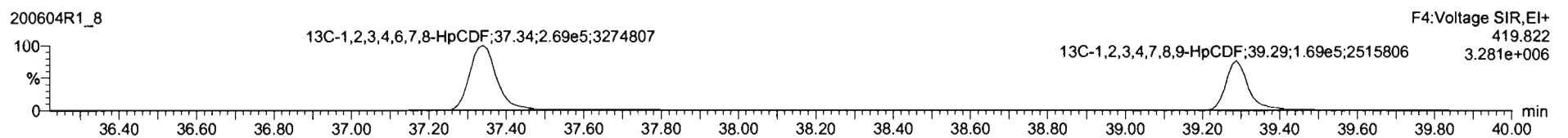


13C-1,2,3,4,6,7,8-HpCDF

200604R1\_8

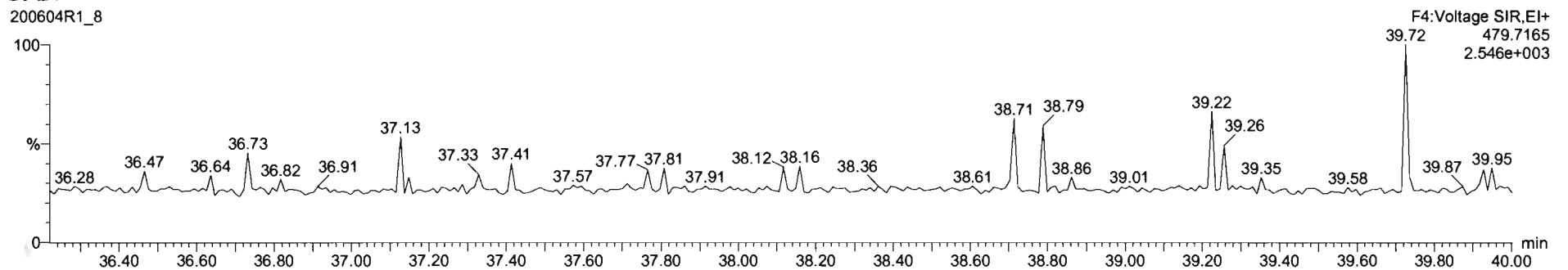


200604R1\_8



DPE4

200604R1\_8

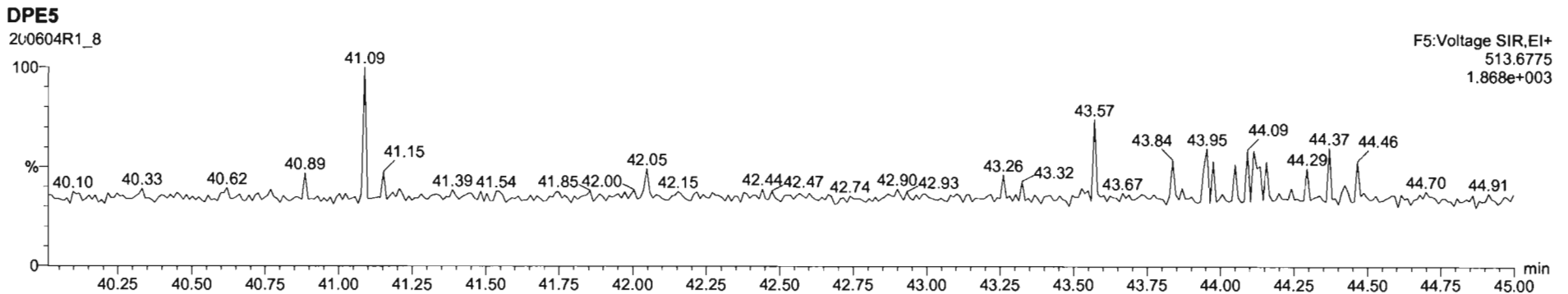
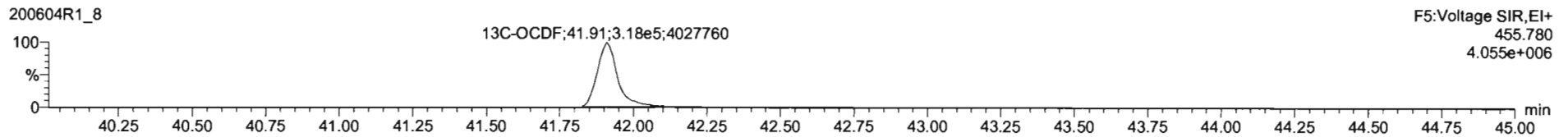
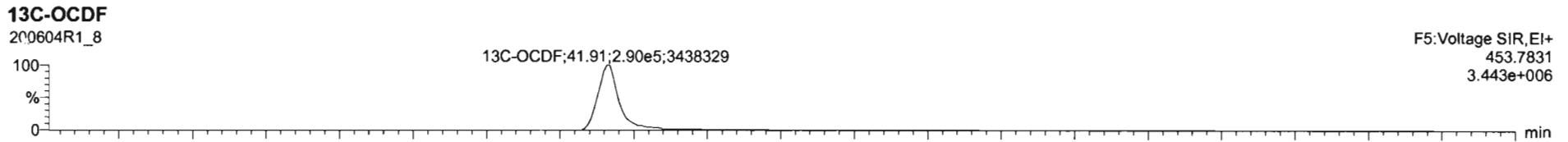
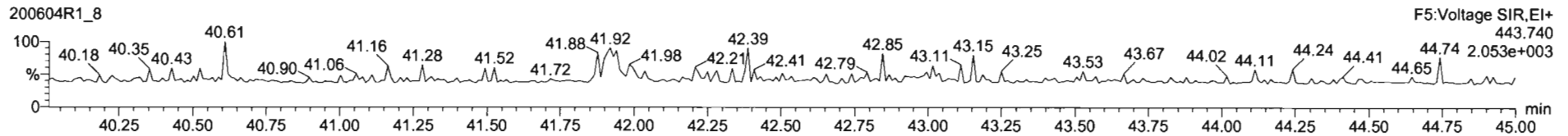
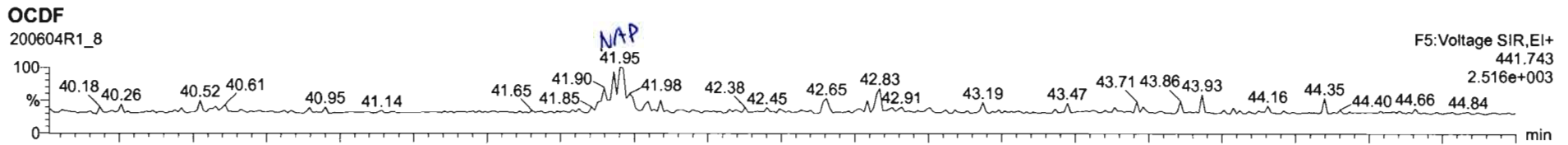




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Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_8, Date: 04-Jun-2020, Time: 13:40:54, ID: 2000964-04 PDI-148SC-A-02-03-200427 12.48, Description: PDI-148SC-A-02-03-200427





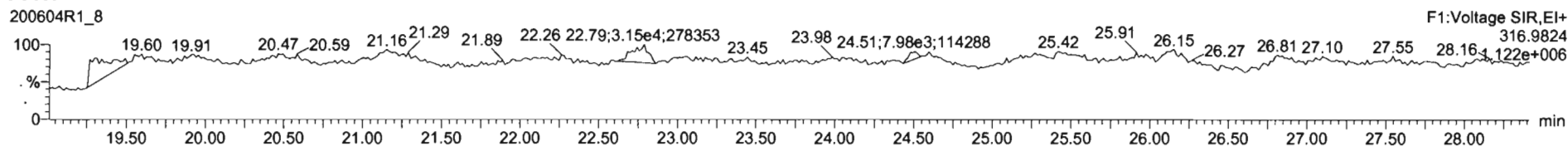
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Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time

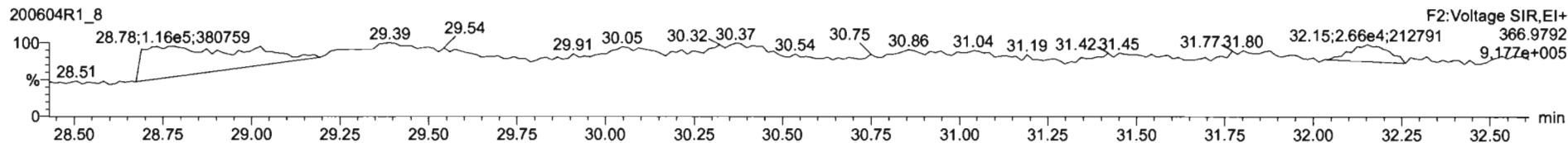
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_8, Date: 04-Jun-2020, Time: 13:40:54, ID: 2000964-04 PDI-148SC-A-02-03-200427 12.48, Description: PDI-148SC-A-02-03-200427

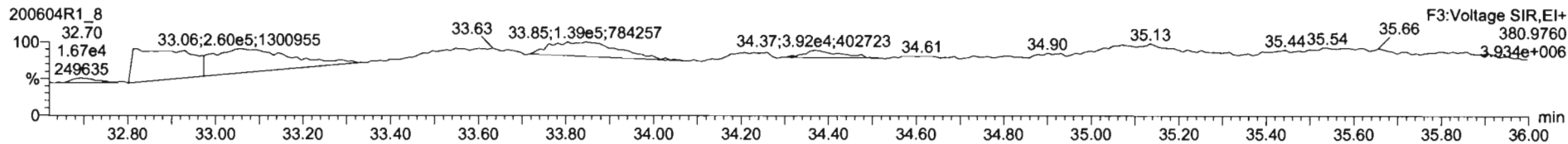
**PFK1**



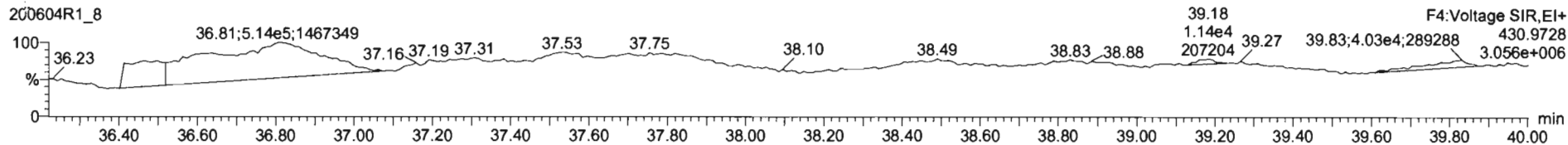
**PFK2**



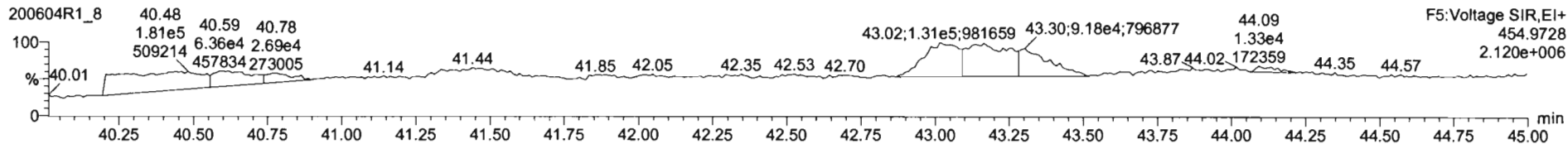
**PFK3**



**PFK4**



**PFK5**



Dataset: U:\VG12.PRO\Results\200605R1\200605R1-3B.qld

Last Altered: Wednesday, July 08, 2020 9:52:44 AM Pacific Daylight Time  
Printed: Wednesday, July 08, 2020 9:56:22 AM Pacific Daylight Time

*MIN 07/08/2020*

*CT 07/16/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45  
Calibration: U:\VG12.PRO\CurveDB\ddb5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200605R1\_3, Date: 05-Jun-2020, Time: 11:26:43, ID: 2000964-05 PDI-148SC-A-03-04-200427 12.53, Description: PDI-148SC-A-03-04-200427

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.888	10.039	26.546		1.001				0.0848	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.039	31.488		1.001				0.0784	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.039	34.857		1.000				0.135	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.039	34.943		1.000				0.131	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.039	35.241		1.000				0.159	
6	6 1,2,3,4,6,7,8-HpCDD	1.45e3	1.03	NO	0.864	10.039	38.778	38.78	1.000	1.000	1.0521		0.207	1.05
7	7 OCDD	1.10e4	0.83	NO	0.914	10.039	41.727	41.75	1.000	1.001	8.7866		0.241	8.79
8	8 2,3,7,8-TCDF			NO	0.751	10.039	25.657		1.001				0.0401	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.039	30.205		1.001				0.0426	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.039	31.207		1.001				0.0389	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.039	33.963		1.000				0.0482	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.039	34.100		1.000				0.0416	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.039	34.711		1.001				0.0494	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.039	35.592		1.000				0.0725	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.039	37.397		1.001				0.0538	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.039	39.309		1.000				0.0611	
17	17 OCDF			NO	0.806	10.039	41.919		1.000				0.0859	
18	18 13C-2,3,7,8-TCDD	8.07e5	0.76	NO	1.16	10.039	26.553	26.51	1.026	1.025	185.28	93.0	0.337	
19	19 13C-1,2,3,7,8-PeCDD	5.76e5	0.64	NO	0.849	10.039	31.748	31.47	1.227	1.216	180.12	90.4	0.402	
20	20 13C-1,2,3,4,7,8-HxCDD	3.74e5	1.28	NO	0.779	10.039	34.853	34.85	1.014	1.014	160.25	80.4	0.576	
21	21 13C-1,2,3,6,7,8-HxCDD	5.05e5	1.27	NO	1.02	10.039	34.966	34.94	1.017	1.017	165.86	83.3	0.441	
22	22 13C-1,2,3,7,8,9-HxCDD	4.51e5	1.26	NO	0.903	10.039	35.238	35.23	1.025	1.025	166.64	83.6	0.497	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.18e5	1.05	NO	0.689	10.039	38.764	38.77	1.128	1.128	154.04	77.3	0.579	
24	24 13C-OCDD	5.46e5	0.89	NO	0.652	10.039	41.788	41.73	1.216	1.214	279.25	70.1	0.545	
25	25 13C-2,3,7,8-TCDF	1.01e6	0.77	NO	1.06	10.039	25.593	25.63	0.989	0.991	168.07	84.4	0.370	
26	26 13C-1,2,3,7,8-PeCDF	8.57e5	1.60	NO	0.838	10.039	30.128	30.18	1.165	1.167	180.89	90.8	0.564	
27	27 13C-2,3,4,7,8-PeCDF	8.52e5	1.59	NO	0.817	10.039	31.083	31.18	1.202	1.205	184.58	92.6	0.579	
28	28 13C-1,2,3,4,7,8-HxCDF	5.04e5	0.51	NO	1.01	10.039	33.983	33.96	0.989	0.988	166.99	83.8	0.613	
29	29 13C-1,2,3,6,7,8-HxCDF	6.05e5	0.50	NO	1.17	10.039	34.107	34.09	0.992	0.992	172.83	86.8	0.529	
30	30 13C-2,3,4,6,7,8-HxCDF	5.33e5	0.51	NO	1.02	10.039	34.681	34.68	1.009	1.009	173.92	87.3	0.605	
31	31 13C-1,2,3,7,8,9-HxCDF	4.30e5	0.51	NO	0.860	10.039	35.581	35.59	1.035	1.036	166.98	83.8	0.719	

Dataset: U:\VG12.PRO\Results\200605R1\200605R1-3B.qld

Last Altered: Wednesday, July 08, 2020 9:52:44 AM Pacific Daylight Time  
Printed: Wednesday, July 08, 2020 9:56:22 AM Pacific Daylight Time

Name: 200605R1\_3, Date: 05-Jun-2020, Time: 11:26:43, ID: 2000964-05 PDI-148SC-A-03-04-200427 12.53, Description: PDI-148SC-A-03-04-200427

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.76e5	0.40	NO	0.774	10.039	37.331	37.36	1.086	1.087	162.15	81.4	0.523	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.47e5	0.40	NO	0.521	10.039	39.362	39.31	1.145	1.144	158.36	79.5	0.778	
34	34 13C-OCDF	5.99e5	0.87	NO	0.746	10.039	41.960	41.92	1.221	1.220	268.17	67.3	0.602	
35	35 37Cl-2,3,7,8-TCDD	3.24e5			1.04	10.039	26.584	26.54	1.028	1.026	82.942	104	0.0779	
36	36 13C-1,2,3,4-TCDD	7.50e5	0.80	NO	1.00	10.039	25.890	25.87	1.000	1.000	199.22	100	0.389	
37	37 13C-1,2,3,4-TCDF	1.13e6	0.78	NO	1.00	10.039	24.360	24.18	1.000	1.000	199.22	100	0.392	
38	38 13C-1,2,3,4,6,9-HxCDF	5.97e5	0.50	NO	1.00	10.039	34.420	34.37	1.000	1.000	199.22	100	0.618	
39	39 Total Tetra-Dioxins				0.888	10.039	24.620		0.000		0.00000		0.0569	0.567
40	40 Total Penta-Dioxins				0.908	10.039	29.960		0.000		0.41625		0.0784	0.528
41	41 Total Hexa-Dioxins				0.892	10.039	33.635		0.000		1.0960		0.147	1.10
42	42 Total Hepta-Dioxins				0.864	10.039	37.640		0.000		3.1279		0.207	3.13
43	43 Total Tetra-Furans				0.751	10.039	23.610		0.000				0.0172	
44	44 1st Func. Penta-Furans				0.893	10.039	27.580		0.000				0.0122	
45	45 Total Penta-Furans				0.893	10.039	29.275		0.000				0.0168	
46	46 Total Hexa-Furans				0.934	10.039	33.555		0.000				0.0230	
47	47 Total Hepta-Furans				0.873	10.039	37.835		0.000				0.0308	

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Dataset: U:\VG12.PRO\Results\200605R1\200605R1-3B.qld

Last Altered: Wednesday, July 08, 2020 9:52:44 AM Pacific Daylight Time

Printed: Wednesday, July 08, 2020 9:56:22 AM Pacific Daylight Time

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

Calibration: U:\VG12.PRO\CurveDB\ldb5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200605R1\_3, Date: 05-Jun-2020, Time: 11:26:43, ID: 2000964-05 PDI-148SC-A-03-04-200427 12.53, Description: PDI-148SC-A-03-04-200427

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.34	1.081e4	1.292e4	9.428e2	1.064e3	0.89	YES	0.000e0	0.00000	0.52343	0.0848
2	Total Tetra-Dioxins	27.52	1.922e3	2.019e3	9.774e1	8.863e1	1.10	YES	0.000e0	0.00000	0.043621	0.0848

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.27	1.640e3	2.732e3	9.389e1	1.671e2	0.56	NO	2.610e2	0.099453	0.099453	0.0784
2	Total Penta-Dioxins	29.76	6.581e3	9.126e3	3.163e2	5.150e2	0.61	NO	8.313e2	0.31679	0.31679	0.0784
3	Total Penta-Dioxins	30.78	2.035e3	3.775e3	1.134e2	2.499e2	0.45	YES	0.000e0	0.00000	0.11180	0.0784

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.35	2.069e4	1.752e4	1.197e3	9.802e2	1.22	NO	2.177e3	1.0960	1.0960	0.147

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.78	1.770e4	1.809e4	1.441e3	1.423e3	1.01	NO	2.864e3	2.0757	2.0757	0.207
2	1,2,3,4,6,7,8-HpCDD	38.78	1.087e4	9.706e3	7.378e2	7.141e2	1.03	NO	1.452e3	1.0521	1.0521	0.207

**Tetra-Furans**

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

**Penta-Furans function 1**

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

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Dataset: U:\VG12.PRO\Results\200605R1\200605R1-3B.qld

Last Altered: Wednesday, July 08, 2020 9:52:44 AM Pacific Daylight Time

Printed: Wednesday, July 08, 2020 9:56:22 AM Pacific Daylight Time

Name: 200605R1\_3, Date: 05-Jun-2020, Time: 11:26:43, ID: 2000964-05 PDI-148SC-A-03-04-200427 12.53, Description: PDI-148SC-A-03-04-200427

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												

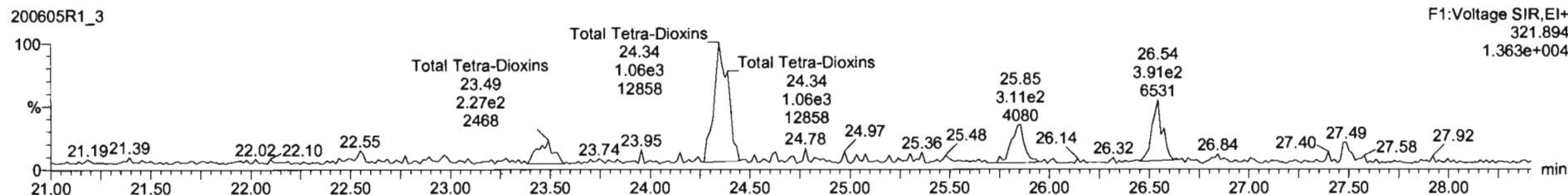
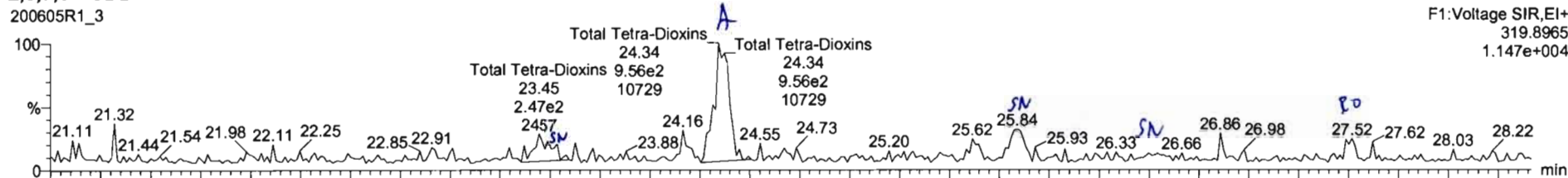
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Printed: Sunday, June 07, 2020 08:21:35 Pacific Daylight Time

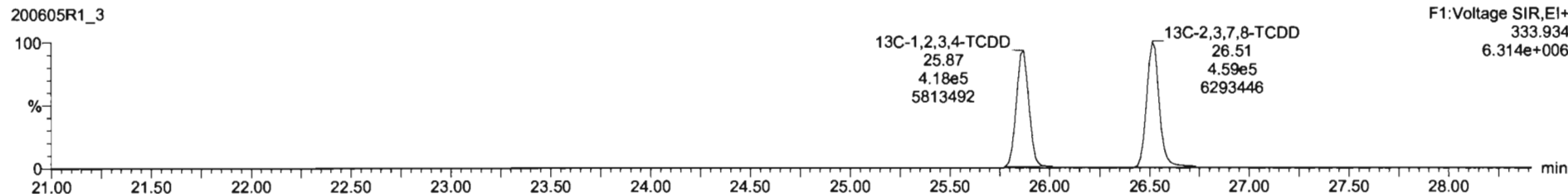
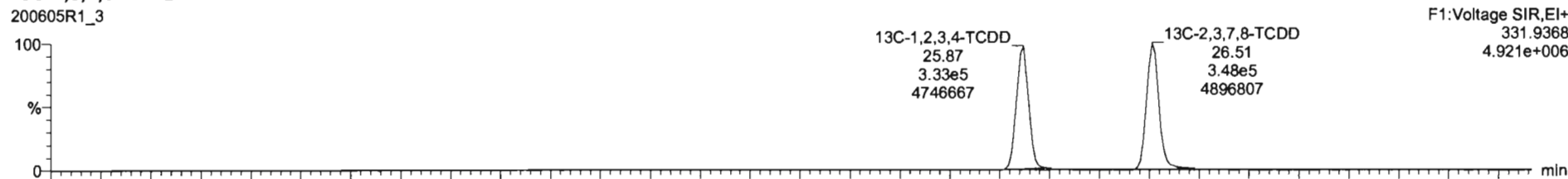
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Name: 200605R1\_3, Date: 05-Jun-2020, Time: 11:26:43, ID: 2000964-05 PDI-148SC-A-03-04-200427 12.53, Description: PDI-148SC-A-03-04-200427

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



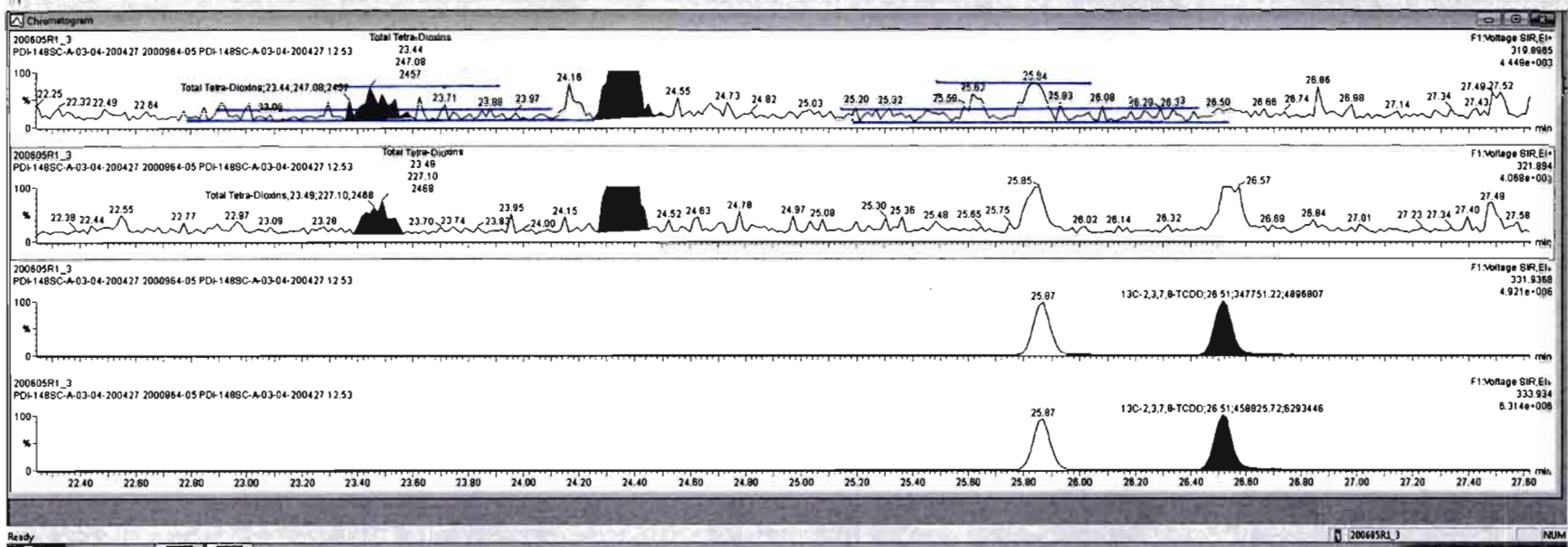
**13C-2,3,7,8-TCDD**





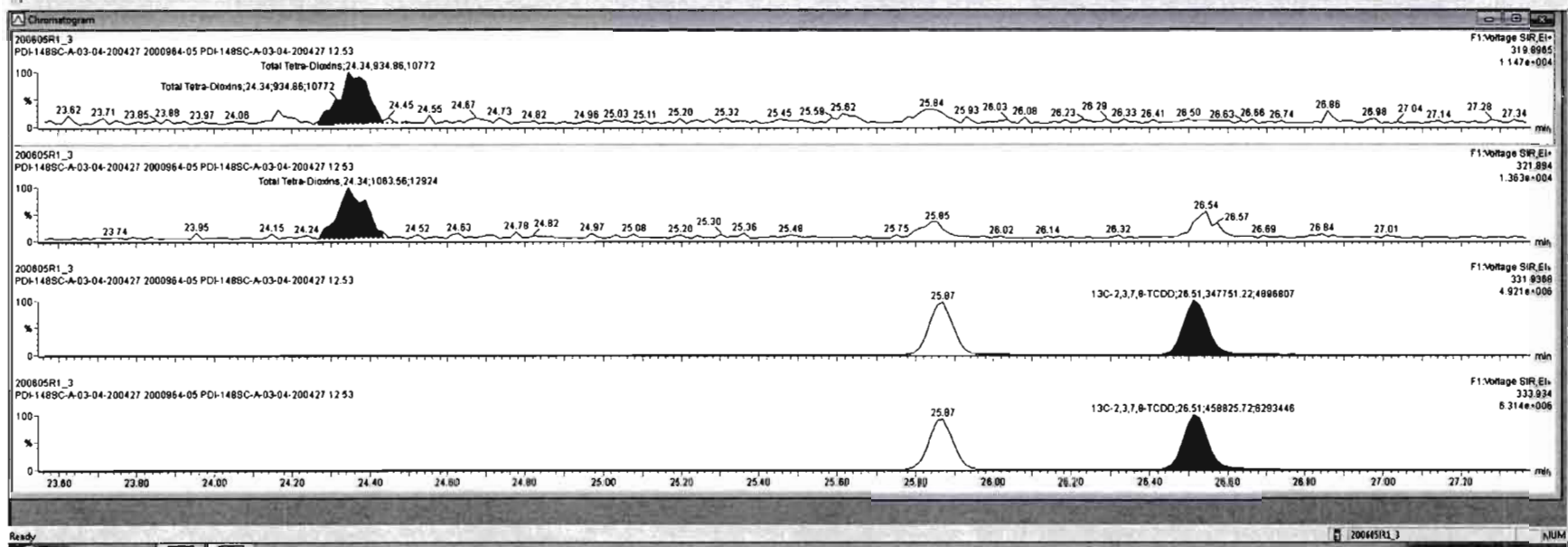
#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.0063	10.030					0.0640	
2	1,2,3,7,8-PeCDD			NO	0.9081	10.030					0.0784	
3	1,2,3,4,7,8-HxCDD			NO	1.0334	10.030					0.135	
4	1,2,3,6,7,8-HxCDD			NO	0.8923	10.030					0.131	
5	1,2,3,7,8,9-HxCDD			NO	0.8969	10.030					0.159	
6	1,2,3,4,6,7,8-HxCDD	1.43e3	1.00	NO	0.8830	10.030	30.78	1.000	1.04		0.207	1.04
7	OCDD	1.08e4	0.75	YES	0.9136	10.030	41.75	1.000	8.63		0.241	7.82
8	2,3,7,8-TCDF			NO	0.7510	10.030					0.0401	
9	1,2,3,7,8-PeCDF			NO	0.8925	10.030					0.0426	

#	Name	RT	ml Resp	nl Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Dioxins	23.44	9.563e2	1.065e3	0.90	YES	0.52400	0.00000
2	Total Tetra-Dioxins	23.44	2.471e2	2.271e2	1.09	YES	0.11200	0.00000



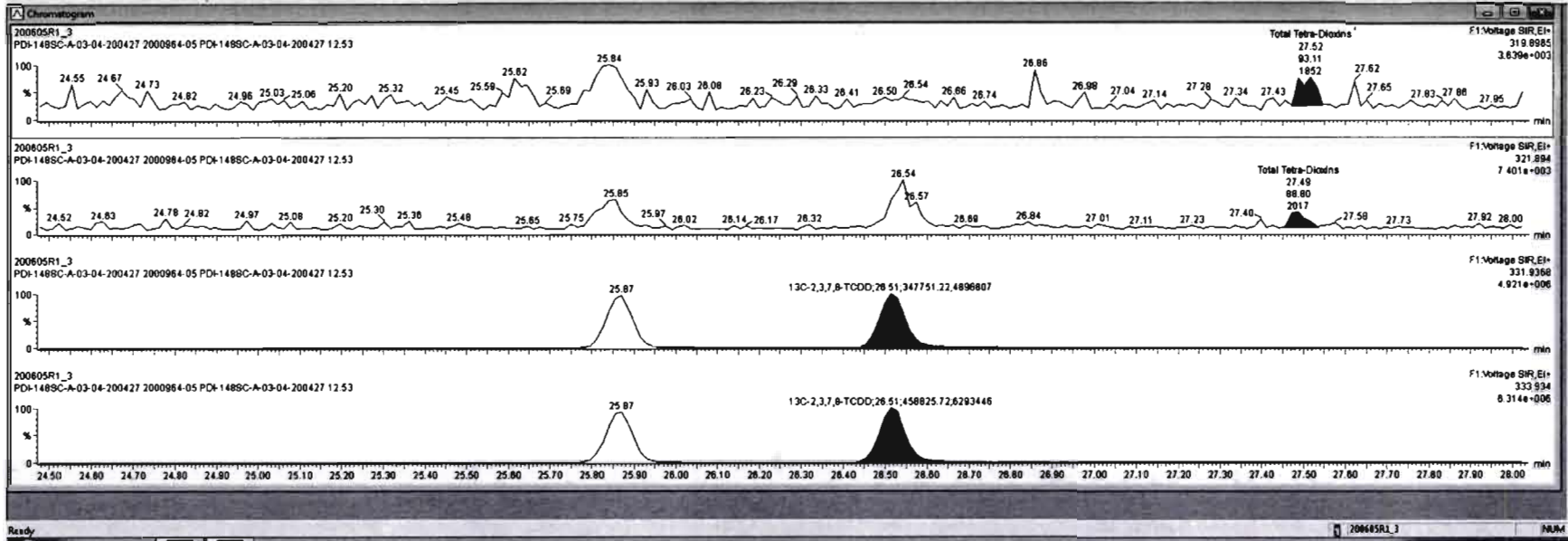
SL	Name	Resp	RA	INy	RF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.9993	10.039					0.0549	
2	1,2,3,7,8-PeCDD			NO	0.9091	10.039					0.0784	
3	1,2,3,4,7,8-HxCDD			NO	1.0334	10.039					0.125	
4	1,2,3,6,7,8-HxCDD			NO	0.9923	10.039					0.131	
5	1,2,3,7,8-HxCDD			NO	0.9959	10.039					0.159	
6	1,2,3,4,6,7,8-HxCDD	1.43e3	1.00	NO	0.8839	10.039	38.78	1.000	1.04		0.207	1.04
7	OCDD	1.08e4	0.74	YES	0.9136	10.039	41.75	1.001	8.63		0.241	7.82
8	2,3,7,8-TCDF			NO	0.7510	10.039					0.0401	
9	1,2,3,7,8-PeCDF			NO	0.8925	10.039					0.0426	

Name	RT	ml Resp	ml Resp	RA	INy	EMPC	Conc
Total Tetra-Chlorins	24.34	9.349e2	1.064e3	0.88	NO	0.55566	0.55566



SL	Name	Resp	RA	rvy	RWF	wtAve	Prod_RT	RT	RRT	Conc	%Rec	DL	EMPC
30	Total Tetra-Dioxins				0.8983	10.038	24.82			0.000		0.0069	0.587
40	Total Penta-Dioxins				0.9091	10.038	28.96			0.416		0.0784	0.526
41	Total Hexa-Dioxins				0.8923	10.038	33.63			1.10		0.147	1.10
42	Total Hepta-Dioxins				0.8638	10.038	37.84			3.13		0.207	3.13
43	Total Tetra-Furans				0.7510	10.038	23.81					0.0172	
44	1st Func. Penta-Furans				0.8925	10.038	27.59					0.0122	
45	Total Penta-Furans				0.8925	10.038	28.27			0.000		0.0188	0.0188

SL	Name	RT	wt Resp	wt Resp	RA	rvy	EMPC	Conc
1	Total Tetra-Dioxine	24.34	9.428e2	1.064e3	0.89	YES	0.52343	0.00000
2	Total Tetra-Dioxine	27.52	9.311e1	8.880e1	1.05	YES	0.043702	0.00000



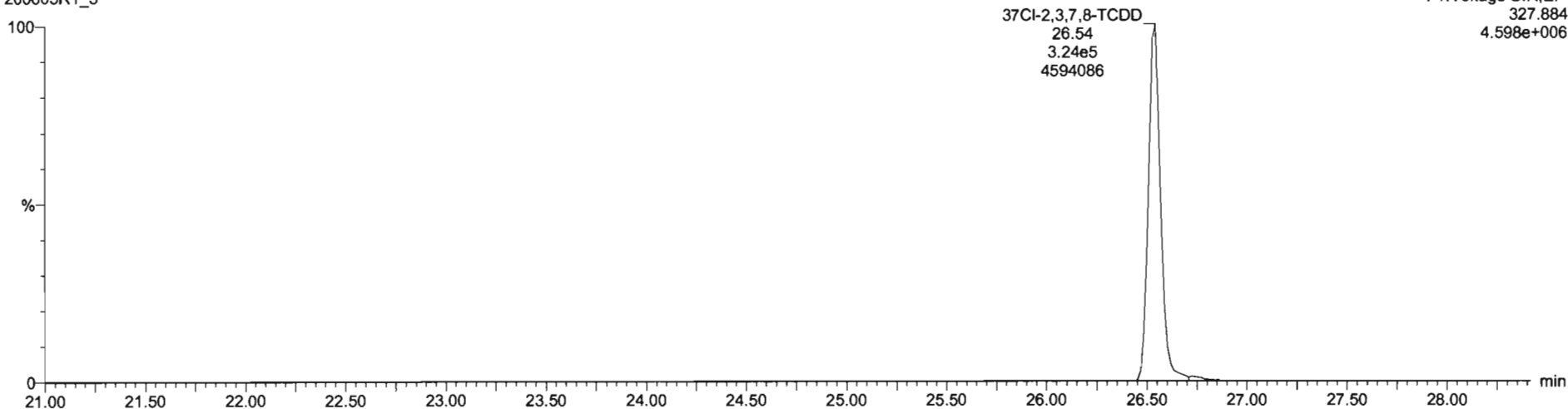
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Printed: Sunday, June 07, 2020 08:21:35 Pacific Daylight Time

Name: 200605R1\_3, Date: 05-Jun-2020, Time: 11:26:43, ID: 2000964-05 PDI-148SC-A-03-04-200427 12.53, Description: PDI-148SC-A-03-04-200427

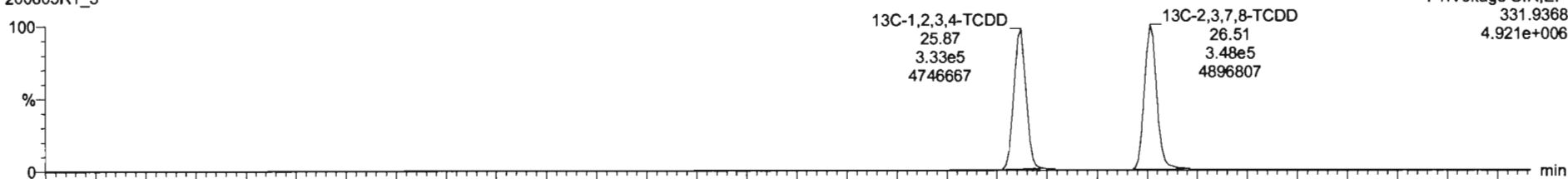
**37Cl-2,3,7,8-TCDD**

200605R1\_3

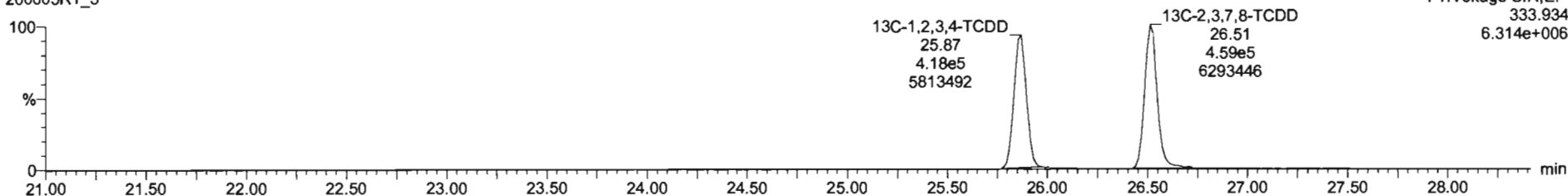


**13C-1,2,3,4-TCDD**

200605R1\_3



200605R1\_3



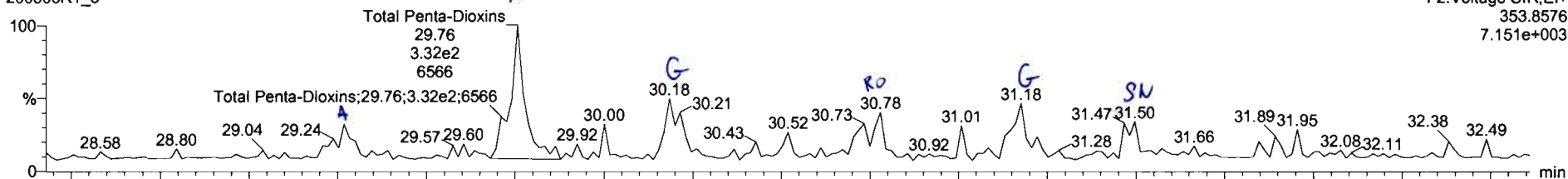
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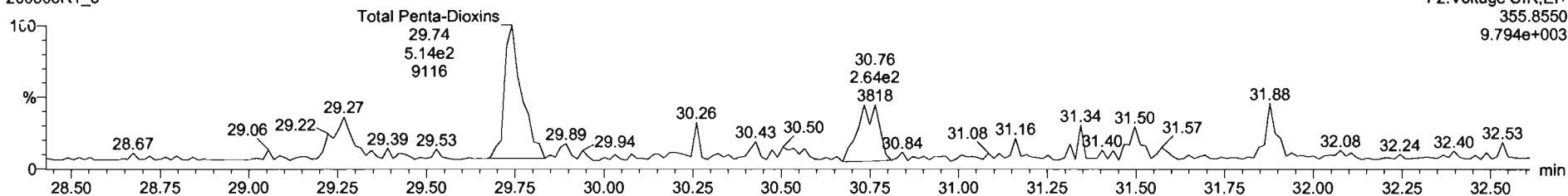
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**1,2,3,7,8-PeCDD**

200605R1\_3

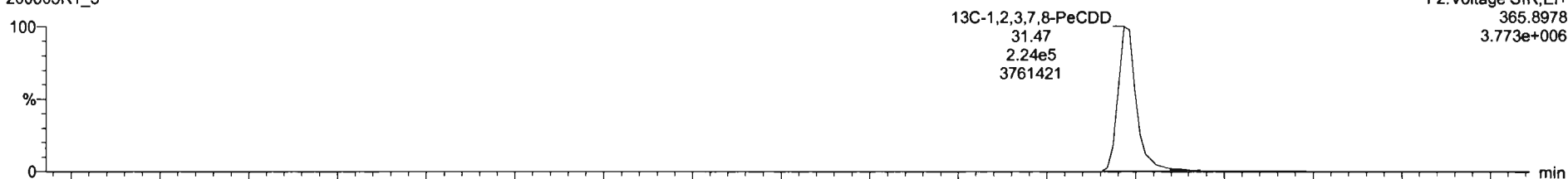


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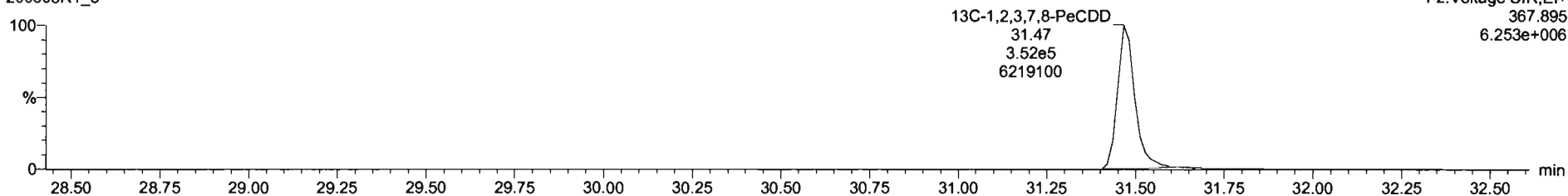


**13C-1,2,3,7,8-PeCDD**

200605R1\_3



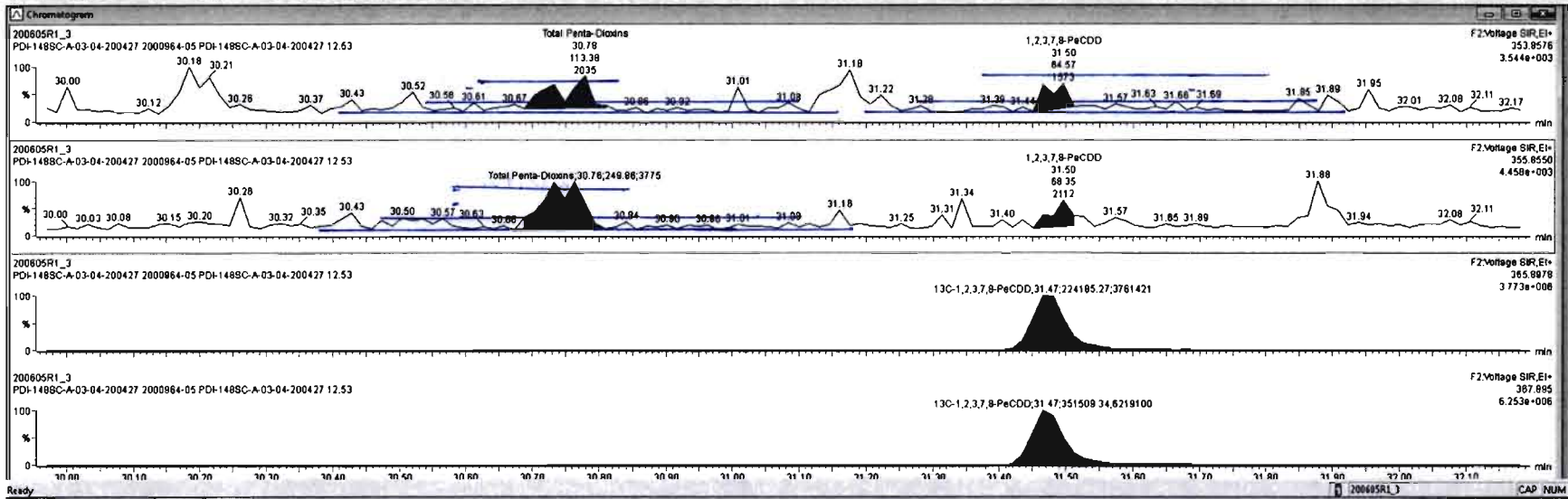
200605R1\_3





SI	Name	Resp	RA	rly	RF	sdVal	RT	RRT	Conc.	%Rec	DL	EMC
39	Total Tetra-Dioxins				0.9883	10.036			0.000	0.0569	0.523	
40	Total Penta-Dioxins				0.9091	10.036			0.418	0.0784	0.971	
41	Total Hexa-Dioxins				0.8923	10.036			1.10	0.147	1.10	
42	Total Hepta-Dioxins				0.9639	10.036			3.13	0.207	3.13	
43	Total Tetra-Furans				0.7510	10.036				0.0172		
44	1st Func. Penta-Furans				0.8625	10.036				0.0172		
45	Total Penta-Furans				0.8625	10.036				0.0189		
46	Total Hexa-Furans				0.9341	10.036				0.0230		
47	Total Hepta-Furans				0.8734	10.036				0.0308		
48	DFX1											
49	DFX2											
50	DFX3											

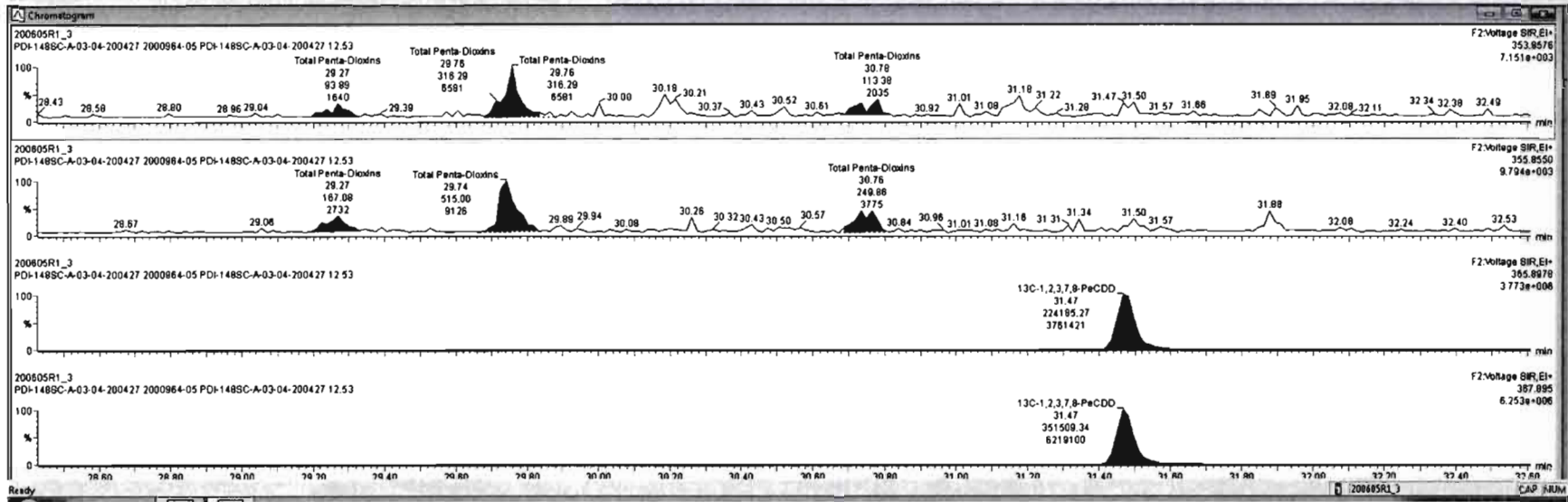
SI	Name	RT	m1 Resp	m2 Resp	RA	rly	EMC	Conc.
1	Total Penta-Dioxins	29.76	3.163e2	5.150e2	0.81	NO	0.31678	0.31679
2	1,2,3,7,8-PeCDD	31.50	8.457e1	8.835e1	0.94	YES	0.042458	0.00000
3	Total Penta-Dioxins	30.76	1.134e2	2.489e2	0.45	YES	0.11180	0.00000
4	Total Penta-Dioxins	29.27	9.388e1	1.871e2	0.58	NO	0.099453	0.099453





SL	Name	Resp	RA	n/y	RRR	wt/Avd	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Nitro-Dioxins				0.8663	10.038			0.000		0.0569	0.523
40	Total Penta-Dioxins				0.9081	10.038			0.418		0.0784	0.528
41	Total Hexa-Dioxins				0.8923	10.038			1.10		0.147	1.10
42	Total Hepta-Dioxins				0.8638	10.038			3.13		0.207	3.13
43	Total Tetra-Furans				0.7510	10.038					0.0172	
44	1st Func. Penta-Furans				0.8925	10.038					0.0122	
45	Total Penta-Furans				0.8925	10.038					0.0188	
46	Total Hexa-Furans				0.8341	10.038					0.0230	
47	Total Hepta-Furans				0.8734	10.038					0.0308	
48	PFK1											
49	PFK2											
50	PFK3											

SL	Name	RT	Int Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Penta-Dioxins	29.27	9.389e1	1.871e2	0.58	NO	0.009453	0.009453
2	Total Penta-Dioxins	29.76	3.182e2	5.150e2	0.81	NO	0.31879	0.31879
3	Total Penta-Dioxins	30.76	1.134e2	2.498e2	0.45	YES	0.11180	0.00000

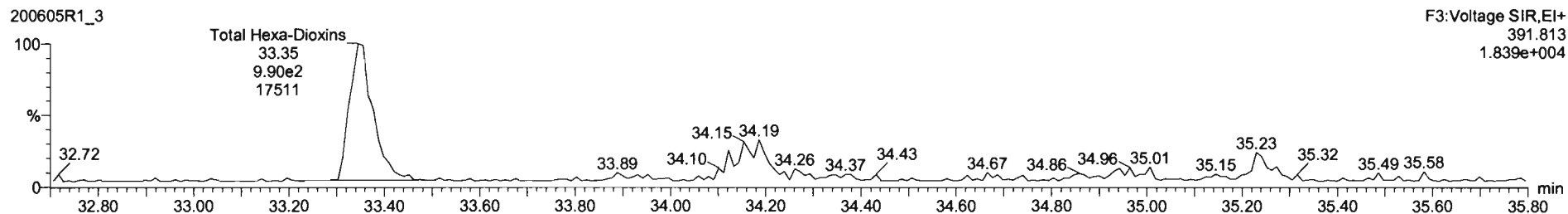
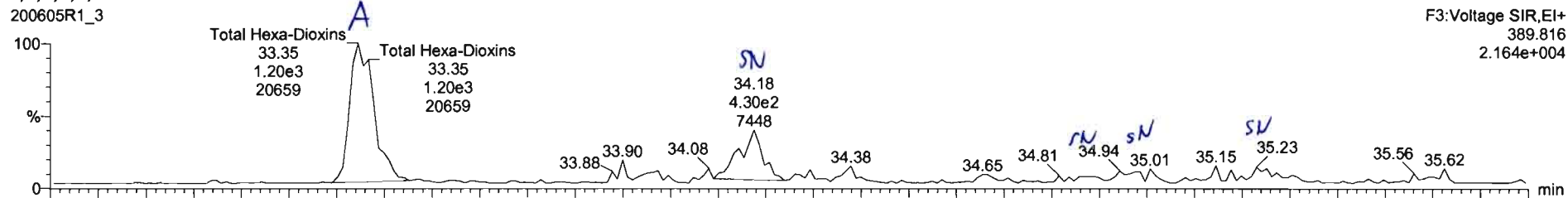


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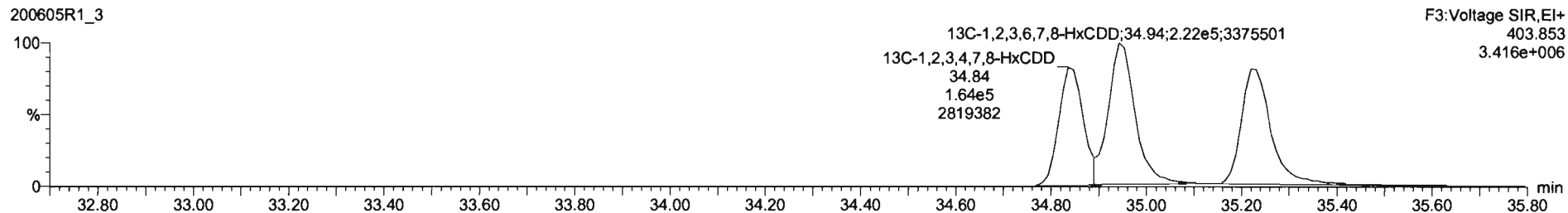
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Name: 200605R1\_3, Date: 05-Jun-2020, Time: 11:26:43, ID: 2000964-05 PDI-148SC-A-03-04-200427 12.53, Description: PDI-148SC-A-03-04-200427

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



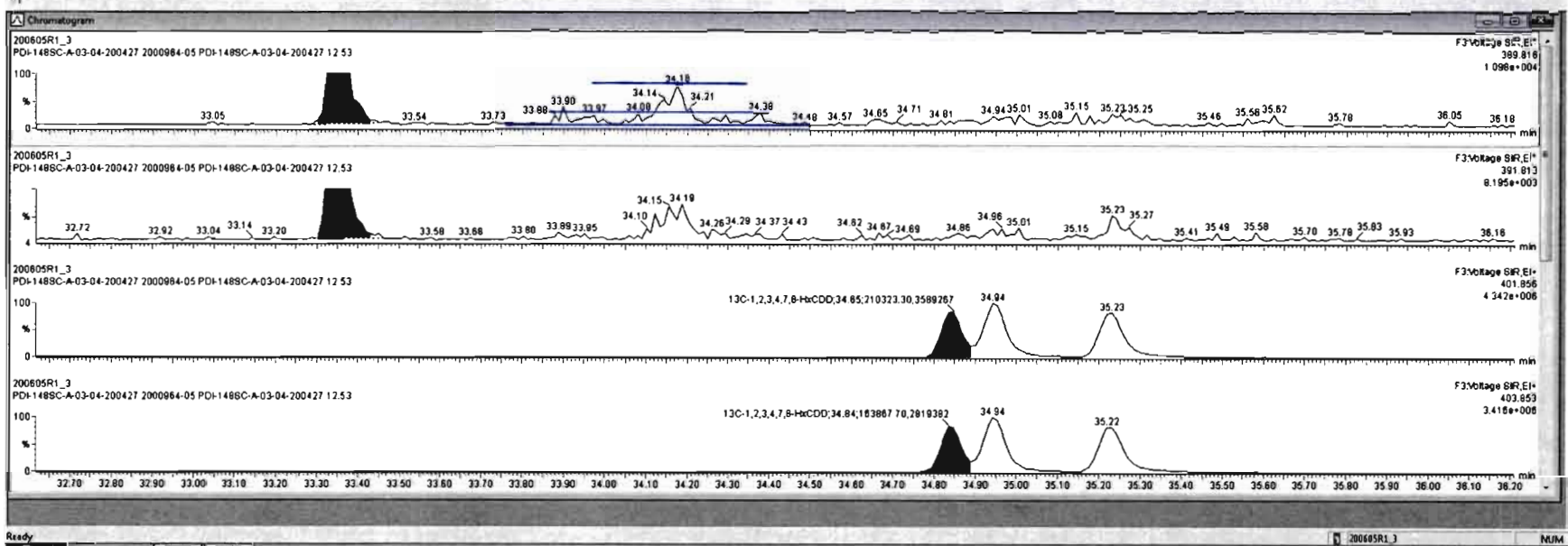
13C-1,2,3,4,7,8-HxCDD



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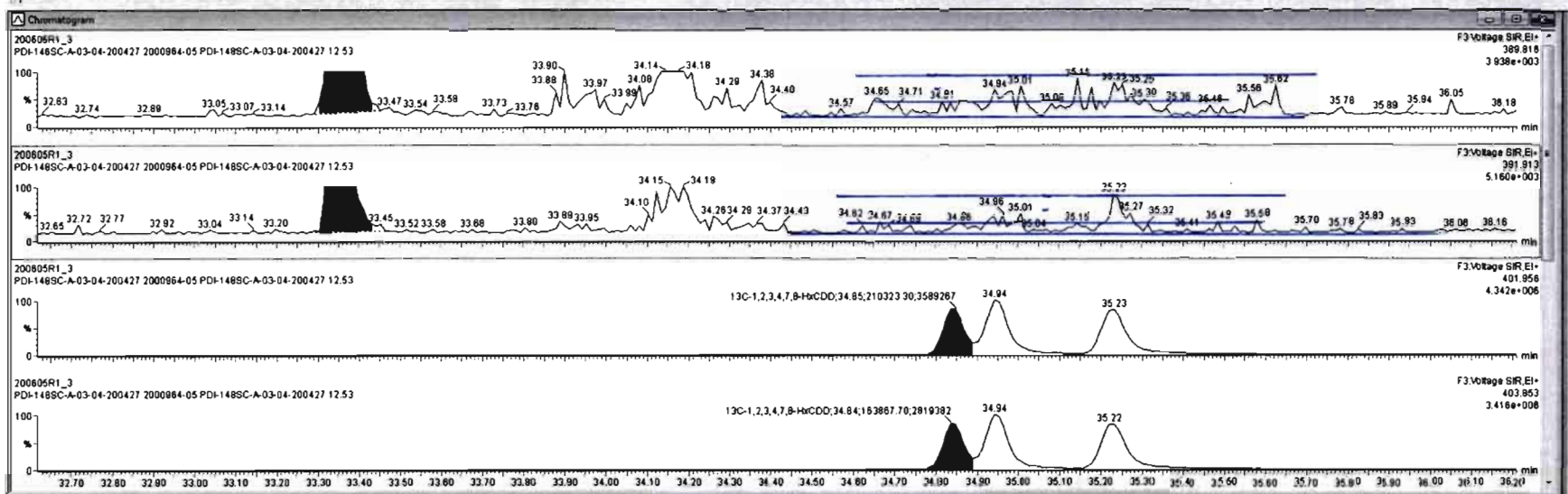
ID	Name	Resp	RA	rvy	RF	wtAval	RT	FRT	Conc	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.9061	10.036			0.416	0.0794	0.416	
41	Total Hexa-Dioxins				0.8923	10.036			1.06	0.147	1.06	
42	Total Hepta-Dioxins				0.8639	10.036			3.13	0.207	3.13	
43	Total Tetra-Furans				0.7510	10.036				0.0172		
44	1st Func. Penta-Furans				0.8925	10.036				0.0122		
45	Total Penta-Furans				0.8925	10.036				0.0168		
46	Total Hexa-Furans				0.9341	10.036				0.0230		
47	Total Hepta-Furans				0.8734	10.036				0.0306		
48	PFY1											

ID	Name	RT	Int Resp	Int Resp	RA	rvy	EMPC	Conc
1	Total Hexa-Dioxins	33.35	1.186e3	9.770e2	1.21	MO	1.0897	1.0897



ID	Name	Resp	RA	nHy	RRF	wtVal	RT	RRT	Conc	%Rec	DL	EMPC
40	Total Perils-Dioxins				0.9061	10.039			0.416		0.0764	0.416
41	Total Hexa-Dioxins				0.8623	10.039			1.09		0.147	1.09
42	Total Hepta-Dioxins				0.8636	10.039			3.13		0.207	3.13
43	Total Tetra-Furans				0.7510	10.039					0.0172	
44	1st Func. Penta-Furans				0.8825	10.039					0.0122	
45	Total Penta-Furans				0.8825	10.039					0.0168	
46	Total Hexa-Furans				0.9341	10.039					0.0230	
47	Total Hepta-Furans				0.8734	10.039					0.0300	
48	PFx1											

ID	Name	RT	Int Resp	Int Resp	RA	nHy	EMPC	Conc.
1	Total Hexa-Dioxins	33.35	1.186e3	9.770e2	1.21	ND	1.0887	1.0887



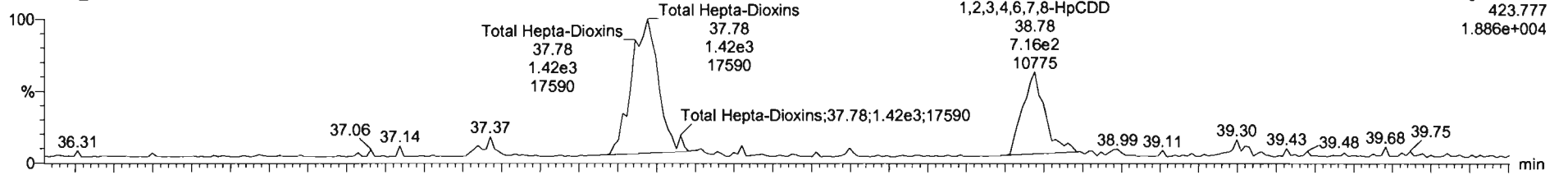
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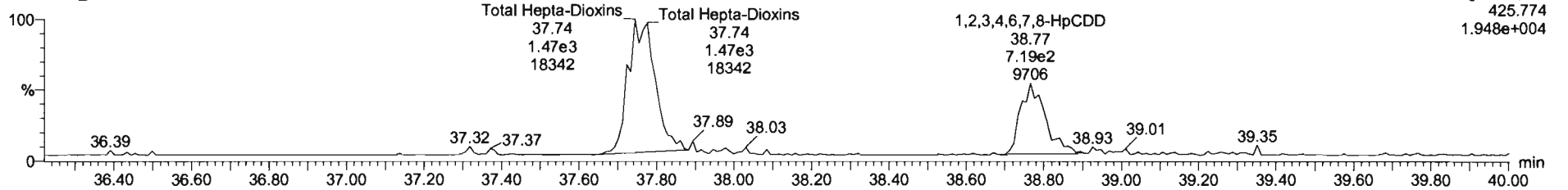
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1,2,3,4,6,7,8-HpCDD

200605R1\_3

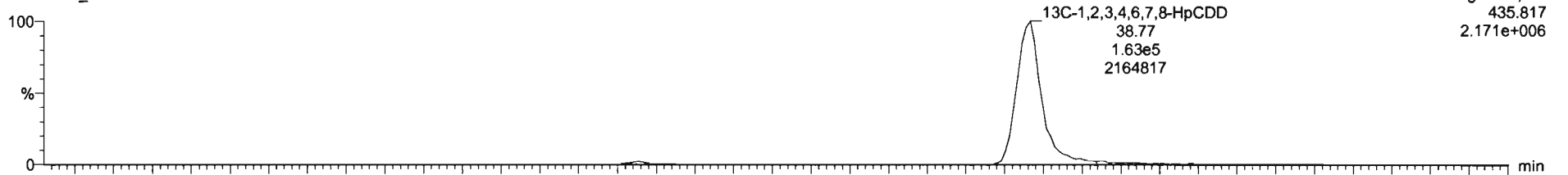


200605R1\_3

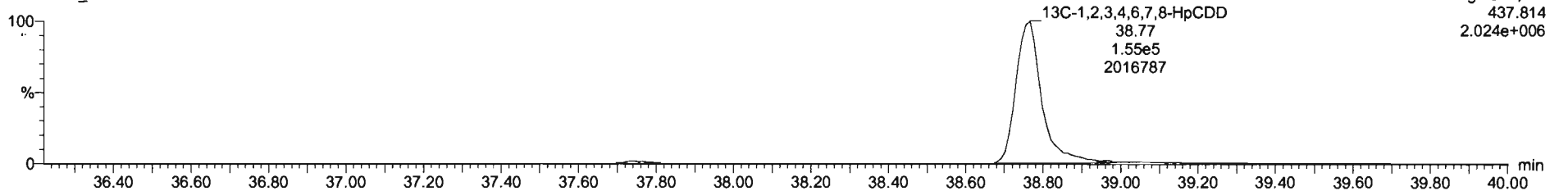


13C-1,2,3,4,6,7,8-HpCDD

200605R1\_3



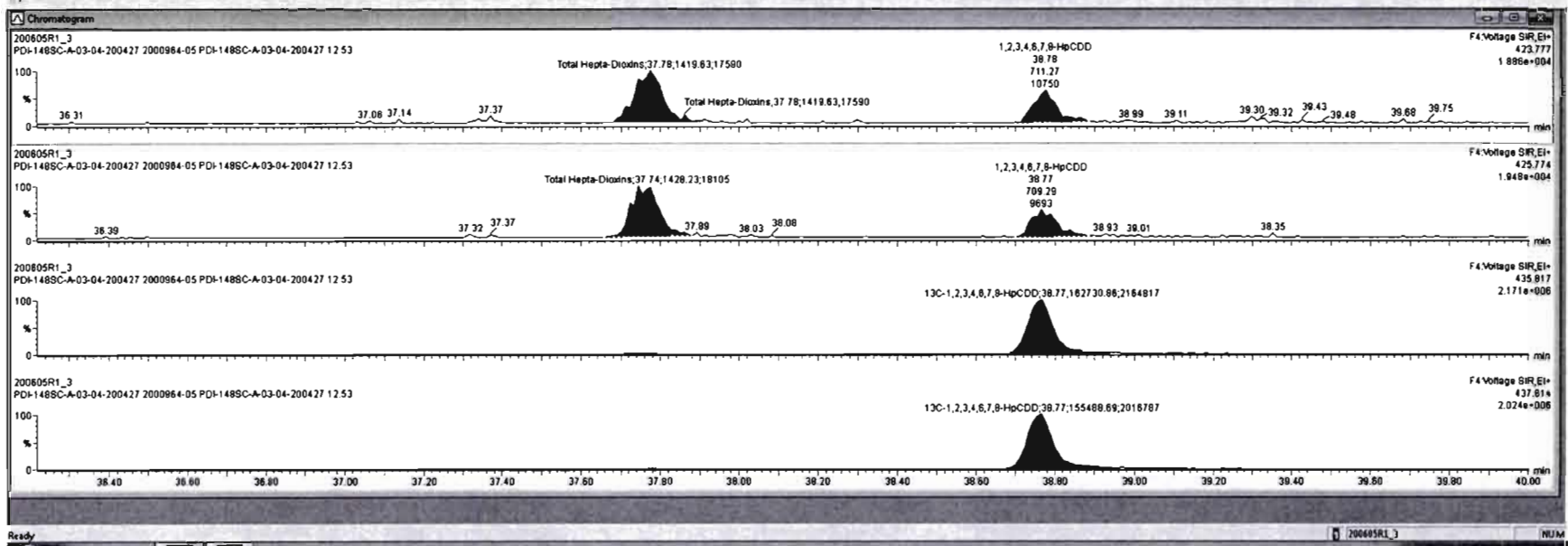
200605R1\_3





ID	Name	Resp	RA	n/y	RF	wt/vol	RT	RR	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.9091	10.036			0.415		0.0794	0.415
41	Total Hexa-Dioxins				0.8923	10.036			1.09		0.147	1.09
42	Total Hepta-Dioxins				0.8636	10.036			3.08		0.267	3.08
43	Total Tetra-Furans				0.7510	10.036					0.0172	
44	1st Func. Penta-Furans				0.8925	10.036					0.0122	
45	Total Penta-Furans				0.8925	10.036					0.0158	
46	Total Hexa-Furans				0.9341	10.036					0.0230	
47	Total Hepta-Furans				0.8734	10.036					0.0308	
49	PK1											

ID	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hepta-Dioxins	37.78	1.420e3	1.428e3	0.99	NO	2.0638	2.0638
2	1,2,3,4,6,7,8-HpCDD	38.78	7.113e2	7.083e2	1.00	NO	1.0294	1.0294





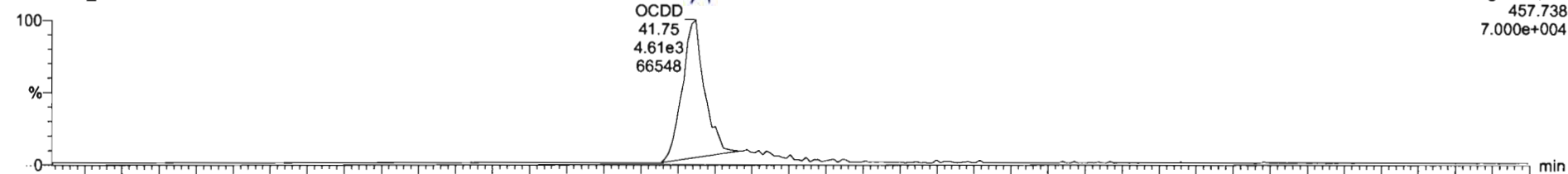
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Name: 200605R1\_3, Date: 05-Jun-2020, Time: 11:26:43, ID: 2000964-05 PDI-148SC-A-03-04-200427 12.53, Description: PDI-148SC-A-03-04-200427

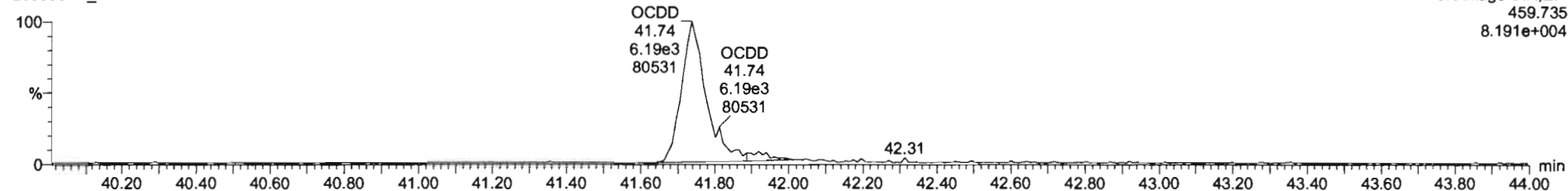
**OCDD**

200605R1\_3



F5:Voltage SIR,EI+  
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7.000e+004

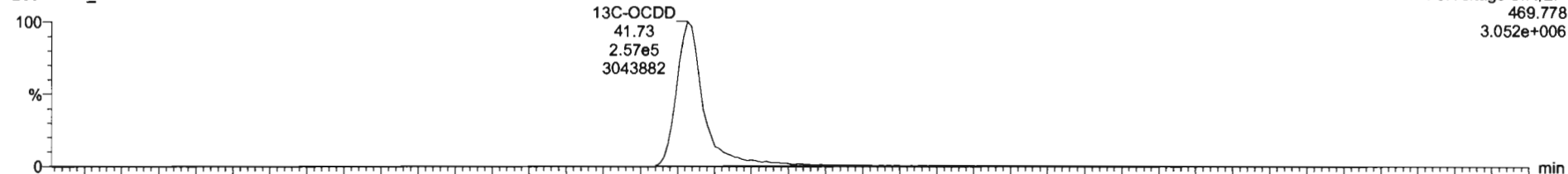
200605R1\_3



F5:Voltage SIR,EI+  
459.735  
8.191e+004

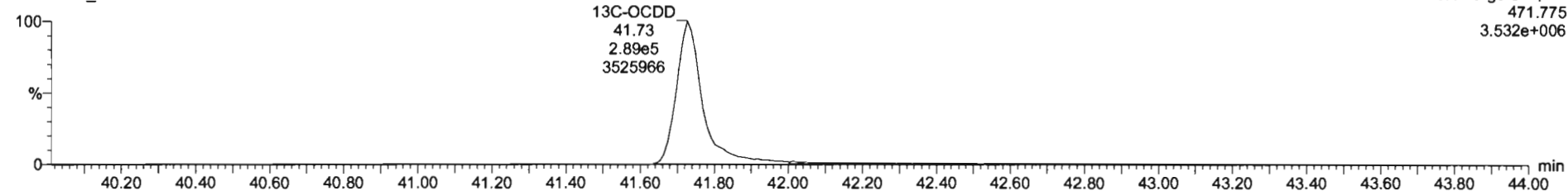
**13C-OCDD**

200605R1\_3



F5:Voltage SIR,EI+  
469.778  
3.052e+006

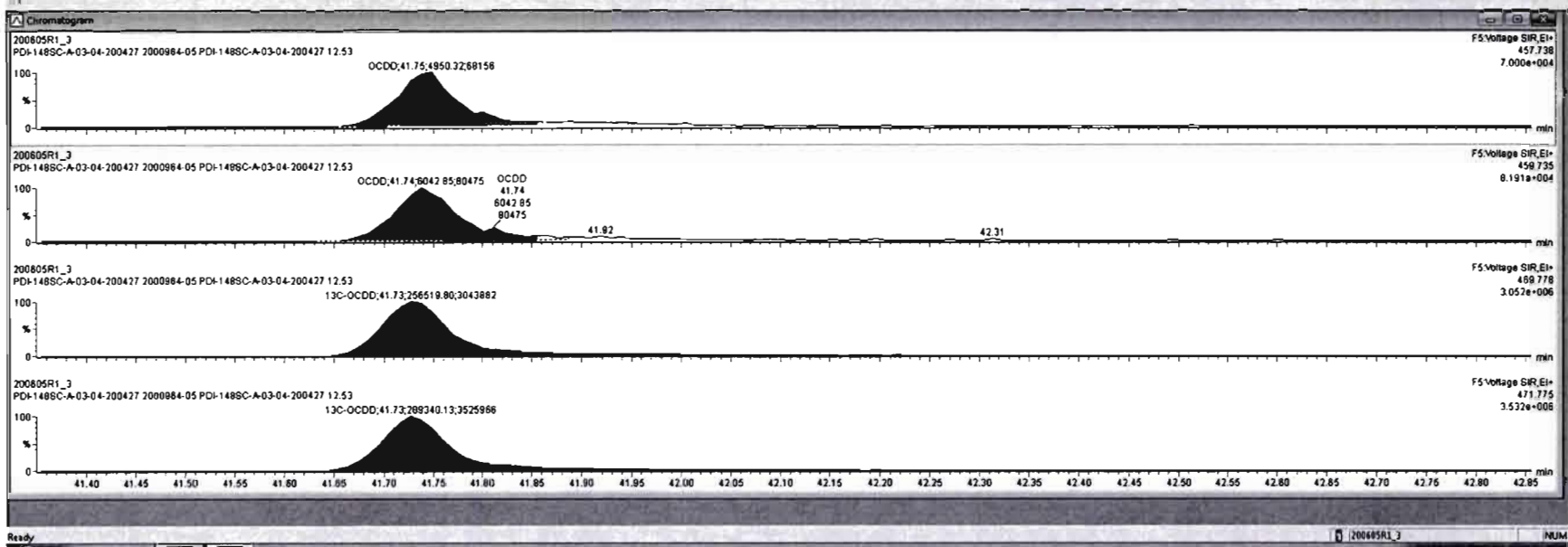
200605R1\_3



F5:Voltage SIR,EI+  
471.775  
3.532e+006

#	Name	Resp	RA	IVy	RF9F	wtVol	RT	RR1	Conc.	%Rec	DL	EMPC
7	OCDD	1.10e4	0.82	NO	0.9126	10.038	41.75	1.001	8.78		3.241	8.78
8	2,3,7,8-TCDF			NO	0.7510	10.038					0.0401	
9	1,2,3,7,8-PeCDF			NO	0.8925	10.038					0.0426	
10	2,3,4,7,8-PeCDF			NO	0.8348	10.038					0.0399	
11	1,2,3,4,7,8-HxCDF			NO	0.8845	10.038					0.0482	
12	1,2,3,6,7,8-HxCDF			NO	0.8802	10.038					0.0416	
13	2,3,4,6,7,8-HxCDF			NO	0.8341	10.038					0.0494	
14	1,2,3,7,8,9-HxCDF			NO	0.8707	10.038					0.0725	
15	1,2,3,4,6,7,8-HpCDF			NO	0.8734	10.038					0.0538	

#	Name	RT	m1 Resp	m2 Resp	RA	IVy	EMPC	Conc.
1								

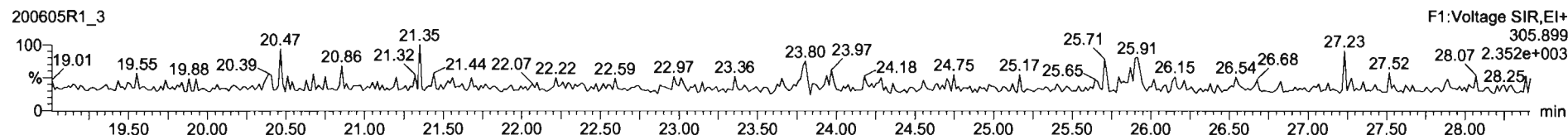
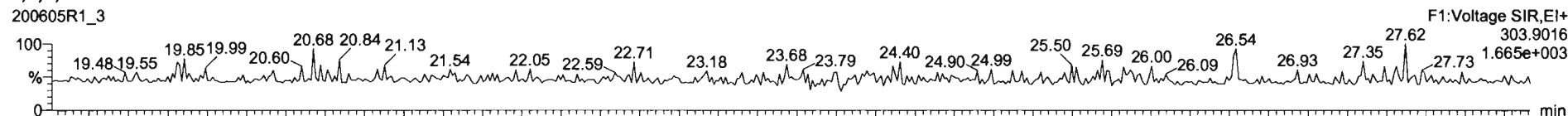


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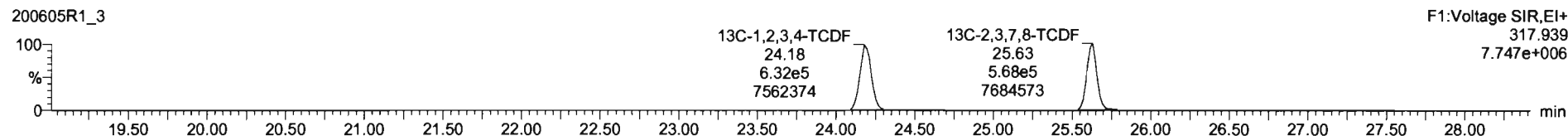
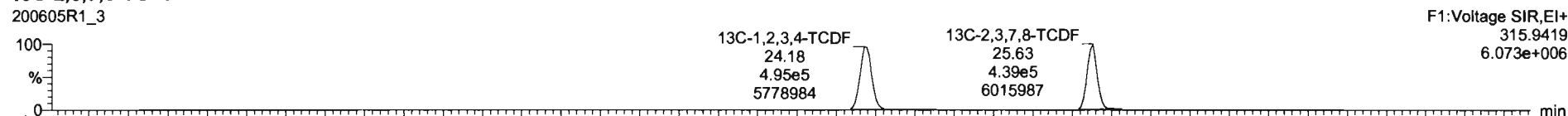
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Printed: Sunday, June 07, 2020 08:21:35 Pacific Daylight Time

Name: 200605R1\_3, Date: 05-Jun-2020, Time: 11:26:43, ID: 2000964-05 PDI-148SC-A-03-04-200427 12.53, Description: PDI-148SC-A-03-04-200427

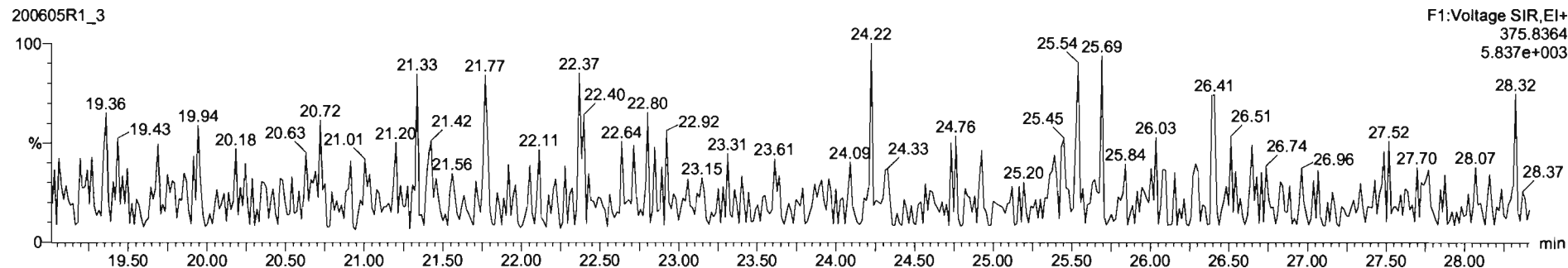
**2,3,7,8-TCDF**

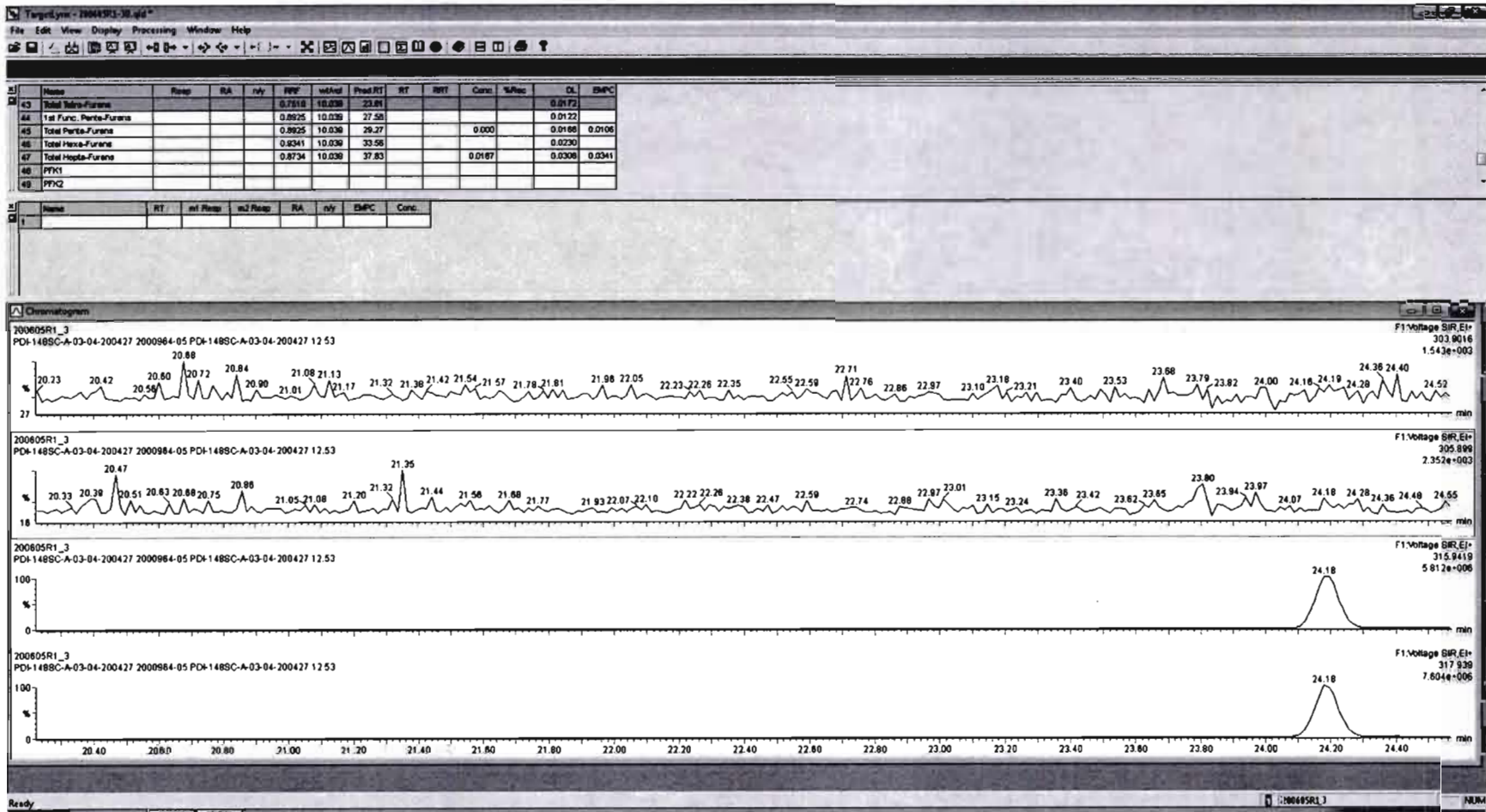


**13C-2,3,7,8-TCDF**



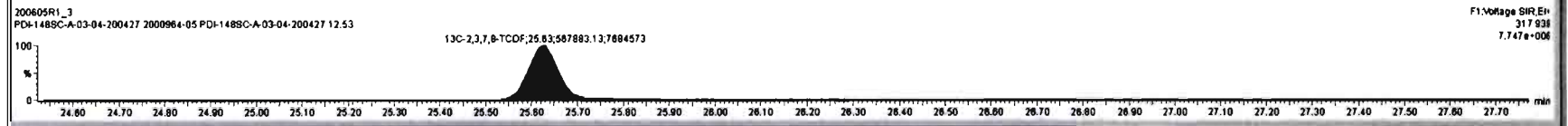
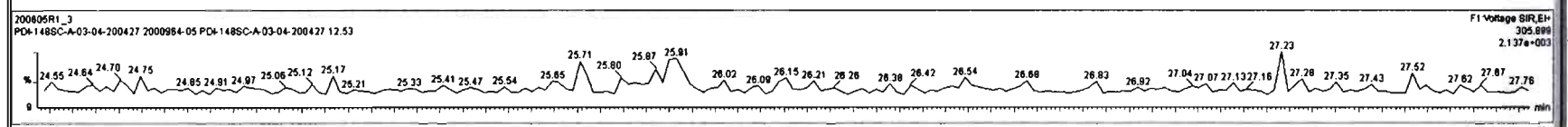
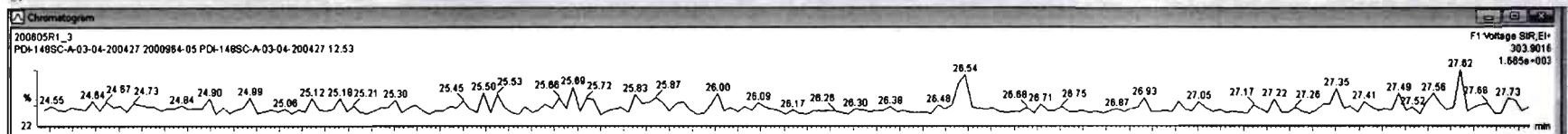
**DPE1**





43	Name	Resp	RA	nV	RWF	wtVol	Prod RT	RT	RRT	Conc.	%Rec	DL	EMPC
44	Total Para-Furane				0.7918	10.030	25.81					0.0122	
45	1st Func. Para-Furane				0.8925	10.030	27.50					0.0108	0.0106
46	Total Para-Furane				0.8941	10.030	33.58			0.000		0.0230	
47	Total Hepta-Furane				0.8734	10.030	37.83			0.0187		0.0308	0.0341
48	FFK1												
49	FFK2												

50	Name	RT	Int Resp	Int Raw	RA	nV	EMPC	Conc.
51								

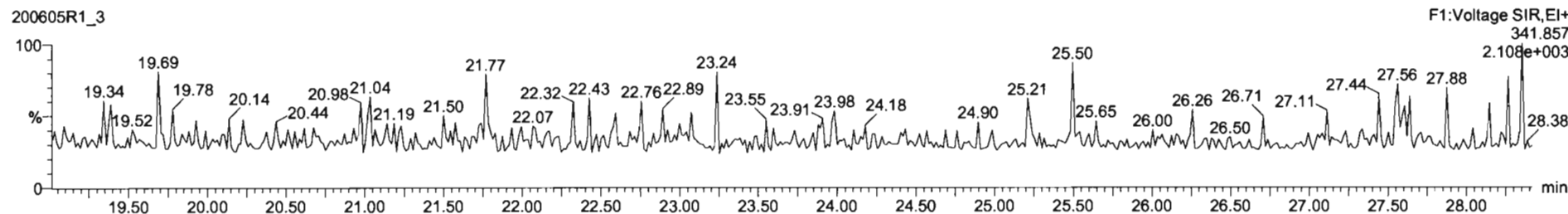
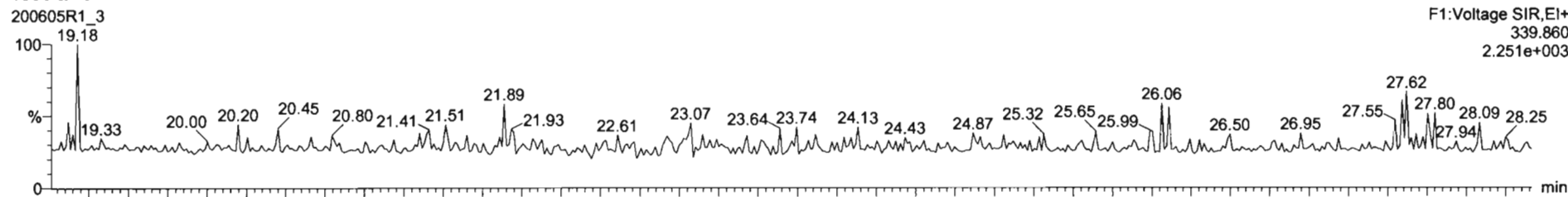


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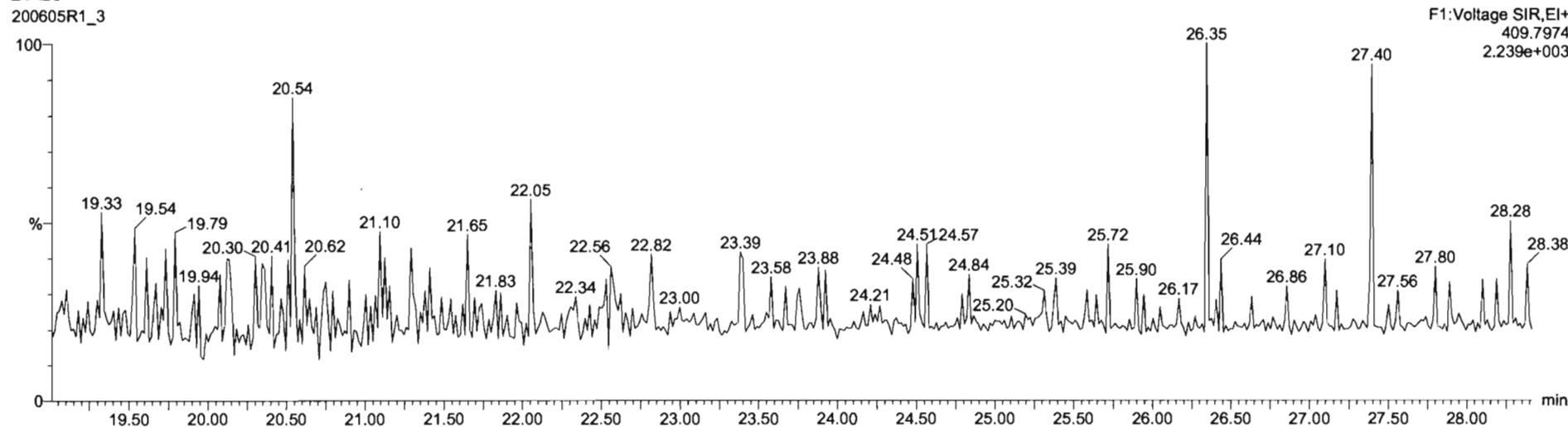
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Printed: Sunday, June 07, 2020 08:21:35 Pacific Daylight Time

Name: 200605R1\_3, Date: 05-Jun-2020, Time: 11:26:43, ID: 2000964-05 PDI-148SC-A-03-04-200427 12.53, Description: PDI-148SC-A-03-04-200427

1st Func. Penta-Furans



DPE6

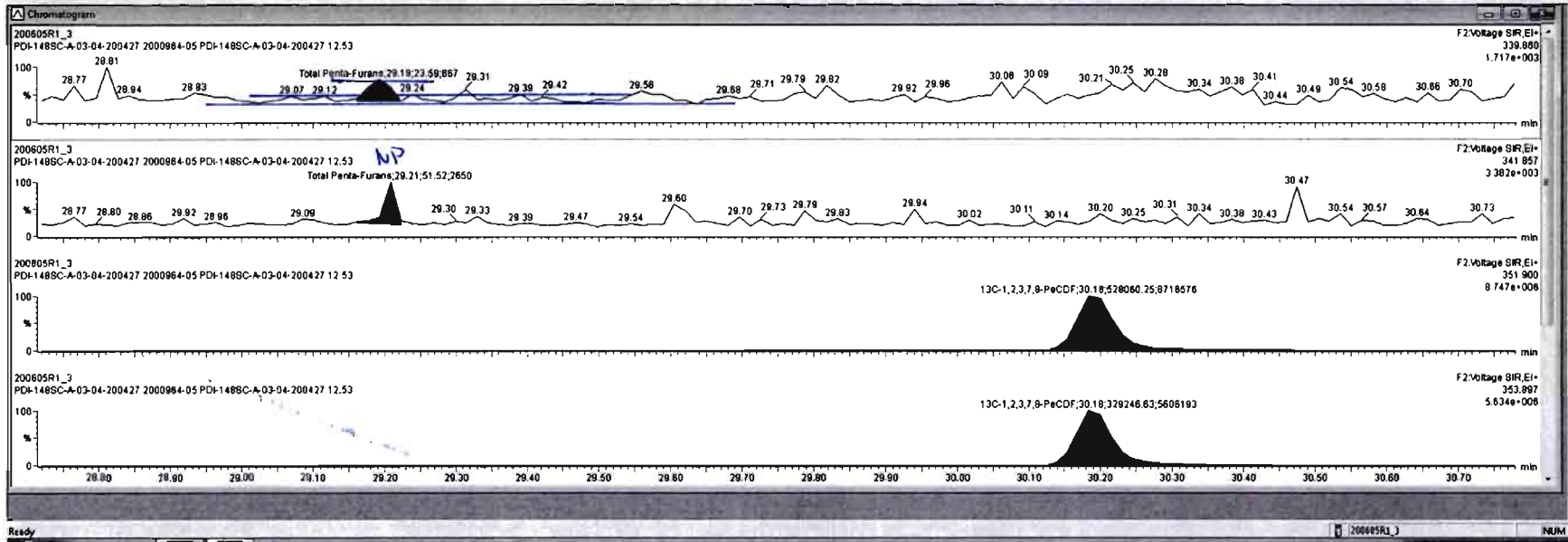






#	Name	Reap	RA	rvly	RPF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tota-Furans				0.7510	10.030						0.0172
44	1st Func. Penta-Furans				0.8925	10.030						0.0122
45	Total Hexa-Furans				0.5025	10.030			0.000		0.0100	0.0101
46	Total Hepta-Furans				0.5041	10.030						0.0230
47	Total Hepta-Furans				0.8734	10.030						0.0300
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											

#	Name	RT	int Ramp	int Ramp	RA	rvly	EMPC	Conc
1	Total Penta-Furans	29.19	2.359e1	5.152e1	0.46	YES	0.010135	0.00000



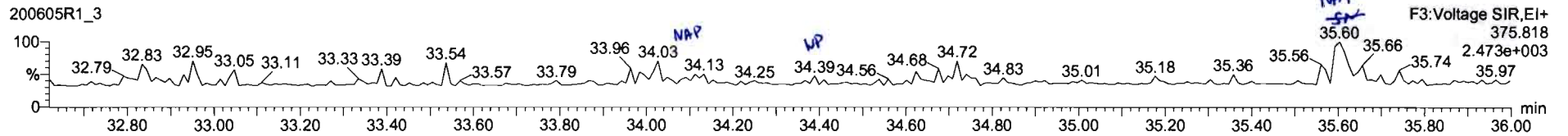
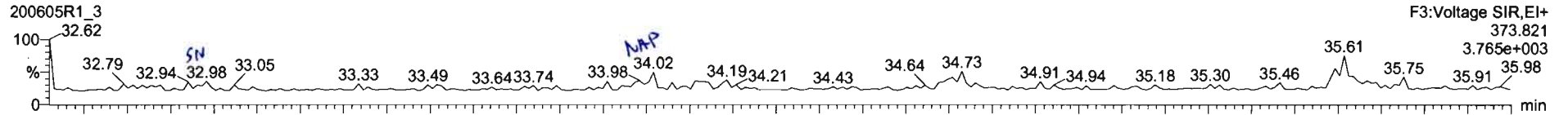
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Last Altered: Sunday, June 07, 2020 08:21:27 Pacific Daylight Time  
Printed: Sunday, June 07, 2020 08:21:35 Pacific Daylight Time

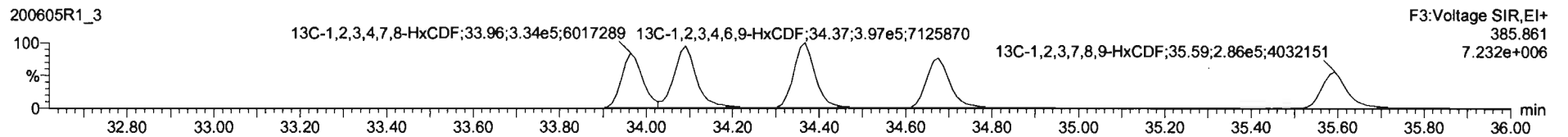
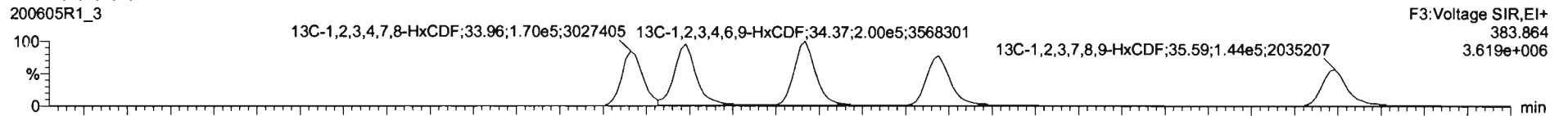
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HN 07/08/2020

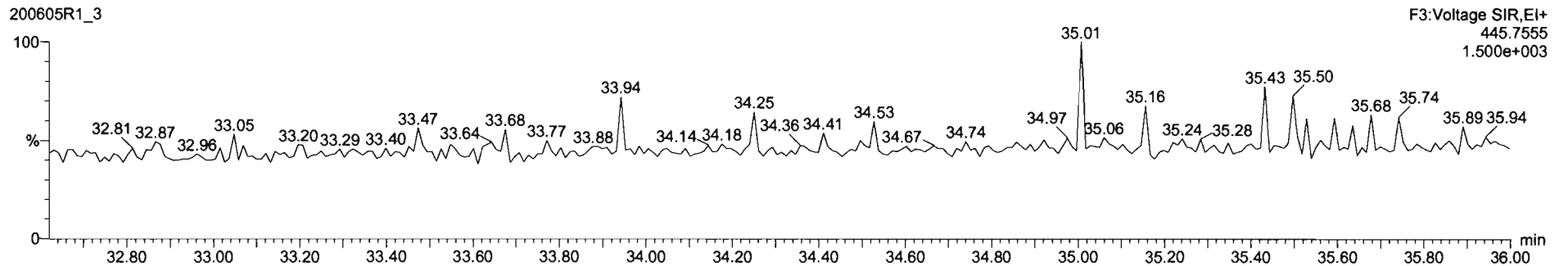
1,2,3,4,7,8-HxCDF

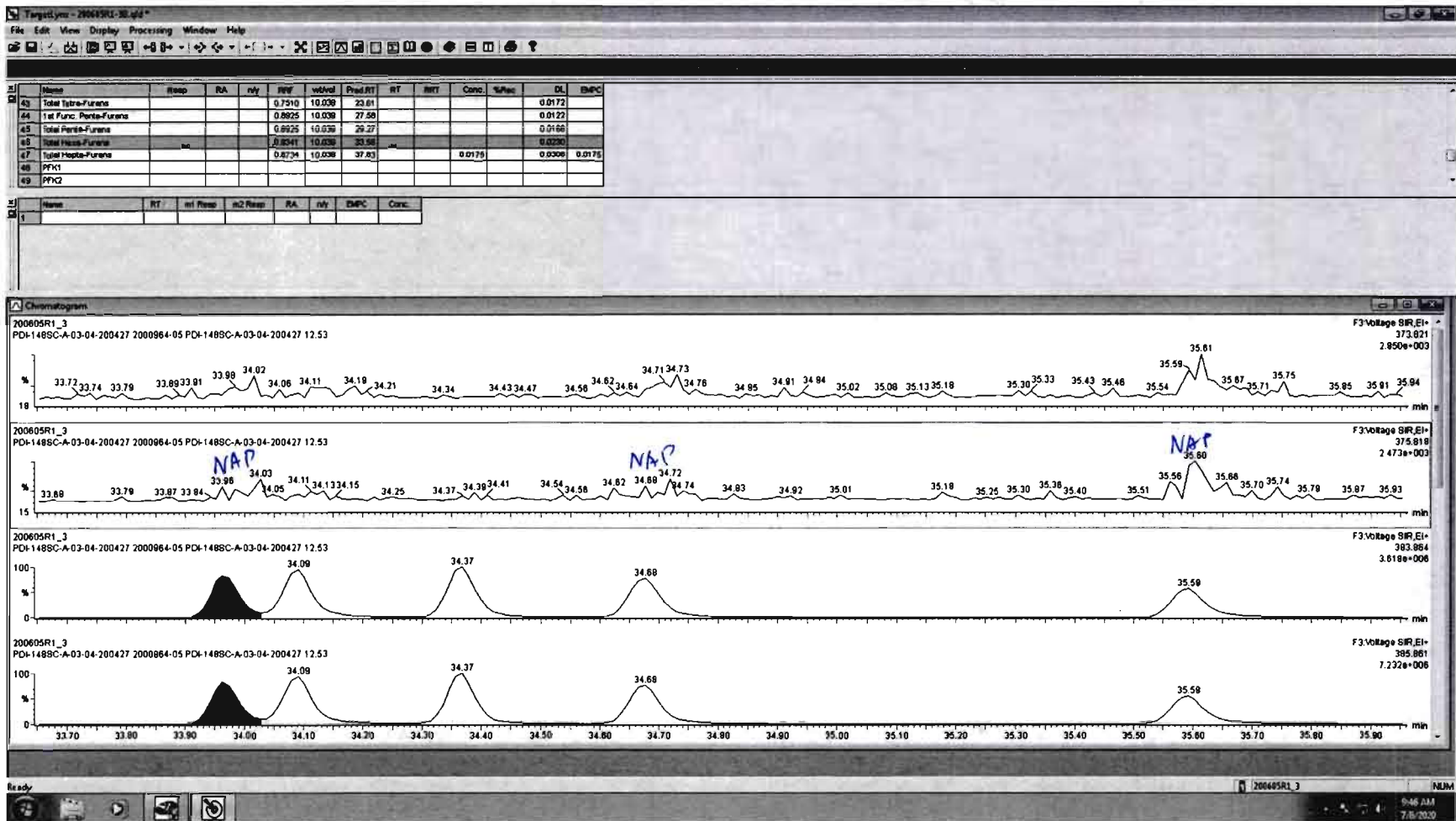


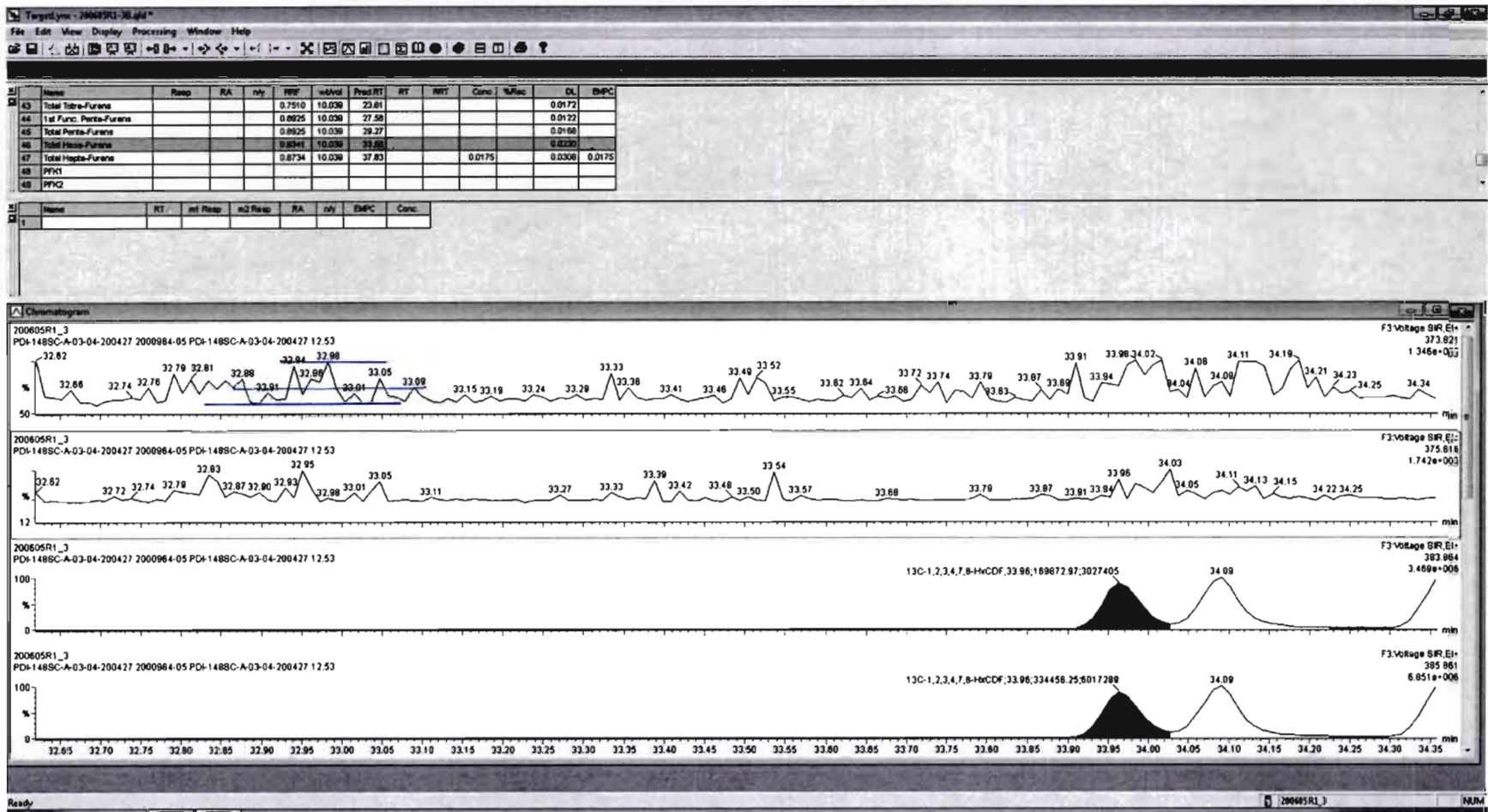
13C-1,2,3,4,7,8-HxCDF



DPE3









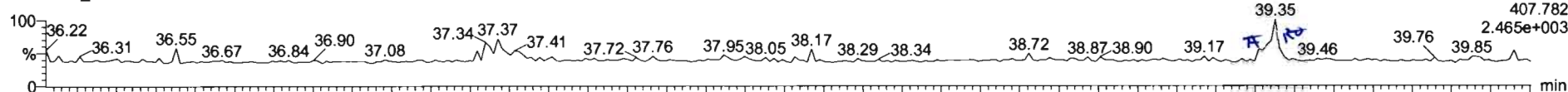
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Printed: Sunday, June 07, 2020 08:21:35 Pacific Daylight Time

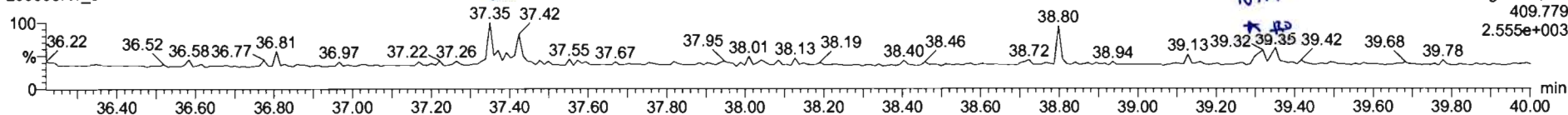
Name: 200605R1\_3, Date: 05-Jun-2020, Time: 11:26:43, ID: 2000964-05 PDI-148SC-A-03-04-200427 12.53, Description: PDI-148SC-A-03-04-200427

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

200605R1\_3

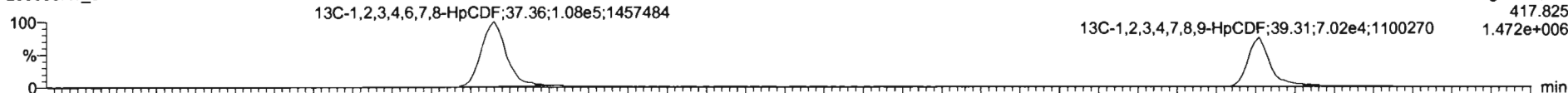


200605R1\_3

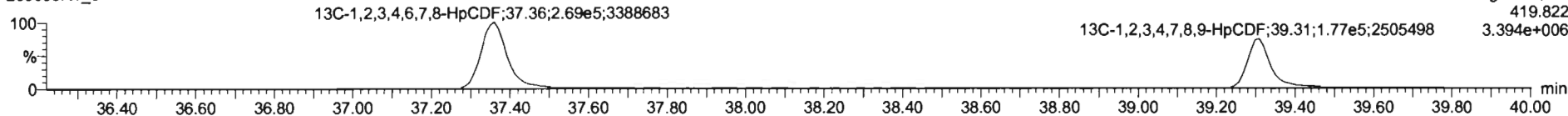


13C-1,2,3,4,6,7,8-HpCDF

200605R1\_3

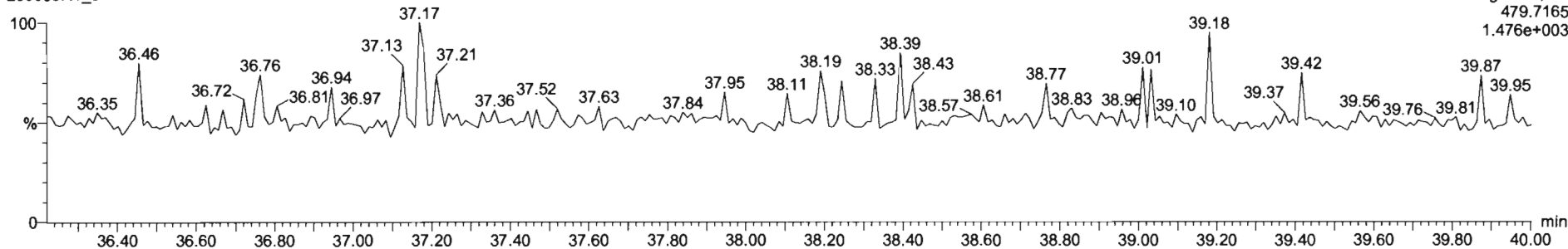


200605R1\_3



DPE4

200605R1\_3

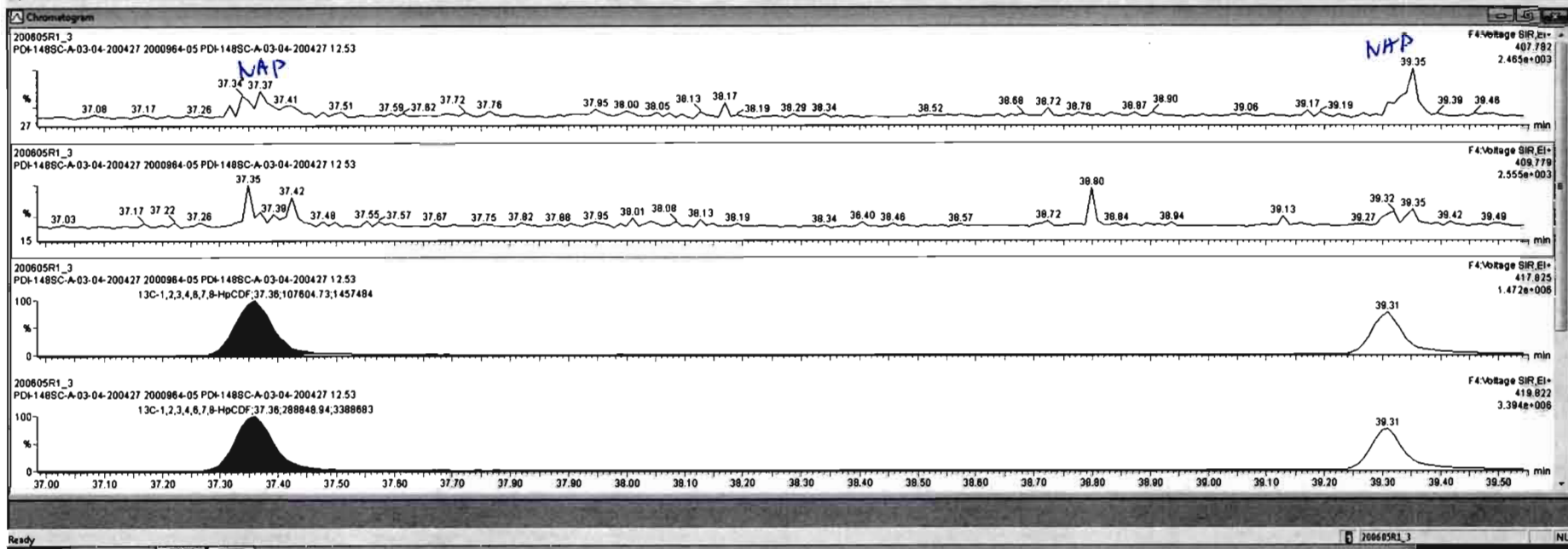




TargetLynx - 200605R1\_30.qtd  
 File Edit View Display Processing Window Help

Name	Resp	RA	nly	RP	wtAvt	Prod RT	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7510	10.039	23.61					0.0173	
44 1st Func. Penta-Furans				0.8925	10.039	27.58					0.0122	
45 Total Penta-Furans				0.8925	10.039	29.27					0.0168	
46 Total Hexa-Furans				0.8341	10.039	33.58					0.0230	
47 Total Hepta-Furans				0.8724	10.039	37.83					0.0308	
48 PFK1												
49 PFK2												

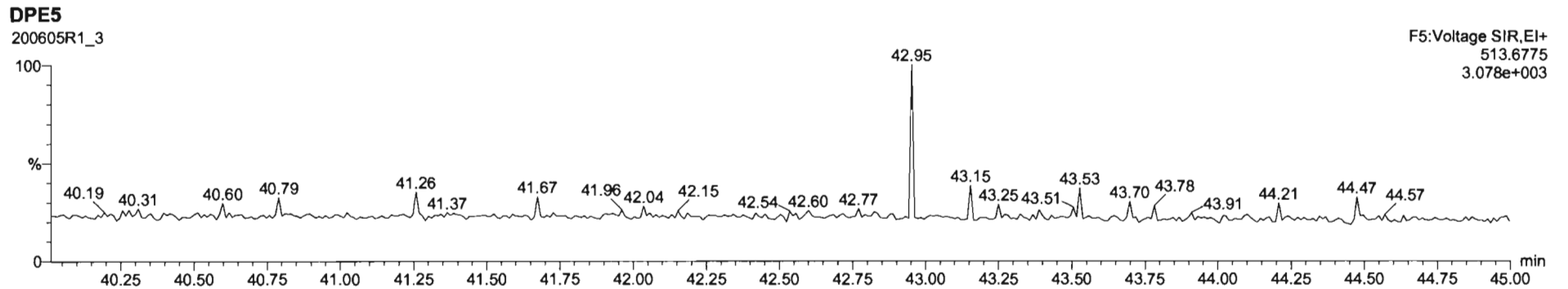
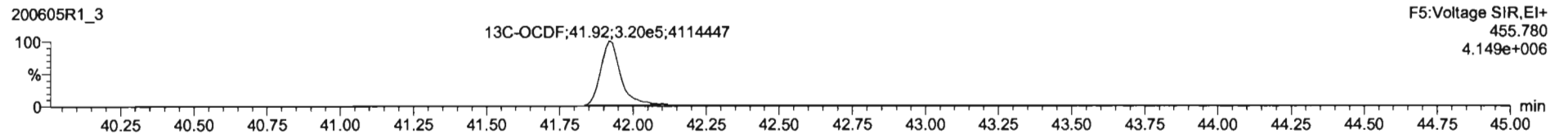
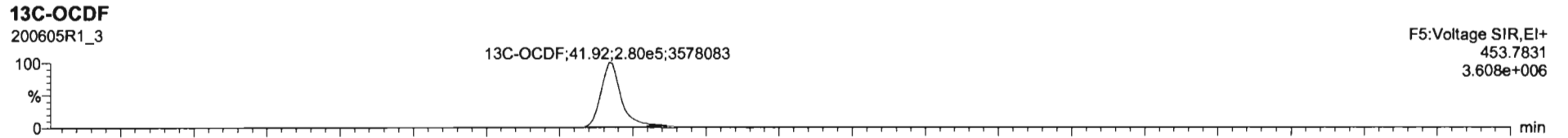
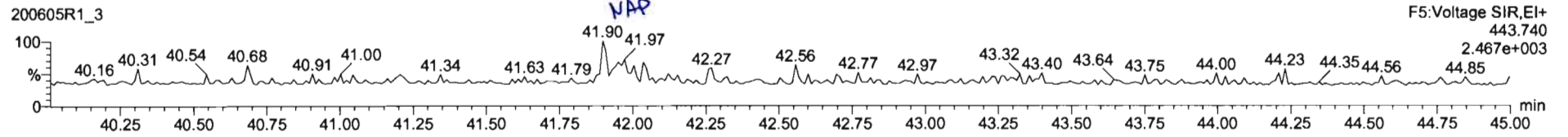
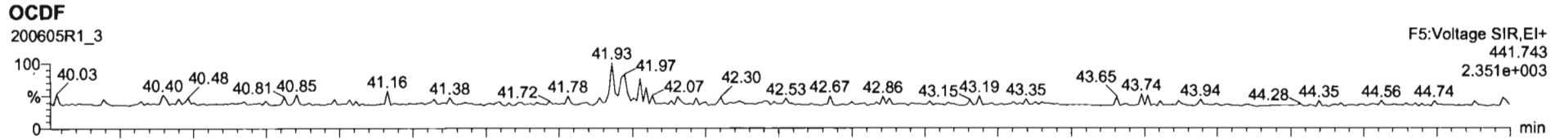
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.



Dataset: Untitled

Last Altered: Sunday, June 07, 2020 08:21:27 Pacific Daylight Time  
Printed: Sunday, June 07, 2020 08:21:35 Pacific Daylight Time

Name: 200605R1\_3, Date: 05-Jun-2020, Time: 11:26:43, ID: 2000964-05 PDI-148SC-A-03-04-200427 12.53, Description: PDI-148SC-A-03-04-200427

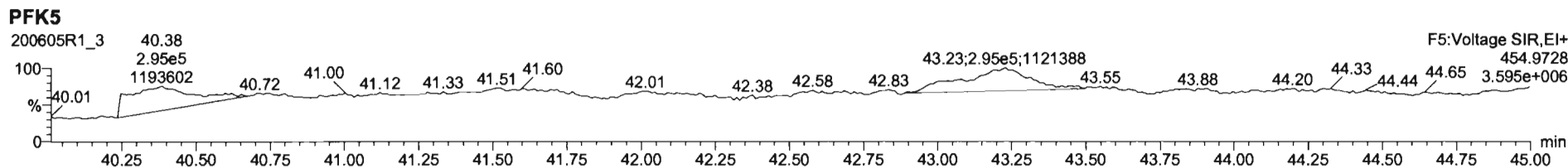
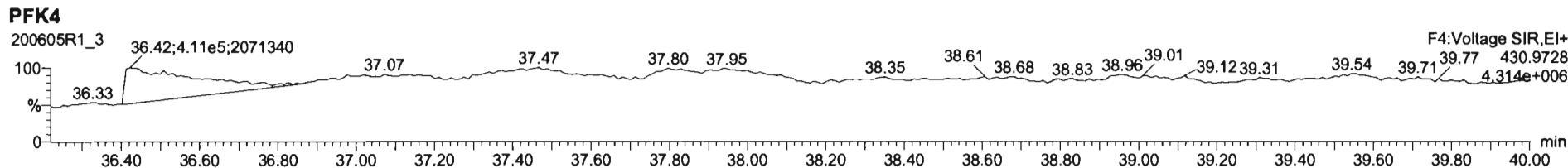
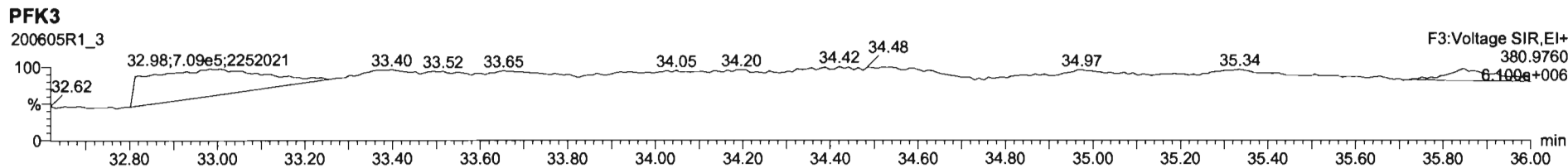
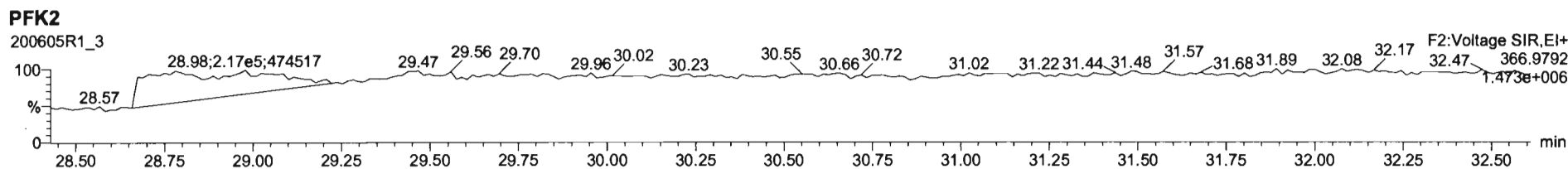
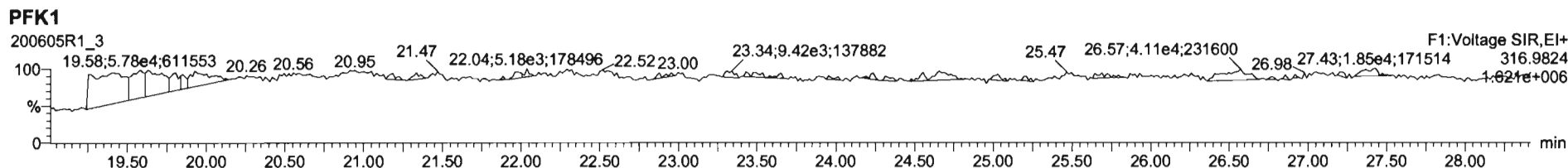


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Last Altered: Sunday, June 07, 2020 08:21:27 Pacific Daylight Time

Printed: Sunday, June 07, 2020 08:21:35 Pacific Daylight Time

Name: 200605R1\_3, Date: 05-Jun-2020, Time: 11:26:43, ID: 2000964-05 PDI-148SC-A-03-04-200427 12.53, Description: PDI-148SC-A-03-04-200427



Dataset: U:\VG12.PRO\Results\200605R1\200605R1-4B.qld

Last Altered: Wednesday, July 08, 2020 10:28:48 AM Pacific Daylight Time

Printed: Wednesday, July 08, 2020 10:32:36 AM Pacific Daylight Time

*HN 07/08/2020*

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

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

*C1 07/16/2020*

Name: 200605R1\_4, Date: 05-Jun-2020, Time: 12:12:59, ID: 2000964-06 PDI-148SC-A-04-05-200427 11.5, Description: PDI-148SC-A-04-05-200427

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD												0.0820	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.051	31.488		1.001				0.103	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.051	34.836		1.000				0.0943	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.051	34.932		1.000				0.0916	
5	5 1,2,3,7,8,9-HxCDD				0.887	10.051	35.231		1.000				0.0525	
6	6 1,2,3,4,6,7,8-HpCDD	8.83e2	0.90	NO	0.864	10.051	38.768	38.76	1.000	1.000	0.71737		0.108	0.717
7	7 OCDD	6.51e3	0.85	NO	0.914	10.051	41.727	41.73	1.000	1.000	5.8764		0.111	5.88
8	8 2,3,7,8-TCDF												0.0429	
9	9 1,2,3,7,8-PeCDF												0.0380	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.051	31.192		1.001				0.0346	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.051	33.952		1.000				0.0403	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.051	34.090		1.000				0.0362	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.051	34.690		1.001				0.0394	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.051	35.571		1.000				0.0617	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.051	37.387		1.001				0.0506	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.051	39.288		1.000				0.0570	
17	17 OCDF			NO	0.806	10.051	41.908		1.000				0.113	
18	18 13C-2,3,7,8-TCDD	7.48e5	0.76	NO	1.16	10.051	26.538	26.50	1.026	1.025	168.98	84.9	0.258	
19	19 13C-1,2,3,7,8-PeCDD	5.33e5	0.62	NO	0.849	10.051	31.729	31.47	1.227	1.217	163.90	82.4	0.308	
20	20 13C-1,2,3,4,7,8-HxCDD	3.57e5	1.27	NO	0.779	10.051	34.841	34.83	1.014	1.014	152.64	76.7	0.694	
21	21 13C-1,2,3,6,7,8-HxCDD	4.71e5	1.24	NO	1.02	10.051	34.955	34.93	1.017	1.017	154.27	77.5	0.532	
22	22 13C-1,2,3,7,8,9-HxCDD	4.02e5	1.25	NO	0.903	10.051	35.226	35.22	1.025	1.025	148.29	74.5	0.599	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.83e5	1.06	NO	0.689	10.051	38.751	38.76	1.128	1.128	136.87	68.8	0.472	
24	24 13C-OCDD	4.82e5	0.88	NO	0.652	10.051	41.775	41.73	1.216	1.215	246.23	61.9	0.571	
25	25 13C-2,3,7,8-TCDF	9.05e5	0.77	NO	1.06	10.051	25.578	25.61	0.989	0.991	150.50	75.6	0.359	
26	26 13C-1,2,3,7,8-PeCDF	8.09e5	1.57	NO	0.838	10.051	30.111	30.18	1.165	1.167	170.04	85.5	0.577	
27	27 13C-2,3,4,7,8-PeCDF	8.12e5	1.65	NO	0.817	10.051	31.065	31.16	1.202	1.205	175.15	88.0	0.592	
28	28 13C-1,2,3,4,7,8-HxCDF	4.75e5	0.50	NO	1.01	10.051	33.972	33.95	0.989	0.988	156.91	78.9	0.678	
29	29 13C-1,2,3,6,7,8-HxCDF	5.64e5	0.51	NO	1.17	10.051	34.096	34.08	0.992	0.992	160.93	80.9	0.586	
30	30 13C-2,3,4,6,7,8-HxCDF	4.96e5	0.49	NO	1.02	10.051	34.670	34.65	1.009	1.009	161.59	81.2	0.669	
31	31 13C-1,2,3,7,8,9-HxCDF	3.87e5	0.52	NO	0.860	10.051	35.570	35.57	1.035	1.035	149.73	75.2	0.795	

Dataset: U:\VG12.PRO\Results\200605R1\200605R1-4B.qld

Last Altered: Wednesday, July 08, 2020 10:28:48 AM Pacific Daylight Time  
Printed: Wednesday, July 08, 2020 10:32:36 AM Pacific Daylight Time

Name: 200605R1\_4, Date: 05-Jun-2020, Time: 12:12:59, ID: 2000964-06 PDI-148SC-A-04-05-200427 11.5, Description: PDI-148SC-A-04-05-200427

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.45e5	0.41	NO	0.774	10.051	37.319	37.35	1.086	1.087	148.05	74.4	0.618	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.27e5	0.41	NO	0.521	10.051	39.349	39.29	1.145	1.144	144.74	72.7	0.918	
34	34 13C-OCDF	5.49e5	0.89	NO	0.746	10.051	41.946	41.91	1.221	1.220	245.18	61.6	0.539	
35	35 37Cl-2,3,7,8-TCDD	3.10e5			1.04	10.051	26.569	26.53	1.028	1.026	78.096	98.1	0.0640	
36	36 13C-1,2,3,4-TCDD	7.62e5	0.79	NO	1.00	10.051	25.890	25.85	1.000	1.000	198.98	100	0.298	
37	37 13C-1,2,3,4-TCDF	1.13e6	0.78	NO	1.00	10.051	24.360	24.18	1.000	1.000	198.98	100	0.380	
38	38 13C-1,2,3,4,6,9-HxCDF	5.98e5	0.50	NO	1.00	10.051	34.420	34.36	1.000	1.000	198.98	100	0.684	
39	39 Total Tetra-Dioxins				0.888	10.051	24.620		0.000		0.20660		0.0820	0.207
40	40 Total Penta-Dioxins				0.908	10.051	29.960		0.000		0.00000		0.0391	0.0715
41	41 Total Hexa-Dioxins				0.892	10.051	33.635		0.000		0.62199		0.103	0.622
42	42 Total Hepta-Dioxins				0.864	10.051	37.640		0.000		1.8464		0.108	1.85
43	43 Total Tetra-Furans				0.751	10.051	23.610		0.000		0.00000		0.0161	0.00723
44	44 1st Func. Penta-Furans				0.893	10.051	27.580		0.000				0.00952	
45	45 Total Penta-Furans				0.893	10.051	29.275		0.000				0.0205	
46	46 Total Hexa-Furans				0.934	10.051	33.555		0.000				0.0212	
47	47 Total Hepta-Furans				0.873	10.051	37.835		0.000				0.0259	



Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200605R1\200605R1-4B.qld

Last Altered: Wednesday, July 08, 2020 10:28:48 AM Pacific Daylight Time

Printed: Wednesday, July 08, 2020 10:32:36 AM Pacific Daylight Time

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

Calibration: U:\VG12.PRO\CurveDB\ldb5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200605R1\_4, Date: 05-Jun-2020, Time: 12:12:59, ID: 2000964-06 PDI-148SC-A-04-05-200427 11.5, Description: PDI-148SC-A-04-05-200427

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.33	3.862e3	5.147e3	3.201e2	3.699e2	0.87	NO	6.900e2	0.20660	0.20660	0.0820

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.74	1.649e3	4.084e3	6.724e1	2.190e2	0.31	YES	0.000e0	0.00000	0.071547	0.0391

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.35	1.201e4	9.948e3	6.508e2	4.934e2	1.32	NO	1.144e3	0.62199	0.62199	0.103

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.74	1.023e4	9.311e3	7.301e2	6.592e2	1.11	NO	1.389e3	1.1291	1.1291	0.108
2	1,2,3,4,6,7,8-HpCDD	38.76	6.000e3	6.766e3	4.175e2	4.652e2	0.90	NO	8.827e2	0.71737	0.71737	0.108

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	24.67	3.410e2	7.690e2	1.075e1	2.475e1	0.43	YES	0.000e0	0.00000	0.00723...	0.0161

**Penta-Furans function 1**

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



Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200605R1\200605R1-4B.qld

Last Altered: Wednesday, July 08, 2020 10:28:48 AM Pacific Daylight Time

Printed: Wednesday, July 08, 2020 10:32:36 AM Pacific Daylight Time

Name: 200605R1\_4, Date: 05-Jun-2020, Time: 12:12:59, ID: 2000964-06 PDI-148SC-A-04-05-200427 11.5, Description: PDI-148SC-A-04-05-200427

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

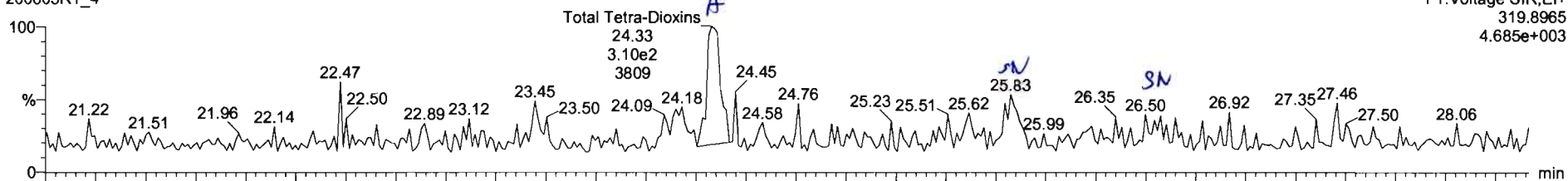
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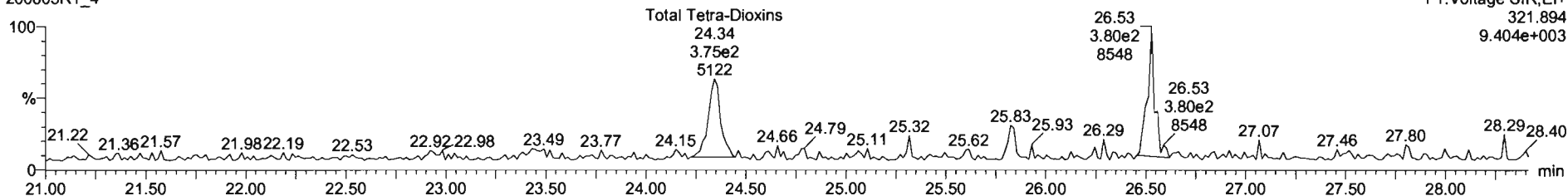
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**2,3,7,8-TCDD**

200605R1\_4

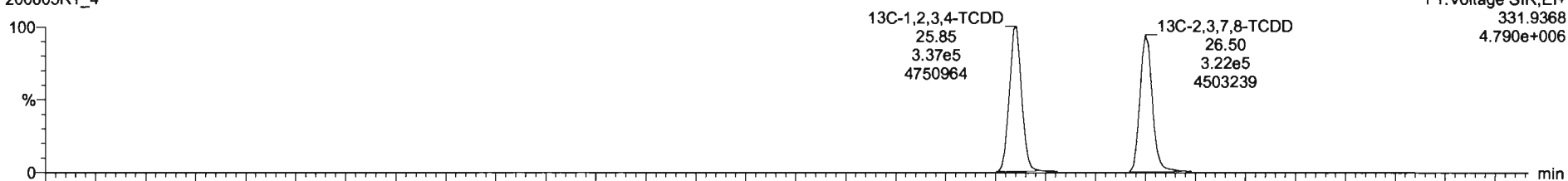


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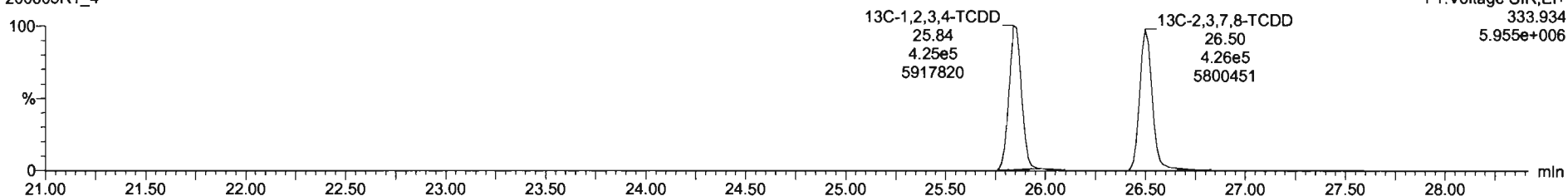


**13C-2,3,7,8-TCDD**

200605R1\_4

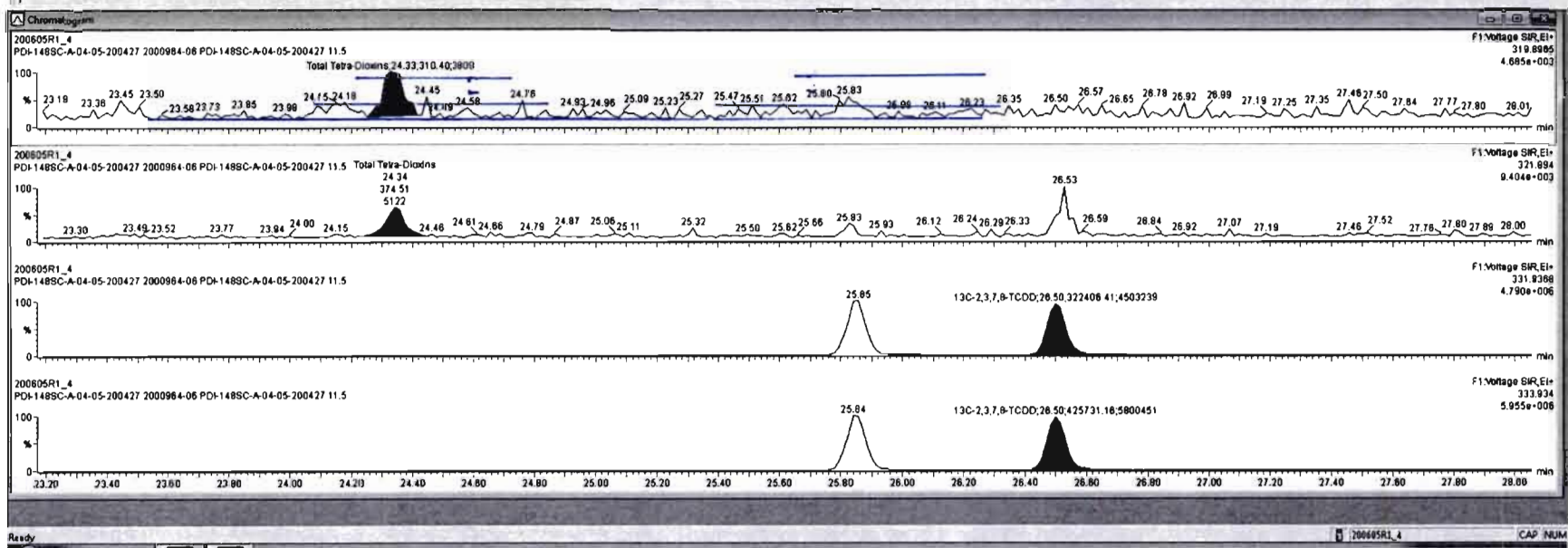


200605R1\_4



SL	Name	Resp	RA	nHy	RRF	Method	RT	PRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8953	10.051			0.205		0.0920	0.205
40	Total Penta-Dioxins				0.9001	10.051					0.103	0.824
41	Total Hexa-Dioxins				0.8923	10.051			0.824		0.209	1.98
42	Total Hepta-Dioxins				0.8638	10.051			1.26		0.2151	
43	Total Tetra-Furans				0.7510	10.051					0.0952	
44	1st Func. Penta-Furans				0.8825	10.051					0.0205	
45	Total Penta-Furans				0.8825	10.051					0.0212	
46	Total Hexa-Furans				0.8341	10.051					0.0259	
47	Total Hepta-Furans				0.8734	10.051						

Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc
Total Tetra-Dioxins	24.33	3.104e2	3.745e2	0.83	NO	0.20500	0.20507



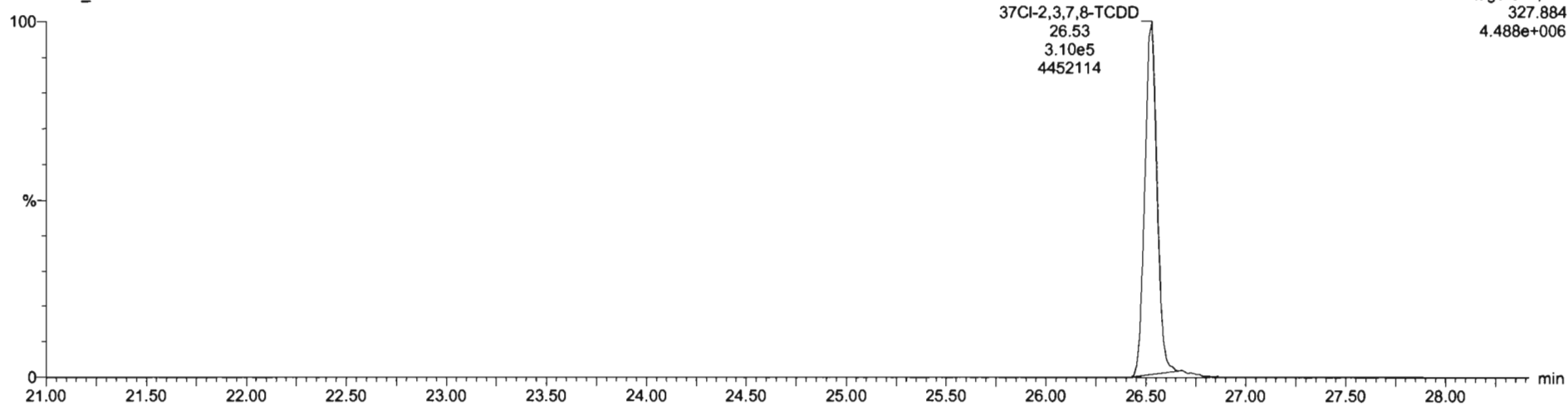
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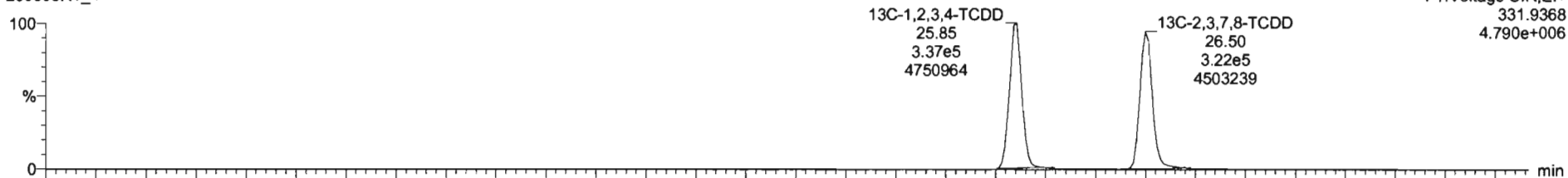
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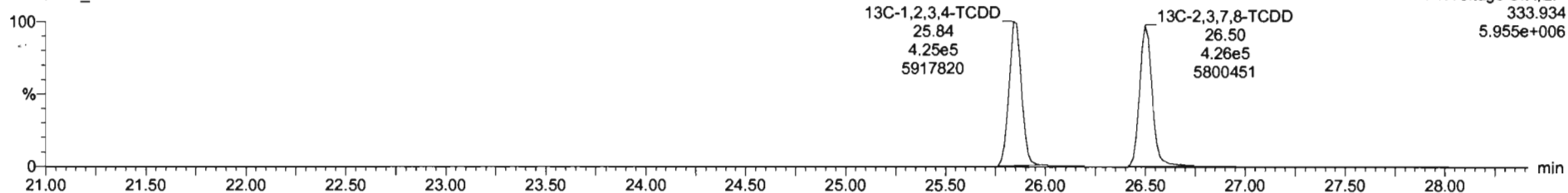


**13C-1,2,3,4-TCDD**

200605R1\_4



200605R1\_4



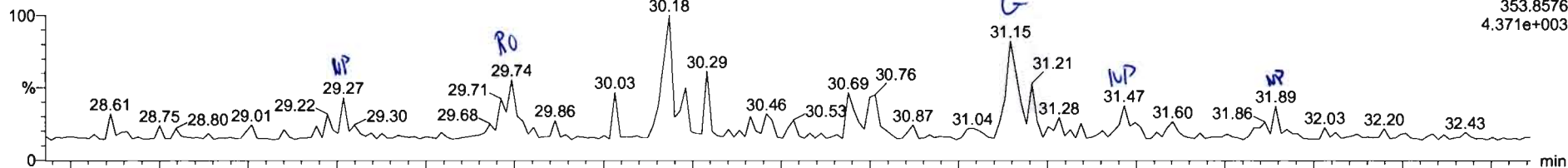
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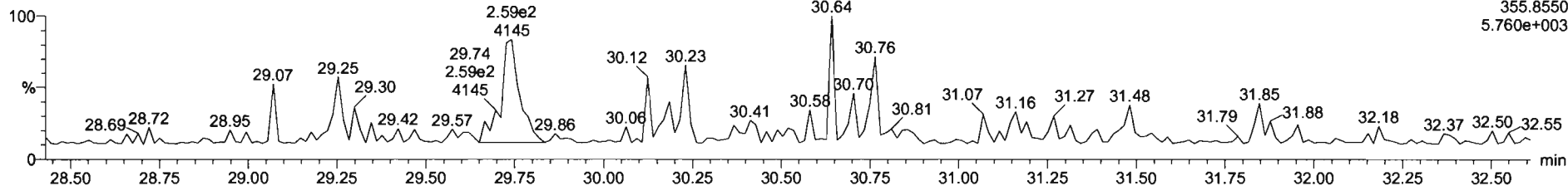
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1,2,3,7,8-PeCDD

200605R1\_4

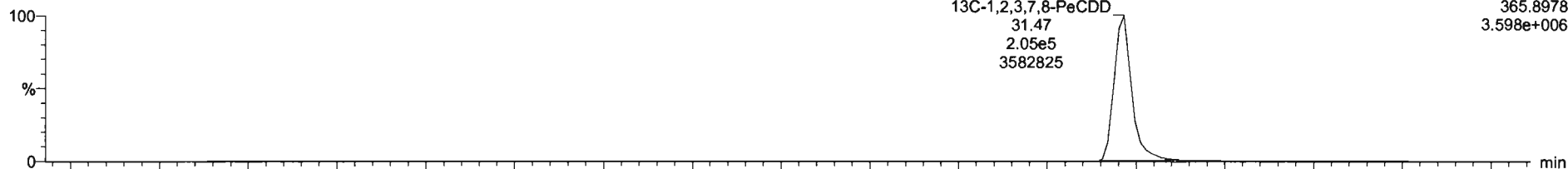


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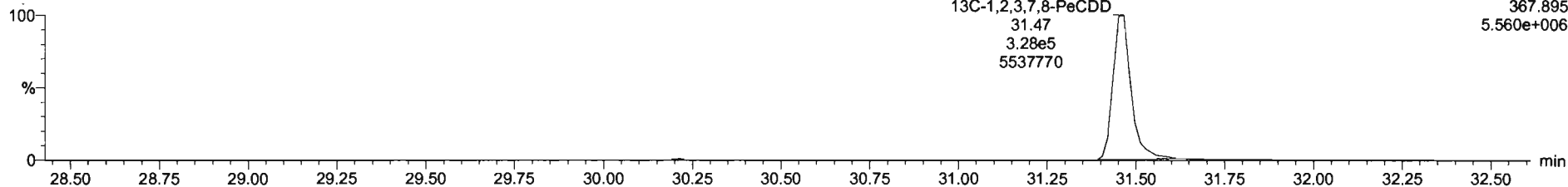


13C-1,2,3,7,8-PeCDD

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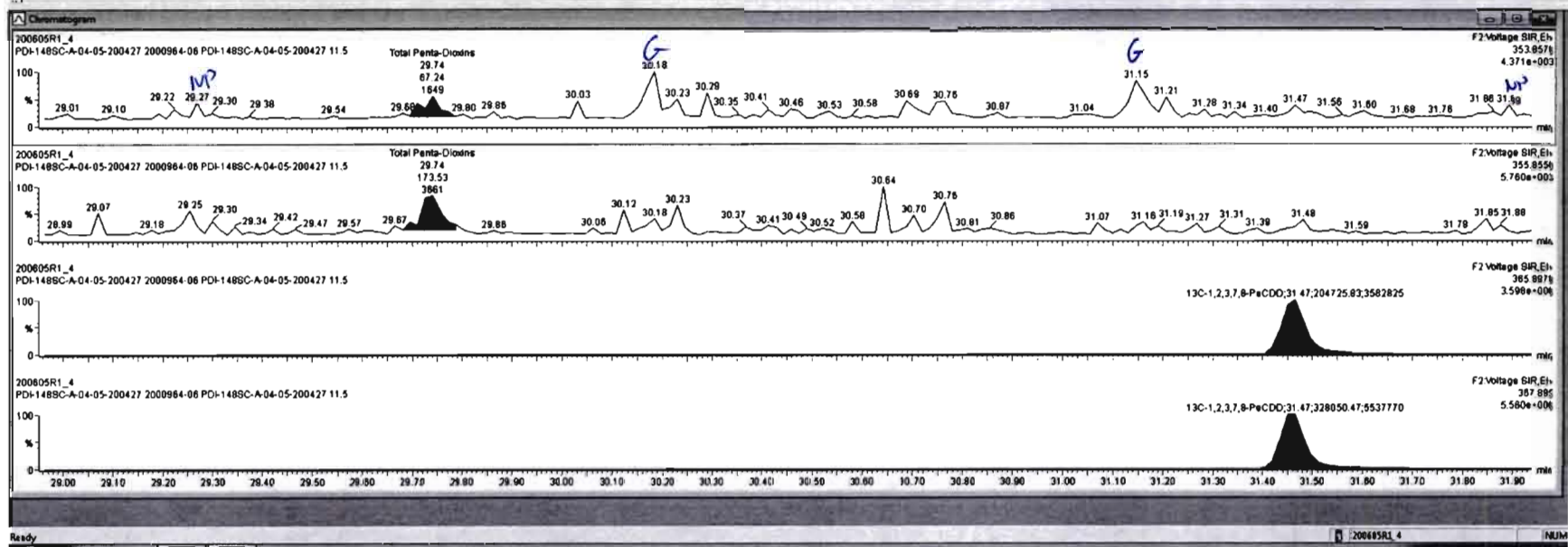


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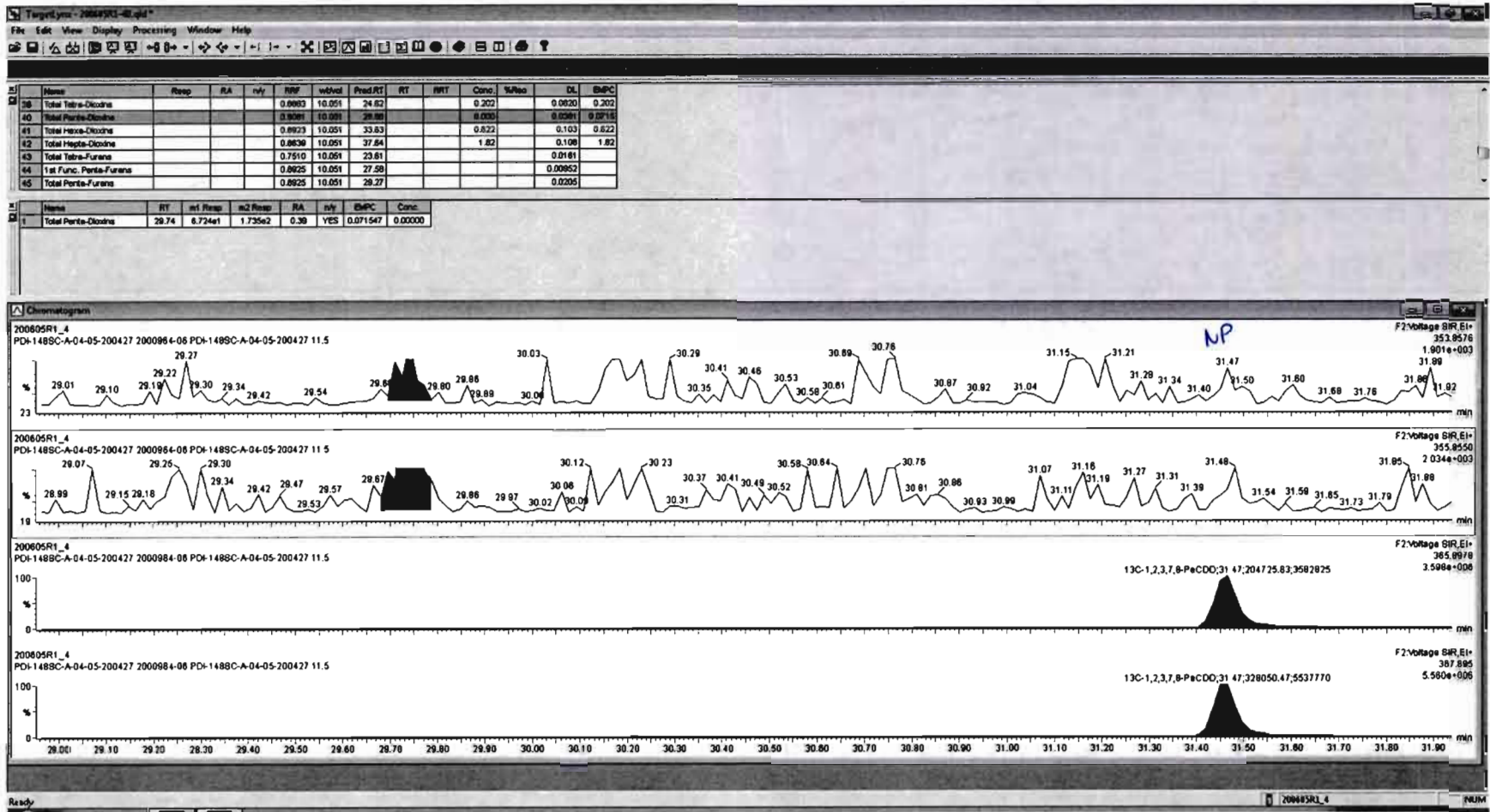


Name	Resp	RA	n/y	RFV	wt/val	Prod.RT	RT	IRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.0003	10.051	24.62			0.202	0.0020	0.202	
40 Total Penta-Dioxins				0.0091	10.051	26.86			0.700	0.0291	0.0715	
41 Total Hexa-Dioxins				0.0023	10.051	33.63			0.022	0.103	0.022	
42 Total Hepta-Dioxins				0.0030	10.051	37.84			1.82	0.108	1.82	
43 Total Tetra-Furans				0.7510	10.051	23.81				0.0161		
44 1st Func. Penta-Furans				0.0025	10.051	27.59				0.00952		
45 Total Penta-Furans				0.0023	10.051	29.27						

Name	RT	wt Resp	in2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	29.74	8.724e1	1.735e2	0.39	YES	0.071547	0.00000







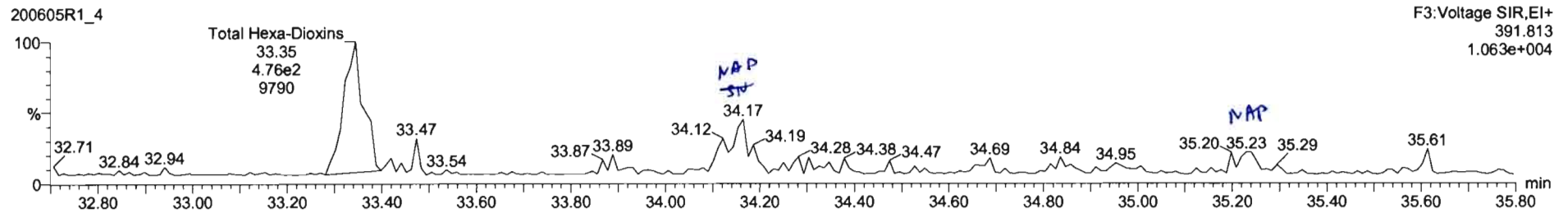
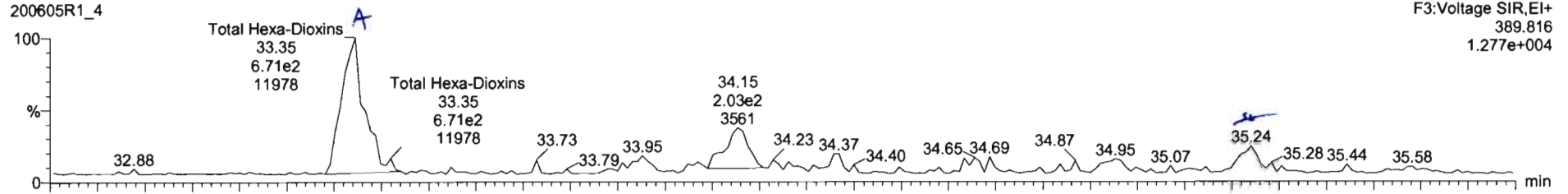
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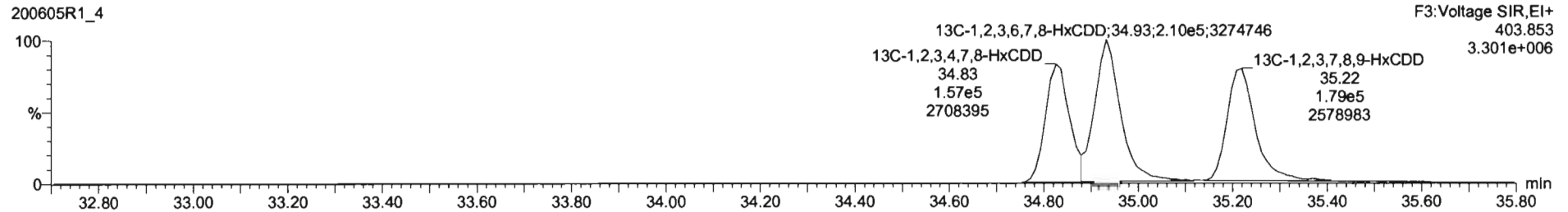
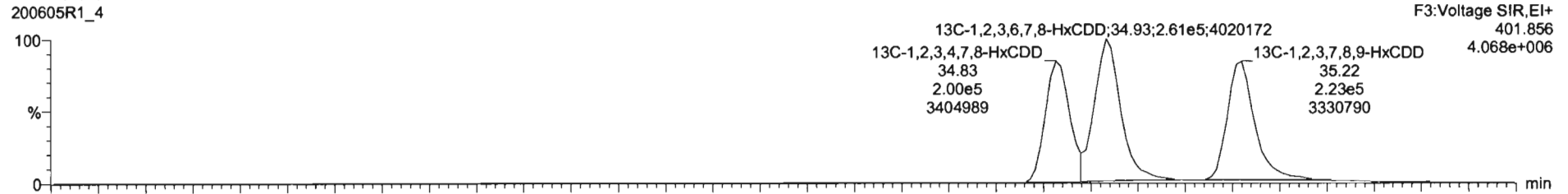
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1,2,3,4,7,8-HxCDD

LIN 07/08/2020

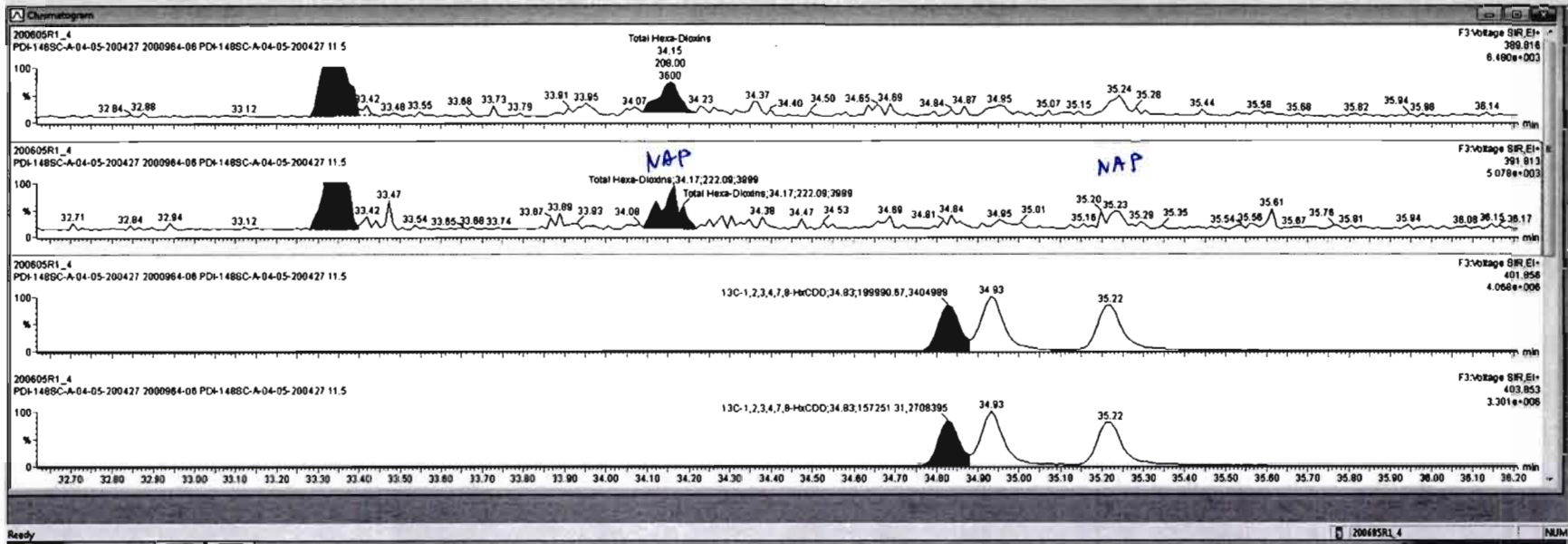


13C-1,2,3,4,7,8-HxCDD



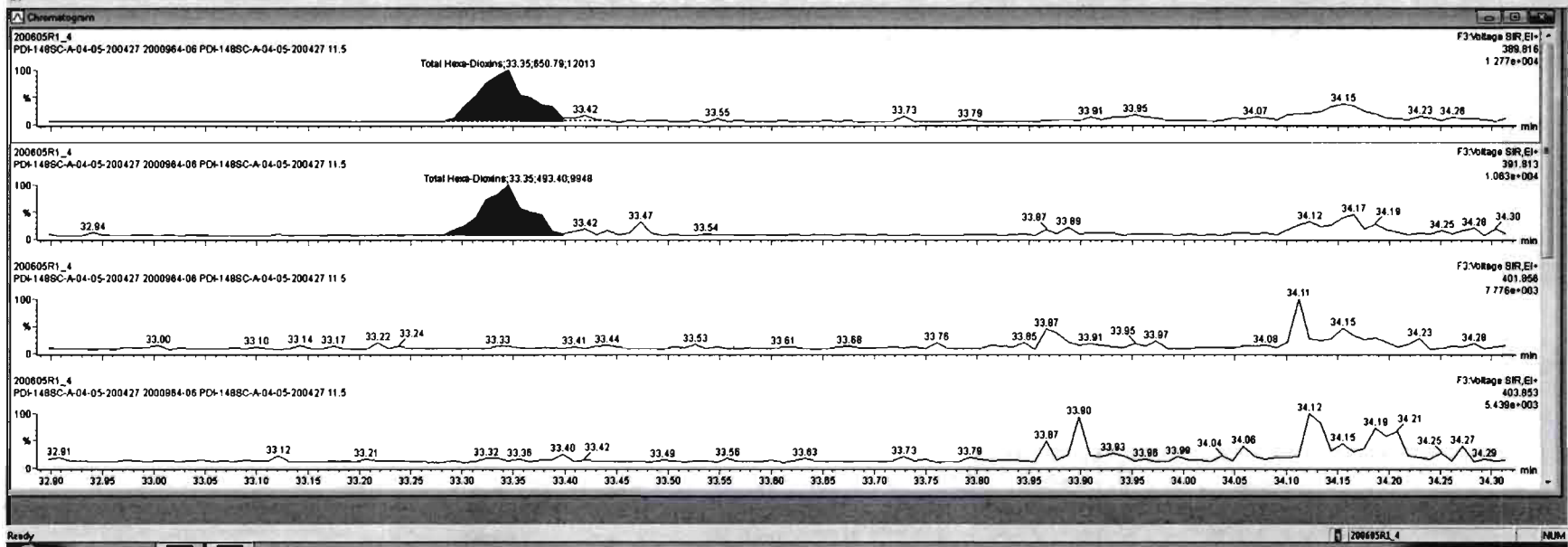
SI	Name	Flag	RA	n/y	RFV	wtVal	Prod.RT	RT	RRT	Conc	WRec	CL	EMPC
39	Total Tetra-Dioxins				0.8803	10.051	24.52			0.202		0.0920	0.202
40	Total Penta-Dioxins				0.9091	10.051	29.98			0.000		0.0391	0.0715
41	Total Hexa-Dioxins				0.8923	10.051	33.82			0.822		0.103	0.826
42	Total Hepta-Dioxins				0.8639	10.051	37.84			1.82		0.108	1.82
43	Total Tetra-Furans				0.7510	10.051	23.81					0.0181	
44	1st Func. Penta-Furans				0.8925	10.051	27.58					0.0982	
45	Total Penta-Furans				0.8925	10.051	29.27					0.0205	

SI	Name	RT	int Resp	w2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxine	33.25	8.500e2	4.934e2	1.32	NO	0.82198	0.82198
2	Total Hexa-Dioxine	34.15	2.080e2	2.221e2	0.94	YES	0.20425	0.00000



Name	Resp	RA	n/y	RW	wt/wst	Pred.RT	RT	RRT	Conc.	%Rec	DL	BtPC
38 Total Tetra-Dioxins				0.9883	10.051	24.82			0.202		0.0620	0.202
40 Total Penta-Dioxins				0.9081	10.051	29.98			0.000		0.0391	0.0715
41 Total Hexa-Dioxins				0.9923	10.051	29.93			0.822		0.3109	0.822
42 Total Hepta-Dioxins				0.9839	10.051	37.84			1.82		0.108	1.82
43 Total Tetra-Furans				0.7510	10.051	23.81					0.0181	
44 1st Func. Penta-Furans				0.8825	10.051	27.29					0.00852	
45 Total Penta-Furans				0.9825	10.051	29.27					0.0205	

Name	RT	n/y	Resp	m2 Resp	RA	n/y	BtPC	Conc.
1 Total Hexa-Dioxins	33.35		6.508e2	4.934e2	1.32	ND	0.62199	0.62199



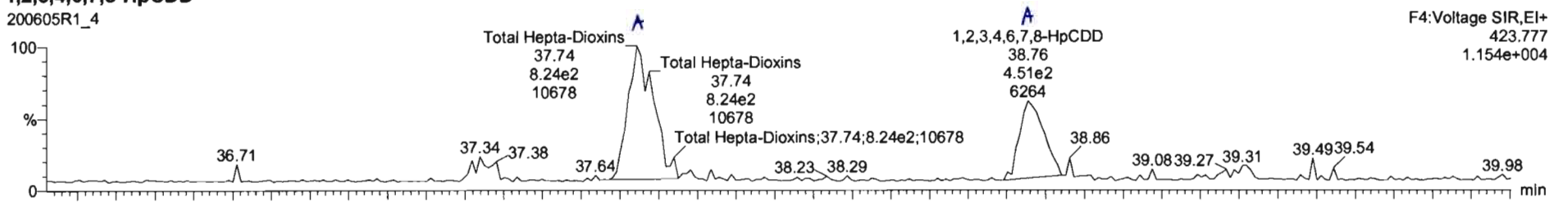
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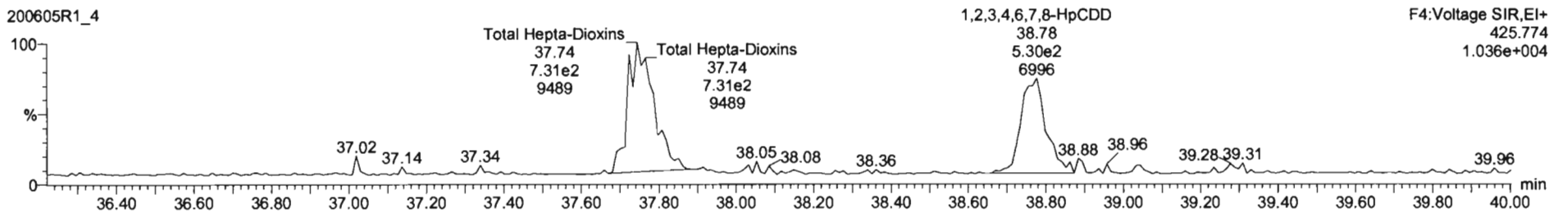
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1,2,3,4,6,7,8-HpCDD

200605R1\_4

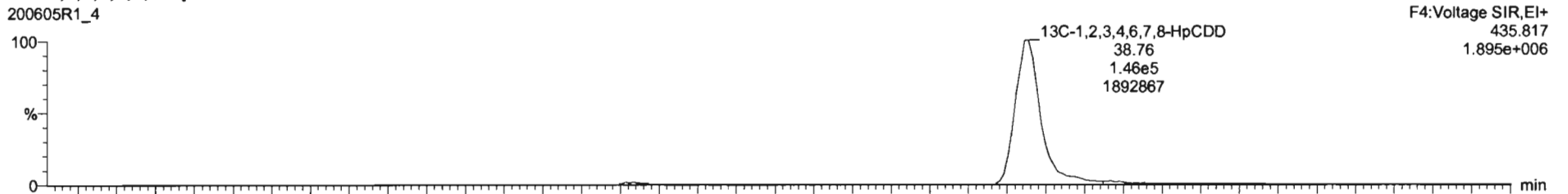


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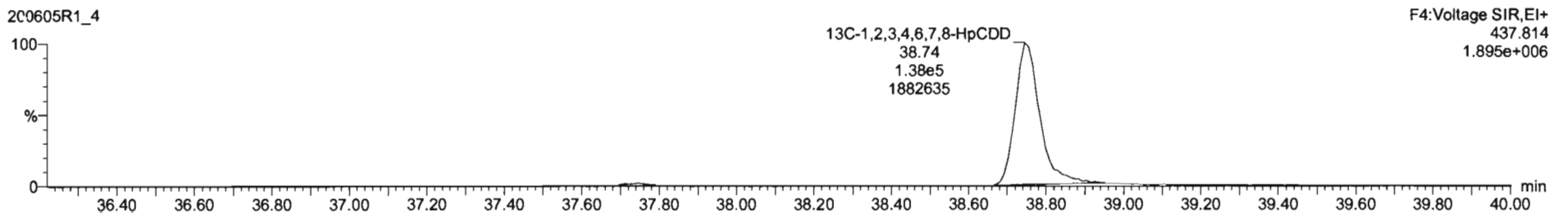


13C-1,2,3,4,6,7,8-HpCDD

200605R1\_4



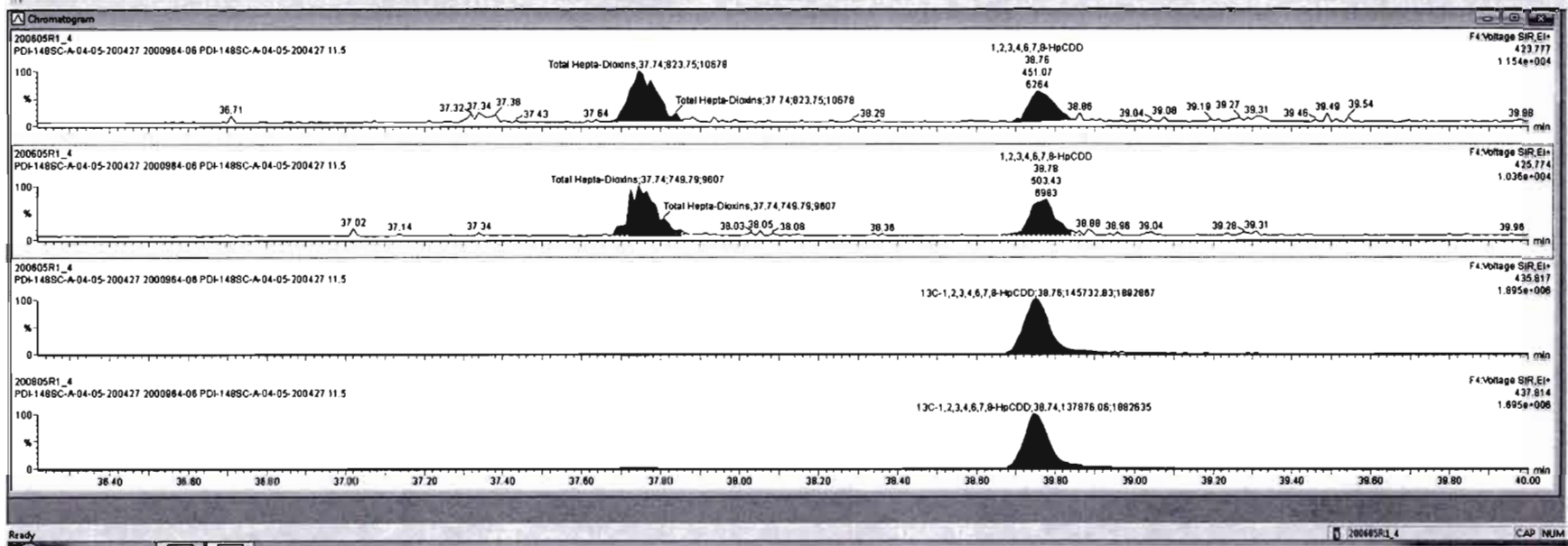
200605R1\_4





Name	Resp	RA	rvf	RRF	wtAvail	RT	RRF	Conc	%Rec	DL	BMP
38 Total Tetra-Dioxins				0.0003	10.051			0.204	0.0020	0.204	
40 Total Penta-Dioxins				0.8081	10.051				0.0391		
41 Total Hexa-Dioxins				0.8923	10.051			0.622	0.103	0.622	
42 Total Hepta-Dioxins				0.8628	10.051			2.08	0.228	2.08	
43 Total Tetra-Furans				0.7510	10.051				0.0161		
44 1st Func. Penta-Furans				0.8825	10.051				0.00852		
45 Total Penta-Furans				0.8825	10.051				0.0205		
46 Total Hexa-Furans				0.9341	10.051				0.0212		
47 Total Hepta-Furans				0.8734	10.051				0.0259		

Name	RT	int Resp	wt Resp	RA	rvf	BMP	Conc
1 Total Hepta-Dioxins	37.74	8.237e2	7.489e2	1.10	NO	1.2798	1.2798
2 1,2,3,4,6,7,8-HpCDD	38.76	4.511e2	5.034e2	0.90	NO	0.77521	0.77521





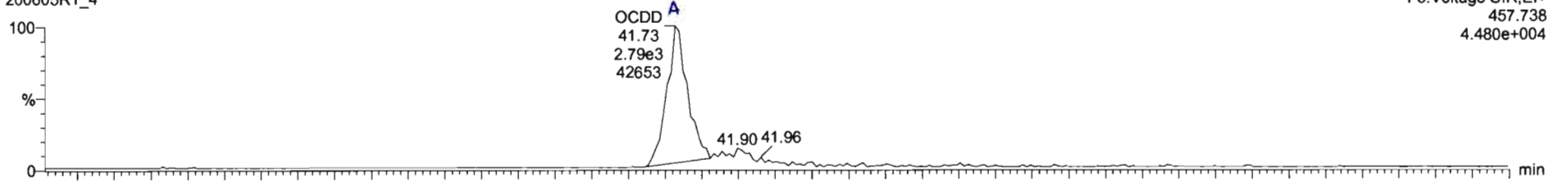
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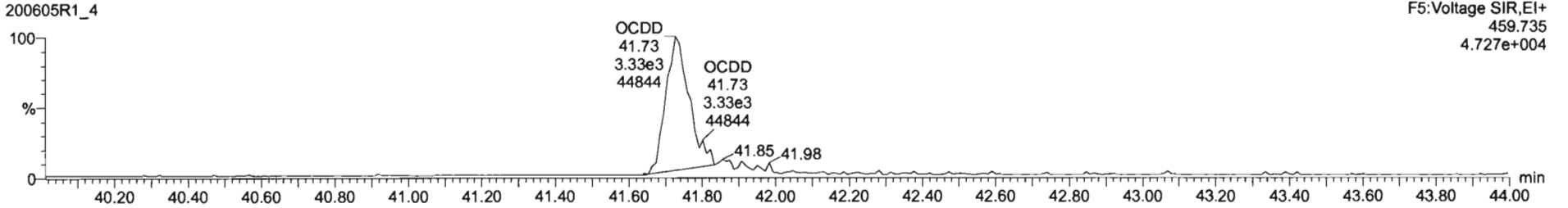
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**OCDD**

200605R1\_4

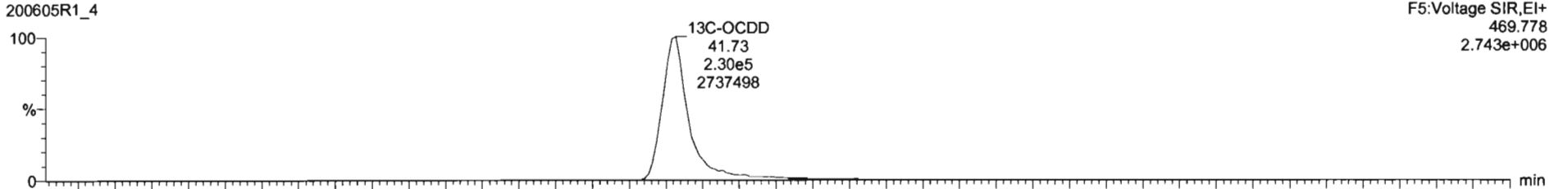


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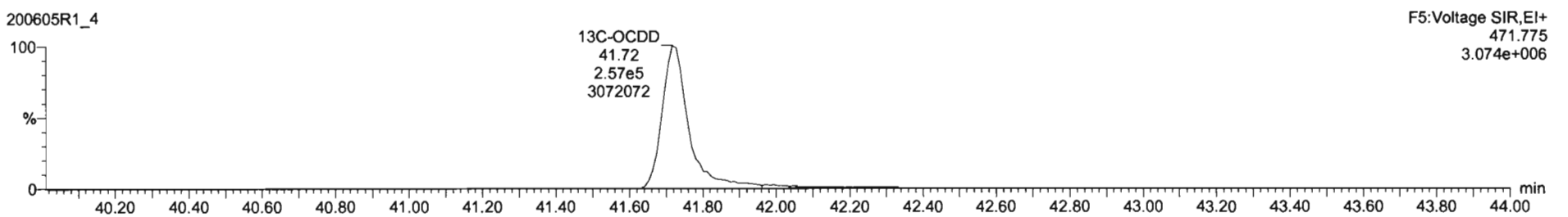


**13C-OCDD**

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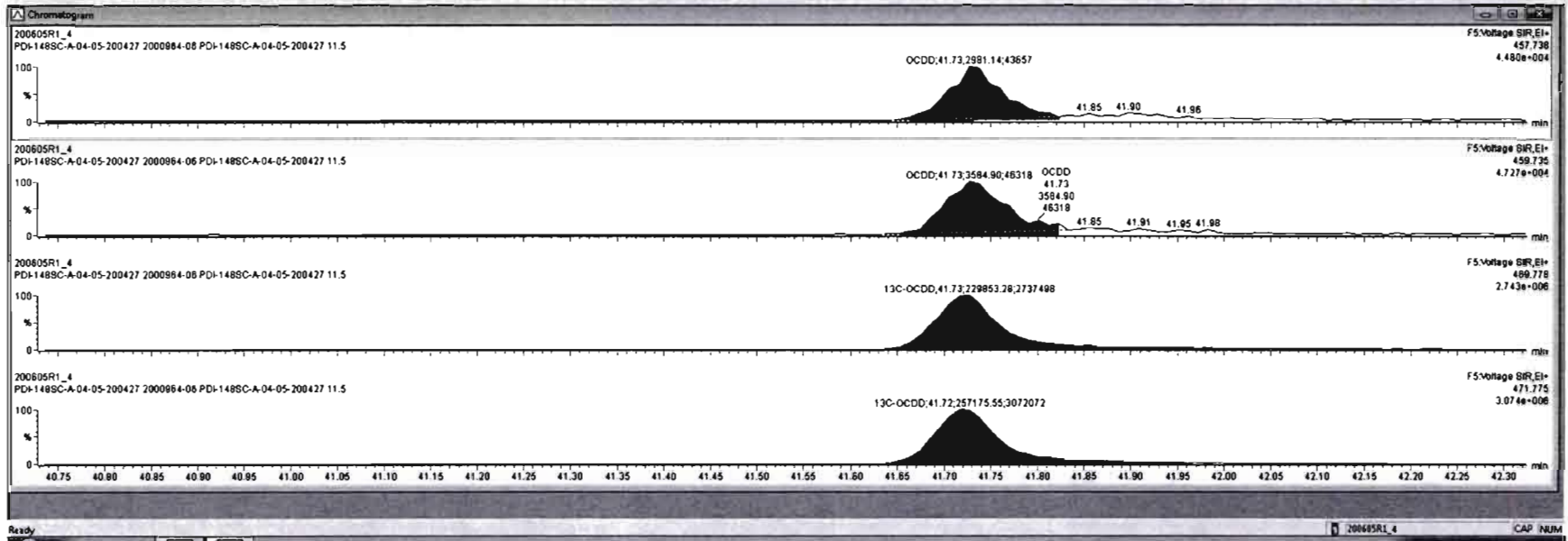


200605R1\_4



#	Name	Resp	RA	iv	RF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
7	OCDD	0.57e3	0.83	NO	0.9136	10.051	41.73	1.000	5.87		0.265	5.87
8	2,3,7,8-TCDF			NO	0.7510	10.051					0.0429	
9	1,2,3,7,8-HxCDF			NO	0.8925	10.051					0.0380	
10	2,3,4,7,8-HxCDF			NO	0.8348	10.051					0.0346	
11	1,2,3,4,7,8-HxCDF			NO	0.8845	10.051					0.0403	
12	1,2,3,6,7,8-HxCDF			NO	0.8662	10.051					0.0362	
13	2,3,4,6,7,8-HxCDF			NO	0.8341	10.051					0.0394	
14	1,2,3,7,8-HxCDF			NO	0.8707	10.051					0.0617	
15	1,2,3,4,6,7,8-HxCDF			NO	0.8734	10.051					0.0506	

#	Name	RT	m1 Resp	m2 Resp	RA	iv	EMPC	Conc
1								



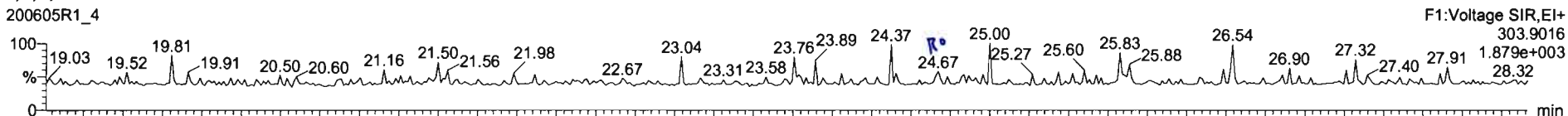
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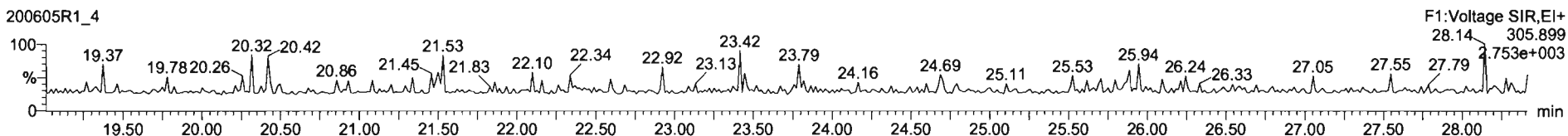
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**2,3,7,8-TCDF**

200605R1\_4

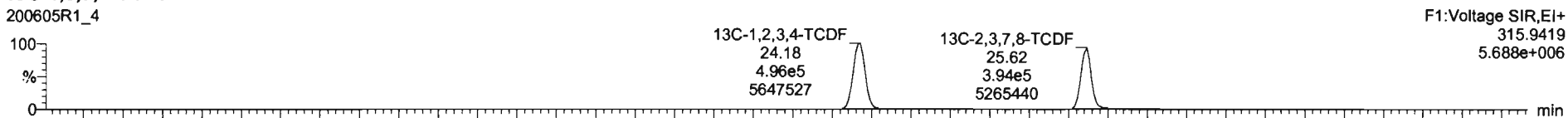


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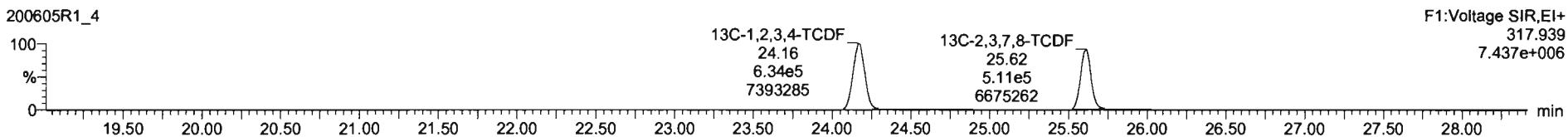


**13C-2,3,7,8-TCDF**

200605R1\_4

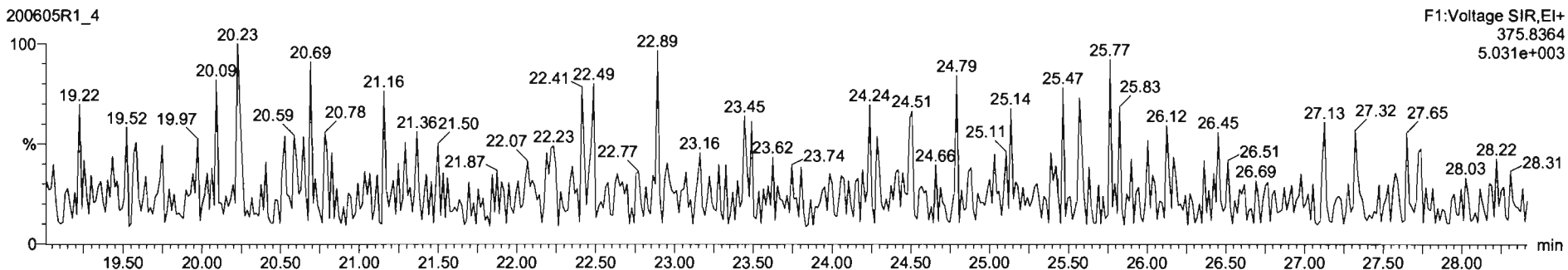


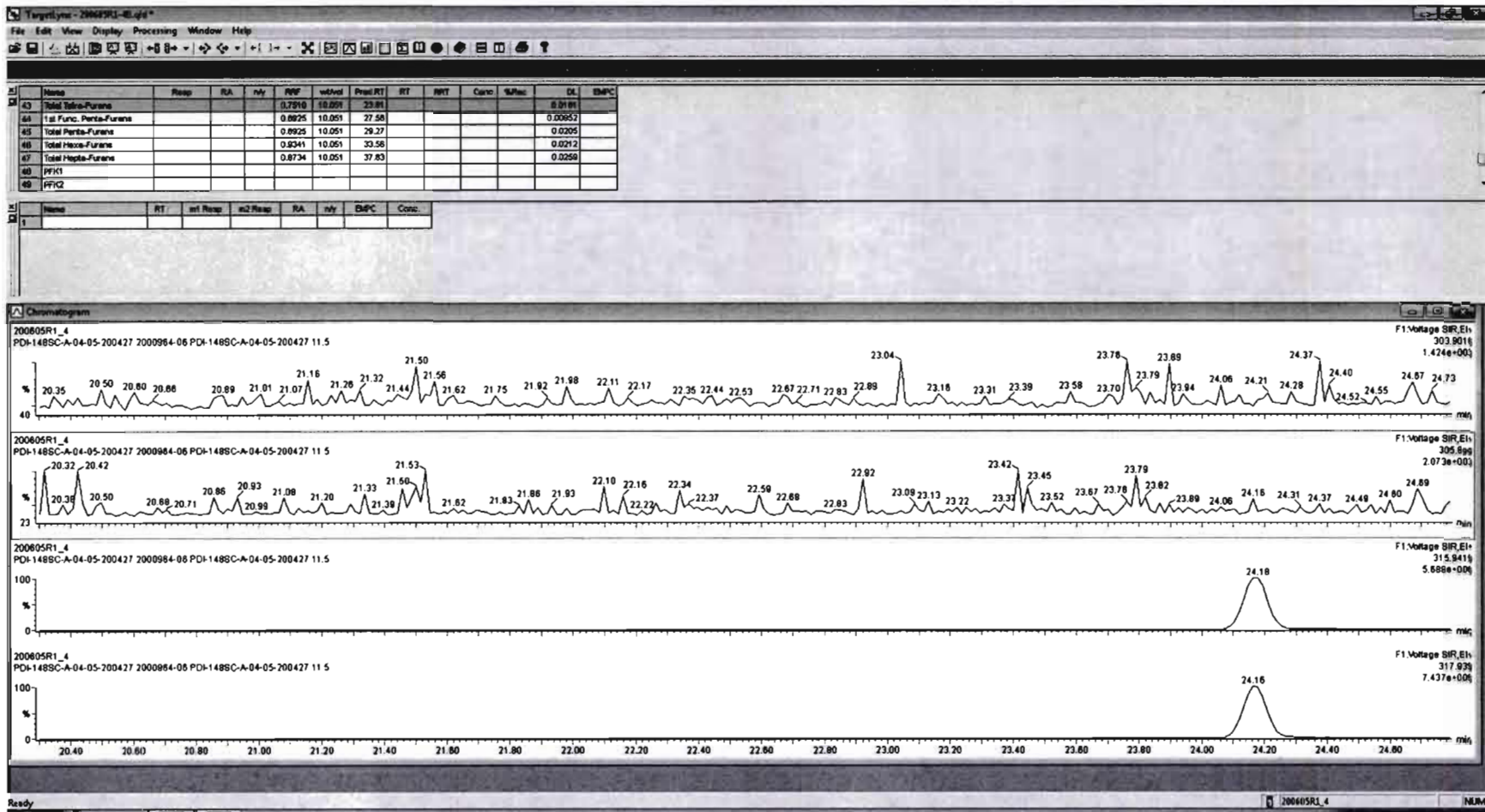
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**DPE1**

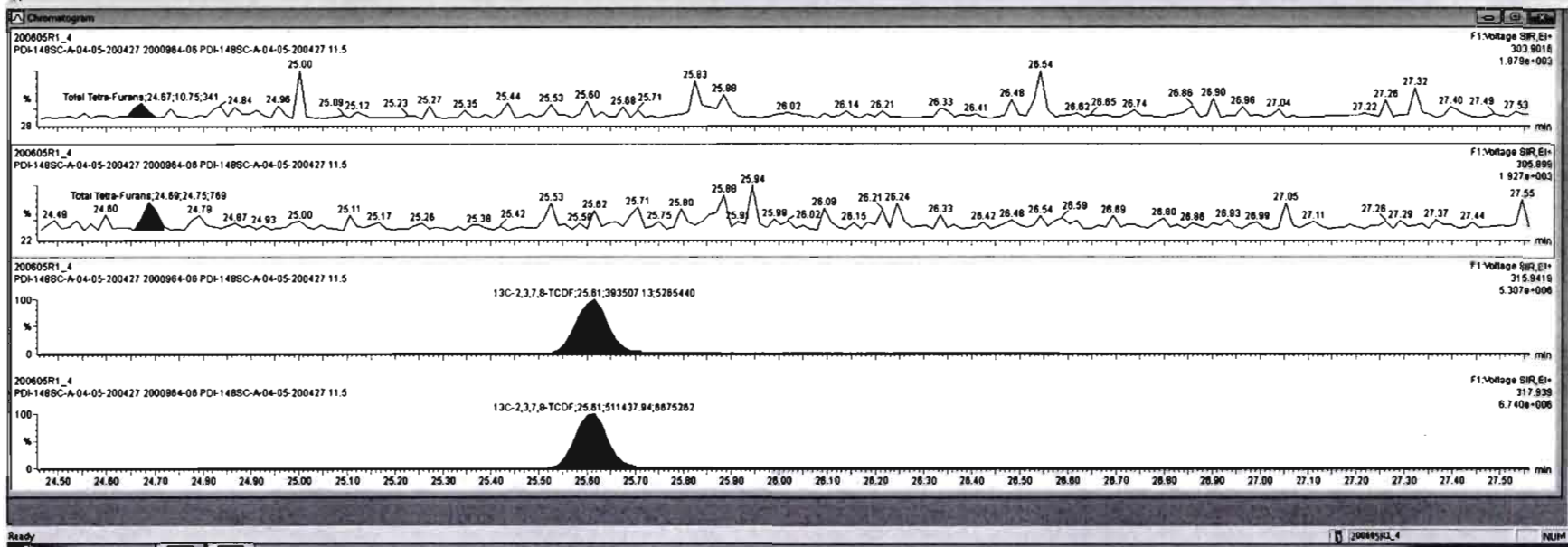
200605R1\_4





Mass	Resp	RA	nly	FW	wtAve	Prod.RT	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans			0.7518	10.051	23.81			0.000		0.0181	0.00723
64	1st Func. Penta-Furans			0.8625	10.051	27.58					0.00652	
45	Total Penta-Furans			0.8925	10.051	29.27					0.0205	
46	Total Hexa-Furans			0.9341	10.051	33.58					0.0212	
47	Total Hepta-Furans			0.8734	10.051	37.83					0.0258	
48	PFK1											
49	PFK2											

Mass	RT	wt Resp	nd Resp	RA	nly	EMPC	Conc.
1	Total Tetra-Furans	24.67	1.075e1	2.475e1	0.43	YES	0.00723... 0.00000



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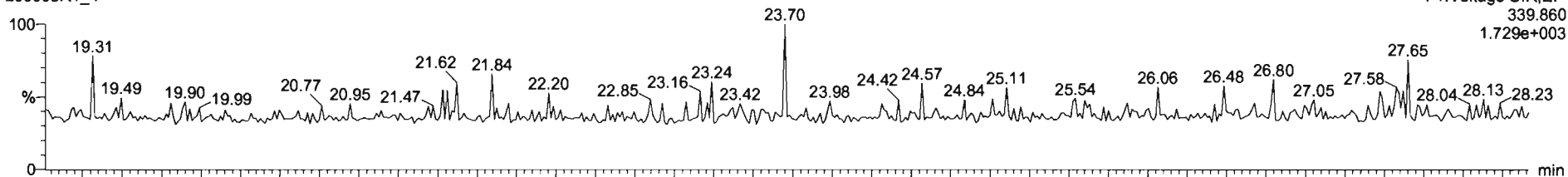
Last Altered: Sunday, June 07, 2020 08:21:27 Pacific Daylight Time

Printed: Sunday, June 07, 2020 08:21:35 Pacific Daylight Time

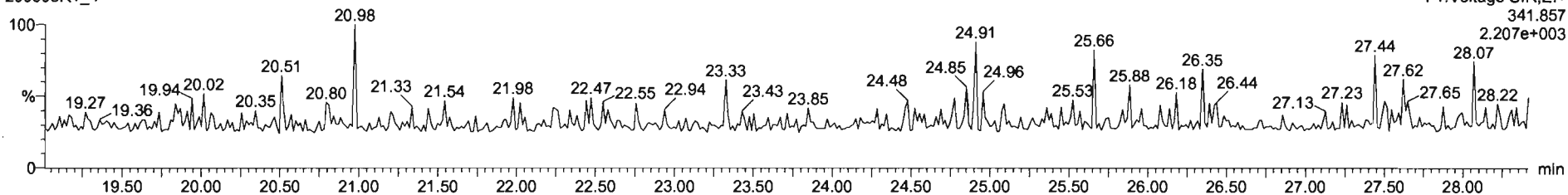
Name: 200605R1\_4, Date: 05-Jun-2020, Time: 12:12:59, ID: 2000964-06 PDI-148SC-A-04-05-200427 11.5, Description: PDI-148SC-A-04-05-200427

1st Func. Penta-Furans

200605R1\_4

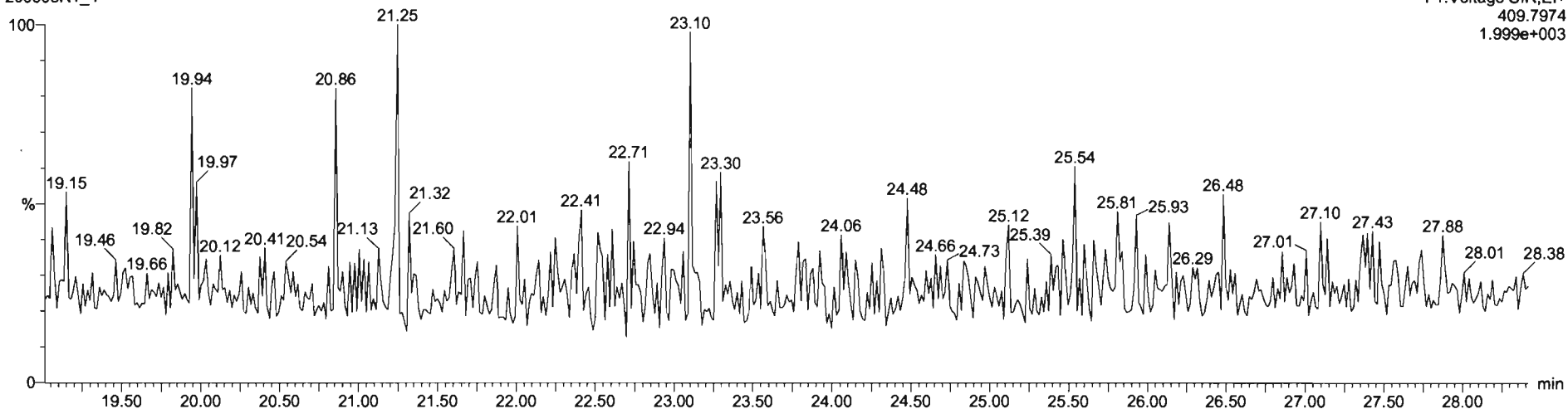


200605R1\_4



DPE6

200605R1\_4



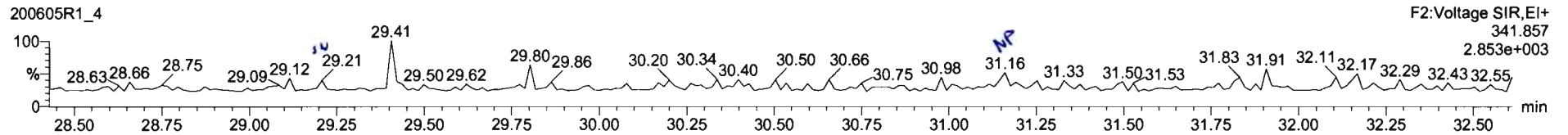
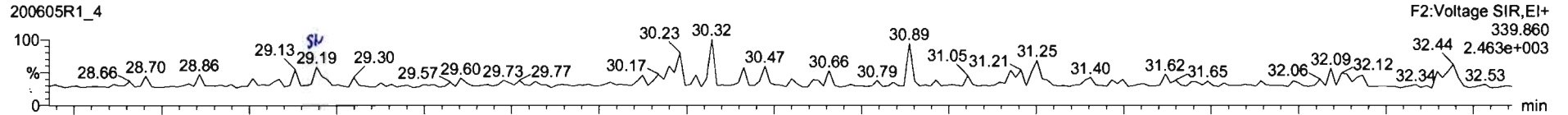


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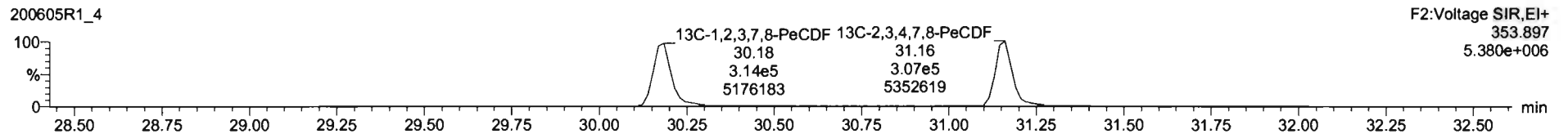
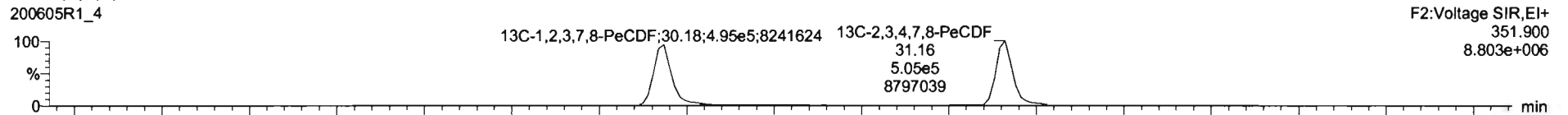
Last Altered: Sunday, June 07, 2020 08:21:27 Pacific Daylight Time  
Printed: Sunday, June 07, 2020 08:21:35 Pacific Daylight Time

Name: 200605R1\_4, Date: 05-Jun-2020, Time: 12:12:59, ID: 2000964-06 PDI-148SC-A-04-05-200427 11.5, Description: PDI-148SC-A-04-05-200427

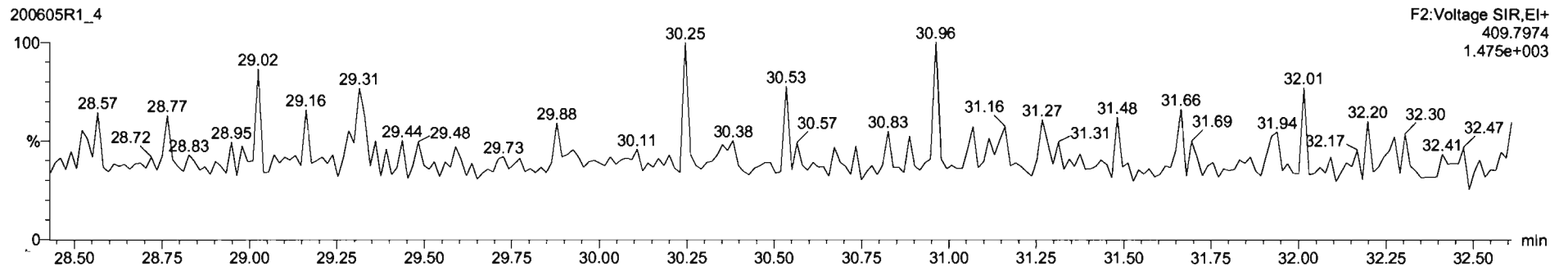
**1,2,3,7,8-PeCDF**



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



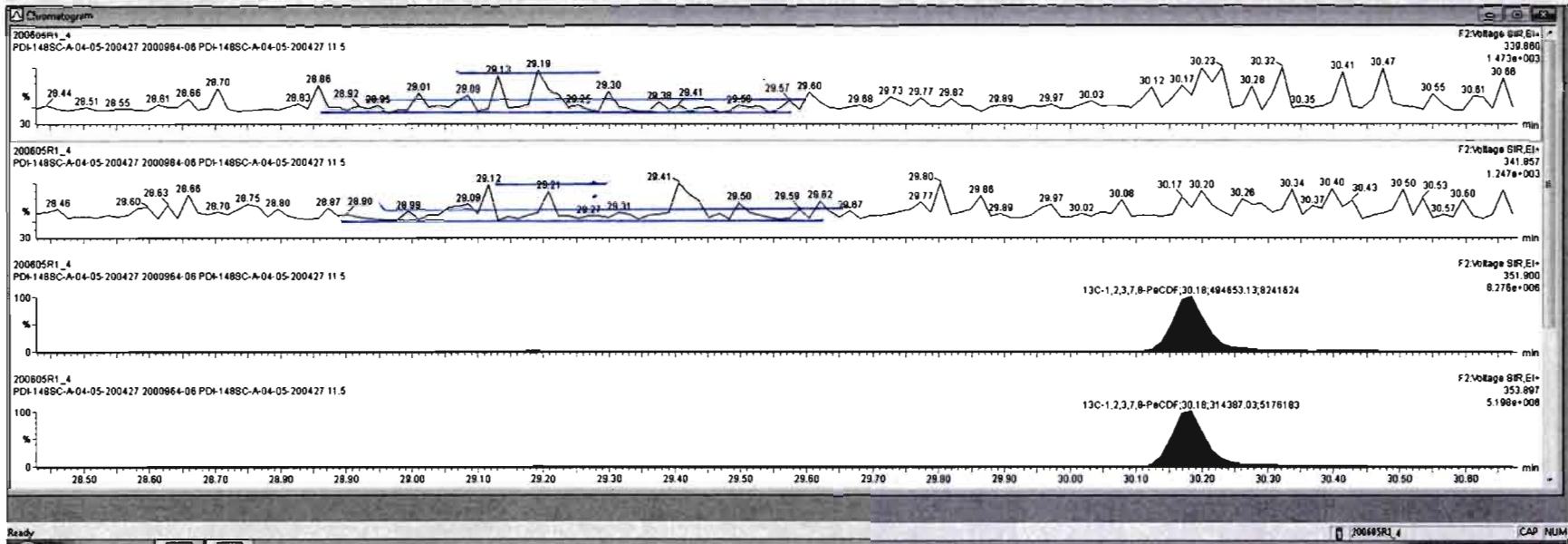
**DPE2**



Targetlynr - 2006SR1-4L.sld  
 File Edit View Display Processing Window Help

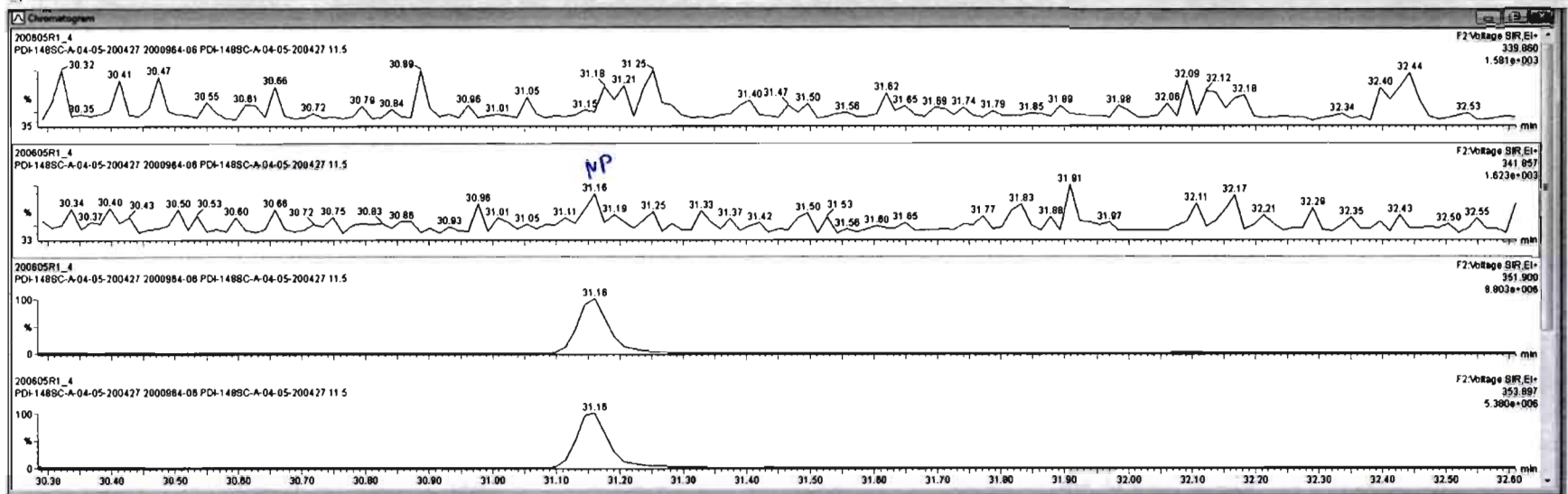
#	Name	Resp	RA	rly	RRF	wAnd	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7510	10.051					0.0161	
44	1st Func. Penta-Furans				0.8925	10.051					0.00952	
45	Total Penta-Furans				0.9425	10.051					0.0256	
46	Total Hexa-Furans				0.8041	10.051					0.0212	
47	Total Hepta-Furans				0.8734	10.051					0.0259	
48	PFH1											
49	PFH2											
50	PFH3											
51	PFH4											

#	Name	RT	m1 Resp	m2 Resp	RA	rly	EMPC	Conc.
1								



#	Name	Resp	RA	rvf	RFW	wdVol	Pred.RT	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7510	10.051	23.61			0.000		0.0161	0.00723
44	1st Func. Penta-Furans				0.8625	10.051	27.50					0.00652	
45	Total Penta-Furans				0.8091	10.051	26.27					0.00601	
46	Total Hexa-Furans				0.8341	10.051	33.50					0.0212	
47	Total Hepta-Furans				0.8734	10.051	37.83					0.0259	
48	PPV1												
49	PPV2												

#	Name	RT	ml Resp	ml2 Resp	RA	rvf	EMPC	Conc.
1								

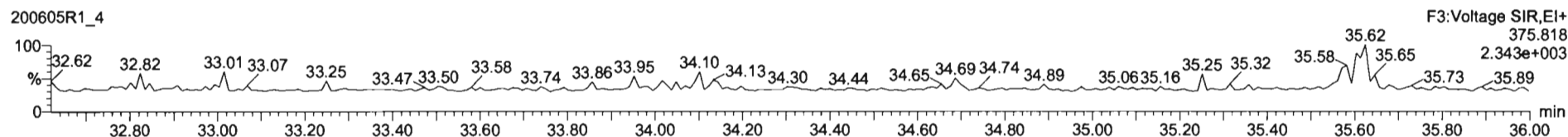
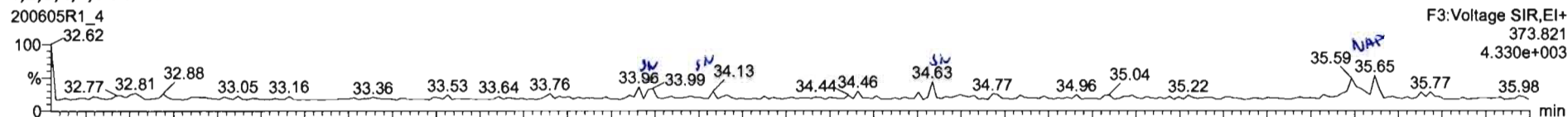


Dataset: Untitled

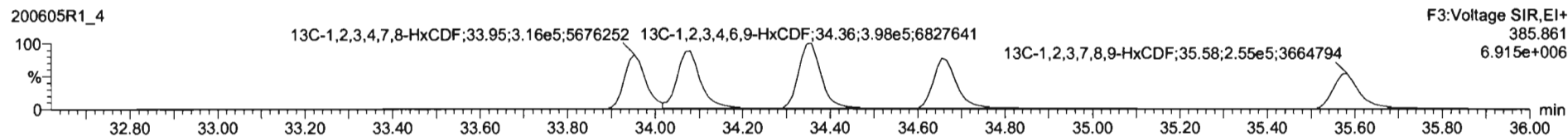
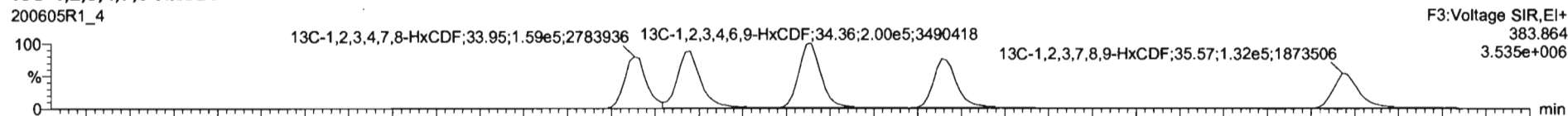
Last Altered: Sunday, June 07, 2020 08:21:27 Pacific Daylight Time  
Printed: Sunday, June 07, 2020 08:21:35 Pacific Daylight Time

Name: 200605R1\_4, Date: 05-Jun-2020, Time: 12:12:59, ID: 2000964-06 PDI-148SC-A-04-05-200427 11.5, Description: PDI-148SC-A-04-05-200427

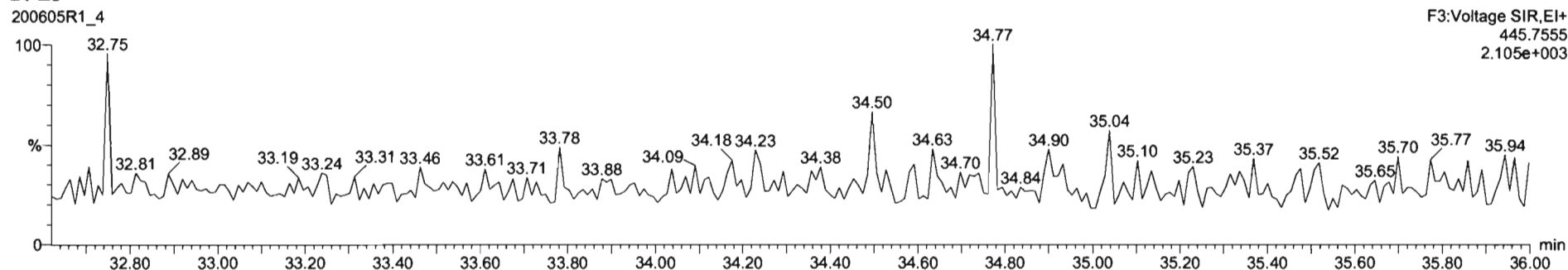
**1,2,3,4,7,8-HxCDF**

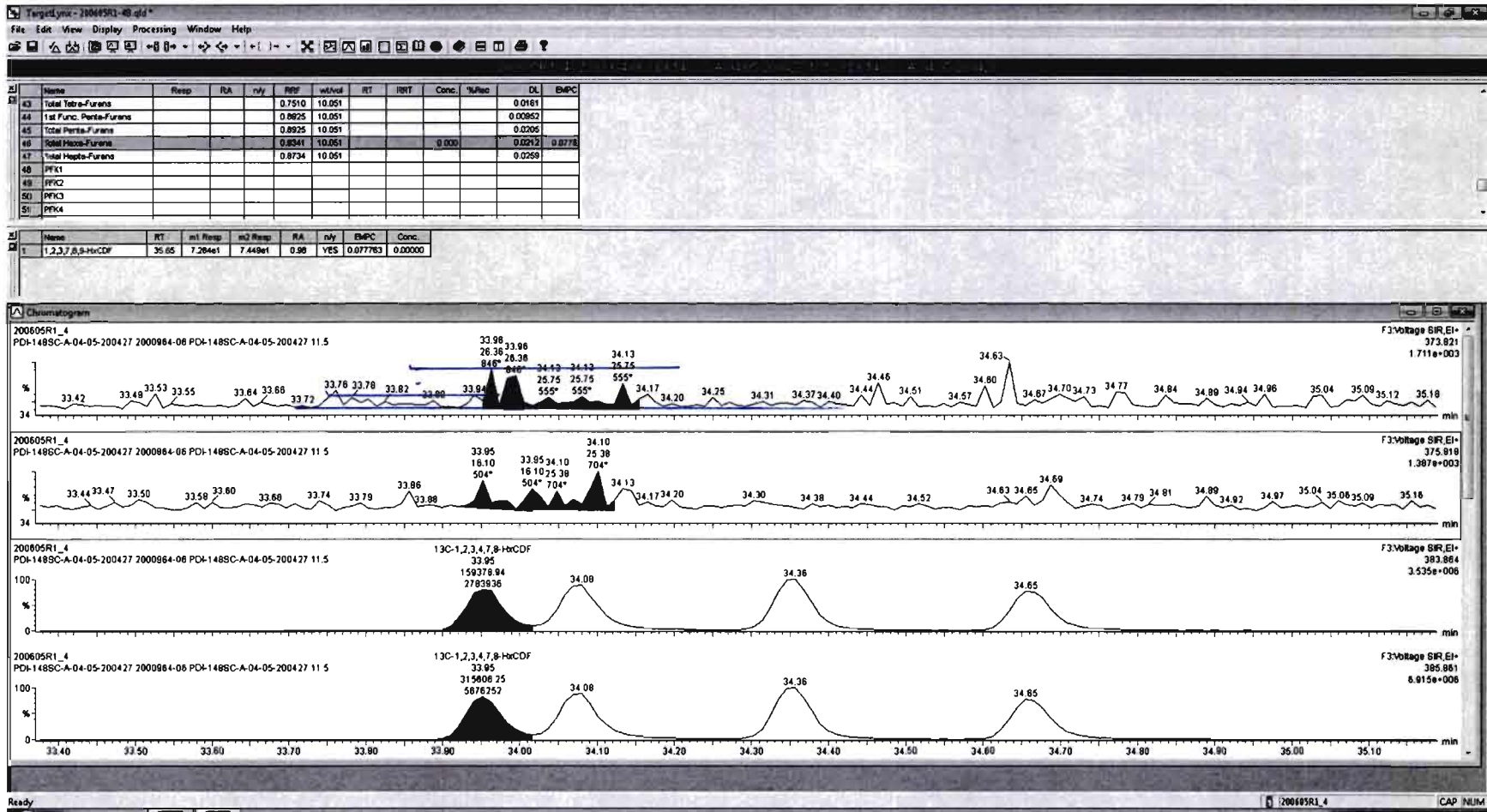


**13C-1,2,3,4,7,8-HxCDF**



**DPE3**





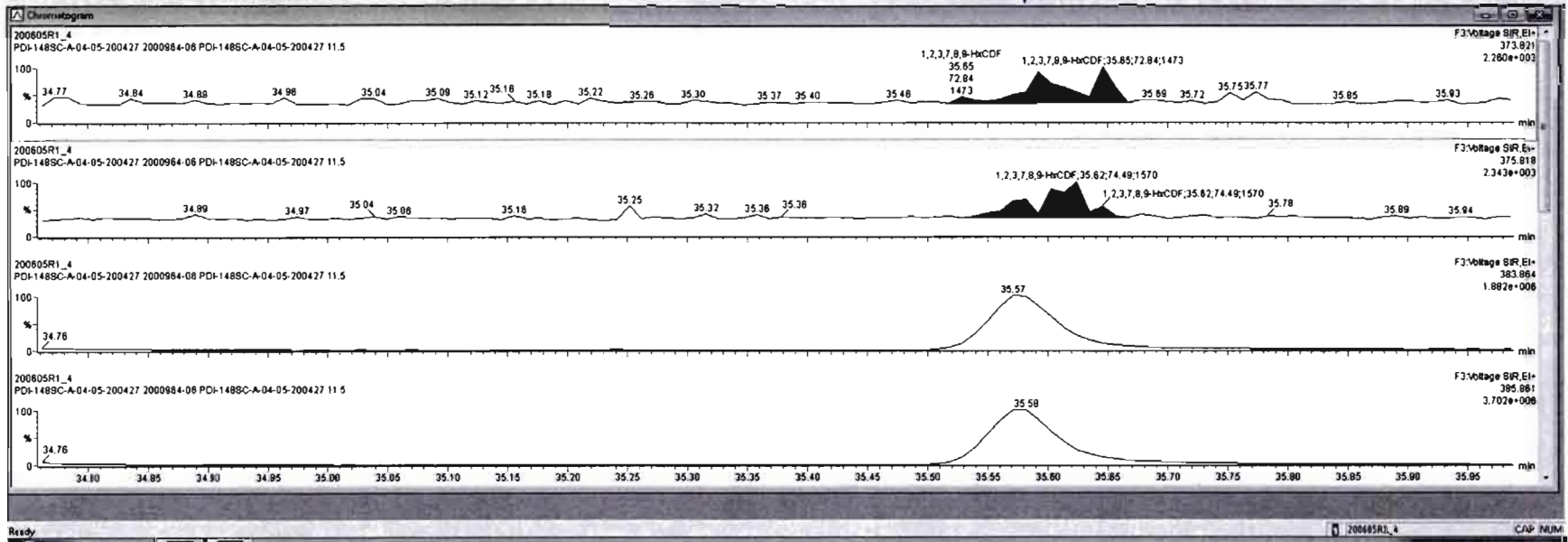


TargetSymr - 200405R1-4E.sjd  
 File Edit View Display Processing Window Help

#	Name	Reso	RA	n/y	FWF	wtAval	RT	PRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7510	10.051					0.0161	
44	1st Func. Penta-Furans				0.8925	10.051					0.00652	
45	Total Penta-Furans				0.8925	10.051					0.0205	
46	Total Hexa-Furans				0.8541	10.051			0.030		0.0212	0.0778
47	Total Hepta-Furans				0.8734	10.051					0.0259	
48	PFY1											
49	PFY2											
50	PFY3											
51	PFY4											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	1,2,3,7,8,9-HxCDF	35.85	7.264e1	7.440e1	0.98	YES	0.077763	0.00000

NAP





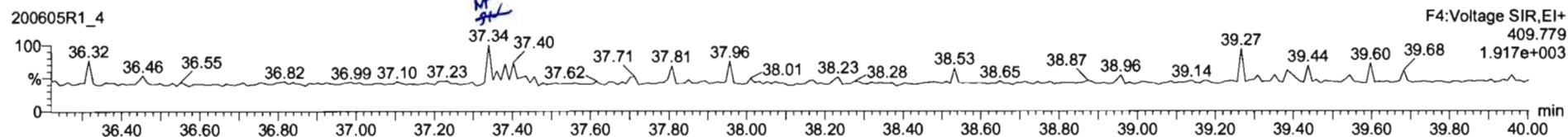
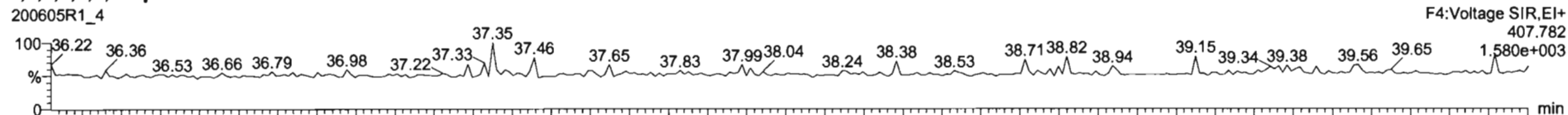
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Last Altered: Sunday, June 07, 2020 08:21:27 Pacific Daylight Time  
Printed: Sunday, June 07, 2020 08:21:35 Pacific Daylight Time

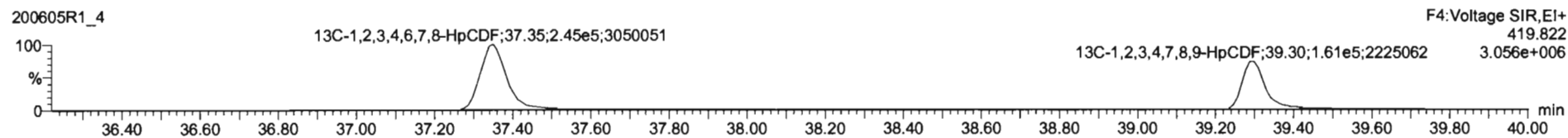
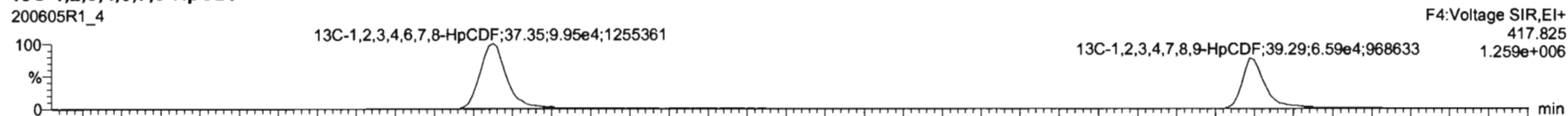
Name: 200605R1\_4, Date: 05-Jun-2020, Time: 12:12:59, ID: 2000964-06 PDI-148SC-A-04-05-200427 11.5, Description: PDI-148SC-A-04-05-200427

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

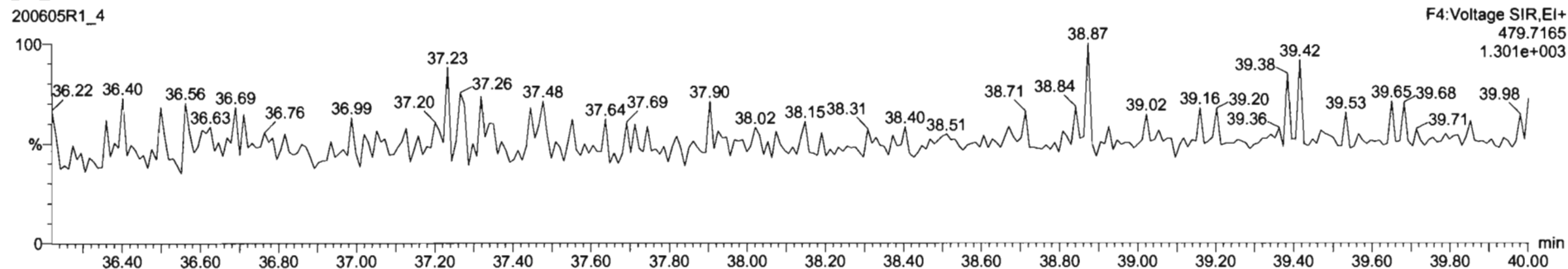
*WIN 07/08/2020*



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

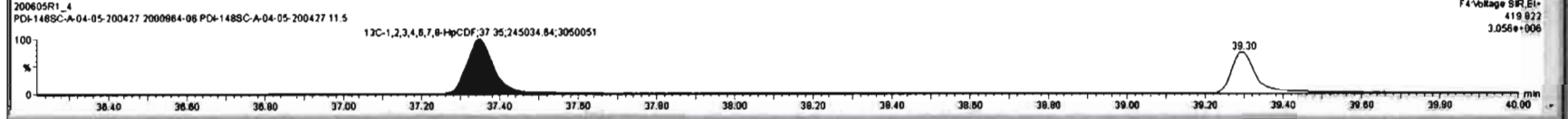
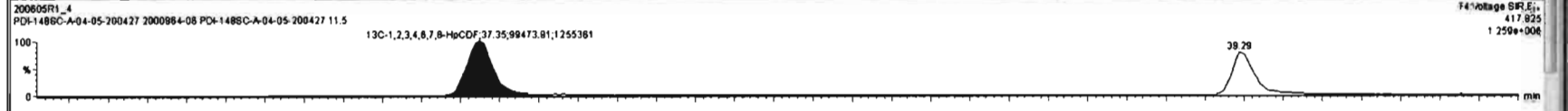
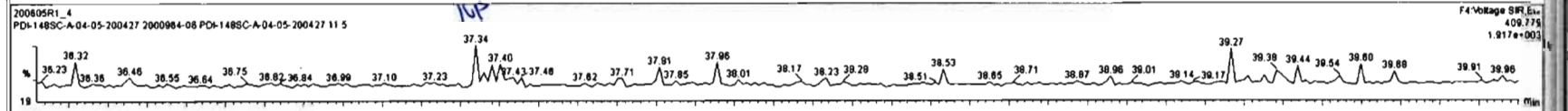
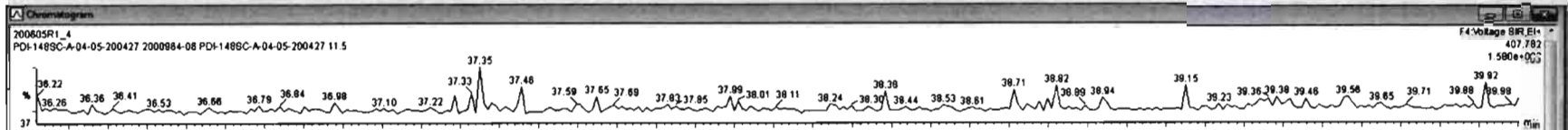


**DPE4**



#	Name	Resp	RA	n/y	FWF	wUnd	Pred RT	RT	RTT	Conc	%Resp	DL	EMPC
43	Total Tetra-Furans				0.7510	10.051	23.81			0.000		0.0181	0.00723
44	1st Func. Penta-Furans				0.8925	10.051	27.58					0.00852	
45	Total Penta-Furans				0.8925	10.051	29.27					0.0205	
46	Total Hexa-Furans				0.9341	10.051	33.56					0.0212	
47	Total Hepta-Furans				0.8738	10.051	37.83					0.0358	
48	PPY1												
49	PPY2												

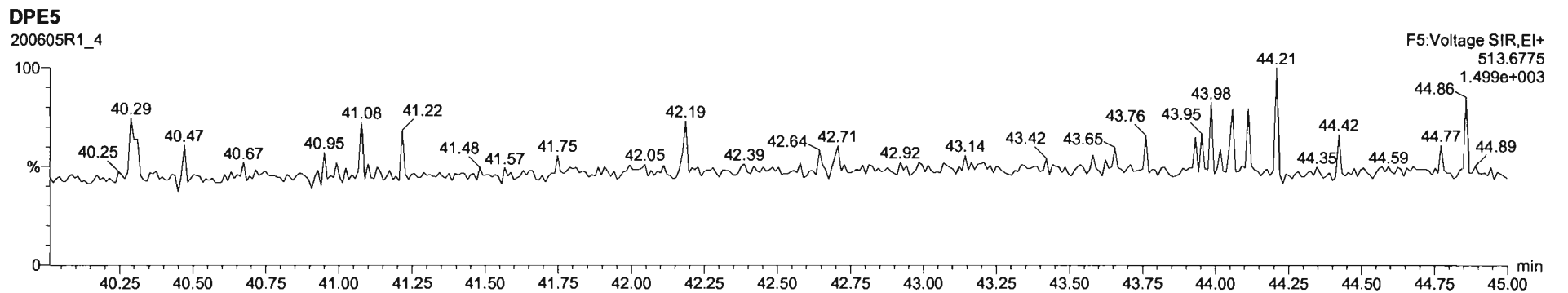
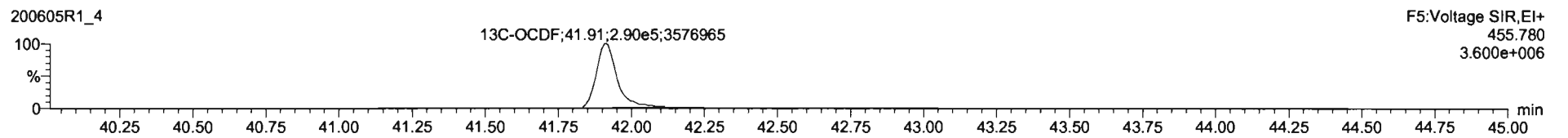
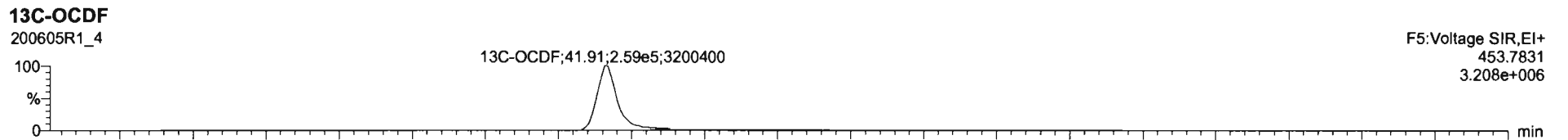
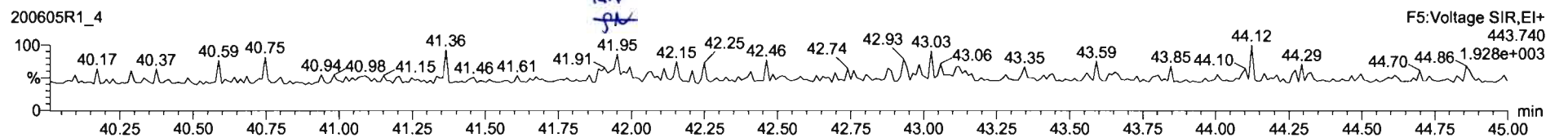
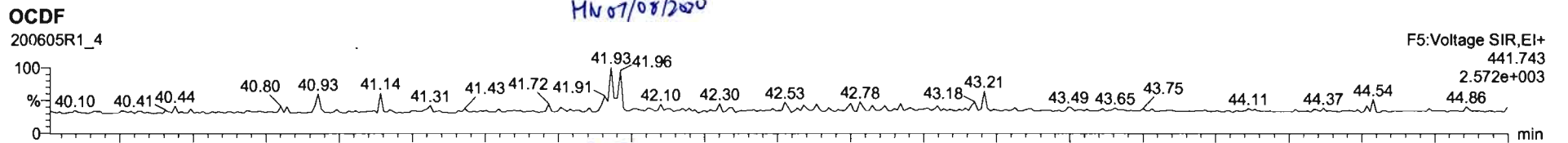
#	Name	RT	int Resp	w2 Resp	RA	n/y	EMPC	Conc.
1								



Dataset: Untitled

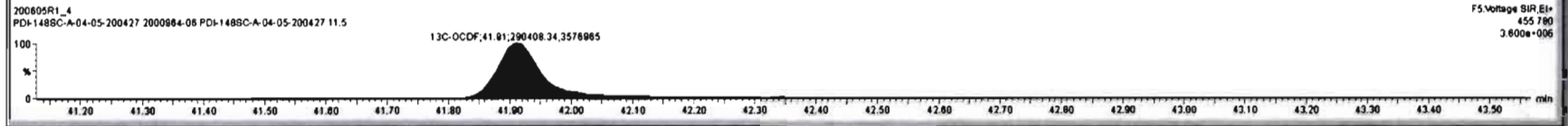
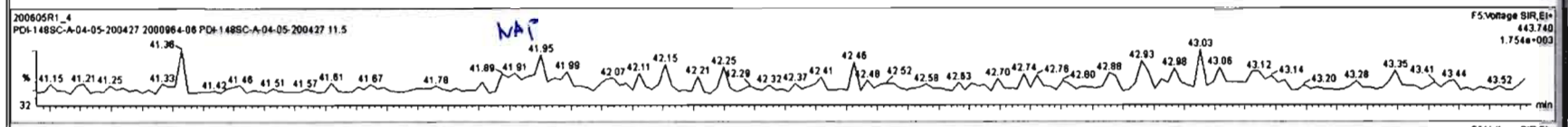
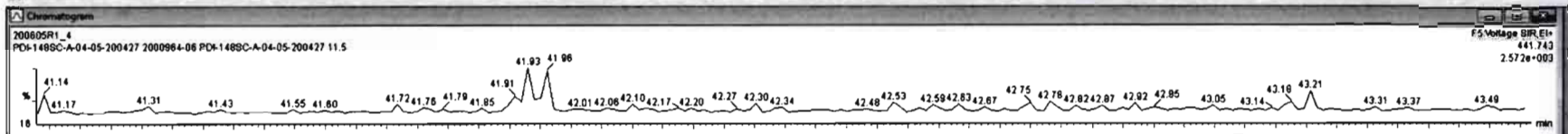
Last Altered: Sunday, June 07, 2020 08:21:27 Pacific Daylight Time  
Printed: Sunday, June 07, 2020 08:21:35 Pacific Daylight Time

Name: 200605R1\_4, Date: 05-Jun-2020, Time: 12:12:59, ID: 2000964-06 PDI-148SC-A-04-05-200427 11.5, Description: PDI-148SC-A-04-05-200427



Name	Resp	RA	nV	RF	stdDev	ProdRT	RT	RFT	Conc.	%Rec	DL	EMPC
17	OCD				0.0000	41.81					0.113	
18	13C-2,3,7,8-13CDO	7.48e5	0.78	NO	1.1583	10.051	28.54	28.50	1.025	189	84.9	0.259
19	13C-1,2,3,7,8-HxCDO	5.32e5	0.82	NO	0.8490	10.051	31.73	31.47	1.217	164	82.4	0.308
20	13C-1,2,3,4,7,8-HxCDO	3.57e5	1.27	NO	0.7790	10.051	34.84	34.83	1.014	153	76.7	0.894
21	13C-1,2,3,6,7,8-HxCDO	4.71e5	1.24	NO	1.0167	10.051	34.95	34.83	1.017	154	77.5	0.532
22	13C-1,2,3,7,8,9-HxCDO	4.02e5	1.25	NO	0.9027	10.051	35.23	35.22	1.025	148	74.5	0.588
23	13C-1,2,3,4,6,7,8-HpCDO	2.82e5	1.08	NO	0.8892	10.051	38.75	38.78	1.128	137	86.8	0.472

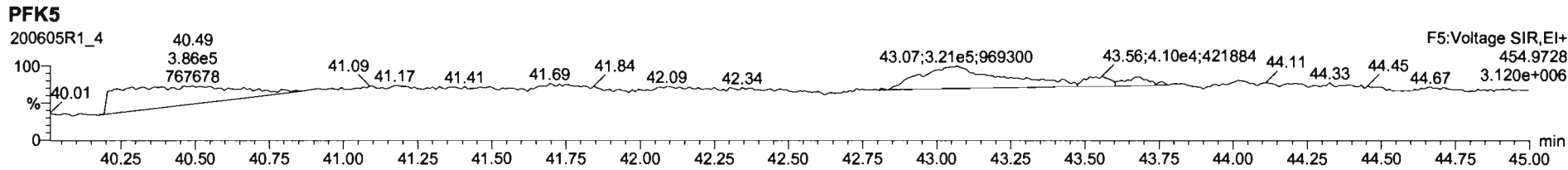
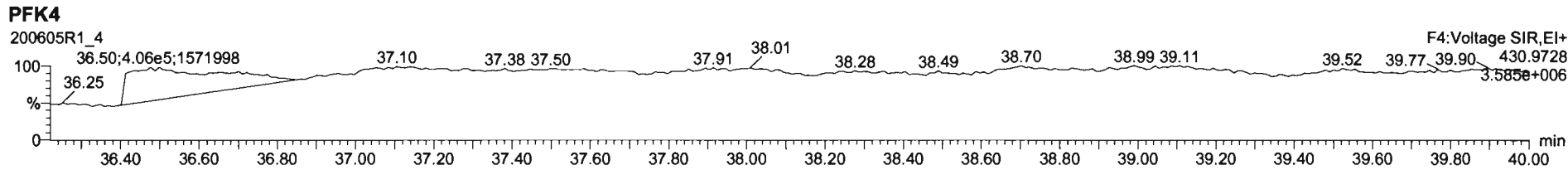
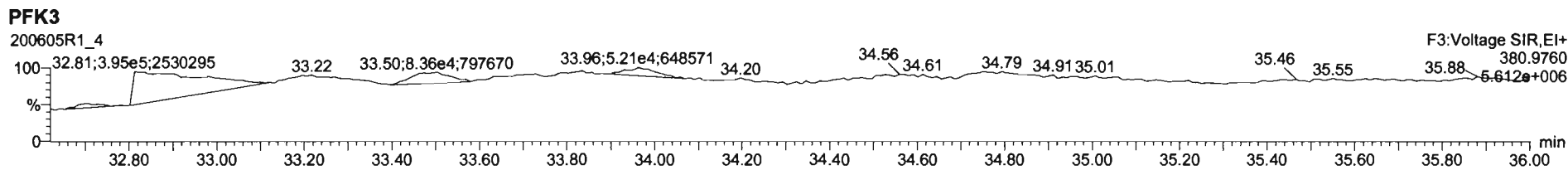
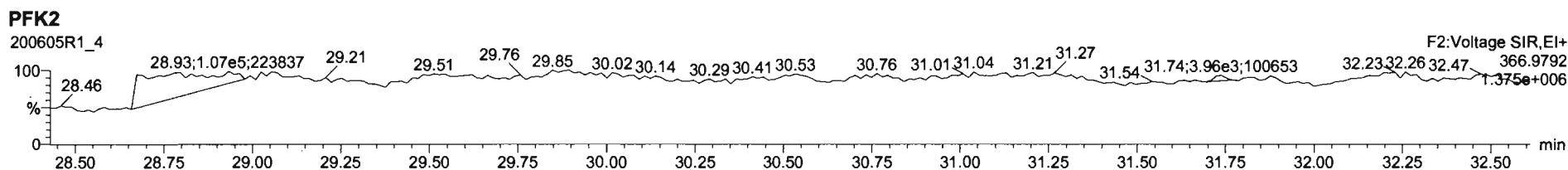
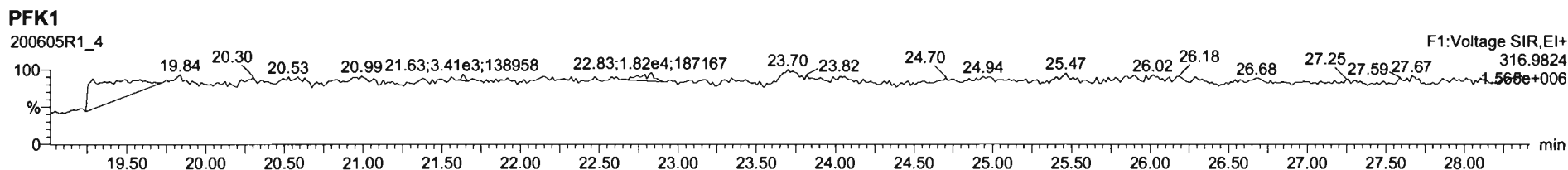
Name	RT	Int Resp	Int2 Resp	RA	nV	EMPC	Conc.
1							



Dataset: Untitled

Last Altered: Sunday, June 07, 2020 08:21:27 Pacific Daylight Time  
Printed: Sunday, June 07, 2020 08:21:35 Pacific Daylight Time

Name: 200605R1\_4, Date: 05-Jun-2020, Time: 12:12:59, ID: 2000964-06 PDI-148SC-A-04-05-200427 11.5, Description: PDI-148SC-A-04-05-200427



Dataset: U:\VG12.PRO\Results\200604R1\200604R1-11C.qld

Last Altered: Wednesday, July 08, 2020 11:56:48 AM Pacific Daylight Time  
Printed: Wednesday, July 08, 2020 12:02:50 PM Pacific Daylight Time

*MW 07/08/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

*Cr07/16/2020*

Name: 200604R1\_11, Date: 04-Jun-2020, Time: 15:59:40, ID: 2000964-07 PDI-148SC-A-05-06-200427 11.82, Description: PDI-148SC-A-05-06-200427

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD												0.0561	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.039	31.473		1.001				0.112	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.039	34.836		1.000				0.0918	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.039	34.932		1.000				0.0996	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.039	35.231		1.000				0.118	
6	6 1,2,3,4,6,7,8-HpCDD	1.35e3	1.10	NO	0.864	10.039	38.757	38.77	1.000	1.001	1.0806		0.117	1.08
7	7 OCDD	8.89e3	0.87	NO	0.914	10.039	41.716	41.75	1.000	1.001	8.2306		0.197	8.23
8	8 2,3,7,8-TCDF			NO	0.751	10.039	25.627		1.001				0.0322	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.039	30.190		1.001				0.0235	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.039	31.177		1.001				0.0219	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.039	33.952		1.000				0.0348	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.039	34.079		1.000				0.0326	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.039	34.690		1.001				0.0354	
14	14 1,2,3,7,8,9-HxCDF	6.23e1	1.06	NO	0.871	10.039	35.582	35.59	1.000	1.000	0.035935		0.0243	0.0359
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.039	37.387		1.001				0.0448	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.039	39.299		1.000				0.0518	
17	17 OCDF			NO	0.806	10.039	41.919		1.000				0.111	
18	18 13C-2,3,7,8-TCDD	7.76e5	0.79	NO	1.16	10.039	26.522	26.48	1.026	1.025	175.87	88.3	0.203	
19	19 13C-1,2,3,7,8-PeCDD	5.45e5	0.64	NO	0.849	10.039	31.711	31.45	1.227	1.217	168.34	84.5	0.256	
20	20 13C-1,2,3,4,7,8-HxCDD	3.88e5	1.31	NO	0.779	10.039	34.841	34.83	1.014	1.014	179.82	90.3	0.761	
21	21 13C-1,2,3,6,7,8-HxCDD	4.81e5	1.28	NO	1.02	10.039	34.955	34.93	1.017	1.017	170.83	85.7	0.583	
22	22 13C-1,2,3,7,8,9-HxCDD	4.12e5	1.21	NO	0.903	10.039	35.226	35.22	1.025	1.025	164.49	82.6	0.656	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.89e5	1.06	NO	0.689	10.039	38.751	38.74	1.128	1.128	151.11	75.9	0.489	
24	24 13C-OCDD	4.71e5	0.89	NO	0.652	10.039	41.775	41.72	1.216	1.214	260.69	65.4	0.791	
25	25 13C-2,3,7,8-TCDF	9.65e5	0.77	NO	1.06	10.039	25.564	25.60	0.989	0.991	162.12	81.4	0.278	
26	26 13C-1,2,3,7,8-PeCDF	8.28e5	1.61	NO	0.838	10.039	30.093	30.17	1.165	1.168	175.97	88.3	0.530	
27	27 13C-2,3,4,7,8-PeCDF	7.96e5	1.60	NO	0.817	10.039	31.047	31.15	1.202	1.205	173.54	87.1	0.544	
28	28 13C-1,2,3,4,7,8-HxCDF	4.76e5	0.50	NO	1.01	10.039	33.972	33.95	0.989	0.988	170.59	85.6	0.762	
29	29 13C-1,2,3,6,7,8-HxCDF	5.66e5	0.51	NO	1.17	10.039	34.096	34.07	0.992	0.992	174.98	87.8	0.658	
30	30 13C-2,3,4,6,7,8-HxCDF	4.89e5	0.50	NO	1.02	10.039	34.670	34.65	1.009	1.009	172.76	86.7	0.752	
31	31 13C-1,2,3,7,8,9-HxCDF	3.97e5	0.51	NO	0.860	10.039	35.570	35.58	1.035	1.036	166.54	83.6	0.894	



Dataset: U:\VG12.PRO\Results\200604R1\200604R1-11C.qld

Last Altered: Wednesday, July 08, 2020 11:56:48 AM Pacific Daylight Time

Printed: Wednesday, July 08, 2020 12:02:50 PM Pacific Daylight Time

Name: 200604R1\_11, Date: 04-Jun-2020, Time: 15:59:40, ID: 2000964-07 PDI-148SC-A-05-06-200427 11.82, Description: PDI-148SC-A-05-06-200427

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.32e5	0.42	NO	0.774	10.039	37.319	37.35	1.086	1.087	154.86	77.7	0.506	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.25e5	0.42	NO	0.521	10.039	39.349	39.30	1.145	1.144	156.05	78.3	0.752	
34	34 13C-OCDF	5.57e5	0.87	NO	0.746	10.039	41.946	41.92	1.221	1.220	269.73	67.7	0.508	
35	35 37Cl-2,3,7,8-TCDD	3.03e5			1.04	10.039	26.553	26.51	1.028	1.026	76.669	96.2	0.0564	
36	36 13C-1,2,3,4-TCDD	7.60e5	0.80	NO	1.00	10.039	25.890	25.84	1.000	1.000	199.22	100	0.234	
37	37 13C-1,2,3,4-TCDF	1.12e6	0.77	NO	1.00	10.039	24.360	24.16	1.000	1.000	199.22	100	0.294	
38	38 13C-1,2,3,4,6,9-HxCDF	5.52e5	0.50	NO	1.00	10.039	34.420	34.36	1.000	1.000	199.22	100	0.768	
39	39 Total Tetra-Dioxins				0.888	10.039	24.620		0.000		0.26180		0.0561	0.262
40	40 Total Penta-Dioxins				0.908	10.039	29.960		0.000		0.00000		0.0608	0.0258
41	41 Total Hexa-Dioxins				0.892	10.039	33.635		0.000		0.87207		0.107	1.20
42	42 Total Hepta-Dioxins				0.864	10.039	37.640		0.000		3.1163		0.117	3.12
43	43 Total Tetra-Furans				0.751	10.039	23.610		0.000		0.018876		0.0130	0.0357
44	44 1st Func. Penta-Furans				0.893	10.039	27.580		0.000				0.00847	
45	45 Total Penta-Furans				0.893	10.039	29.275		0.000				0.0119	
46	46 Total Hexa-Furans				0.934	10.039	33.555		0.000		0.035935		0.0163	0.0459
47	47 Total Hepta-Furans				0.873	10.039	37.835		0.000				0.0257	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-11C.qld

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Printed: Wednesday, July 08, 2020 12:02:50 PM Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1\_11, Date: 04-Jun-2020, Time: 15:59:40, ID: 2000964-07 PDI-148SC-A-05-06-200427 11.82, Description: PDI-148SC-A-05-06-200427

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.33	5.698e3	6.804e3	3.695e2	5.359e2	0.69	NO	9.054e2	0.26180	0.26180	0.0561

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.22	2.234e3	2.095e3	4.348e1	3.933e1	1.11	YES	0.000e0	0.00000	0.025801	0.0608

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.33	2.121e4	1.744e4	9.030e2	7.649e2	1.18	NO	1.668e3	0.87207	0.87207	0.107
2	Total Hexa-Dioxins	34.17	6.493e3	5.592e3	3.451e2	3.356e2	1.03	YES	0.000e0	0.00000	0.32593	0.107

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.75	1.826e4	1.595e4	1.281e3	1.267e3	1.01	NO	2.548e3	2.0357	2.0357	0.117
2	1,2,3,4,6,7,8-HpCDD	38.77	1.116e4	1.125e4	7.091e2	6.433e2	1.10	NO	1.352e3	1.0806	1.0806	0.117

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.48	8.290e2	2.606e3	2.655e1	6.268e1	0.42	YES	0.000e0	0.00000	0.016787	0.0130
2	Total Tetra-Furans	21.53	8.400e2	1.343e3	2.855e1	4.008e1	0.71	NO	6.863e1	0.018876	0.018876	0.0130

**Penta-Furans function 1**

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-11C.qld

Last Altered: Wednesday, July 08, 2020 11:56:48 AM Pacific Daylight Time

Printed: Wednesday, July 08, 2020 12:02:50 PM Pacific Daylight Time

Name: 200604R1\_11, Date: 04-Jun-2020, Time: 15:59:40, ID: 2000964-07 PDI-148SC-A-05-06-200427 11.82, Description: PDI-148SC-A-05-06-200427

**Penta-Furans**

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

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8,9-HxCDF	35.59	9.740e2	1.081e3	3.199e1	3.032e1	1.06	NO	6.231e1	0.035935	0.035935	0.0243
2	Total Hexa-Furans	35.63	4.610e2	7.590e2	1.247e1	1.292e1	0.96	YES	0.000e0	0.00000	0.00996...	0.0163

**Hepta-Furans**

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

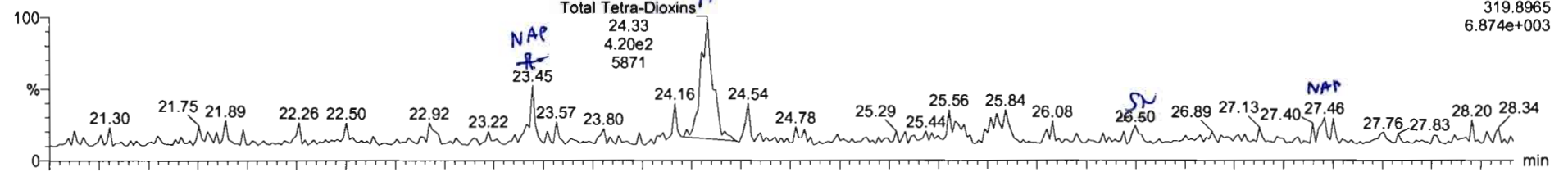
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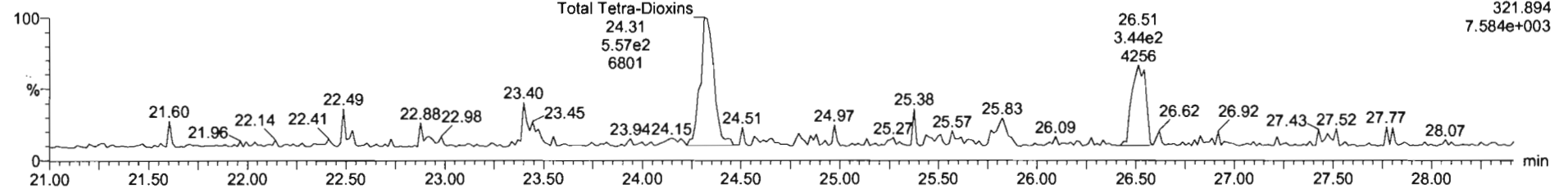
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2,3,7,8-TCDD

200604R1\_11

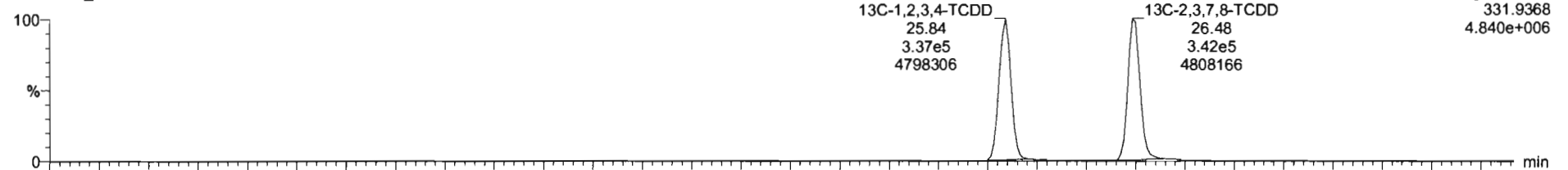


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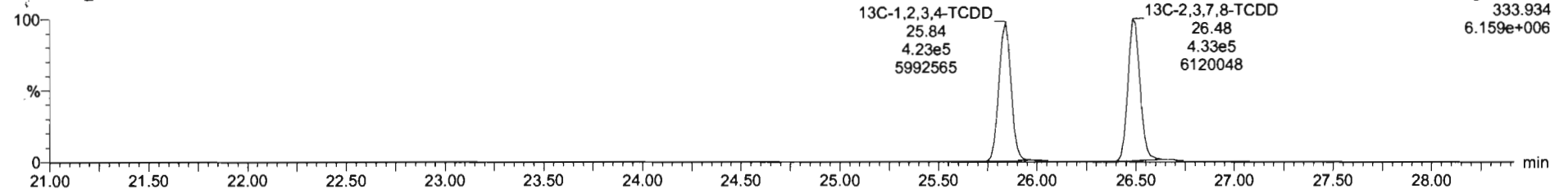


13C-2,3,7,8-TCDD

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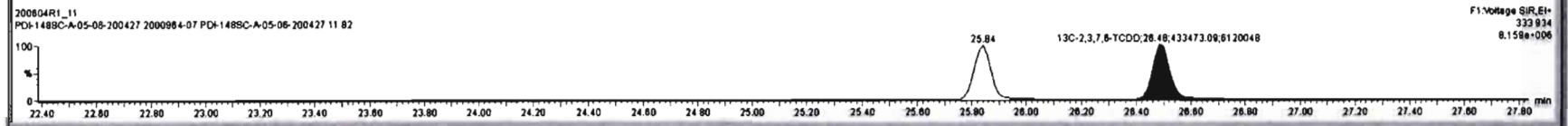
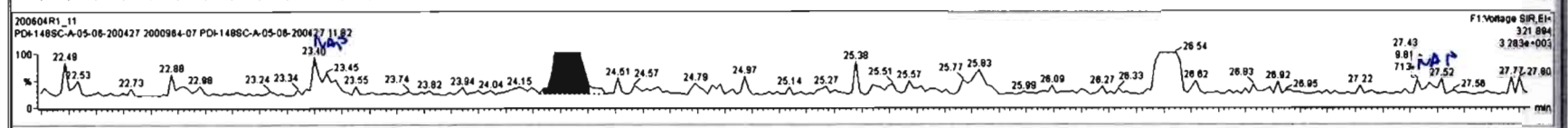
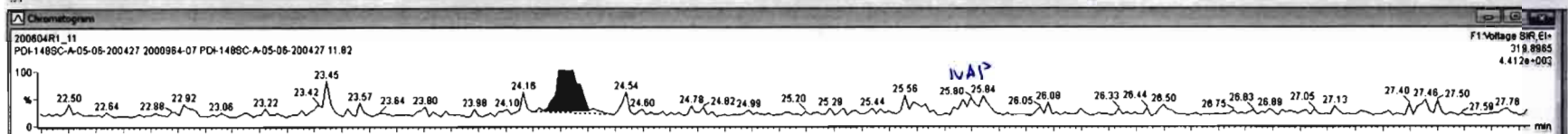
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TargetLyn - 200403-13C.pld  
 File Edit View Display Processing Window Help  
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#	Name	Mass	RA	nly	RW	wtAval	Prod RT	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Chlorine				0.8983	10.039	24.82					0.0081	0.282
40	Total Penta-Chlorine				0.9081	10.039	29.98					0.0008	
41	Total Hexa-Chlorine				0.8923	10.039	33.83			0.836		0.107	1.13
42	Total Hepta-Chlorine				0.9639	10.039	37.84			3.08		0.117	3.09
43	Total Tetra-Furans				0.7510	10.039	23.81					0.0130	
44	1st Func. Penta-Furans				0.8925	10.039	27.58					0.00647	
45	Total Penta-Furans				0.8925	10.039	29.27					0.0119	

#	Name	RT	wt Ramp	wt2 Ramp	RA	nly	EMPC	Conc.
1	Total Tetra-Chlorine	24.33	3.895e2	5.359e2	0.89	NO	0.26180	0.26180

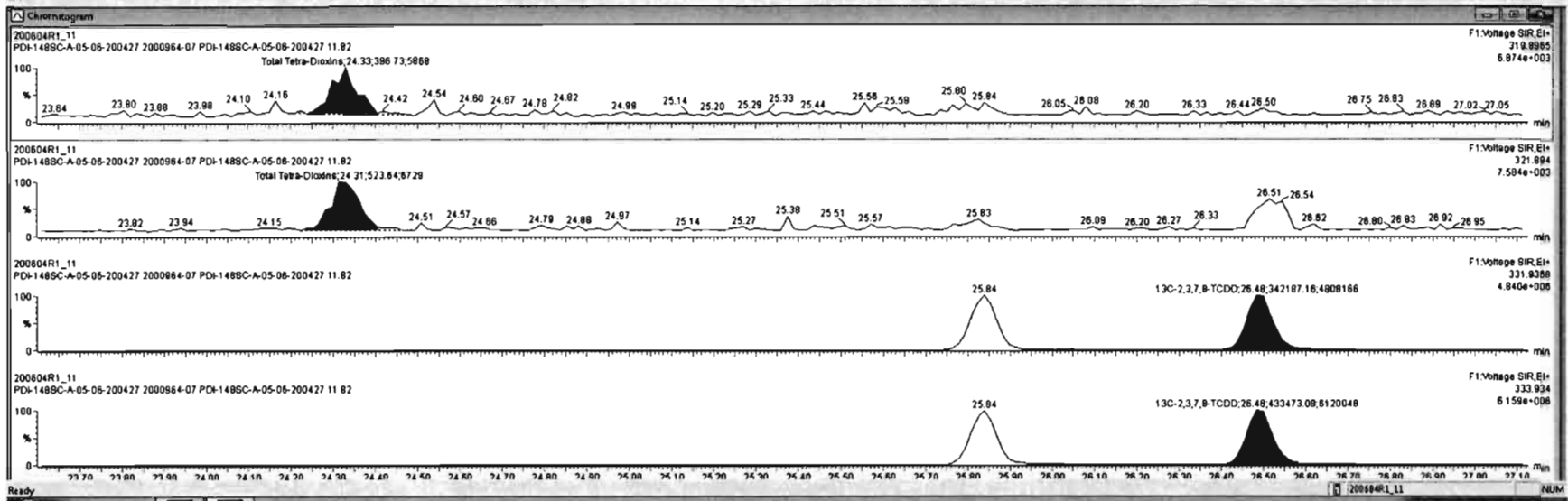


Ready [200403-13C.pld]



#	Name	Conc.	DL	%Rec	EMPC	Area Resp	RRT	RT	#	IS#	RA	Y/N	RRT	Acq Date	Acq Time	1 <sup>st</sup> Chk Mass	ID	Sample Text	Factor1	SM	Cal File	
39	Total Tetra-Dioxins	0.266118	0.0061		0.313701		0.099	29						04-Jun-20	15:59:40		2000984-07	PDI-148SC-A-05	0.0	10.0	obs_1_	
40	Total Penta-Dioxins		0.0000				0.908	40						04-Jun-20	15:59:40		2000984-07	PDI-148SC-A-05	0.0	10.0	obs_1_	
41	Total Hexa-Dioxins	0.836719	0.107		1.13426		0.892	41						04-Jun-20	15:59:40		2000984-07	PDI-148SC-A-05	0.0	10.0	obs_1_	
42	Total Hepta-Dioxins	3.09196	0.117		3.09196		0.964	42						04-Jun-20	15:59:40		2000984-07	PDI-148SC-A-05	0.0	10.0	obs_1_	
43	Total Tetra-Furans		0.0130				0.751	43						04-Jun-20	15:59:40		2000984-07	PDI-148SC-A-05	0.0	10.0	obs_1_	
44	1st Func. Penta-Furans		0.00647				0.893	44						04-Jun-20	15:59:40		2000984-07	PDI-148SC-A-05	0.0	10.0	obs_1_	
45	Total Penta-Furans		0.0119				0.893	45						04-Jun-20	15:59:40		2000984-07	PDI-148SC-A-05	0.0	10.0	obs_1_	
46	Total Hexa-Furans		0.0163				0.934	46						04-Jun-20	15:59:40		2000984-07	PDI-148SC-A-05	0.0	10.0	obs_1_	
47	Total Hepta-Furans		0.0257				0.873	47						04-Jun-20	15:59:40		2000984-07	PDI-148SC-A-05	0.0	10.0	obs_1_	
48	PFK1							48														
49	PFK2							49														
50	PFK3							50														

#	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	rv	Resp	Conc.	EMPC
1	Total Tetra-Dioxins	23.45	2.737e3	2.054e3	9.866e1	9.299e1	0.95	YES	0.000e0	0.000	0.0476
2	Total Tetra-Dioxins	24.33	5.869e3	6.728e3	3.967e2	5.236e2	0.76	NO	9.204e2	0.266	0.260





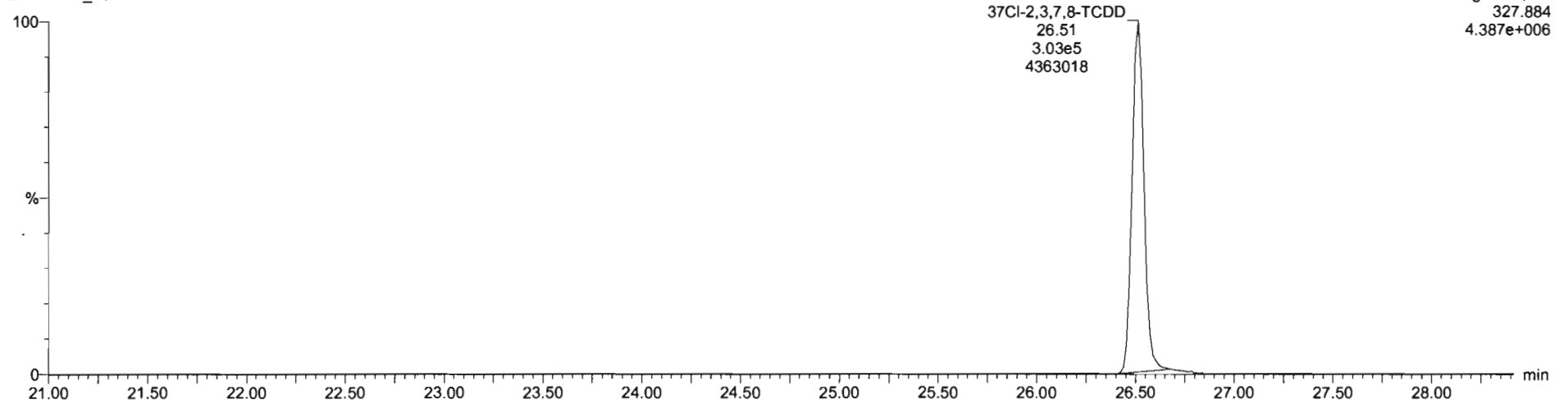
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Name: 200604R1\_11, Date: 04-Jun-2020, Time: 15:59:40, ID: 2000964-07 PDI-148SC-A-05-06-200427 11.82, Description: PDI-148SC-A-05-06-200427

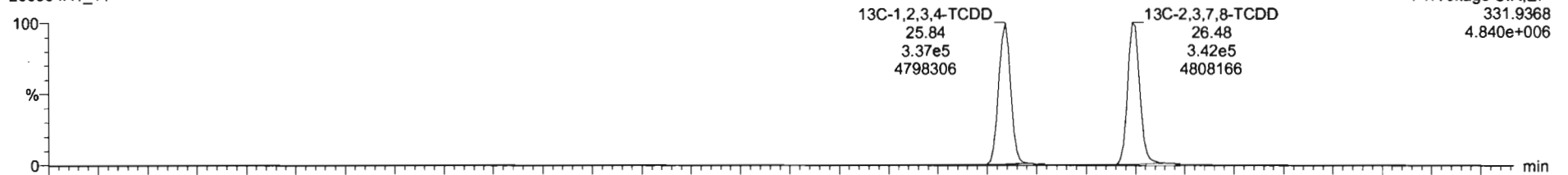
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200604R1\_11

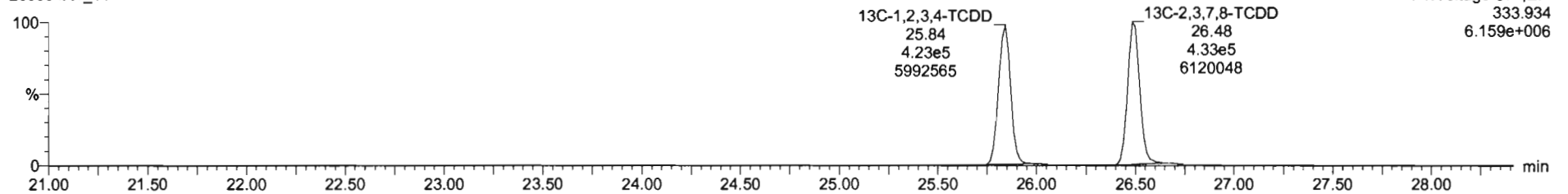


**13C-1,2,3,4-TCDD**

200604R1\_11



200604R1\_11



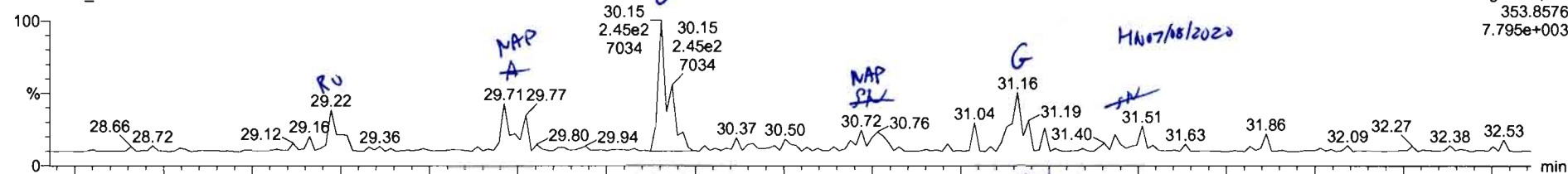
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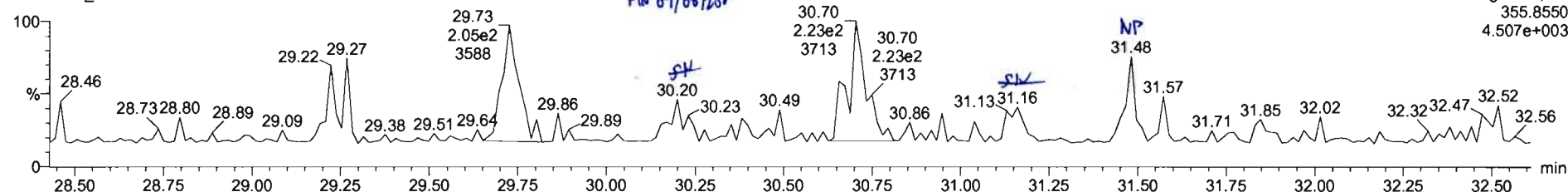
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1,2,3,7,8-PeCDD

200604R1\_11

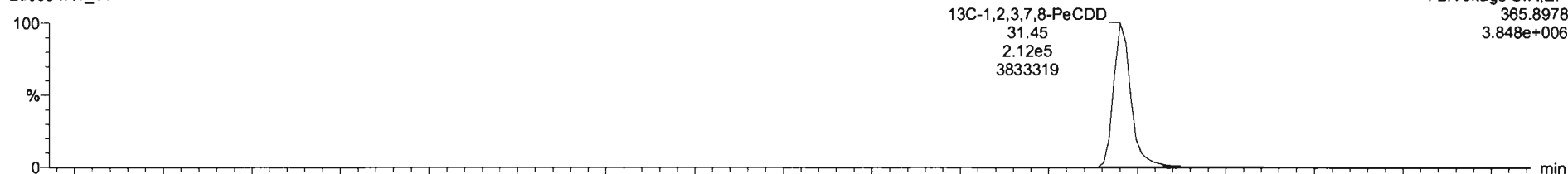


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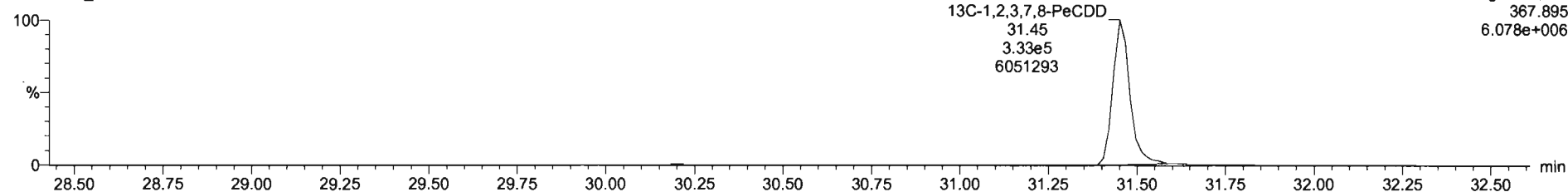


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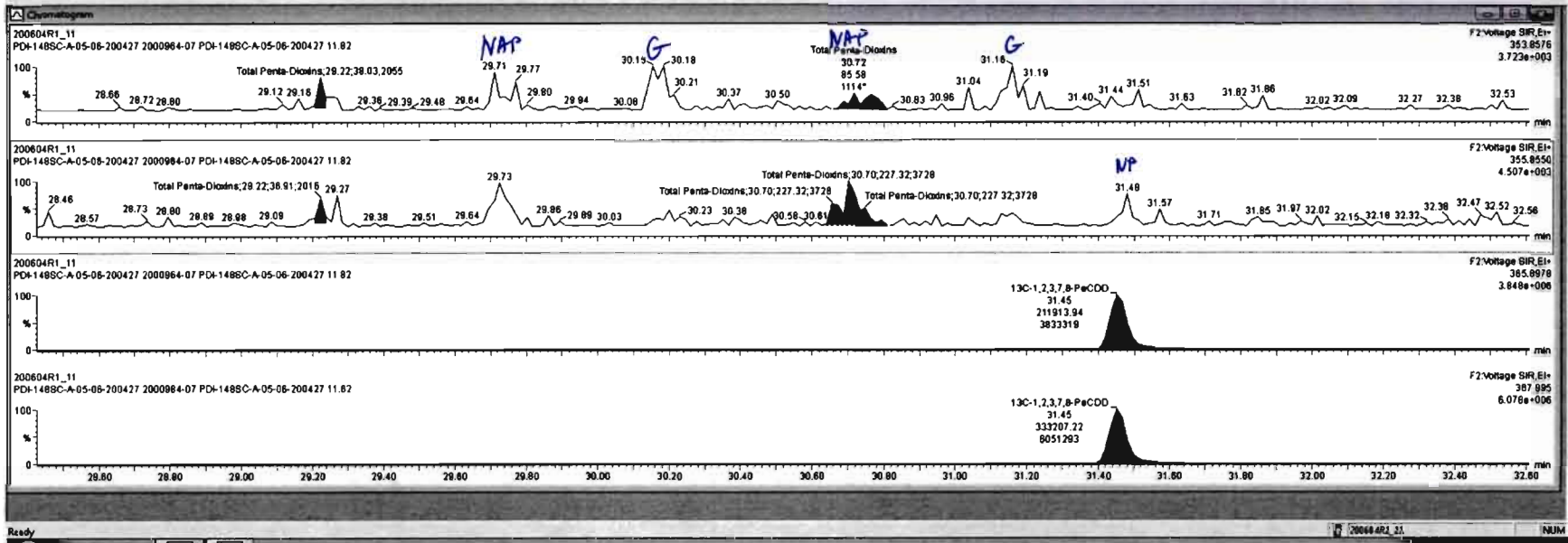


200604R1\_11



#	Name	Resp	RA	n/y	RF	ret'd	Prod.RT	RT	WRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.0083	10.036	24.02			0.266		0.0581	0.314
40	Total Penta-Dioxins				0.0091	10.036	26.89			0.000		0.2608	0.118
41	Total Hexa-Dioxins				0.0123	10.036	33.63			0.843		0.107	1.13
42	Total Hepta-Dioxins				0.0630	10.036	37.64			3.05		0.117	3.05
43	Total Tetra-Furans				0.7510	10.036	23.61			0.000		0.0130	0.0331
44	1st Func. Penta-Furans				0.0825	10.036	27.58					0.00947	
45	Total Penta-Furans				0.0825	10.036	29.27					0.0119	

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	29.22	3.803e1	3.891e1	1.03	YES	0.024213	0.00000
2	Total Penta-Dioxins	30.72	8.598e1	2.273e2	0.38	YES	0.099533	0.00000



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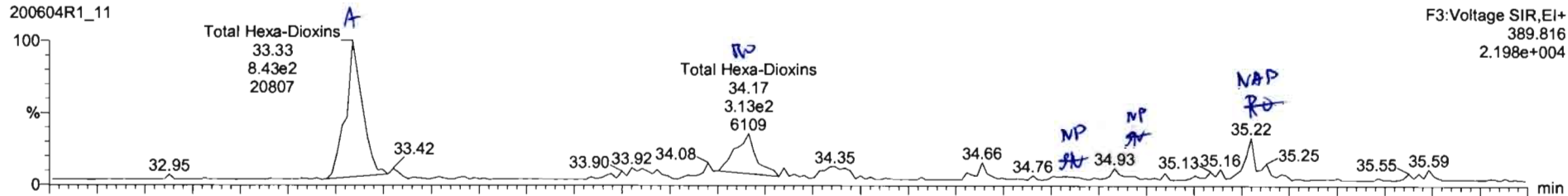
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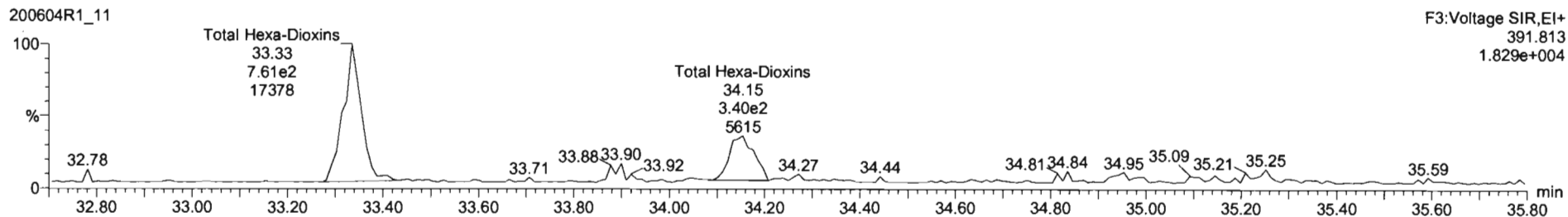
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1,2,3,4,7,8-HxCDD

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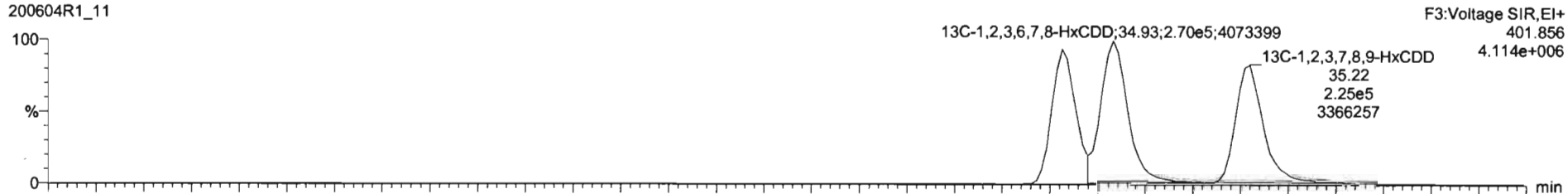


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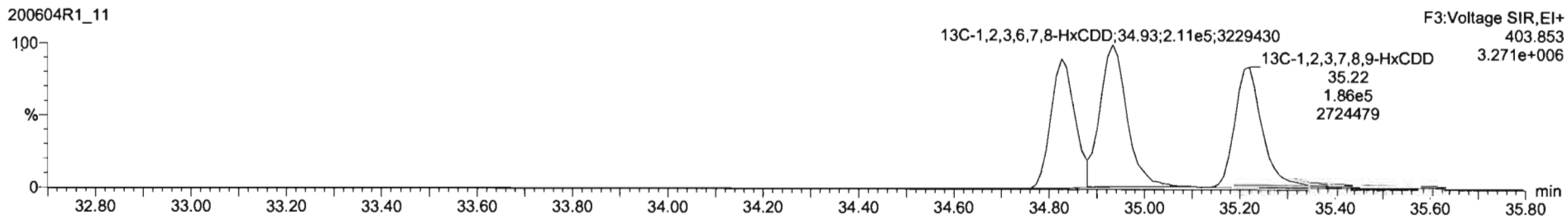


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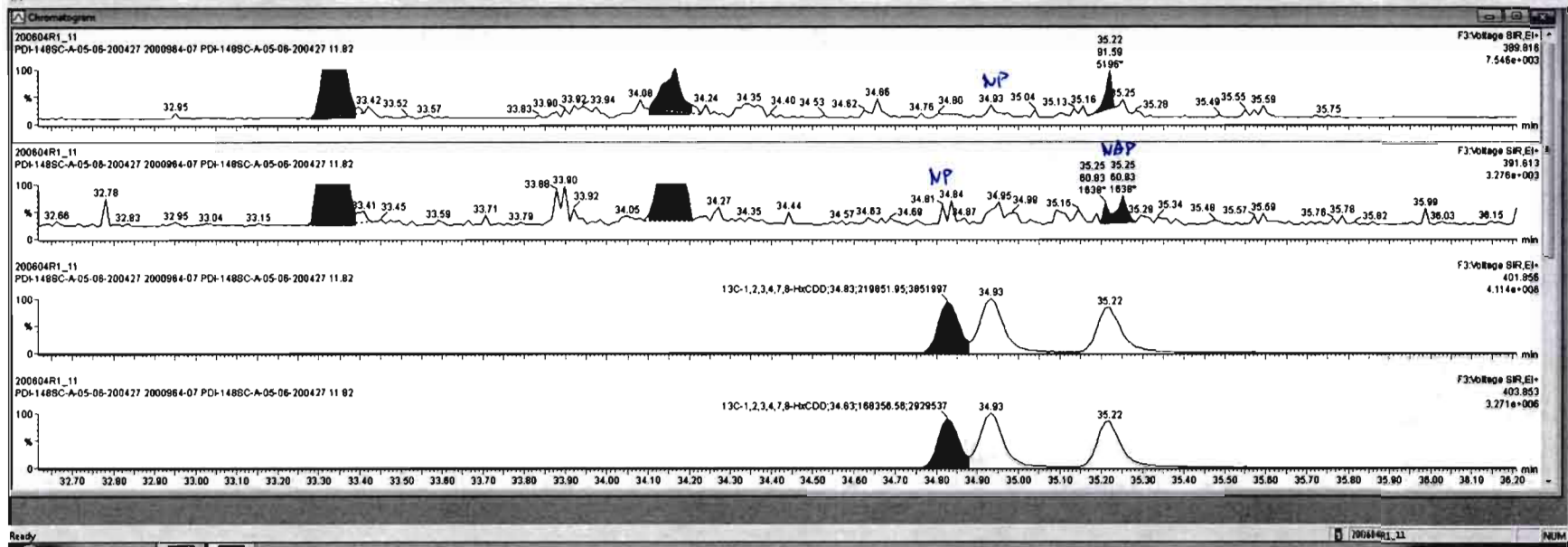


200604R1\_11



#	Name	Resp	RA	n/y	RP	wtVal	Prod.RT	RT	RPY	Conc.	%Area	DL	EMPC
41	Total Hexa-Dioxins				0.8623	10.030	37.83					0.107	1.13
42	Total Hepta-Dioxins				0.8630	10.030	37.84			3.05		0.117	3.05
43	Total Tetra-Furans				0.7510	10.030	23.81			0.000	0.0130	0.0331	
44	Total Penta-Furans				0.8625	10.030	27.68				0.00847		
45	Total Hexa-Furans				0.8625	10.030	28.27				0.0118		
46	Total Hexa-Furans				0.8341	10.030	33.25			0.000	0.0183	0.0478	
47	Total Hepta-Furans				0.8734	10.030	37.83				0.0257		

#	Name	RT	wt Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxins	33.33	0.630e2	7.478e2	1.18	NO	0.84270	0.84270
2	Total Hexa-Dioxins	34.17	3.047e2	3.356e2	0.91	YES	0.28777	0.00000



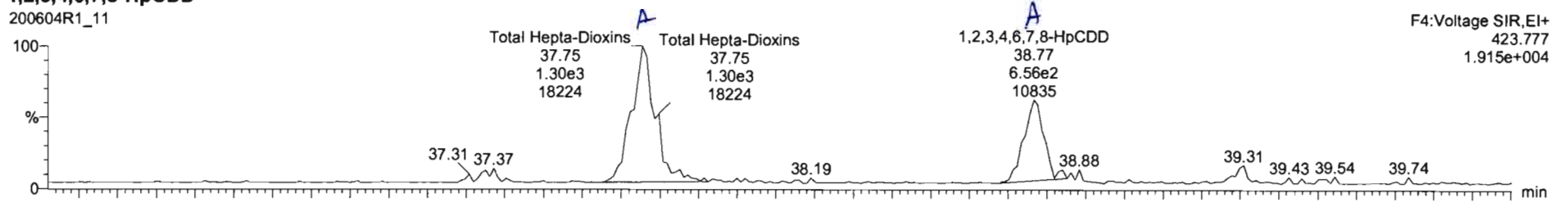
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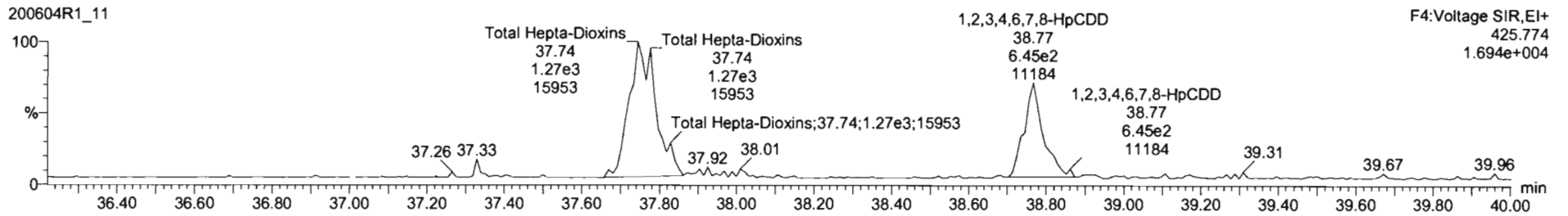
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1,2,3,4,6,7,8-HpCDD

200604R1\_11

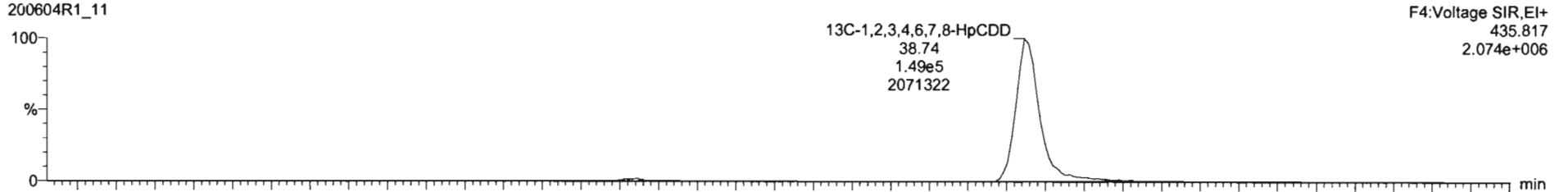


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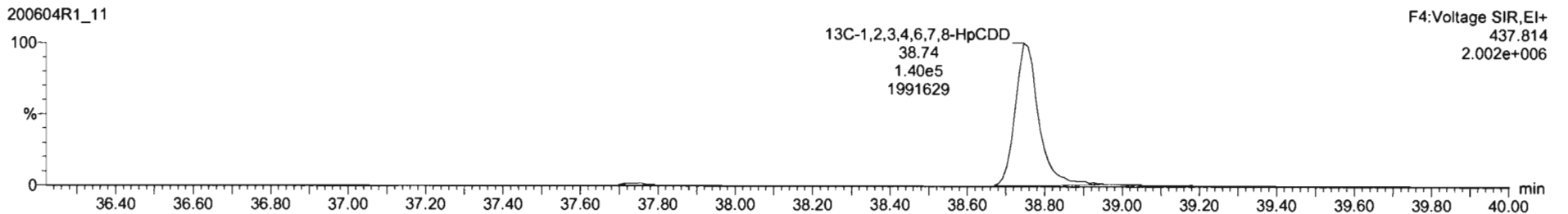


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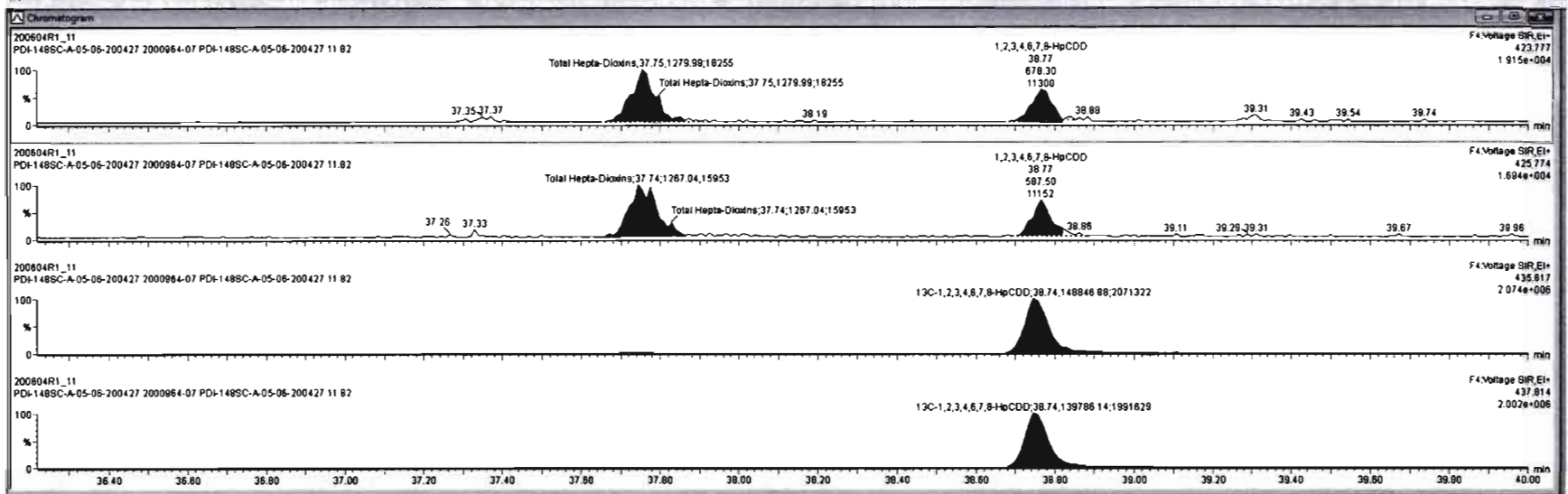
200604R1\_11





#	Name	Resp	RA	n/y	R/R	wtAve	RT	RRT	Conc	%Rec	DL	BMP
41	Total Hexa-Dioxins				0.8923	10.038			0.843		0.107	1.22
42	Total Hepta-Dioxins				0.8838	10.038			3.05		0.117	3.05
43	Total Tetra-Furans				0.7510	10.038					0.0130	
44	1st Func. Penta-Furans				0.8925	10.038					0.02847	
45	Total Penta-Furans				0.8925	10.038					0.0119	

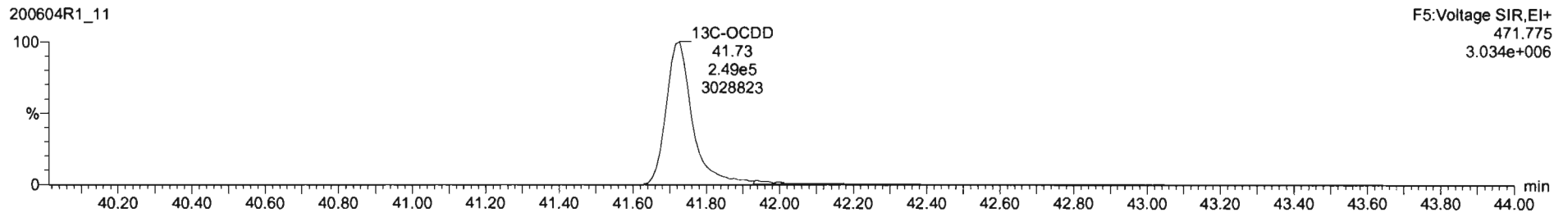
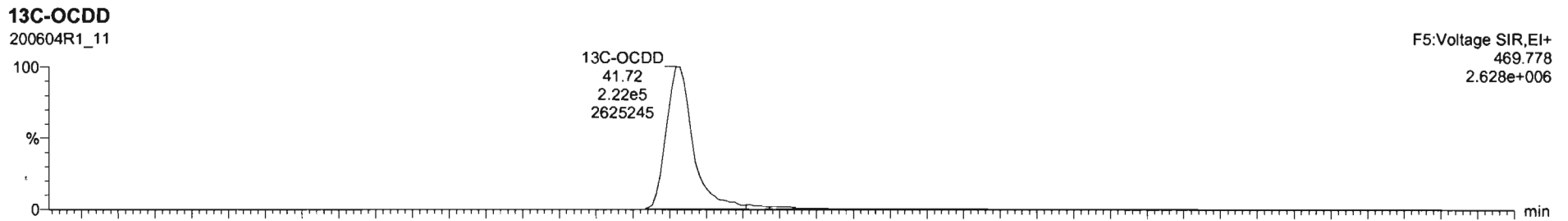
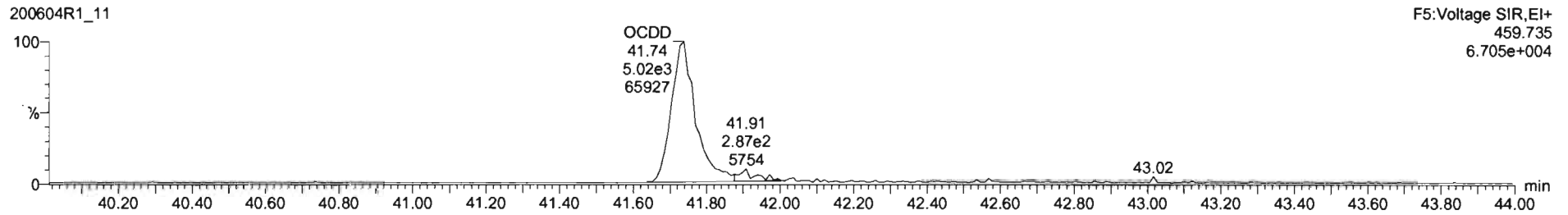
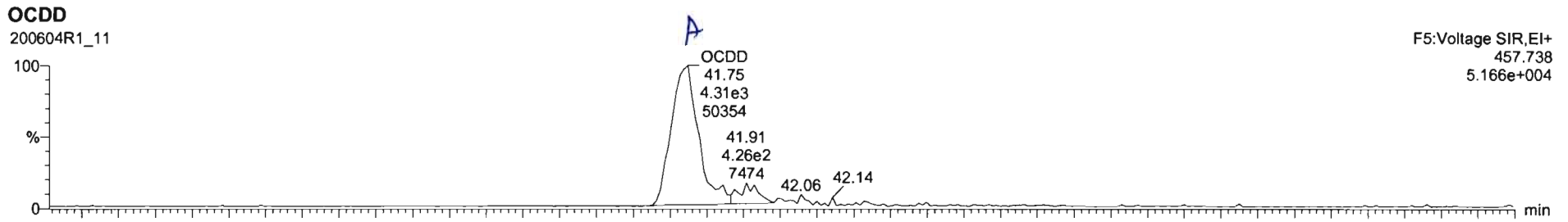
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	BMP	Conc
1	Total Hepta-Dioxins	37.75	1.280e3	1.267e3	1.01	NO	2.0350	2.0350
2	1,2,3,4,6,7,8-HpCDD	38.77	6.783e2	5.875e2	1.15	NO	1.0113	1.0113



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

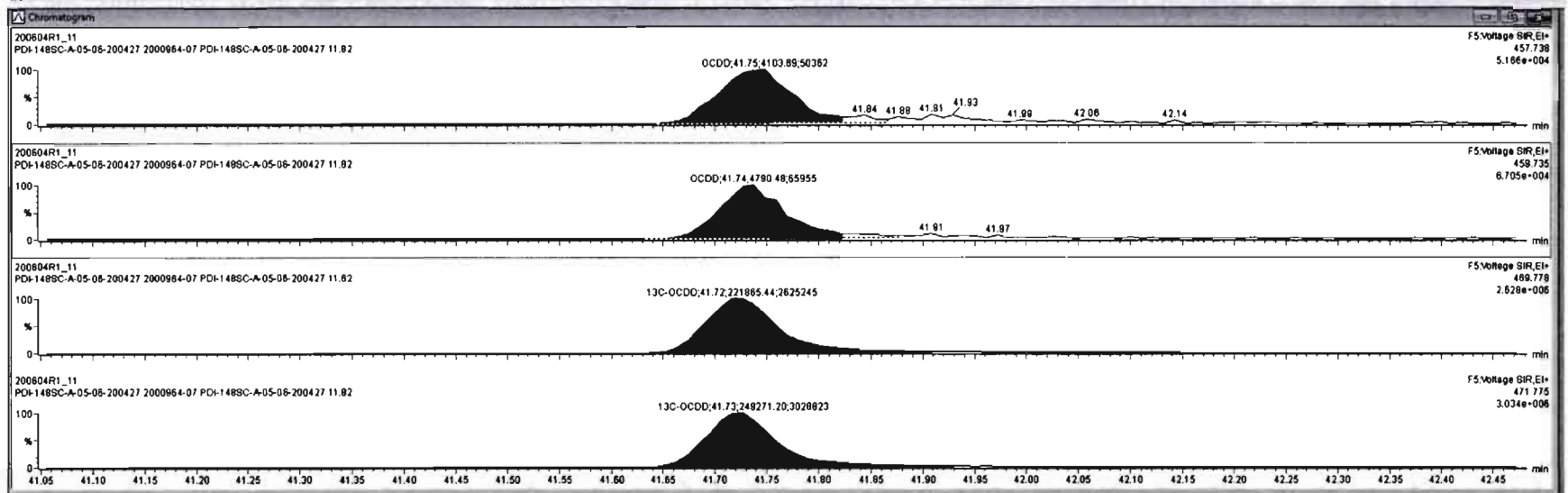
Name: 200604R1\_11, Date: 04-Jun-2020, Time: 15:59:40, ID: 2000964-07 PDI-148SC-A-05-06-200427 11.82, Description: PDI-148SC-A-05-06-200427



TargetLynx - 200804R1-11B.qtd  
 File Edit View Display Processing Window Help

#	Name	Resp	RA	inV	RRF	wtAval	RT	RRT	Conc.	%Resp	DL	EMPC
27	13C-2,3,4,7,8-PeCDF	7.96e5	1.80	NO	0.8186	10.030	31.15	1.205	174	87.1	0.544	
28	13C-1,2,3,4,7,8-HxCDF	4.76e5	0.50	NO	1.0075	10.030	33.95	0.980	171	85.6	0.782	
29	13C-1,2,3,6,7,8-HxCDF	5.86e5	0.51	NO	1.1670	10.030	34.07	0.992	175	87.8	0.858	
30	13C-2,3,4,6,7,8-HxCDF	4.89e5	0.50	NO	1.0219	10.030	34.85	1.008	173	86.7	0.752	
31	13C-1,2,3,7,8,9-HxCDF	3.97e5	0.51	NO	0.8996	10.030	35.58	1.036	167	83.6	0.884	

#	Name	RT	in1 Resp	in2 Resp	RA	inV	EMPC	Conc.
1								



Ready 200804R1\_11 NUM

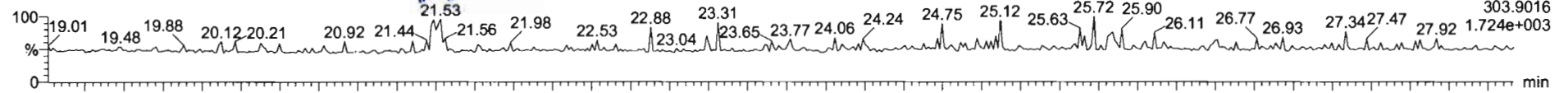
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Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

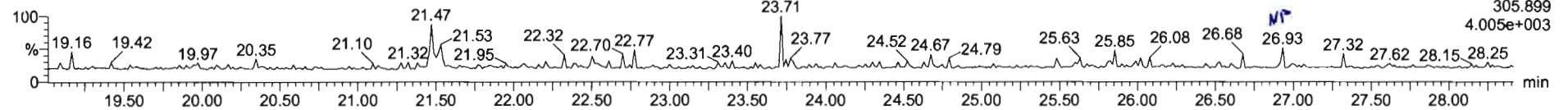
Name: 200604R1\_11, Date: 04-Jun-2020, Time: 15:59:40, ID: 2000964-07 PDI-148SC-A-05-06-200427 11.82, Description: PDI-148SC-A-05-06-200427

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

200604R1\_11

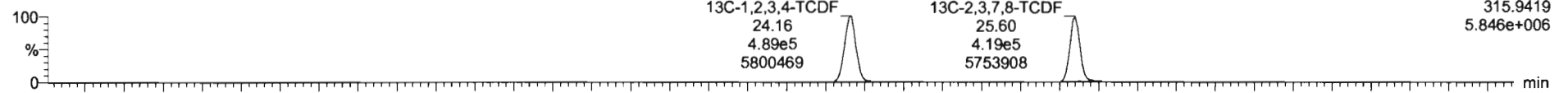


200604R1\_11

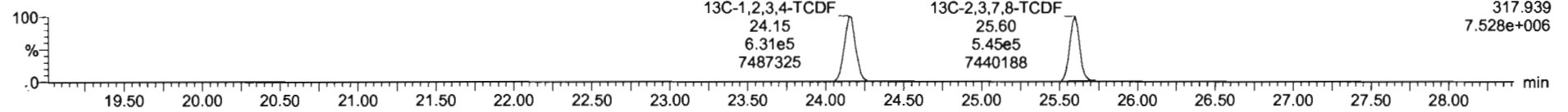


**13C-2,3,7,8-TCDF**

200604R1\_11

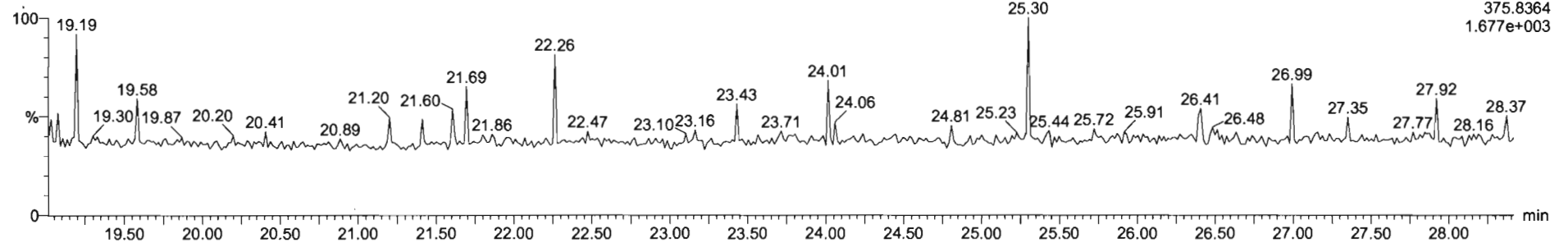


200604R1\_11



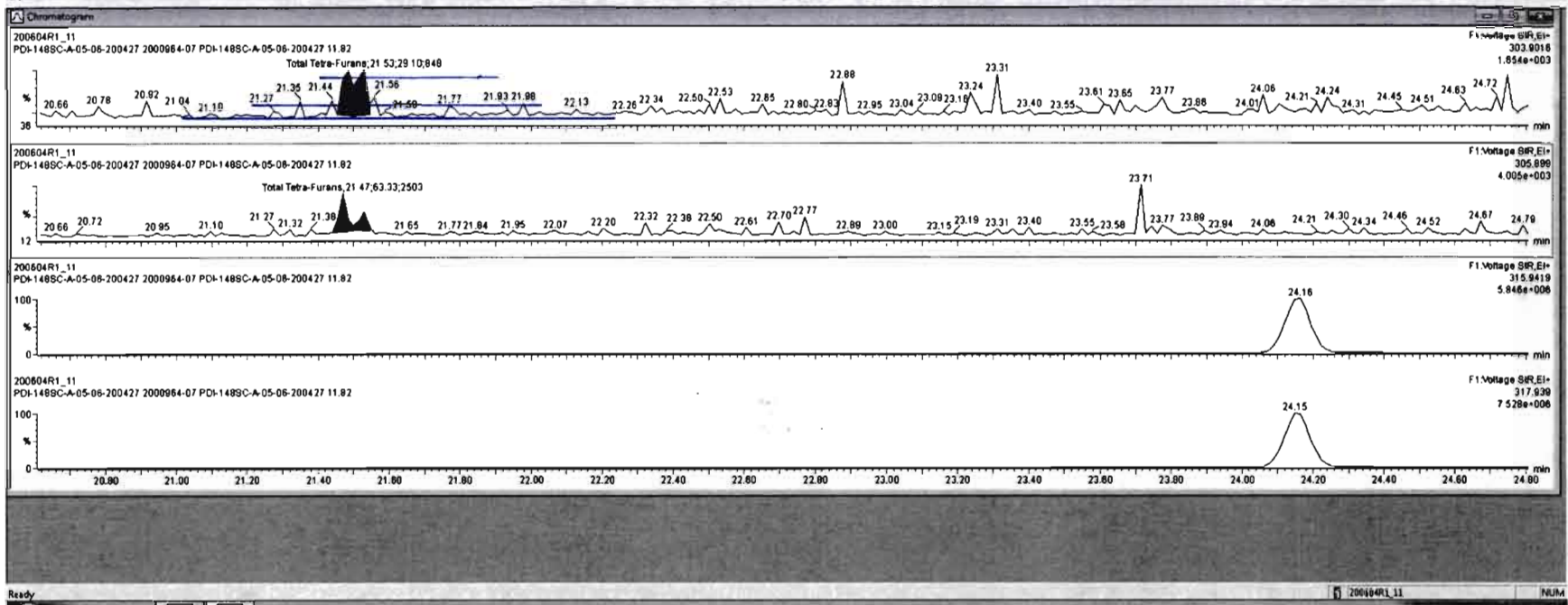
**DPE1**

200604R1\_11



#	Name	Resp	RA	rly	RF	VolVol	RT	RFRT	Conc	%Rec	DL	BMPC
43	Total Tetra-Furans				0.7810	10.030			0.000	0.0136	0.0251	
44	1st Func. Penta-Furans				0.8925	10.030				0.00647		
45	Total Penta-Furans				0.8925	10.030				0.0119		
46	Total Hexa-Furans				0.8241	10.030				0.0183		
47	Total Hepta-Furans				0.8734	10.030				0.0257		

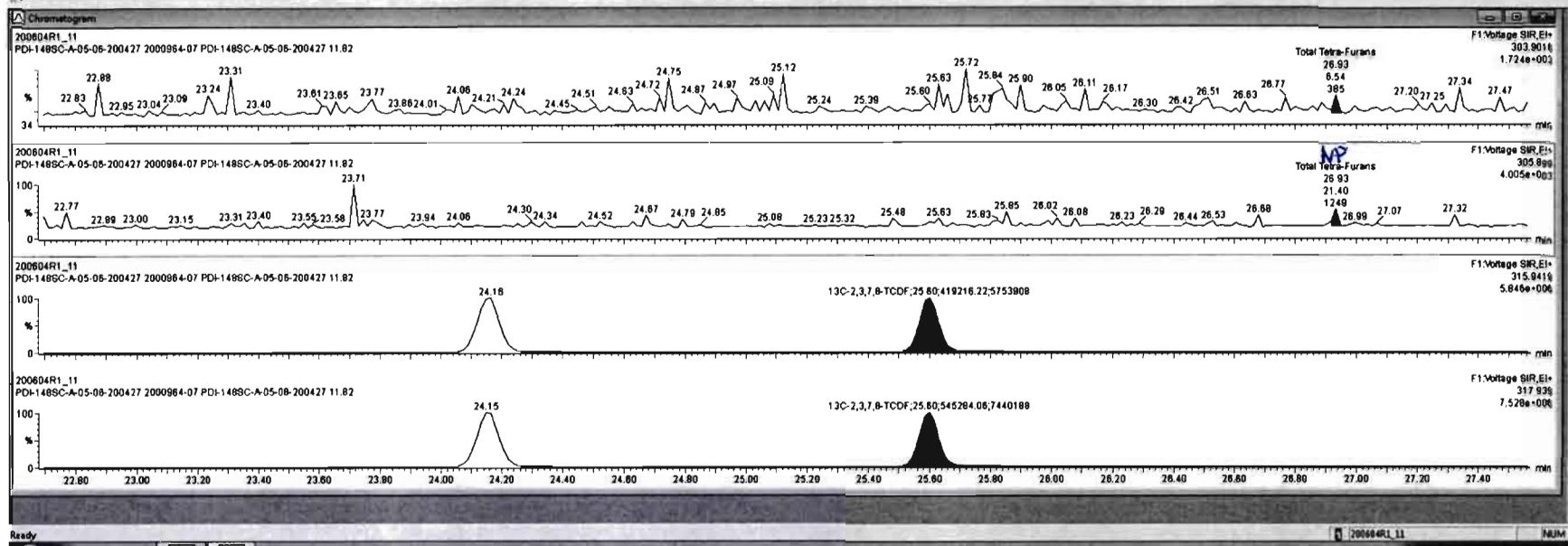
#	Name	RT	m1 Resp	m2 Resp	RA	rly	BMPC	Conc.
1	Total Tetra-Furans	21.48	2.711e1	6.333e1	0.43	YES	0.017130	0.00000
2	Total Tetra-Furans	21.53	2.910e1	3.272e1	0.86	YES	0.015929	0.00000





SI	Name	Resp	RA	n/y	RF	wtAve	ProdRT	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7819	10.030	23.81					0.0039	0.0000
44	1st Func. Penta-Furans				0.8925	10.030	27.58					0.0047	
45	Total Penta-Furans				0.8925	10.030	29.27					0.0119	
46	Total Hexa-Furans				0.8341	10.030	33.58					0.0163	
47	Total Hepta-Furans				0.8734	10.030	37.83					0.0257	
48	PFK1												
49	PFK2												

SI	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	21.48	2.855e1	8.269e1	0.42	YES	0.016787	0.00000
2	Total Tetra-Furans	21.53	2.855e1	4.008e1	0.71	NO	0.018876	0.018876
3	Total Tetra-Furans	26.93	6.541e0	2.140e1	0.31	YES	0.00413...	0.00000





Dataset: Untitled

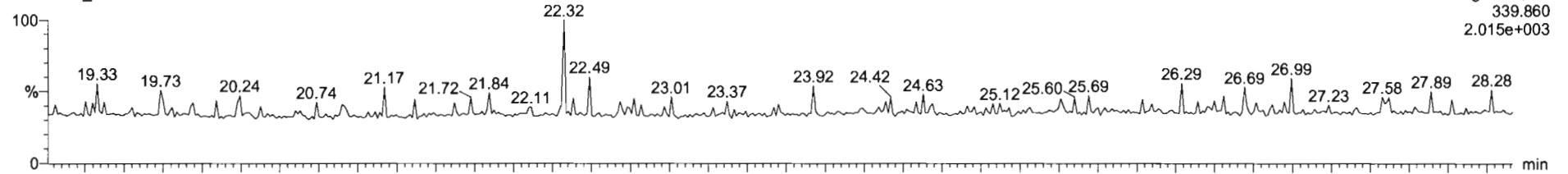
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time

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

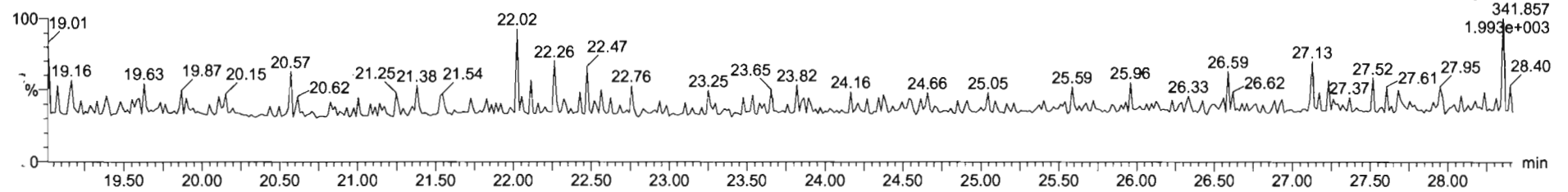
Name: 200604R1\_11, Date: 04-Jun-2020, Time: 15:59:40, ID: 2000964-07 PDI-148SC-A-05-06-200427 11.82, Description: PDI-148SC-A-05-06-200427

1st Func. Penta-Furans

200604R1\_11

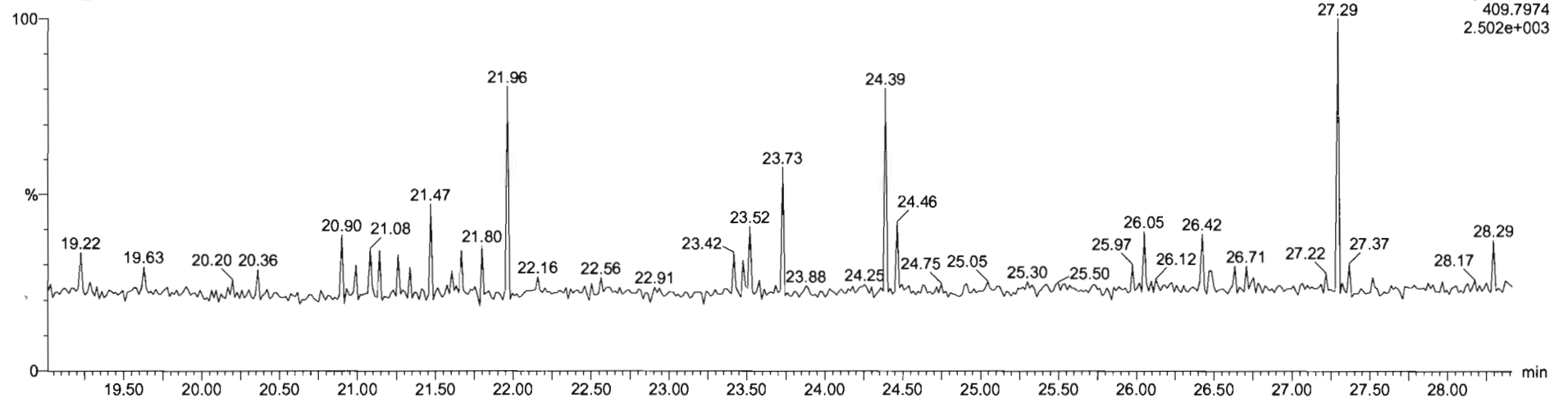


200604R1\_11

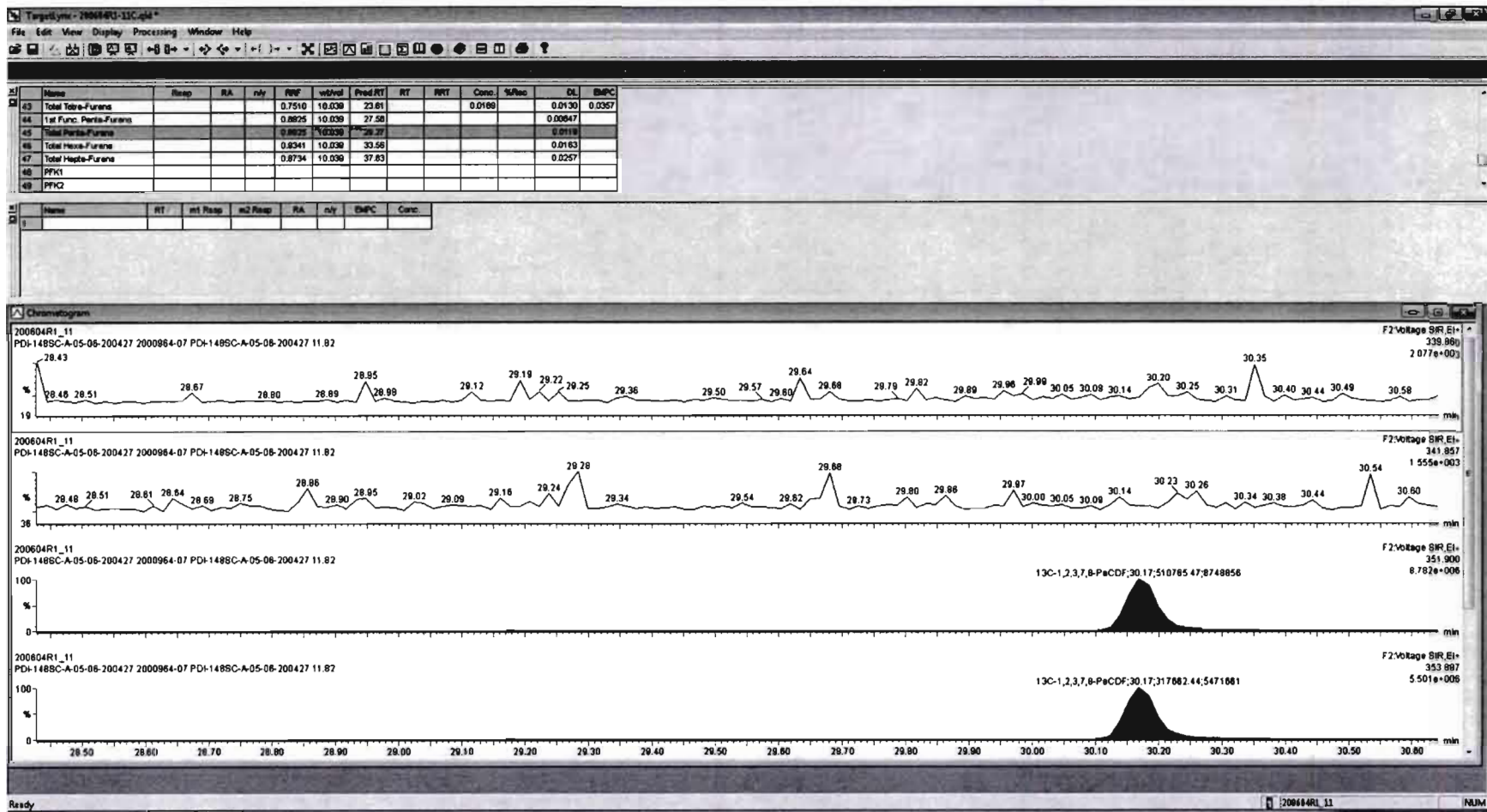


DPE6

200604R1\_11

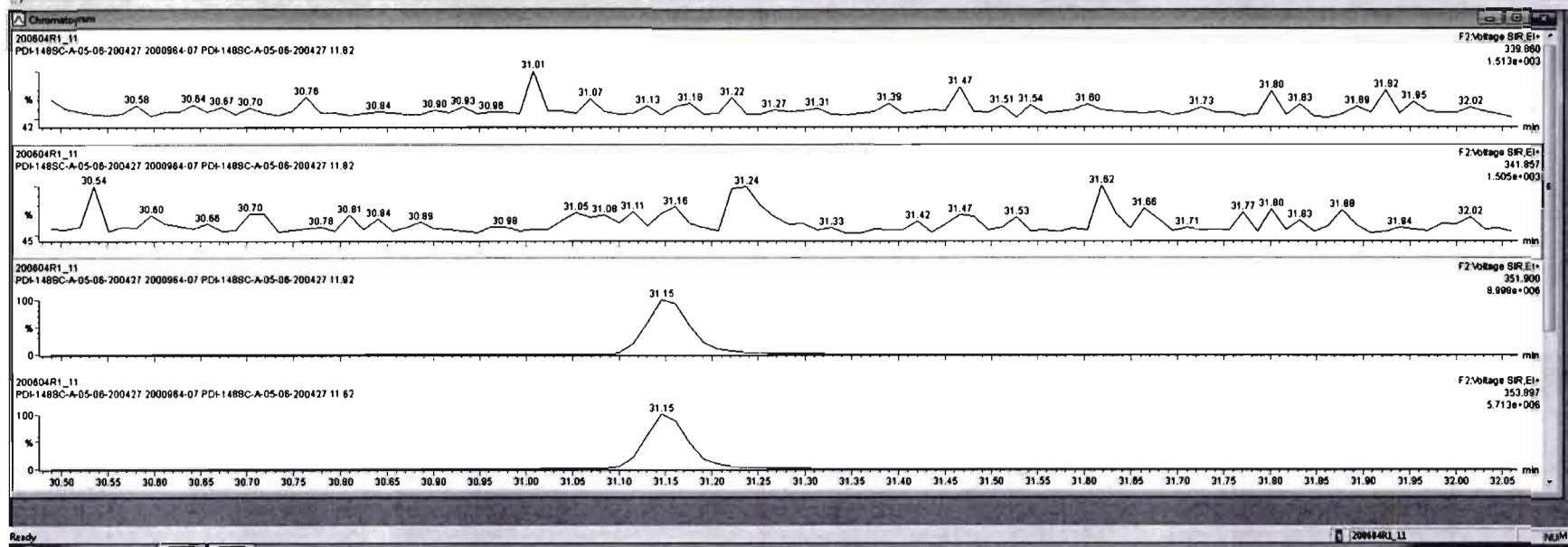






SI	Name	Resp	RA	n/y	FW	wtVol	Prod RT	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7510	10.036	23.81			0.0189		0.0130	0.0357
44	1st Func. Penta-Furans				0.8925	10.036	27.58					0.00647	
45	Total Penta-Furans				0.9925	10.036	29.27					0.0119	
46	Total Hexa-Furans				0.9341	10.036	33.59					0.0163	
47	Total Hepta-Furans				0.8734	10.036	37.83					0.0257	
48	PPK1												
49	PPK2												

SI	Name	RT	ref Resp	nd Resp	RA	n/y	EMPC	Conc.
1								

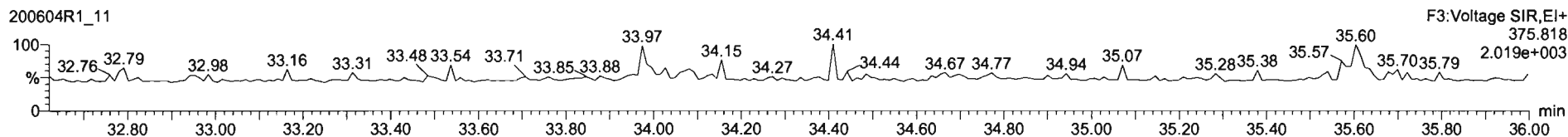
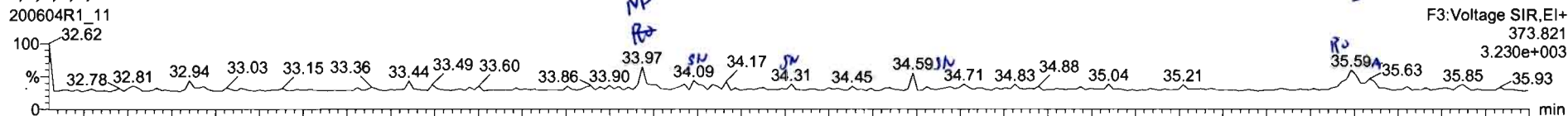


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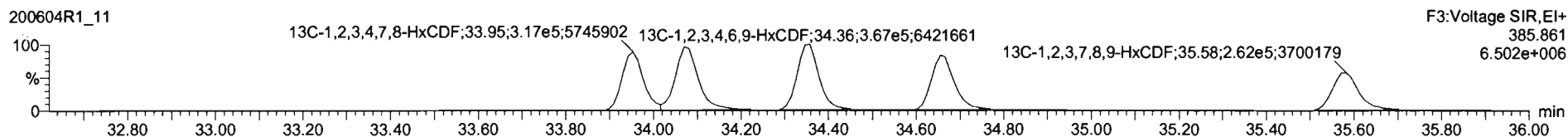
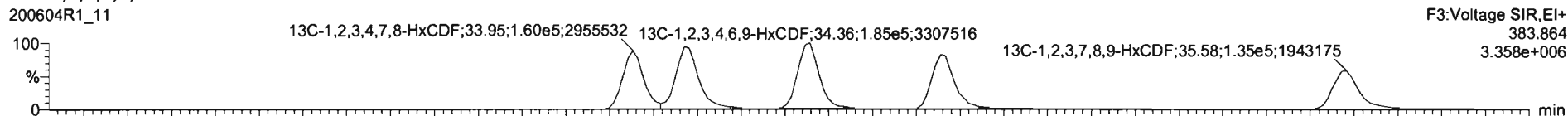
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_11, Date: 04-Jun-2020, Time: 15:59:40, ID: 2000964-07 PDI-148SC-A-05-06-200427 11.82, Description: PDI-148SC-A-05-06-200427

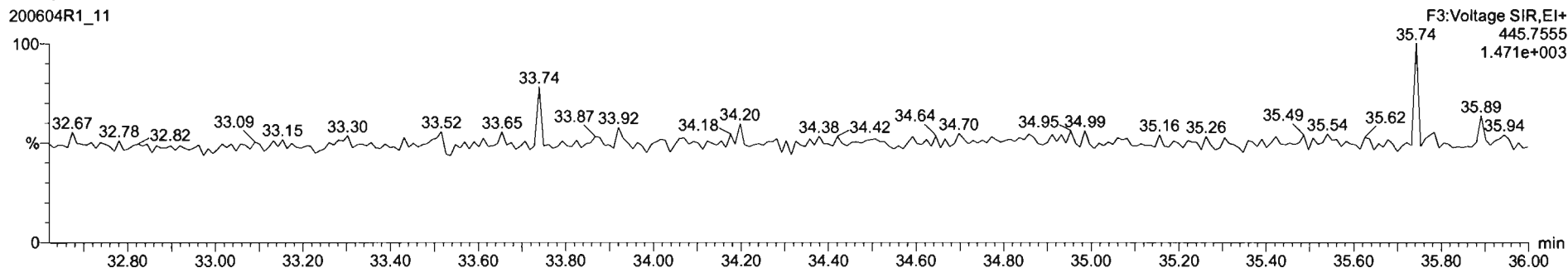
1,2,3,4,7,8-HxCDF



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

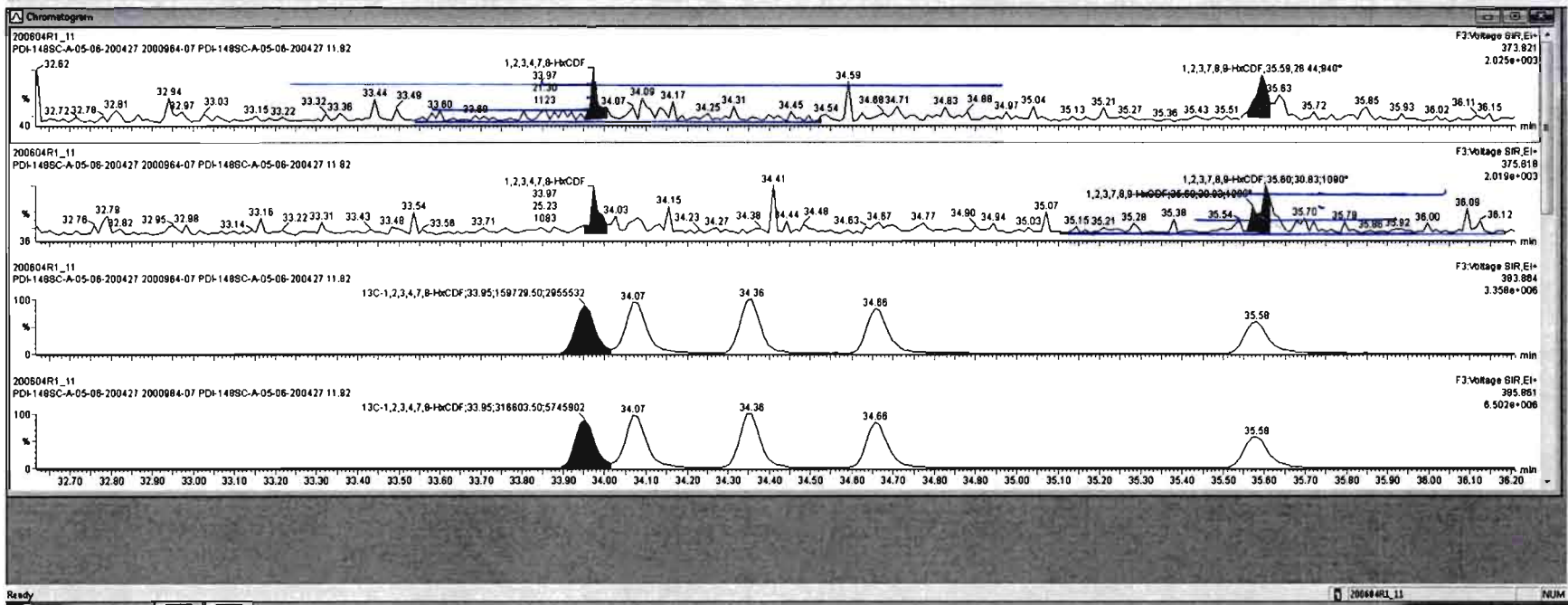


DPE3

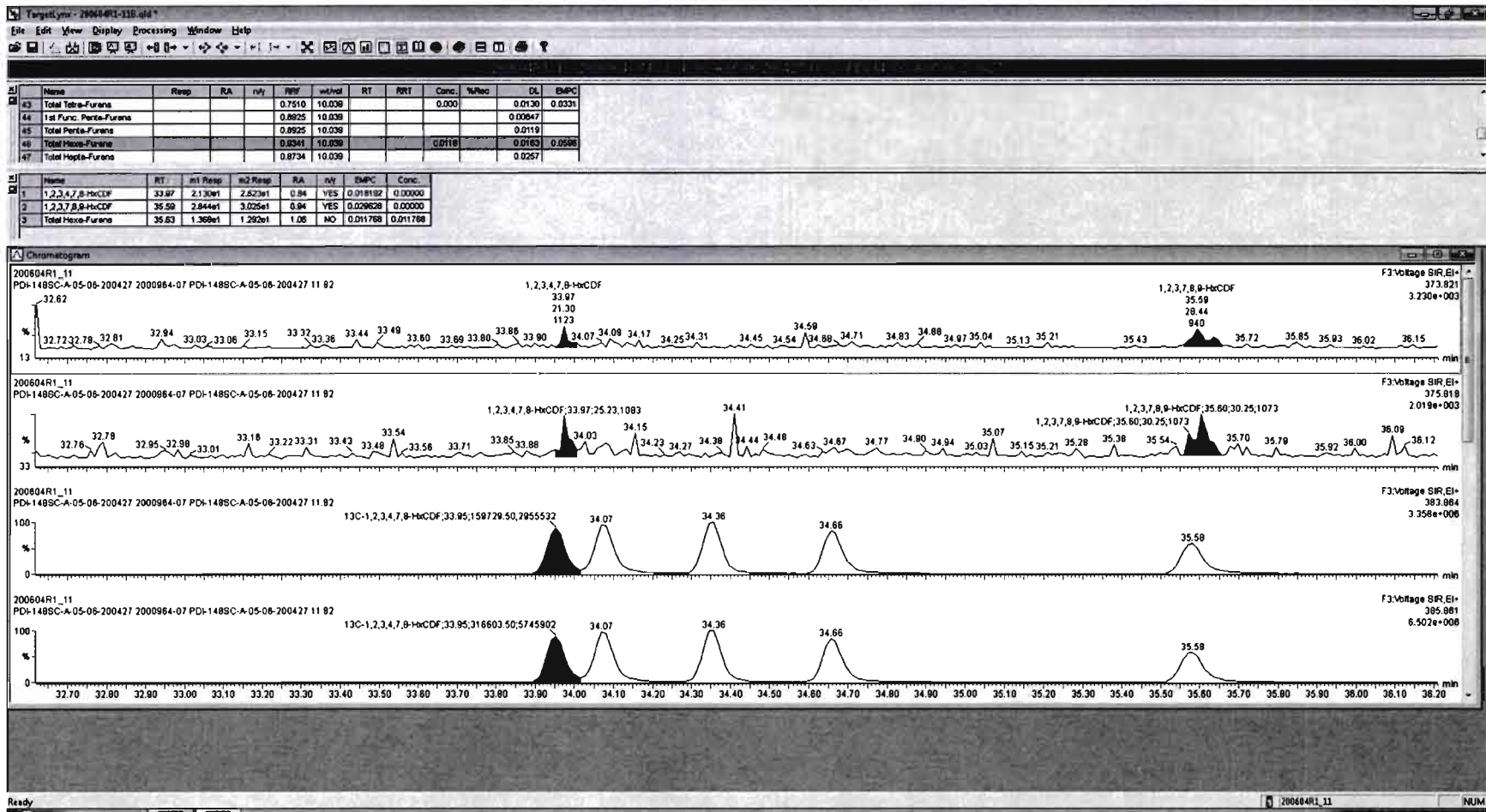


Name	Resp	RA	rv	RF	retVal	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetre-Furans				0.7510	10.030		0.000		0.0130	0.0331
44	1st Furc. Penta-Furans				0.8825	10.030				0.00847	
45	Total Penta-Furans				0.8825	10.030		0.000		0.0119	
46	Total Hexa-Furans				0.8241	10.030				0.0183	0.0307
47	Total Hepta-Furans				0.8734	10.030				0.0257	

Name	RT	m1 Resp	m2 Resp	RA	rv	EMPC	Conc.
1	1,2,3,4,7,8-HxCDF	33.97	2.130e1	0.84	YES	0.018192	0.00000
2	1,2,3,7,8,9-HxCDF	35.59	1.967e1	0.98	YES	0.020492	0.00000







Dataset: Untitled

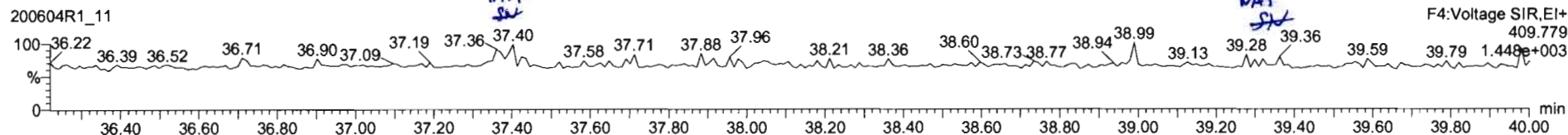
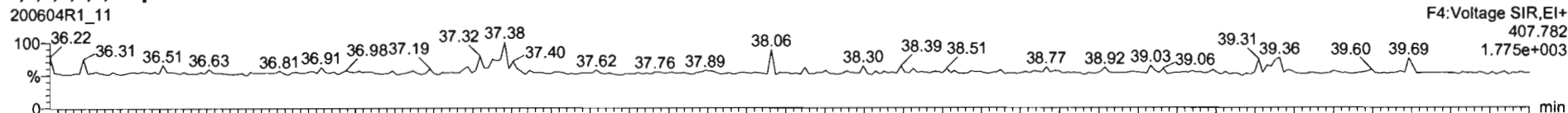
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_11, Date: 04-Jun-2020, Time: 15:59:40, ID: 2000964-07 PDI-148SC-A-05-06-200427 11.82, Description: PDI-148SC-A-05-06-200427

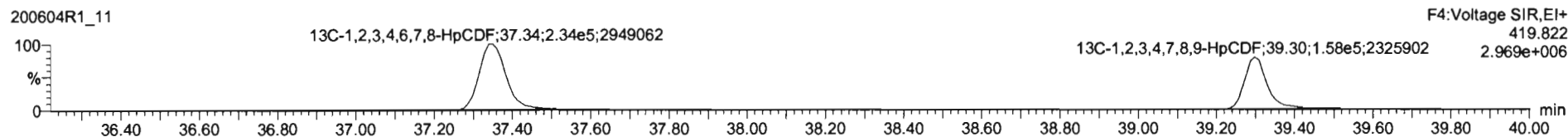
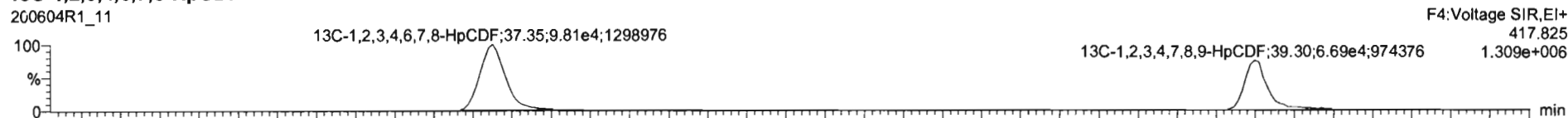
*HN 07/08/2020*

*HN 07/08/2020*

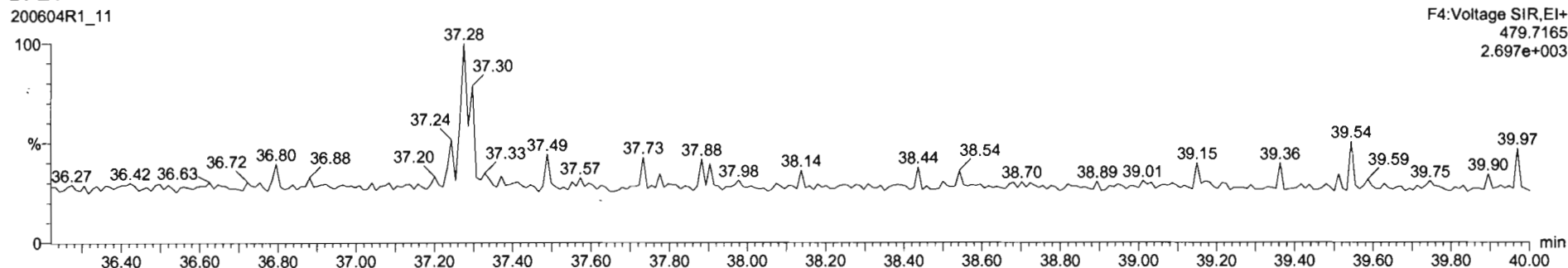
**1,2,3,4,6,7,8-HpCDF**



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

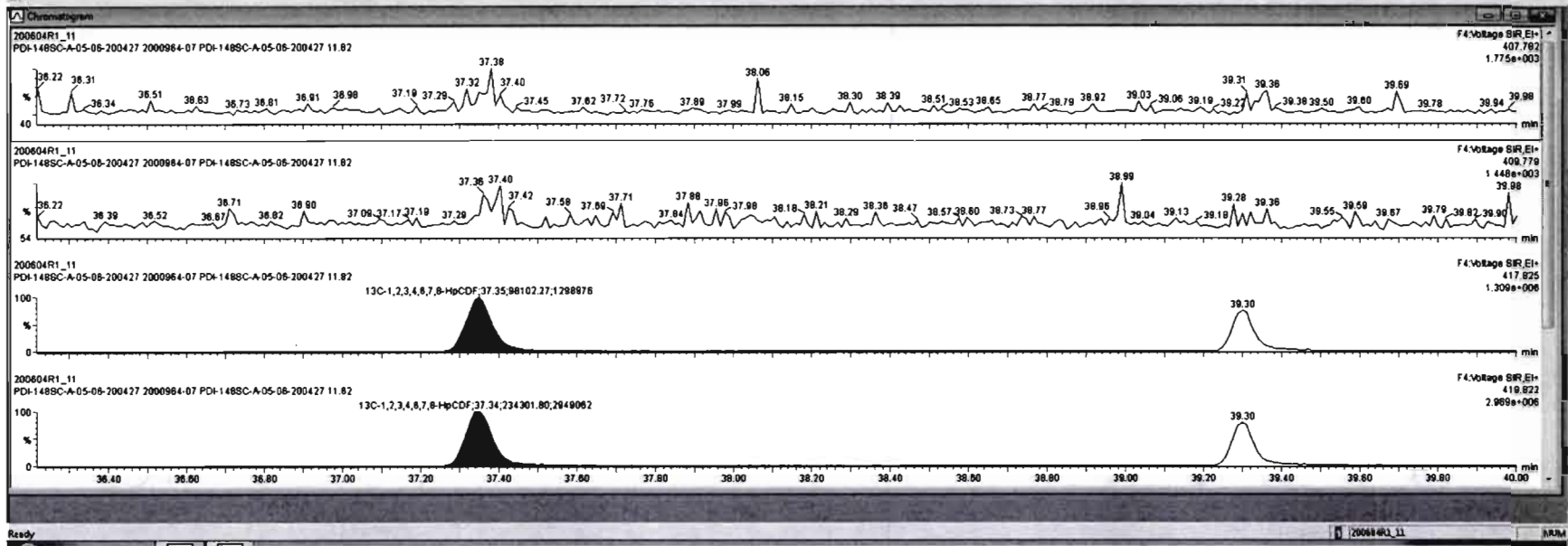


**DPE4**



Index	Name	Resp	RA	nly	RIF	Initial	ProdRT	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7510	10.020	23.61			0.0168		0.0130	0.0267
44	1st Furc. Penta-Furane				0.8925	10.020	27.58					0.00847	
45	Total Hexa-Furans				0.8925	10.020	26.27					0.0118	
46	Total Hepta-Furans				0.8241	10.020	33.56			0.0350		0.0183	0.0459
47	Total Octa-Furans				0.8734	10.020	37.63					0.8267	
48	PFK1												
49	PFK2												

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

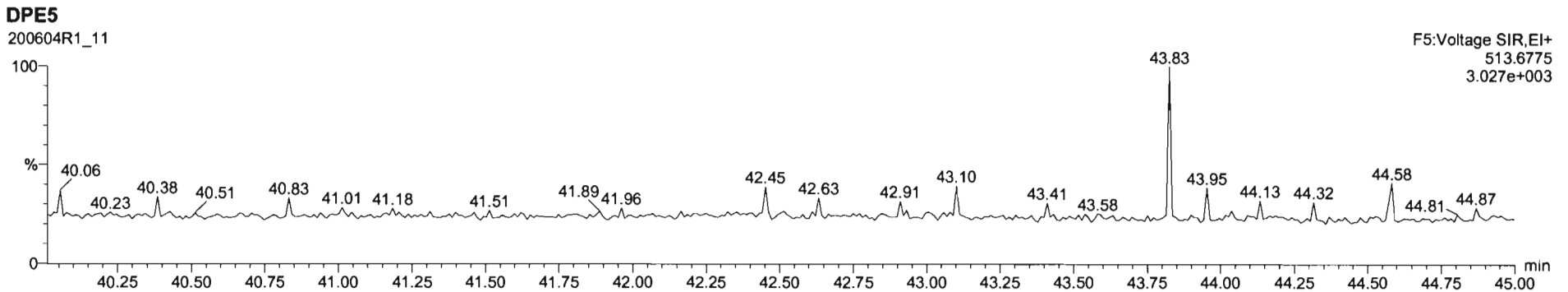
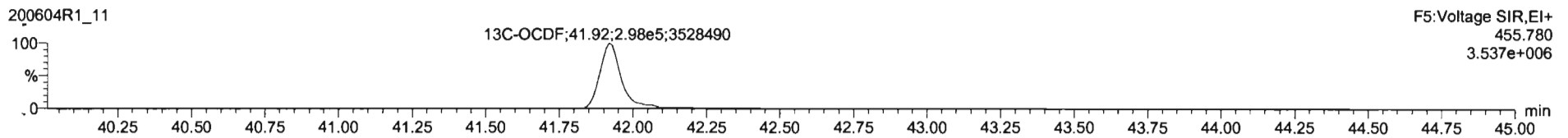
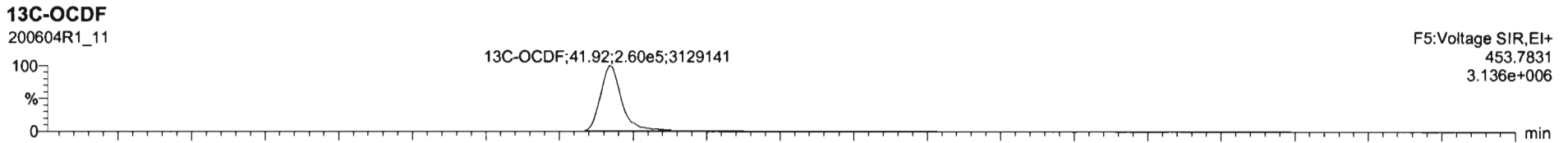
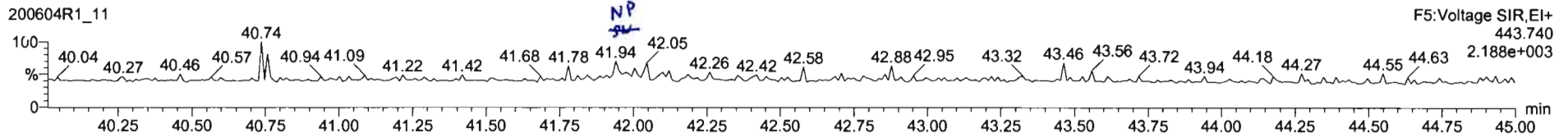
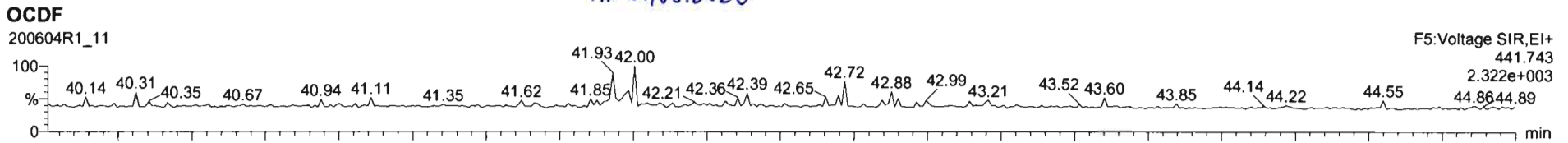


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Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_11, Date: 04-Jun-2020, Time: 15:59:40, ID: 2000964-07 PDI-148SC-A-05-06-200427 11.82, Description: PDI-148SC-A-05-06-200427

*MN 07/08/2020*



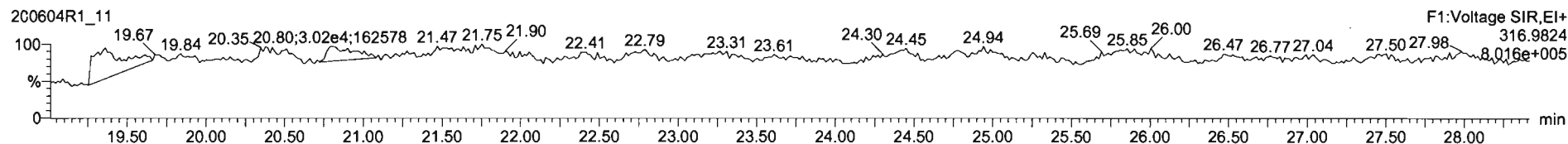
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Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time

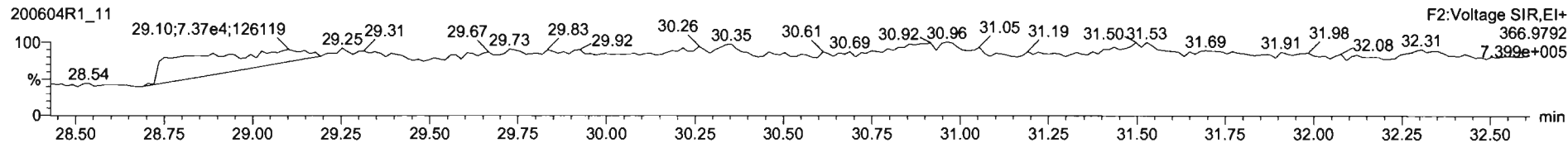
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_11, Date: 04-Jun-2020, Time: 15:59:40, ID: 2000964-07 PDI-148SC-A-05-06-200427 11.82, Description: PDI-148SC-A-05-06-200427

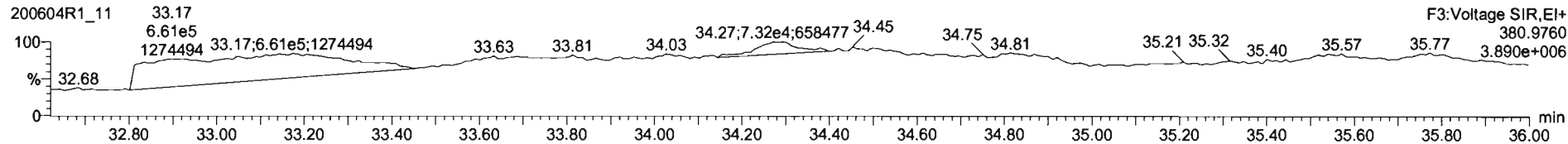
**PFK1**



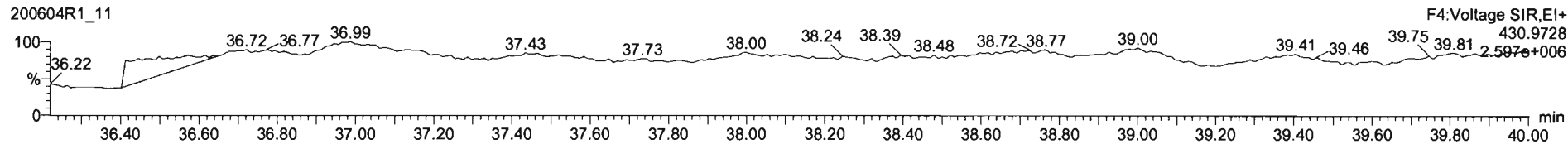
**PFK2**



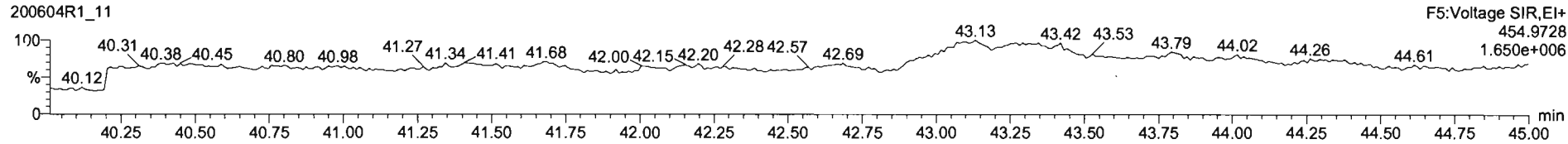
**PFK3**



**PFK4**



**PFK5**





Dataset: U:\VG12.PRO\Results\200604R1\200604R1-12B.qld

Last Altered: Tuesday, July 07, 2020 2:41:38 PM Pacific Daylight Time

Printed: Tuesday, July 07, 2020 2:44:37 PM Pacific Daylight Time

HN 07/07/2020

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

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

C707/16/2020

Name: 200604R1\_12, Date: 04-Jun-2020, Time: 16:45:53, ID: 2000964-08 PDI-148SC-A-06-07-200427 12.17, Description: PDI-148SC-A-06-07-200427

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD												0.0572	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.045	31.473		1.001				0.0775	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.045	34.836		1.000				0.0777	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.045	34.943		1.000				0.0780	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.045	35.220		1.000				0.0927	
6	6 1,2,3,4,6,7,8-HpCDD	5.46e2	1.01	NO	0.864	10.045	38.768	38.78	1.000	1.001	0.40798		0.150	0.408
7	7 OCDD	4.06e3	0.89	NO	0.914	10.045	41.727	41.73	1.000	1.000	3.6077		0.237	3.61
8	8 2,3,7,8-TCDF												0.0306	
9	9 1,2,3,7,8-PeCDF												0.0274	
10	10 2,3,4,7,8-PeCDF												0.0276	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.045	33.952		1.000				0.0310	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.045	34.090		1.000				0.0294	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.045	34.690		1.001				0.0322	
14	14 1,2,3,7,8,9-HxCDF	1.04e2	1.20	NO	0.871	10.045	35.582	35.60	1.000	1.001	0.055652		0.0280	0.0557
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.045	37.387		1.001				0.0454	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.045	39.288		1.000				0.0554	
17	17 OCDF			NO	0.806	10.045	41.919		1.000				0.0669	
18	18 13C-2,3,7,8-TCDD	8.27e5	0.75	NO	1.16	10.045	26.522	26.50	1.026	1.026	190.95	95.9	0.214	
19	19 13C-1,2,3,7,8-PeCDD	5.70e5	0.64	NO	0.849	10.045	31.711	31.45	1.227	1.217	179.39	90.1	0.247	
20	20 13C-1,2,3,4,7,8-HxCDD	3.76e5	1.27	NO	0.779	10.045	34.841	34.83	1.014	1.014	168.45	84.6	0.513	
21	21 13C-1,2,3,6,7,8-HxCDD	4.92e5	1.28	NO	1.02	10.045	34.955	34.94	1.017	1.017	168.79	84.8	0.393	
22	22 13C-1,2,3,7,8,9-HxCDD	4.28e5	1.21	NO	0.903	10.045	35.226	35.21	1.025	1.025	165.52	83.1	0.443	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.08e5	1.02	NO	0.689	10.045	38.751	38.76	1.128	1.128	156.28	78.5	0.318	
24	24 13C-OCDD	4.91e5	0.87	NO	0.652	10.045	41.775	41.73	1.216	1.215	262.63	66.0	0.501	
25	25 13C-2,3,7,8-TCDF	1.03e6	0.79	NO	1.06	10.045	25.564	25.60	0.989	0.991	173.54	87.2	0.300	
26	26 13C-1,2,3,7,8-PeCDF	8.88e5	1.60	NO	0.838	10.045	30.093	30.17	1.165	1.168	188.49	94.7	0.575	
27	27 13C-2,3,4,7,8-PeCDF	8.49e5	1.62	NO	0.817	10.045	31.047	31.15	1.202	1.205	184.99	92.9	0.590	
28	28 13C-1,2,3,4,7,8-HxCDF	5.08e5	0.50	NO	1.01	10.045	33.972	33.95	0.989	0.988	175.94	88.4	0.641	
29	29 13C-1,2,3,6,7,8-HxCDF	6.00e5	0.52	NO	1.17	10.045	34.096	34.08	0.992	0.992	179.45	90.1	0.553	
30	30 13C-2,3,4,6,7,8-HxCDF	5.17e5	0.51	NO	1.02	10.045	34.670	34.65	1.009	1.009	176.69	88.7	0.632	
31	31 13C-1,2,3,7,8,9-HxCDF	4.27e5	0.51	NO	0.860	10.045	35.570	35.58	1.035	1.036	173.49	87.1	0.751	



Dataset: U:\VG12.PRO\Results\200604R1\200604R1-12B.qld

Last Altered: Tuesday, July 07, 2020 2:41:38 PM Pacific Daylight Time  
Printed: Tuesday, July 07, 2020 2:44:37 PM Pacific Daylight Time

Name: 200604R1\_12, Date: 04-Jun-2020, Time: 16:45:53, ID: 2000964-08 PDI-148SC-A-06-07-200427 12.17, Description: PDI-148SC-A-06-07-200427

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.47e5	0.43	NO	0.774	10.045	37.319	37.35	1.086	1.087	156.59	78.6	0.734	
33	13C-1,2,3,4,7,8,9-HpCDF	2.29e5	0.43	NO	0.521	10.045	39.349	39.29	1.145	1.144	153.71	77.2	1.09	
34	13C-OCDF	5.63e5	0.82	NO	0.746	10.045	41.946	41.92	1.221	1.220	263.65	66.2	0.467	
35	37Cl-2,3,7,8-TCDD	3.32e5			1.04	10.045	26.553	26.51	1.028	1.026	85.476	107	0.0635	
36	13C-1,2,3,4-TCDD	7.45e5	0.78	NO	1.00	10.045	25.890	25.84	1.000	1.000	199.11	100	0.247	
37	13C-1,2,3,4-TCDF	1.12e6	0.78	NO	1.00	10.045	24.360	24.16	1.000	1.000	199.11	100	0.317	
38	13C-1,2,3,4,6,9-HxCDF	5.70e5	0.51	NO	1.00	10.045	34.420	34.36	1.000	1.000	199.11	100	0.646	
39	Total Tetra-Dioxins				0.888	10.045	24.620		0.000				0.0312	
40	Total Penta-Dioxins				0.908	10.045	29.960		0.000				0.0479	
41	Total Hexa-Dioxins				0.892	10.045	33.635		0.000		0.27762		0.0862	0.278
42	Total Hepta-Dioxins				0.864	10.045	37.640		0.000		1.1388		0.150	1.14
43	Total Tetra-Furans				0.751	10.045	23.610		0.000				0.0120	
44	1st Func. Penta-Furans				0.893	10.045	27.580		0.000				0.00785	
45	Total Penta-Furans				0.893	10.045	29.275		0.000				0.0117	
46	Total Hexa-Furans				0.934	10.045	33.555		0.000		0.055652		0.0189	0.0557
47	Total Hepta-Furans				0.873	10.045	37.835		0.000				0.0316	

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-12B.qld

Last Altered: Tuesday, July 07, 2020 2:41:38 PM Pacific Daylight Time  
 Printed: Tuesday, July 07, 2020 2:44:37 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45  
 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1\_12, Date: 04-Jun-2020, Time: 16:45:53, ID: 2000964-08 PDI-148SC-A-06-07-200427 12.17, Description: PDI-148SC-A-06-07-200427

**Tetra-Dioxins**

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

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.31	5.104e3	5.314e3	2.872e2	2.500e2	1.15	NO	5.372e2	0.27762	0.27762	0.0862

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.78	6.728e3	6.586e3	4.922e2	4.860e2	1.01	NO	9.782e2	0.73082	0.73082	0.150
2	1,2,3,4,6,7,8-HpCDD	38.78	5.646e3	4.097e3	2.739e2	2.722e2	1.01	NO	5.461e2	0.40798	0.40798	0.150

**Tetra-Furans**

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

**Penta-Furans function 1**

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

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-12B.qld

Last Altered: Tuesday, July 07, 2020 2:41:38 PM Pacific Daylight Time

Printed: Tuesday, July 07, 2020 2:44:37 PM Pacific Daylight Time

Name: 200604R1\_12, Date: 04-Jun-2020, Time: 16:45:53, ID: 2000964-08 PDI-148SC-A-06-07-200427 12.17, Description: PDI-148SC-A-06-07-200427

**Penta-Furans**

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

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8,9-HxCDF	35.60	1.258e3	9.390e2	5.662e1	4.733e1	1.20	NO	1.040e2	0.055652	0.055652	0.0280

**Hepta-Furans**

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

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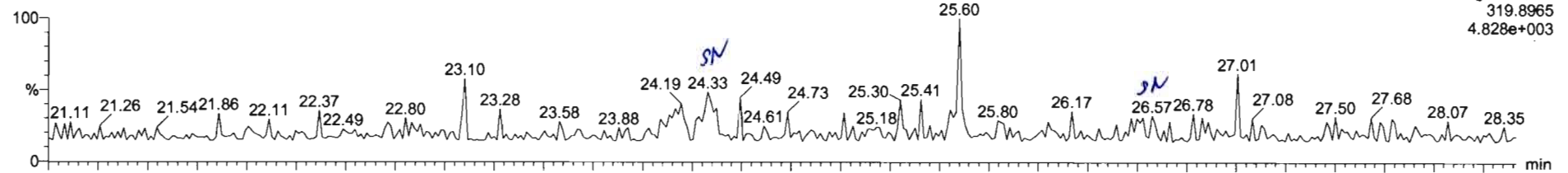
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time

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

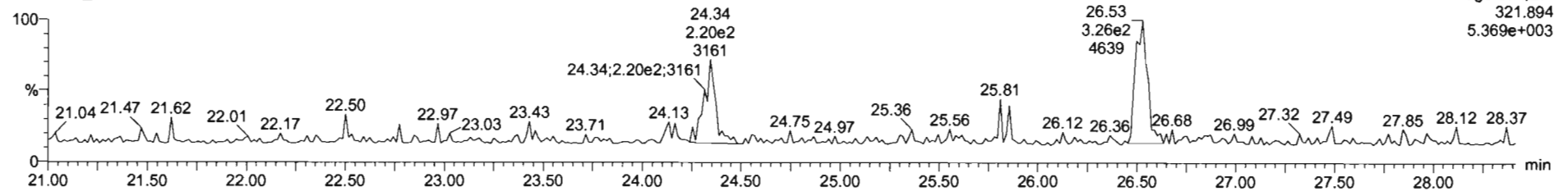
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**2,3,7,8-TCDD**

200604R1\_12

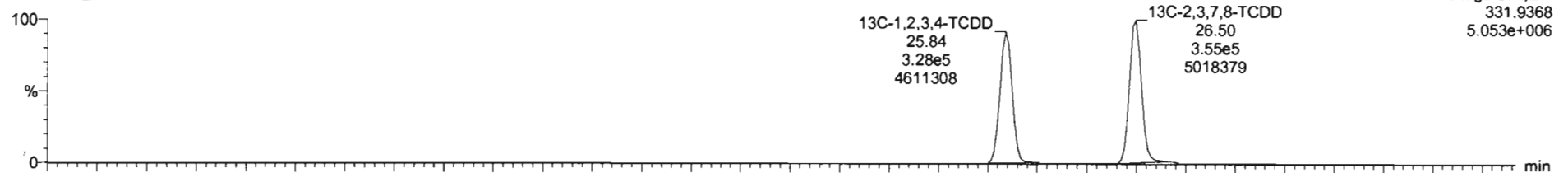


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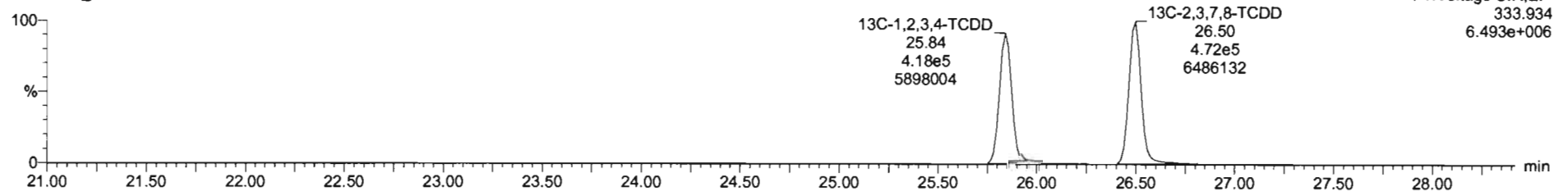


**13C-2,3,7,8-TCDD**

200604R1\_12

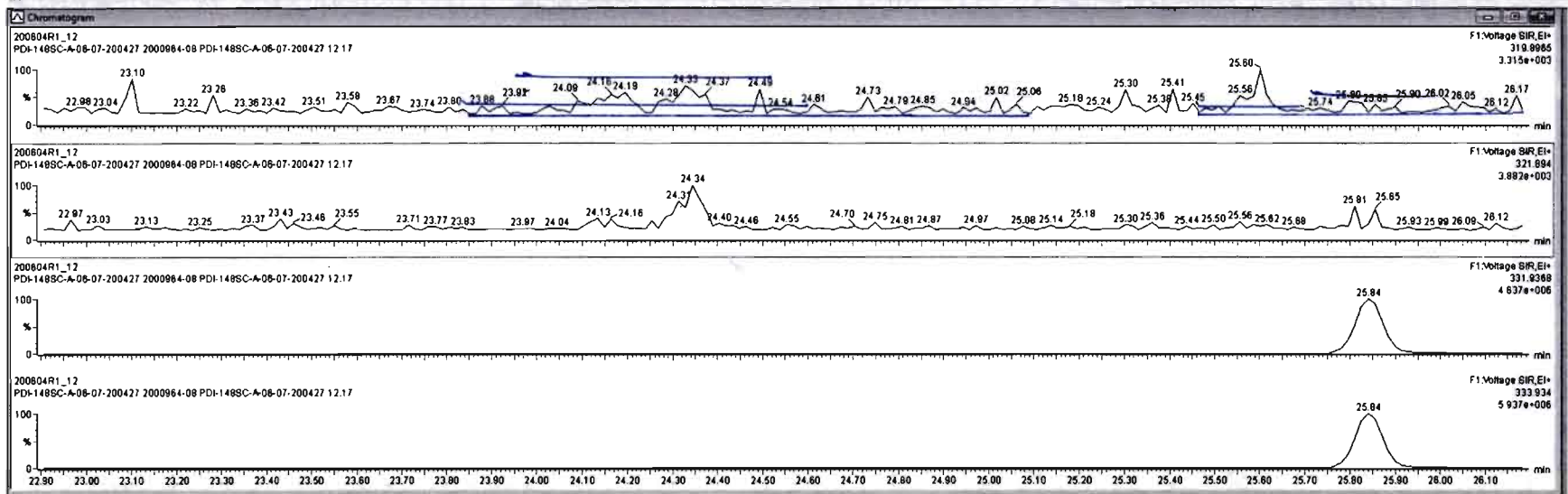


200604R1\_12



#	Name	Resp	RA	n/y	RRF	wtAvail	RT	RRT	Conc	%Rec	DL	BMPC
38	Total Tetra-Chlorine				0.8903	10.045					0.0292	
40	Total Penta-Chlorine				0.8001	10.045					0.0478	
41	Total Hexa-Chlorine				0.8923	10.045			0.201		0.0862	0.201
42	Total Hepta-Chlorine				0.8638	10.045			0.419		0.150	0.828
43	Total Tetra-Furane				0.7510	10.045					0.0120	

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



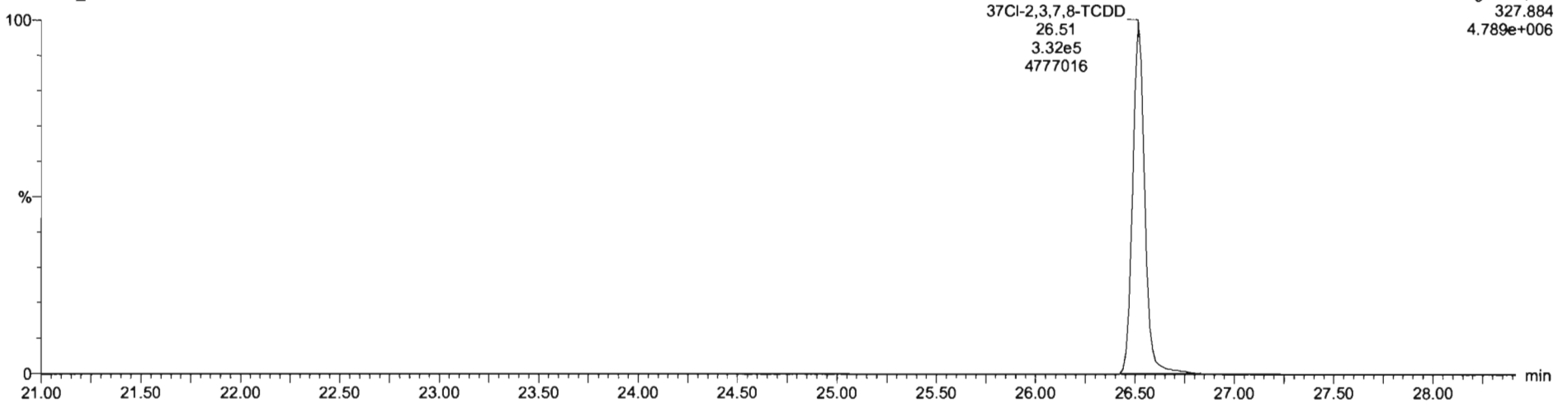
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Name: 200604R1\_12, Date: 04-Jun-2020, Time: 16:45:53, ID: 2000964-08 PDI-148SC-A-06-07-200427 12.17, Description: PDI-148SC-A-06-07-200427

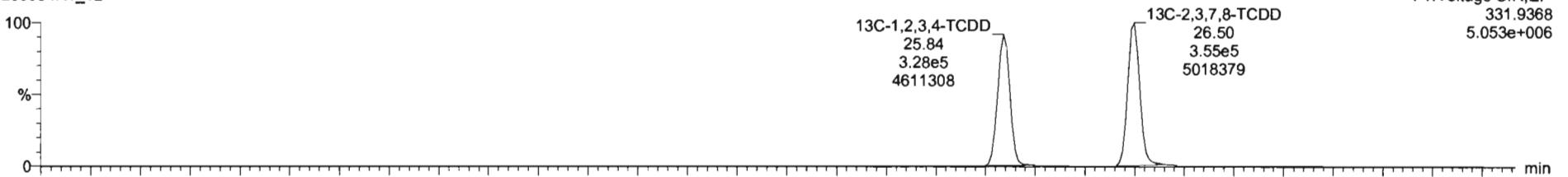
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200604R1\_12

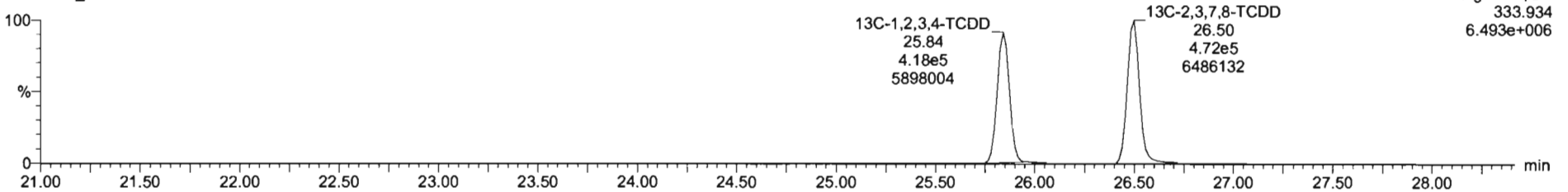


**13C-1,2,3,4-TCDD**

200604R1\_12



200604R1\_12





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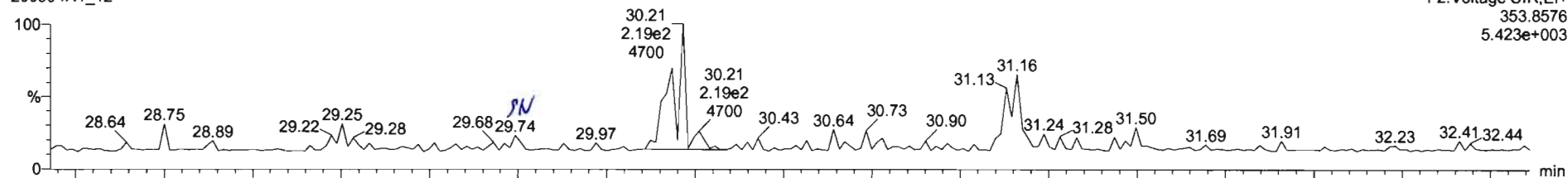
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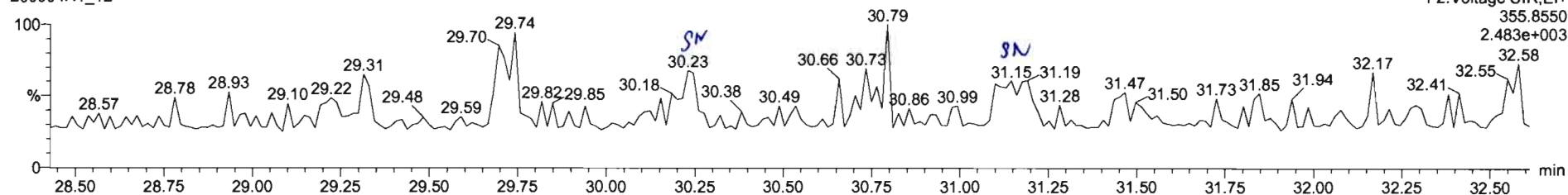
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1,2,3,7,8-PeCDD

200604R1\_12

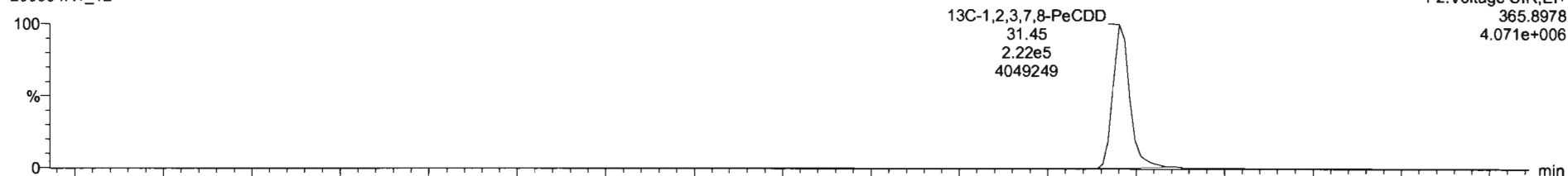


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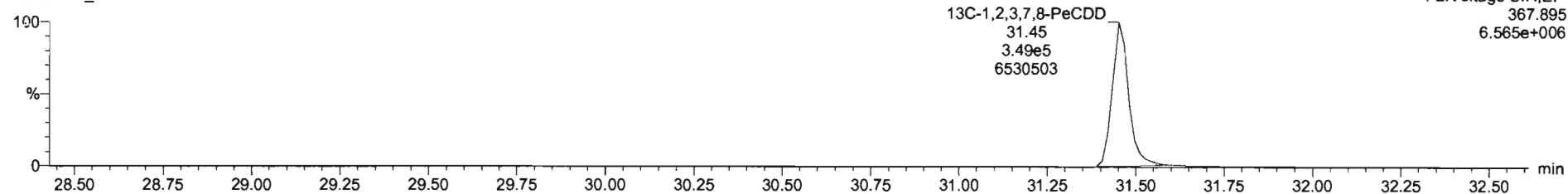


13C-1,2,3,7,8-PeCDD

200604R1\_12

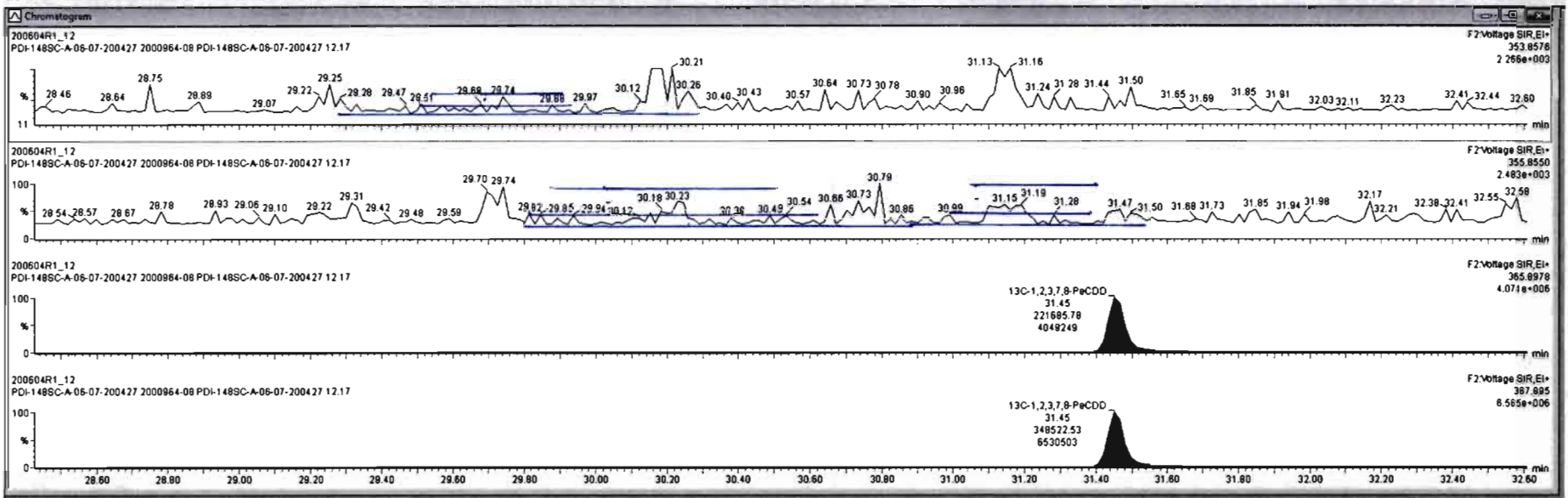


200604R1\_12



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rsp	DL	EMPC
39 Total Tetra-Dioxins				0.8683	10.045					0.0312	
40 Total Penta-Dioxins				0.8091	10.045					0.0479	
41 Total Hexa-Dioxins				0.8923	10.045			0.261		0.0662	0.261
42 Total Hepta-Dioxins				0.8639	10.045			0.419		0.150	0.928
43 Total Tetra-Furans				0.7510	10.045					0.0120	

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



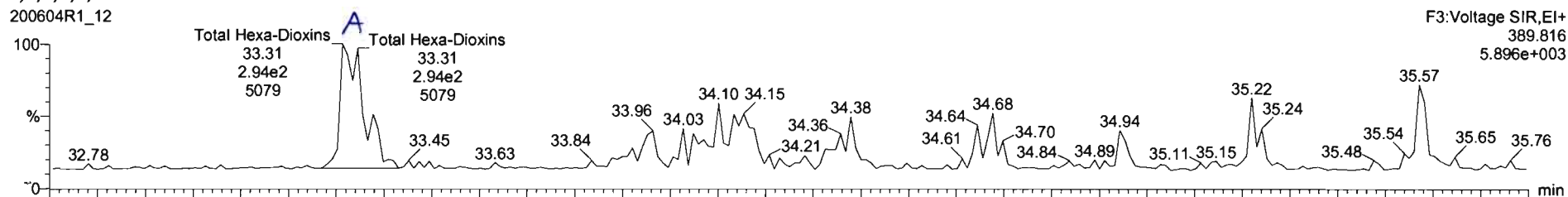
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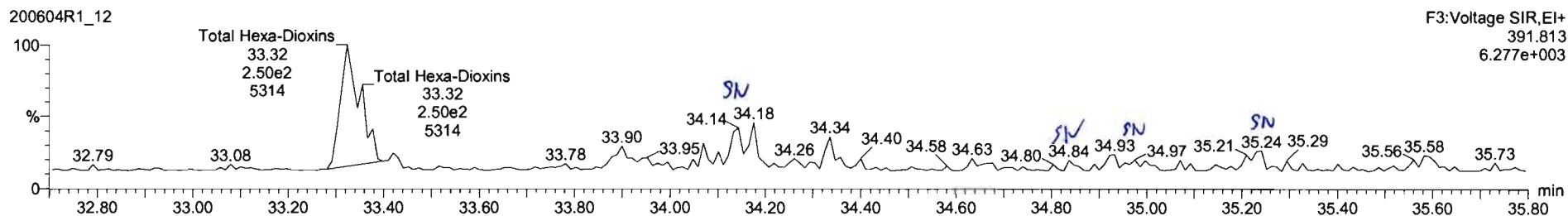
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1,2,3,4,7,8-HxCDD

200604R1\_12

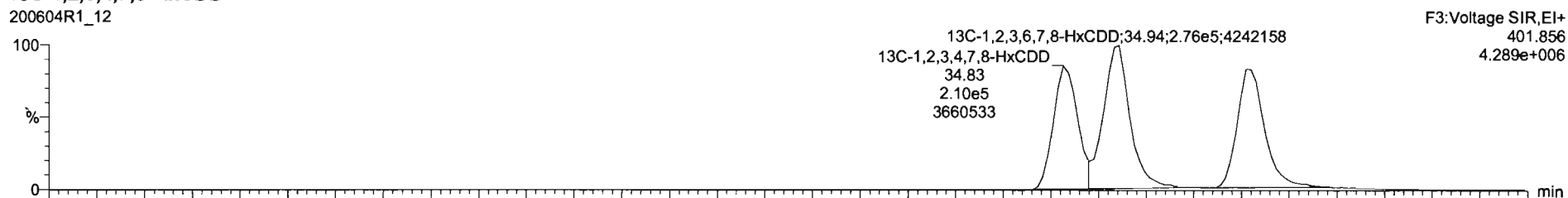


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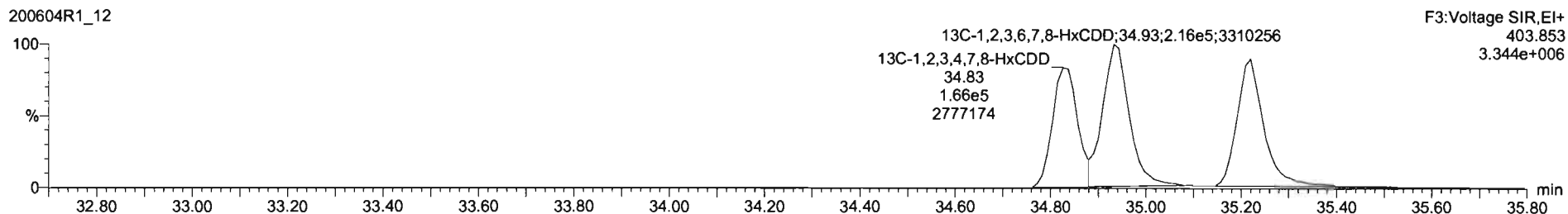


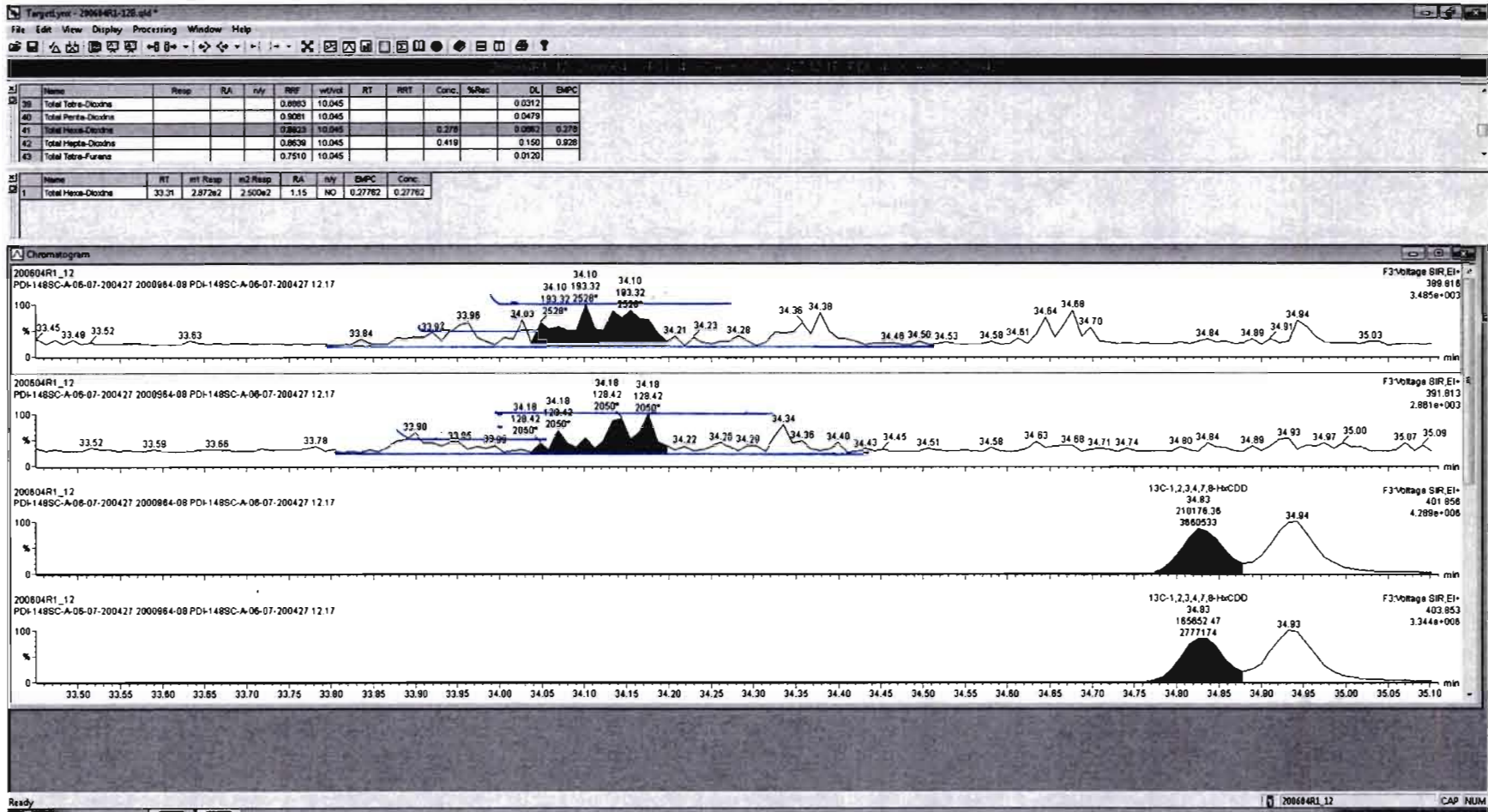
13C-1,2,3,4,7,8-HxCDD

200604R1\_12



200604R1\_12

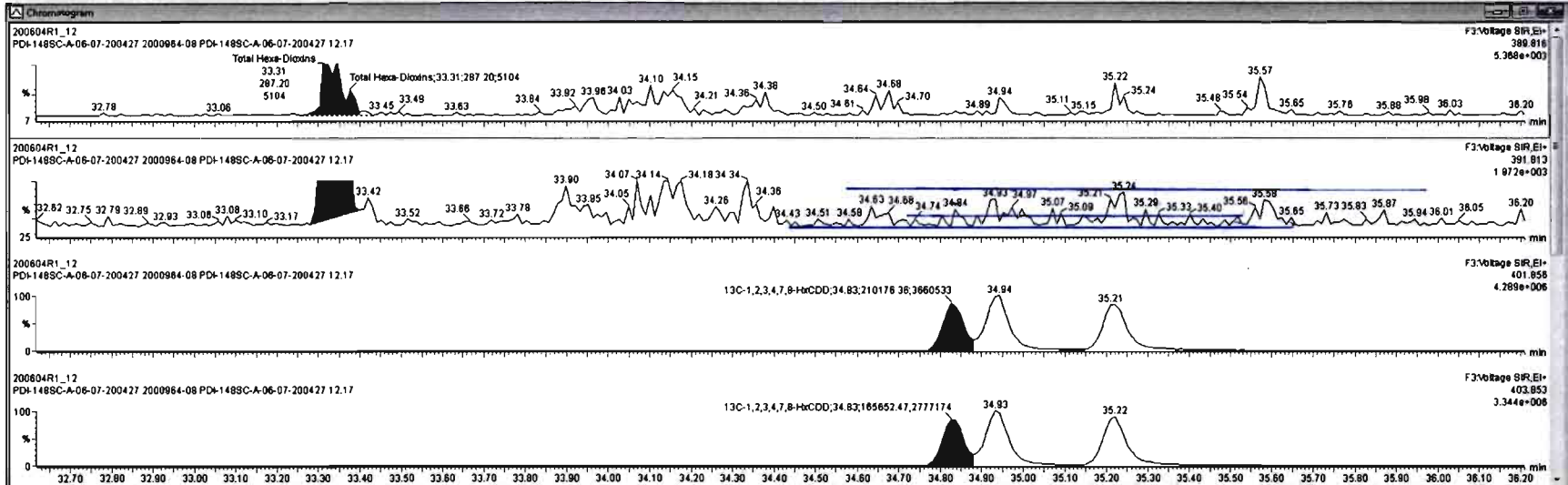






#	Name	Resp	RA	h/y	RFI	h/d	RT	RFI	Conc.	%Rec	DL	EMPC
38	Total Tetra-Dioxins				0.8983	10.045					0.0312	
40	Total Penta-Dioxins				0.9081	10.045					0.0479	
41	Total Hexa-Dioxins				0.9123	10.045			0.278		0.0852	0.278
42	Total Hepta-Dioxins				0.8636	10.045			0.419		0.150	0.920
43	Total Tetra-Furans				0.7510	10.045					0.0120	

#	Name	RT	ml Resp	nl Resp	RA	h/y	EMPC	Conc.
1	Total Hexa-Dioxins	33.31	2.872e2	2.500e2	1.15	NO	0.27762	0.27762







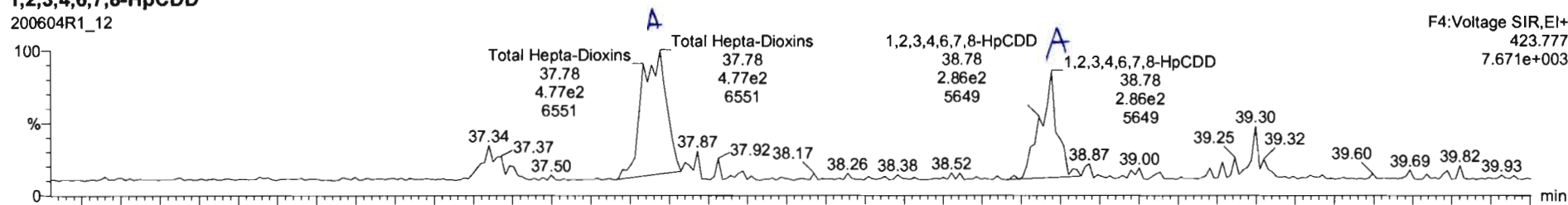
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Name: 200604R1\_12, Date: 04-Jun-2020, Time: 16:45:53, ID: 2000964-08 PDI-148SC-A-06-07-200427 12.17, Description: PDI-148SC-A-06-07-200427

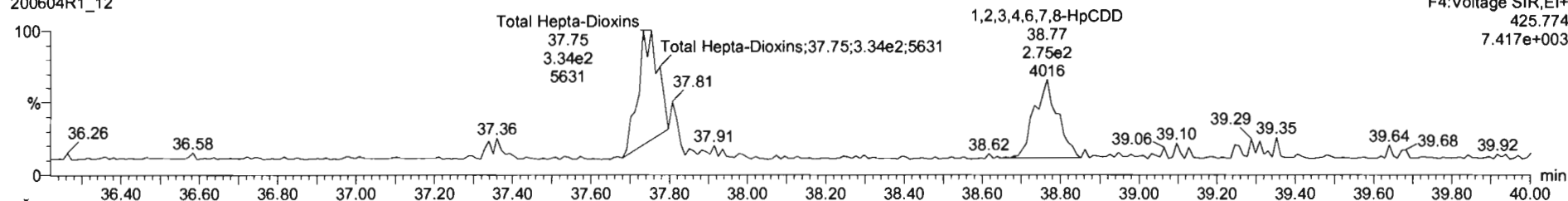
**1,2,3,4,6,7,8-HpCDD**

200604R1\_12



F4:Voltage SIR,EI+  
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7.671e+003

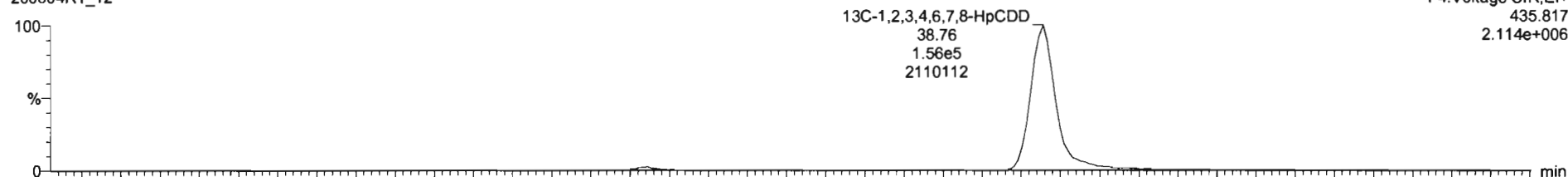
200604R1\_12



F4:Voltage SIR,EI+  
425.774  
7.417e+003

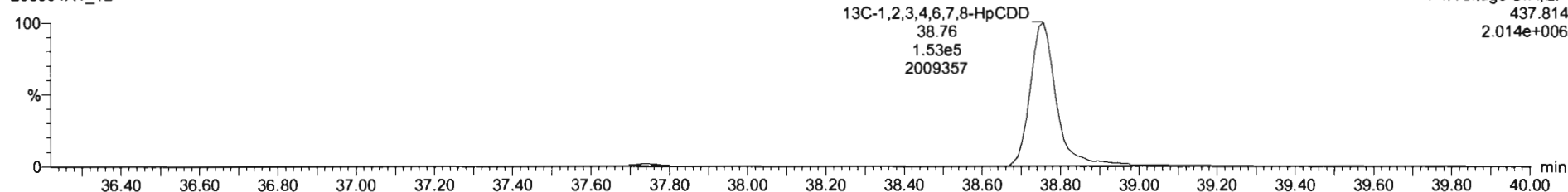
**13C-1,2,3,4,6,7,8-HpCDD**

200604R1\_12



F4:Voltage SIR,EI+  
435.817  
2.114e+006

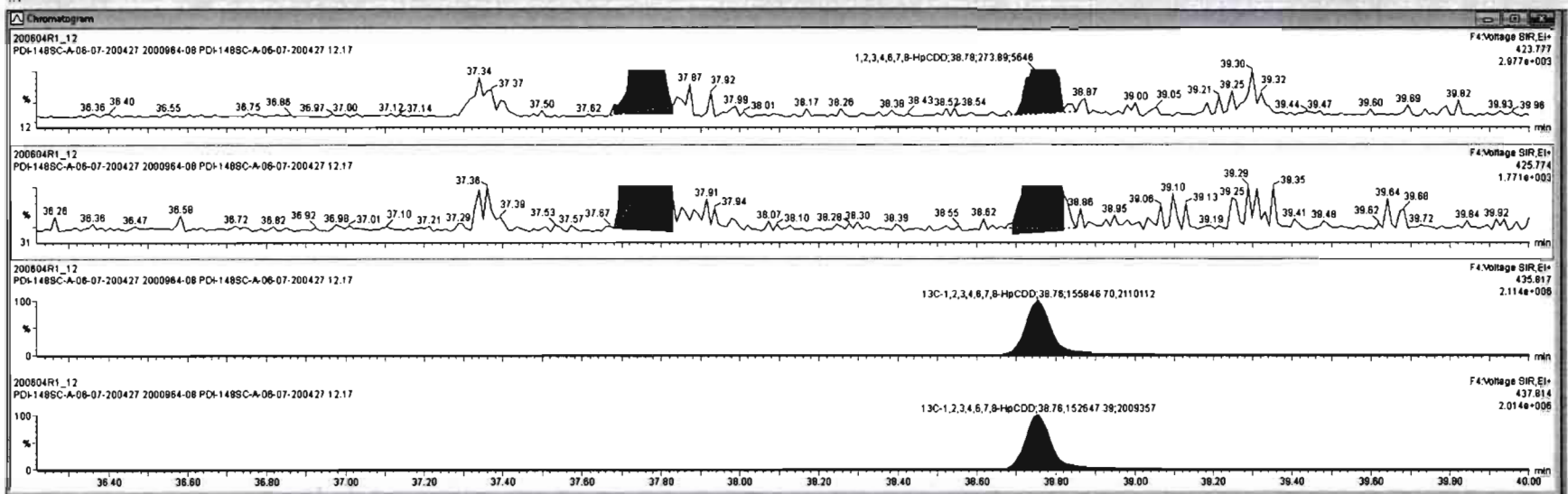
200604R1\_12



F4:Voltage SIR,EI+  
437.814  
2.014e+006

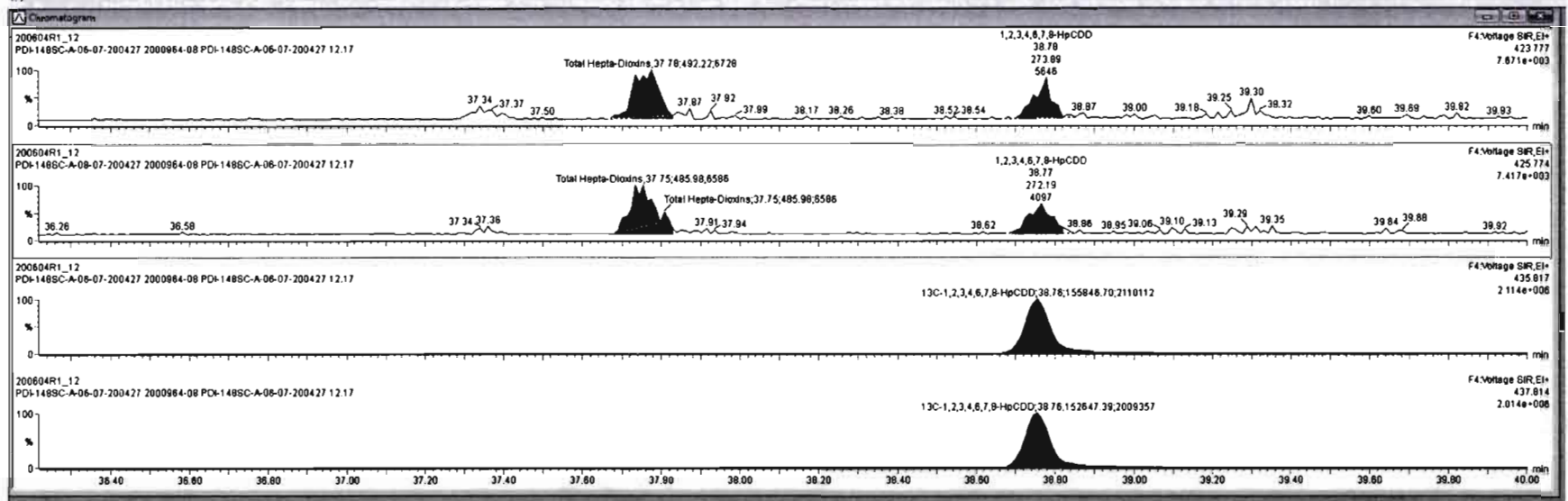
Name	RT	RA	RV	RF	WtAval	RT	RFIT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.8863	10.045					0.0212	
40 Total Penta-Dioxins				0.9081	10.045					0.0478	
41 Total Hexa-Dioxins				0.8923	10.045			0.278		0.0862	0.278
42 Total Hepta-Dioxins				0.8638	10.045			1.14		0.190	1.14
43 Total Tetra-Furans				0.7510	10.045					0.0120	

Name	RT	m1 Resp	m2 Resp	RA	RV	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDD	38.78	2.739e2	2.722e2	1.01	NO	0.40798	0.40798
2 Total Hepta-Dioxins	37.78	4.922e2	4.860e2	1.01	NO	0.73082	0.73082



#	Name	Resp	RA	n/y	RPF	wtArd	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8063	10.045					0.0312	
40	Total Penta-Dioxins				0.9081	10.045					0.0478	
41	Total Hexa-Dioxins				0.8923	10.045			0.278		0.0862	0.278
42	Total Hepta-Dioxins				0.8638	10.045			1.14		0.150	1.14
43	Total Tetra-Furans				0.7510	10.045					0.0120	

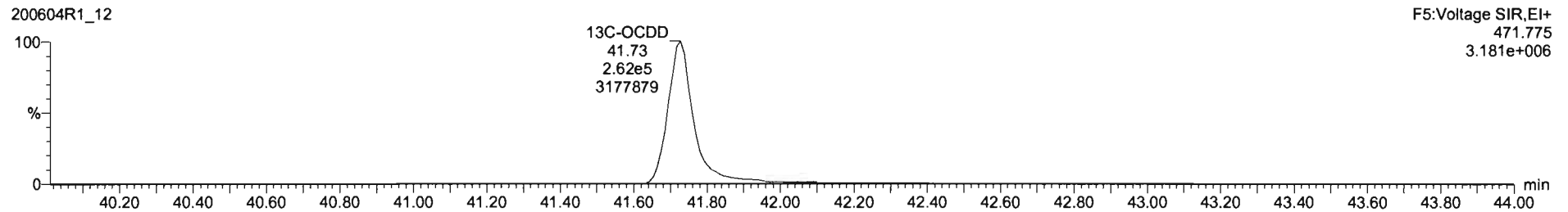
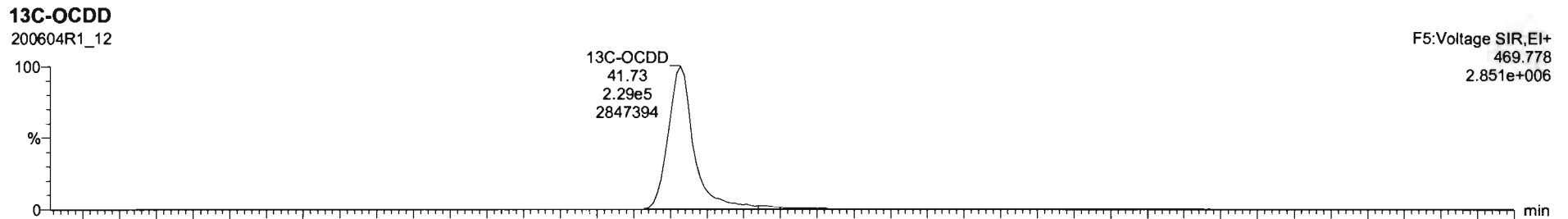
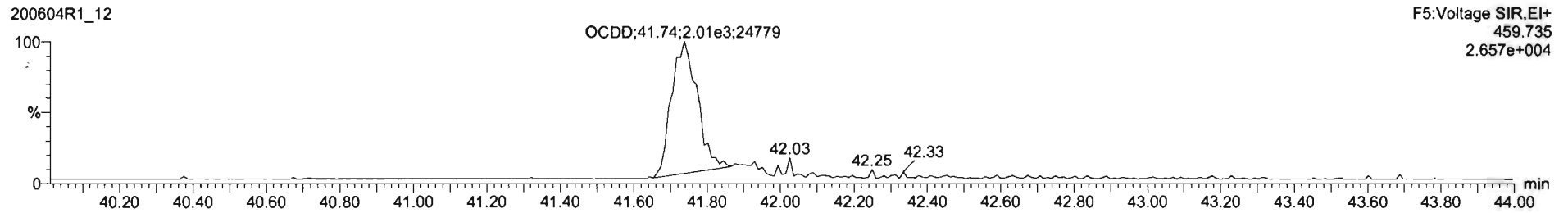
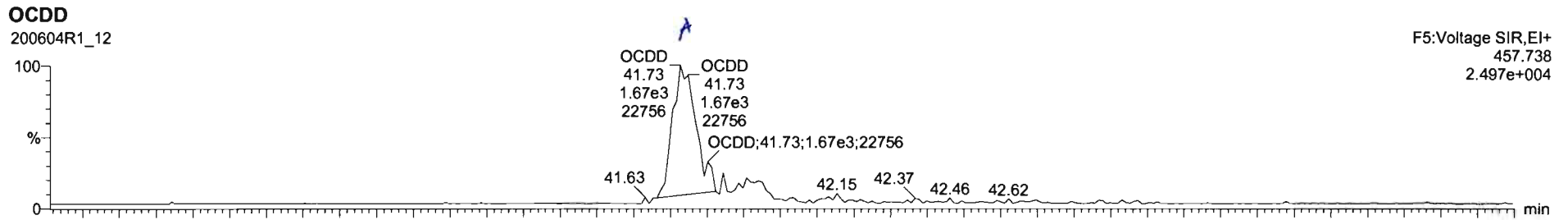
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDD	38.78	2.739e2	2.722e2	1.01	NQ	0.40798	0.40798
2	Total Hepta-Dioxins	37.78	4.822e2	4.860e2	1.01	NQ	0.73082	0.73082

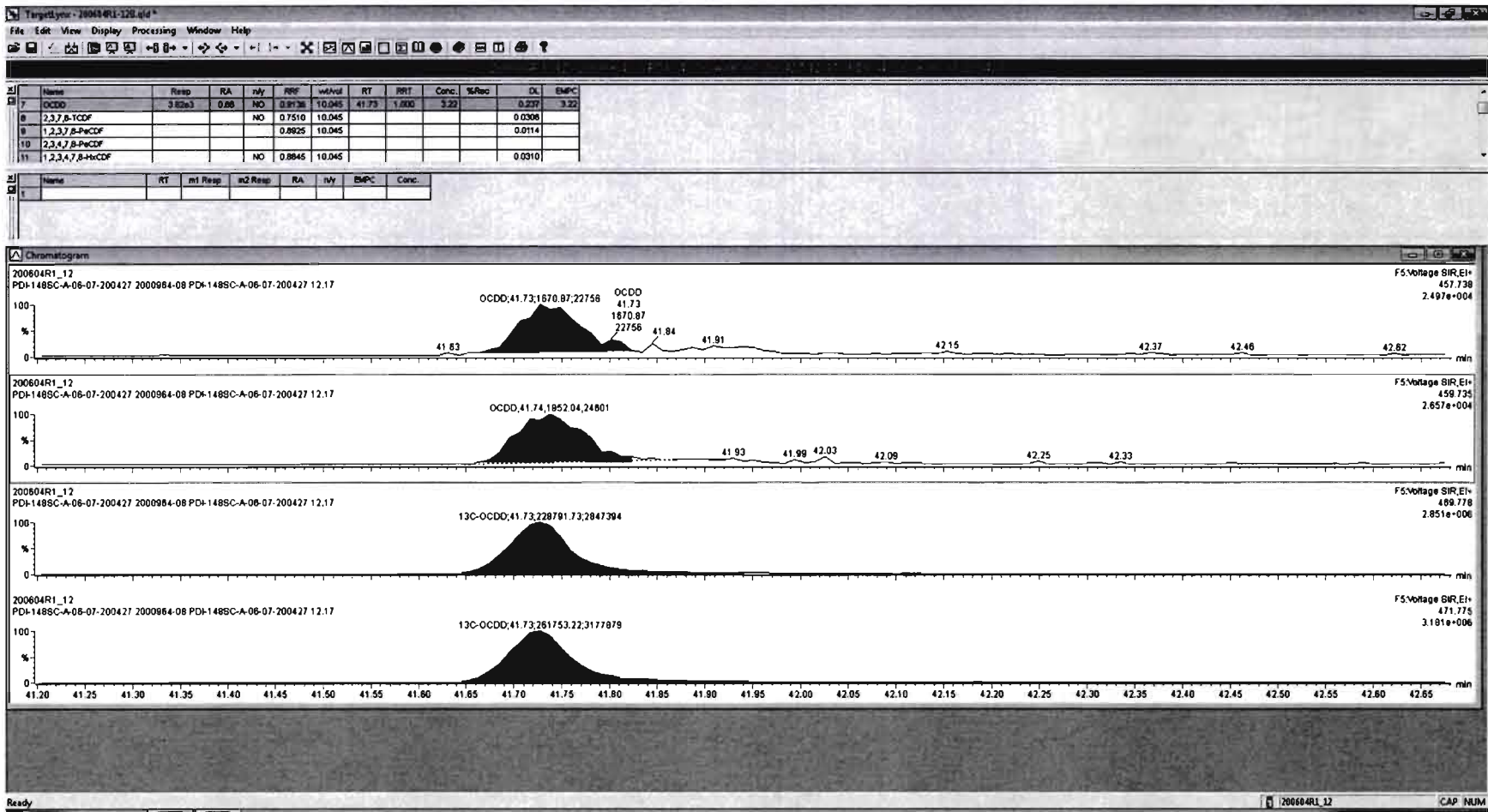


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Name: 200604R1\_12, Date: 04-Jun-2020, Time: 16:45:53, ID: 2000964-08 PDI-148SC-A-06-07-200427 12.17, Description: PDI-148SC-A-06-07-200427







Dataset: Untitled

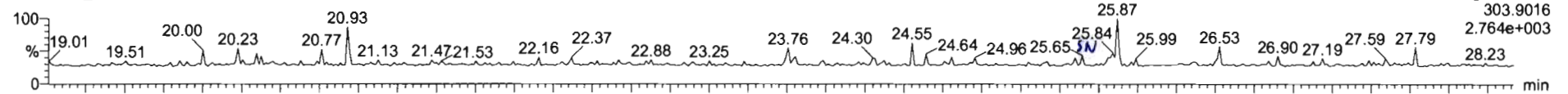
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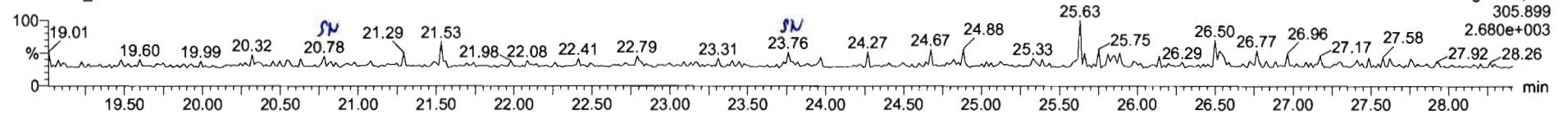
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**2,3,7,8-TCDF**

200604R1\_12

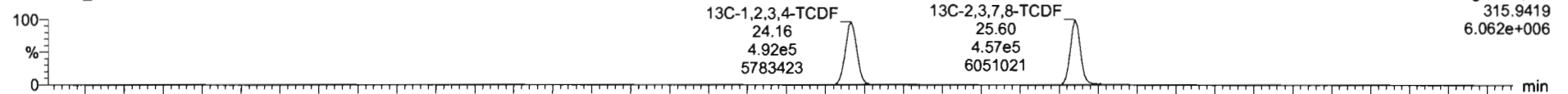


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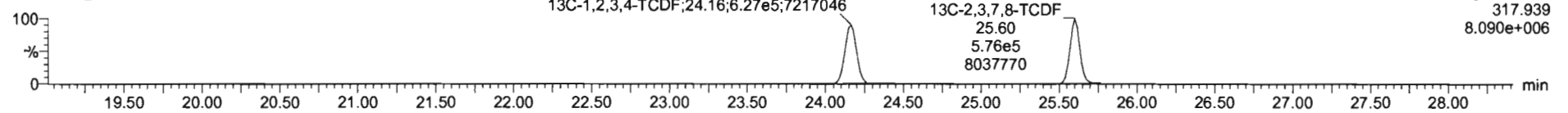


**13C-2,3,7,8-TCDF**

200604R1\_12

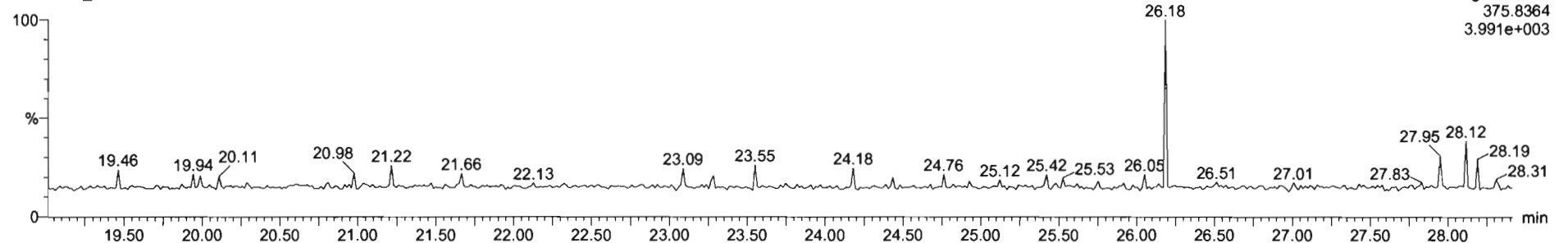


200604R1\_12



**DPE1**

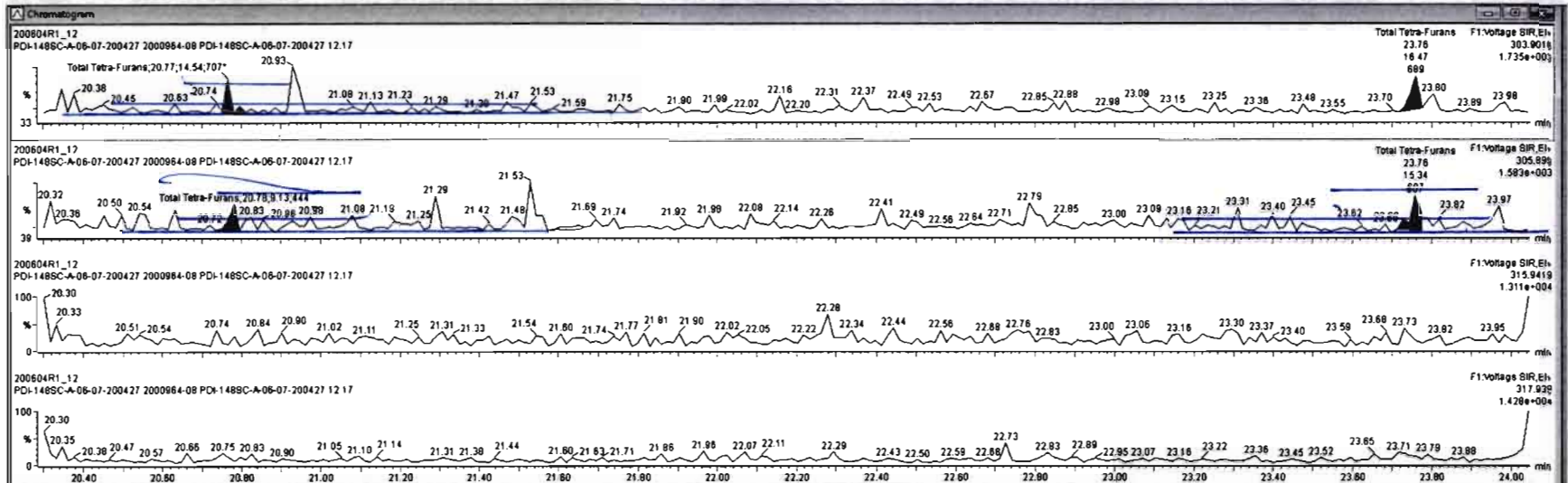
200604R1\_12

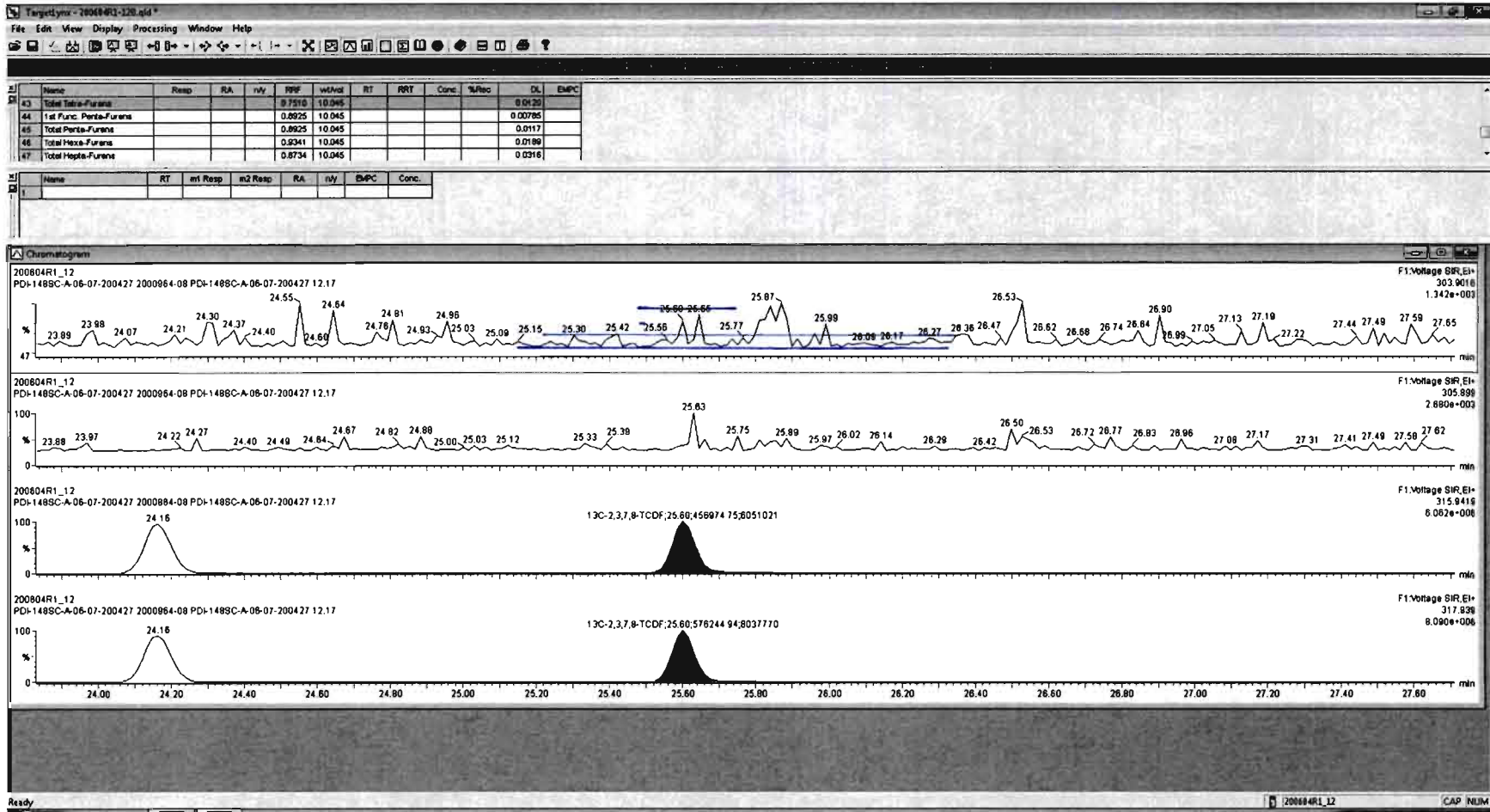




SI	Name	Resp	RA	rvly	RFW	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7510	10.045			0.000		0.0120	0.0111
44	1st Func. Penta-Furans				0.8925	10.045					0.00785	
45	Total Penta-Furans				0.8925	10.045					0.0117	
46	Total Hexa-Furans				0.9341	10.045					0.0180	
47	Total Hepta-Furans				0.8734	10.045					0.0316	

SI	Name	RT	m1 Resp	m2 Resp	RA	rvly	EMPC	Conc.
1	Total Tetra-Furans	20.77	1.063e1	9.130e0	1.18	YES	0.00414	0.00000
2	Total Tetra-Furans	23.76	1.647e1	1.534e1	1.07	YES	0.00686	0.00000





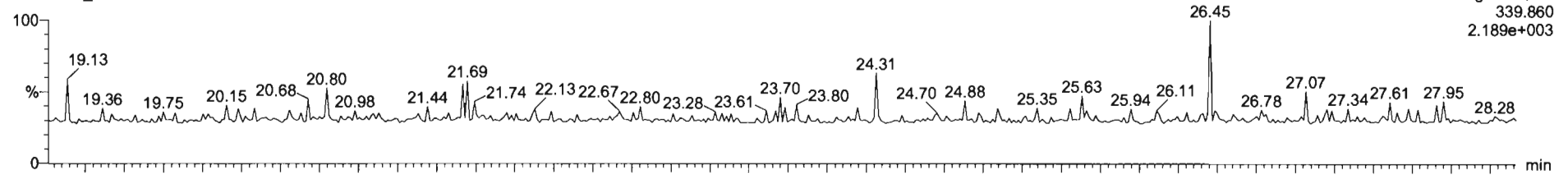
Dataset: Untitled

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

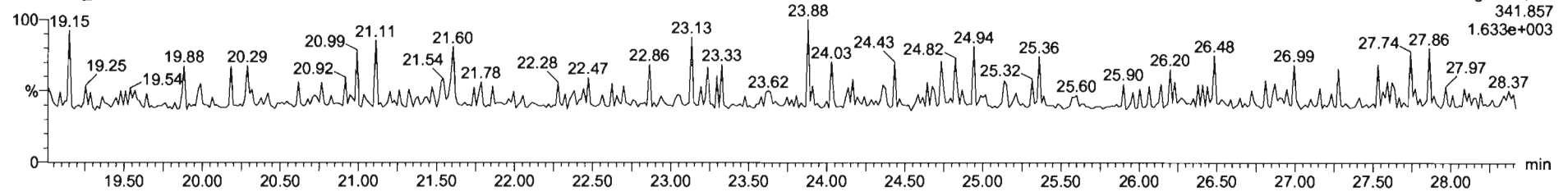
Name: 200604R1\_12, Date: 04-Jun-2020, Time: 16:45:53, ID: 2000964-08 PDI-148SC-A-06-07-200427 12.17, Description: PDI-148SC-A-06-07-200427

1st Func. Penta-Furans

200604R1\_12

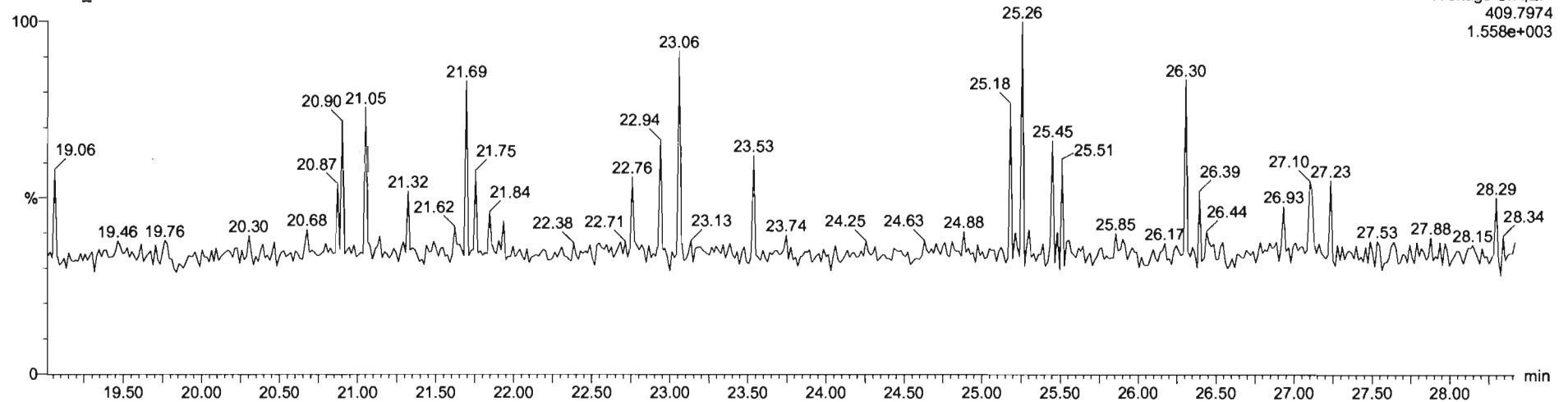


200604R1\_12



DPE6

200604R1\_12

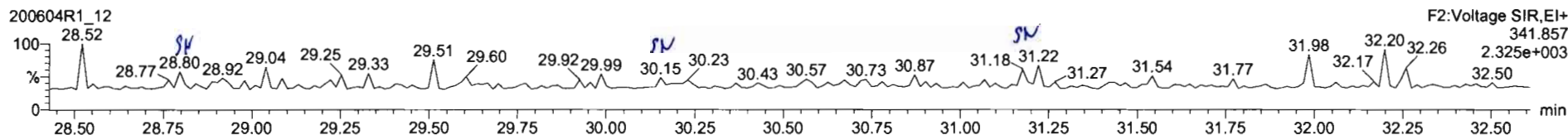
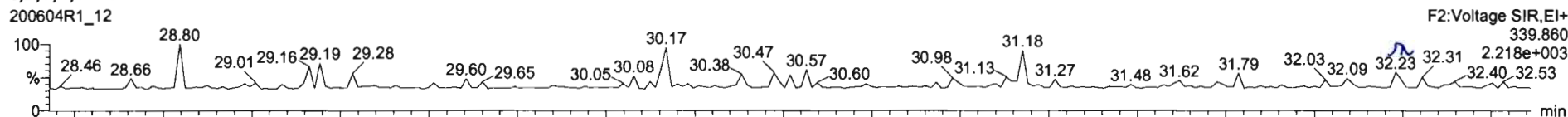


Dataset: Untitled

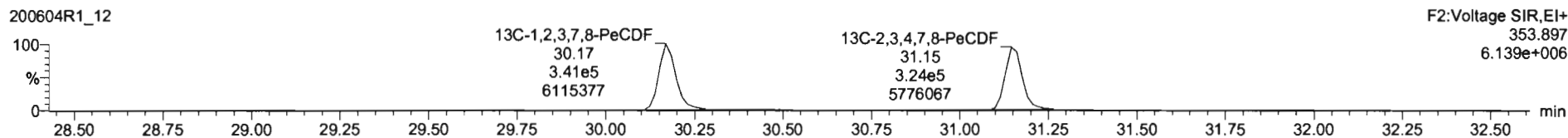
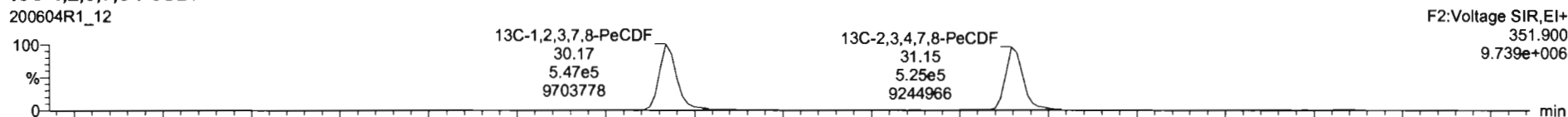
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_12, Date: 04-Jun-2020, Time: 16:45:53, ID: 2000964-08 PDI-148SC-A-06-07-200427 12.17, Description: PDI-148SC-A-06-07-200427

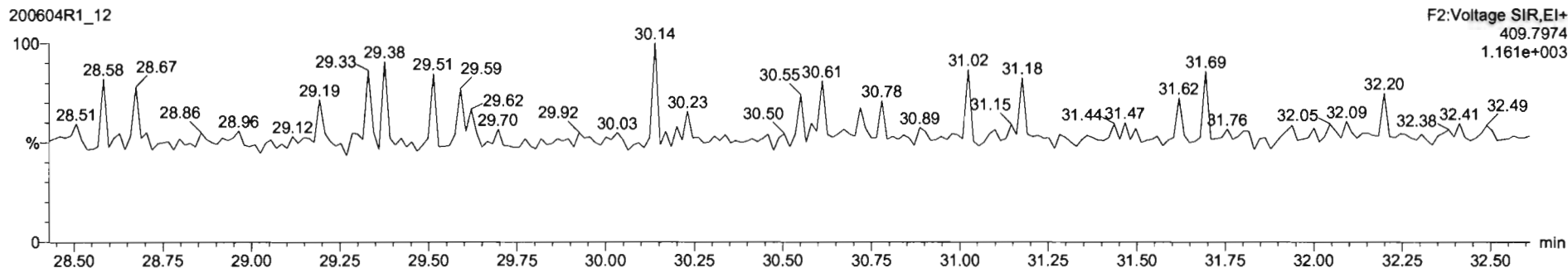
**1,2,3,7,8-PeCDF**

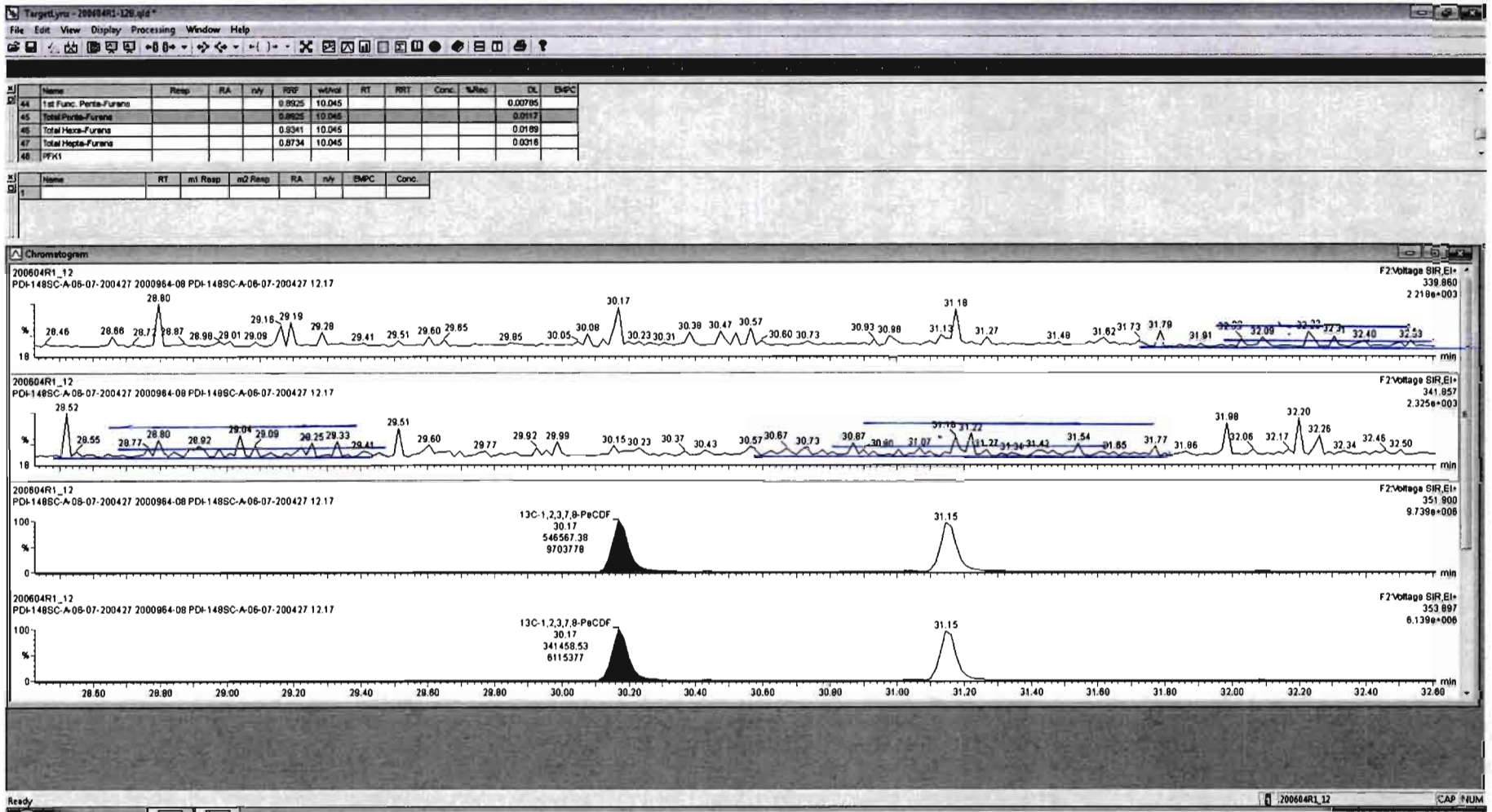


**13C-1,2,3,7,8-PeCDF**



**DPE2**





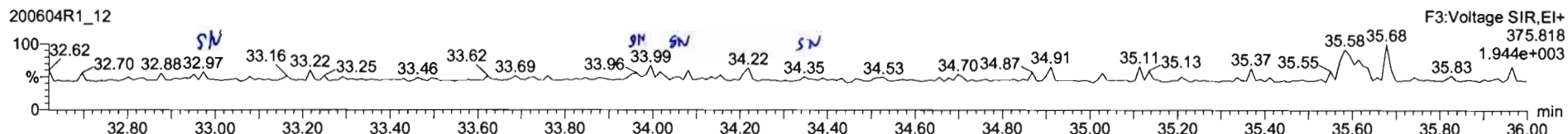
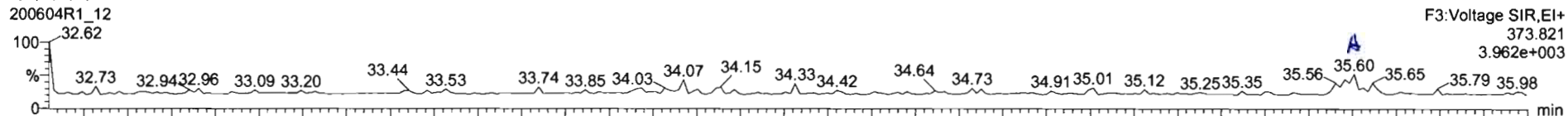


Dataset: Untitled

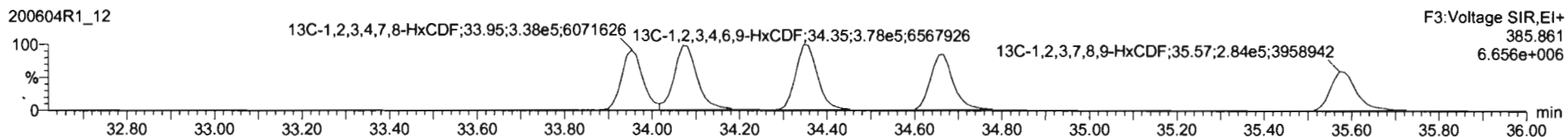
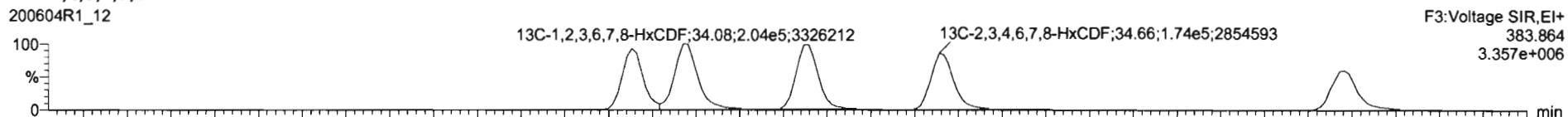
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_12, Date: 04-Jun-2020, Time: 16:45:53, ID: 2000964-08 PDI-148SC-A-06-07-200427 12.17, Description: PDI-148SC-A-06-07-200427

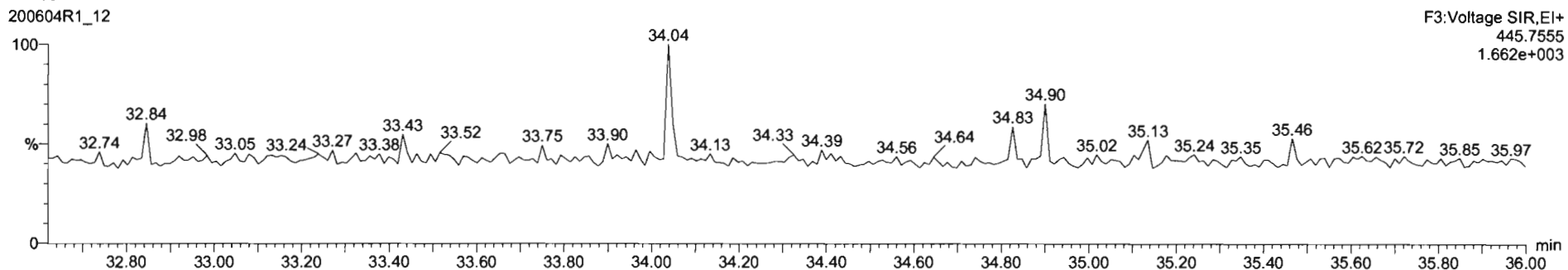
1,2,3,4,7,8-HxCDF



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



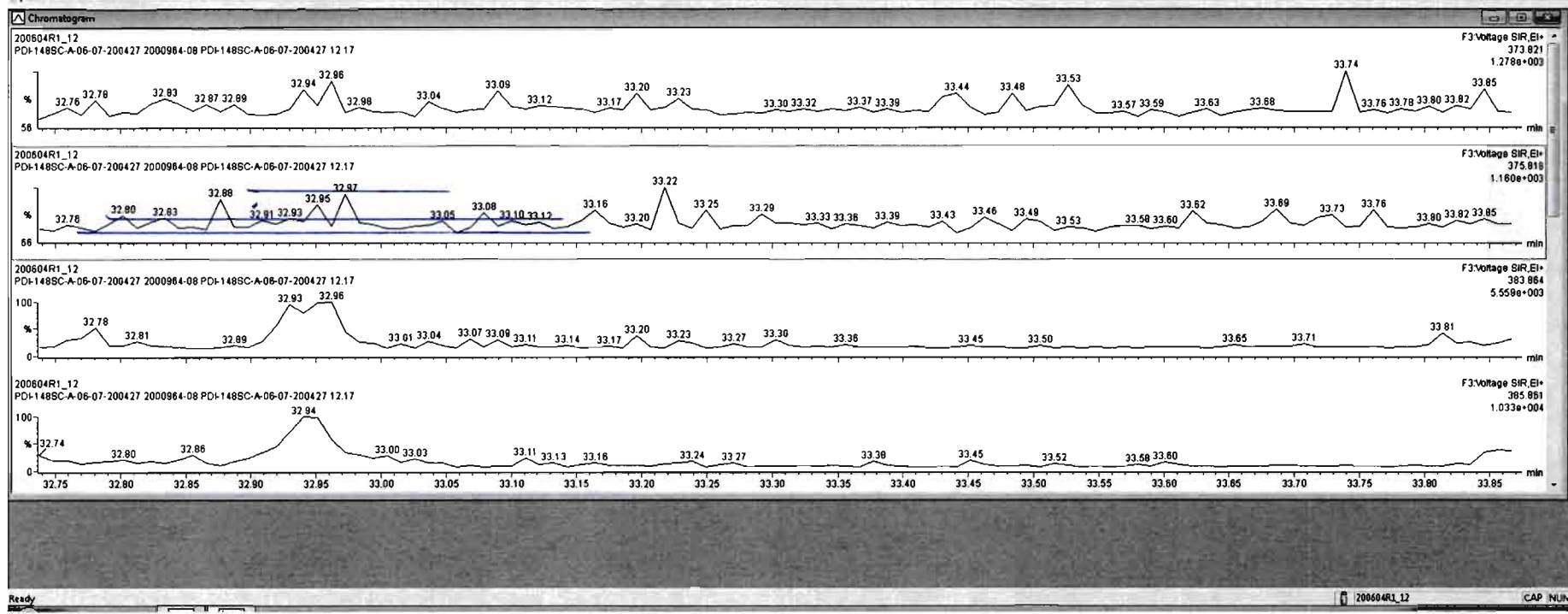
DPE3





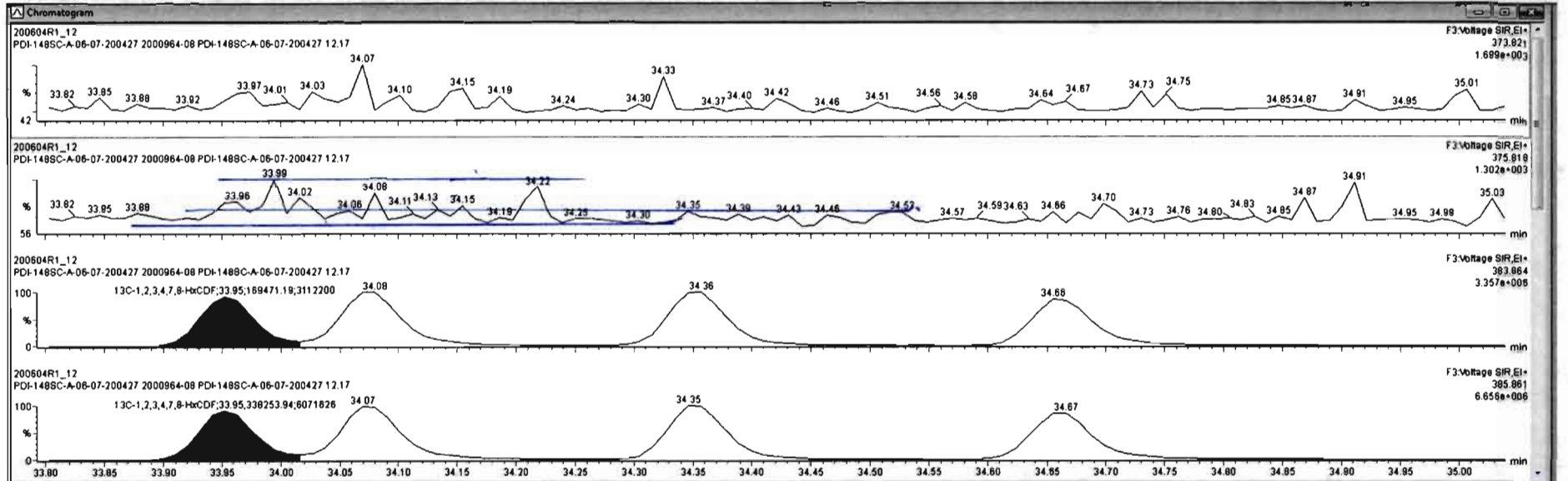
#	Name	Resp	RA	n/y	RFR	wt/ret	RT	RRT	Conc.	%Rec	DL	EMPC
36	13C-1,2,3,4-TCDD	7.45e5	0.78	NO	1.0000	10.045	25.84	1.000	199	100	0.247	
37	13C-1,2,3,4-TCDF	1.12e6	0.78	NO	1.0000	10.045	24.16	1.000	199	100	0.317	
38	13C-1,2,3,4,6,9-HxCDF	5.70e5	0.51	NO	1.0000	10.045	34.36	1.000	199	100	0.648	
39	Total Tetra-Chlorine				0.8883	10.045					0.0312	
40	Total Penta-Dioxins				0.9081	10.045					0.0479	

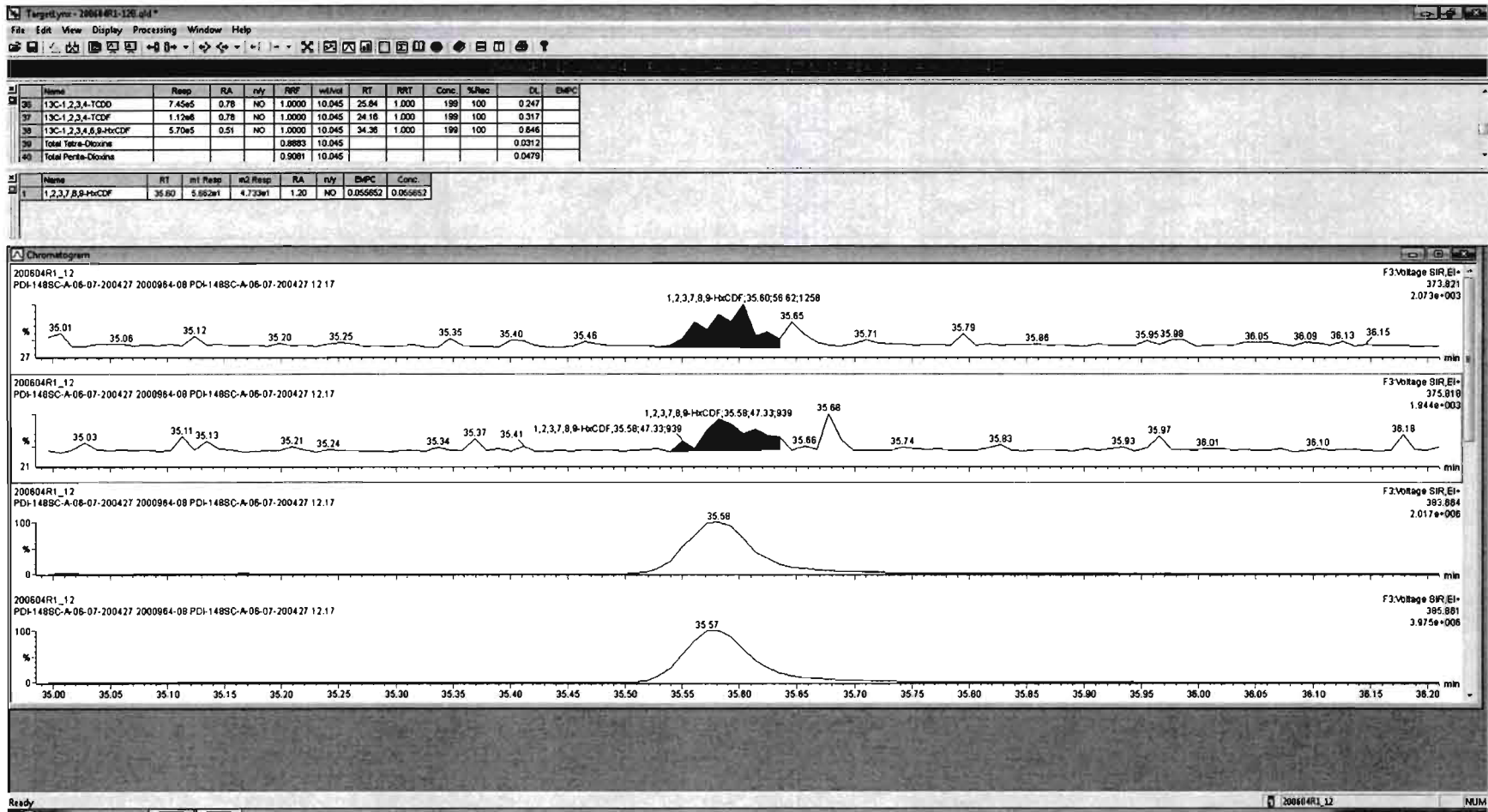
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1								



Name	Resp	RA	n/y	RRF	Int/Std	RT	RRT	Conc.	%Rec	DL	EMPC
36	13C-1,2,3,4-TCDD	7.49e5	0.78	NO	1.0000	10.045	25.84	1.000	199	100	0.247
37	13C-1,2,3,4-TCDF	1.12e6	0.78	NO	1.0000	10.045	24.16	1.000	199	100	0.317
38	13C-1,2,3,4,6,8-HxCDF	5.70e5	0.51	NO	1.0000	10.045	34.36	1.000	199	100	0.646
39	Total Tetra-Dioxins				0.8883	10.045					0.0312
40	Total Penta-Dioxins				0.9081	10.045					0.0479

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





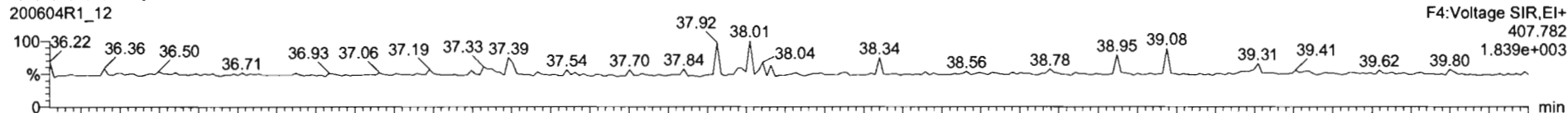
Dataset: Untitled

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

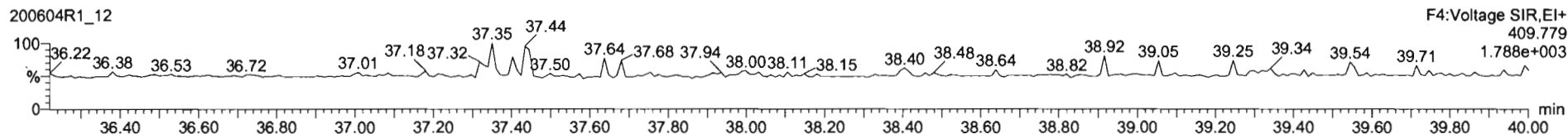
Name: 200604R1\_12, Date: 04-Jun-2020, Time: 16:45:53, ID: 2000964-08 PDI-148SC-A-06-07-200427 12.17, Description: PDI-148SC-A-06-07-200427

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

200604R1\_12

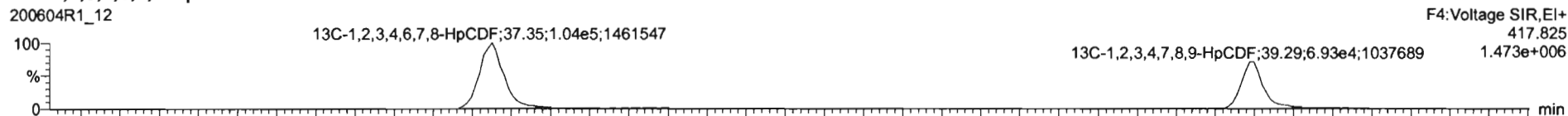


200604R1\_12

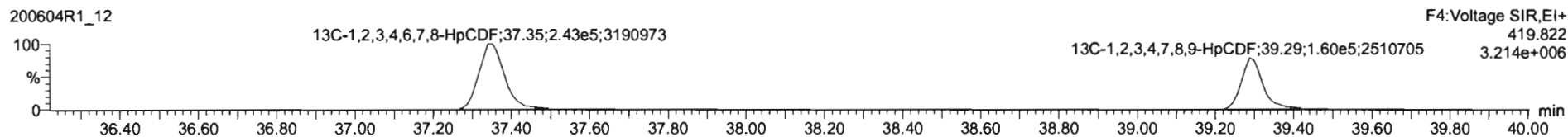


**13C-1,2,3,4,6,7,8-HpCDF**

200604R1\_12

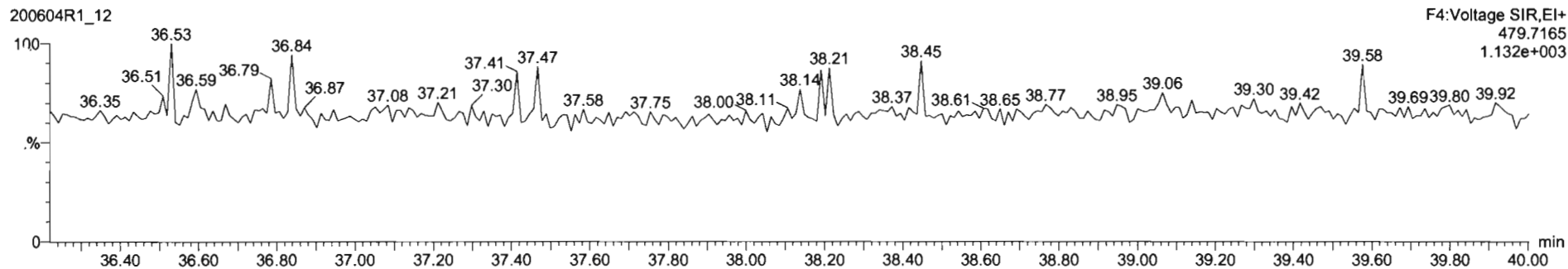


200604R1\_12

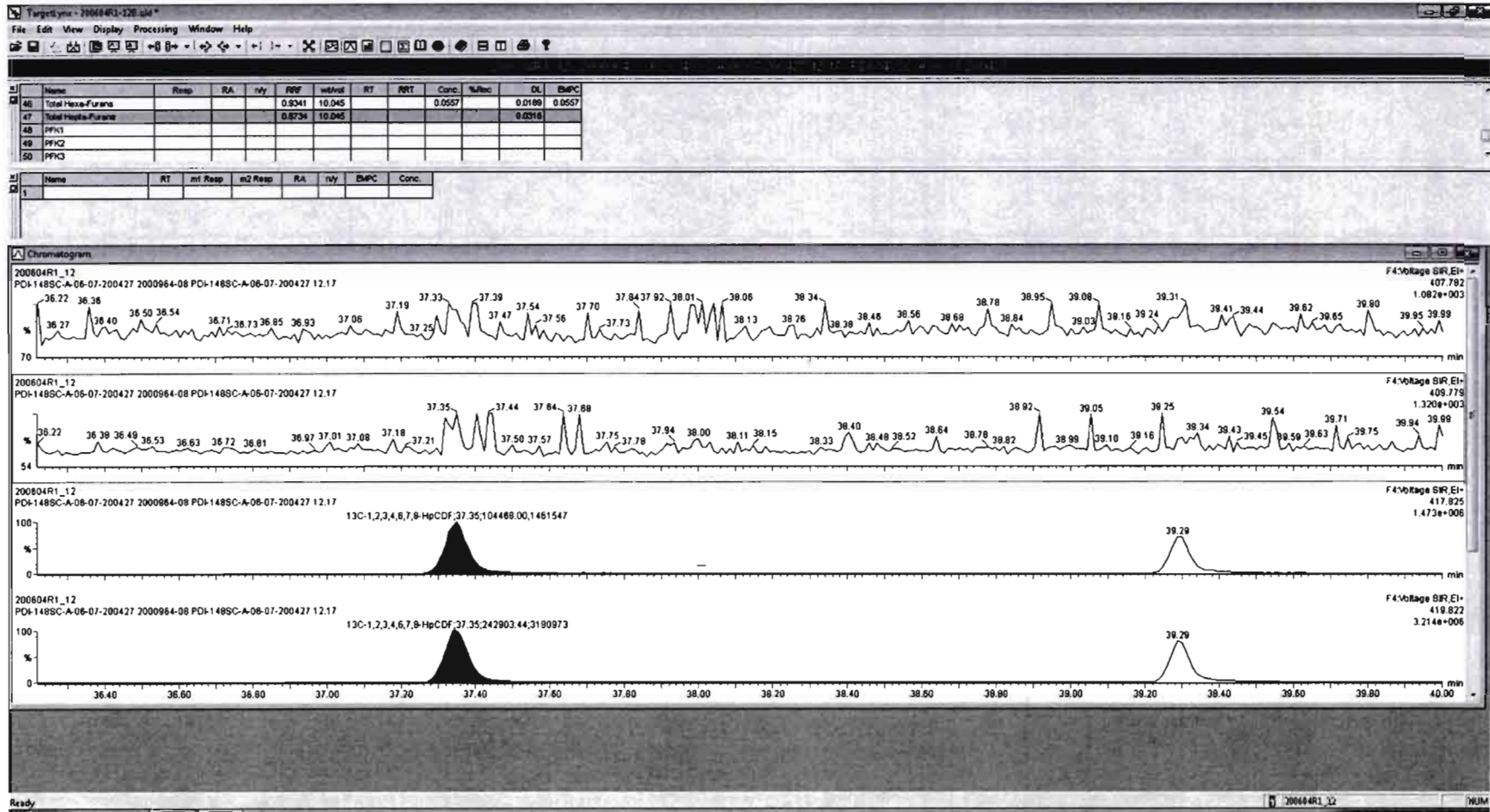


**DPE4**

200604R1\_12







Dataset: Untitled

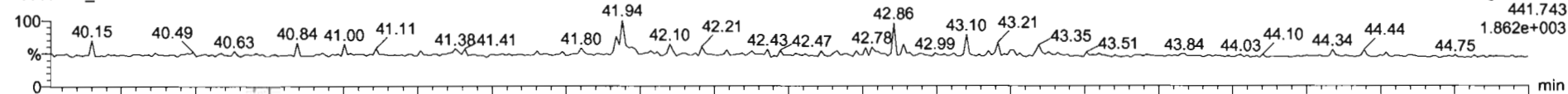
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

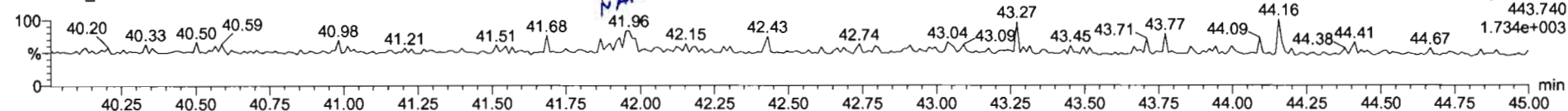
Name: 200604R1\_12, Date: 04-Jun-2020, Time: 16:45:53, ID: 2000964-08 PDI-148SC-A-06-07-200427 12.17, Description: PDI-148SC-A-06-07-200427

**OCDF**

200604R1\_12

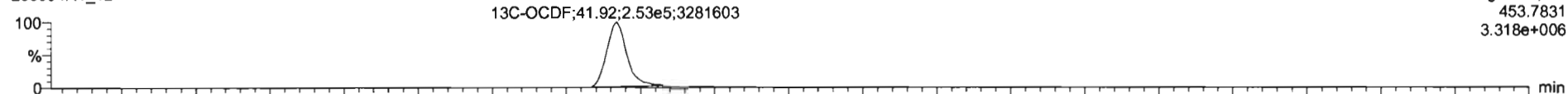


200604R1\_12

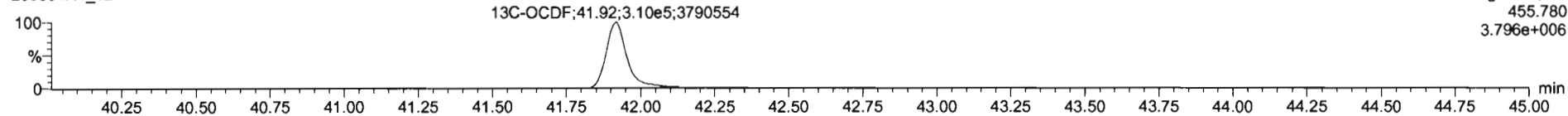


**13C-OCDF**

200604R1\_12

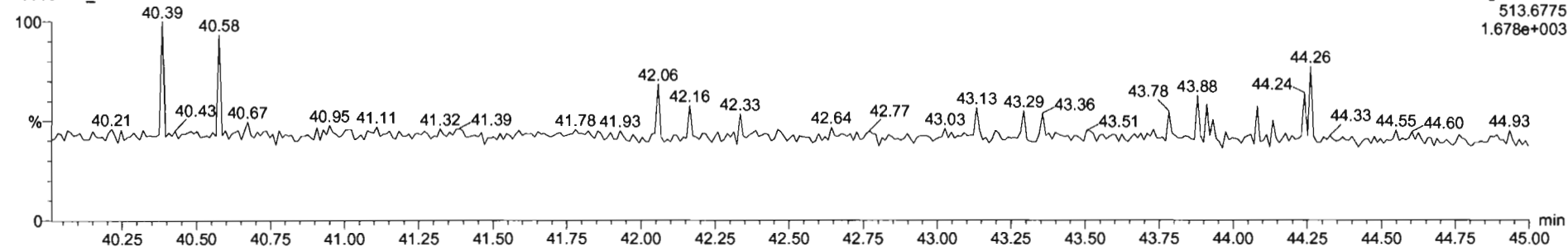


200604R1\_12



**DPE5**

200604R1\_12



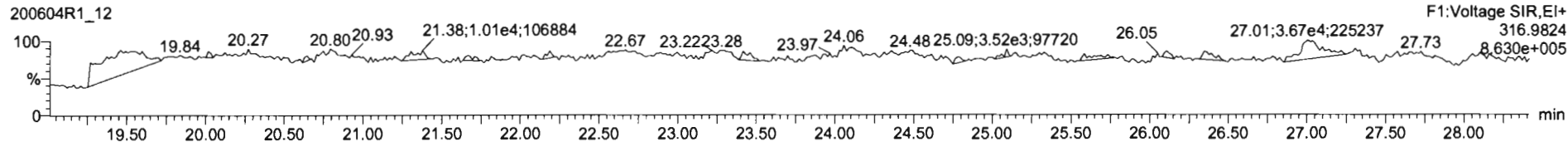


Dataset: Untitled

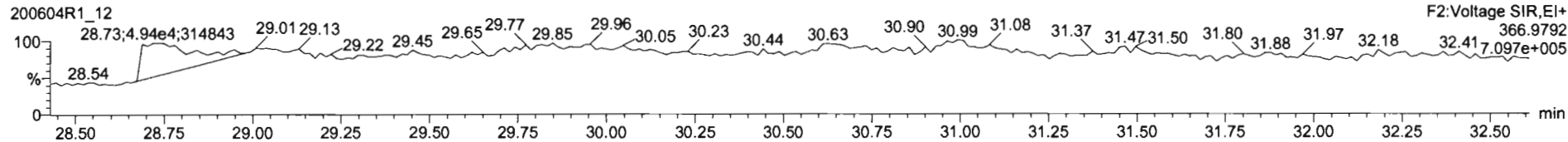
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_12, Date: 04-Jun-2020, Time: 16:45:53, ID: 2000964-08 PDI-148SC-A-06-07-200427 12.17, Description: PDI-148SC-A-06-07-200427

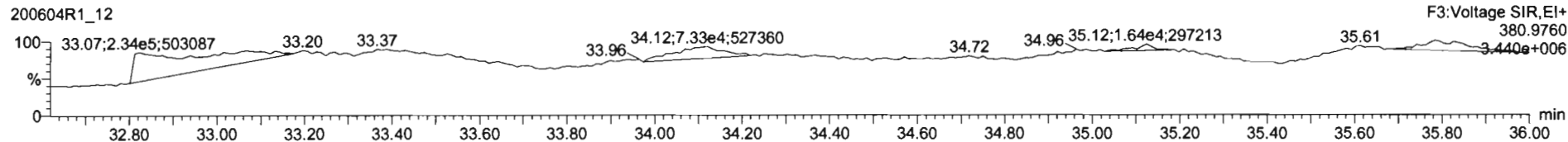
**PFK1**



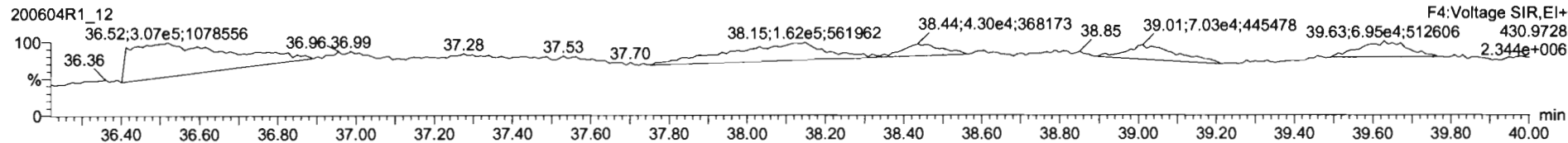
**PFK2**



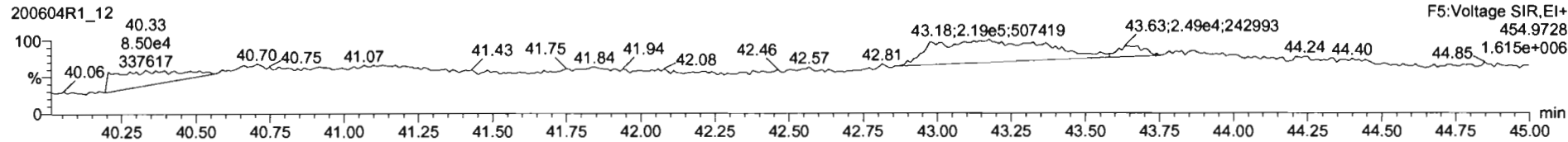
**PFK3**



**PFK4**



**PFK5**



Dataset: U:\VG12.PRO\Results\200604R1\200604R1-13C.qld

Last Altered: Wednesday, July 08, 2020 1:40:40 PM Pacific Daylight Time  
Printed: Wednesday, July 08, 2020 1:42:01 PM Pacific Daylight Time

HN 07/08/2020

C 07/16/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1\_13, Date: 04-Jun-2020, Time: 17:32:04, ID: B0E0067-DUP1 Duplicate 12.3, 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			NO	0.888	10.152	26.531		1.001				0.0665	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.152	31.488		1.001				0.0875	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.152	34.846		1.000				0.138	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.152	34.943		1.000				0.149	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.152	35.231		1.000				0.171	
6	6 1,2,3,4,6,7,8-HpCDD	6.42e2	1.04	NO	0.864	10.152	38.768	38.79	1.000	1.001	0.70556		0.150	0.706
7	7 OCDD	3.54e3	0.94	NO	0.914	10.152	41.738	41.76	1.000	1.001	4.4922		0.185	4.49
8	8 2,3,7,8-TCDF			NO	0.751	10.152	25.641		1.001				0.0370	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.152	30.205		1.001				0.0350	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.152	31.192		1.001				0.0322	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.152	33.963		1.000				0.0388	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.152	34.090		1.000				0.0337	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.152	34.701		1.001				0.0366	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.152	35.582		1.000				0.0543	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.152	37.387		1.001				0.0630	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.152	39.299		1.000				0.0658	
17	17 OCDF			NO	0.806	10.152	41.929		1.000				0.115	
18	18 13C-2,3,7,8-TCDD	5.98e5	0.81	NO	1.16	10.152	26.538	26.50	1.026	1.025	142.46	72.3	0.194	
19	19 13C-1,2,3,7,8-PeCDD	4.22e5	0.66	NO	0.849	10.152	31.729	31.47	1.227	1.217	137.03	69.6	0.223	
20	20 13C-1,2,3,4,7,8-HxCDD	2.76e5	1.30	NO	0.779	10.152	34.841	34.84	1.014	1.014	127.28	64.6	0.584	
21	21 13C-1,2,3,6,7,8-HxCDD	3.38e5	1.27	NO	1.02	10.152	34.955	34.94	1.017	1.017	119.28	60.5	0.448	
22	22 13C-1,2,3,7,8,9-HxCDD	3.04e5	1.25	NO	0.903	10.152	35.226	35.22	1.025	1.025	120.84	61.3	0.504	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.07e5	1.03	NO	0.689	10.152	38.751	38.76	1.128	1.128	107.99	54.8	0.511	
24	24 13C-OCDD	3.40e5	0.88	NO	0.652	10.152	41.775	41.74	1.216	1.215	187.10	47.5	0.487	
25	25 13C-2,3,7,8-TCDF	7.51e5	0.77	NO	1.06	10.152	25.578	25.61	0.989	0.991	129.07	65.5	0.313	
26	26 13C-1,2,3,7,8-PeCDF	6.42e5	1.59	NO	0.838	10.152	30.111	30.18	1.165	1.167	139.49	70.8	0.448	
27	27 13C-2,3,4,7,8-PeCDF	6.20e5	1.60	NO	0.817	10.152	31.065	31.16	1.202	1.205	138.22	70.2	0.460	
28	28 13C-1,2,3,4,7,8-HxCDF	3.55e5	0.51	NO	1.01	10.152	33.972	33.96	0.989	0.989	126.29	64.1	0.682	
29	29 13C-1,2,3,6,7,8-HxCDF	4.11e5	0.51	NO	1.17	10.152	34.096	34.08	0.992	0.992	126.42	64.2	0.589	
30	30 13C-2,3,4,6,7,8-HxCDF	3.65e5	0.51	NO	1.02	10.152	34.670	34.67	1.009	1.009	128.09	65.0	0.672	
31	31 13C-1,2,3,7,8,9-HxCDF	3.08e5	0.50	NO	0.860	10.152	35.570	35.58	1.035	1.036	128.44	65.2	0.799	

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-13C.qld

Last Altered: Wednesday, July 08, 2020 1:40:40 PM Pacific Daylight Time

Printed: Wednesday, July 08, 2020 1:42:01 PM Pacific Daylight Time

Name: 200604R1\_13, Date: 04-Jun-2020, Time: 17:32:04, ID: B0E0067-DUP1 Duplicate 12.3, 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	2.34e5	0.42	NO	0.774	10.152	37.319	37.35	1.086	1.087	108.39	55.0	0.493	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.66e5	0.42	NO	0.521	10.152	39.349	39.30	1.145	1.144	114.43	58.1	0.733	
34	34 13C-OCDF	4.01e5	0.87	NO	0.746	10.152	41.946	41.93	1.221	1.220	192.96	49.0	0.508	
35	35 37Cl-2,3,7,8-TCDD	3.01e5			1.04	10.152	26.569	26.53	1.028	1.026	80.064	102	0.0664	
36	36 13C-1,2,3,4-TCDD	7.15e5	0.79	NO	1.00	10.152	25.890	25.85	1.000	1.000	197.01	100	0.225	
37	37 13C-1,2,3,4-TCDF	1.08e6	0.79	NO	1.00	10.152	24.360	24.16	1.000	1.000	197.01	100	0.331	
38	38 13C-1,2,3,4,6,9-HxCDF	5.49e5	0.50	NO	1.00	10.152	34.420	34.36	1.000	1.000	197.01	100	0.687	
39	39 Total Tetra-Dioxins				0.888	10.152	24.620		0.000		0.00000		0.0390	0.0532
40	40 Total Penta-Dioxins				0.908	10.152	29.960		0.000				0.0356	
41	41 Total Hexa-Dioxins				0.892	10.152	33.635		0.000		0.57344		0.159	0.729
42	42 Total Hepta-Dioxins				0.864	10.152	37.640		0.000		0.70556		0.150	2.08
43	43 Total Tetra-Furans				0.751	10.152	23.610		0.000				0.0205	
44	44 1st Func. Penta-Furans				0.893	10.152	27.580		0.000				0.00720	
45	45 Total Penta-Furans				0.893	10.152	29.275		0.000				0.0176	
46	46 Total Hexa-Furans				0.934	10.152	33.555		0.000				0.0214	
47	47 Total Hepta-Furans				0.873	10.152	37.835		0.000				0.0332	

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-13C.qld

Last Altered: Wednesday, July 08, 2020 1:40:40 PM Pacific Daylight Time  
 Printed: Wednesday, July 08, 2020 1:42:01 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45  
 Calibration: U:\VG12.PRO\CurveDB\ldb5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1\_13, Date: 04-Jun-2020, Time: 17:32:04, ID: B0E0067-DUP1 Duplicate 12.3, 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	24.36	1.494e3	2.590e3	6.230e1	1.165e2	0.53	YES	0.000e0	0.00000	0.053153	0.0390

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.35	9.340e3	8.787e3	4.276e2	3.672e2	1.16	NO	7.947e2	0.57344	0.57344	0.159
2	Total Hexa-Dioxins	34.20	4.182e3	2.280e3	1.975e2	9.627e1	2.05	YES	0.000e0	0.00000	0.15560	0.159

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.76	9.891e3	8.415e3	7.505e2	6.139e2	1.22	YES	0.000e0	0.00000	1.3773	0.150
2	1,2,3,4,6,7,8-HpCDD	38.79	4.330e3	5.197e3	3.278e2	3.137e2	1.04	NO	6.415e2	0.70556	0.70556	0.150

**Tetra-Furans**

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

**Penta-Furans function 1**

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

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-13C.qld  
Last Altered: Wednesday, July 08, 2020 1:40:40 PM Pacific Daylight Time  
Printed: Wednesday, July 08, 2020 1:42:01 PM Pacific Daylight Time

Name: 200604R1\_13, Date: 04-Jun-2020, Time: 17:32:04, ID: B0E0067-DUP1 Duplicate 12.3, Description: Duplicate

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												

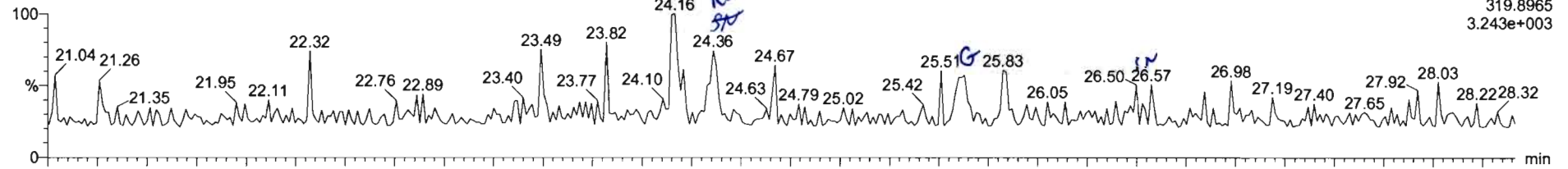
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Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_13, Date: 04-Jun-2020, Time: 17:32:04, ID: B0E0067-DUP1 Duplicate 12.3, Description: Duplicate

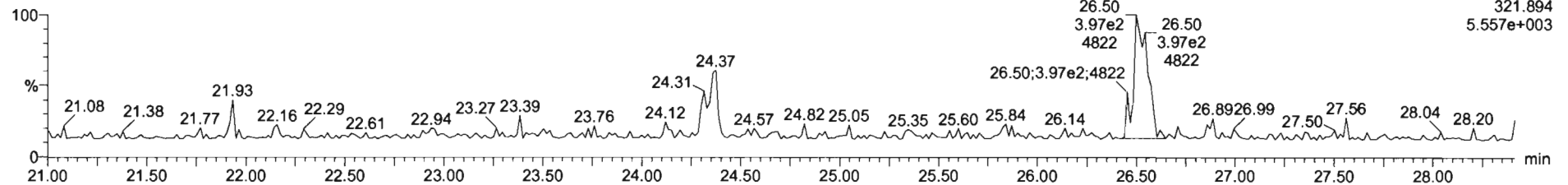
2,3,7,8-TCDD

200604R1\_13



F1:Voltage SIR,EI+  
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3.243e+003

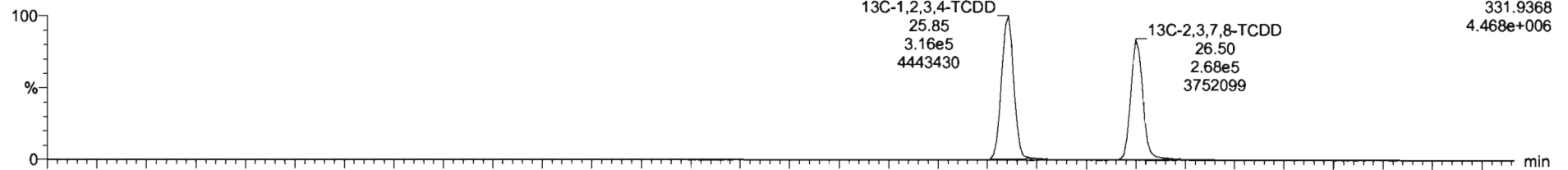
200604R1\_13



F1:Voltage SIR,EI+  
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5.557e+003

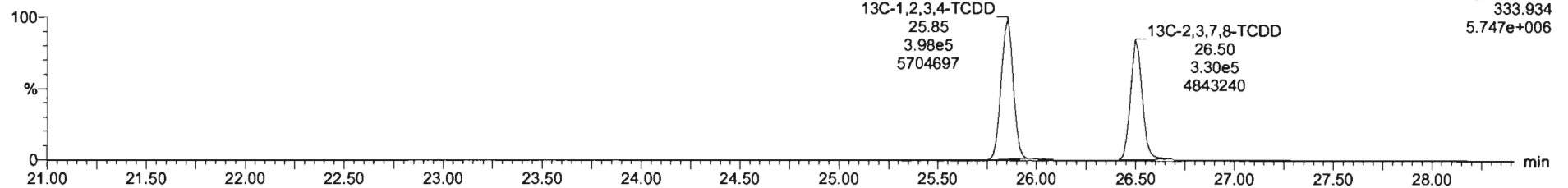
13C-2,3,7,8-TCDD

200604R1\_13



F1:Voltage SIR,EI+  
331.9368  
4.468e+006

200604R1\_13

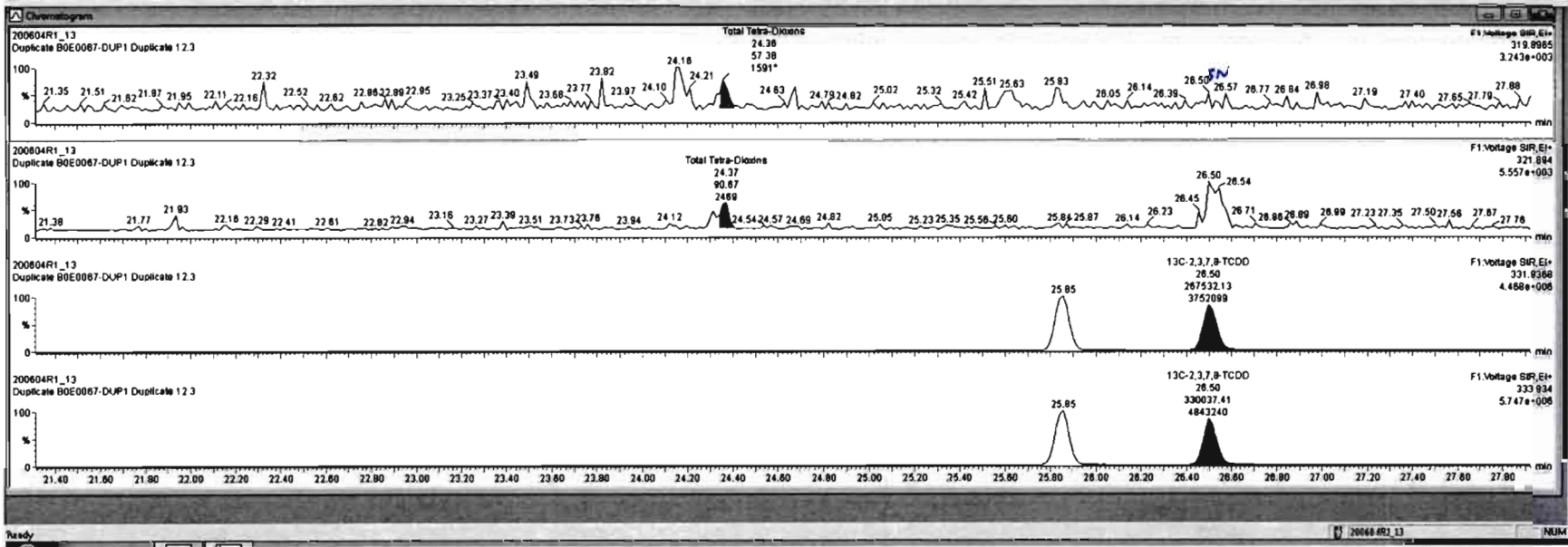


F1:Voltage SIR,EI+  
333.934  
5.747e+006



#	Name	Resp	RA	nly	RWF	width	Peak RT	RT	RRT	Conc	%Rec	DL	BWPC
39	Total Tetra-Dioxins				0.8823	10.152	24.32			0.000		0.0000	0.0400
40	Total Penta-Dioxins				0.9081	10.152	29.90					0.0000	
41	Total Hexa-Dioxins				0.8923	10.152	33.83			0.573		0.190	0.573
42	Total Hepta-Dioxins				0.8630	10.152	37.84			0.706		0.190	2.00
43	Total Tetra-Furans				0.7810	10.152	23.81					0.0200	
44	1st Func. Penta-Furans				0.8825	10.152	27.59					0.00720	
45	Total Penta-Furans				0.8825	10.152	29.27					0.0178	

#	Name	RT	m1 Resp	m2 Resp	RA	nly	BWPC	Conc.
1	Total Tetra-Dioxins	24.30	4.724e1	8.067e1	0.52	YES	0.040301	0.00000



Dataset: Untitled

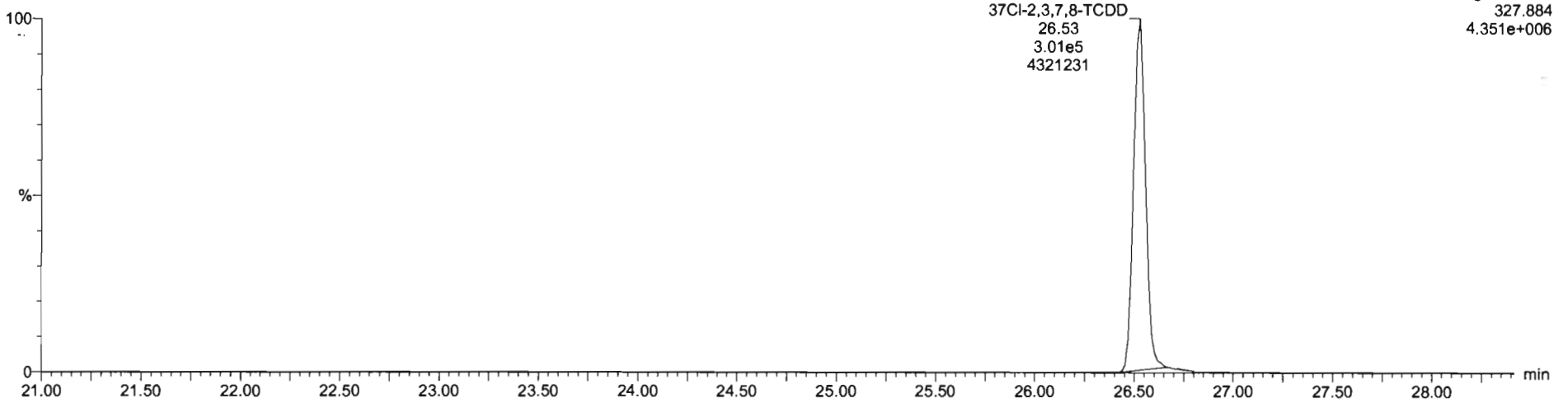
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_13, Date: 04-Jun-2020, Time: 17:32:04, ID: B0E0067-DUP1 Duplicate 12.3, Description: Duplicate

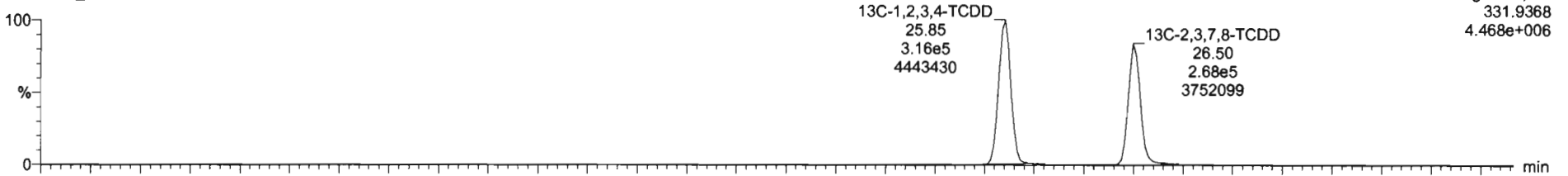
**37Cl-2,3,7,8-TCDD**

200604R1\_13

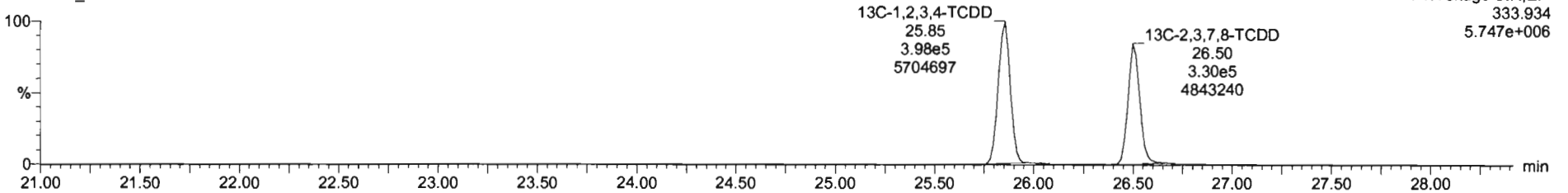


**13C-1,2,3,4-TCDD**

200604R1\_13



200604R1\_13



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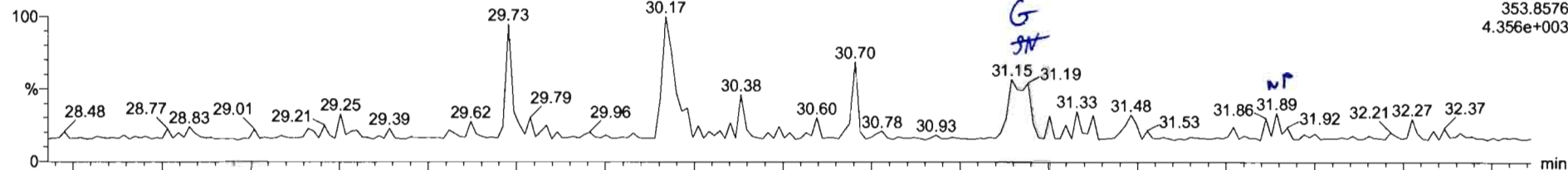
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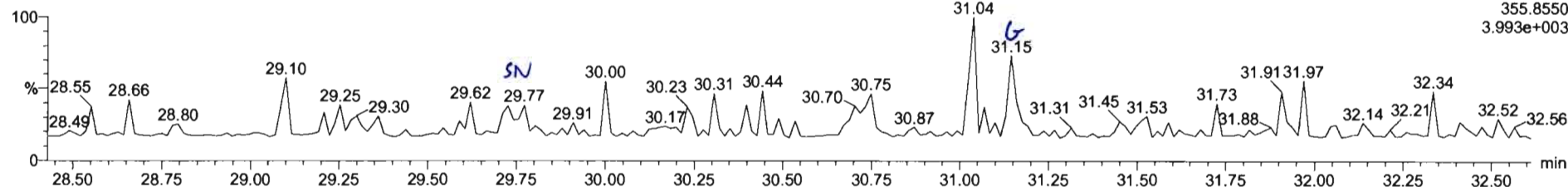
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1,2,3,7,8-PeCDD

200604R1\_13

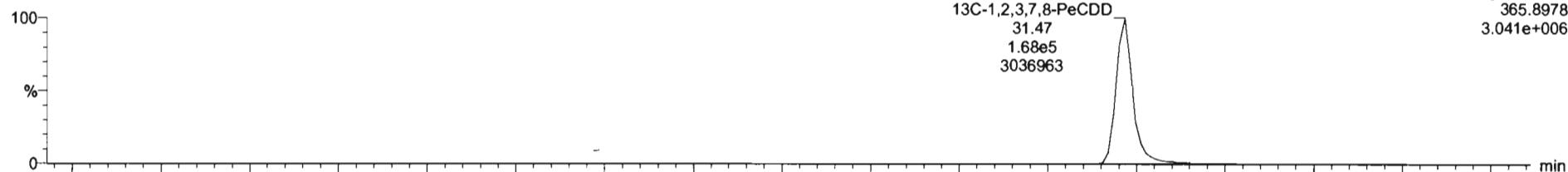


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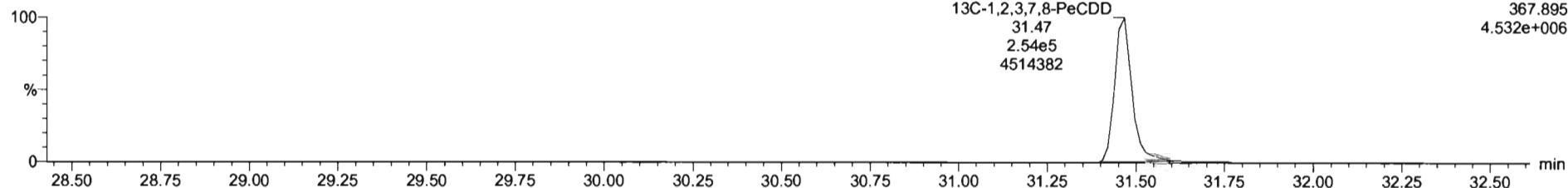


13C-1,2,3,7,8-PeCDD

200604R1\_13

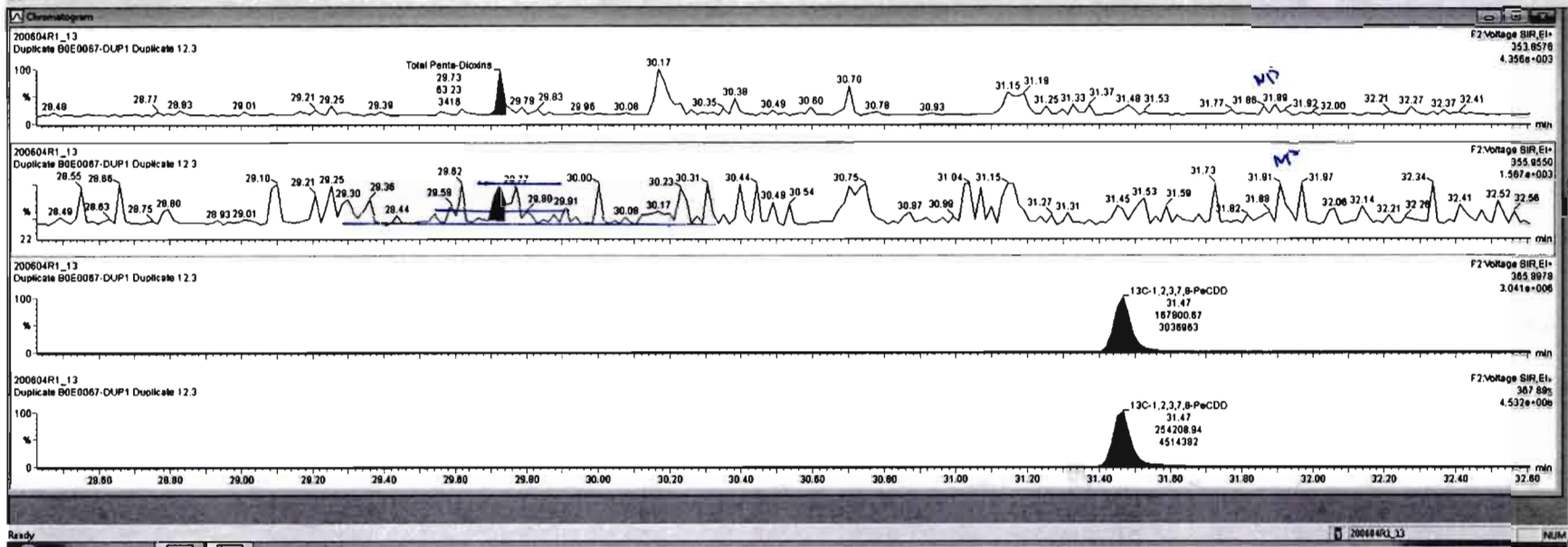


200604R1\_13



Name	Resp	RA	n/y	NF	wt/wt	Prod RT	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9883	10.152	24.62			0.000		0.0390	0.0490
40 Total Penta-Dioxins				0.9991	10.152	28.98			0.206		0.8580	0.0187
41 Total Hexa-Dioxins				0.8923	10.152	33.63			0.573		0.159	0.573
42 Total Hepta-Dioxins				0.8639	10.152	37.84			0.706		0.160	2.00
43 Total Tetra-Furans				0.7510	10.152	23.81					0.0205	
44 1st Func. Penta-Furans				0.8825	10.152	27.59					0.00720	
45 Total Penta-Furans				0.8825	10.152	28.27					0.0178	

Name	RT	ret Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	29.73	6.523e1	2.237e1	2.83	YES	0.018749	0.00000



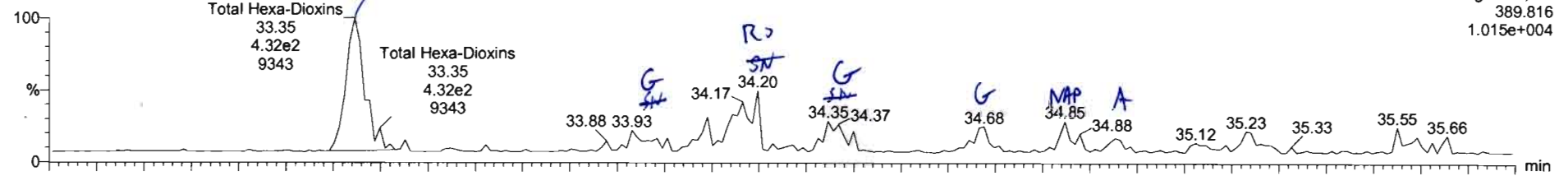
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

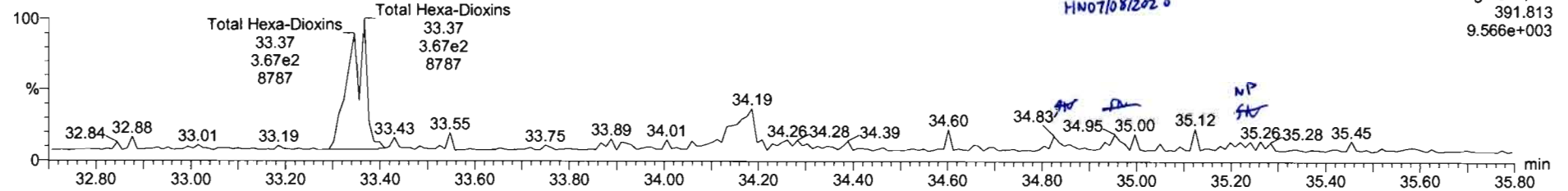
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1,2,3,4,7,8-HxCDD

200604R1\_13

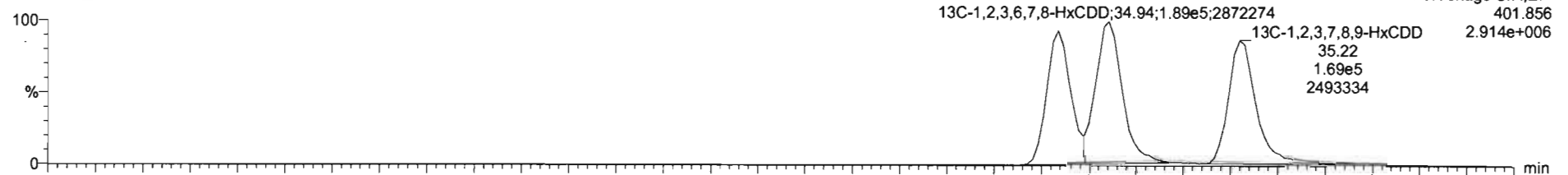


200604R1\_13

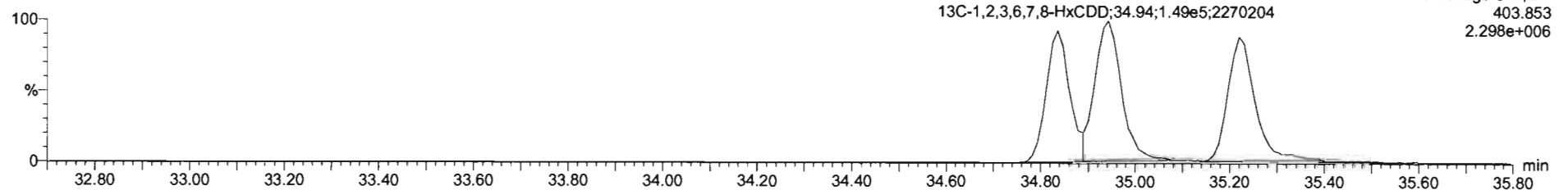


13C-1,2,3,4,7,8-HxCDD

200604R1\_13



200604R1\_13









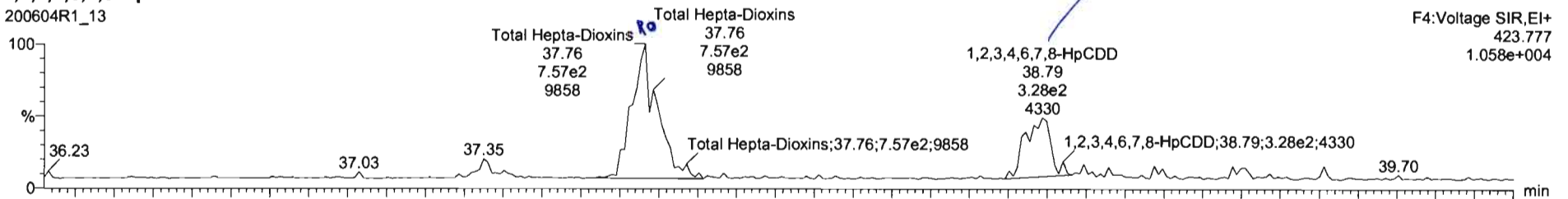
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

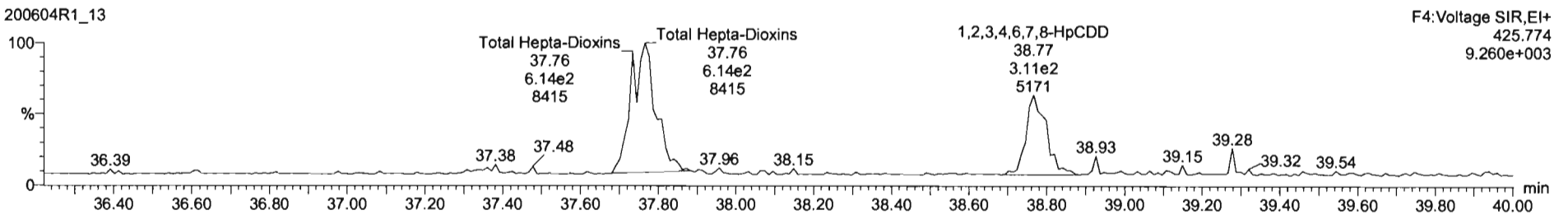
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1,2,3,4,6,7,8-HpCDD

200604R1\_13

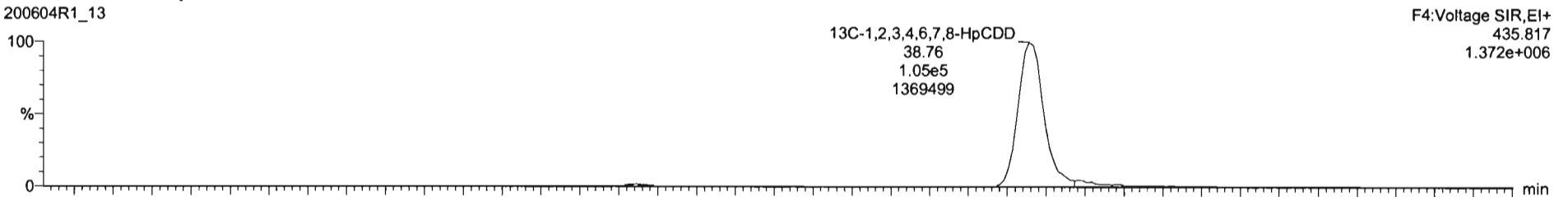


200604R1\_13

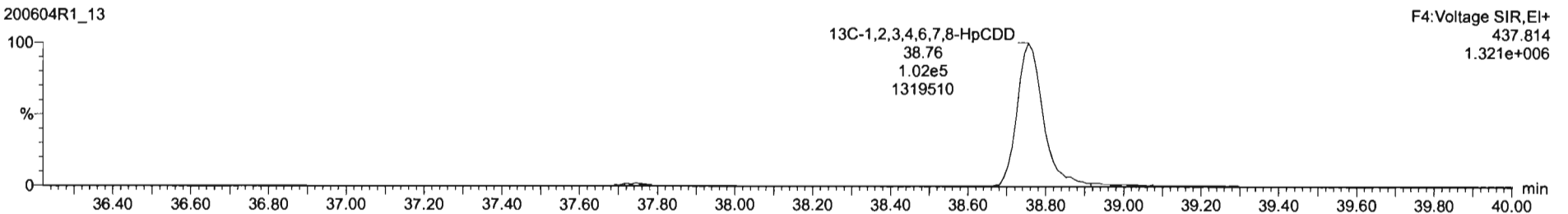


13C-1,2,3,4,6,7,8-HpCDD

200604R1\_13



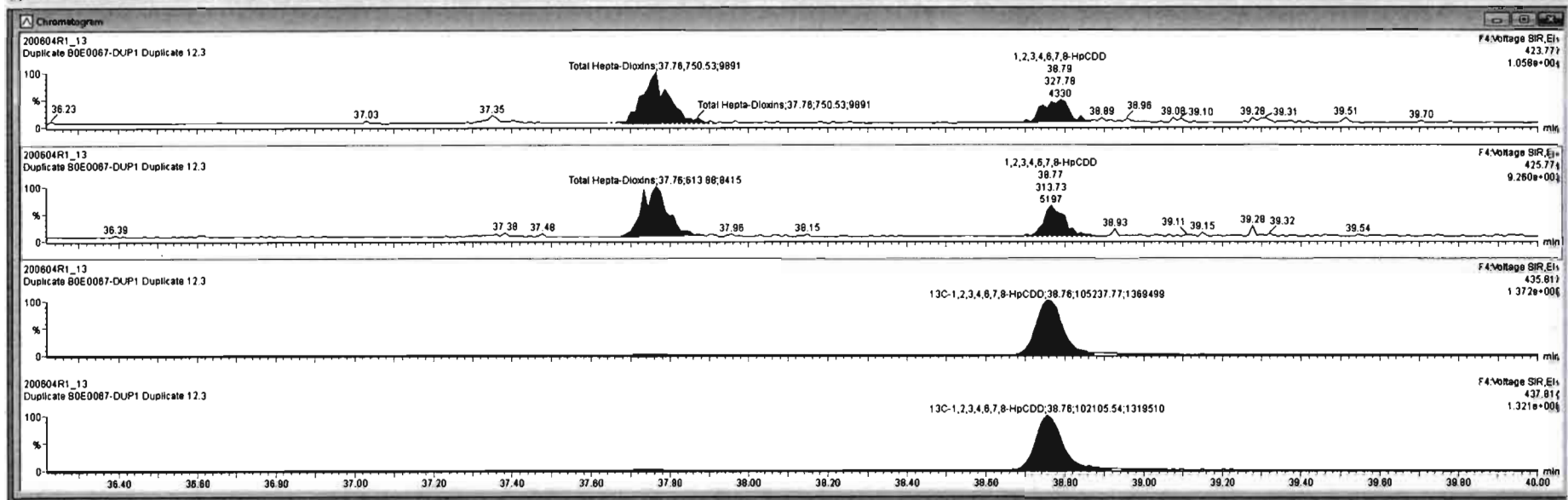
200604R1\_13





#	Name	Resp	RA	rvy	RRF	wfAvr	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8883	10.152					0.0390	
40	Total Penta-Dioxins				0.9081	10.152					0.0356	
41	Total Hexa-Dioxins				0.8923	10.152			0.573		0.158	0.573
42	Total Hepta-Dioxins				0.8838	10.152			0.706		0.150	2.08
43	Total Tetra-Furans				0.7510	10.152					0.0205	
44	1st Func. Penta-Furans				0.8925	10.152					0.00720	
45	Total Penta-Furans				0.8925	10.152					0.0176	
46	Total Hexa-Furans				0.9341	10.152					0.0214	

#	Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc.
1	Total Hepta-Dioxins	37.76	7.505e2	6.139e2	1.22	YES	1.3773	0.00000
2	1,2,3,4,6,7,8-HpCDD	38.79	3.278e2	3.137e2	1.04	NO	0.70556	0.70558



Dataset: Untitled

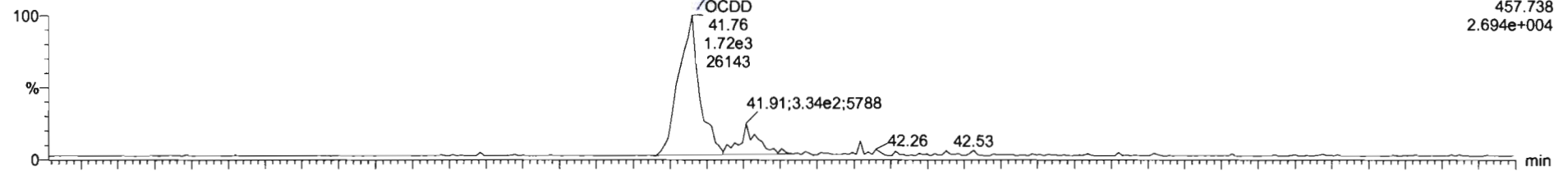
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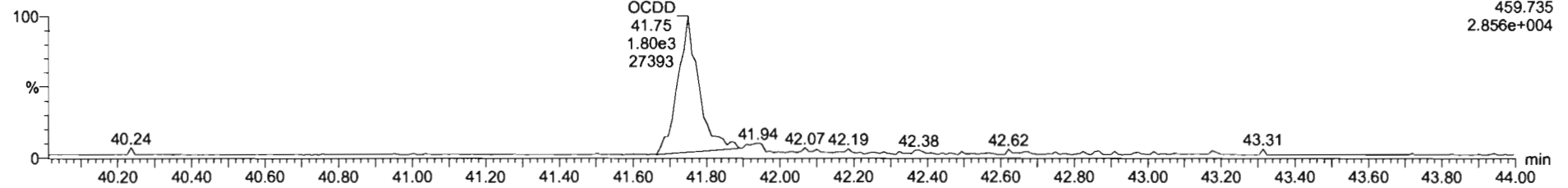
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**OCDD**

200604R1\_13

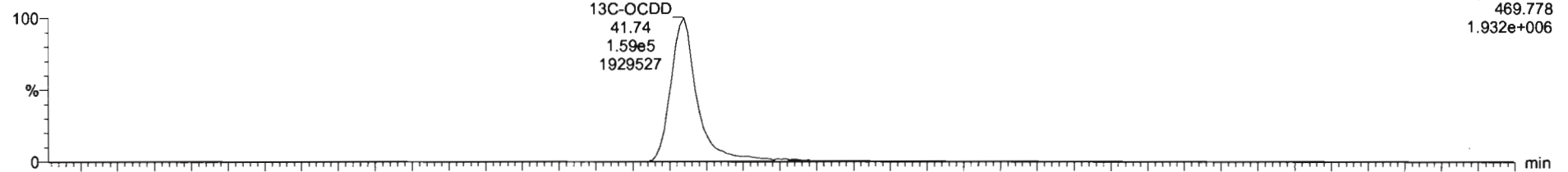


200604R1\_13

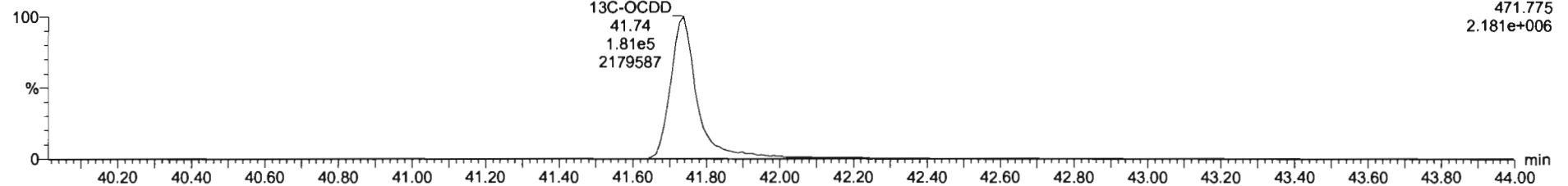


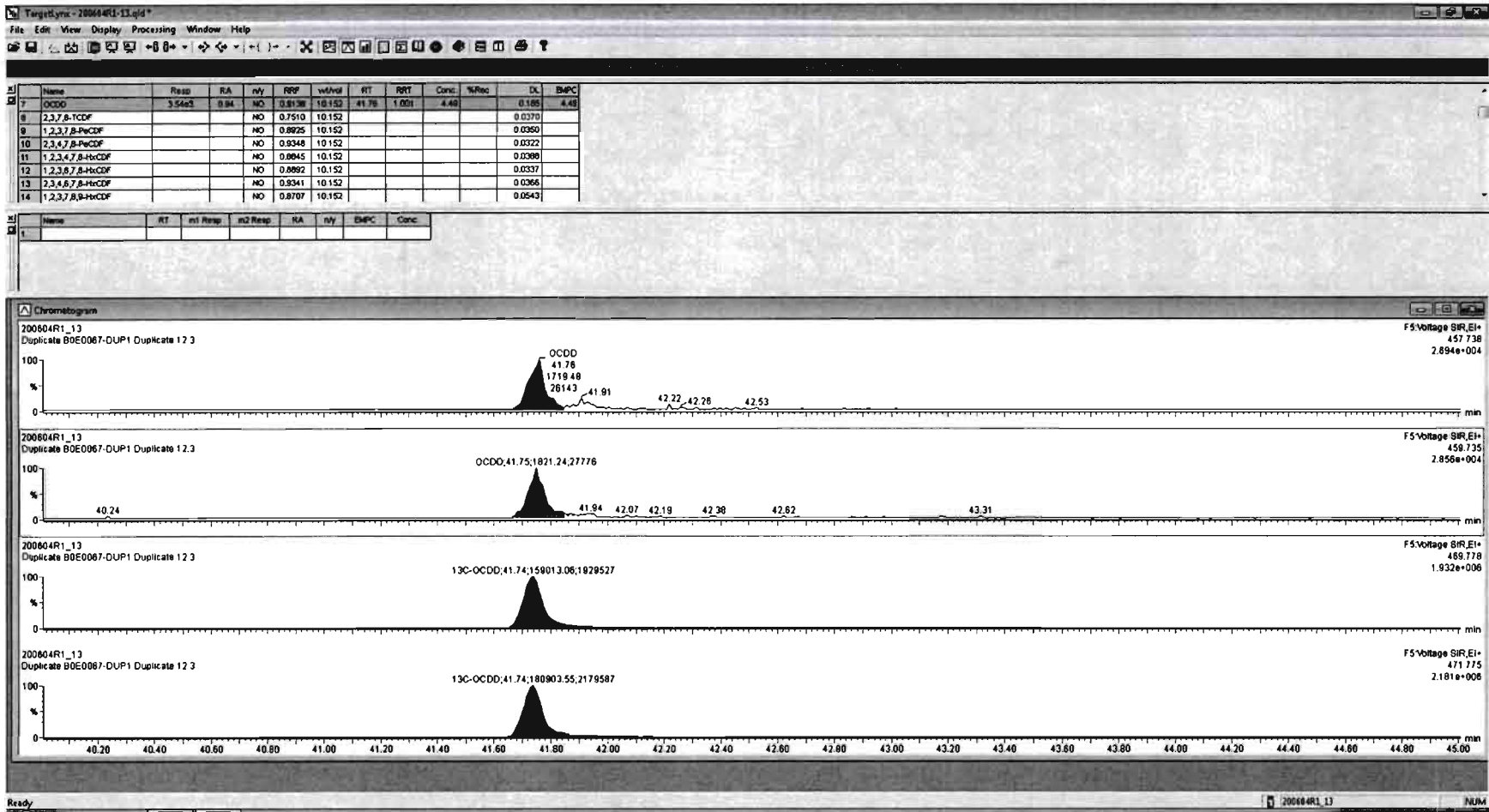
**13C-OCDD**

200604R1\_13



200604R1\_13





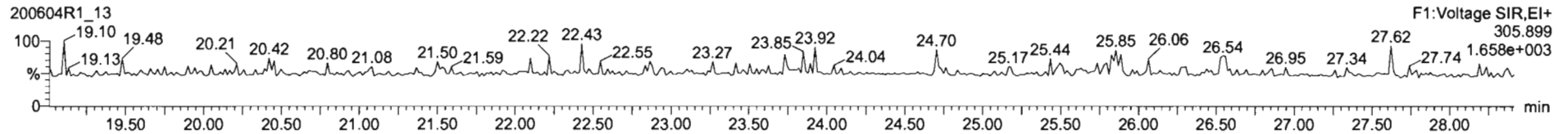
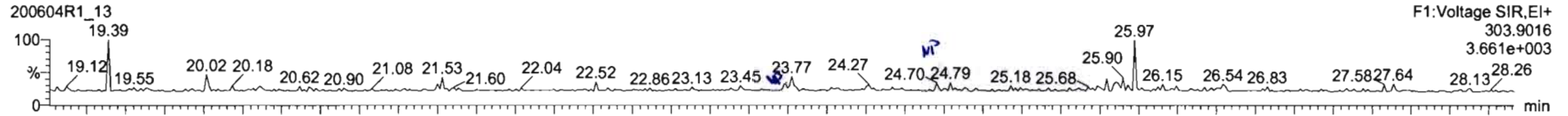


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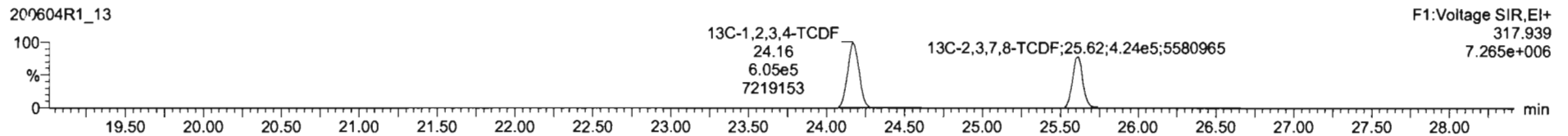
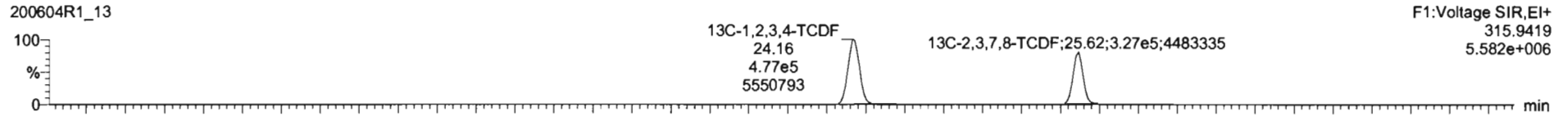
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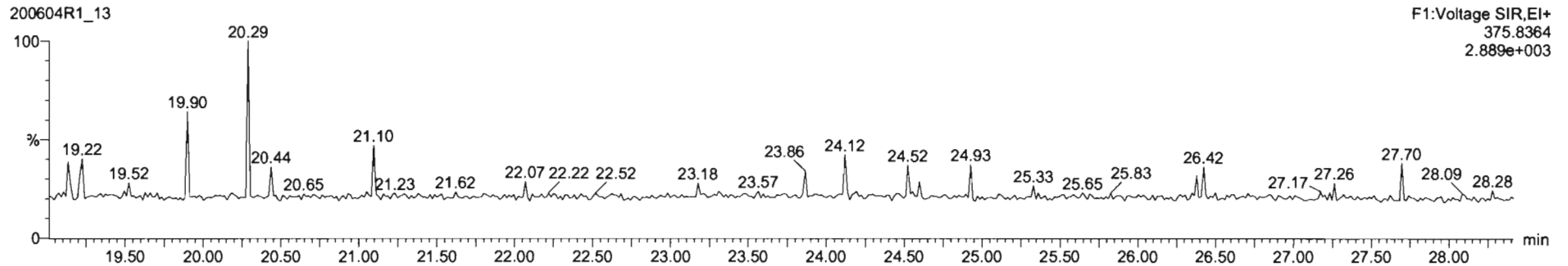
**2,3,7,8-TCDF**



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



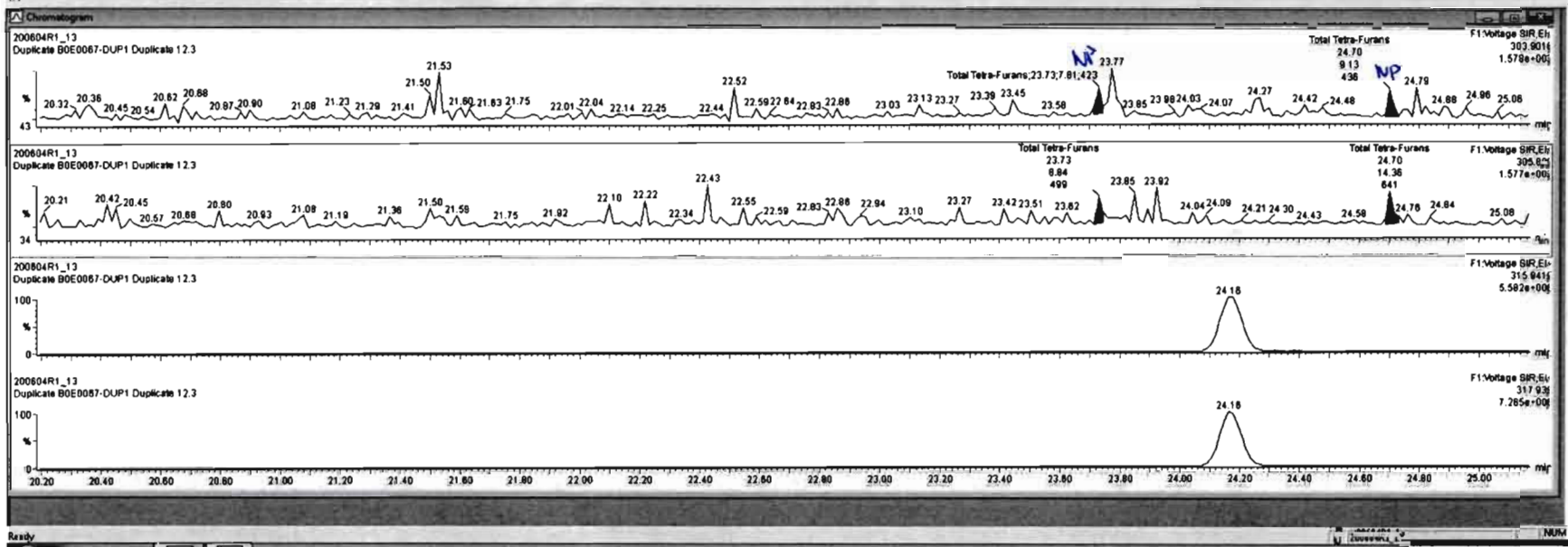
**DPE1**

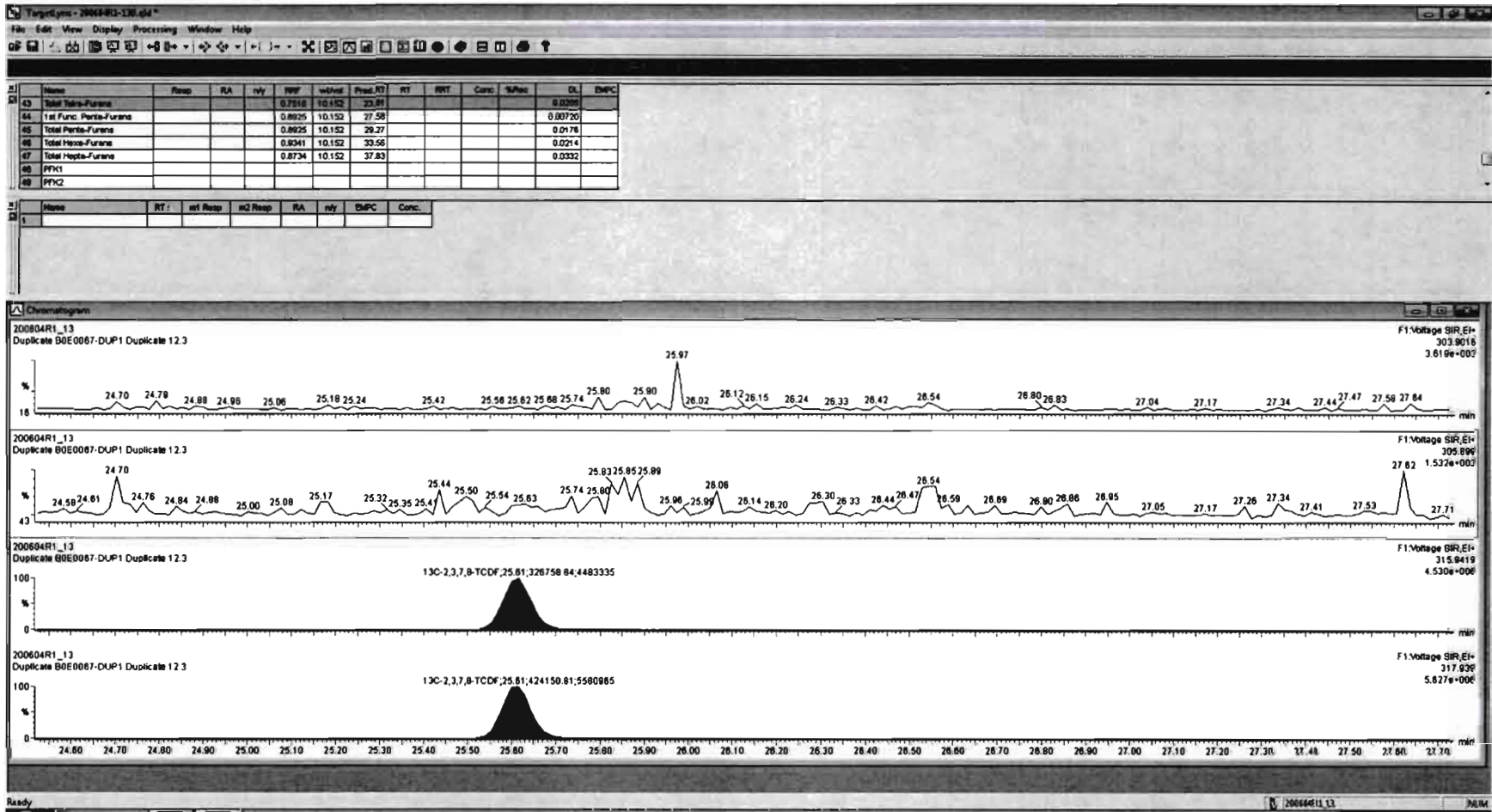




43	Name	Resp	RA	rvy	RVr	rdVrd	ProdRT	RT	RRT	Conc	%Rec	DL	ElpC
43	Total Tetra-Furans				0.7910	10.152	23.81			0.00001		0.0000	8.9123
44	1st Func. Penta-Furans				0.8925	10.152	27.50					0.0070	
45	Total Penta-Furans				0.8925	10.152	28.27					0.0178	
46	Total Hexa-Furans				0.8241	10.152	33.66					0.0214	
47	Total Hepta-Furans				0.8734	10.152	37.83					0.0332	
48	PFH1												
49	PFH2												

51	Name	RT	ret Resp	m2 Resp	RA	rvy	ElpC	Conc.
1	Total Tetra-Furans	23.73	7.809e0	8.836e0	0.80	NO	0.00581	0.0058150
2	Total Tetra-Furans	24.70	9.125e0	1.436e1	0.84	YES	0.00732	0.00000





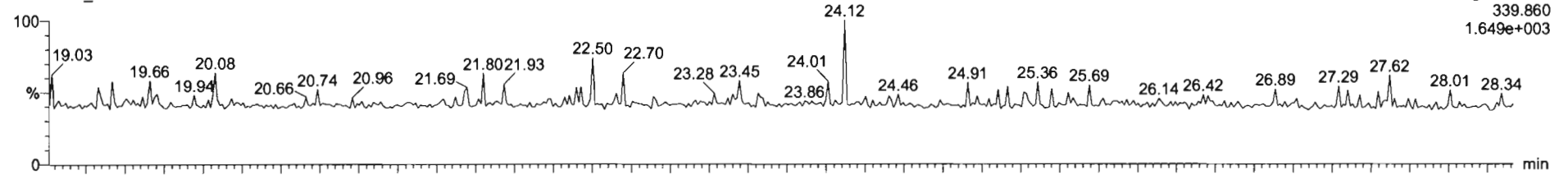
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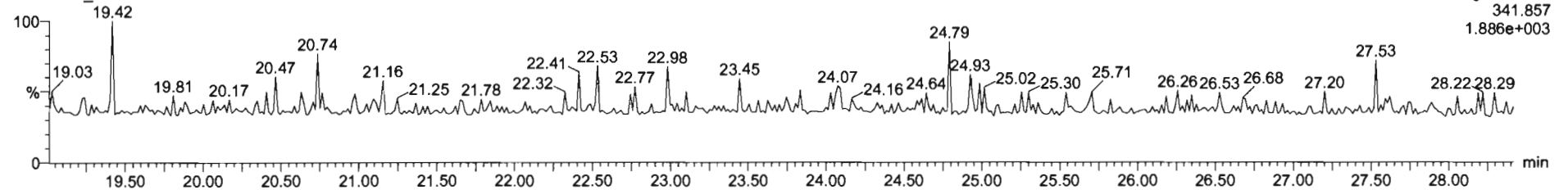
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1st Func. Penta-Furans

200604R1\_13

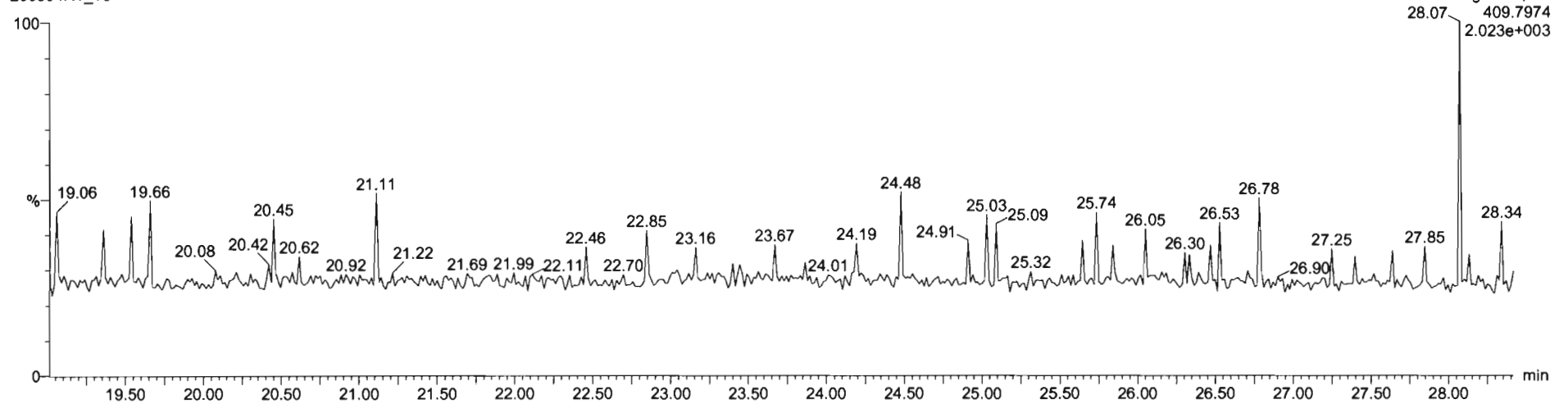


200604R1\_13



DPE6

200604R1\_13



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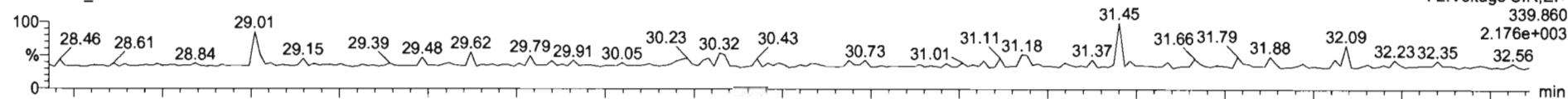
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

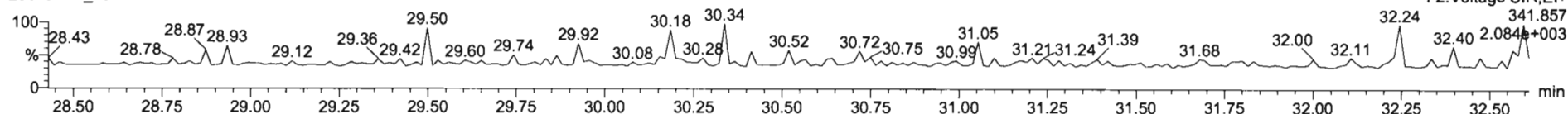
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1,2,3,7,8-PeCDF

200604R1\_13

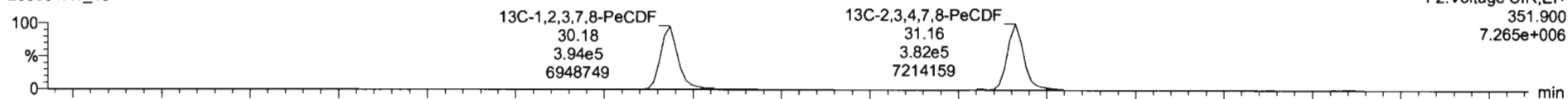


200604R1\_13

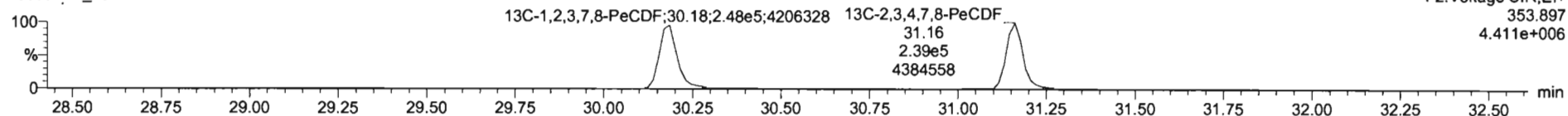


13C-1,2,3,7,8-PeCDF

200604R1\_13

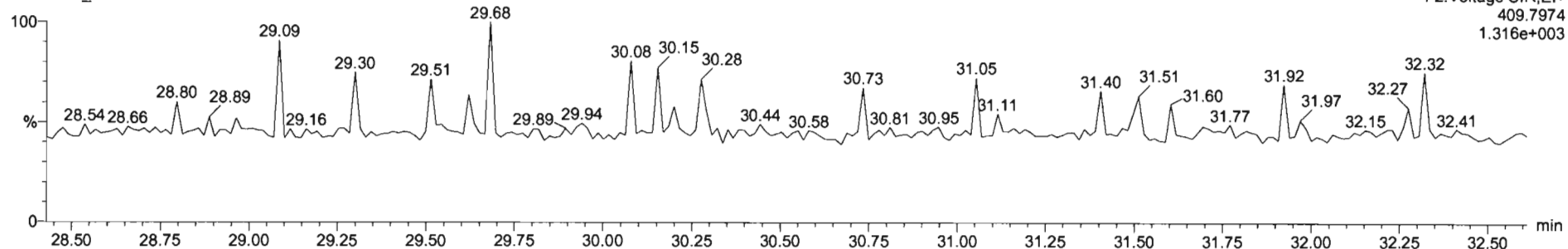


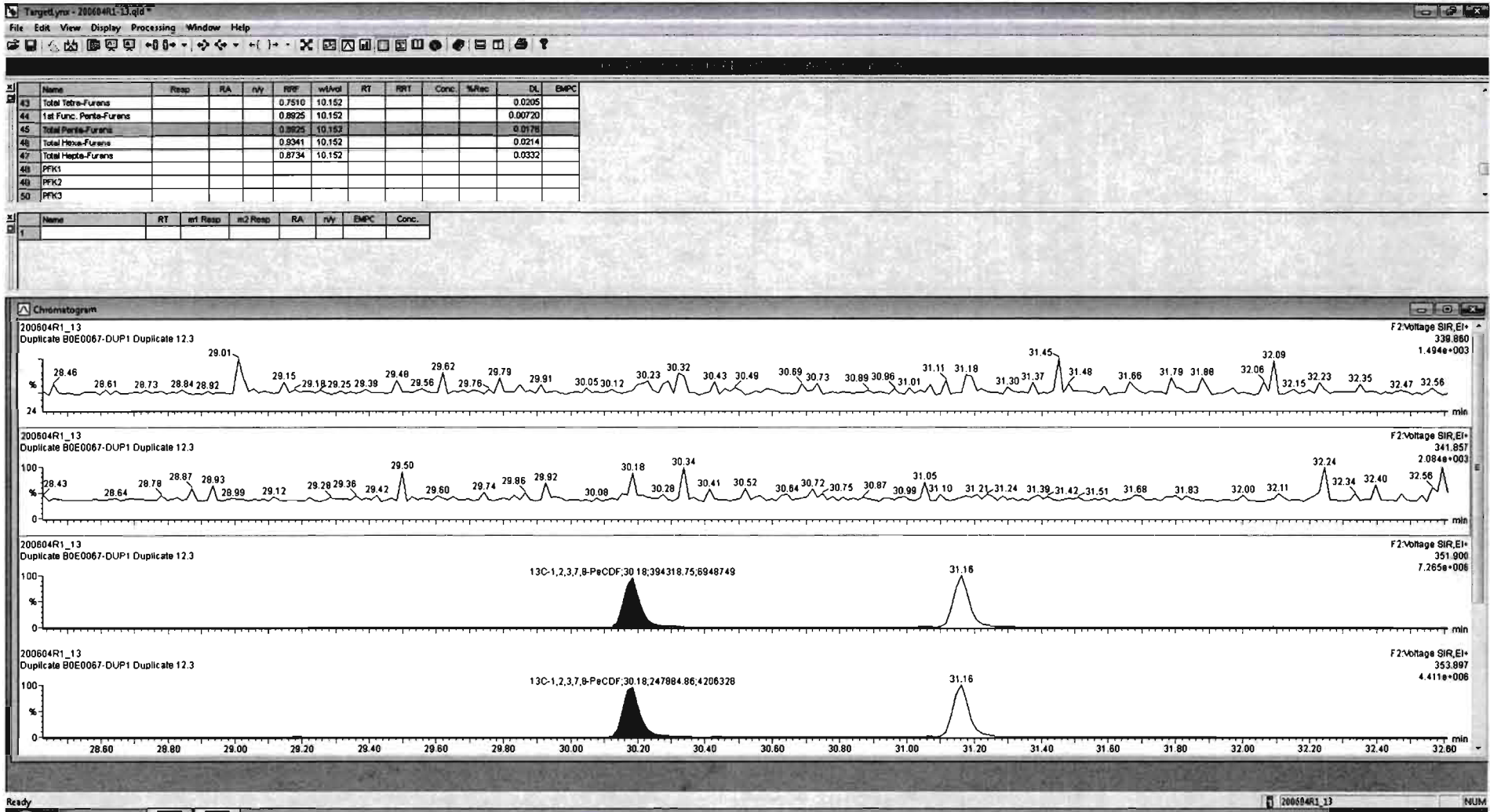
200604R1\_13



DPE2

200604R1\_13





Dataset: Untitled

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

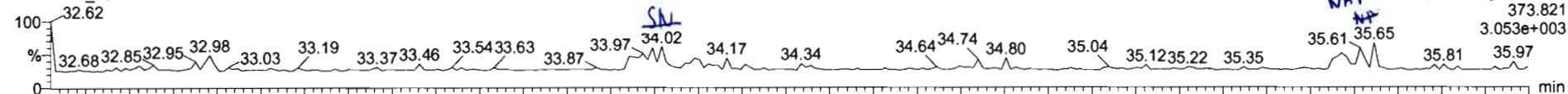
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HN 07/08/2020

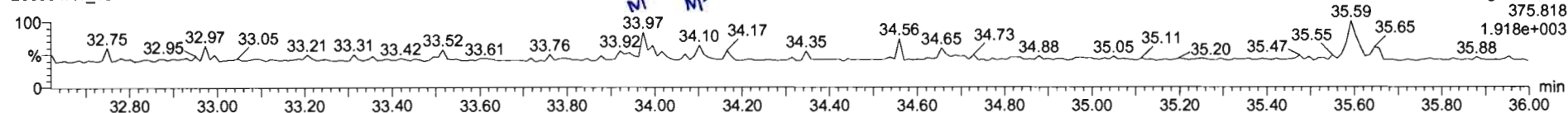
HN 07/08/2020

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

200604R1\_13

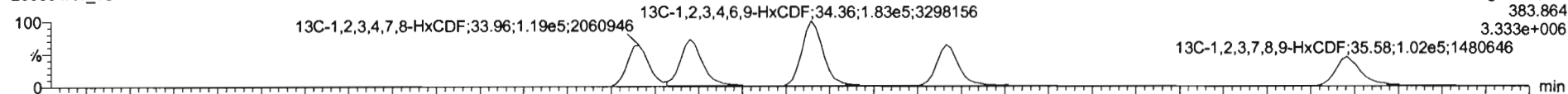


200604R1\_13

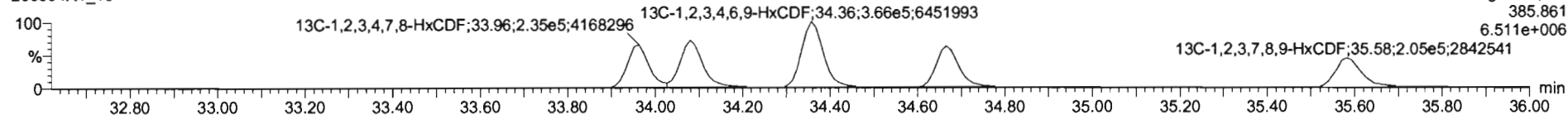


13C-1,2,3,4,7,8-HxCDF

200604R1\_13

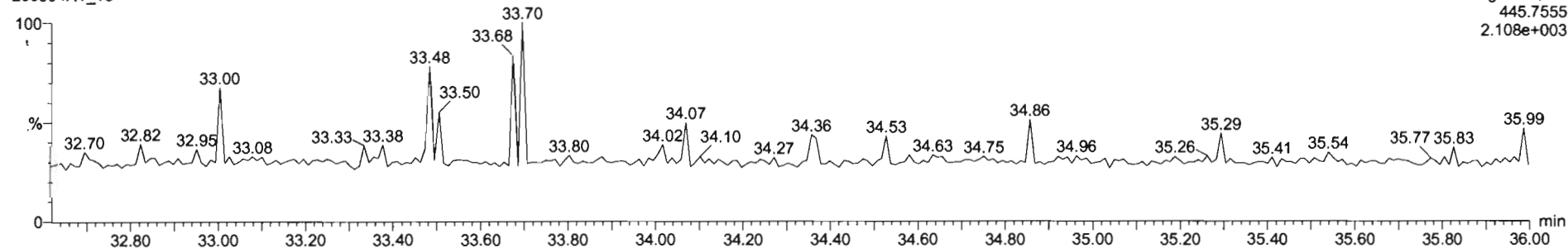


200604R1\_13



DPE3

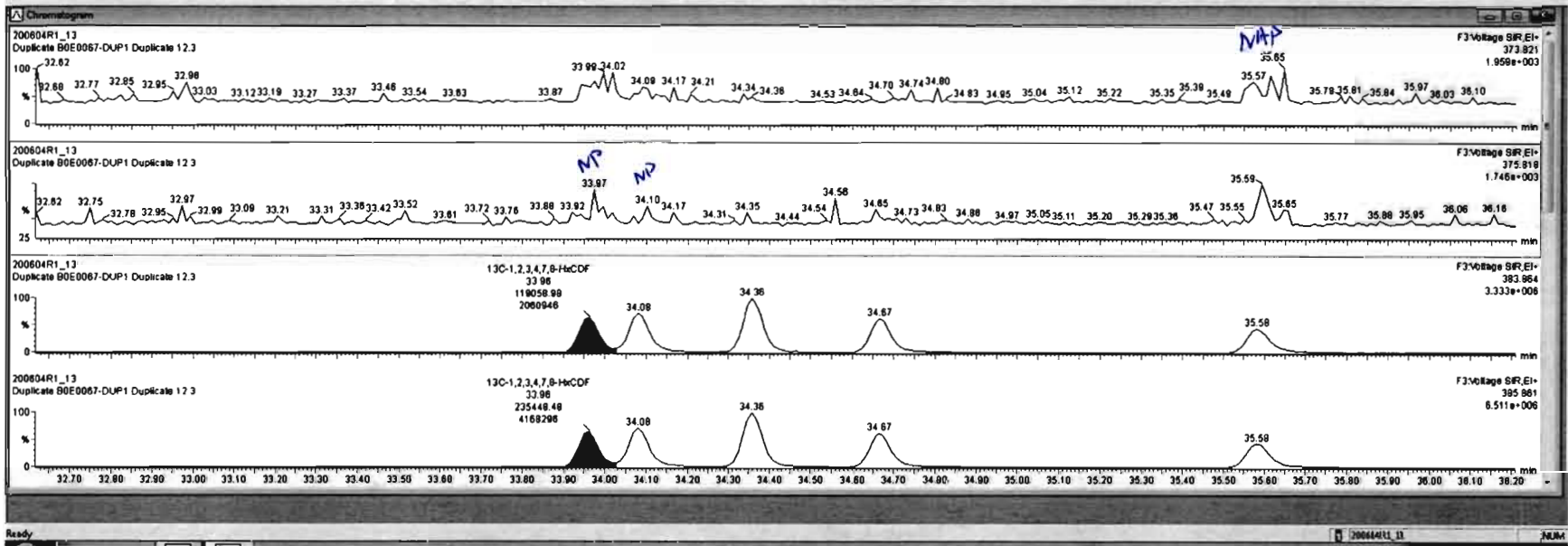
200604R1\_13





#	Name	Resp	RA	rvy	RT	width	Peak RT	RT	WRT	Conc.	%Res.	DL	EWPC
43	Total Tetra-Furane				0.7510	10.152	23.81					0.0205	
44	1st Func. Penta-Furane				0.8825	10.152	27.58					0.00720	
45	Total Penta-Furane				0.8825	10.152	28.27					0.0178	
46	Total Hexa-Furane				0.8211	10.152	32.38					0.0214	
47	Total Hepta-Furane				0.8734	10.152	37.83					0.0332	
48	PPK1												
49	PPK2												

#	Name	RT	m1 Resp	m2 Resp	RA	rvy	EWPC	Conc.
1								

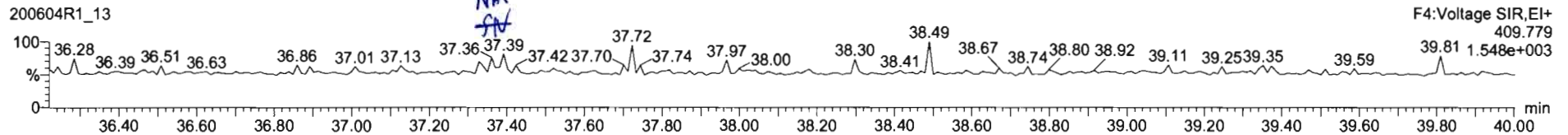
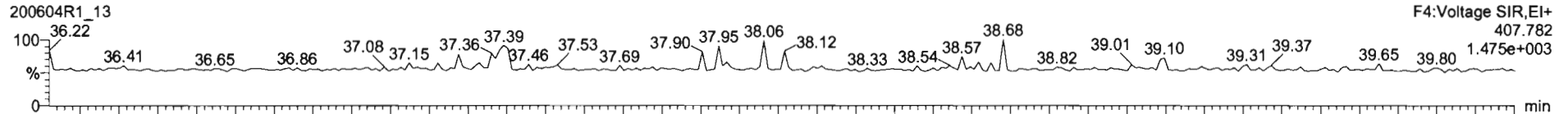


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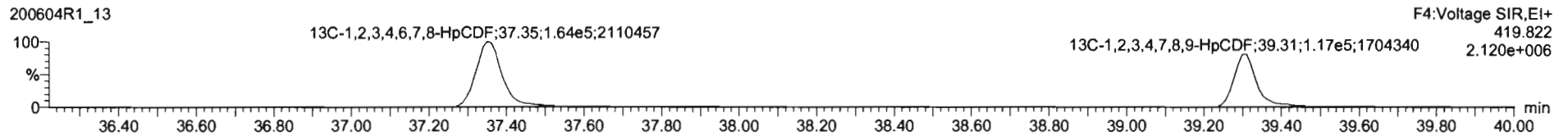
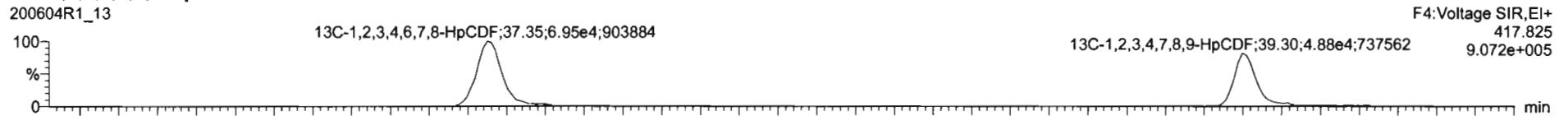
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

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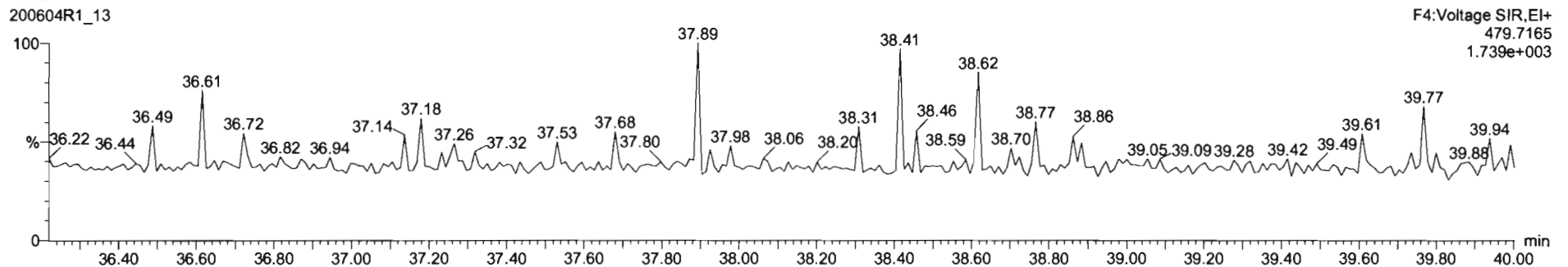
1,2,3,4,6,7,8-HpCDF



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

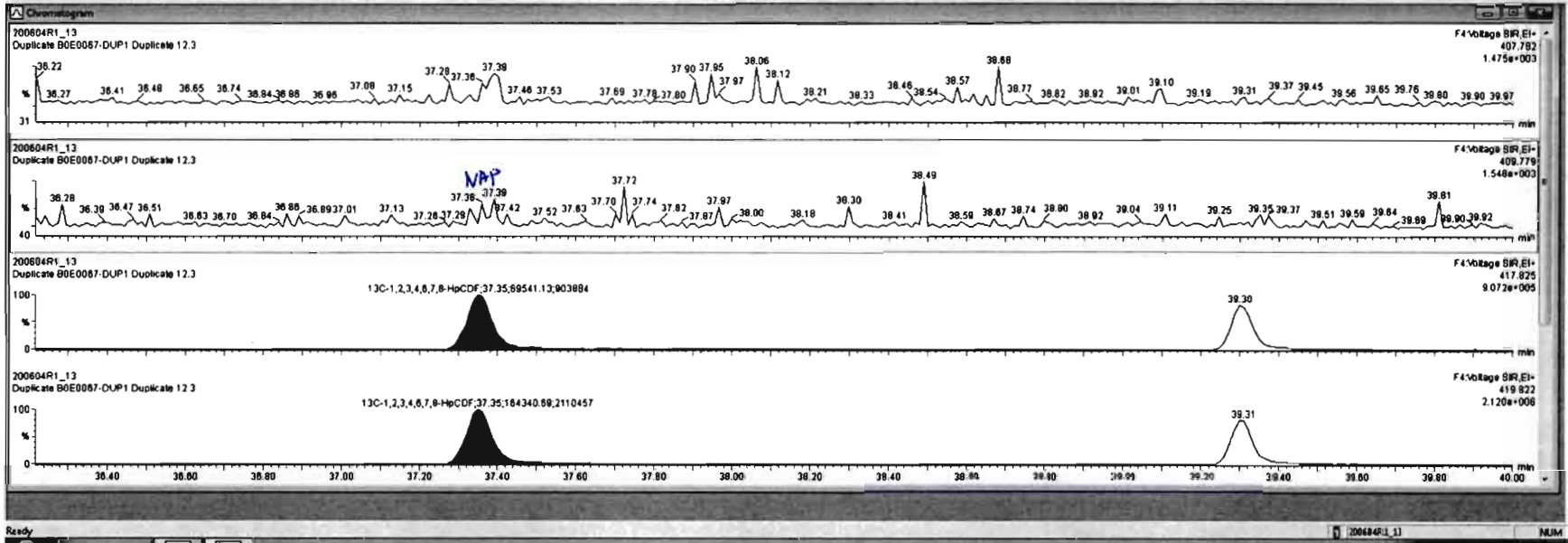


DPE4



#	Name	Resp	RA	rvy	FW	Method	Prod RT	RT	RPY	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7510	10.152	23.81					0.0205	
44	1st Func. Penta-Furans				0.8825	10.152	27.58					0.00720	
45	Total Penta-Furans				0.8825	10.152	29.27					0.0176	
46	Total Hexa-Furans				0.9341	10.152	33.56					0.0214	
47	Total Hepta-Furans				0.8724	10.152	37.60					0.0322	
48	PFM1												
49	PFM2												

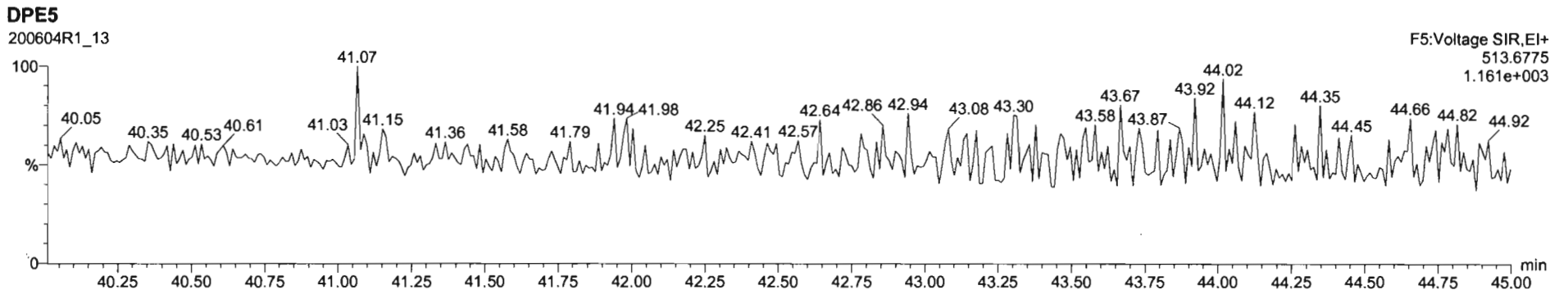
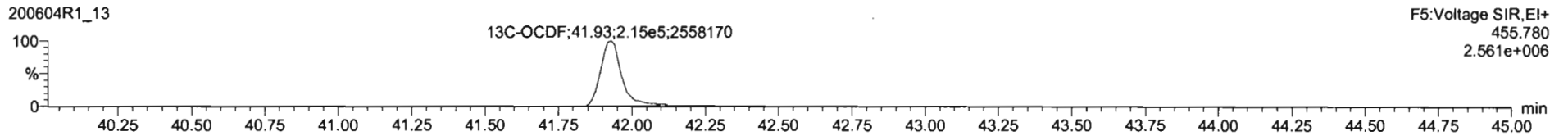
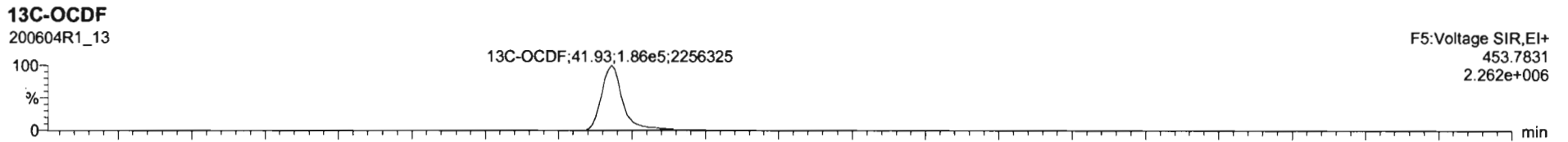
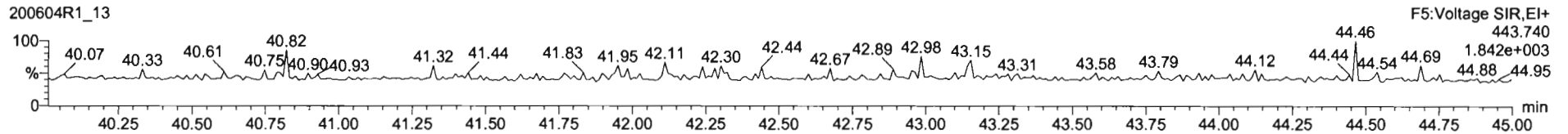
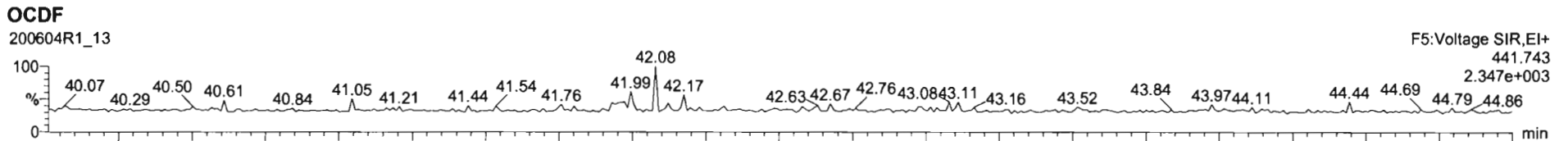
#	Name	RT	nt Resp	nt Resp	RA	rvy	EMPC	Conc
1								



Dataset: Untitled

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

Name: 200604R1\_13, Date: 04-Jun-2020, Time: 17:32:04, ID: B0E0067-DUP1 Duplicate 12.3, Description: Duplicate



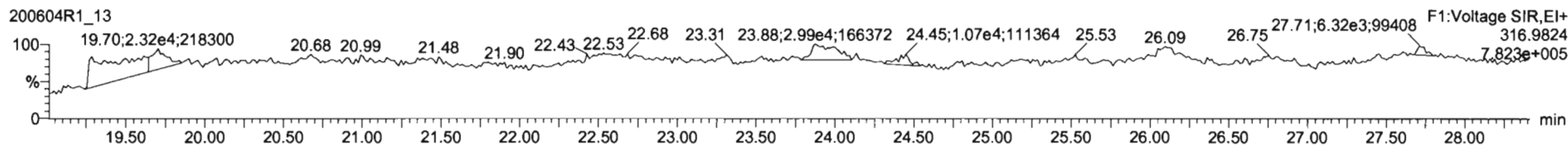
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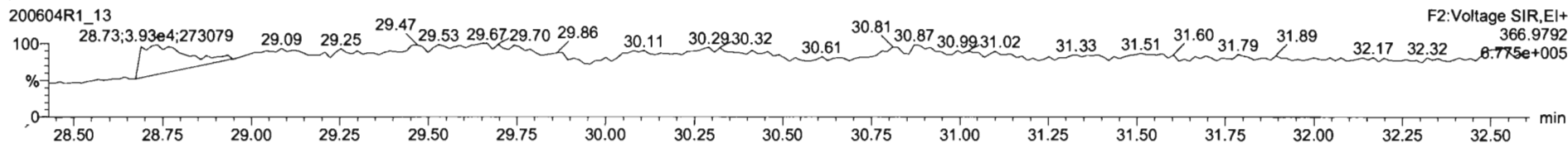
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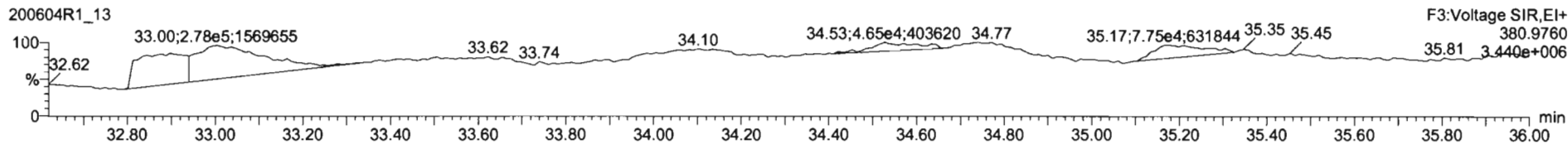
PFK1



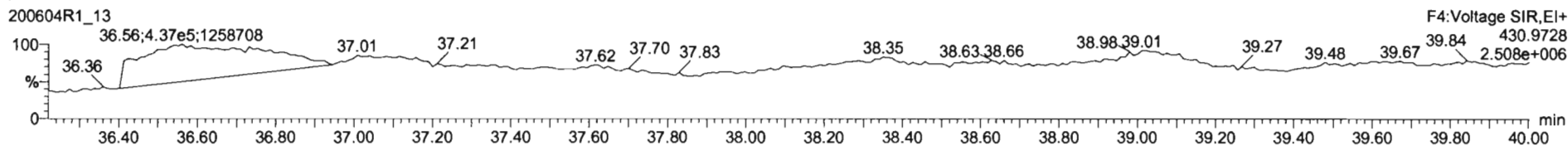
PFK2



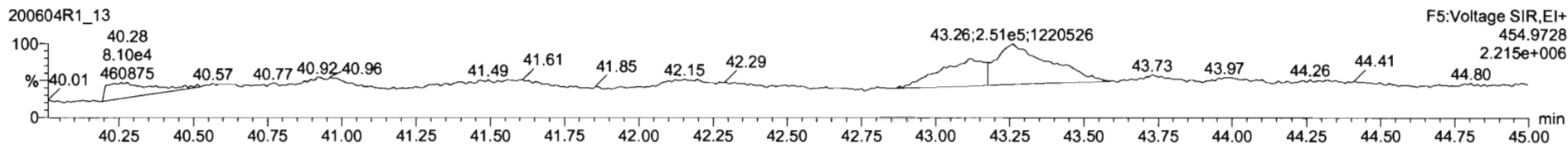
PFK3



PFK4



PFK5





Dataset: U:\VG12.PRO\Results\200604R1\200604R1-14.qld

Last Altered: Tuesday, July 07, 2020 2:53:27 PM Pacific Daylight Time

Printed: Tuesday, July 07, 2020 2:57:00 PM Pacific Daylight Time

*HW 07/07/2020*

*C707/14/2020*

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

Calibration: U:\VG12.PRO\CurveDB\ldb5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1\_14, Date: 04-Jun-2020, Time: 18:18:17, ID: 2000964-09 PDI-148SC-A-07-08-200427 12.68, Description: PDI-148SC-A-07-08-200427

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD												0.0516	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.032	31.473		1.001				0.0773	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.032	34.835		1.000				0.118	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.032	34.932		1.000				0.119	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.032	35.220		1.000				0.144	
6	6 1,2,3,4,6,7,8-HpCDD	1.03e3	0.84	YES	0.864	10.032	38.757	38.73	1.000	1.000	0.82258		0.177	0.737
7	7 OCDD	8.37e3	0.87	NO	0.914	10.032	41.727	41.74	1.000	1.000	7.9579		0.223	7.96
8	8 2,3,7,8-TCDF												0.0323	
9	9 1,2,3,7,8-PeCDF												0.0352	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.032	31.176		1.001				0.0351	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.032	33.941		1.000				0.0490	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.032	34.079		1.000				0.0443	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.032	34.690		1.001				0.0490	
14	14 1,2,3,7,8,9-HxCDF	1.20e2	2.11	YES	0.871	10.032	35.571	35.58	1.000	1.000	0.069917		0.0684	0.0497
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.032	37.376		1.001				0.0682	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.032	39.288		1.000				0.0787	
17	17 OCDF			NO	0.806	10.032	41.919		1.000				0.112	
18	18 13C-2,3,7,8-TCDD	7.68e5	0.76	NO	1.16	10.032	26.522	26.50	1.026	1.026	174.49	87.5	0.216	
19	19 13C-1,2,3,7,8-PeCDD	5.38e5	0.64	NO	0.849	10.032	31.711	31.45	1.227	1.217	166.37	83.5	0.215	
20	20 13C-1,2,3,4,7,8-HxCDD	3.65e5	1.29	NO	0.779	10.032	34.830	34.83	1.014	1.014	163.26	81.9	0.588	
21	21 13C-1,2,3,6,7,8-HxCDD	4.63e5	1.27	NO	1.02	10.032	34.944	34.93	1.017	1.017	158.44	79.5	0.451	
22	22 13C-1,2,3,7,8,9-HxCDD	4.05e5	1.23	NO	0.903	10.032	35.215	35.21	1.025	1.025	155.98	78.2	0.508	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.88e5	1.06	NO	0.689	10.032	38.739	38.74	1.128	1.128	145.60	73.0	0.560	
24	24 13C-OCDD	4.59e5	0.85	NO	0.652	10.032	41.761	41.73	1.216	1.215	244.98	61.4	0.564	
25	25 13C-2,3,7,8-TCDF	9.97e5	0.78	NO	1.06	10.032	25.564	25.60	0.989	0.991	165.59	83.1	0.323	
26	26 13C-1,2,3,7,8-PeCDF	8.43e5	1.58	NO	0.838	10.032	30.093	30.17	1.165	1.168	176.86	88.7	0.471	
27	27 13C-2,3,4,7,8-PeCDF	8.01e5	1.60	NO	0.817	10.032	31.047	31.15	1.202	1.205	172.38	86.5	0.483	
28	28 13C-1,2,3,4,7,8-HxCDF	4.71e5	0.51	NO	1.01	10.032	33.961	33.94	0.989	0.988	162.65	81.6	0.767	
29	29 13C-1,2,3,6,7,8-HxCDF	5.67e5	0.52	NO	1.17	10.032	34.085	34.07	0.992	0.992	168.94	84.7	0.662	
30	30 13C-2,3,4,6,7,8-HxCDF	4.86e5	0.50	NO	1.02	10.032	34.659	34.65	1.009	1.009	165.55	83.0	0.756	
31	31 13C-1,2,3,7,8,9-HxCDF	3.97e5	0.51	NO	0.860	10.032	35.558	35.57	1.035	1.036	160.58	80.5	0.899	



Dataset: U:\VG12.PRO\Results\200604R1\200604R1-14.qld

Last Altered: Tuesday, July 07, 2020 2:53:27 PM Pacific Daylight Time  
Printed: Tuesday, July 07, 2020 2:57:00 PM Pacific Daylight Time

Name: 200604R1\_14, Date: 04-Jun-2020, Time: 18:18:17, ID: 2000964-09 PDI-148SC-A-07-08-200427 12.68, Description: PDI-148SC-A-07-08-200427

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.39e5	0.41	NO	0.774	10.032	37.307	37.34	1.086	1.087	152.14	76.3	0.575	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.25e5	0.42	NO	0.521	10.032	39.336	39.29	1.145	1.144	150.60	75.5	0.855	
34	34 13C-OCDF	5.36e5	0.92	NO	0.746	10.032	41.933	41.92	1.221	1.220	250.28	62.8	0.514	
35	35 37Cl-2,3,7,8-TCDD	3.29e5			1.04	10.032	26.553	26.51	1.028	1.026	83.364	105	0.0714	
36	36 13C-1,2,3,4-TCDD	7.59e5	0.79	NO	1.00	10.032	25.890	25.84	1.000	1.000	199.37	100	0.250	
37	37 13C-1,2,3,4-TCDF	1.13e6	0.79	NO	1.00	10.032	24.360	24.16	1.000	1.000	199.37	100	0.342	
38	38 13C-1,2,3,4,6,9-HxCDF	5.73e5	0.51	NO	1.00	10.032	34.420	34.35	1.000	1.000	199.37	100	0.772	
39	39 Total Tetra-Dioxins				0.888	10.032	24.620		0.000				0.0338	
40	40 Total Penta-Dioxins				0.908	10.032	29.960		0.000		0.00000		0.0288	0.0555
41	41 Total Hexa-Dioxins				0.892	10.032	33.635		0.000		0.61097		0.132	0.611
42	42 Total Hepta-Dioxins				0.864	10.032	37.640		0.000		1.7196		0.177	2.46
43	43 Total Tetra-Furans				0.751	10.032	23.610		0.000				0.0143	
44	44 1st Func. Penta-Furans				0.893	10.032	27.580		0.000				0.00797	
45	45 Total Penta-Furans				0.893	10.032	29.275		0.000		0.00000		0.0150	0.00845
46	46 Total Hexa-Furans				0.934	10.032	33.555		0.000		0.00000		0.0258	0.0497
47	47 Total Hepta-Furans				0.873	10.032	37.835		0.000				0.0316	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-14.qld

Last Altered: Tuesday, July 07, 2020 2:53:27 PM Pacific Daylight Time

Printed: Tuesday, July 07, 2020 2:57:00 PM Pacific Daylight Time

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

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1\_14, Date: 04-Jun-2020, Time: 18:18:17, ID: 2000964-09 PDI-148SC-A-07-08-200427 12.68, Description: PDI-148SC-A-07-08-200427

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
4												

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.73	5.091e3	4.177e3	9.205e1	8.350e1	1.10	YES	0.000e0	0.00000	0.055548	0.0288

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.33	1.108e4	1.289e4	6.050e2	5.187e2	1.17	NO	1.124e3	0.61097	0.61097	0.132

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.73	1.786e4	1.378e4	1.115e3	1.033e3	1.08	NO	2.149e3	1.7196	1.7196	0.177
2	1,2,3,4,6,7,8-HpCDD	38.73	7.217e3	8.531e3	4.693e2	5.585e2	0.84	YES	1.028e3	0.00000	0.73673	0.177

**Tetra-Furans**

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

**Penta-Furans function 1**

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-14.qld

Last Altered: Tuesday, July 07, 2020 2:53:27 PM Pacific Daylight Time

Printed: Tuesday, July 07, 2020 2:57:00 PM Pacific Daylight Time

Name: 200604R1\_14, Date: 04-Jun-2020, Time: 18:18:17, ID: 2000964-09 PDI-148SC-A-07-08-200427 12.68, Description: PDI-148SC-A-07-08-200427

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	31.39	1.216e3	2.322e3	1.889e1	3.552e1	0.53	YES	0.000e0	0.00000	0.00844...	0.0150

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8,9-HxCDF	35.58	1.651e3	9.550e2	8.110e1	3.845e1	2.11	YES	1.195e2	0.00000	0.049726	0.0384

**Hepta-Furans**

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

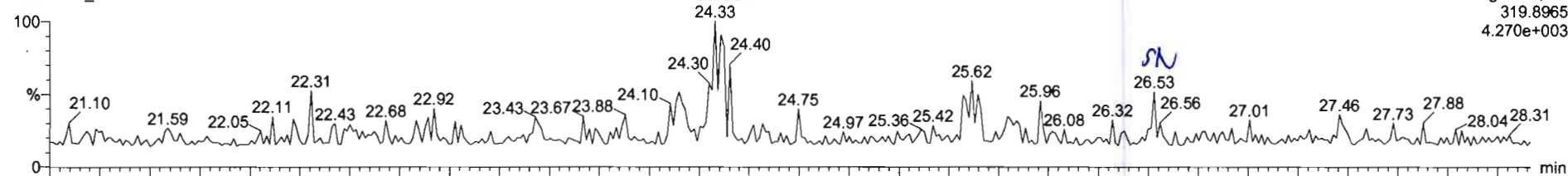
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Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

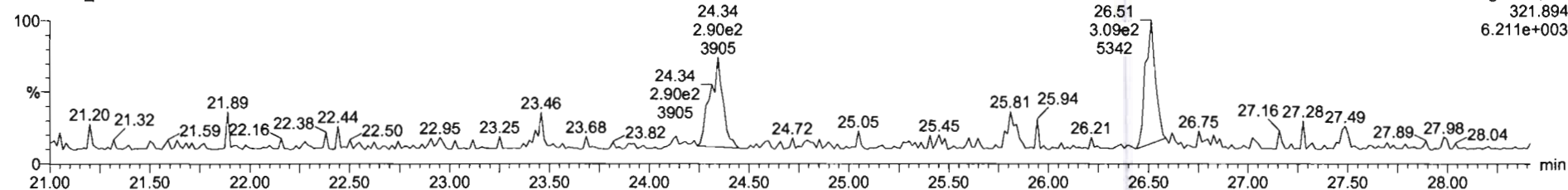
Name: 200604R1\_14, Date: 04-Jun-2020, Time: 18:18:17, ID: 2000964-09 PDI-148SC-A-07-08-200427 12.68, Description: PDI-148SC-A-07-08-200427

2,3,7,8-TCDD

200604R1\_14

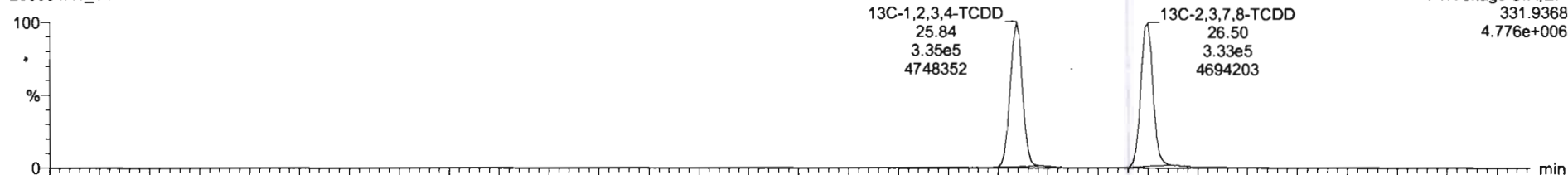


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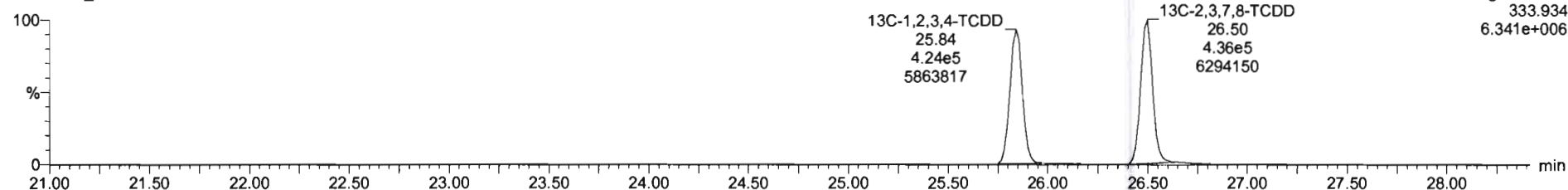


13C-2,3,7,8-TCDD

200604R1\_14



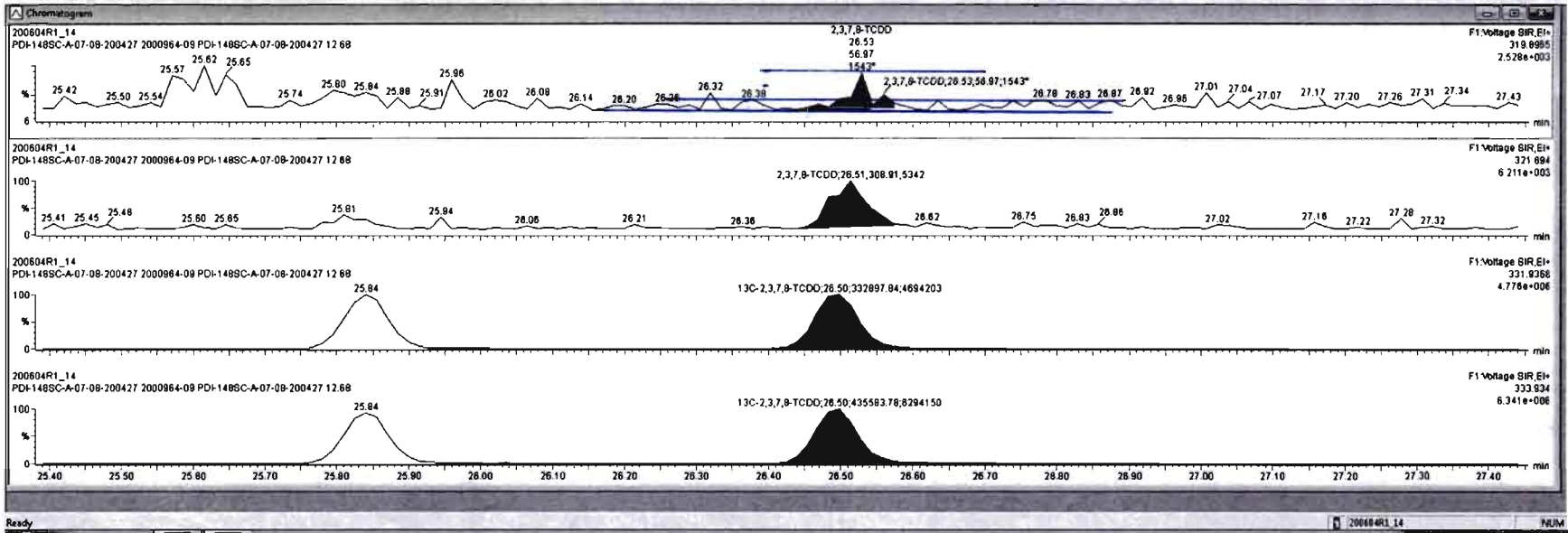
200604R1\_14



Targetlyn - 200604R1-14.qtd  
 File Edit View Display Processing Window Help

#	Name	Resp	RA	n/y	RF	wtAver	RT	RHT	Conc	%Rec	DL	EMPC
39	Total Tetre-Dioxins				0.8993	10.032			0.000		0.0208	0.175
40	Total Penta-Dioxins				0.8061	10.032					0.0288	
41	Total Hexa-Dioxins				0.8923	10.032			0.539		0.132	0.639
42	Total Hepta-Dioxins				0.8636	10.032			1.72		0.177	2.16
43	Total Tetre-Furans				0.7510	10.032					0.0143	
44	1st Furan, Penta-Furans				0.8825	10.032					0.00797	
45	Total Penta-Furans				0.8825	10.032					0.0150	
46	Total Hexa-Furans				0.8341	10.032					0.0258	
47	Total Hepta-Furans				0.8734	10.032					0.0316	
48	PFY1											

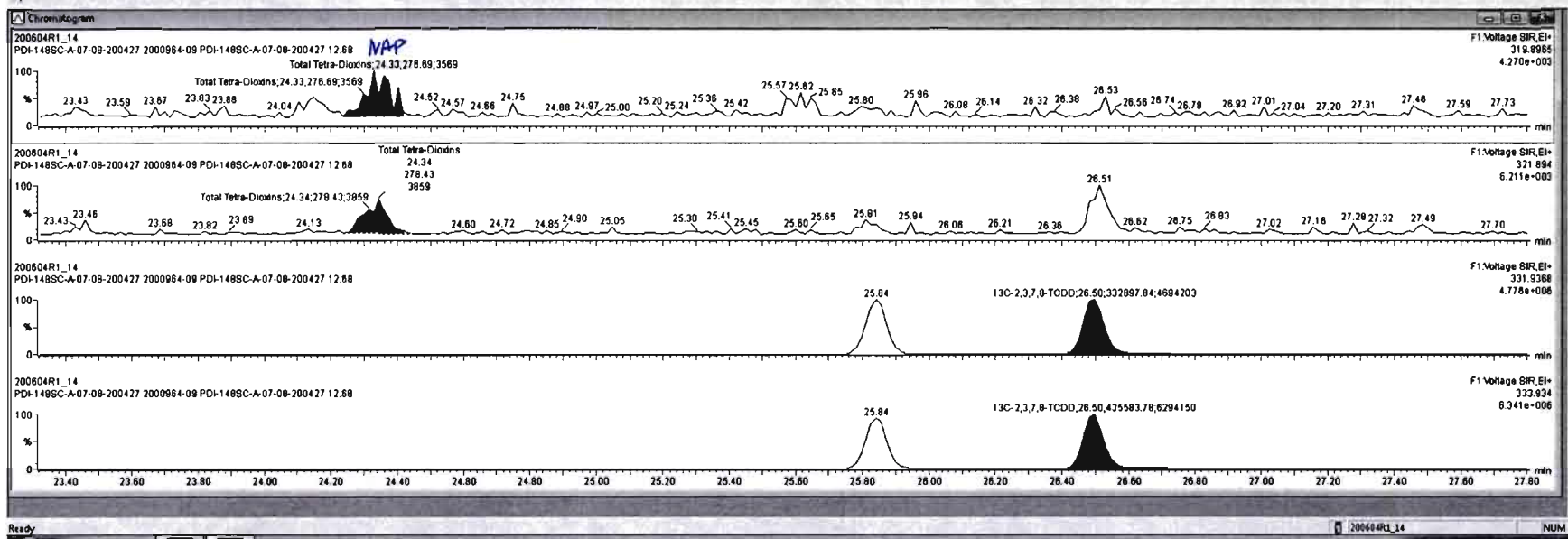
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Tetre-Dioxins	24.33	2.767e2	2.784e2	0.99	YES	0.14393	0.00000
2	2,3,7,8-TCDD	26.53	4.675e1	3.089e2	0.15	YES	0.031387	0.00000





Name	Resp	PLA	n/y	IRF	VolVol	RT	IRY	Conc	%Rec	DL	BMP
39 Total Tetra-Dioxins				0.8983	10.032			0.000		0.0338	0.144
40 Total Penta-Dioxins				0.9091	10.032					0.0285	
41 Total Hexa-Dioxins				0.8923	10.032			0.639		0.132	0.639
42 Total Hepta-Dioxins				0.8628	10.032			1.72		0.177	2.15
43 Total Tetra-Furans				0.7510	10.032					0.0143	
44 1st Func. Penta-Furans				0.8925	10.032					0.00797	
45 Total Penta-Furans				0.8925	10.032					0.0150	
46 Total Hexa-Furans				0.8341	10.032					0.0258	
47 Total Hepta-Furans				0.8734	10.032					0.0316	
48 PFK1											

Name	RT	ml Resp	ml2 Resp	RA	n/y	BMP	Conc.
1 Total Tetra-Dioxins	24.33	2.787e2	2.784e2	0.99	YES	0.14393	0.00000





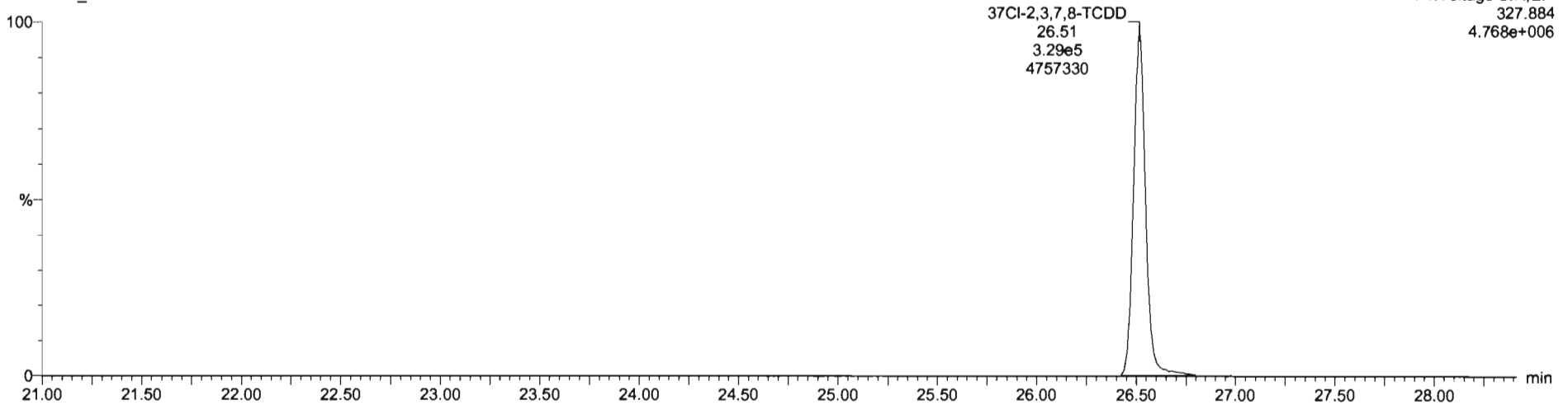
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_14, Date: 04-Jun-2020, Time: 18:18:17, ID: 2000964-09 PDI-148SC-A-07-08-200427 12.68, Description: PDI-148SC-A-07-08-200427

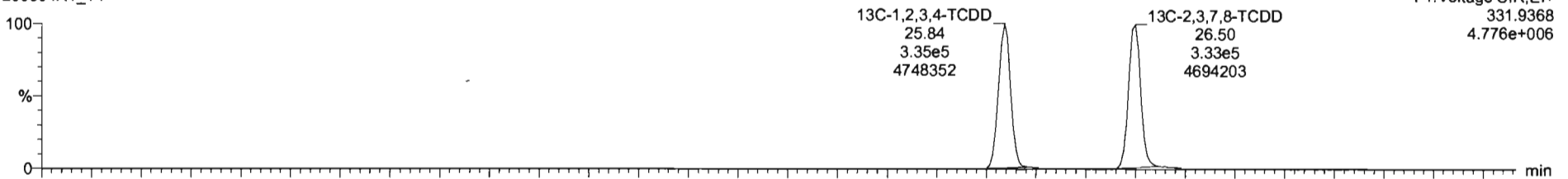
**37Cl-2,3,7,8-TCDD**

200604R1\_14

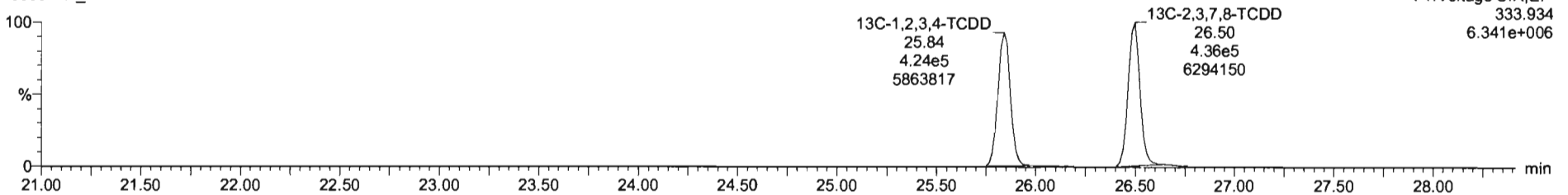


**13C-1,2,3,4-TCDD**

200604R1\_14



200604R1\_14



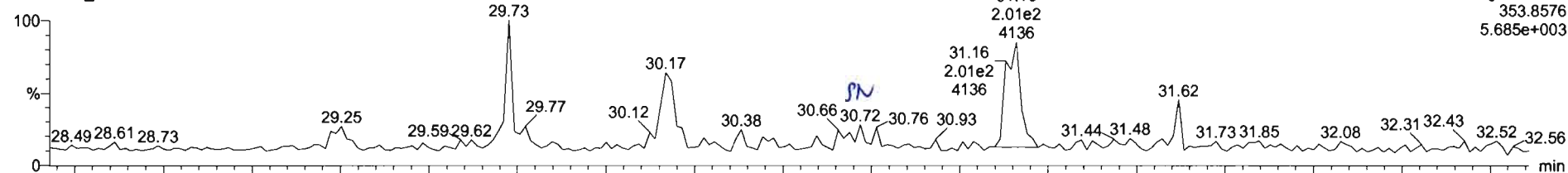
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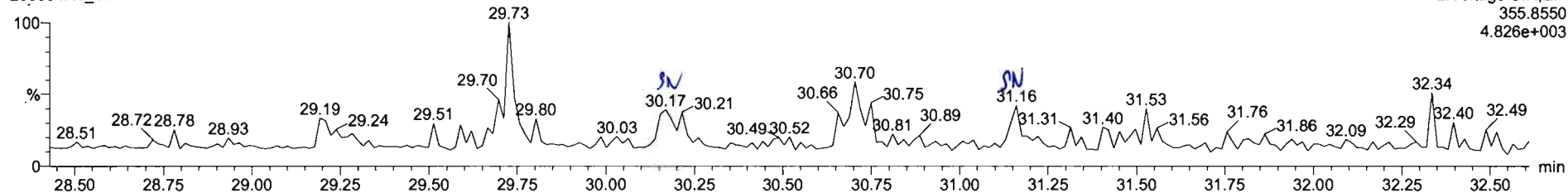
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1,2,3,7,8-PeCDD

200604R1\_14

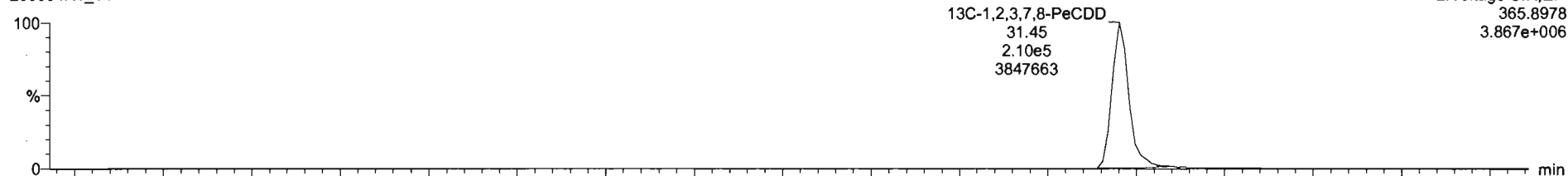


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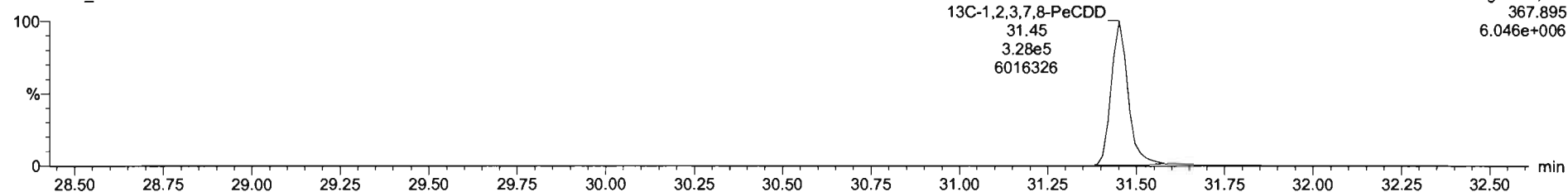


13C-1,2,3,7,8-PeCDD

200604R1\_14

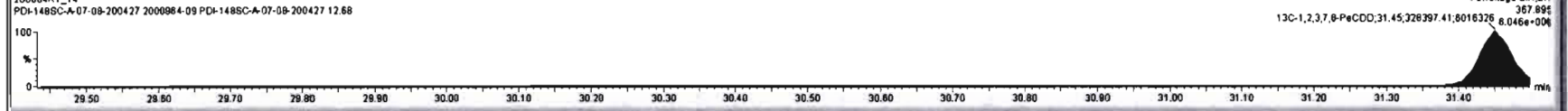
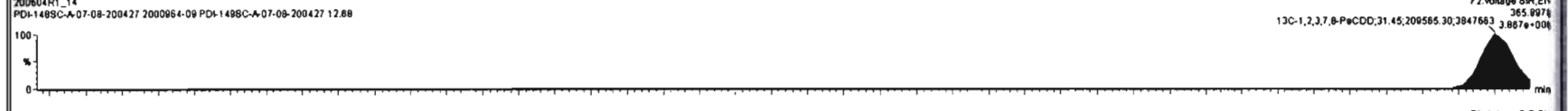
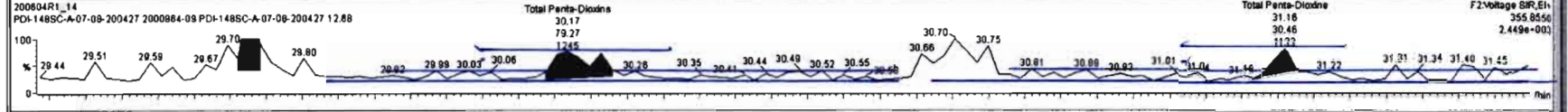
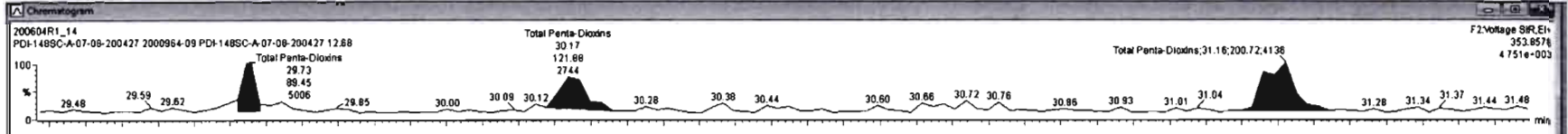


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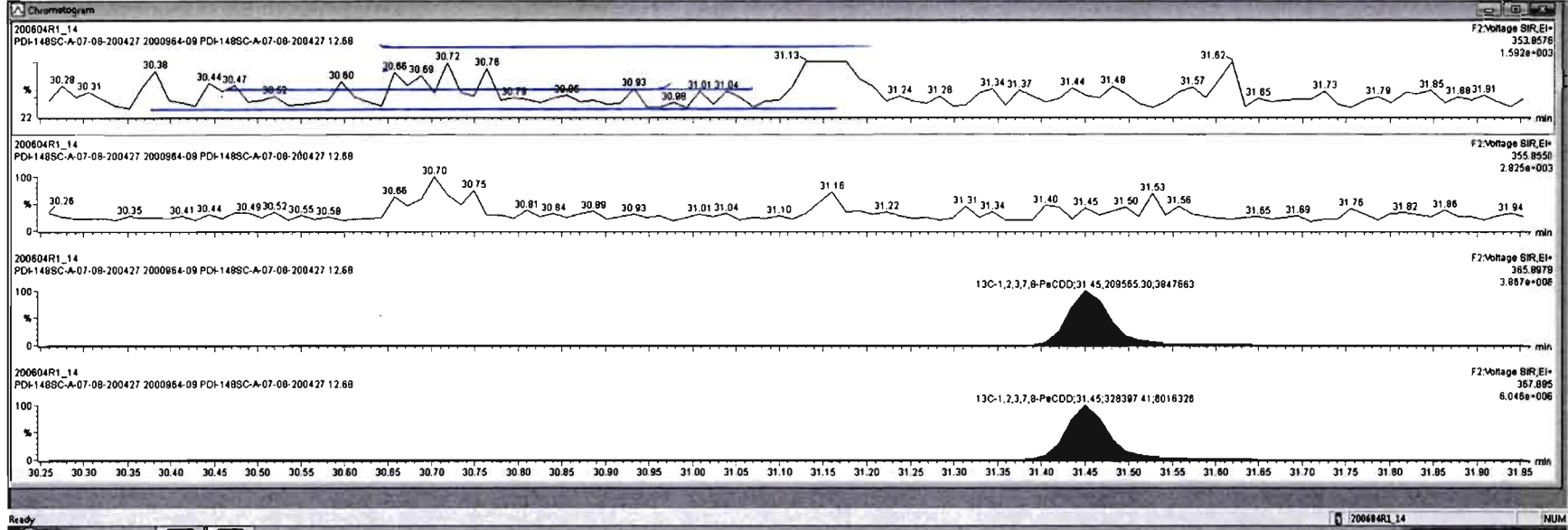
ID	Name	Resp	RA	rvy	RF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8983	10.032			0.000	0.0336	0.144	
40	Total Penta-Dioxins				0.8081	10.032			0.000	0.0269	0.121	
41	Total Hexa-Dioxins				0.8923	10.032			0.639	0.132	0.639	
42	Total Hepta-Dioxins				0.8638	10.032			1.72	0.177	2.16	
43	Total Tetra-Furans				0.7510	10.032				0.0143		
44	1st Func. Penta-Furans				0.8825	10.032				0.02797		
45	Total Penta-Furans				0.8825	10.032				0.0150		
46	Total Hexa-Furans				0.8341	10.032				0.0256		
47	Total Hepta-Furans				0.8734	10.032				0.0316		
48	HFx1											

ID	Name	RT	mt Resp	st Resp	RA	rvy	EMPC	Conc
1	Total Penta-Dioxins	31.16	2.007e2	3.048e1	6.59	YES	0.020260	0.00000
2	Total Penta-Dioxins	30.17	1.219e2	7.827e1	1.54	YES	0.052729	0.00000
3	Total Penta-Dioxins	29.73	8.845e1	7.250e1	1.23	YES	0.048227	0.00000



Mass	Resp	RA	n/y	RF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins			0.0063	10.032			0.000	0.0339	0.144	
40	Total Penta-Dioxins			0.0051	10.032			0.000	0.0269	0.0850	
41	Total Hexa-Dioxins			0.0023	10.032			0.000	0.132	0.639	
42	Total Hepta-Dioxins			0.0039	10.032			1.72	0.177	2.18	
43	Total Tetra-Furans			0.7510	10.032				0.0143		
44	1st Func. Penta-Furans			0.0025	10.032				0.00787		
45	Total Penta-Furans			0.0025	10.032				0.0150		
46	Total Hexa-Furans			0.0341	10.032				0.0258		
47	Total Hepta-Furans			0.0734	10.032				0.0318		
48	PFK1										

Mass	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Penta-Dioxins	29.73	9.205e1	8.350e1	1.10	YES	0.055548 0.00000



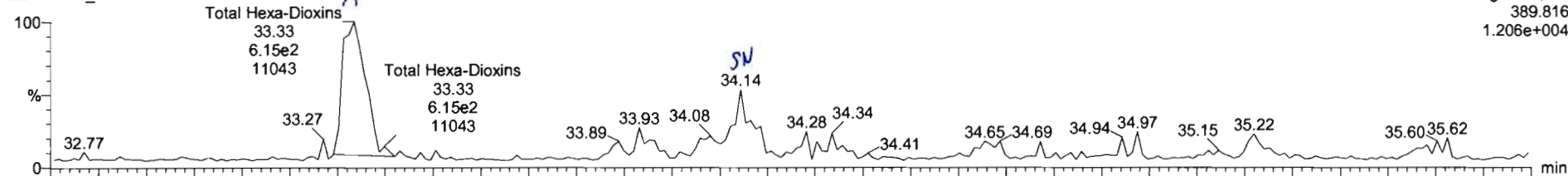
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

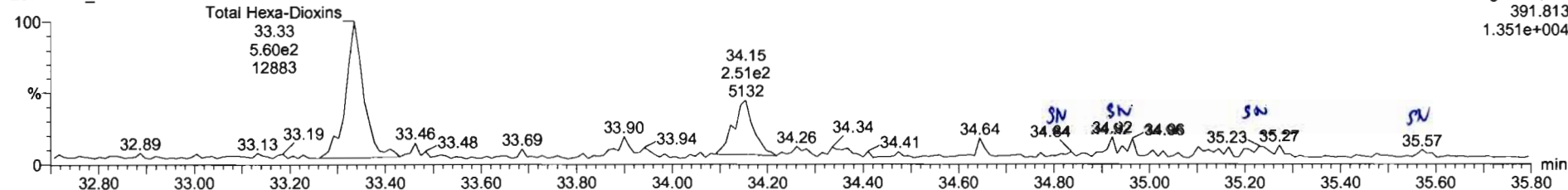
Name: 200604R1\_14, Date: 04-Jun-2020, Time: 18:18:17, ID: 2000964-09 PDI-148SC-A-07-08-200427 12.68, Description: PDI-148SC-A-07-08-200427

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

200604R1\_14

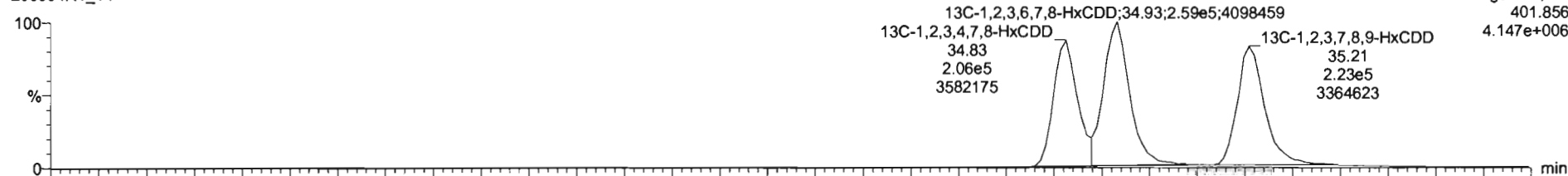


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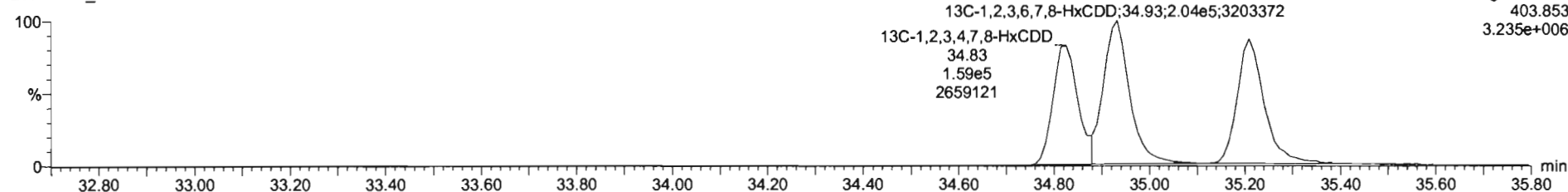


13C-1,2,3,4,7,8-HxCDD

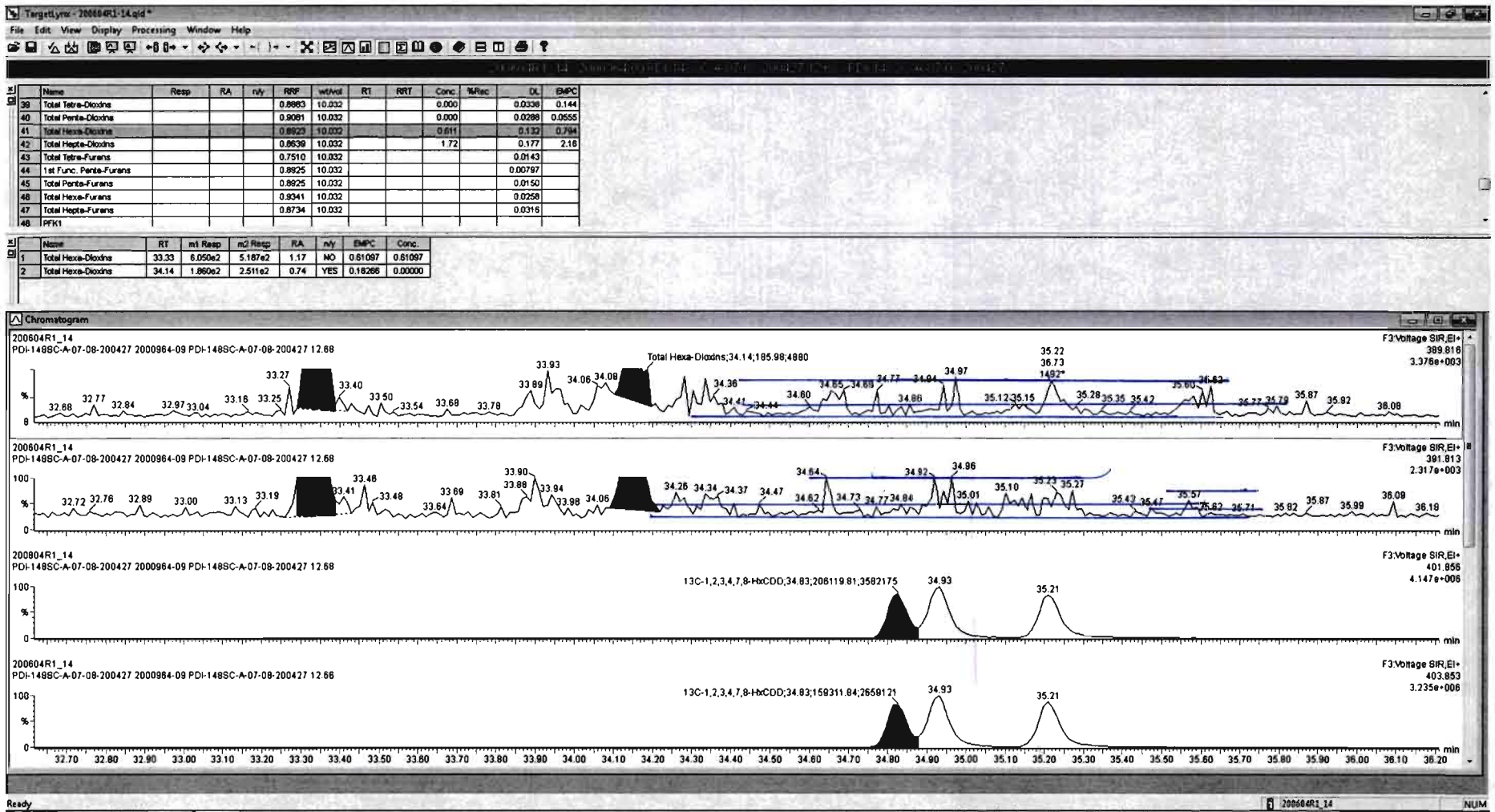
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200604R1\_14



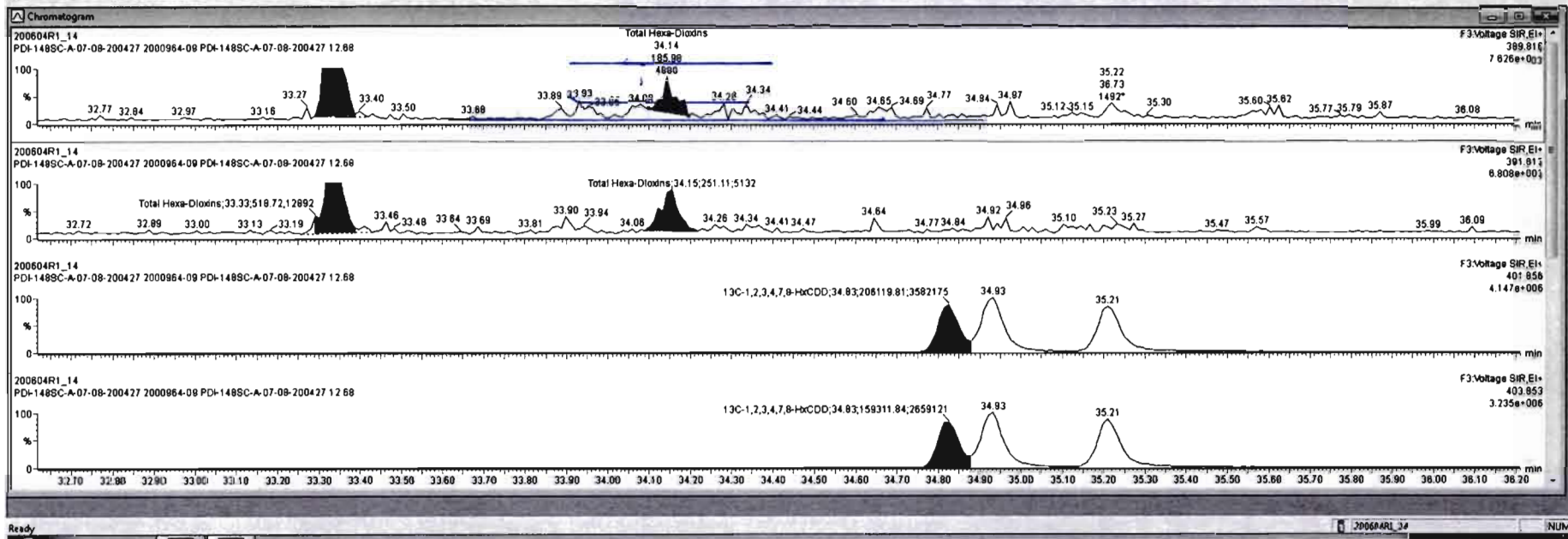






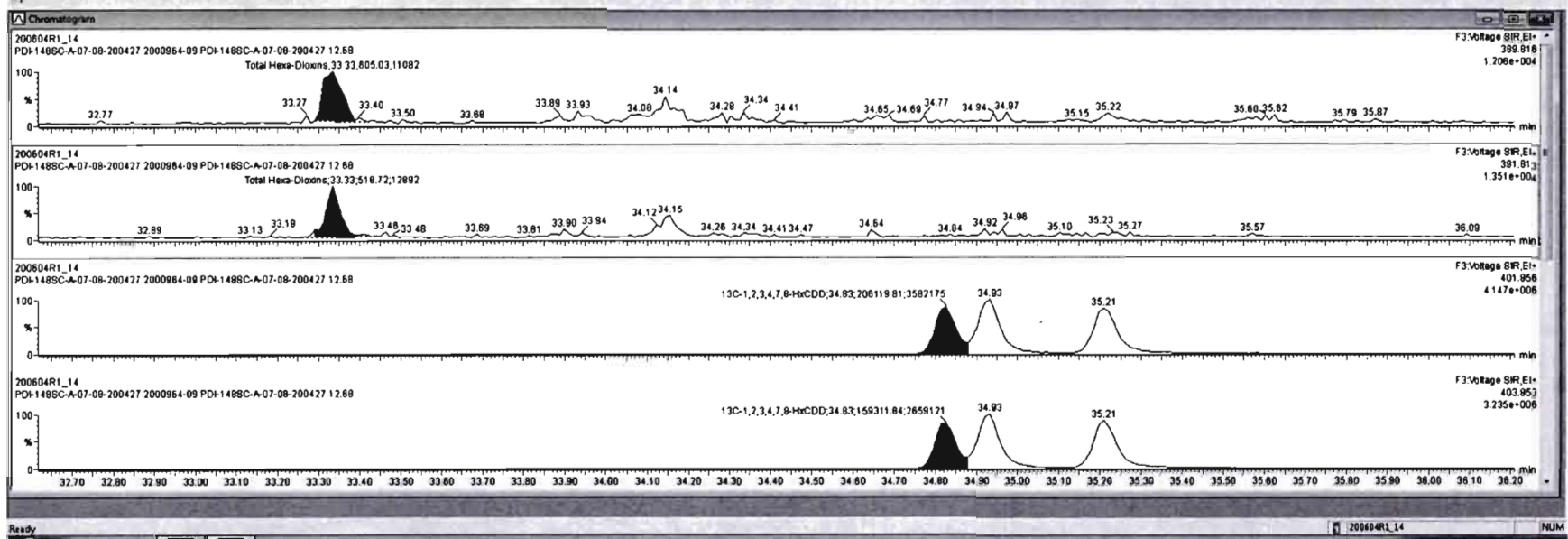
#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9983	10.032			0.000	0.0338	0.144	
40	Total Penta-Dioxins				0.9091	10.032			0.000	0.0288	0.0555	
41	Total Hexa-Dioxins				0.8923	10.032			0.811	0.132	0.794	
42	Total Hepta-Dioxins				0.8639	10.032			1.72	0.177	2.16	
43	Total Tetra-Furans				0.7510	10.032				0.0143		
44	1st Func. Penta-Furans				0.8925	10.032				0.00797		
45	Total Penta-Furans				0.8925	10.032				0.0150		
46	Total Hexa-Furans				0.9341	10.032				0.0258		
47	Total Hepta-Furans				0.8734	10.032				0.0316		
48	DPX1											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxins	33.33	6.050e2	5.197e2	1.17	NO	0.61097	0.81097
2	Total Hexa-Dioxins	34.14	1.860e2	2.511e2	0.74	YES	0.18288	0.00000



#	Name	Resp	RA	n/y	RRF	wtAveI	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8983	10.032			0.000	0.0330	0.144	
40	Total Penta-Dioxins				0.9081	10.032			0.000	0.0286	0.0555	
41	Total Hexa-Dioxins				0.8923	10.032			0.811	0.132	0.811	
42	Total Hepta-Dioxins				0.8929	10.032			1.72	0.177	2.16	
43	Total Tetra-Furans				0.7510	10.032				0.0143		
44	1st Func. Penta-Furans				0.8925	10.032				0.00797		
45	Total Penta-Furans				0.8925	10.032				0.0150		
46	Total Hexa-Furans				0.8241	10.032				0.0258		
47	Total Hepta-Furans				0.8734	10.032				0.0318		
48	PPY1											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Dioxins	33.33	6.050e2	5.187e2	1.17	NO	0.61097	0.81087



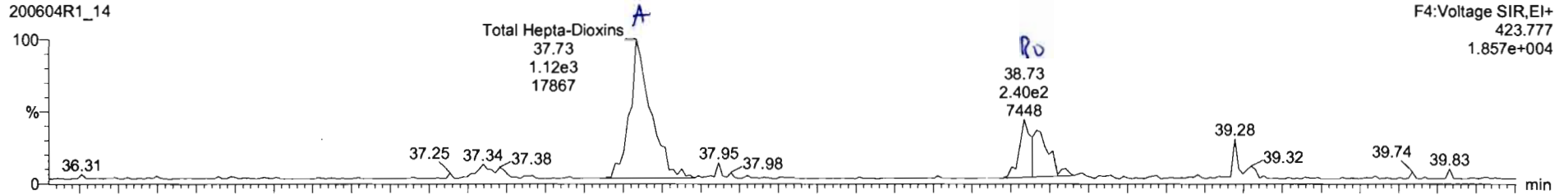
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Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

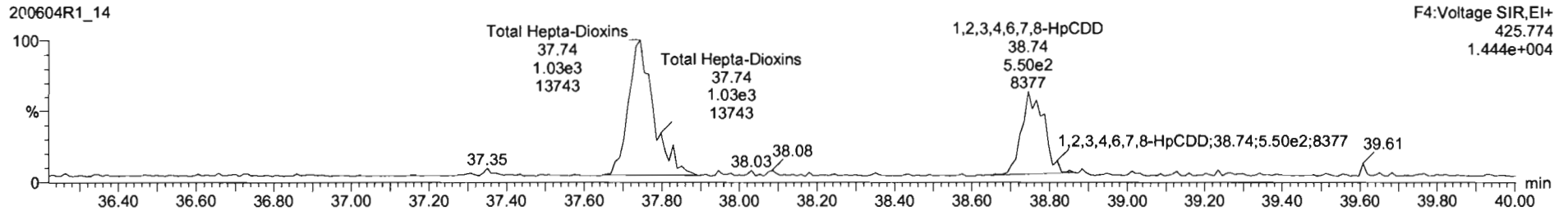
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**1,2,3,4,6,7,8-HpCDD**

200604R1\_14

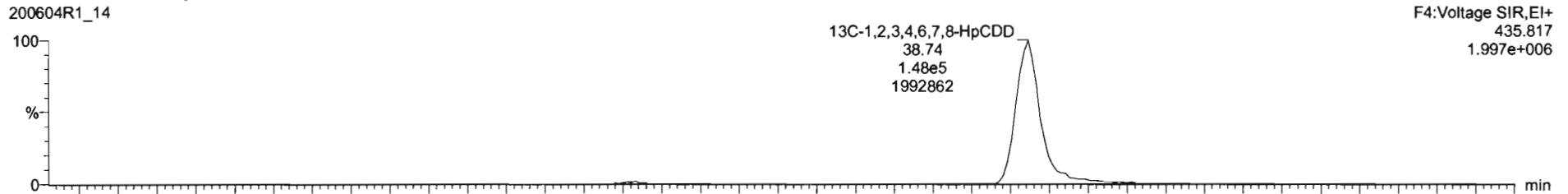


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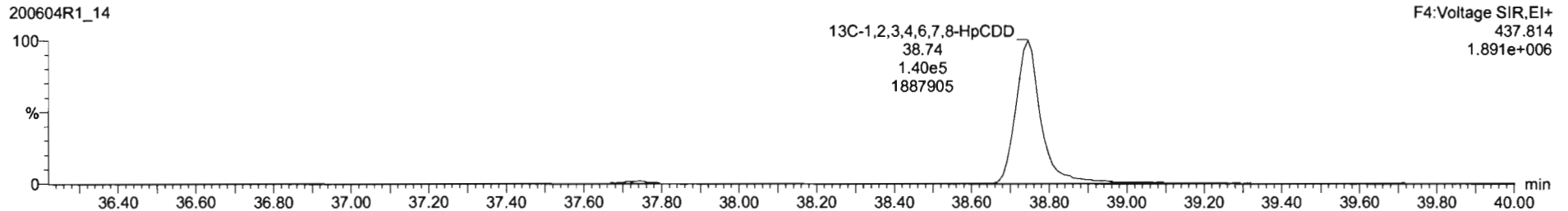


**13C-1,2,3,4,6,7,8-HpCDD**

200604R1\_14

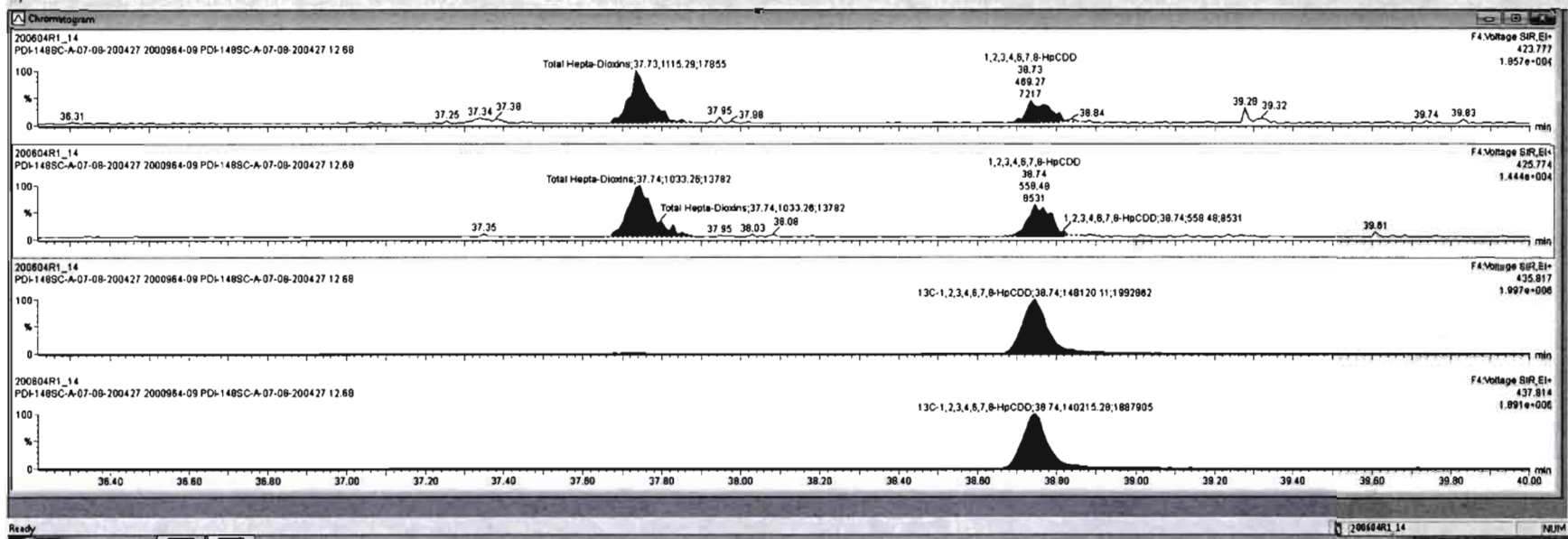


200604R1\_14



#	Name	Resp	RA	nly	RFI	wtAvr	RT	RRT	Conc.	%Rep	DL	BMP
39	Total Tetra-Dioxins				0.8983	10.032			0.000		0.0339	0.144
40	Total Penta-Dioxins				0.9081	10.032			0.000		0.0269	0.0550
41	Total Hexa-Dioxins				0.8923	10.032			0.811		0.132	0.811
42	Total Hepta-Dioxins				0.8828	10.032			1.72		0.177	2.48
43	Total Tetra-Furans				0.7510	10.032					0.0143	
44	1st Func. Furans-Furans				0.8825	10.032					0.00797	
45	Total Penta-Furans				0.8825	10.032					0.0150	
46	Total Hexa-Furans				0.8341	10.032					0.0258	
47	Total Hepta-Furans				0.8734	10.032					0.0316	
48	PFX1											

#	Name	RT	m1 Resp	m2 Resp	RA	nly	BMP	Conc.
1	Total Hepta-Dioxins	37.73	1.115e3	1.033e3	1.08	NO	1.7196	1.7196
2	1,2,3,4,6,7,8-HpCDD	38.73	4.693e2	5.585e2	0.94	YES	0.73673	0.00000

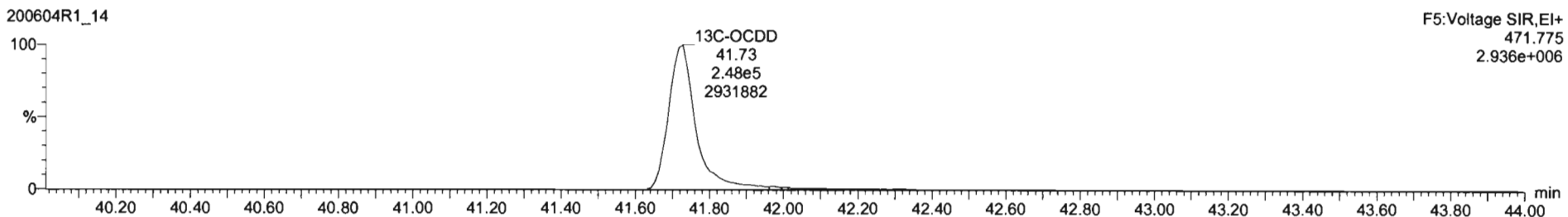
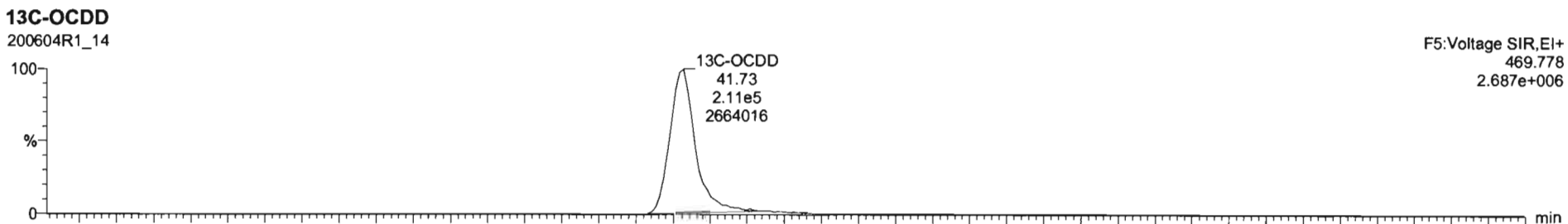
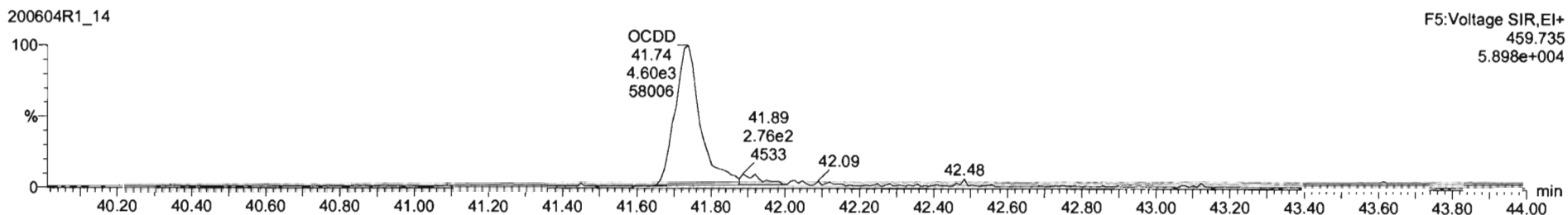
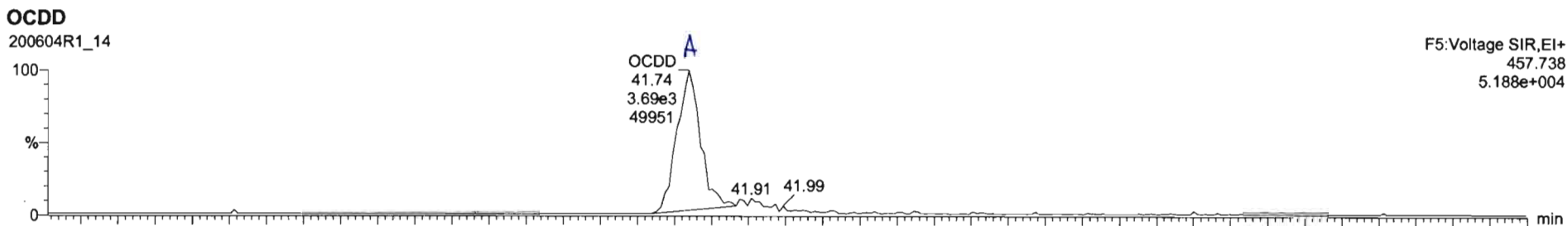




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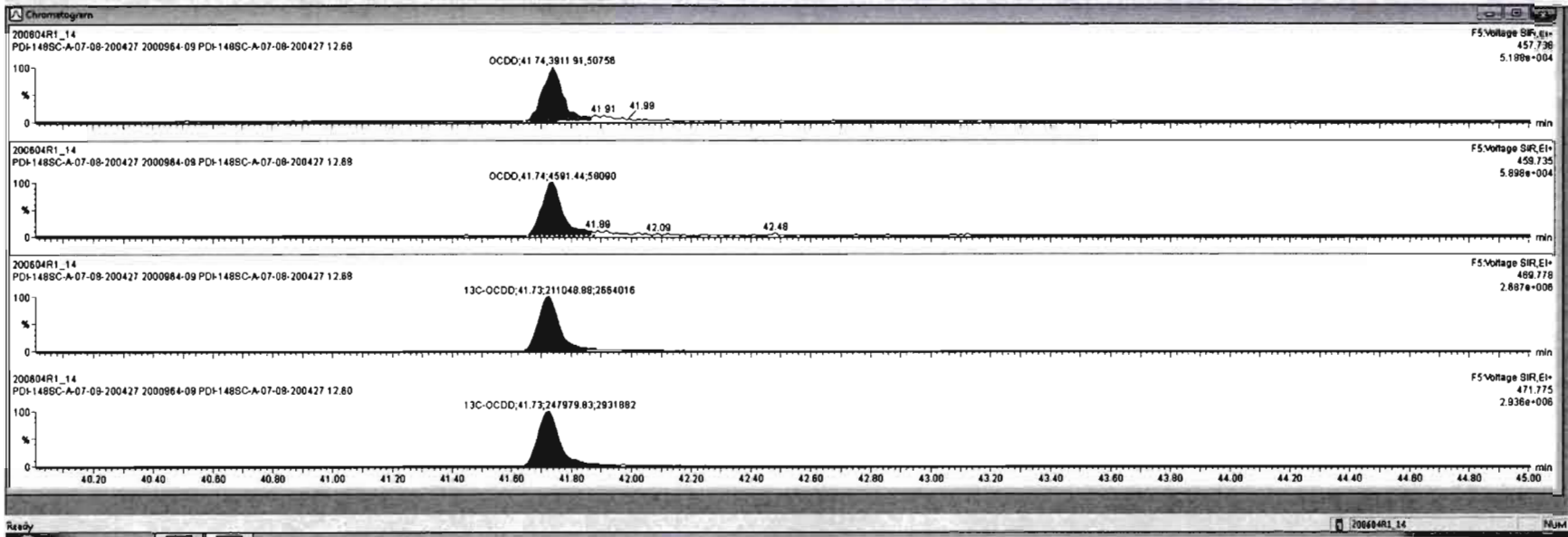
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Name: 200604R1\_14, Date: 04-Jun-2020, Time: 18:18:17, ID: 2000964-09 PDI-148SC-A-07-08-200427 12.68, Description: PDI-148SC-A-07-08-200427



#	Name	Resp	RA	n/y	RFV	wtAval	RT	RPT	Conc.	%Rec	DA	EMPC
7	OCDD	8.50e3	0.65	NO	0.9136	10.032	41.74	1.000	8.08		0.223	8.08
8	2,3,7,8-TCDF			NO	0.7510	10.032					0.0323	
9	1,2,3,7,8-PeCDF											
10	2,3,4,7,8-PeCDF			NO	0.9348	10.032					0.0351	
11	1,2,3,4,7,8-HxCDF			NO	0.8845	10.032					0.0490	
12	1,2,3,6,7,8-HxCDF			NO	0.8897	10.032					0.0443	
13	2,3,4,6,7,8-HxCDF			NO	0.9341	10.032					0.0490	
14	1,2,3,7,8,9-HxCDF			NO	0.8707	10.032					0.0753	
15	1,2,3,4,6,7,8-HxCDF			NO	0.8734	10.032					0.0682	
16	1,2,3,4,7,8,9-HxCDF			NO	1.0128	10.032					0.0787	

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





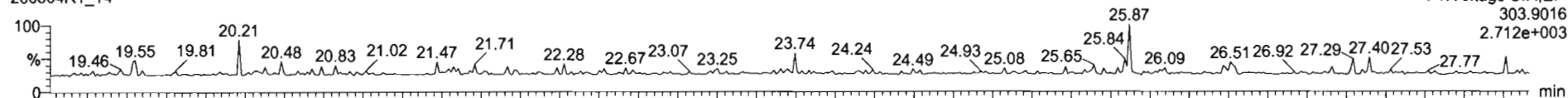
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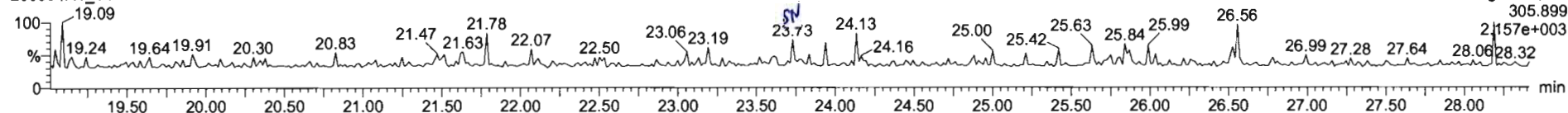
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**2,3,7,8-TCDF**

200604R1\_14

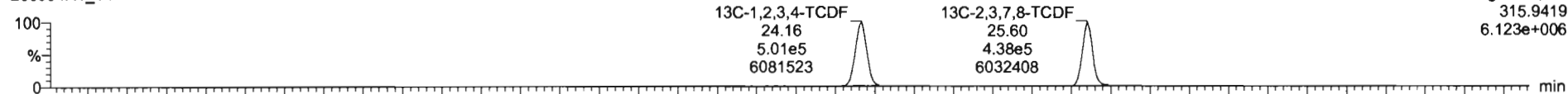


200604R1\_14

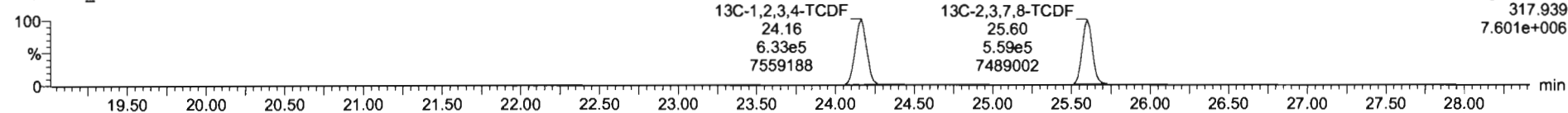


**13C-2,3,7,8-TCDF**

200604R1\_14

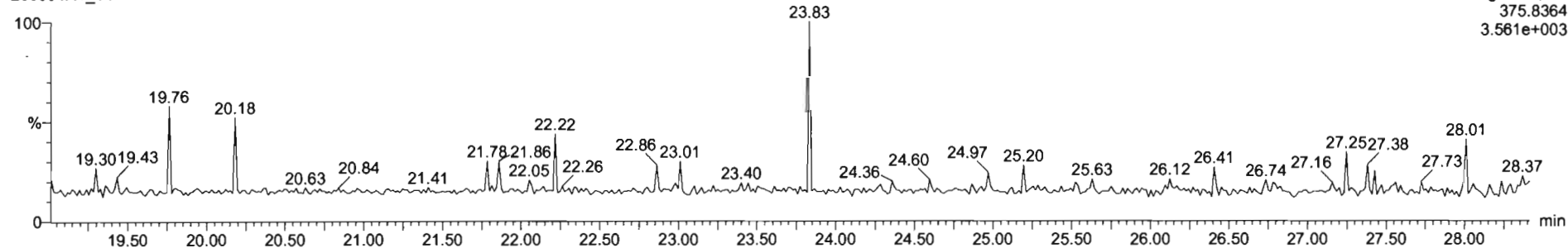


200604R1\_14



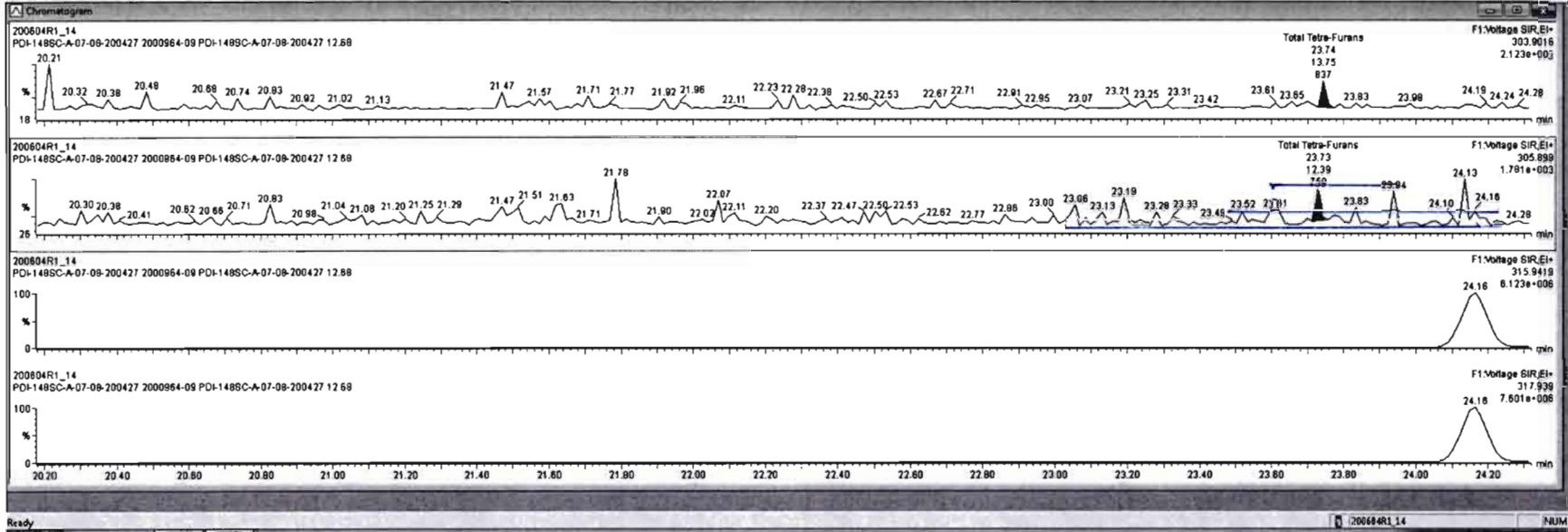
**DPE1**

200604R1\_14



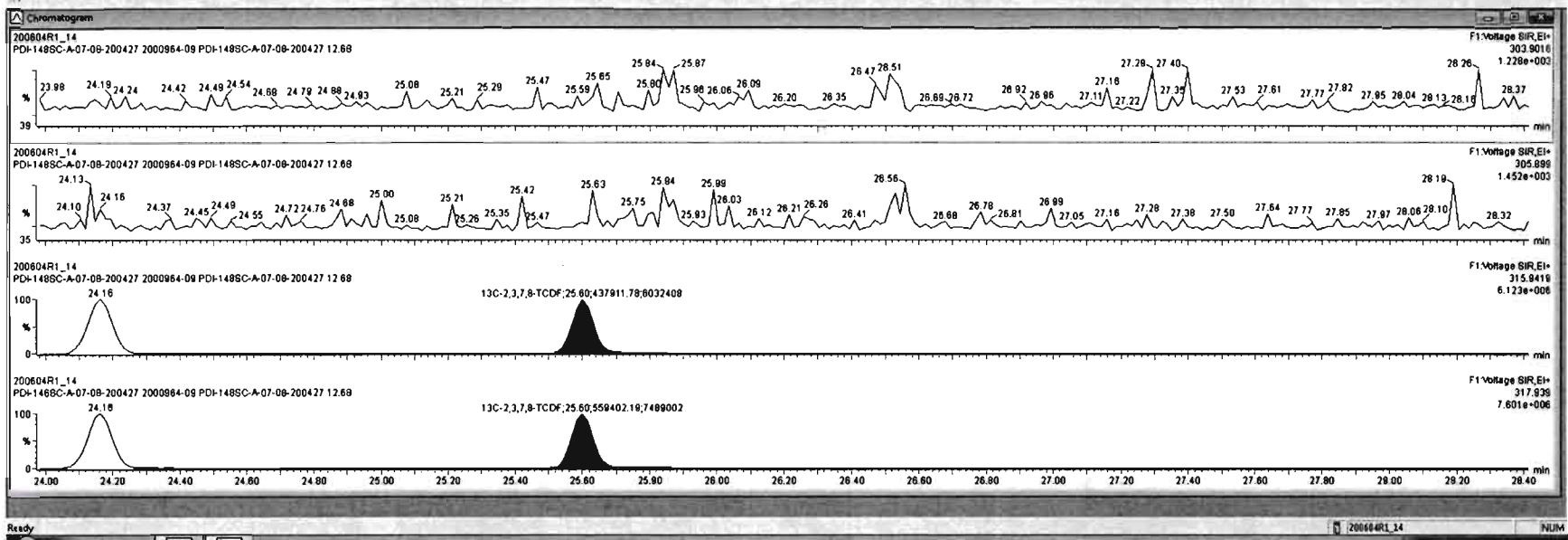
SI	Name	Resp	RA	nNy	RNF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7619	10.032			0.000	0.0143	0.00084	
44	1st Func. Penta-Furans				0.8625	10.032				0.00787		
45	Total Penta-Furans				0.8625	10.032				0.0150		
46	Total Hexa-Furans				0.9341	10.032				0.0258		
47	Total Hepta-Furans				0.8734	10.032				0.0316		
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											

SI	Name	RT	m1 Resp	m2 Resp	RA	nNy	EMPC	Conc.
1	Total Tetra-Furans	23.74	1.375e1	1.239e1	1.11	YES	0.00683	0.00000



Name	Resp	RA	rly	RF	VolVol	RT	RET	Conc	%Rec	DL	EMPC
43 Total Tetra-Furens				0.7510	10.032			0.000		0.0343	0.00284
44 1st Furens-Penta-Furens				0.8925	10.032					0.00797	
45 Total Penta-Furens				0.8925	10.032					0.0150	
46 Total Hexa-Furens				0.9241	10.032					0.0259	
47 Total Hepta-Furens				0.8734	10.032					0.0316	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											

Name	RT	m1 Resp	m2 Resp	RA	rly	EMPC	Conc
1 Total Tetra-Furens	23.74	1.375e1	1.238e1	1.11	YES	0.00563	0.00000



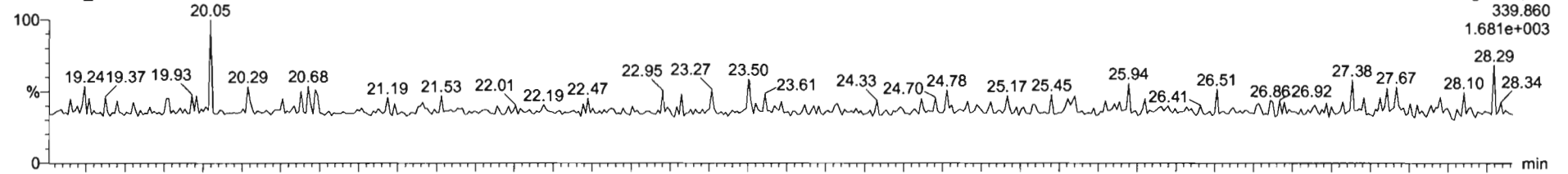
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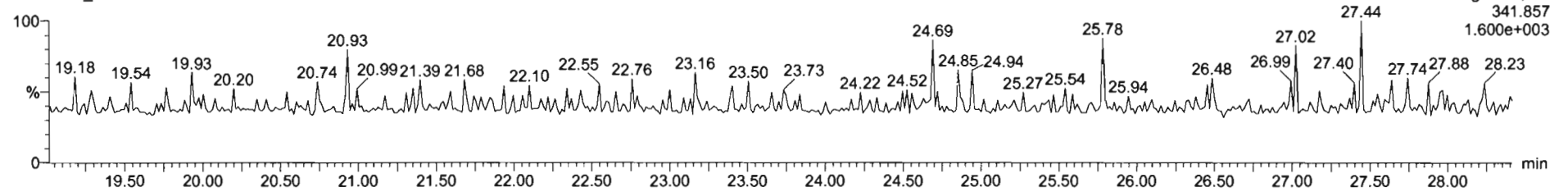
Name: 200604R1\_14, Date: 04-Jun-2020, Time: 18:18:17, ID: 2000964-09 PDI-148SC-A-07-08-200427 12.68, Description: PDI-148SC-A-07-08-200427

1st Func. Penta-Furans

200604R1\_14

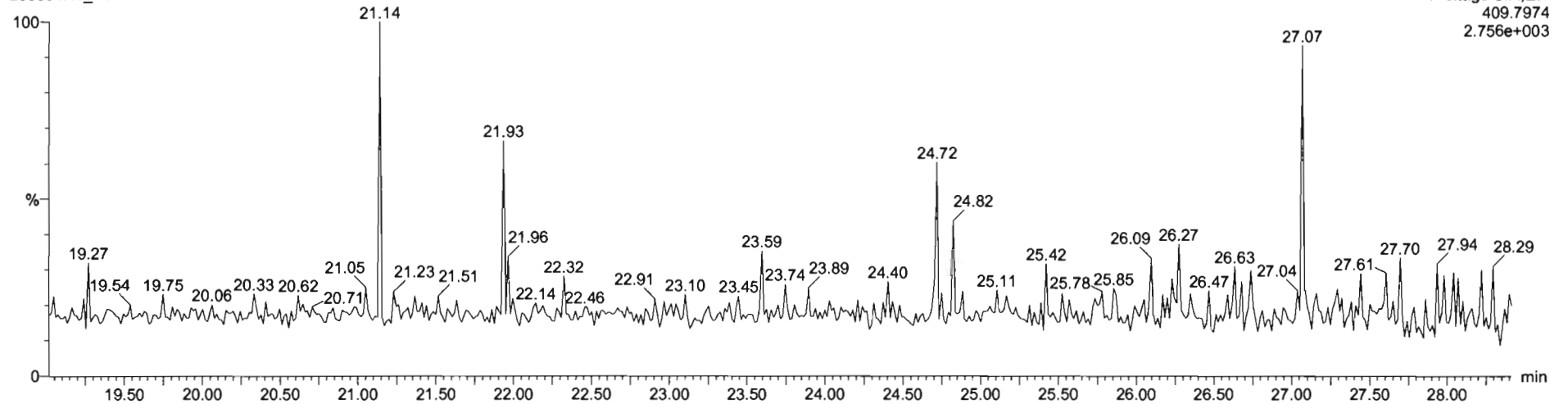


200604R1\_14



DPE6

200604R1\_14



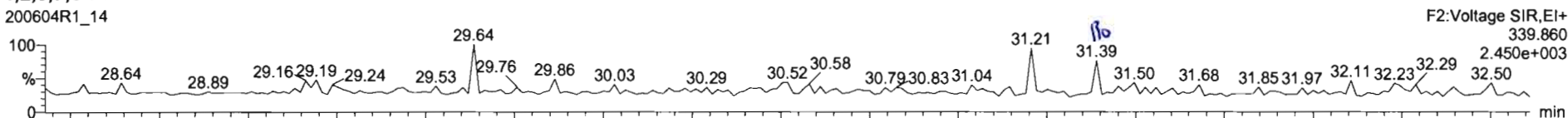
Dataset: Untitled

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

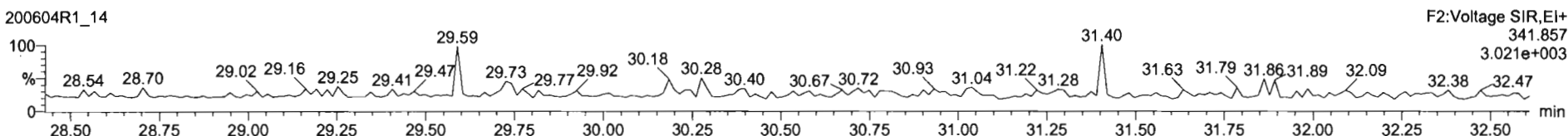
Name: 200604R1\_14, Date: 04-Jun-2020, Time: 18:18:17, ID: 2000964-09 PDI-148SC-A-07-08-200427 12.68, Description: PDI-148SC-A-07-08-200427

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

200604R1\_14

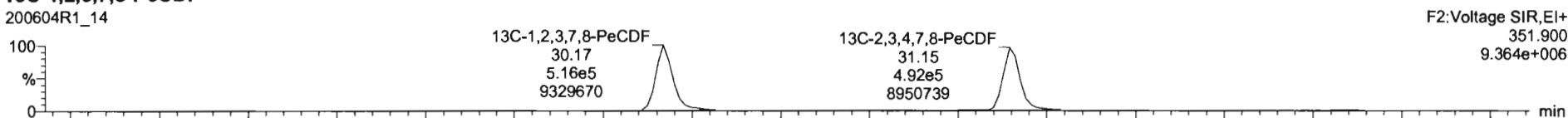


200604R1\_14

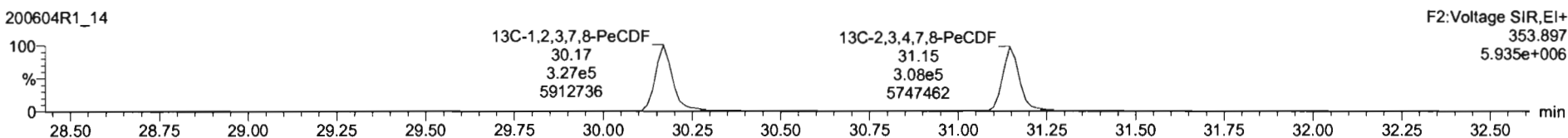


**13C-1,2,3,7,8-PeCDF**

200604R1\_14

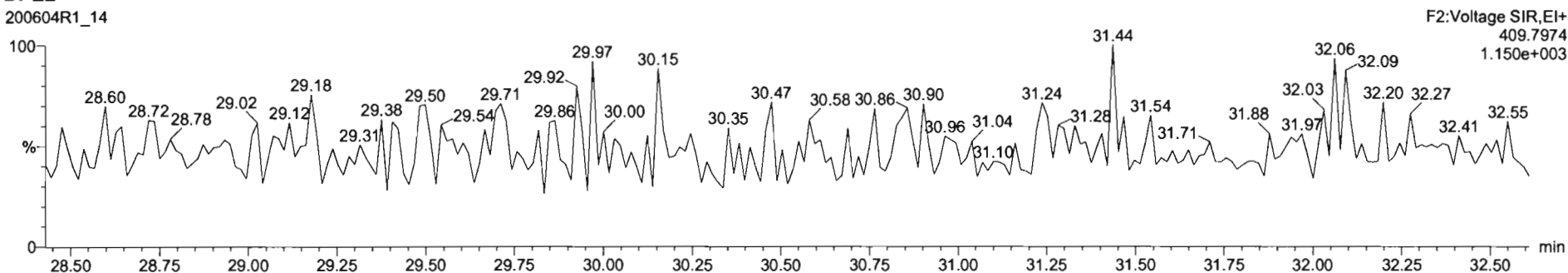


200604R1\_14



**DPE2**

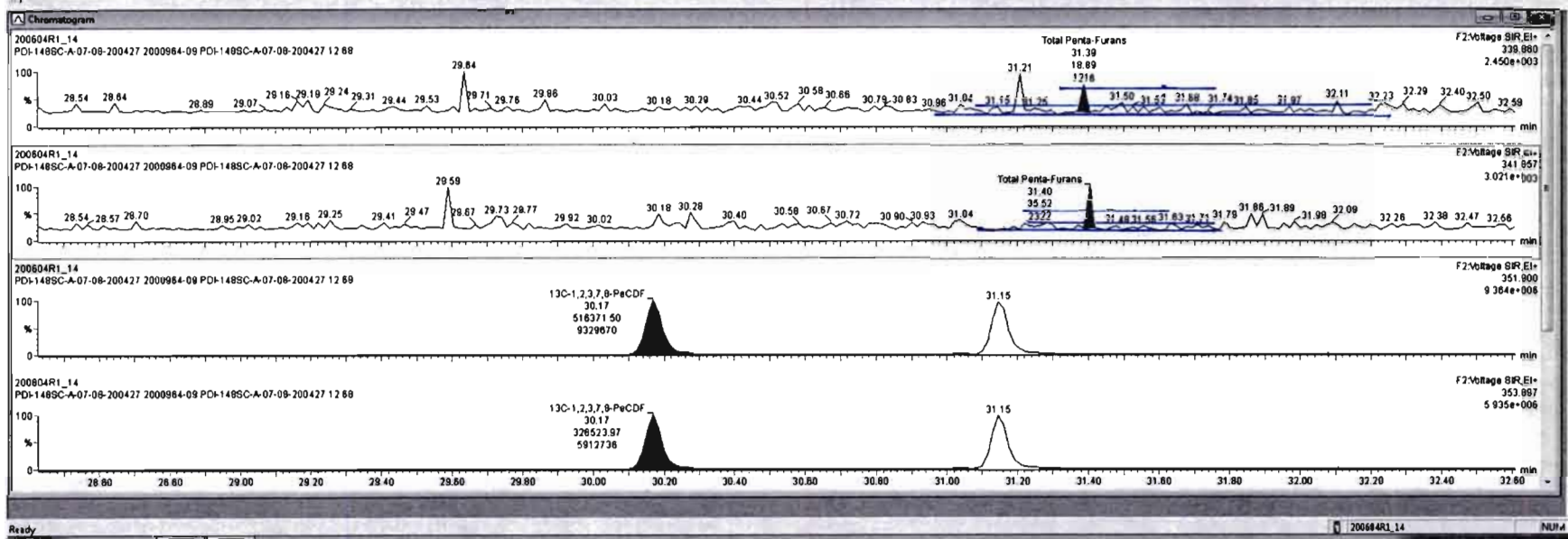
200604R1\_14





ID	Name	Resp	RA	nLy	RRF	wtAvd	RT	RRT	Conc	Substc	DL	EMPC
40	Total Penta-Dioxins				0.9081	10.032			0.000		0.0286	0.0555
41	Total Hexa-Dioxins				0.8923	10.032			0.811		0.132	0.811
42	Total Hepta-Dioxins				0.8639	10.032			1.72		0.177	2.46
43	Total Tetra-Furans				0.7510	10.032			0.000		0.0143	0.00584
44	1st Func. Penta-Furans				0.8925	10.032			0.000		0.00797	0.00945
45	Total Penta-Furans				0.8925	10.032			0.000		0.0186	0.00945
46	Total Hexa-Furans				0.8341	10.032					0.0258	
47	Total Hepta-Furans				0.8734	10.032					0.0318	
48	PFK1											
49	PFK2											

Name	RT	m1 Resp	m2 Resp	RA	nLy	EMPC	Conc
Total Penta-Furans	31.39	1.889e1	3.552e1	0.53	YES	0.00844...	0.00000



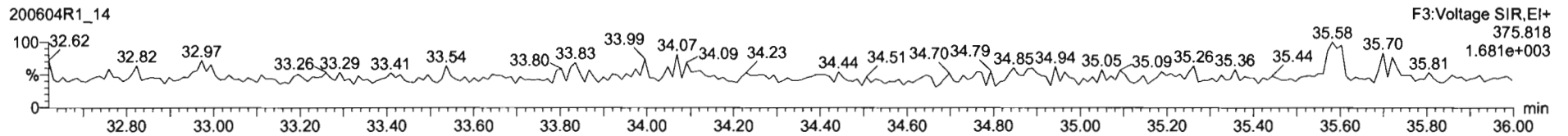
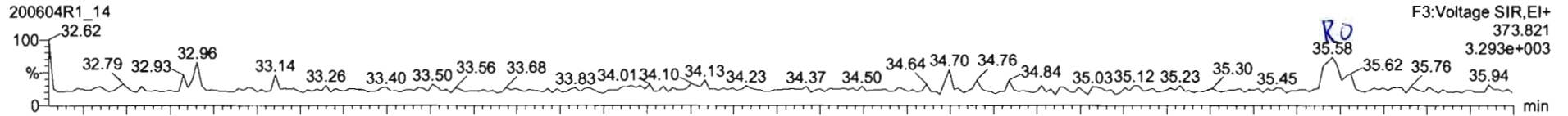


Dataset: Untitled

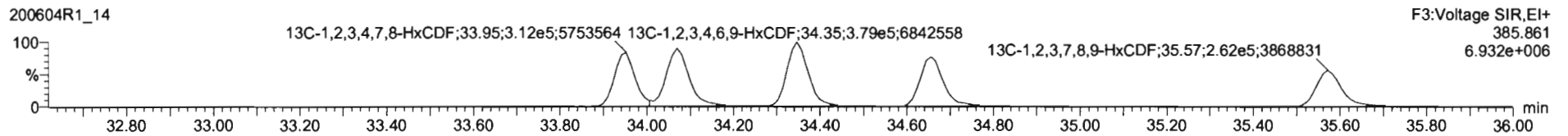
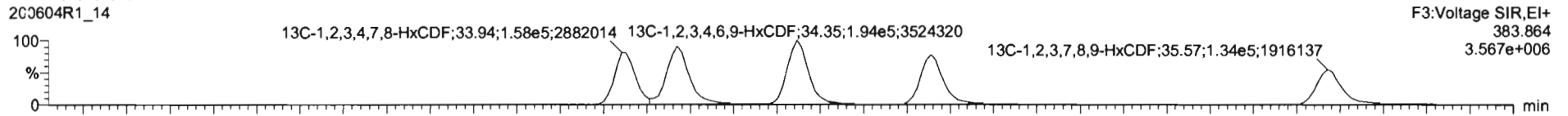
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_14, Date: 04-Jun-2020, Time: 18:18:17, ID: 2000964-09 PDI-148SC-A-07-08-200427 12.68, Description: PDI-148SC-A-07-08-200427

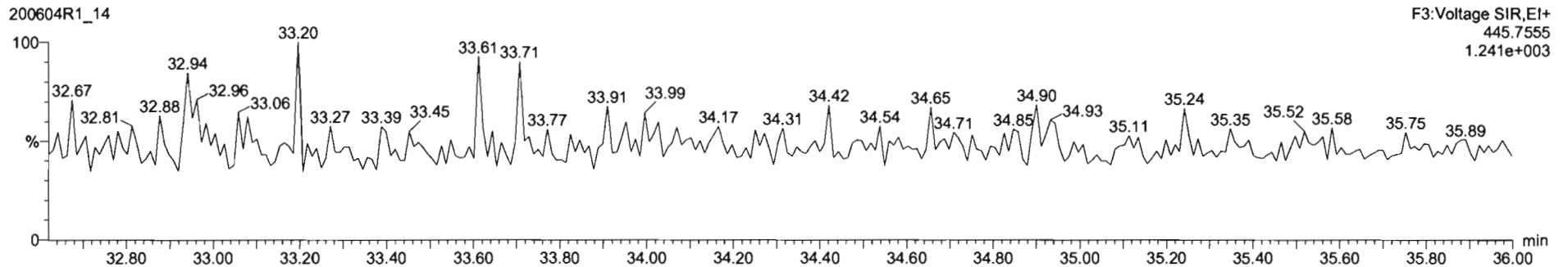
**1,2,3,4,7,8-HxCDF**



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

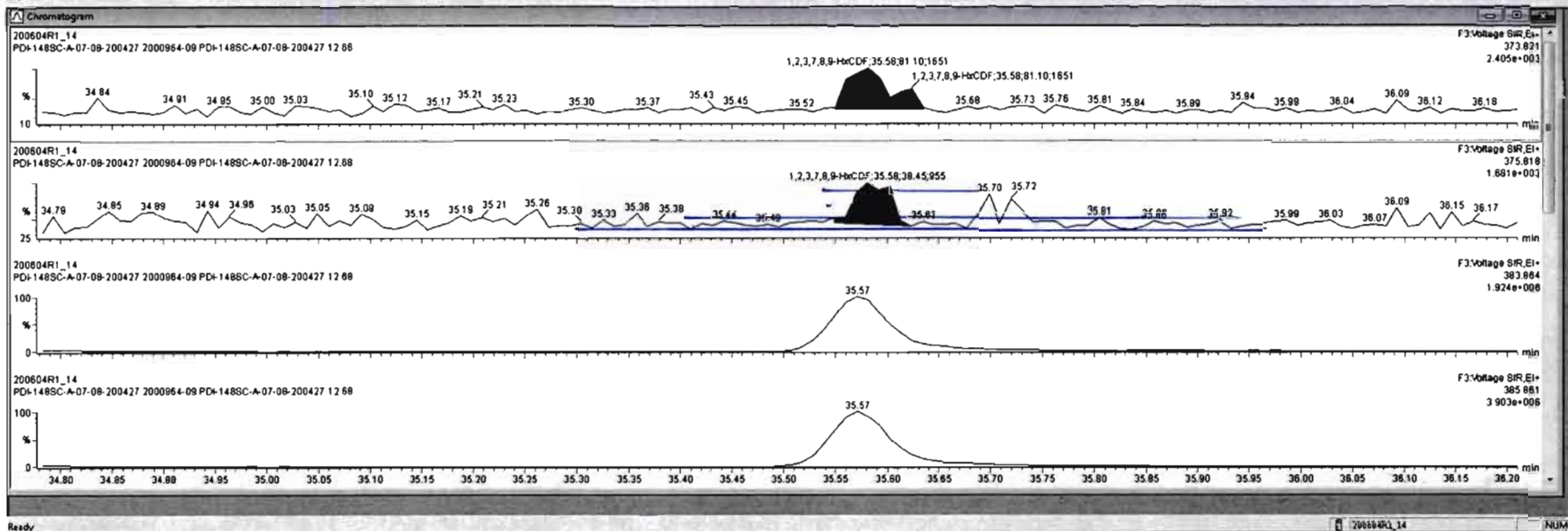


**DPE3**



Name	Resp	RA	nly	RFV	wtVrd	RT	RRT	Conc.	%Resp	DL	EMPC
40 Total Penta-Dioxins				0.9081	10.032			0.000	0.0286	0.0555	
41 Total Hexa-Dioxins				0.8923	10.032			0.811	0.132	0.811	
42 Total Hepta-Dioxins				0.8638	10.032			1.72	0.177	2.46	
43 Total Tetra-Furans				0.7910	10.032			0.000	0.0143	0.00584	
44 1st Func. Penta-Furans				0.8925	10.032			0.000	0.00797		
45 Total Penta-Furans				0.8925	10.032			0.000	0.0150	0.00645	
46 Total Hexa-Furans				0.9341	10.032			0.000	0.0258	0.0487	
47 Total Hepta-Furans				0.8734	10.032			0.000	0.0318		
48 PTK1											
49 PTK2											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,7,8,9-HxCDF	35.58	8.110e1	3.845e1	2.11	YES	0.048728	0.00000

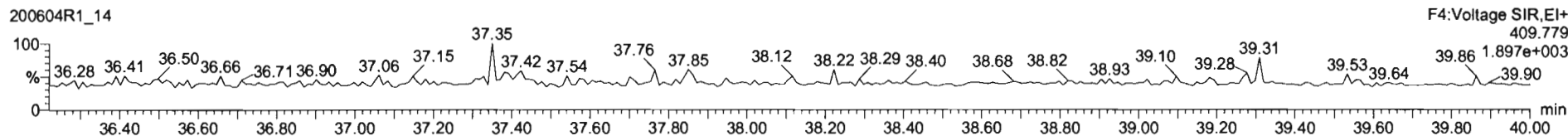
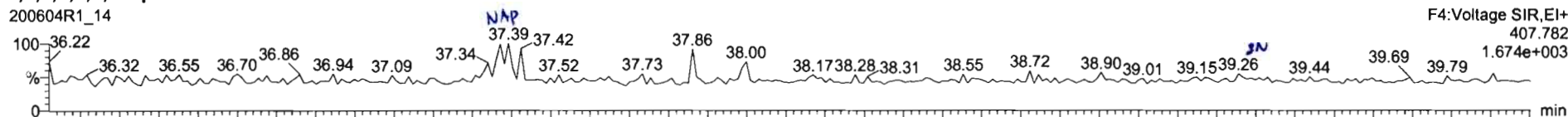


Dataset: Untitled

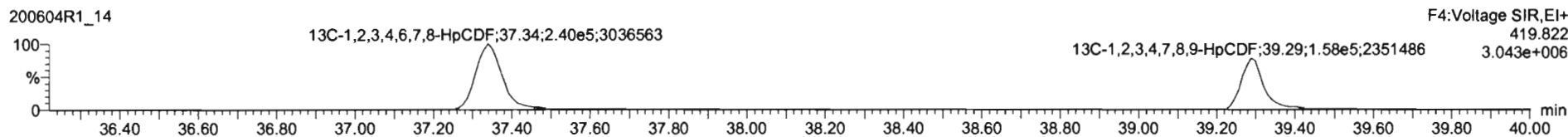
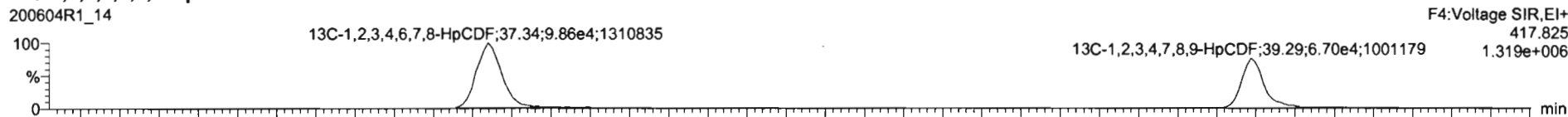
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_14, Date: 04-Jun-2020, Time: 18:18:17, ID: 2000964-09 PDI-148SC-A-07-08-200427 12.68, Description: PDI-148SC-A-07-08-200427

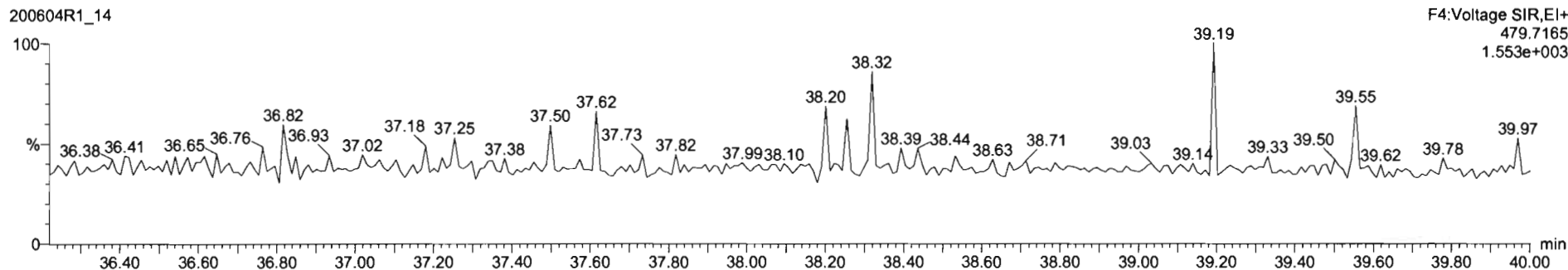
1,2,3,4,6,7,8-HpCDF



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



DPE4

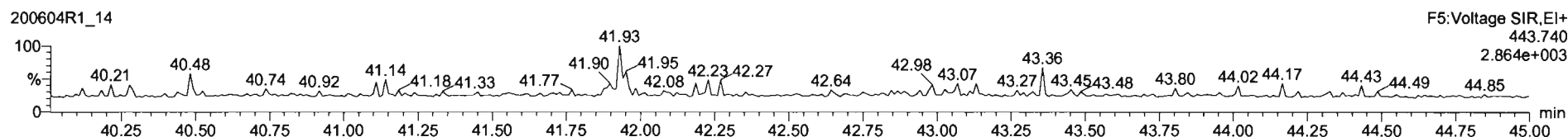
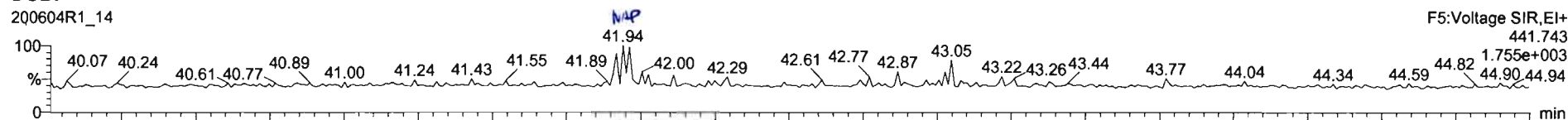


Dataset: Untitled

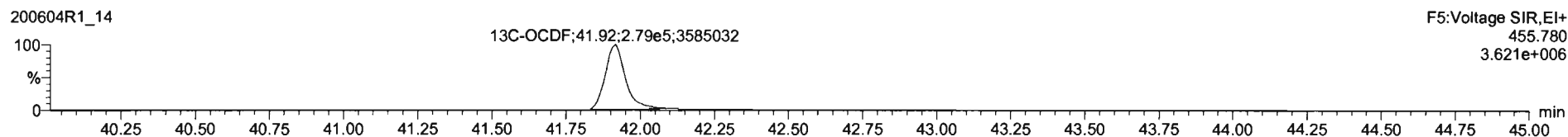
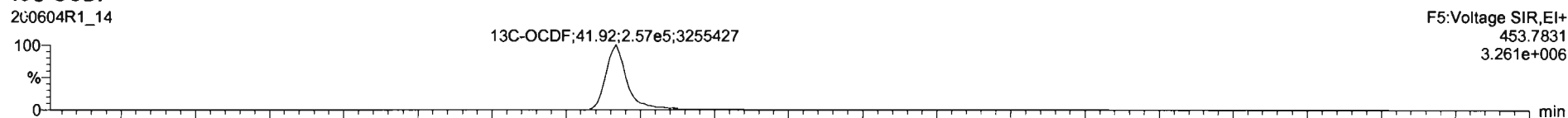
Last Altered: Friday, June 05, 2020 07:23:29 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:23:38 Pacific Daylight Time

Name: 200604R1\_14, Date: 04-Jun-2020, Time: 18:18:17, ID: 2000964-09 PDI-148SC-A-07-08-200427 12.68, Description: PDI-148SC-A-07-08-200427

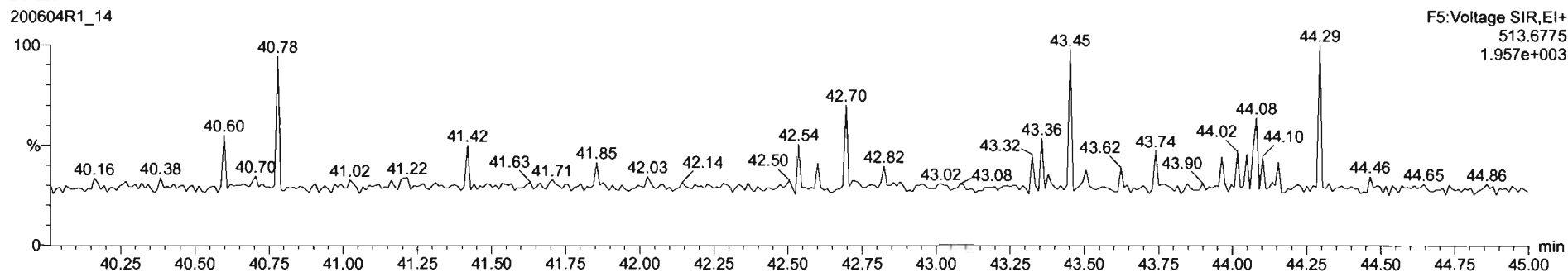
OCDF



13C-OCDF



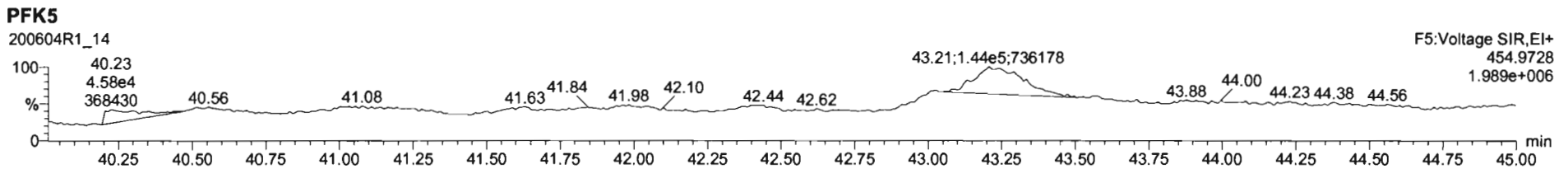
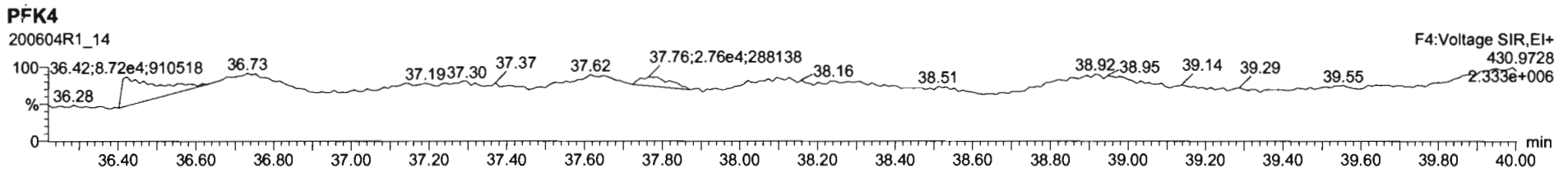
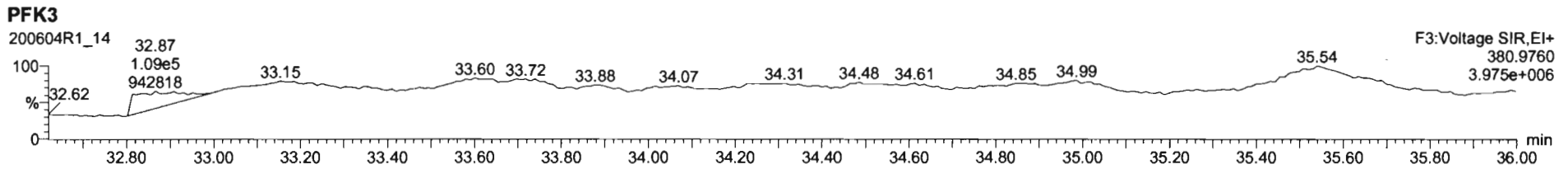
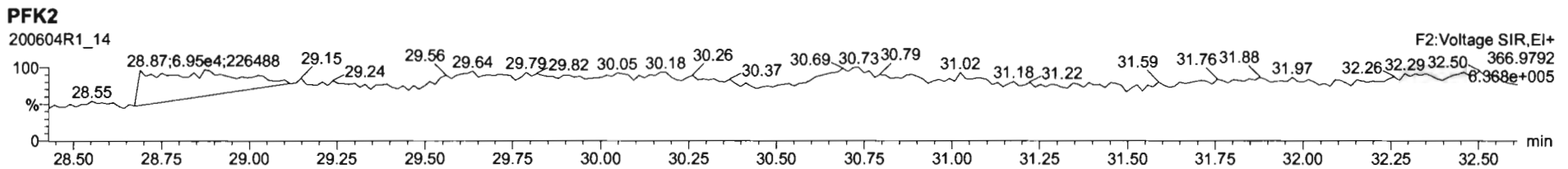
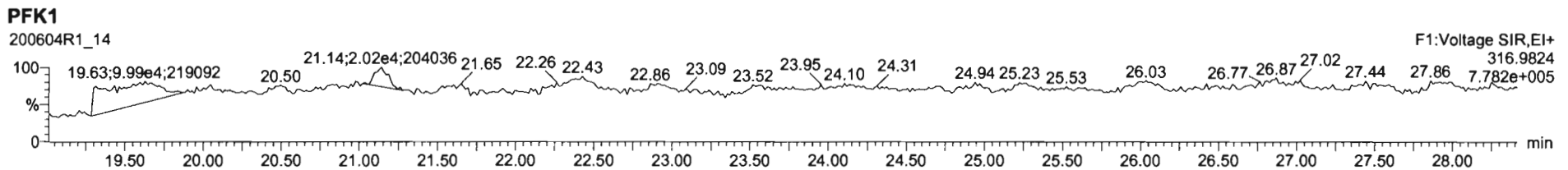
DPE5



Dataset: Untitled

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

Name: 200604R1\_14, Date: 04-Jun-2020, Time: 18:18:17, ID: 2000964-09 PDI-148SC-A-07-08-200427 12.68, Description: PDI-148SC-A-07-08-200427



## **CONFIRMATION**



Dataset: U:\VG7.PRO\Results\200702D1\200702D1\_11.qld

Last Altered: Friday, July 03, 2020 09:51:37 Pacific Daylight Time  
Printed: Friday, July 03, 2020 13:16:43 Pacific Daylight Time

*DB 7/3/20 C7 07/16/2020*

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 03 Jul 2020 09:08:31  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200702D1\_11, Date: 02-Jul-2020, Time: 20:54:51, ID: 2000964-02RE1 PDI-148SC-A-00-01-200427 18.1, Description: PDI-148SC-A-00-01-200427

#	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	1.05e4	0.77	NO	0.982	10.075	17.003	17.01	1.000	1.001	9.0590		0.285	9.06
2	2 13C-2,3,7,8-TCDF	2.35e5	0.79	NO	1.08	10.075	16.978	16.98	1.133	1.136	153.57	77.4	0.705	
3	3 13C-1,2,3,4-TCDF	2.80e5	0.79	NO	1.00	10.075	14.920	14.95	1.000	1.000	198.50	100	0.763	

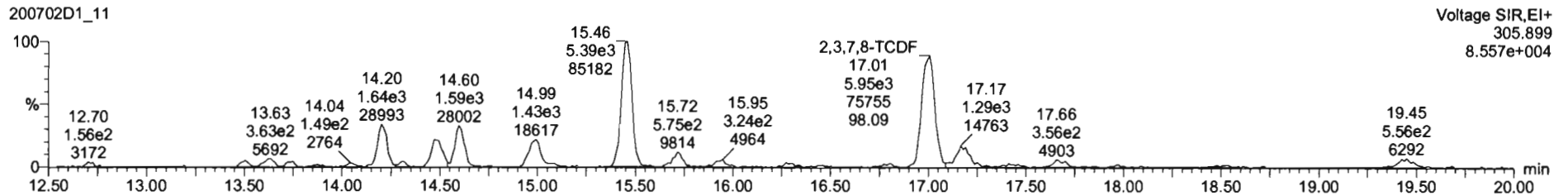
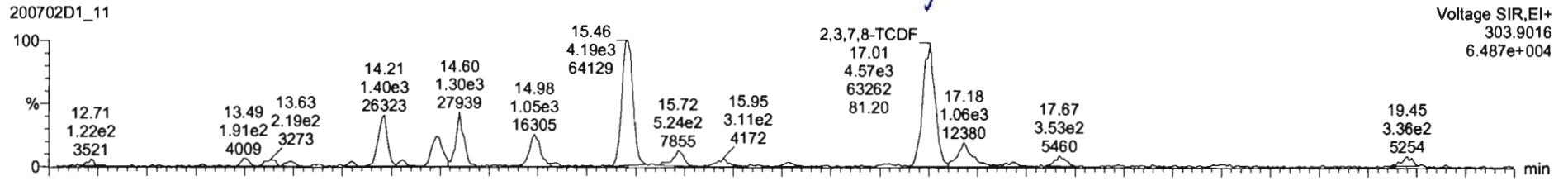
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Printed: Friday, July 03, 2020 09:52:31 Pacific Daylight Time

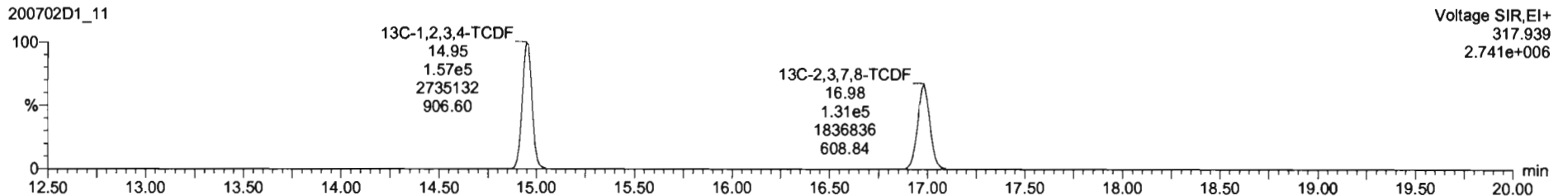
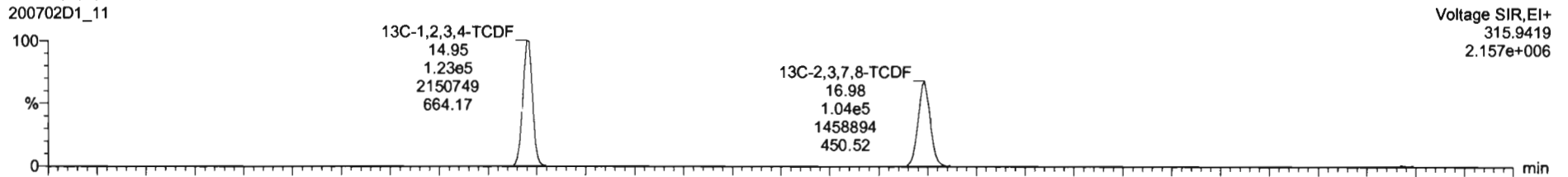
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Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200702D1\_11, Date: 02-Jul-2020, Time: 20:54:51, ID: 2000964-02RE1 PDI-148SC-A-00-01-200427 18.1, Description: PDI-148SC-A-00-01-200427

2,3,7,8-TCDF



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

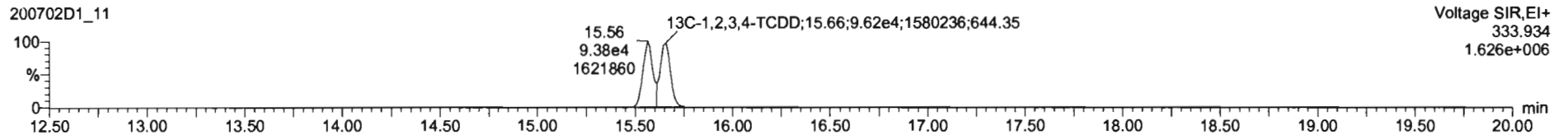
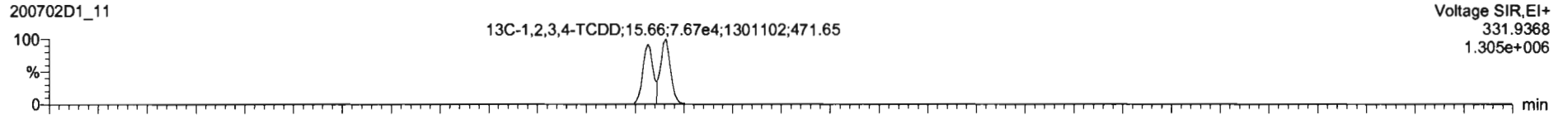


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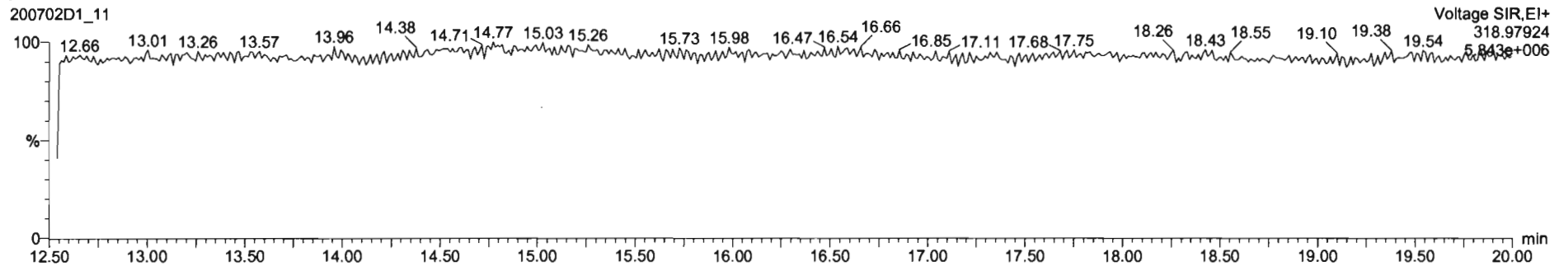
Last Altered: Friday, July 03, 2020 09:51:37 Pacific Daylight Time  
Printed: Friday, July 03, 2020 09:52:31 Pacific Daylight Time

Name: 200702D1\_11, Date: 02-Jul-2020, Time: 20:54:51, ID: 2000964-02RE1 PDI-148SC-A-00-01-200427 18.1, Description: PDI-148SC-A-00-01-200427

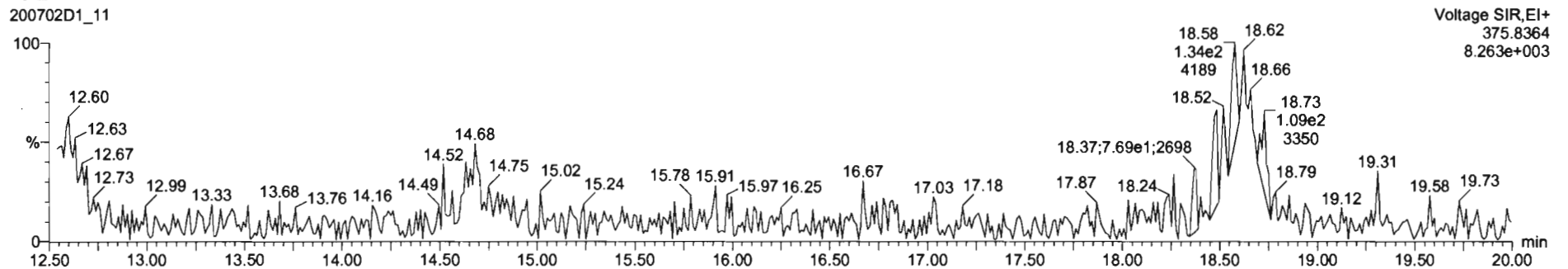
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200702D1\200702D1\_12.qld

Last Altered: Friday, July 03, 2020 09:52:37 Pacific Daylight Time  
Printed: Friday, July 03, 2020 13:18:40 Pacific Daylight Time

*DB 7/3/20 C1 07/16/2020*

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 03 Jul 2020 09:08:31

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

Name: 200702D1\_12, Date: 02-Jul-2020, Time: 21:26:33, ID: 2000964-03RE1 PDI-148SC-A-01-02-200427 12.76, Description: PDI-148SC-A-01-02-200427

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	2.04e4	0.78	NO	0.982	10.041	16.991	16.99	1.000	1.001	16.602		0.307	16.6
2	2 13C-2,3,7,8-TCDF	2.50e5	0.78	NO	1.08	10.041	16.978	16.97	1.133	1.135	154.73	77.7	0.617	
3	3 13C-1,2,3,4-TCDF	2.97e5	0.79	NO	1.00	10.041	14.920	14.95	1.000	1.000	199.18	100	0.668	

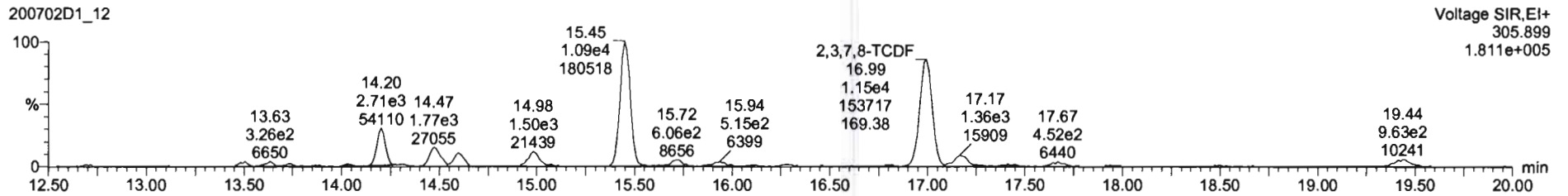
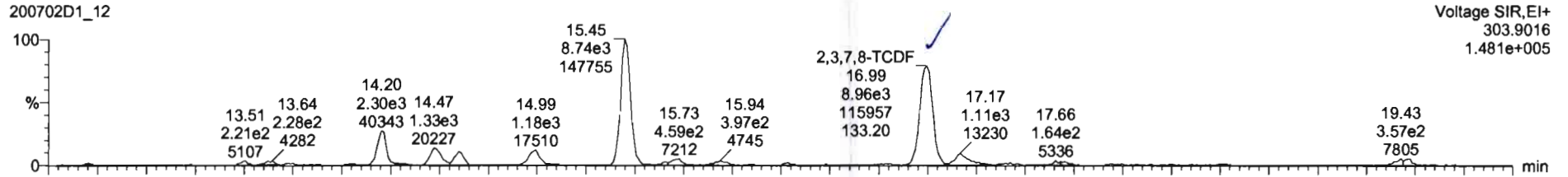
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Printed: Friday, July 03, 2020 09:53:31 Pacific Daylight Time

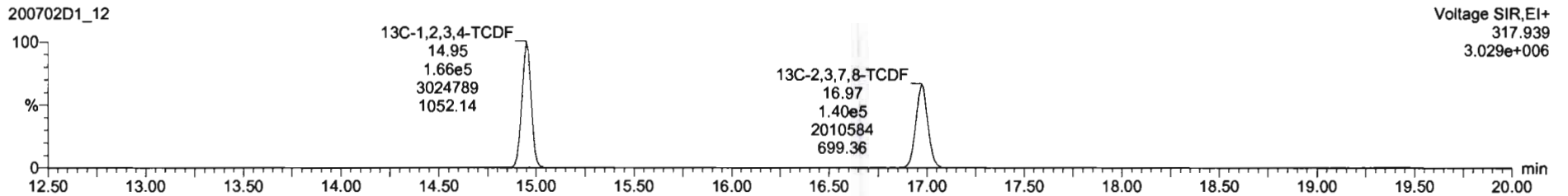
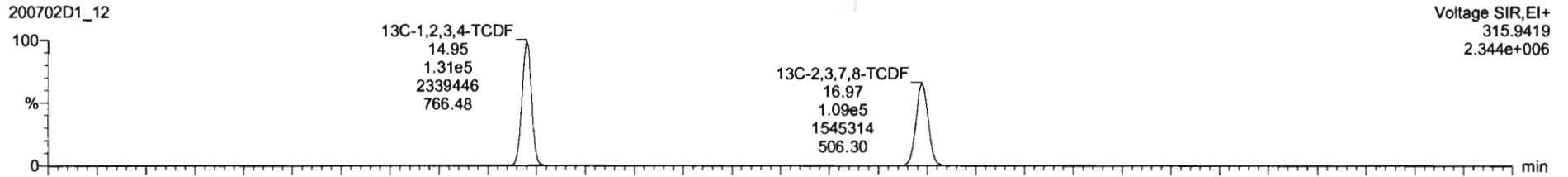
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 03 Jul 2020 09:08:31  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200702D1\_12, Date: 02-Jul-2020, Time: 21:26:33, ID: 2000964-03RE1 PDI-148SC-A-01-02-200427 12.76, Description: PDI-148SC-A-01-02-200427

2,3,7,8-TCDF



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



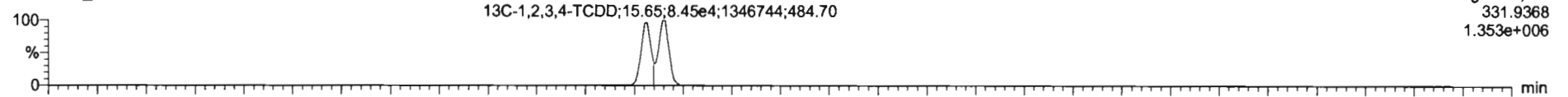
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Last Altered: Friday, July 03, 2020 09:52:37 Pacific Daylight Time  
Printed: Friday, July 03, 2020 09:53:31 Pacific Daylight Time

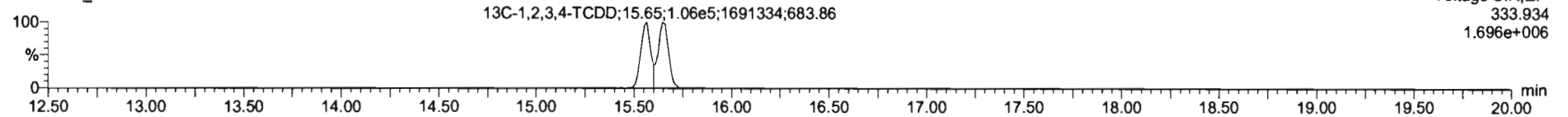
Name: 200702D1\_12, Date: 02-Jul-2020, Time: 21:26:33, ID: 2000964-03RE1 PDI-148SC-A-01-02-200427 12.76, Description: PDI-148SC-A-01-02-200427

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

200702D1\_12

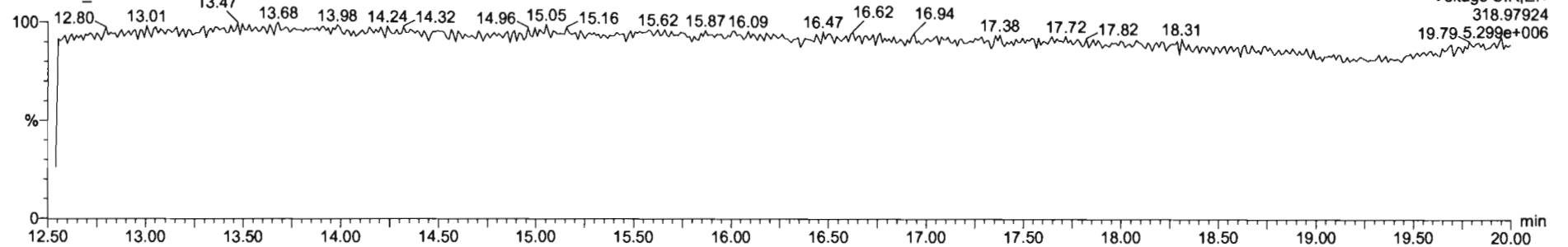


200702D1\_12



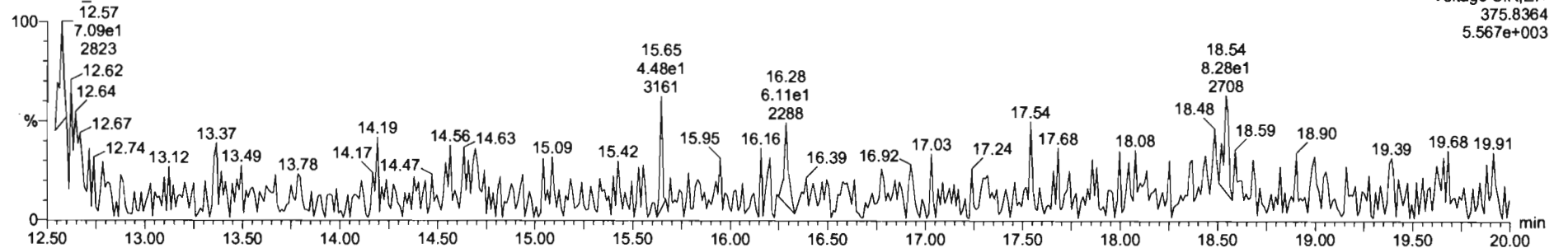
**PFK1**

200702D1\_12



**DPE1**

200702D1\_12





## **CONTINUING CALIBRATION**

# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200604KH

Reviewed By: C1 06/05/2020

*Initials & Date*

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <u>NA</u>	Mass resolution $\geq$	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614   1699   429   1613/1668/8280		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <u>NA</u>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GC Break <20%	<input checked="" type="checkbox"/> <u>NA</u>	
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b><u>8280 CS1 End Standard:</u></b>		
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours	<input checked="" type="checkbox"/> <u>NA</u>	
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>Comments:</b>		
Correct ICAL referenced?	<u>GRB</u>	<u>GRB</u>			
<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"/> <u>(Y)</u>	<input type="checkbox"/> <u>N</u>			
- Bottle position verified?	<u>GRB</u>				

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-1.qld

Last Altered: Thursday, June 04, 2020 09:07:52 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 09:08:10 Pacific Daylight Time

*GPB 06/04/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

*(7 06/05/2020*

Name: 200604R1\_1, Date: 04-Jun-2020, Time: 08:13:02, ID: ST200604R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	5.49e4	6.21e5	0.73	NO	0.888	26.55	26.53	NO	1.001	1.001	9.9464	99.5	NO
2	2 1,2,3,7,8-PeCDD	1.72e5	4.02e5	0.59	NO	0.908	31.49	31.48	NO	1.001	1.000	47.210	94.4	NO
3	3 1,2,3,4,7,8-HxCDD	1.33e5	2.68e5	1.27	NO	1.03	34.85	34.85	NO	1.000	1.000	47.940	95.9	NO
4	4 1,2,3,6,7,8-HxCDD	1.55e5	3.55e5	1.29	NO	0.892	34.94	34.95	NO	1.000	1.000	48.983	98.0	NO
5	5 1,2,3,7,8,9-HxCDD	1.27e5	2.92e5	1.24	NO	0.887	35.23	35.24	NO	1.000	1.001	49.043	98.1	NO
6	6 1,2,3,4,6,7,8-HpCDD	8.97e4	2.07e5	1.02	NO	0.864	38.77	38.77	NO	1.000	1.000	50.291	101	NO
7	7 OCDD	1.80e5	3.95e5	0.86	NO	0.914	41.73	41.74	NO	1.000	1.000	99.604	99.6	NO
8	8 2,3,7,8-TCDF	5.78e4	8.06e5	0.78	NO	0.751	25.64	25.63	NO	1.001	1.001	9.5558	95.6	NO
9	9 1,2,3,7,8-PeCDF	2.76e5	6.27e5	1.56	NO	0.893	30.21	30.20	NO	1.001	1.001	49.287	98.6	NO
10	10 2,3,4,7,8-PeCDF	2.72e5	6.14e5	1.51	NO	0.935	31.19	31.18	NO	1.001	1.000	47.440	94.9	NO
11	11 1,2,3,4,7,8-HxCDF	1.55e5	3.52e5	1.21	NO	0.884	33.95	33.97	NO	1.000	1.001	49.869	99.7	NO
12	12 1,2,3,6,7,8-HxCDF	1.86e5	4.27e5	1.20	NO	0.889	34.09	34.09	NO	1.000	1.000	49.096	98.2	NO
13	13 2,3,4,6,7,8-HxCDF	1.70e5	3.74e5	1.20	NO	0.934	34.70	34.69	NO	1.001	1.001	48.476	97.0	NO
14	14 1,2,3,7,8,9-HxCDF	1.28e5	2.99e5	1.23	NO	0.871	35.58	35.60	NO	1.000	1.001	49.081	98.2	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.16e5	2.52e5	1.01	NO	0.873	37.39	37.37	NO	1.001	1.001	52.878	106	NO
16	16 1,2,3,4,7,8,9-HpCDF	8.19e4	1.61e5	1.00	NO	1.01	39.31	39.31	NO	1.000	1.000	50.181	100	NO
17	17 OCDF	1.86e5	4.70e5	0.86	NO	0.806	41.93	41.93	NO	1.000	1.000	98.247	98.2	NO
18	18 13C-2,3,7,8-TCDD	6.21e5	5.40e5	0.79	NO	1.16	26.54	26.51	NO	1.026	1.025	99.431	99.4	NO
19	19 13C-1,2,3,7,8-PeCDD	4.02e5	5.40e5	0.63	NO	0.849	31.73	31.47	NO	1.227	1.217	87.561	87.6	NO
20	20 13C-1,2,3,4,7,8-HxCDD	2.68e5	3.63e5	1.29	NO	0.779	34.84	34.84	NO	1.014	1.014	94.601	94.6	NO
21	21 13C-1,2,3,6,7,8-HxCDD	3.55e5	3.63e5	1.27	NO	1.02	34.95	34.94	NO	1.017	1.017	96.142	96.1	NO
22	22 13C-1,2,3,7,8,9-HxCDD	2.92e5	3.63e5	1.27	NO	0.903	35.23	35.22	NO	1.025	1.025	89.238	89.2	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.07e5	3.63e5	1.04	NO	0.689	38.75	38.76	NO	1.128	1.128	82.563	82.6	NO
24	24 13C-OCDD	3.95e5	3.63e5	0.90	NO	0.652	41.77	41.73	NO	1.216	1.215	166.68	83.3	NO
25	25 13C-2,3,7,8-TCDF	8.06e5	7.79e5	0.76	NO	1.06	25.58	25.62	NO	0.989	0.991	97.712	97.7	NO
26	26 13C-1,2,3,7,8-PeCDF	6.27e5	7.79e5	1.61	NO	0.838	30.11	30.18	NO	1.165	1.167	96.161	96.2	NO
27	27 13C-2,3,4,7,8-PeCDF	6.14e5	7.79e5	1.54	NO	0.817	31.06	31.16	NO	1.202	1.205	96.592	96.6	NO
28	28 13C-1,2,3,4,7,8-HxCDF	3.52e5	3.63e5	0.50	NO	1.01	33.97	33.95	NO	0.989	0.988	96.245	96.2	NO
29	29 13C-1,2,3,6,7,8-HxCDF	4.27e5	3.63e5	0.51	NO	1.17	34.10	34.08	NO	0.992	0.992	100.67	101	NO
30	30 13C-2,3,4,6,7,8-HxCDF	3.74e5	3.63e5	0.49	NO	1.02	34.67	34.67	NO	1.009	1.009	100.92	101	NO
31	31 13C-1,2,3,7,8,9-HxCDF	2.99e5	3.63e5	0.50	NO	0.860	35.57	35.58	NO	1.035	1.036	95.943	95.9	NO

Dataset: U:\VG12.PRO\Results\200604R1\200604R1-1.qld

Last Altered: Thursday, June 04, 2020 09:07:52 Pacific Daylight Time

Printed: Thursday, June 04, 2020 09:08:10 Pacific Daylight Time

Name: 200604R1\_1, Date: 04-Jun-2020, Time: 08:13:02, ID: ST200604R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	13C-1,2,3,4,6,7,8-HpCDF	2.52e5	3.63e5	0.42	NO	0.774	37.32	37.35	NO	1.086	1.087	89.718	89.7	NO
33	13C-1,2,3,4,7,8,9-HpCDF	1.61e5	3.63e5	0.42	NO	0.521	39.35	39.31	NO	1.145	1.144	85.195	85.2	NO
34	13C-OCDF	4.70e5	3.63e5	0.86	NO	0.746	41.95	41.93	NO	1.221	1.220	173.63	86.8	NO
35	37Cl-2,3,7,8-TCDD	5.62e4	5.40e5			1.04	26.57	26.53	NO	1.028	1.026	10.023	100	NO
36	13C-1,2,3,4-TCDD	5.40e5	5.40e5	0.80	NO	1.00	25.89	25.85	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	7.79e5	7.79e5	0.78	NO	1.00	24.36	24.18	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	3.63e5	3.63e5	0.50	NO	1.00	34.42	34.36	NO	1.000	1.000	100.00	100	YES <sup>OK</sup>

Dataset: Untitled

Last Altered: Friday, June 05, 2020 07:17:54 Pacific Daylight Time  
Printed: Friday, June 05, 2020 07:18:35 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45  
Calibration: U:\VG12.PRO\CurveDB\ldb5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

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

	Name	ID	Acq.Date	Acq.Time
1	200604R1_1	ST200604R1_1 1613 CS3 19L2305	04-Jun-20	08:13:02
2	200604R1_2	B0E0067-BS1 OPR 10	04-Jun-20	09:01:24
3	200604R1_3	SOLVENT BLANK	04-Jun-20	09:48:52
4	200604R1_4	B0E0067-BLK1 Method Blank 10	04-Jun-20	10:35:05
5	200604R1_5	2000964-01 PDI-1148SC-A-07-08-200427 12.64	04-Jun-20	11:22:10
6	200604R1_6	2000964-02 PDI-148SC-A-00-01-200427 18.1	04-Jun-20	12:08:25
7	200604R1_7	2000964-03 PDI-148SC-A-01-02-200427 12.76	04-Jun-20	12:54:39
8	200604R1_8	2000964-04 PDI-148SC-A-02-03-200427 12.48	04-Jun-20	13:40:54
9	200604R1_9	2000964-05 PDI-148SC-A-03-04-200427 12.53	04-Jun-20	14:27:11
10	200604R1_10	2000964-06 PDI-148SC-A-04-05-200427 11.5	04-Jun-20	15:13:26
11	200604R1_11	2000964-07 PDI-148SC-A-05-06-200427 11.82	04-Jun-20	15:59:40
12	200604R1_12	2000964-08 PDI-148SC-A-06-07-200427 12.17	04-Jun-20	16:45:53
13	200604R1_13	B0E0067-DUP1 Duplicate 12.3	04-Jun-20	17:32:04
14	200604R1_14	2000964-09 PDI-148SC-A-07-08-200427 12.68	04-Jun-20	18:18:17
15	200604R1_15	2000997-01 PDI-061SC-A-03-04-200428 14.97	04-Jun-20	19:04:30

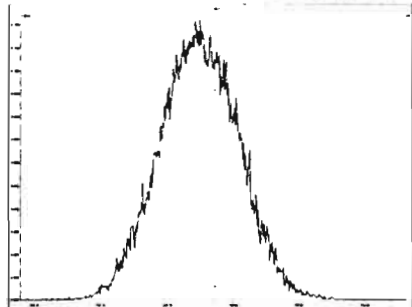
Experiment Calibration Report

MassLynx 4.1 SCN815

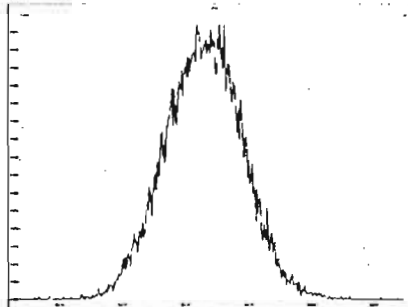
File: C:\msd\... Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, June 04, 2020 08:07:31 Pacific Daylight Time

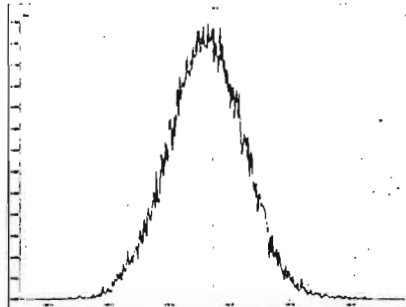
M 292.9824 R 10775



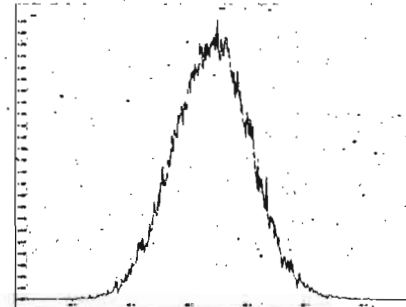
M 304.9824 R 10418



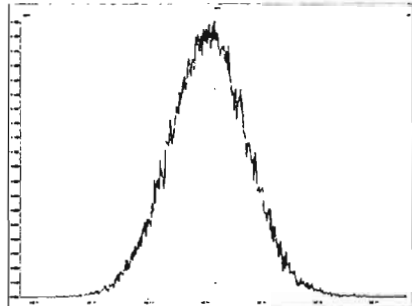
M 318.9792 R 10548



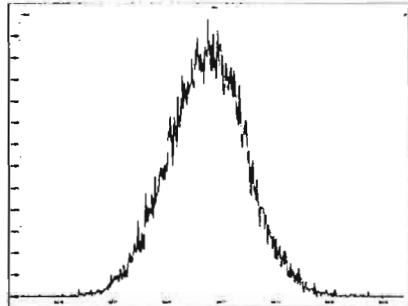
M 330.9792 R 10419



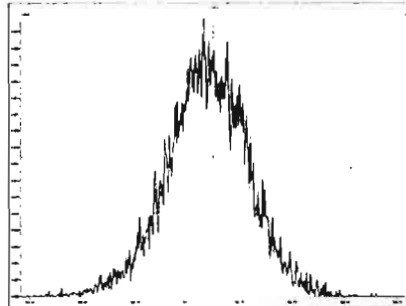
M 342.9792 R 10549



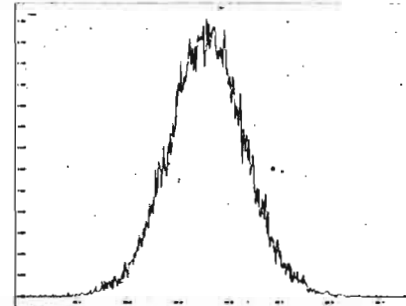
M 354.9792 R 10286



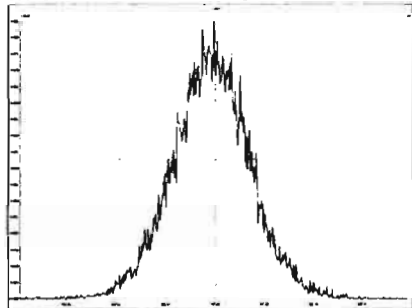
M 366.9792 R 10590



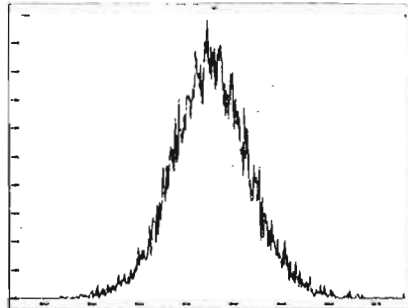
M 380.9760 R 10869



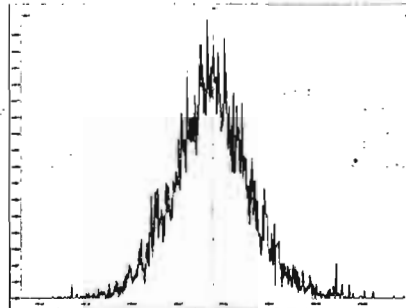
M 392.9760 R 10636



M 404.9760 R 10204



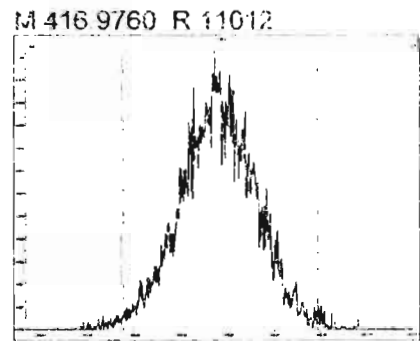
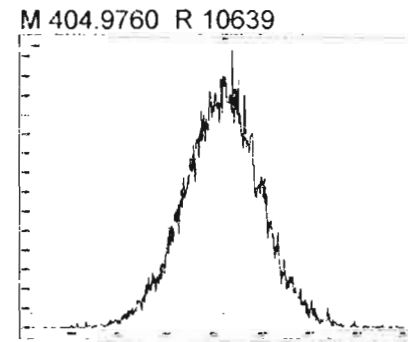
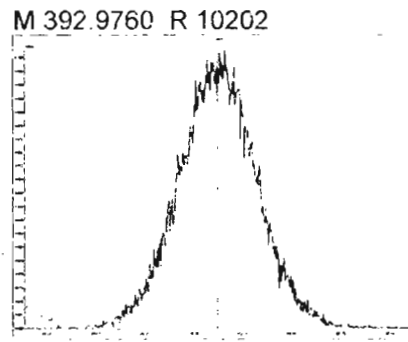
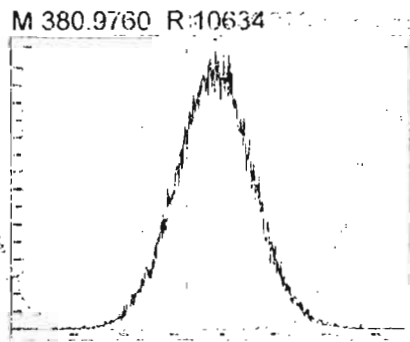
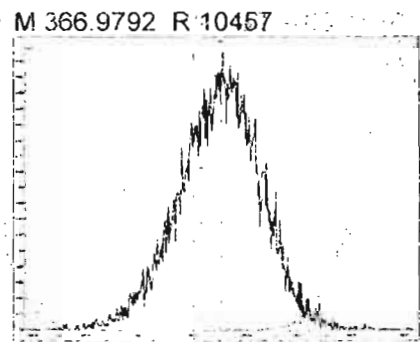
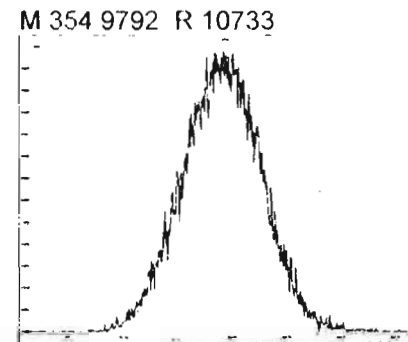
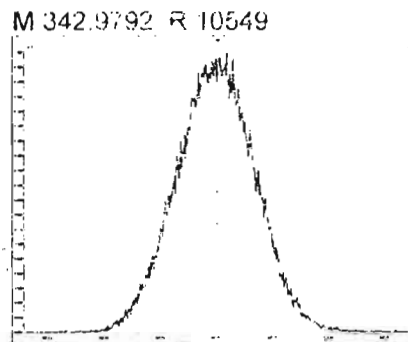
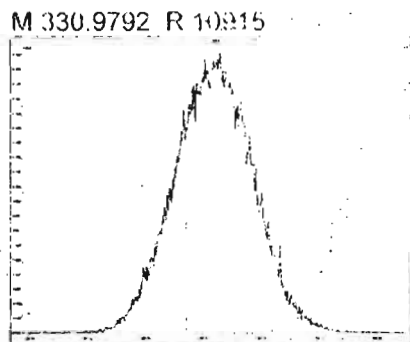
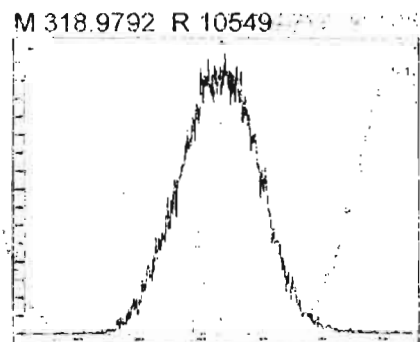
M 416.9760 R 10915





Reference: P11ref Function: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

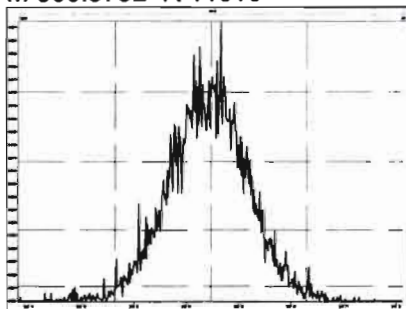
Printed: Thursday, June 04, 2020 08:08:57 Pacific Daylight Time



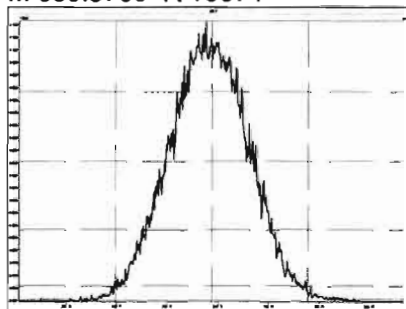
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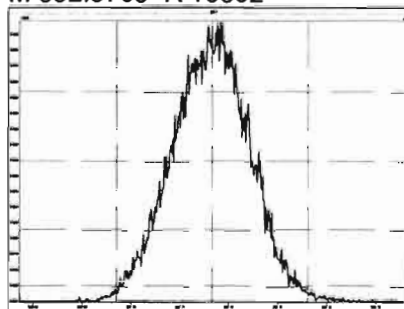
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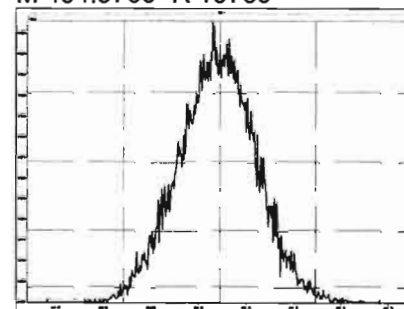
M 380.9760 R 10374



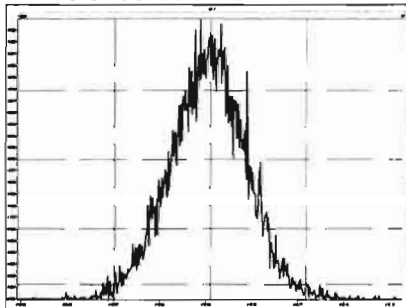
M 392.9760 R 10502



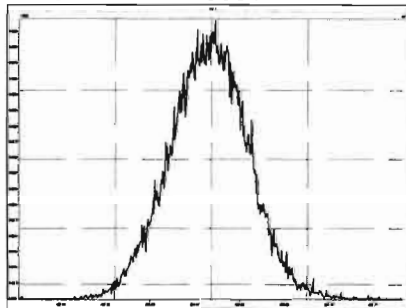
M 404.9760 R 10730



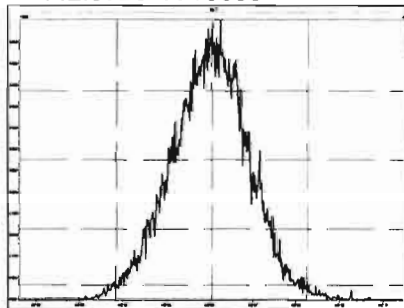
M 416.9760 R 11164



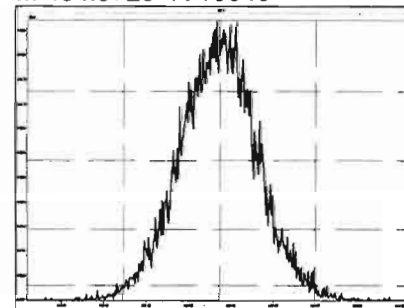
M 430.9728 R 10681



M 442.9728 R 10638



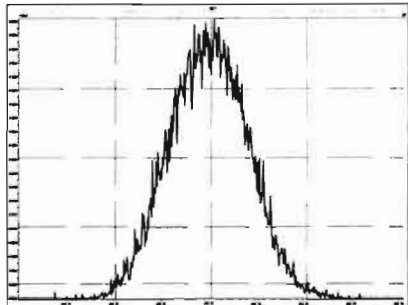
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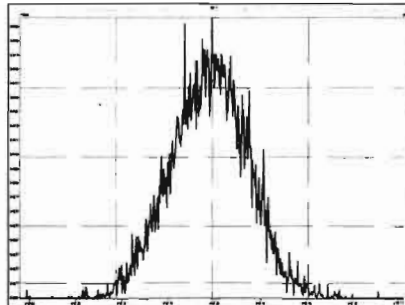
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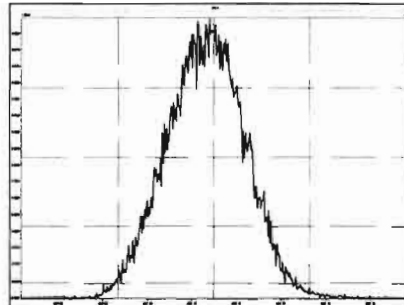
M 404.9760 R 11064



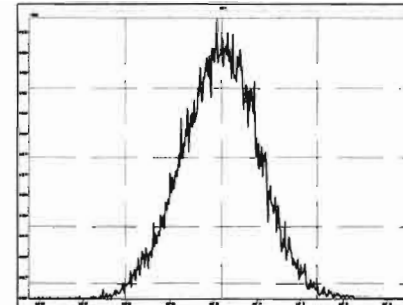
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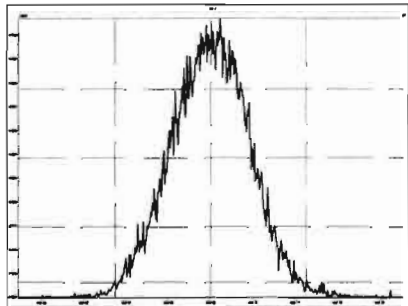
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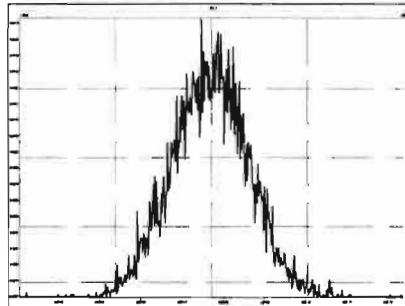
M 442.9728 R 10965



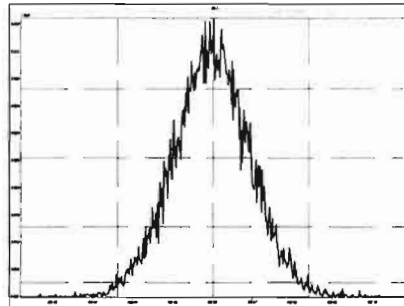
M 454.9728 R 10330



M 466.9728 R 11112



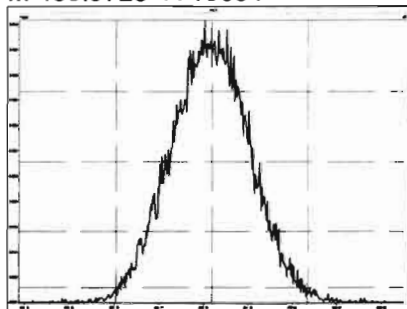
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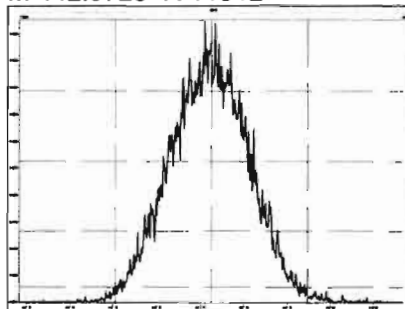
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Printed: Thursday, June 04, 2020 08:10:19 Pacific Daylight Time

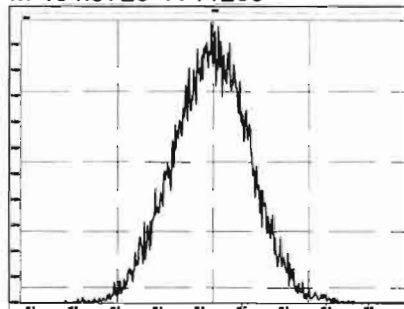
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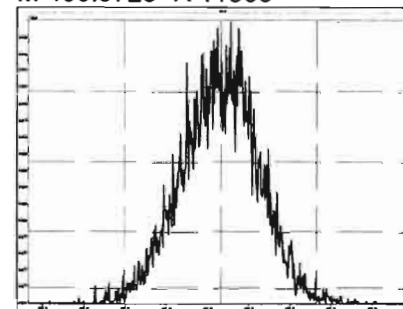
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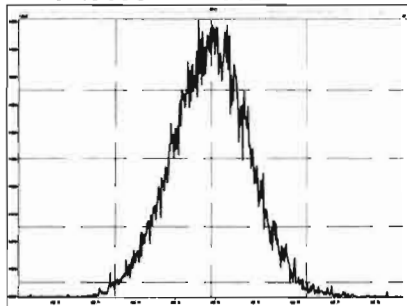
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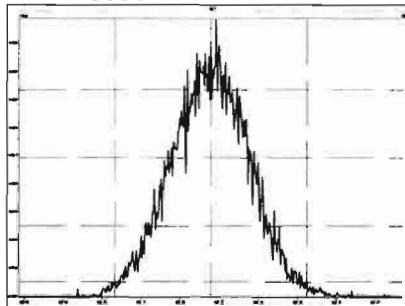
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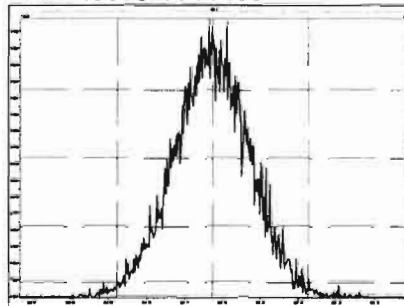
M 480.9696 R 10682



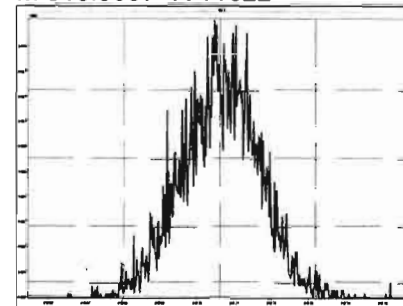
M 492.9696 R 10504



M 504.9696 R 11466



M 516.9697 R 11622



Dataset: Untitled

Last Altered: Thursday, June 04, 2020 09:00:18 Pacific Daylight Time

Printed: Thursday, June 04, 2020 09:00:38 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

ID: ST Name: 200604R1\_1, Date: 04-Jun-2020, Time: 08:13:02, ID: ST200604R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.52
2	2 1,2,8,9-TCDD (Last)	27.49
3	3 1,2,4,7,9-PeCDD (First)	29.27
4	4 1,2,3,8,9-PeCDD (Last)	31.86
5	5 1,2,4,6,7,9-HxCDD (First)	33.35
6	6 1,2,3,7,8,9-HxCDD (Last)	35.24
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.75
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.77
9	9 1,3,6,8-TCDF (First)	20.36
10	10 1,2,8,9-TCDF (Last)	27.64
11	11 1,3,4,6,8-PeCDF (First)	27.59
12	12 1,2,3,8,9-PeCDF (Last)	32.11
13	13 1,2,3,4,6,8-HxCDF (First)	32.80
14	14 1,2,3,7,8,9-HxCDF (Last)	35.60
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.37
16	16 1,2,3,4,7,8,9-HpCDF (Last)	39.31

Dataset: Untitled

Last Altered: Thursday, June 04, 2020 09:00:18 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 09:00:38 Pacific Daylight Time

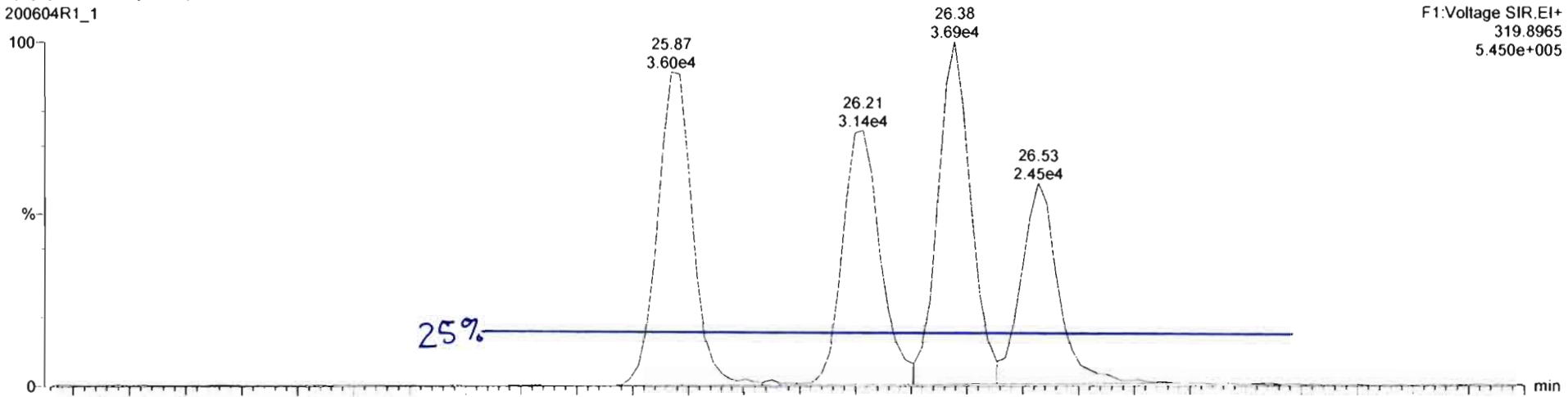
GRB 06/04/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200604R1\_1, Date: 04 Jun 2020, Time: 08:13:02, ID: ST200604R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

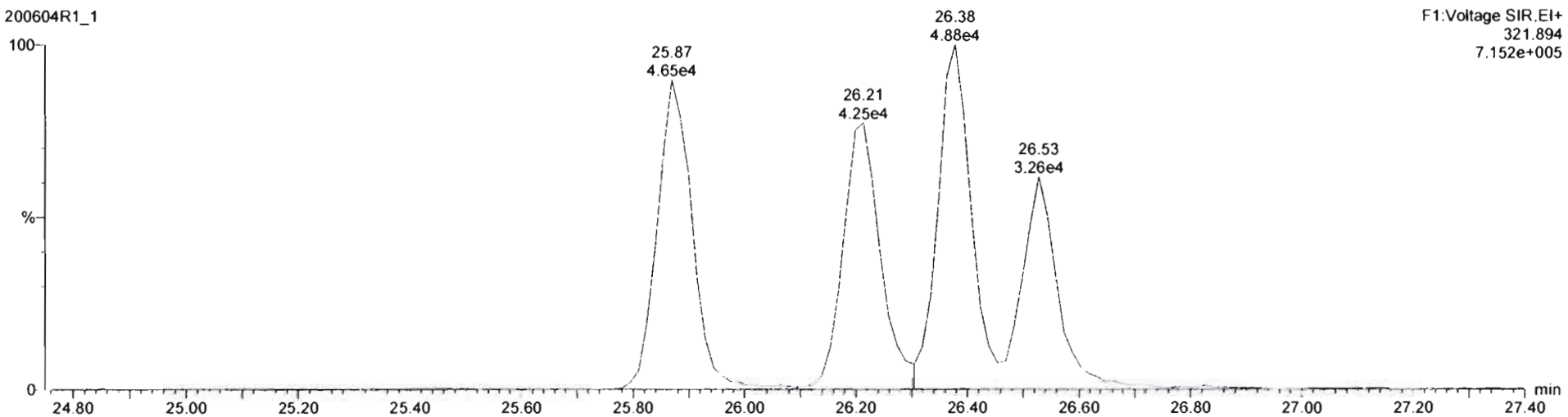
1,3,6,8-TCDD (First)  
200604R1\_1

F1:Voltage SIR,EI+  
319.8965  
5.450e+005



200604R1\_1

F1:Voltage SIR,EI+  
321.894  
7.152e+005





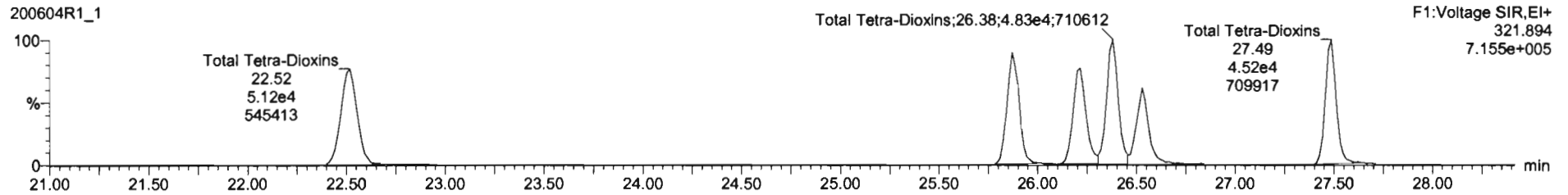
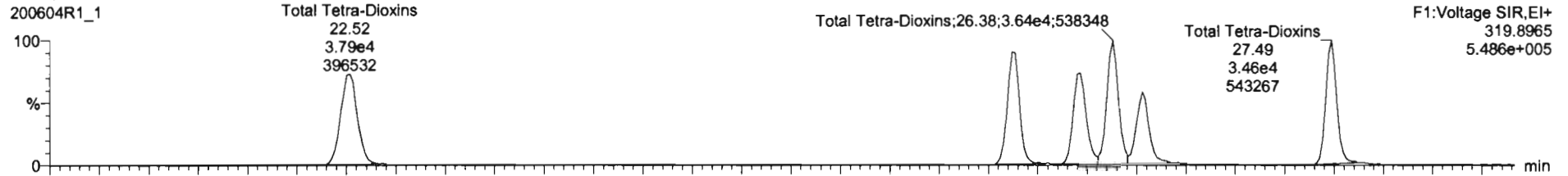
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Last Altered: Thursday, June 04, 2020 09:03:38 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 09:03:43 Pacific Daylight Time

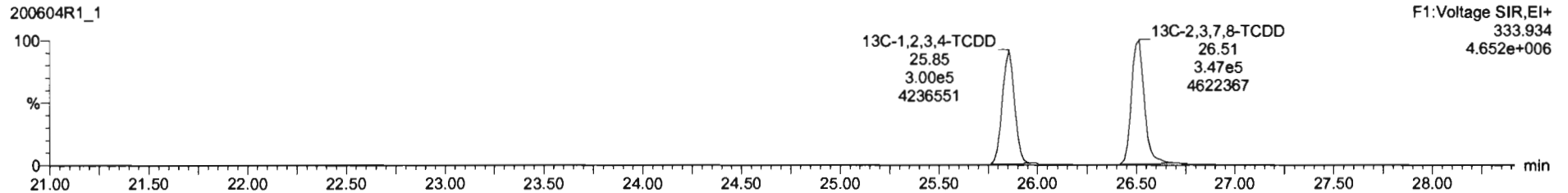
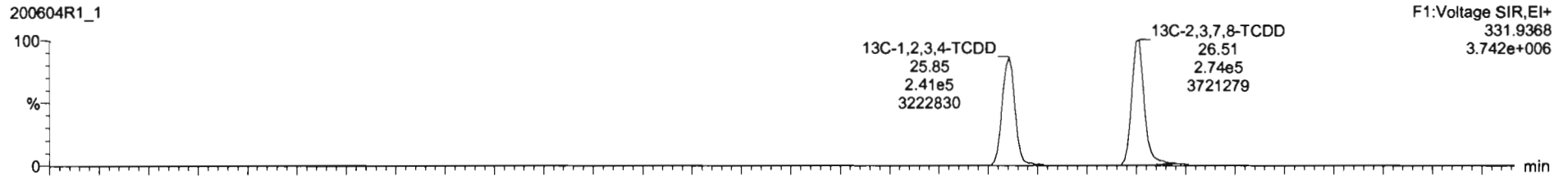
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Name: 200604R1\_1, Date: 04-Jun-2020, Time: 08:13:02, ID: ST200604R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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



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



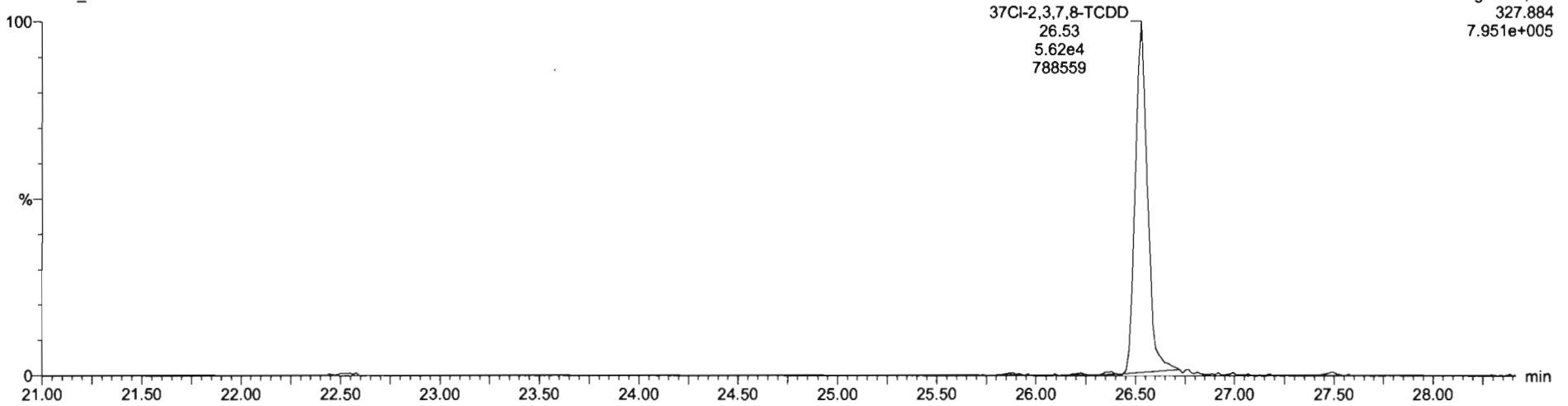
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Printed: Thursday, June 04, 2020 09:03:43 Pacific Daylight Time

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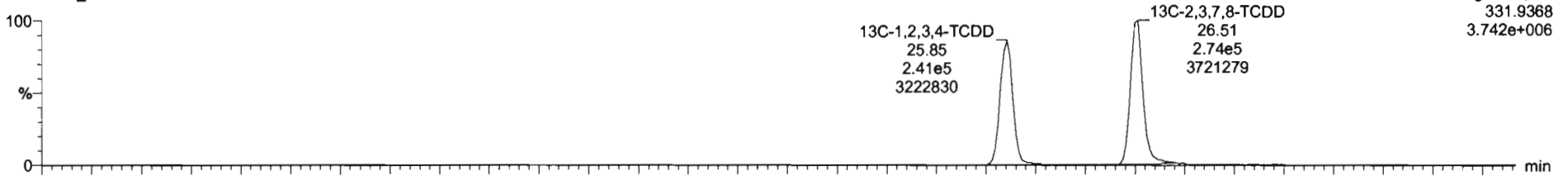
**37Cl-2,3,7,8-TCDD**

200604R1\_1

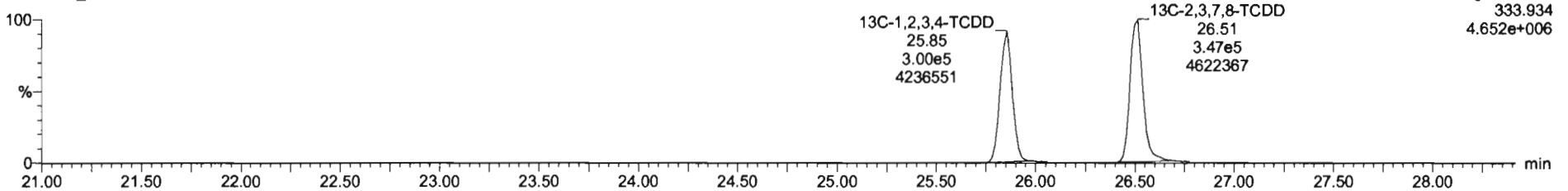


**13C-1,2,3,4-TCDD**

200604R1\_1



200604R1\_1



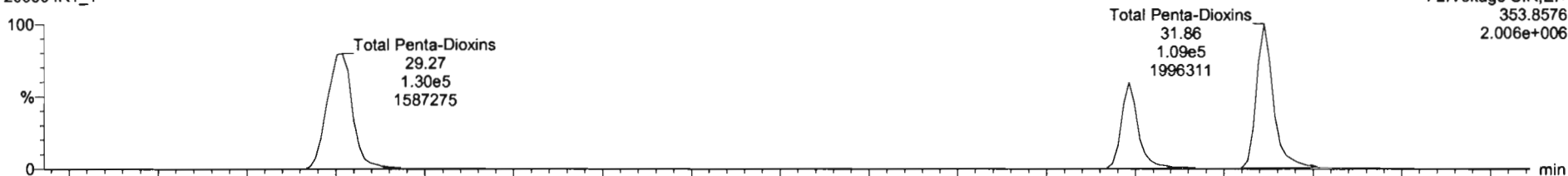
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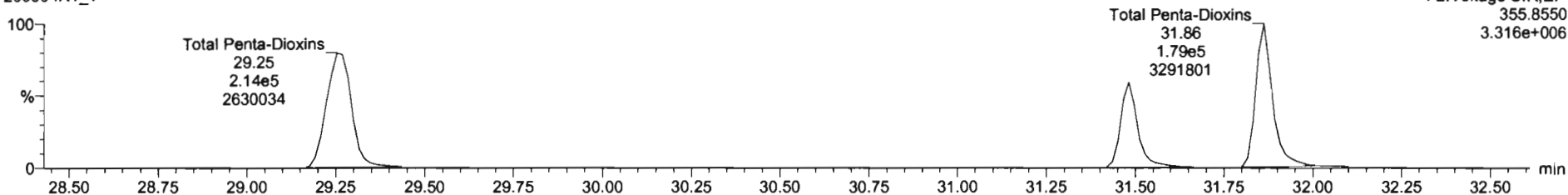
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1,2,3,7,8-PeCDD

200604R1\_1

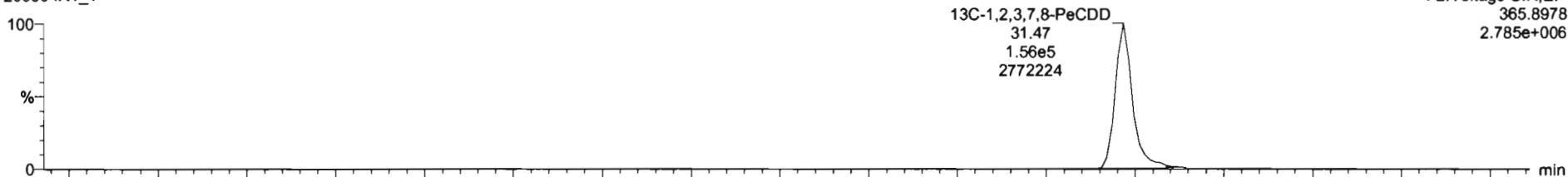


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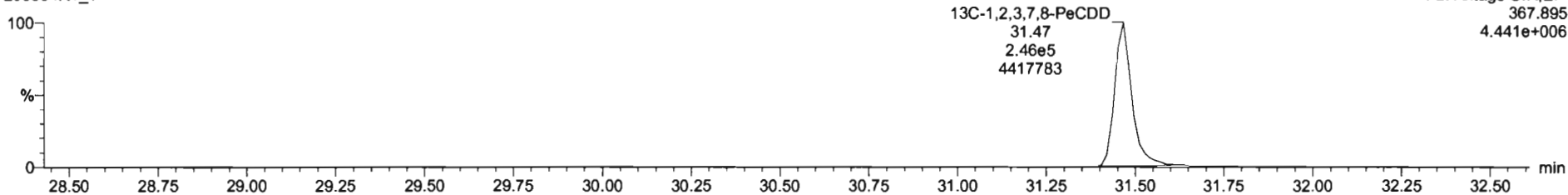


13C-1,2,3,7,8-PeCDD

200604R1\_1



200604R1\_1



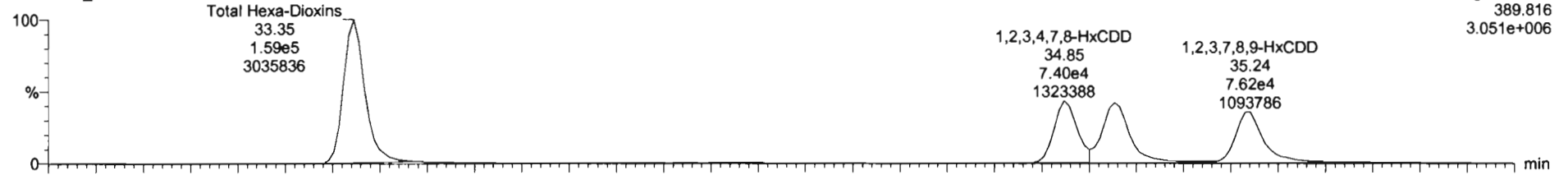
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Printed: Thursday, June 04, 2020 09:03:43 Pacific Daylight Time

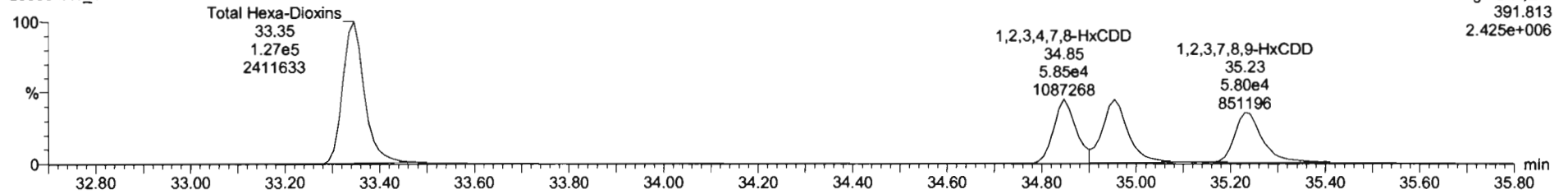
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1,2,3,4,7,8-HxCDD

200604R1\_1

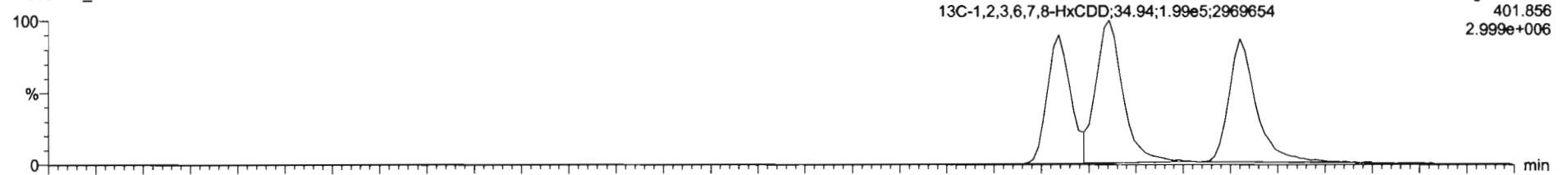


200604R1\_1

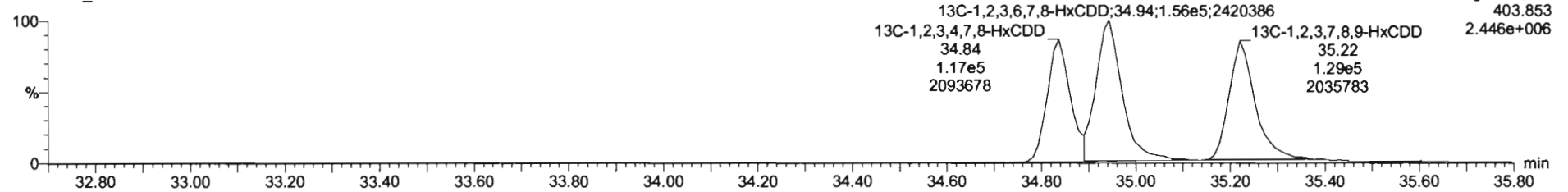


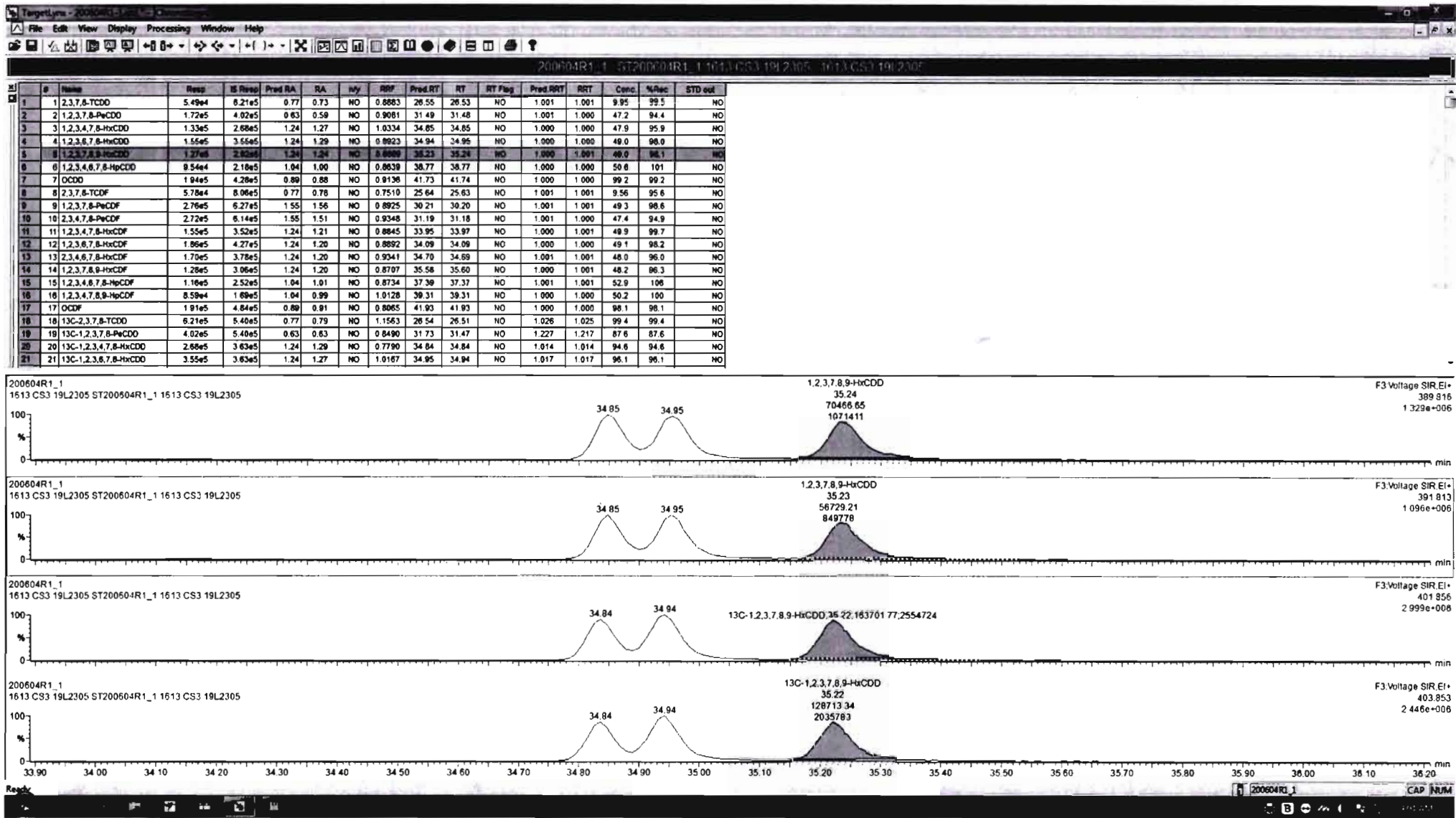
13C-1,2,3,4,7,8-HxCDD

200604R1\_1



200604R1\_1





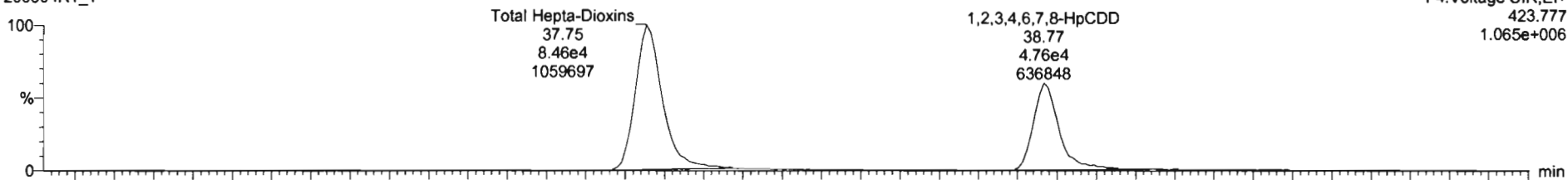
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Last Altered: Thursday, June 04, 2020 09:03:38 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 09:03:43 Pacific Daylight Time

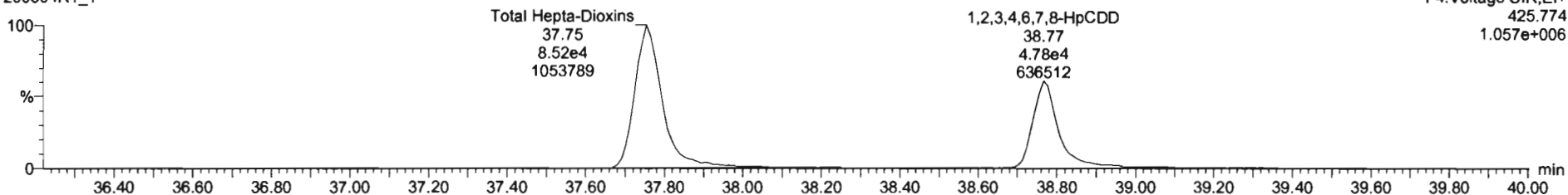
Name: 200604R1\_1, Date: 04-Jun-2020, Time: 08:13:02, ID: ST200604R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200604R1\_1

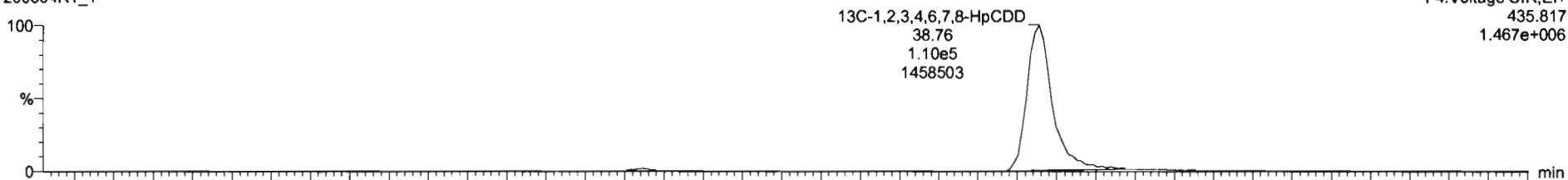


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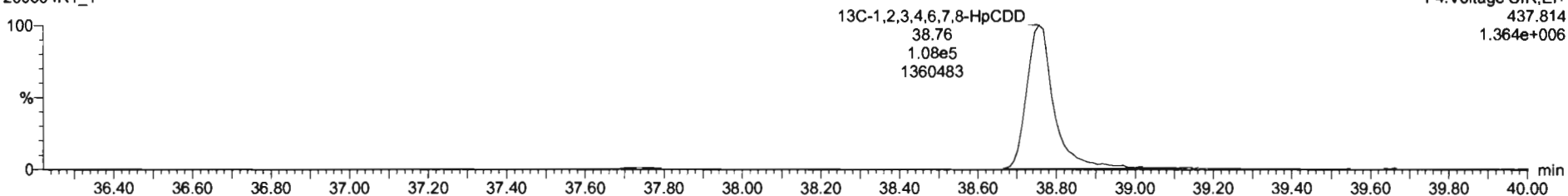


13C-1,2,3,4,6,7,8-HpCDD

200604R1\_1

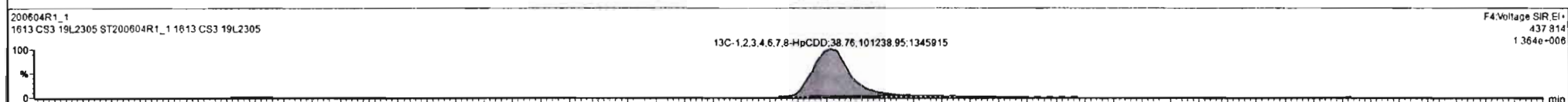
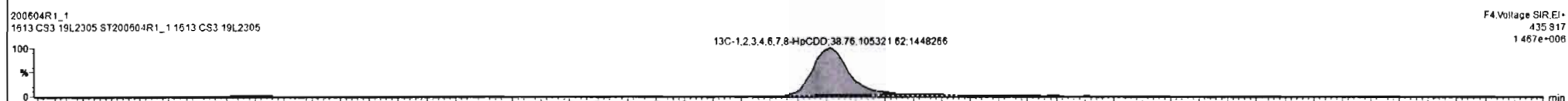
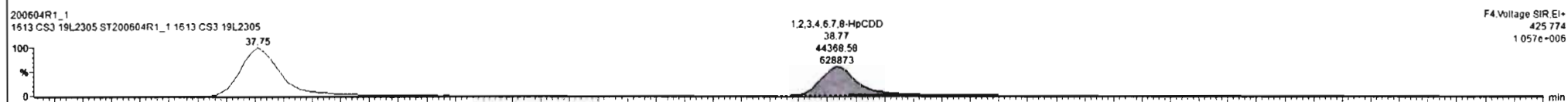
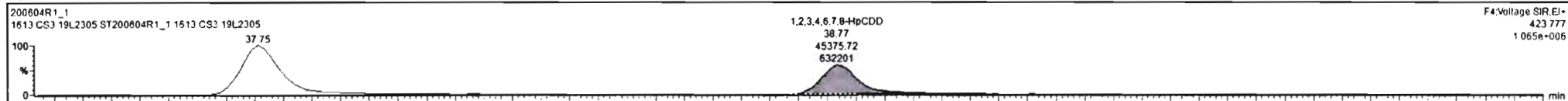


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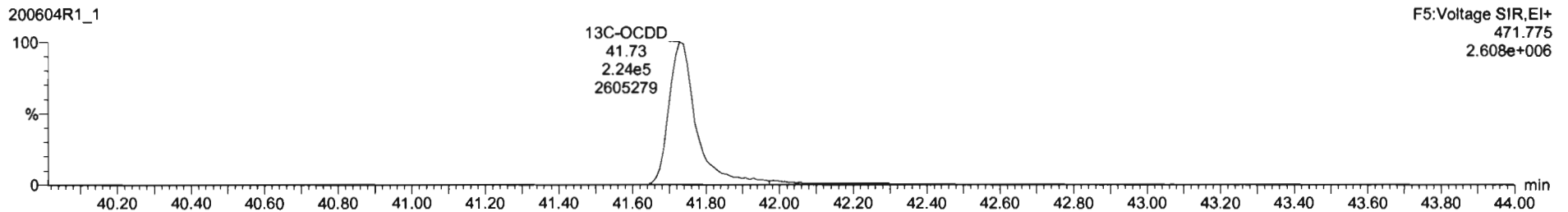
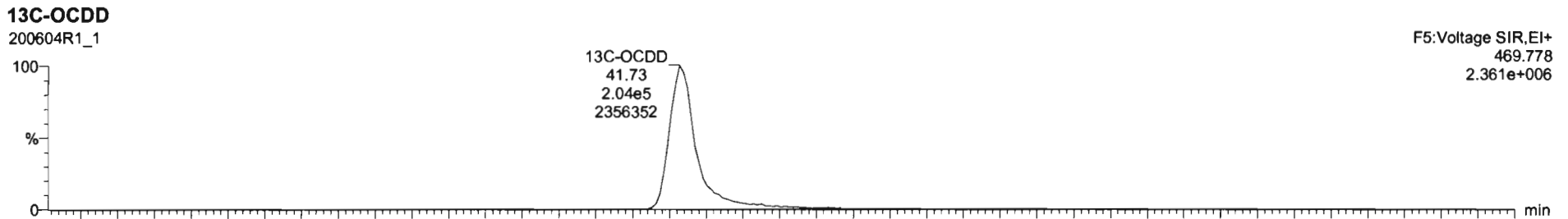
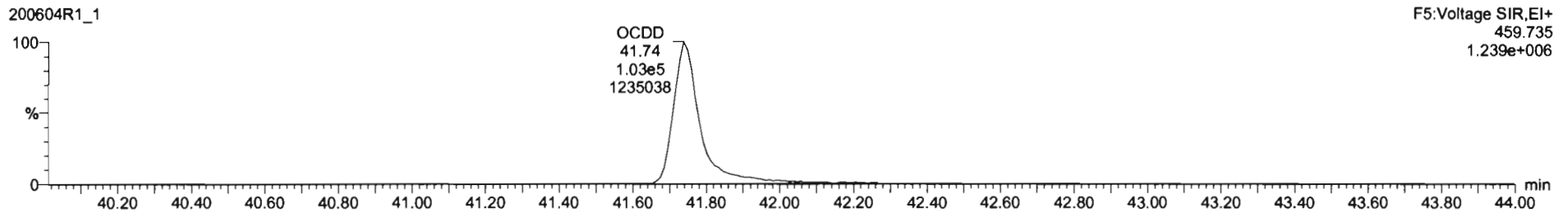
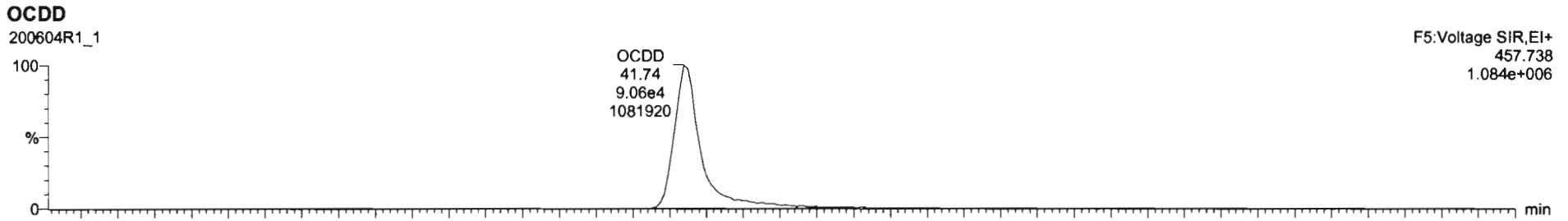
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1	1,2,3,7,8-TCDD	5.49e4	6.21e5	0.77	0.73	NO	0.8883	26.55	26.53	NO	1.001	1.001	9.95	99.5	NO
2	1,2,3,7,8-PeCDD	1.72e5	4.02e5	0.63	0.59	NO	0.9081	31.49	31.48	NO	1.001	1.000	47.2	94.4	NO
3	1,2,3,4,7,8-HxCDD	1.33e5	2.68e5	1.24	1.27	NO	1.0334	34.85	34.85	NO	1.000	1.000	47.9	95.9	NO
4	1,2,3,6,7,8-HxCDD	1.55e5	3.55e5	1.24	1.29	NO	0.8923	34.94	34.95	NO	1.000	1.000	49.0	96.0	NO
5	1,2,3,7,8,9-HxCDD	1.27e5	2.92e5	1.24	1.24	NO	0.8889	35.23	35.24	NO	1.000	1.001	49.0	98.1	NO
6	1,2,3,4,6,7,8-HpCDD	8.97e4	2.97e5	1.84	1.82	NO	0.9839	38.77	38.77	NO	1.000	1.000	86.3	101	NO
7	OCDD	1.84e5	4.28e5	0.88	0.88	NO	0.9136	41.73	41.74	NO	1.000	1.000	99.2	99.2	NO
8	2,3,7,8-TCDF	5.78e4	8.06e5	0.77	0.78	NO	0.7510	25.64	25.83	NO	1.001	1.001	9.56	95.6	NO
9	1,2,3,7,8-PeCDF	2.76e5	6.27e5	1.55	1.56	NO	0.8925	30.21	30.20	NO	1.001	1.001	49.3	98.6	NO
10	1,2,3,4,7,8-PeCDF	2.72e5	6.14e5	1.55	1.51	NO	0.9348	31.19	31.18	NO	1.001	1.000	47.4	94.9	NO
11	1,2,3,4,7,8-HxCDF	1.55e5	3.52e5	1.24	1.21	NO	0.8845	33.95	33.97	NO	1.000	1.001	49.9	99.7	NO
12	1,2,3,6,7,8-HxCDF	1.86e5	4.27e5	1.24	1.20	NO	0.8892	34.09	34.09	NO	1.000	1.000	49.1	98.2	NO
13	1,2,3,4,6,7,8-HxCDF	1.70e5	3.78e5	1.24	1.20	NO	0.9341	34.70	34.69	NO	1.001	1.001	48.0	96.0	NO
14	1,2,3,7,8,9-HxCDF	1.28e5	3.06e5	1.24	1.20	NO	0.8707	35.58	35.60	NO	1.000	1.001	48.2	96.3	NO
15	1,2,3,4,6,7,8-HpCDF	1.16e5	2.52e5	1.04	1.01	NO	0.8734	37.39	37.37	NO	1.001	1.001	52.9	108	NO
16	1,2,3,4,7,8,9-HpCDF	8.59e4	1.69e5	1.04	0.99	NO	1.0128	39.31	39.31	NO	1.000	1.000	50.2	100	NO
17	OCDF	1.81e5	4.84e5	0.89	0.91	NO	0.8065	41.93	41.93	NO	1.000	1.000	98.1	98.1	NO
18	13C-2,3,7,8-TCDD	6.21e5	5.40e5	0.77	0.79	NO	1.1563	26.54	26.51	NO	1.026	1.025	99.4	99.4	NO
19	13C-1,2,3,7,8-PeCDD	4.02e5	5.40e5	0.63	0.63	NO	0.8490	31.73	31.47	NO	1.227	1.217	87.6	87.6	NO
20	13C-1,2,3,4,7,8-HxCDD	2.68e5	3.63e5	1.24	1.29	NO	0.7790	34.84	34.84	NO	1.014	1.014	94.6	94.6	NO
21	13C-1,2,3,6,7,8-HxCDD	3.55e5	3.63e5	1.24	1.27	NO	1.0167	34.95	34.94	NO	1.017	1.017	96.1	96.1	NO

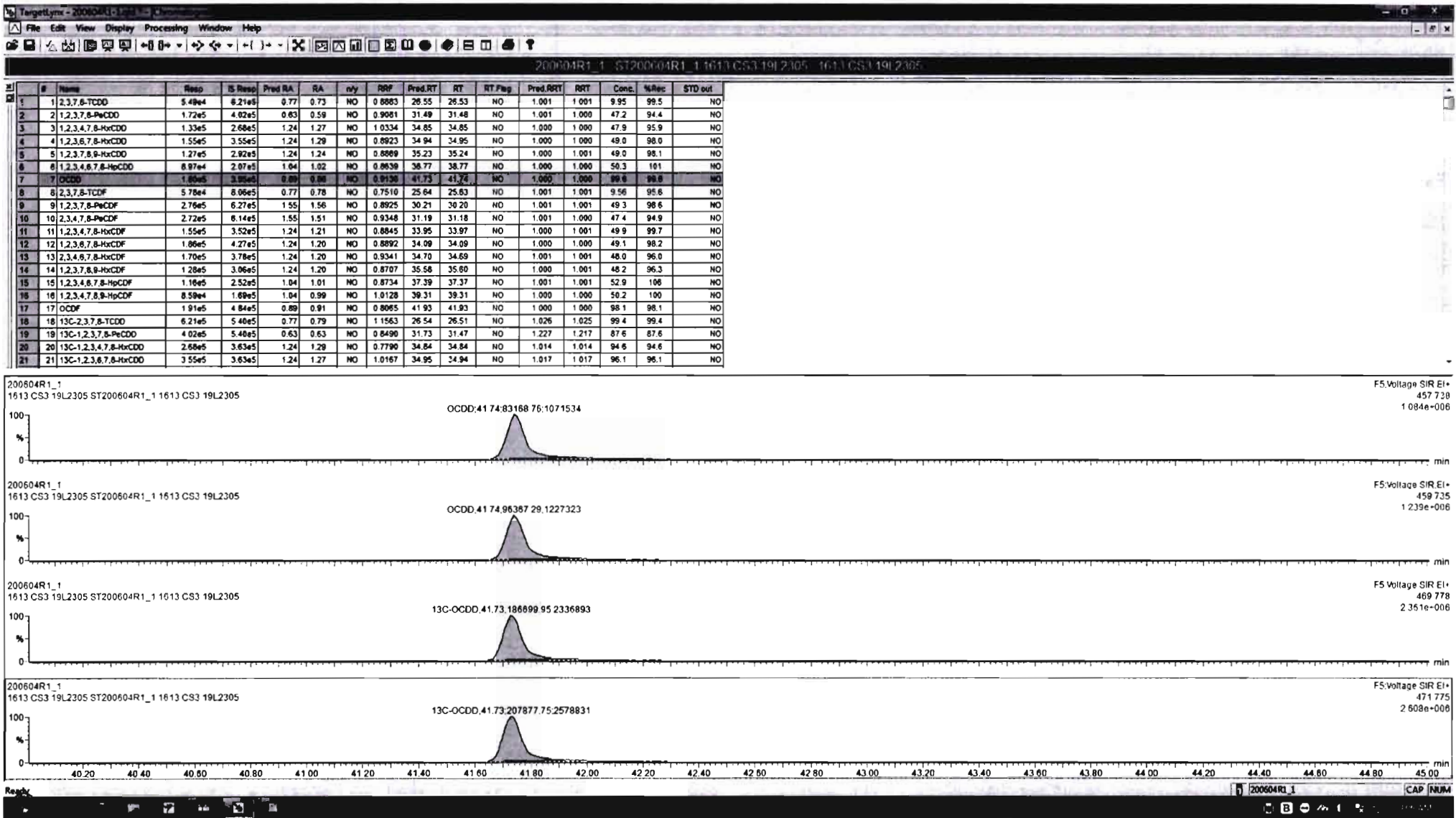


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Last Altered: Thursday, June 04, 2020 09:03:38 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 09:03:43 Pacific Daylight Time

Name: 200604R1\_1, Date: 04-Jun-2020, Time: 08:13:02, ID: ST200604R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305





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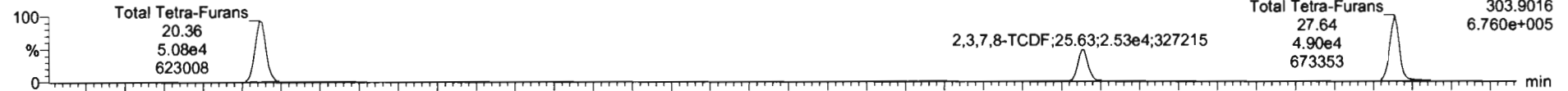
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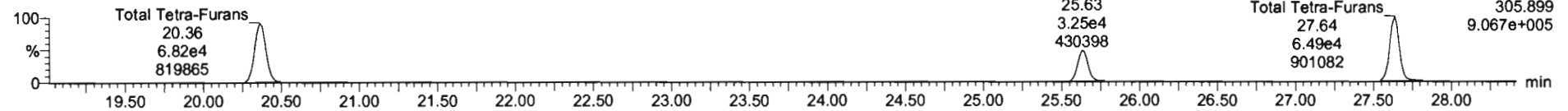
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**2,3,7,8-TCDF**

200604R1\_1

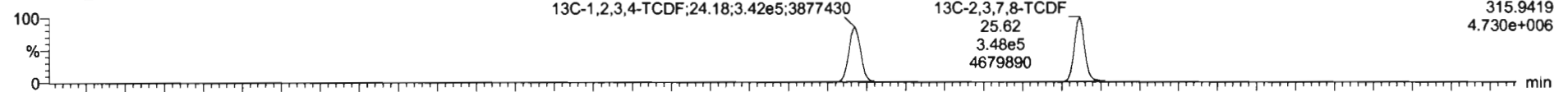


200604R1\_1

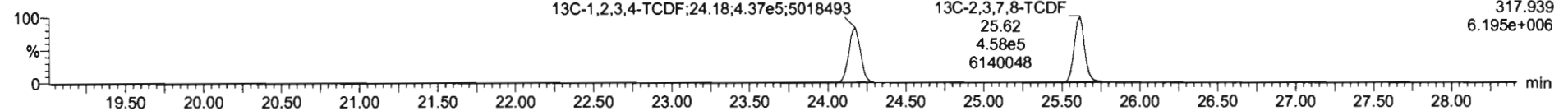


**13C-2,3,7,8-TCDF**

200604R1\_1

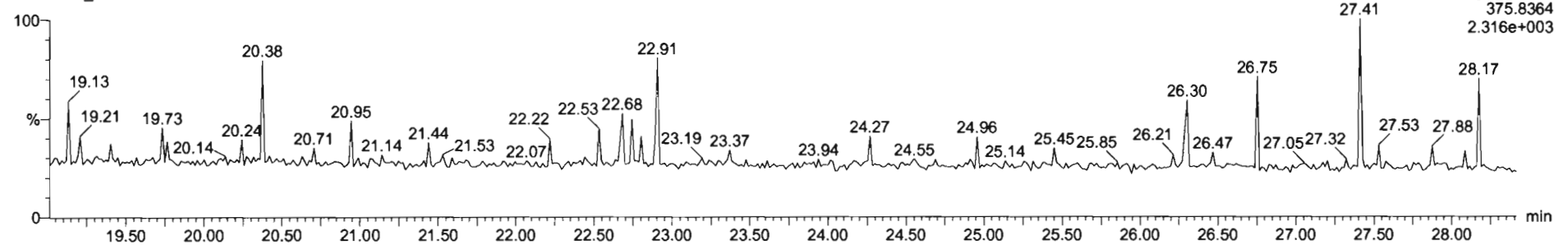


200604R1\_1



**DPE1**

200604R1\_1



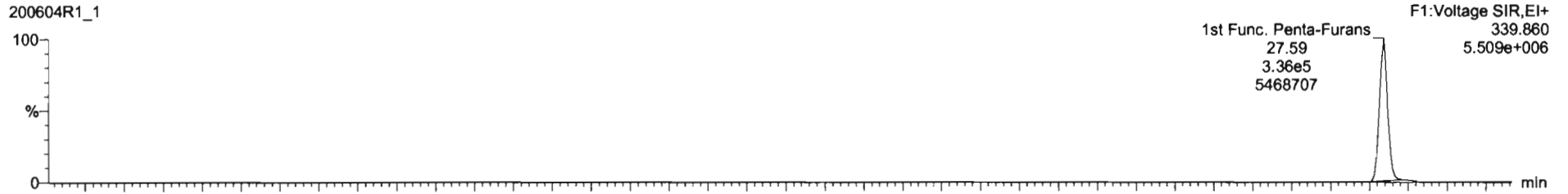
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Printed: Thursday, June 04, 2020 09:03:43 Pacific Daylight Time

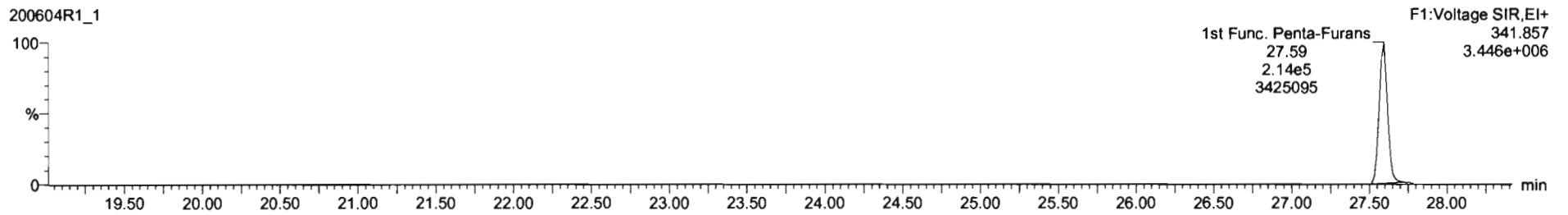
Name: 200604R1\_1, Date: 04-Jun-2020, Time: 08:13:02, ID: ST200604R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200604R1\_1

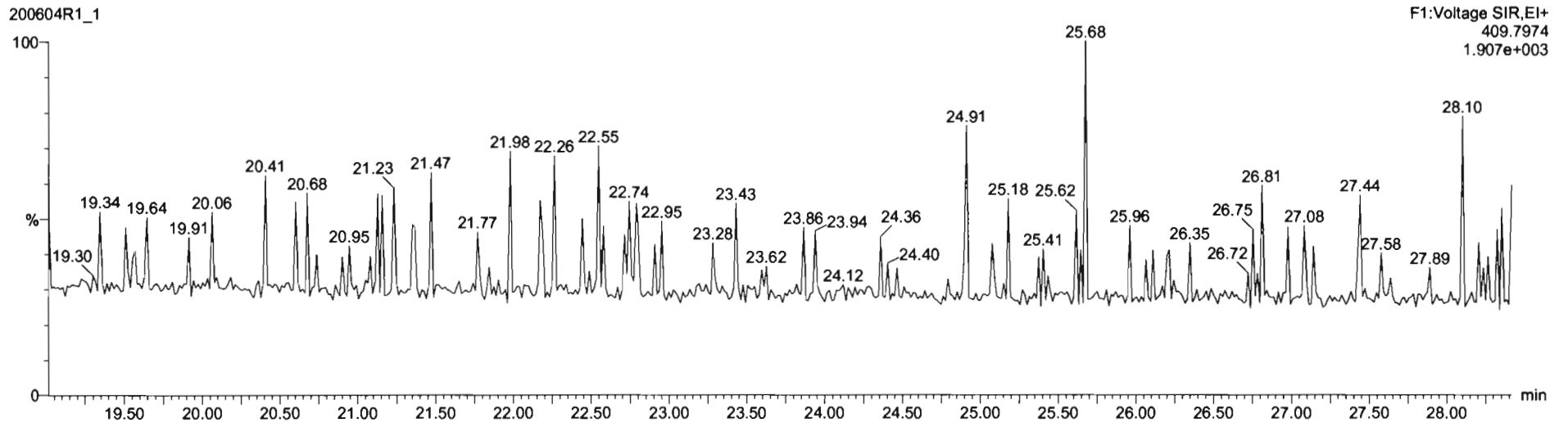


200604R1\_1



DPE6

200604R1\_1





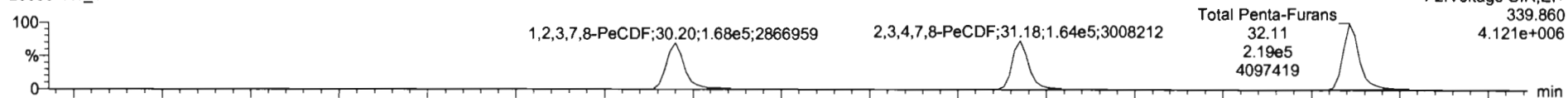
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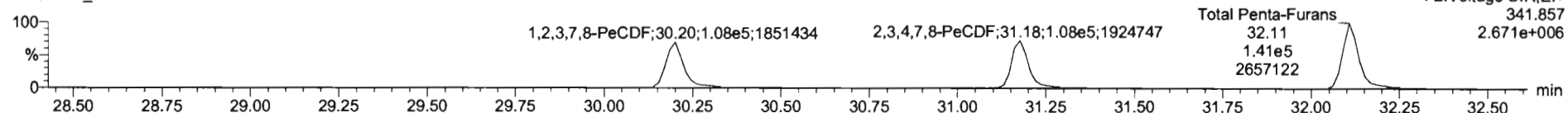
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**1,2,3,7,8-PeCDF**

200604R1\_1

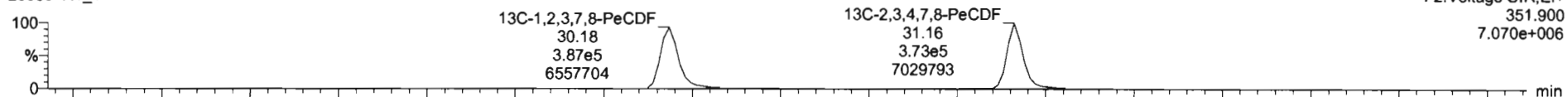


200604R1\_1

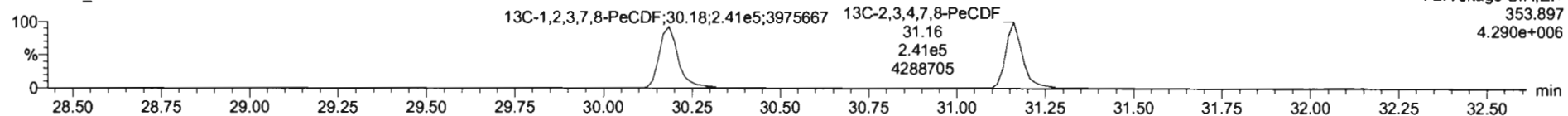


**13C-1,2,3,7,8-PeCDF**

200604R1\_1

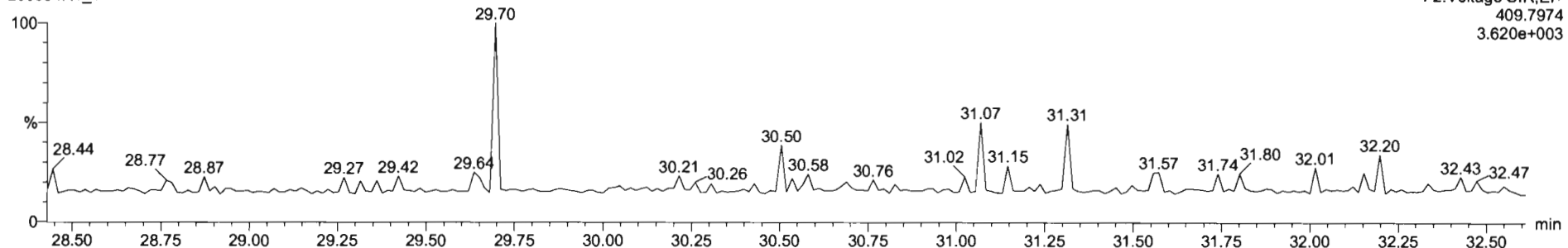


200604R1\_1



**DPE2**

200604R1\_1



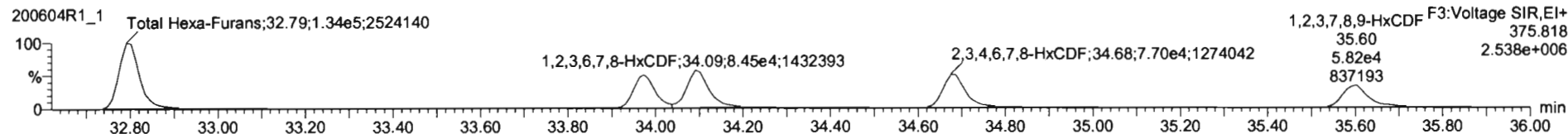
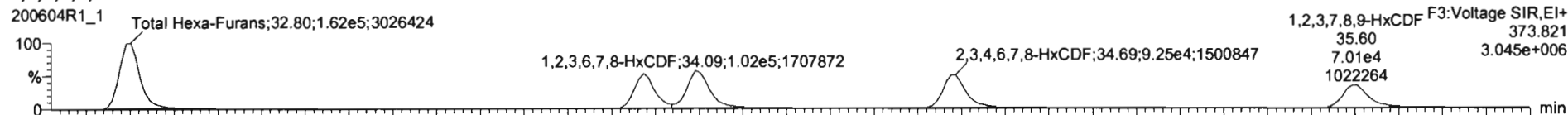


Dataset: Untitled

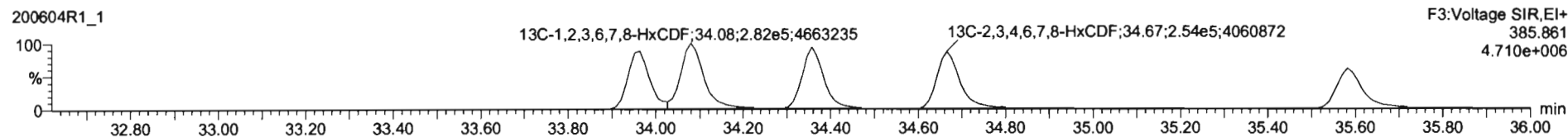
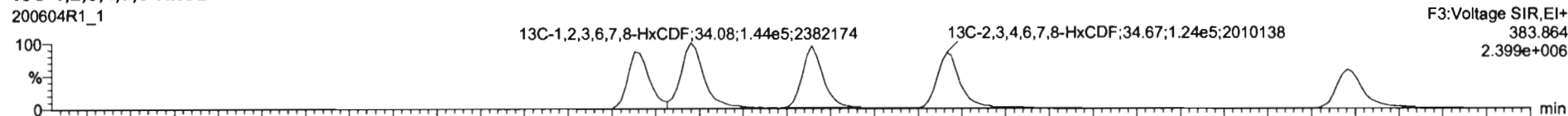
Last Altered: Thursday, June 04, 2020 09:03:38 Pacific Daylight Time  
Printed: Thursday, June 04, 2020 09:03:43 Pacific Daylight Time

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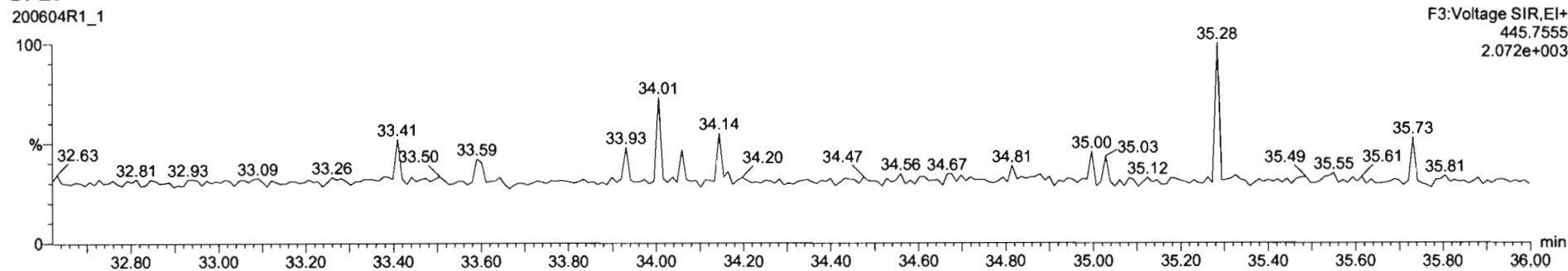
**1,2,3,4,7,8-HxCDF**



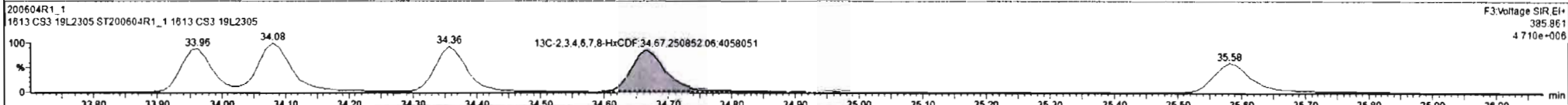
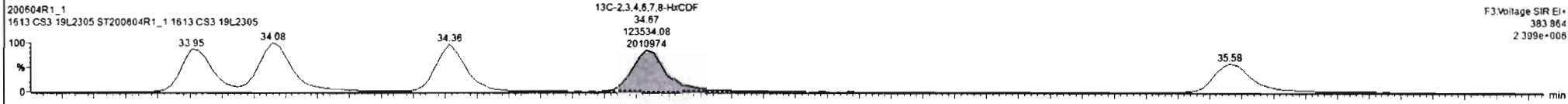
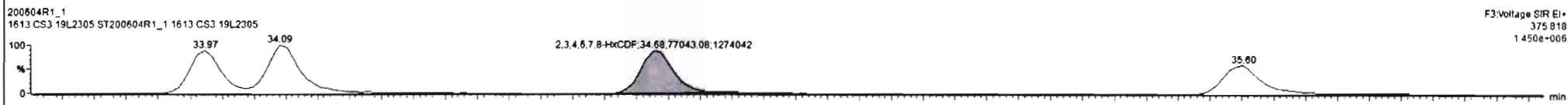
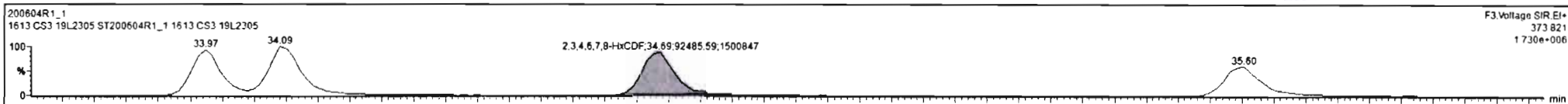
**13C-1,2,3,4,7,8-HxCDF**



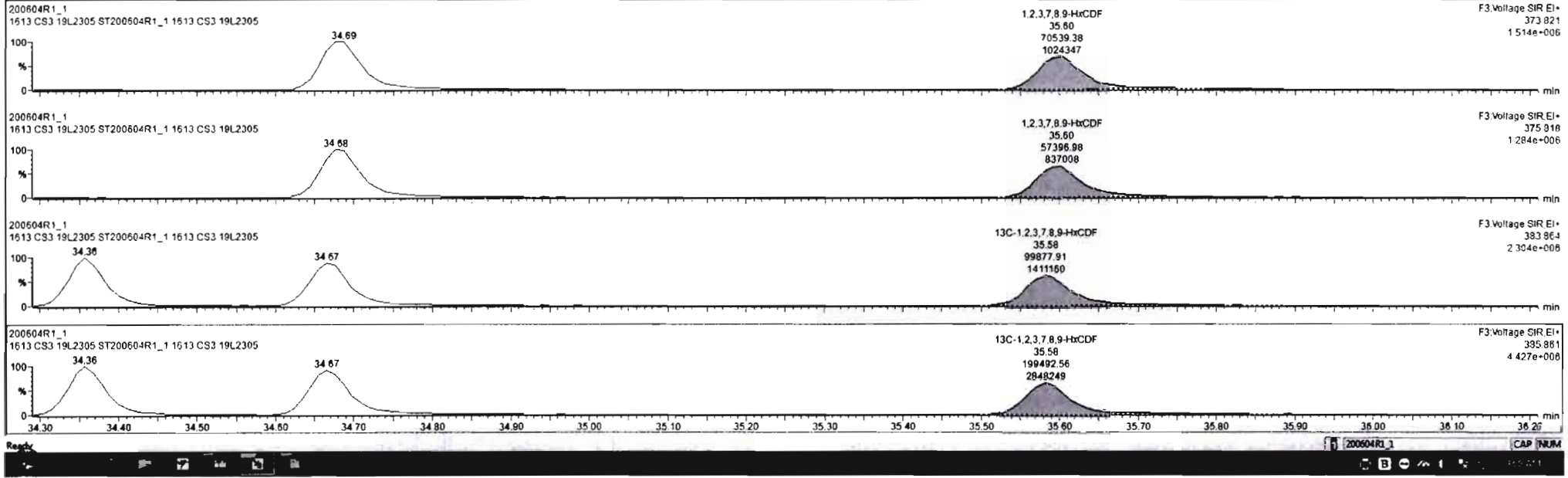
**DPE3**



#	Name	Resp	IS Resp	Pred RA	RA	rv	RPF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	5.49e4	6.21e5	0.77	0.73	NO	0.8883	26.55	26.53	NO	1.001	1.001	9.95	99.5	NO
2	1,2,3,7,8-PeCDD	1.72e5	4.02e5	0.63	0.59	NO	0.9081	31.49	31.48	NO	1.001	1.000	47.2	94.4	NO
3	1,2,3,4,7,8-HxCDD	1.33e5	2.66e5	1.24	1.27	NO	1.0334	34.85	34.85	NO	1.000	1.000	47.9	95.9	NO
4	1,2,3,6,7,8-HxCDD	1.55e5	3.55e5	1.24	1.29	NO	0.8923	34.94	34.95	NO	1.000	1.000	49.0	98.0	NO
5	1,2,3,7,8,9-HxCDD	1.27e5	2.92e5	1.24	1.24	NO	0.8869	35.23	35.24	NO	1.000	1.001	49.0	98.1	NO
6	1,2,3,4,6,7,8-HpCDD	8.97e4	2.07e5	1.04	1.02	NO	0.9539	36.77	36.77	NO	1.000	1.000	50.3	101	NO
7	OCDD	1.80e5	3.95e5	0.89	0.86	NO	0.9136	41.73	41.74	NO	1.000	1.000	99.6	99.6	NO
8	2,3,7,8-TCDF	5.78e4	8.06e5	0.77	0.78	NO	0.7510	25.64	25.83	NO	1.001	1.001	9.56	95.6	NO
9	1,2,3,7,8-PeCDF	2.76e5	6.27e5	1.55	1.56	NO	0.8925	30.21	30.20	NO	1.001	1.001	49.3	98.6	NO
10	2,3,4,7,8-PeCDF	2.72e5	6.14e5	1.55	1.51	NO	0.9348	31.19	31.18	NO	1.001	1.000	47.4	94.9	NO
11	1,2,3,4,7,8-HxCDF	1.55e5	3.52e5	1.24	1.21	NO	0.8845	33.95	33.97	NO	1.000	1.001	49.9	99.7	NO
12	1,2,3,6,7,8-HxCDF	1.96e5	4.27e5	1.24	1.20	NO	0.8892	34.09	34.09	NO	1.000	1.000	49.1	98.2	NO
13	2,3,4,6,7,8-HxCDF	1.70e5	3.74e5	1.24	1.20	NO	0.9341	34.78	34.69	NO	1.001	1.001	48.5	97.9	NO
14	1,2,3,7,8,9-HxCDF	1.28e5	3.06e5	1.24	1.20	NO	0.8707	35.58	35.60	NO	1.000	1.001	48.2	96.3	NO
15	1,2,3,4,6,7,8-HpCDF	1.16e5	2.52e5	1.04	1.01	NO	0.8734	37.39	37.37	NO	1.001	1.001	52.9	106	NO
16	1,2,3,4,7,8,9-HpCDF	8.59e4	1.69e5	1.04	0.99	NO	1.0128	39.31	39.31	NO	1.000	1.000	50.2	100	NO
17	OCDF	1.91e5	4.84e5	0.89	0.91	NO	0.8085	41.93	41.93	NO	1.000	1.000	98.1	98.1	NO
18	13C-2,3,7,8-TCDD	6.21e5	5.40e5	0.77	0.79	NO	1.1563	26.54	26.51	NO	1.026	1.025	99.4	99.4	NO
19	13C-1,2,3,7,8-PeCDD	4.02e5	5.40e5	0.63	0.63	NO	0.8490	31.73	31.47	NO	1.227	1.217	87.6	87.6	NO
20	13C-1,2,3,4,7,8-HxCDD	2.66e5	3.63e5	1.24	1.29	NO	0.7790	34.84	34.84	NO	1.014	1.014	94.6	94.6	NO
21	13C-1,2,3,6,7,8-HxCDD	3.55e5	3.63e5	1.24	1.27	NO	1.0167	34.95	34.94	NO	1.017	1.017	96.1	96.1	NO



#	#	Name	Resp	IS Resp	Prod RA	RA	n/y	RRF	Prod RT	RT	RT Flag	Prod RRT	RRT	Conc	%Rec	STD out
1	1	2,3,7,8-TCDD	5.49e4	6.21e5	0.77	0.73	NO	0.6883	26.55	26.53	NO	1.001	1.001	9.95	99.5	NO
2	2	1,2,3,7,8-PeCDD	1.72e5	4.02e5	0.63	0.59	NO	0.9061	31.49	31.48	NO	1.001	1.000	47.2	94.4	NO
3	3	1,2,3,4,7,8-HxCDD	1.33e5	2.66e5	1.24	1.27	NO	1.0334	34.85	34.85	NO	1.000	1.000	47.9	95.9	NO
4	4	1,2,3,6,7,8-HxCDD	1.55e5	3.55e5	1.24	1.29	NO	0.8923	34.94	34.95	NO	1.000	1.000	49.0	98.0	NO
5	5	1,2,3,7,8,9-HxCDD	1.27e5	2.92e5	1.24	1.24	NO	0.8869	35.23	35.24	NO	1.000	1.001	49.0	98.1	NO
6	6	1,2,3,4,8,9-HxCDD	8.97e4	2.07e5	1.04	1.02	NO	0.8639	38.77	38.77	NO	1.000	1.000	50.3	101	NO
7	7	OCDD	1.80e5	3.95e5	0.89	0.86	NO	0.9136	41.73	41.74	NO	1.000	1.000	99.8	99.8	NO
8	8	2,3,7,8-TCDF	5.78e4	6.06e5	0.77	0.78	NO	0.7510	25.64	25.63	NO	1.001	1.001	9.56	95.6	NO
9	9	1,2,3,7,8-PeCDF	2.76e5	6.27e5	1.55	1.56	NO	0.8925	30.21	30.20	NO	1.001	1.001	49.3	98.6	NO
10	10	2,3,4,7,8-PeCDF	2.72e5	6.14e5	1.55	1.51	NO	0.9348	31.19	31.18	NO	1.001	1.000	47.4	94.9	NO
11	11	1,2,3,4,7,8-HxCDF	1.55e5	3.52e5	1.24	1.21	NO	0.8845	33.95	33.97	NO	1.000	1.001	49.9	99.7	NO
12	12	1,2,3,6,7,8-HxCDF	1.86e5	4.27e5	1.24	1.20	NO	0.8892	34.09	34.09	NO	1.000	1.000	49.1	98.2	NO
13	13	2,3,4,6,7,8-HxCDF	1.70e5	3.74e5	1.24	1.20	NO	0.9341	34.70	34.69	NO	1.001	1.001	48.5	97.9	NO
14	14	1,2,3,7,8,9-HxCDF	1.28e5	2.89e5	1.24	1.23	NO	0.8707	35.58	35.80	NO	1.000	1.001	48.1	98.2	NO
15	15	1,2,3,4,8,9-HpCDF	1.16e5	2.52e5	1.04	1.01	NO	0.8734	37.39	37.37	NO	1.001	1.001	52.9	106	NO
16	16	1,2,3,4,7,8,9-HpCDF	8.58e4	1.69e5	1.04	0.99	NO	1.0128	39.31	39.31	NO	1.000	1.000	50.2	100	NO
17	17	OCDF	1.91e5	4.84e5	0.89	0.91	NO	0.8065	41.93	41.93	NO	1.000	1.000	98.1	98.1	NO
18	18	13C-2,3,7,8-TCDD	8.21e5	5.40e5	0.77	0.79	NO	1.1563	26.54	26.51	NO	1.026	1.025	99.4	99.4	NO
19	19	13C-1,2,3,7,8-PeCDD	4.02e5	5.40e5	0.63	0.63	NO	0.8490	31.73	31.47	NO	1.227	1.217	87.6	87.6	NO
20	20	13C-1,2,3,4,7,8-HxCDD	2.88e5	3.63e5	1.24	1.29	NO	0.7790	34.84	34.84	NO	1.014	1.014	94.6	94.6	NO
21	21	13C-1,2,3,6,7,8-HxCDD	3.55e5	3.63e5	1.24	1.27	NO	1.0167	34.95	34.94	NO	1.017	1.017	96.1	96.1	NO



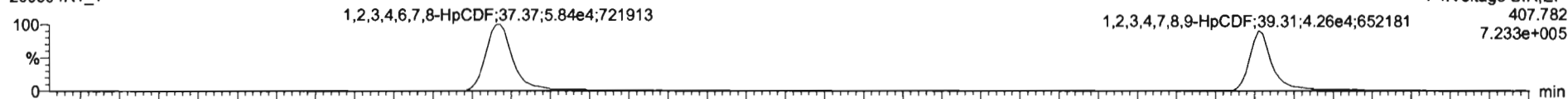
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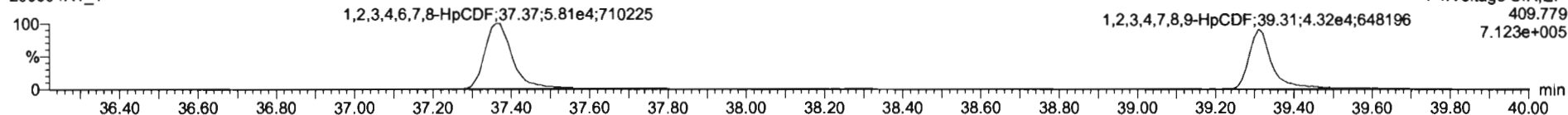
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**1,2,3,4,6,7,8-HpCDF**

200604R1\_1

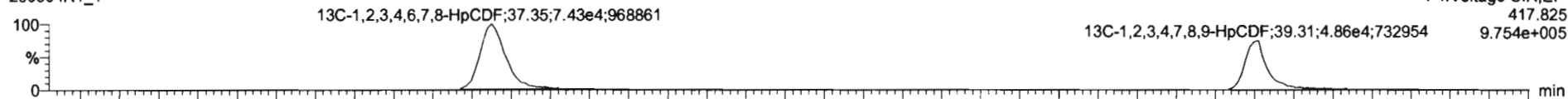


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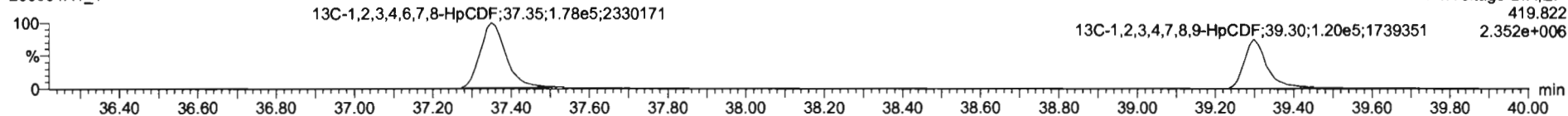


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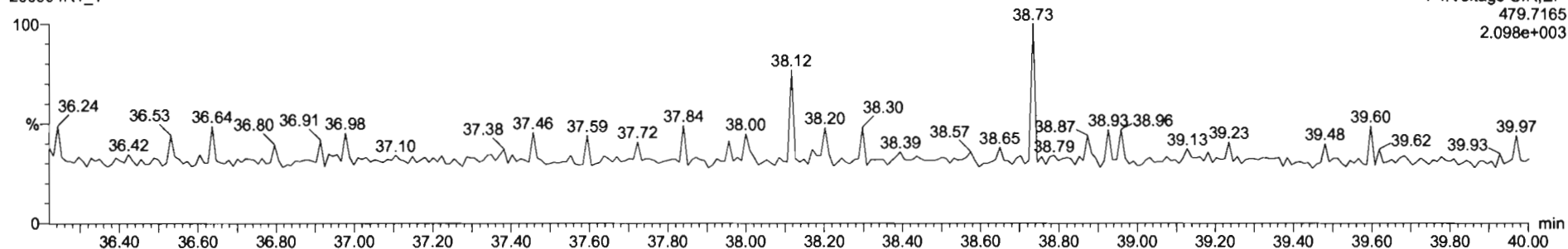


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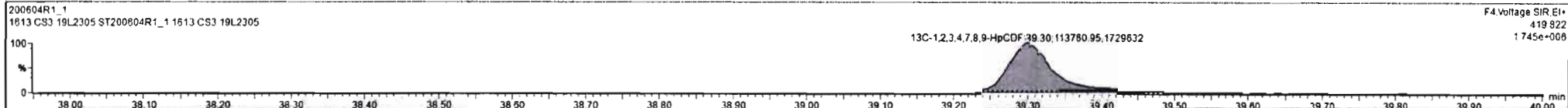
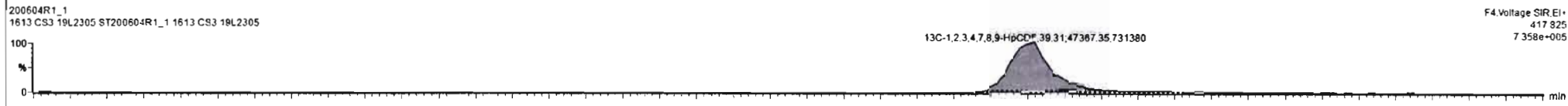
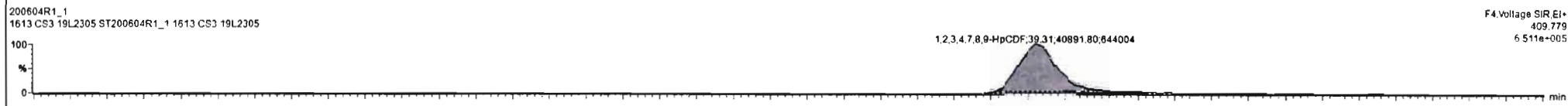
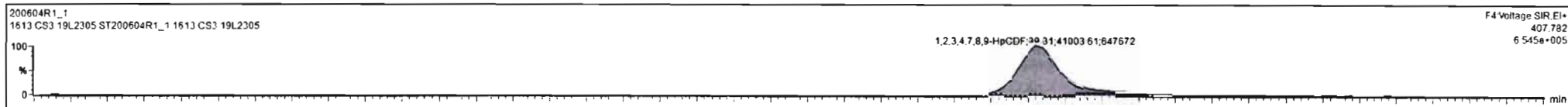


**DPE4**

200604R1\_1



#	Name	Resp	IS Resp	Pred RA	RA	isy	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	5.49e4	6.21e5	0.77	0.73	NO	0.8883	26.55	26.53	NO	1.001	1.001	9.95	99.5	NO
2	1,2,3,7,8-PeCDD	1.72e5	4.02e5	0.63	0.59	NO	0.9081	31.49	31.48	NO	1.001	1.000	47.2	94.4	NO
3	1,2,3,4,7,8-HxCDD	1.33e5	2.68e5	1.24	1.27	NO	1.0334	34.85	34.85	NO	1.000	1.000	47.9	95.9	NO
4	1,2,3,6,7,8-HxCDD	1.55e5	3.55e5	1.24	1.29	NO	0.8923	34.94	34.95	NO	1.000	1.000	49.0	98.0	NO
5	1,2,3,7,8,9-HxCDD	1.27e5	2.92e5	1.24	1.24	NO	0.8889	35.23	35.24	NO	1.000	1.001	49.0	98.1	NO
6	1,2,3,4,6,7,8-HpCDD	8.97e4	2.07e5	1.04	1.02	NO	0.9639	38.77	38.77	NO	1.000	1.000	50.3	101	NO
7	OCDD	1.80e5	3.95e5	0.89	0.88	NO	0.9136	41.73	41.74	NO	1.000	1.000	99.6	99.6	NO
8	1,2,3,7,8-TCDF	5.78e4	8.06e5	0.77	0.78	NO	0.7510	25.64	25.63	NO	1.001	1.001	9.56	95.6	NO
9	1,2,3,7,8-PeCDF	2.76e5	6.27e5	1.55	1.56	NO	0.8925	30.21	30.20	NO	1.001	1.001	49.3	98.6	NO
10	1,2,3,4,7,8-PeCDF	2.72e5	6.14e5	1.55	1.51	NO	0.9348	31.19	31.18	NO	1.001	1.000	47.4	94.9	NO
11	1,2,3,4,7,8-HxCDF	1.55e5	3.52e5	1.24	1.21	NO	0.8845	33.95	33.97	NO	1.000	1.001	49.9	99.7	NO
12	1,2,3,6,7,8-HxCDF	1.86e5	4.27e5	1.24	1.20	NO	0.8892	34.09	34.09	NO	1.000	1.000	49.1	98.2	NO
13	1,2,3,4,6,7,8-HxCDF	1.70e5	3.74e5	1.24	1.20	NO	0.9341	34.70	34.69	NO	1.001	1.001	48.5	97.0	NO
14	1,2,3,7,8,9-HxCDF	1.28e5	2.99e5	1.24	1.23	NO	0.8707	35.56	35.60	NO	1.000	1.001	49.1	98.2	NO
15	1,2,3,4,6,7,8-HpCDF	1.18e5	2.52e5	1.04	1.01	NO	0.8734	37.39	37.37	NO	1.001	1.001	52.9	106	NO
16	1,2,3,4,7,8,9-HpCDF	8.19e4	1.81e5	1.04	1.00	NO	1.0128	39.31	39.31	NO	1.000	1.000	90.2	100	NO
17	OCDF	1.91e5	4.84e5	0.89	0.91	NO	0.8065	41.93	41.93	NO	1.000	1.000	98.1	98.1	NO
18	13C-1,2,3,7,8-TCDD	6.21e5	5.40e5	0.77	0.79	NO	1.1563	26.54	26.51	NO	1.026	1.025	99.4	99.4	NO
19	13C-1,2,3,7,8-PeCDD	4.02e5	5.40e5	0.63	0.63	NO	0.8490	31.73	31.47	NO	1.227	1.217	87.6	87.6	NO
20	13C-1,2,3,4,7,8-HxCDD	2.68e5	3.63e5	1.24	1.29	NO	0.7790	34.84	34.84	NO	1.014	1.014	94.6	94.6	NO
21	13C-1,2,3,6,7,8-HxCDD	3.55e5	3.63e5	1.24	1.27	NO	1.0187	34.95	34.94	NO	1.017	1.017	96.1	96.1	NO



Ready

200604R1\_1

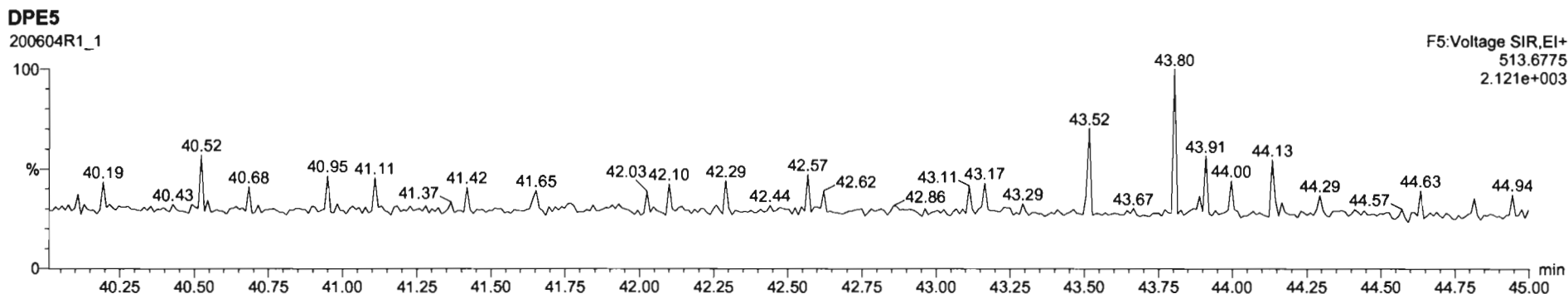
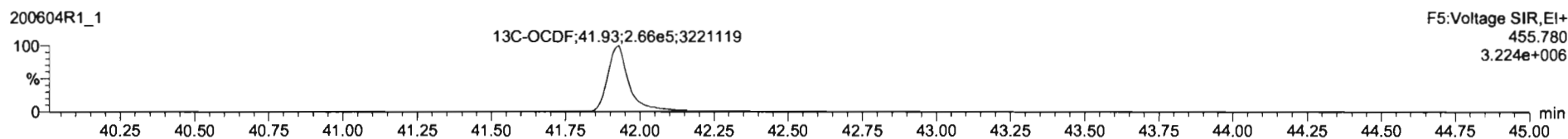
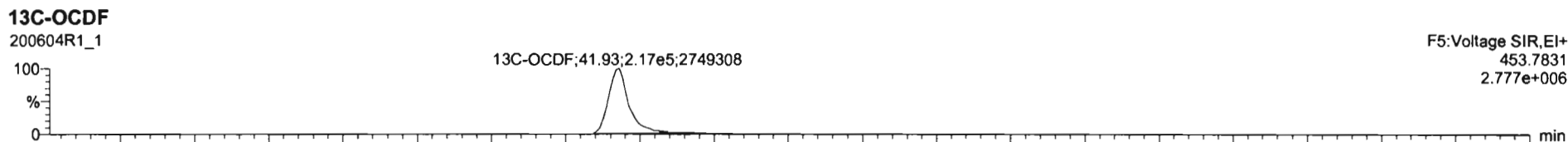
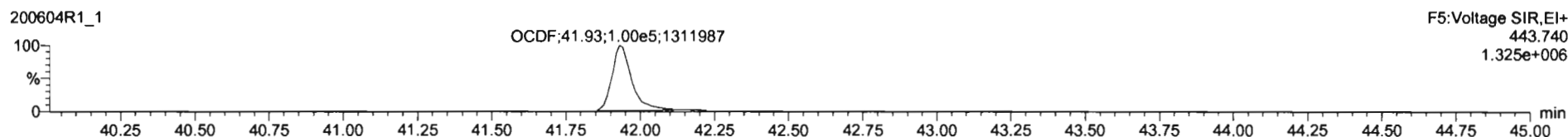
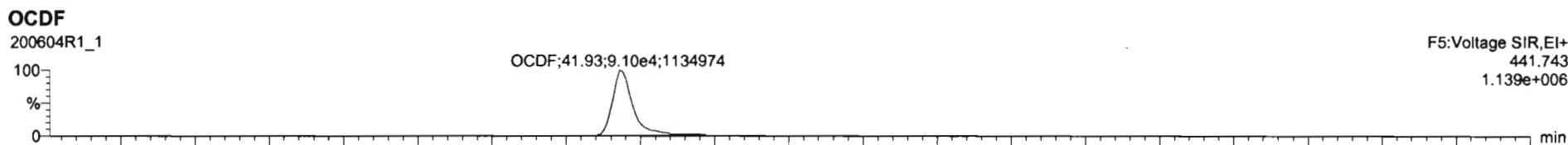
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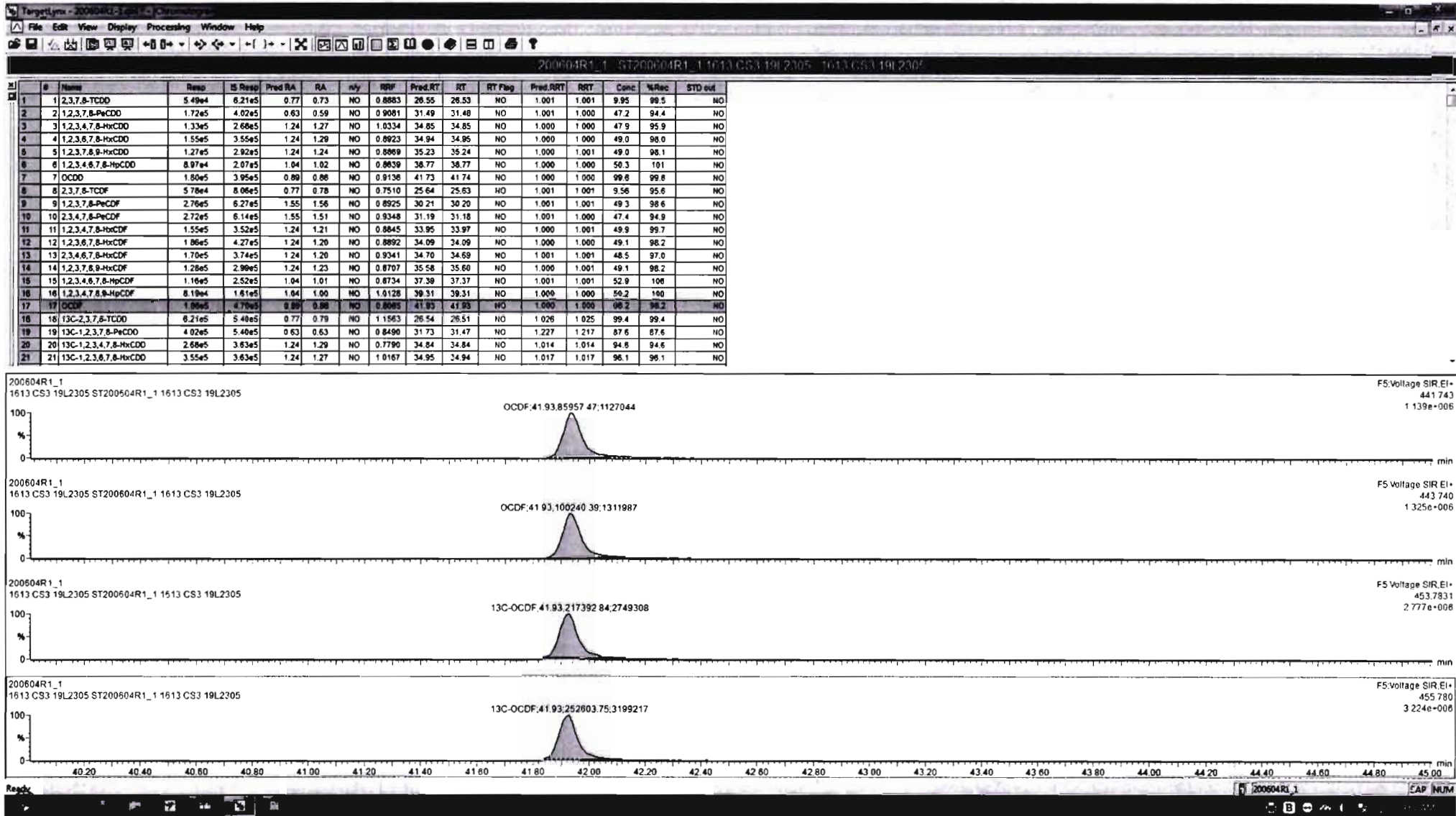
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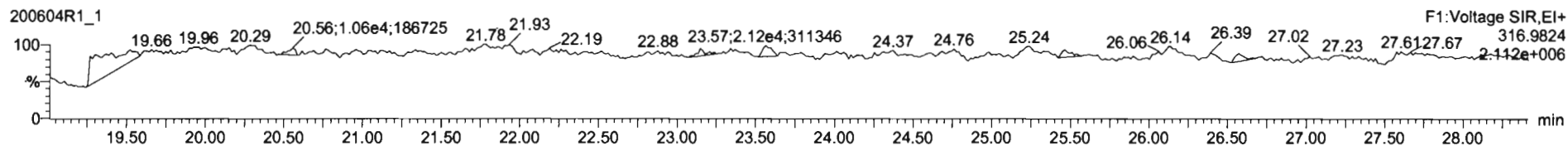
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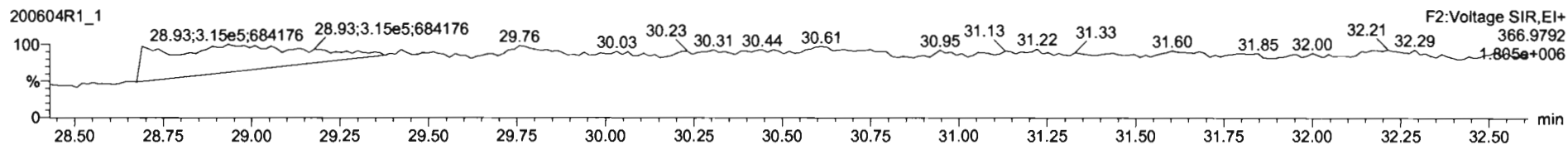
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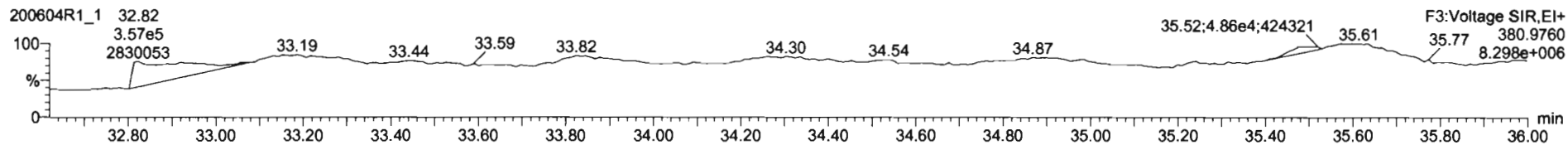
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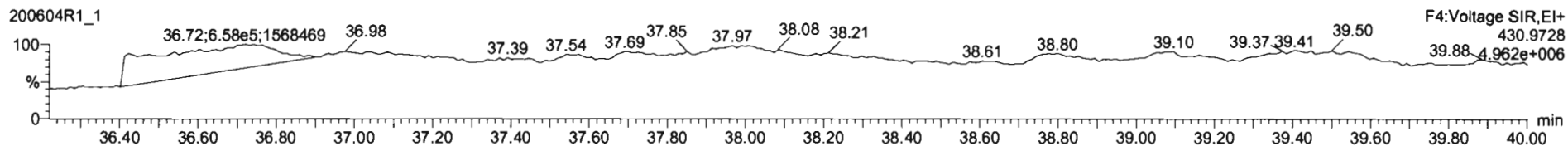
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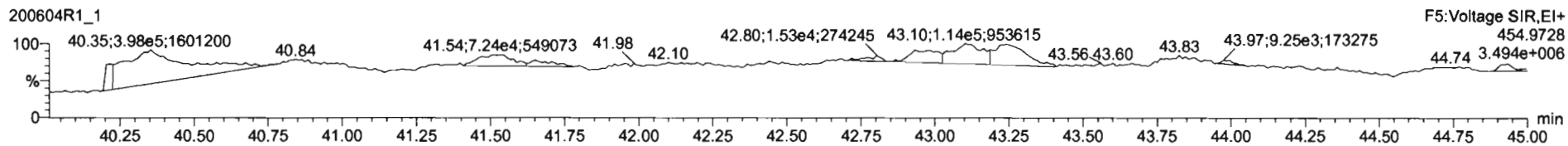
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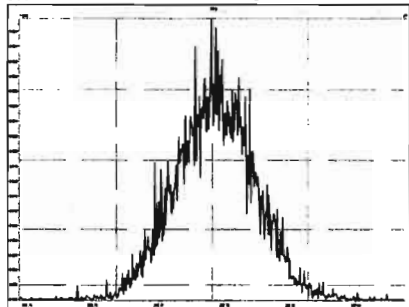


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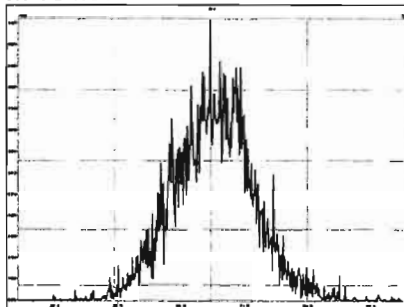


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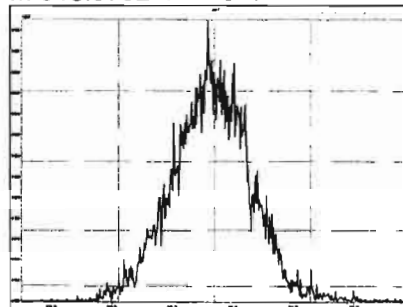
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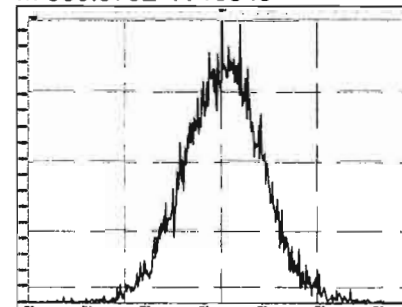
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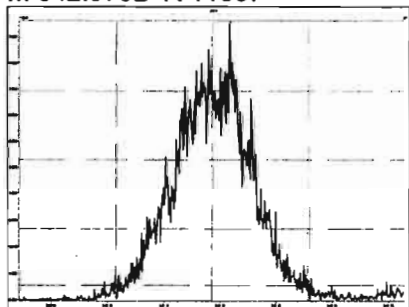
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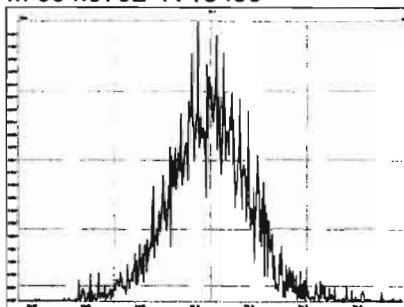
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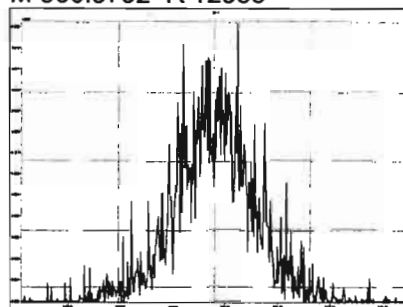
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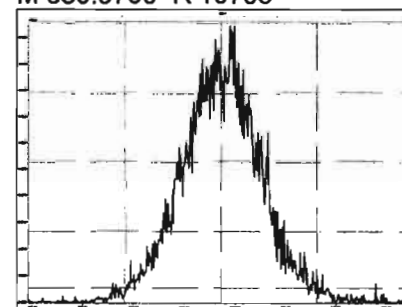
M 354.9792 R 13439



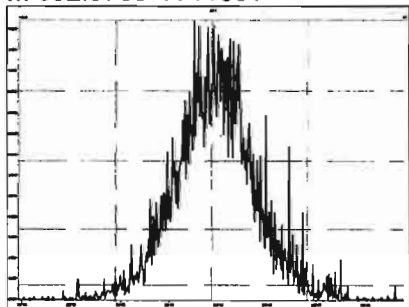
M 366.9792 R 12988



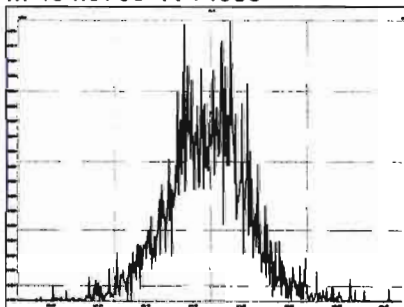
M 380.9760 R 10708



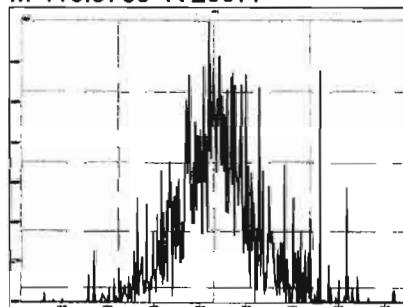
M 392.9760 R 11631



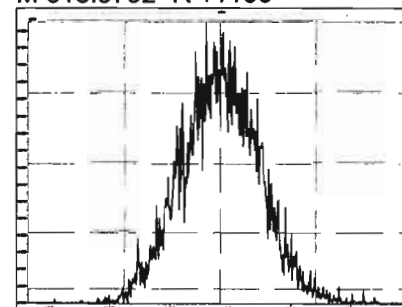
M 404.9760 R 14308



M 416.9760 R 20077

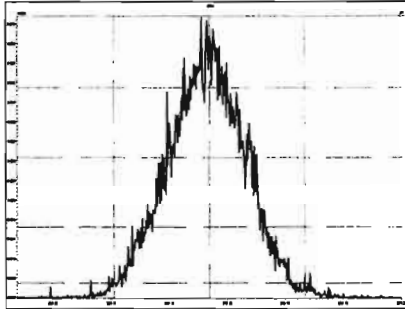


M 318.9792 R 11163

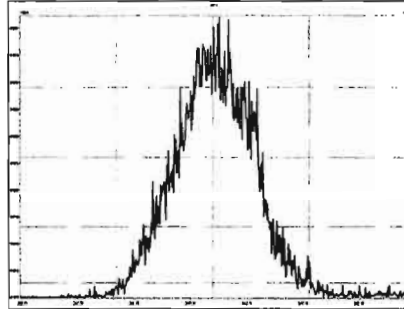


Printed: Thursday, June 04, 2020 19:59:34 Pacific Daylight Time

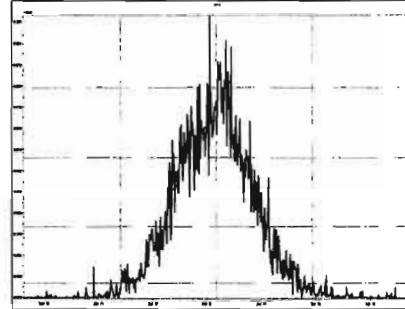
M 330.9792 R 11240



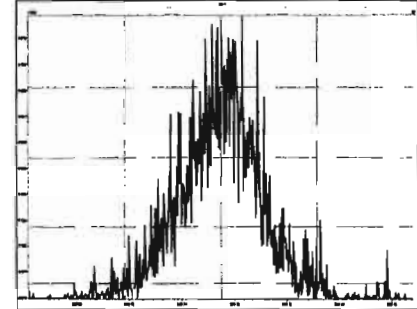
M 342.9792 R 11608



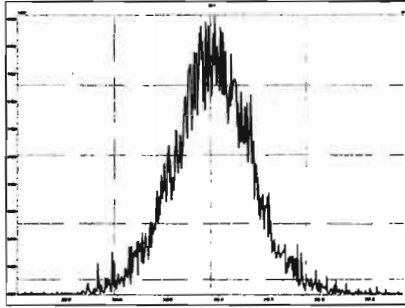
M 354.9792 R 11860



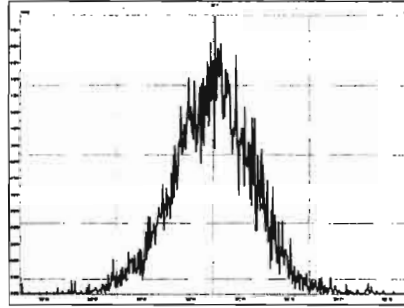
M 366.9792 R 12877



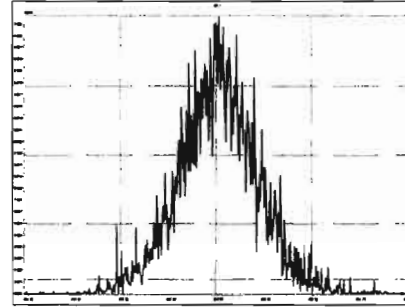
M 380.9760 R 11135



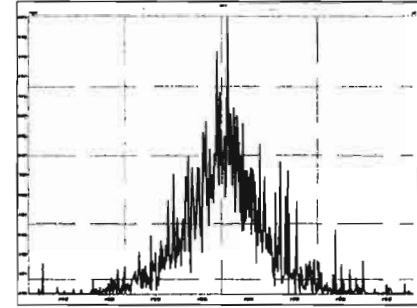
M 392.9760 R 12090



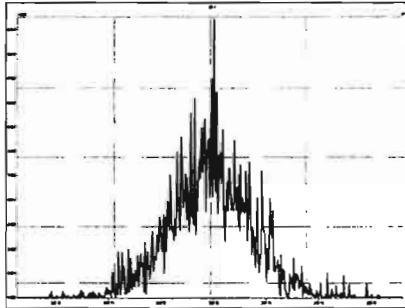
M 404.9760 R 12472



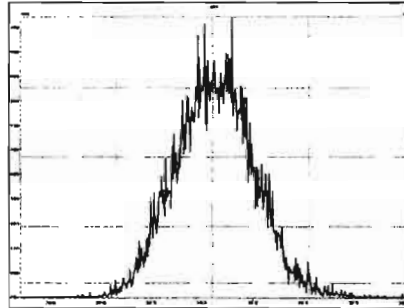
M 416.9760 R 14253



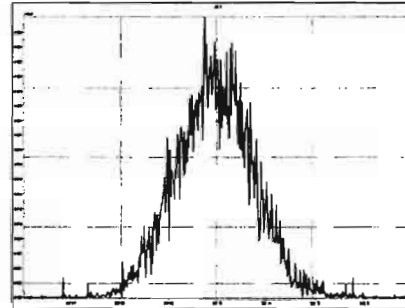
M 366.9792 R 13909



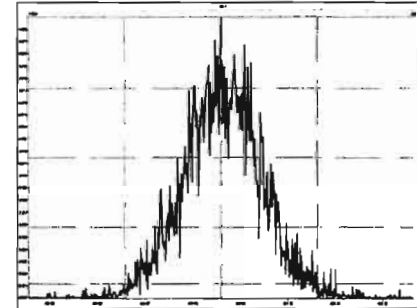
M 380.9760 R 11290



M 392.9760 R 11737



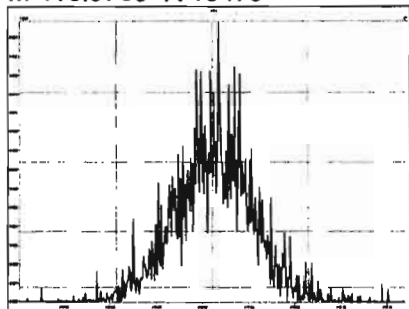
M 404.9760 R 12440



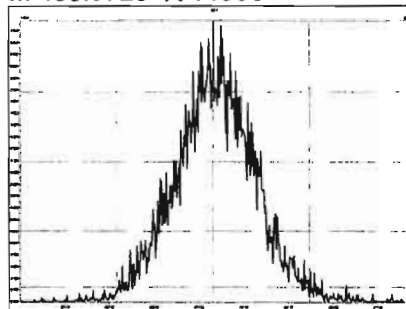


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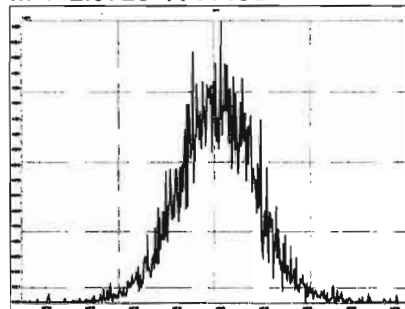
M 416.9760 R 13479



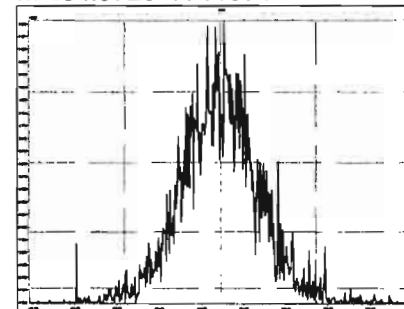
M 430.9728 R 11096



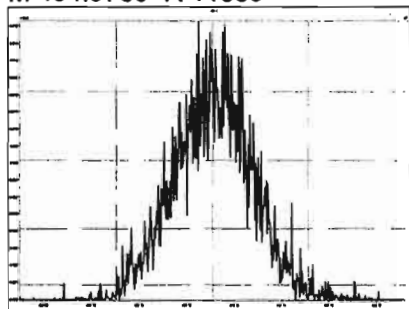
M 442.9728 R 11485



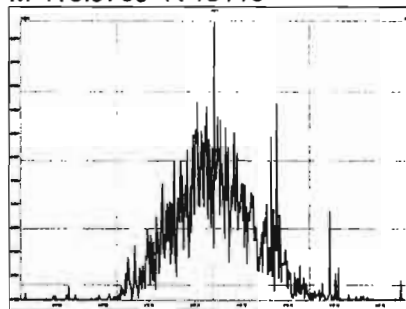
M 454.9728 R 11971



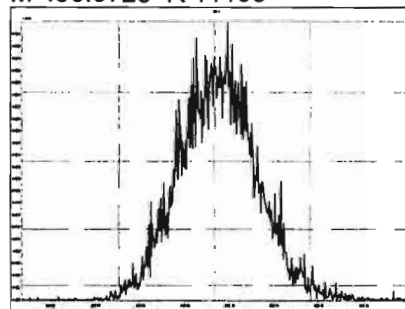
M 404.9760 R 11839



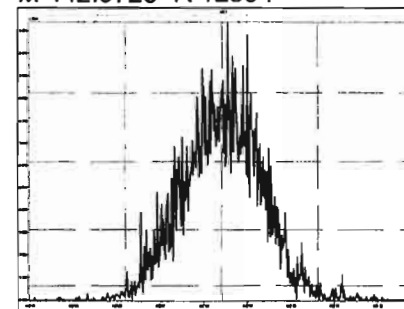
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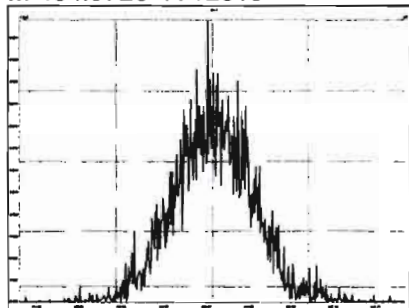
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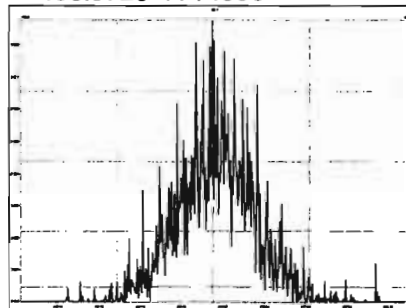
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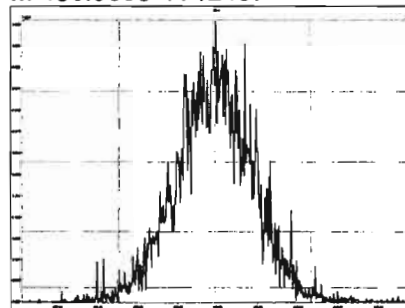
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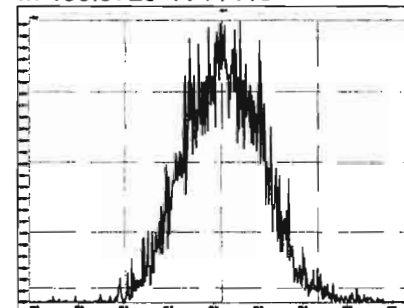
M 466.9728 R 14006



M 480.9696 R 12407

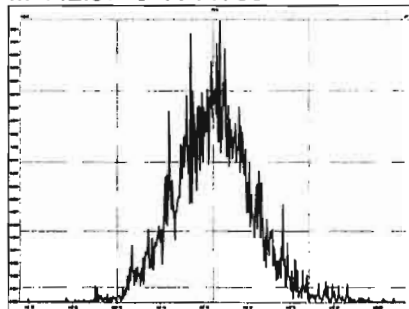


M 430.9728 R 11415

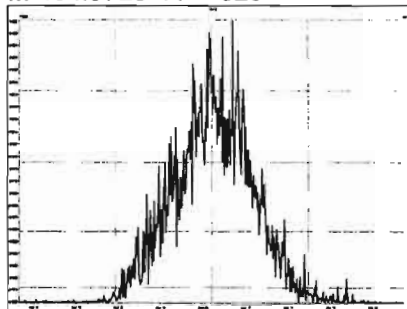


Printed: Thursday, June 04, 2020 19:59:34 Pacific Daylight Time

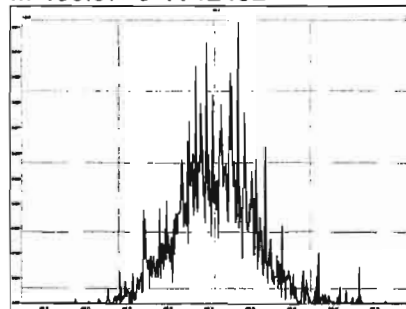
M 442.9728 R 11798



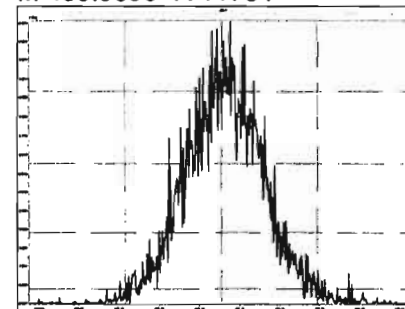
M 454.9728 R 11823



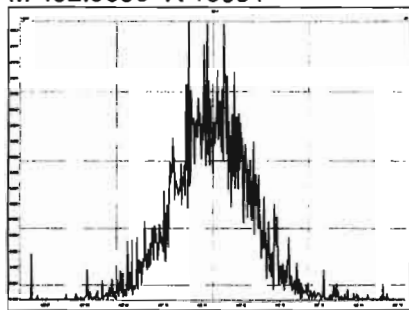
M 466.9728 R 12452



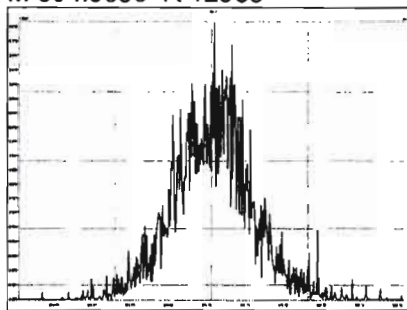
M 480.9696 R 11764



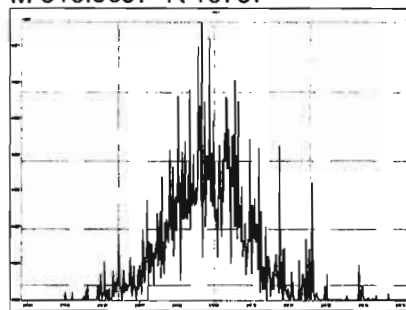
M 492.9696 R 13054



M 504.9696 R 12963



M 516.9697 R 16737





# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST200605R1-1

**Reviewed By:** C7 06/08/2020  
*Initials & Date*

**End Calibration ID:** NA

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
<b>Ion abundance within QC limits?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>	<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"/> <u>NA</u>
<b>First and last eluters present?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>GC Break &lt;20%</b>	<input type="checkbox"/> <u>NA</u>	
<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"/> <u>NA</u>	
<b>Forms signed and dated?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>Comments:</b>		
<b>Correct ICAL referenced?</b>	<u>GPB</u>	<u>GPB</u>			
<b><u>Run Log:</u></b>					
<b>- Correct instrument listed?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<b>- Samples within 12 hour clock?</b>	<u>(Y)</u>	<u>N</u>			
<b>- Bottle position verified?</b>	<u>GPB</u>				

Dataset: U:\VG12.PRO\Results\200605R1\200605R1-1.qld

Last Altered: Friday, June 05, 2020 10:45:12 Pacific Daylight Time  
Printed: Friday, June 05, 2020 10:45:26 Pacific Daylight Time

GPB 06/05/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

C7 06/05/2020

Name: 200605R1\_1, Date: 05-Jun-2020, Time: 09:52:20, ID: ST200605R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	2,3,7,8-TCDD	5.69e4	7.00e5	0.80	NO	0.888	26.52	26.51	NO	1.001	1.001	9.1527	91.5	NO
2	1,2,3,7,8-PeCDD	2.02e5	4.69e5	0.63	NO	0.908	31.47	31.47	NO	1.001	1.000	47.515	95.0	NO
3	1,2,3,4,7,8-HxCDD	1.59e5	3.24e5	1.26	NO	1.03	34.84	34.84	NO	1.000	1.000	47.600	95.2	NO
4	1,2,3,6,7,8-HxCDD	1.81e5	4.19e5	1.22	NO	0.892	34.92	34.94	NO	1.000	1.001	48.458	96.9	NO
5	1,2,3,7,8,9-HxCDD	1.56e5	3.64e5	1.22	NO	0.887	35.22	35.22	NO	1.000	1.000	48.436	96.9	NO
6	1,2,3,4,6,7,8-HpCDD	1.16e5	2.67e5	1.02	NO	0.864	38.76	38.77	NO	1.000	1.001	50.198	100	NO
7	OCDD	2.35e5	5.17e5	0.87	NO	0.914	41.72	41.74	NO	1.000	1.001	99.454	99.5	NO
8	2,3,7,8-TCDF	6.65e4	8.97e5	0.74	NO	0.751	25.63	25.61	NO	1.001	1.001	9.8723	98.7	NO
9	1,2,3,7,8-PeCDF	3.07e5	7.20e5	1.58	NO	0.893	30.19	30.18	NO	1.001	1.000	47.817	95.6	NO
10	2,3,4,7,8-PeCDF	3.07e5	6.77e5	1.54	NO	0.935	31.18	31.16	NO	1.001	1.001	48.574	97.1	NO
11	1,2,3,4,7,8-HxCDF	1.91e5	4.27e5	1.20	NO	0.884	33.95	33.96	NO	1.000	1.000	50.669	101	NO
12	1,2,3,6,7,8-HxCDF	2.22e5	4.92e5	1.20	NO	0.889	34.08	34.08	NO	1.000	1.000	50.674	101	NO
13	2,3,4,6,7,8-HxCDF	2.00e5	4.34e5	1.22	NO	0.934	34.69	34.67	NO	1.001	1.000	49.261	98.5	NO
14	1,2,3,7,8,9-HxCDF	1.53e5	3.48e5	1.22	NO	0.871	35.57	35.59	NO	1.000	1.001	50.618	101	NO
15	1,2,3,4,6,7,8-HpCDF	1.48e5	3.24e5	0.99	NO	0.873	37.38	37.35	NO	1.001	1.000	52.271	105	NO
16	1,2,3,4,7,8,9-HpCDF	1.14e5	2.17e5	0.98	NO	1.01	39.29	39.31	NO	1.000	1.001	51.700	103	NO
17	OCDF	2.58e5	6.41e5	0.87	NO	0.806	41.91	41.92	NO	1.000	1.000	99.720	99.7	NO
18	13C-2,3,7,8-TCDD	7.00e5	5.93e5	0.75	NO	1.16	26.52	26.48	NO	1.026	1.025	102.19	102	NO
19	13C-1,2,3,7,8-PeCDD	4.69e5	5.93e5	0.64	NO	0.849	31.71	31.45	NO	1.227	1.217	93.224	93.2	NO
20	13C-1,2,3,4,7,8-HxCDD	3.24e5	4.38e5	1.28	NO	0.779	34.83	34.83	NO	1.014	1.014	94.774	94.8	NO
21	13C-1,2,3,6,7,8-HxCDD	4.19e5	4.38e5	1.27	NO	1.02	34.94	34.92	NO	1.017	1.017	94.010	94.0	NO
22	13C-1,2,3,7,8,9-HxCDD	3.64e5	4.38e5	1.29	NO	0.903	35.21	35.21	NO	1.025	1.025	91.975	92.0	NO
23	13C-1,2,3,4,6,7,8-HpCDD	2.67e5	4.38e5	1.03	NO	0.689	38.74	38.74	NO	1.128	1.128	88.358	88.4	NO
24	13C-OCDD	5.17e5	4.38e5	0.90	NO	0.652	41.76	41.72	NO	1.216	1.215	180.98	90.5	NO
25	13C-2,3,7,8-TCDF	8.97e5	8.75e5	0.77	NO	1.06	25.56	25.60	NO	0.989	0.991	96.872	96.9	NO
26	13C-1,2,3,7,8-PeCDF	7.20e5	8.75e5	1.60	NO	0.838	30.09	30.17	NO	1.165	1.168	98.247	98.2	NO
27	13C-2,3,4,7,8-PeCDF	6.77e5	8.75e5	1.59	NO	0.817	31.05	31.15	NO	1.202	1.205	94.792	94.8	NO
28	13C-1,2,3,4,7,8-HxCDF	4.27e5	4.38e5	0.50	NO	1.01	33.96	33.95	NO	0.989	0.989	96.625	96.6	NO
29	13C-1,2,3,6,7,8-HxCDF	4.92e5	4.38e5	0.50	NO	1.17	34.08	34.07	NO	0.992	0.992	96.234	96.2	NO
30	13C-2,3,4,6,7,8-HxCDF	4.34e5	4.38e5	0.50	NO	1.02	34.66	34.66	NO	1.009	1.009	96.962	97.0	NO
31	13C-1,2,3,7,8,9-HxCDF	3.48e5	4.38e5	0.50	NO	0.860	35.56	35.57	NO	1.035	1.036	92.312	92.3	NO

Dataset: U:\VG12.PRO\Results\200605R1\200605R1-1.qld

Last Altered: Friday, June 05, 2020 10:45:12 Pacific Daylight Time

Printed: Friday, June 05, 2020 10:45:26 Pacific Daylight Time

Name: 200605R1\_1, Date: 05-Jun-2020, Time: 09:52:20, ID: ST200605R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.24e5	4.38e5	0.44	NO	0.774	37.31	37.34	NO	1.086	1.087	95.529	95.5	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.17e5	4.38e5	0.42	NO	0.521	39.34	39.29	NO	1.145	1.144	95.195	95.2	NO
34	34 13C-OCDF	6.41e5	4.38e5	0.89	NO	0.746	41.93	41.91	NO	1.221	1.220	196.15	98.1	NO
35	35 37Cl-2,3,7,8-TCDD	6.09e4	5.93e5			1.04	26.55	26.51	NO	1.028	1.026	9.9179	99.2	NO
36	36 13C-1,2,3,4-TCDD	5.93e5	5.93e5	0.79	NO	1.00	25.89	25.84	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	8.75e5	8.75e5	0.79	NO	1.00	24.36	24.16	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	4.38e5	4.38e5	0.49	NO	1.00	34.42	34.35	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Dataset: Untitled

Last Altered: Sunday, June 07, 2020 07:55:45 Pacific Daylight Time

Printed: Sunday, June 07, 2020 07:58:46 Pacific Daylight Time

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

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Compound name: OCDD

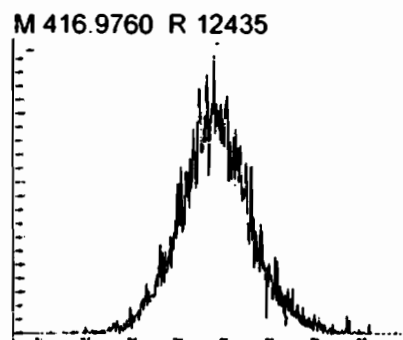
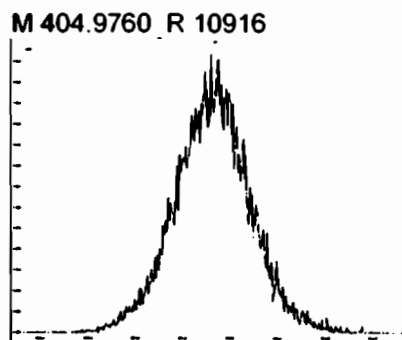
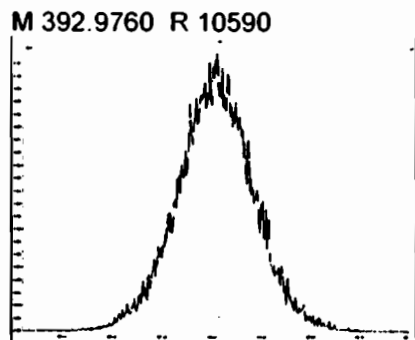
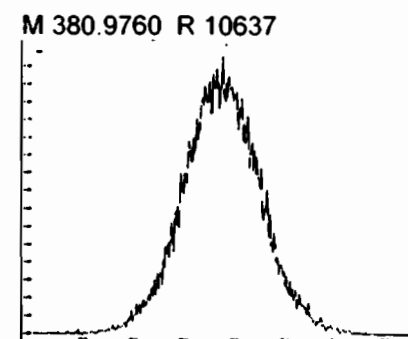
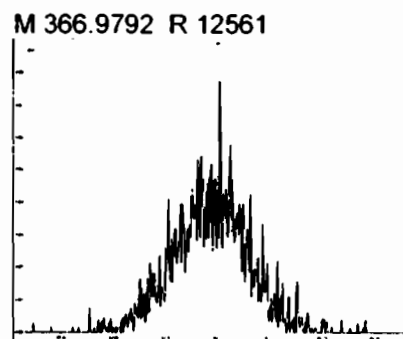
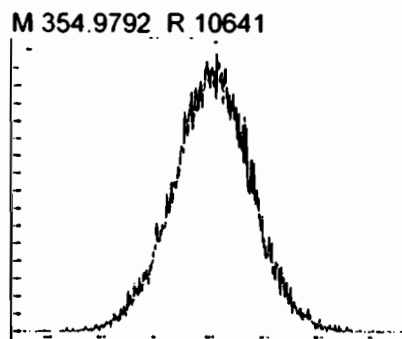
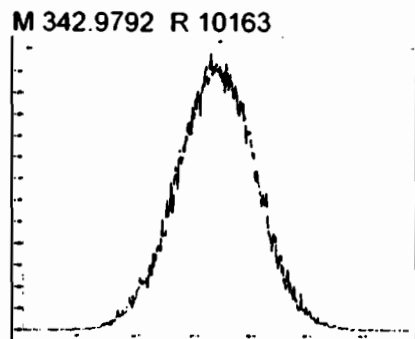
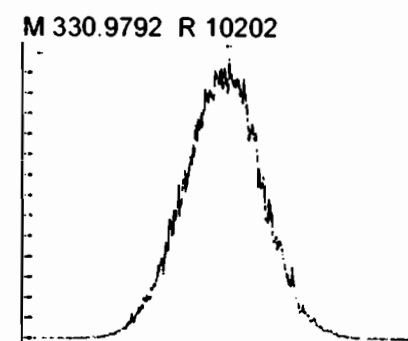
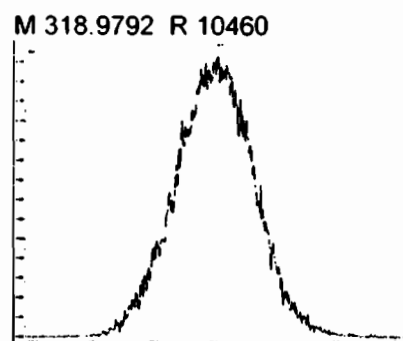
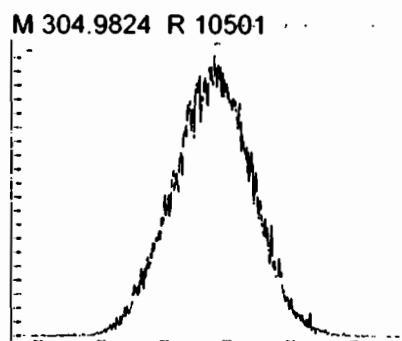
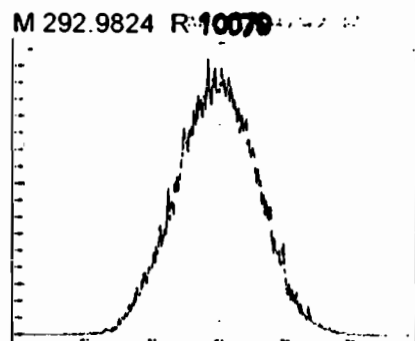
Name	ID	Acq.Date	Acq.Time
200605R1_1	ST200605R1_1 1613 CS3 19L2305	05-Jun-20	09:52:20
200605R1_2	SOLVENT BLANK	05-Jun-20	10:40:33
200605R1_3	2000964-05 PDI-148SC-A-03-04-200427 12.53	05-Jun-20	11:26:43
200605R1_4	2000964-06 PDI-148SC-A-04-05-200427 11.5	05-Jun-20	12:12:59
200605R1_5	2000995-01 PDI-068SC-A-10-11-200430 16.51	05-Jun-20	12:59:13
200605R1_6	2000995-02 PDI-068SC-A-11-12.3-200430 16....	05-Jun-20	13:45:26
200605R1_7	2000995-03 PDI-068SC-B-00-02-200430 17.1	05-Jun-20	14:31:40
200605R1_8	2000995-04 PDI-068SC-B-02-05-200430 17.92	05-Jun-20	15:17:52
200605R1_9	2000995-05 PDI-068SC-B-05-07-200430 18.77	05-Jun-20	16:04:04
200605R1_10	2000995-06 PDI-072SC-A-08-09-200430 14.69	05-Jun-20	16:50:16
200605R1_11	2000995-07 PDI-072SC-A-09-9.5-200430 16.02	05-Jun-20	17:36:27
200605R1_12	2000995-08 PDI-072SC-B-00-02-200430 18.83	05-Jun-20	18:22:40
200605R1_13	2000995-09 PDI-072SC-B-02-04-200430 17.07	05-Jun-20	19:08:52
200605R1_14	2000995-10 PDI-072SC-B-04-06-200430 14.89	05-Jun-20	19:55:04
200605R1_15	B0E0079-DUP1 Duplicate 14.82	05-Jun-20	20:41:16
200605R1_16	2000995-11 PDI-072SC-B-06-08-200430 14.24	05-Jun-20	21:27:28

Experiment Calibration Report

MassLynx 4.1 SCN815

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

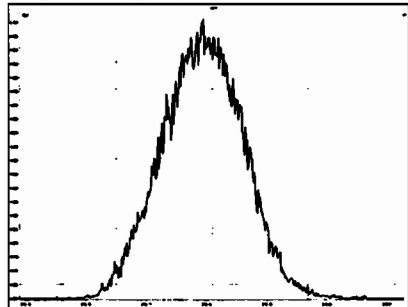
Printed: Friday, June 05, 2020 09:46:39 Pacific Daylight Time



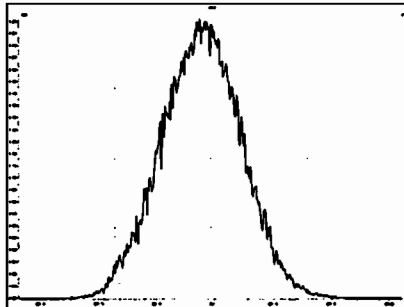
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, June 05, 2020 09:48:03 Pacific Daylight Time

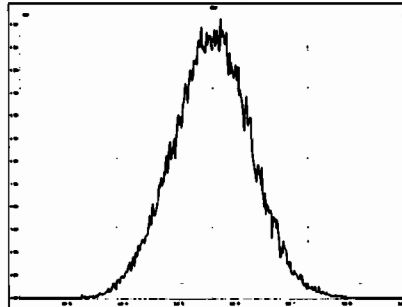
M 318.9792 R 10417



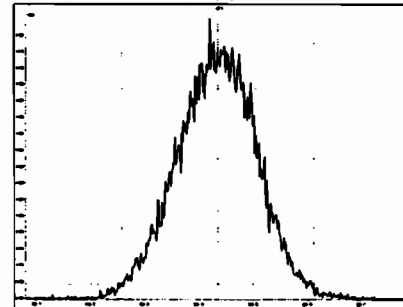
M 330.9792 R 10329



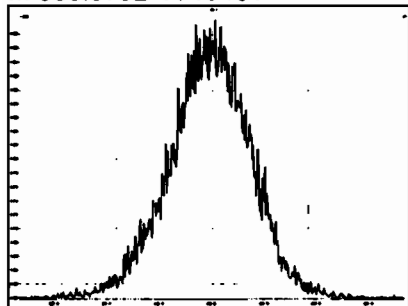
M 342.9792 R 10205



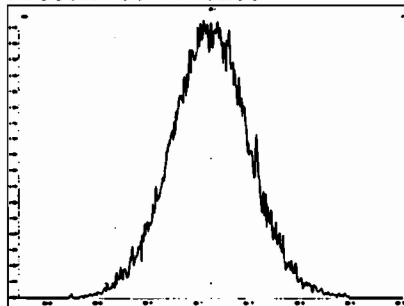
M 354.9792 R 10547



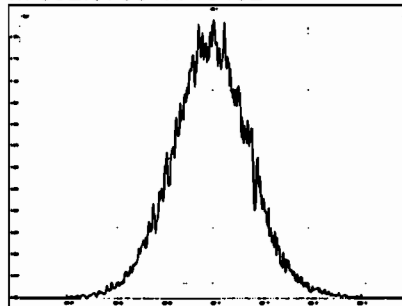
M 366.9792 R 10461



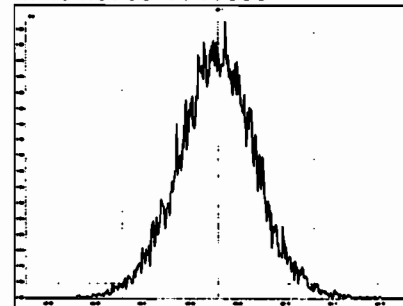
M 380.9760 R 10288



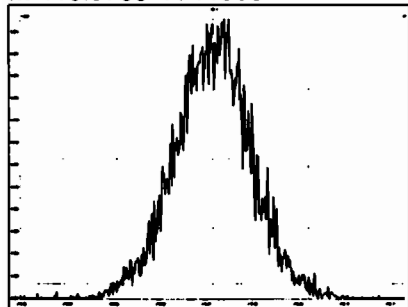
M 392.9760 R 10462



M 404.9760 R 10593



M 416.9760 R 11903

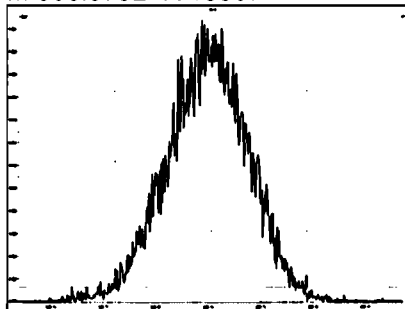




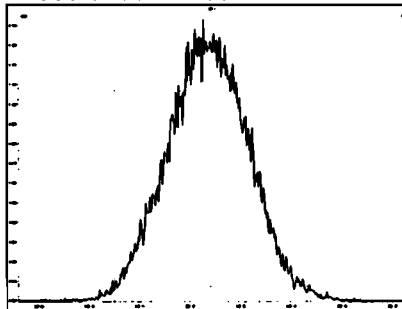
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, June 05, 2020 09:48:37 Pacific Daylight Time

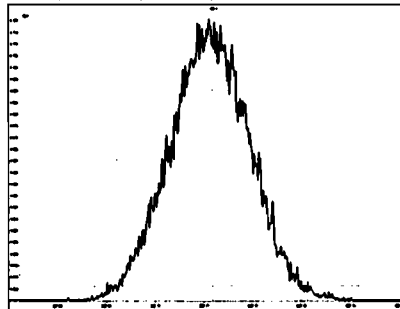
M 366.9792 R 10867



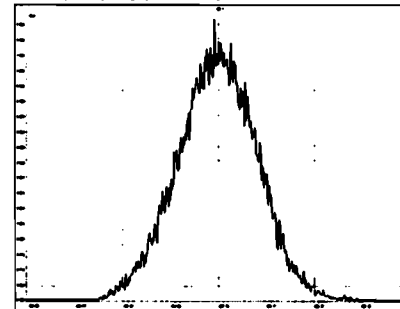
M 380.9760 R 10917



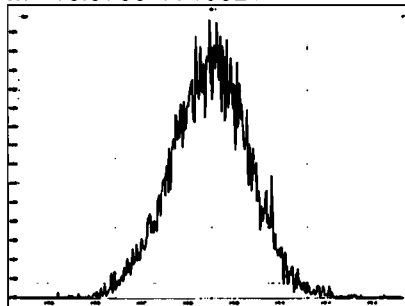
M 392.9760 R 10547



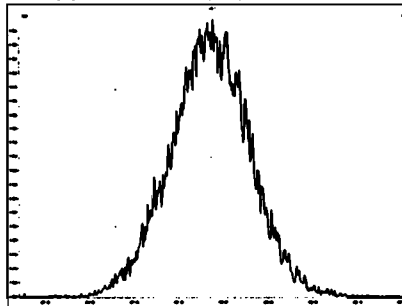
M 404.9760 R 10417



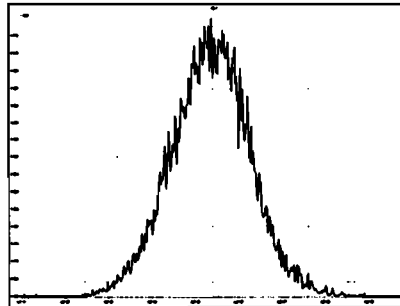
M 416.9760 R 10821



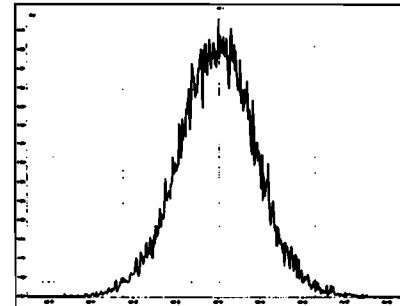
M 430.9728 R 10201



M 442.9728 R 10203



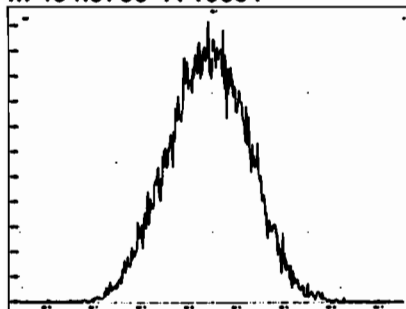
M 454.9728 R 10164



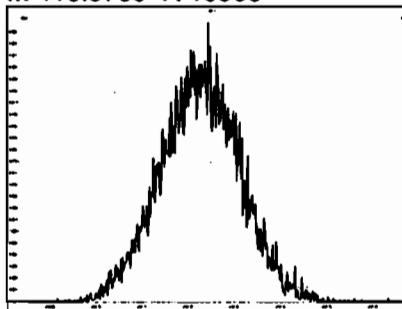
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, June 05, 2020 09:49:37 Pacific Daylight Time

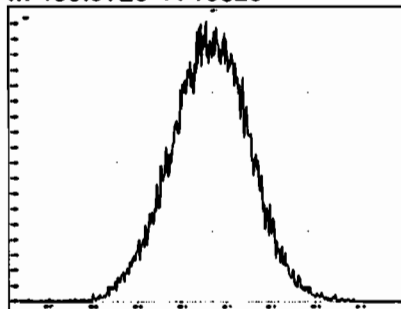
M 404.9760 R 10591



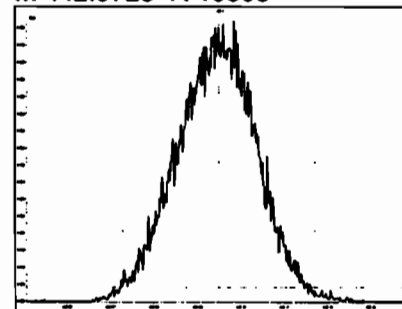
M 416.9760 R 10965



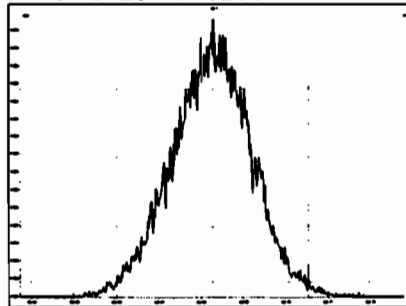
M 430.9728 R 10329



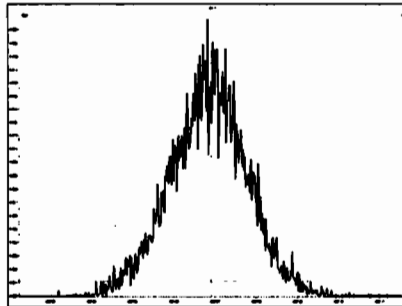
M 442.9728 R 10505



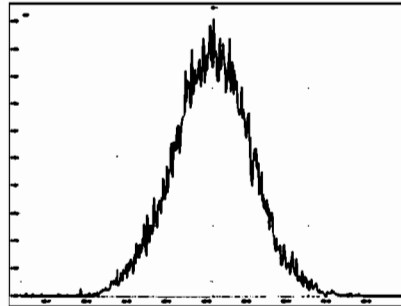
M 454.9728 R 10206



M 466.9728 R 10914



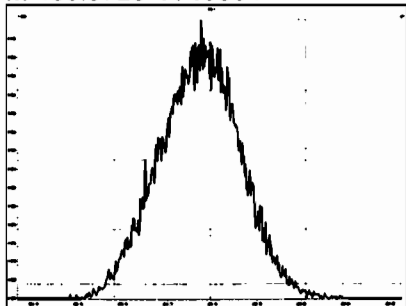
M 480.9696 R 10504



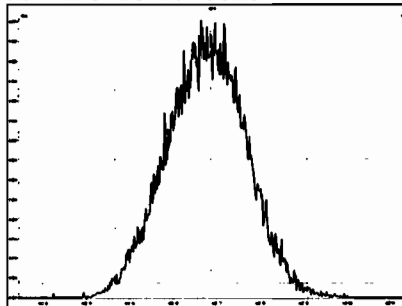
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, June 05, 2020 09:50:02 Pacific Daylight Time

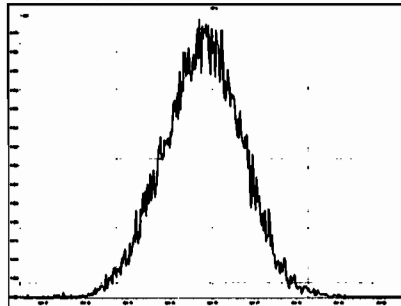
M 430.9728 R 10504



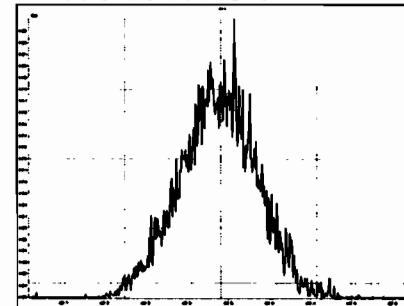
M 442.9728 R 10329



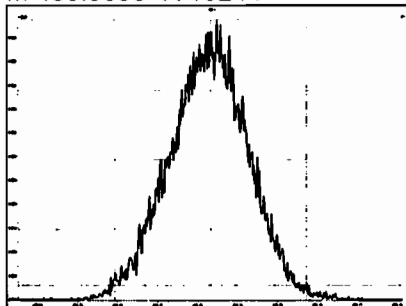
M 454.9728 R 10918



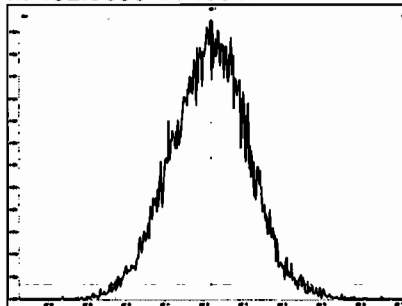
M 466.9728 R 11573



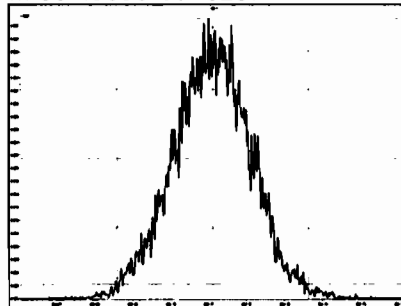
M 480.9696 R 10244



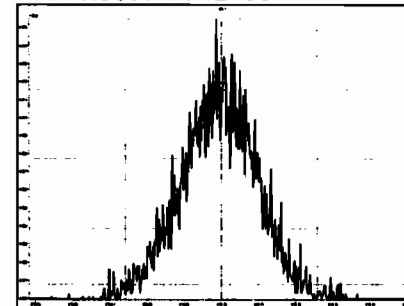
M 492.9696 R 10917



M 504.9696 R 10287



M 516.9697 R 12438



Dataset: Untitled

Last Altered: Friday, June 05, 2020 10:39:18 Pacific Daylight Time

Printed: Friday, June 05, 2020 10:39:30 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200605R1\_1, Date: 05-Jun-2020, Time: 09:52:20, ID: ST200605R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	RT
1	1 1,3,6,8-TCDD (First)	22.49
2	2 1,2,8,9-TCDD (Last)	27.47
3	3 1,2,4,7,9-PeCDD (First)	29.25
4	4 1,2,3,8,9-PeCDD (Last)	31.85
5	5 1,2,4,6,7,9-HxCDD (First)	33.33
6	6 1,2,3,7,8,9-HxCDD (Last)	35.22
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.74
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.77
9	9 1,3,6,8-TCDF (First)	20.35
10	10 1,2,8,9-TCDF (Last)	27.62
11	11 1,3,4,6,8-PeCDF (First)	27.58
12	12 1,2,3,8,9-PeCDF (Last)	32.09
13	13 1,2,3,4,6,8-HxCDF (First)	32.79
14	14 1,2,3,7,8,9-HxCDF (Last)	35.59
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.35
16	16 1,2,3,4,7,8,9-HpCDF (Last)	39.31

Dataset: Untitled

Last Altered: Friday, June 05, 2020 10:39:18 Pacific Daylight Time  
Printed: Friday, June 05, 2020 10:39:30 Pacific Daylight Time

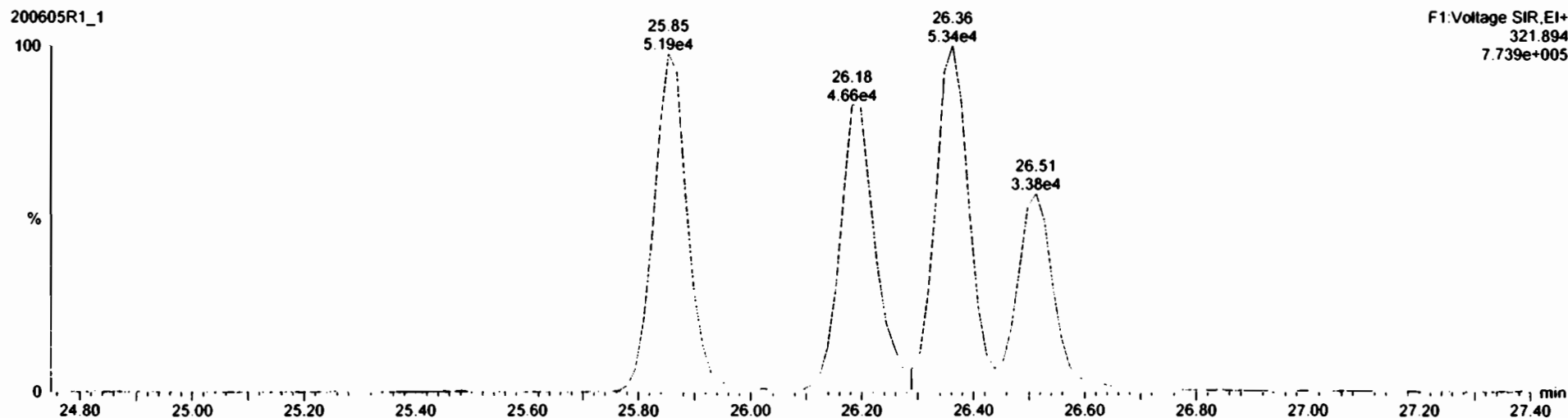
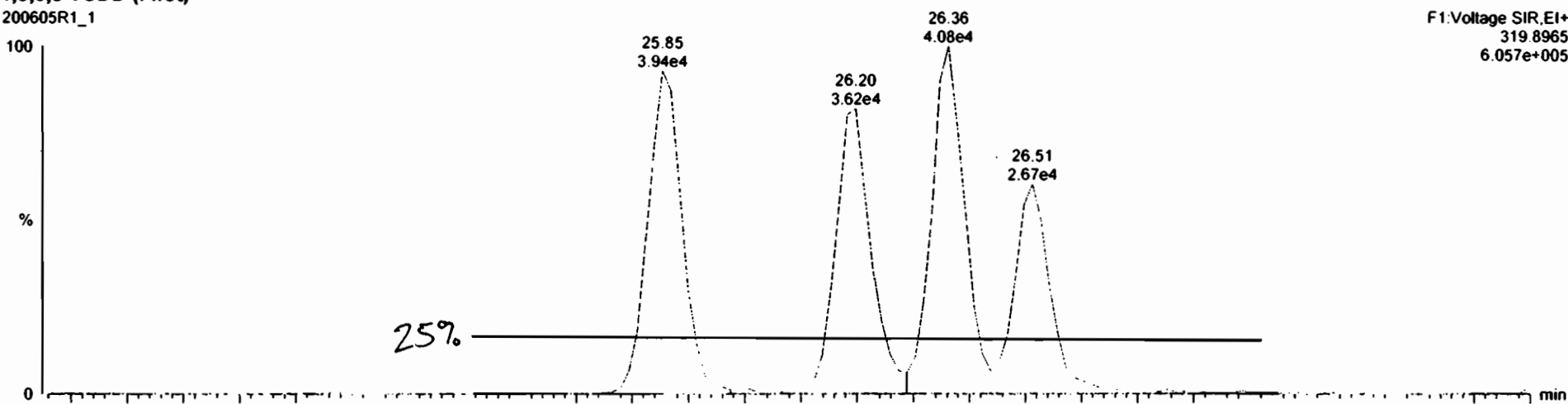
GRB 06/05/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200605R1\_1, Date: 05-Jun-2020, Time: 09:52:20, ID: ST200605R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)  
200605R1\_1

F1: Voltage SIR, EI+  
319.8965  
6.057e+005



F1: Voltage SIR, EI+  
321.894  
7.739e+005

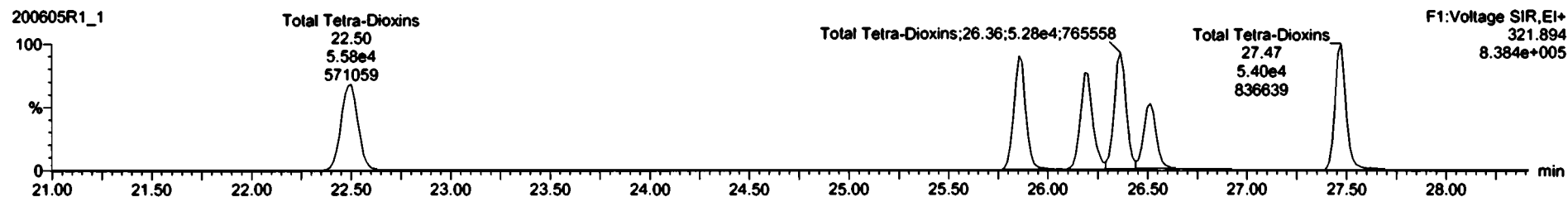
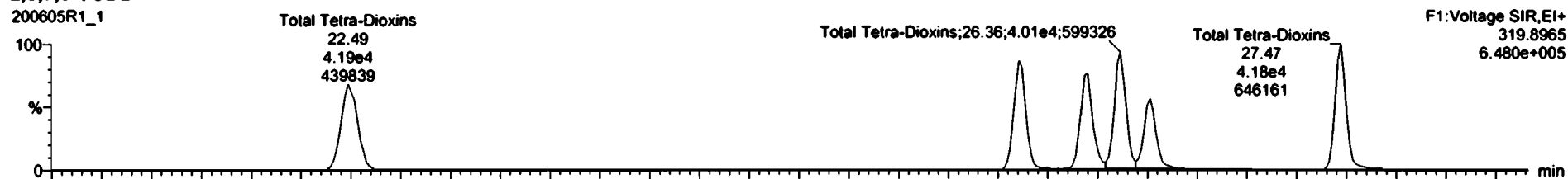
Dataset: Untitled

Last Altered: Friday, June 05, 2020 10:39:58 Pacific Daylight Time  
Printed: Friday, June 05, 2020 10:41:21 Pacific Daylight Time

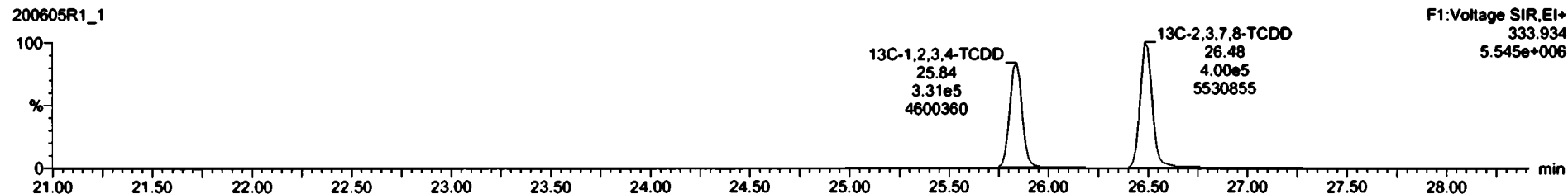
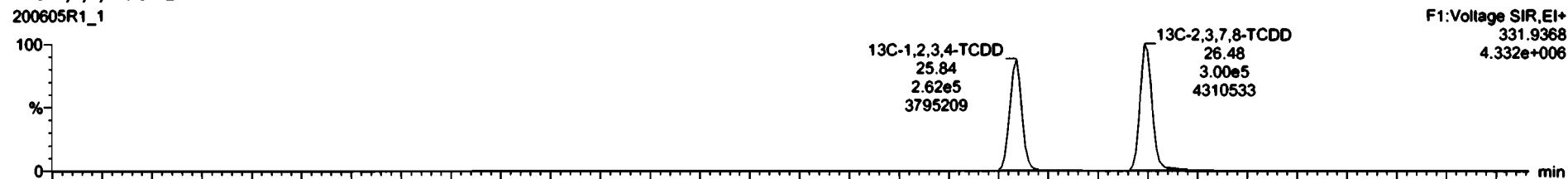
Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200605R1\_1, Date: 05-Jun-2020, Time: 09:52:20, ID: ST200605R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

### 2,3,7,8-TCDD



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





Dataset: Untitled

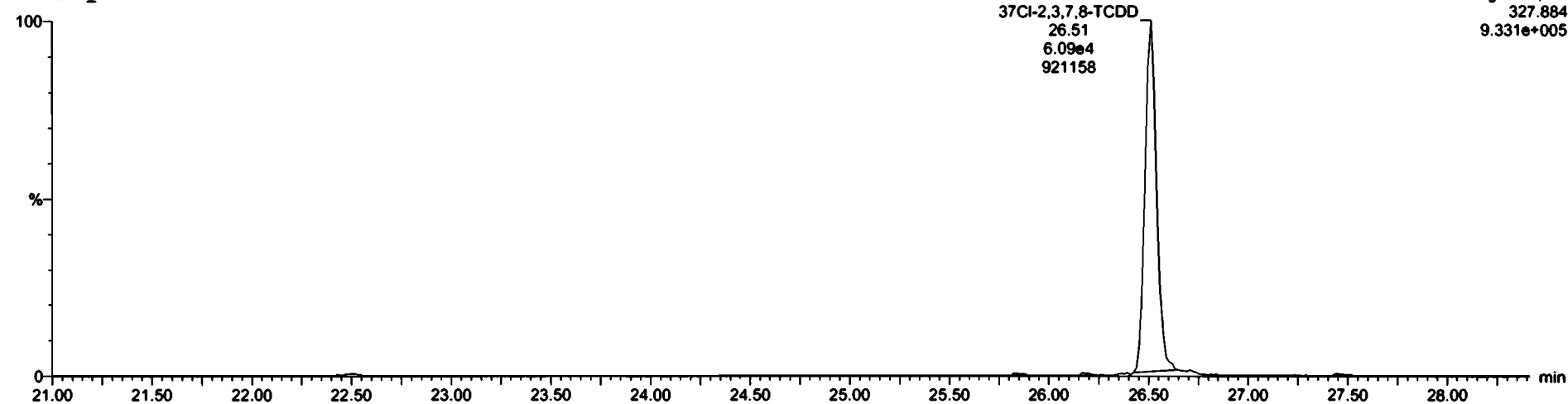
Last Altered: Friday, June 05, 2020 10:39:58 Pacific Daylight Time

Printed: Friday, June 05, 2020 10:41:21 Pacific Daylight Time

Name: 200605R1\_1, Date: 05-Jun-2020, Time: 09:52:20, ID: ST200605R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

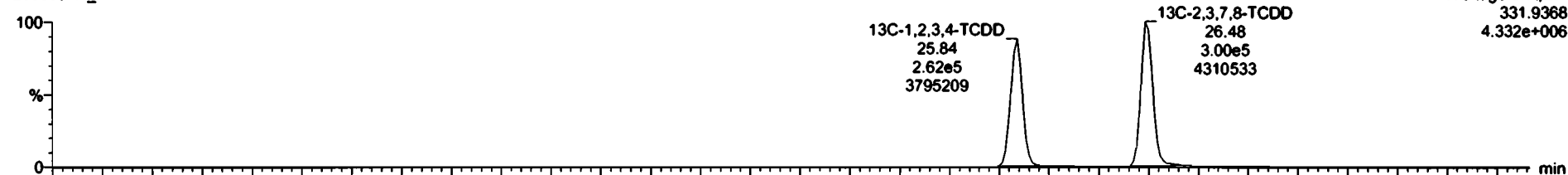
**37Cl-2,3,7,8-TCDD**

200605R1\_1

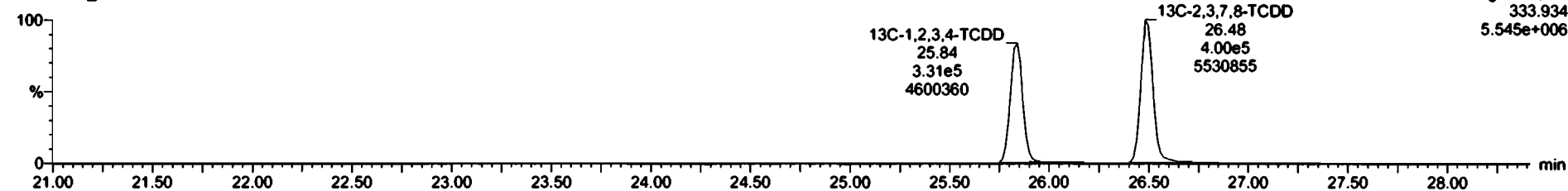


**13C-1,2,3,4-TCDD**

200605R1\_1



200605R1\_1



Dataset: Untitled

Last Altered: Friday, June 05, 2020 10:39:58 Pacific Daylight Time  
Printed: Friday, June 05, 2020 10:41:21 Pacific Daylight Time

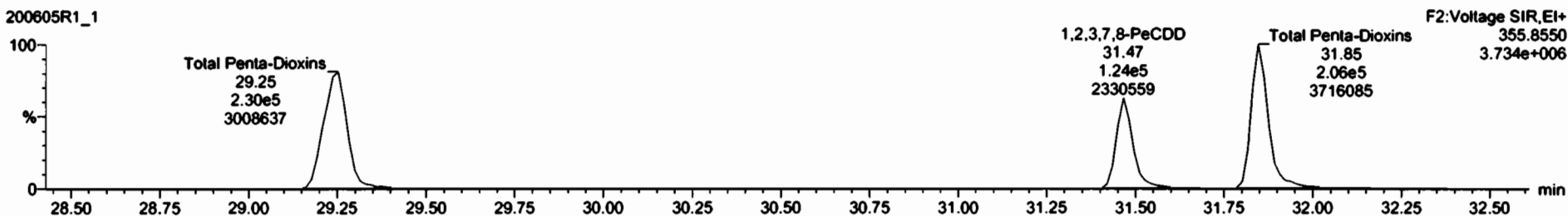
Name: 200605R1\_1, Date: 05-Jun-2020, Time: 09:52:20, ID: ST200605R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200605R1\_1



200605R1\_1

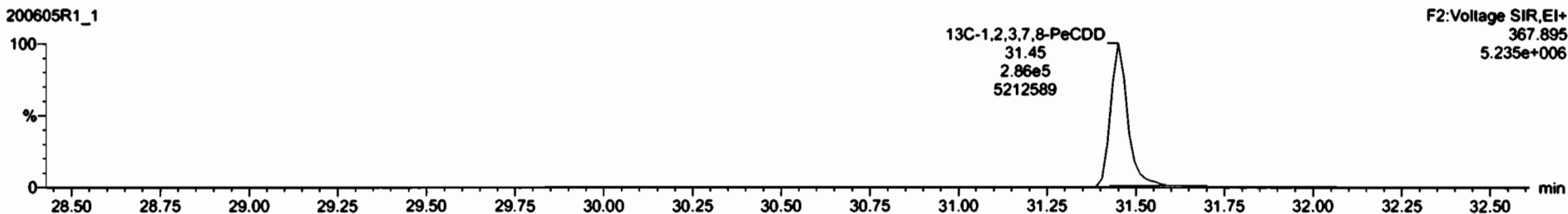


**13C-1,2,3,7,8-PeCDD**

200605R1\_1



200605R1\_1



Dataset: Untitled

Last Altered: Friday, June 05, 2020 10:39:58 Pacific Daylight Time

Printed: Friday, June 05, 2020 10:41:21 Pacific Daylight Time

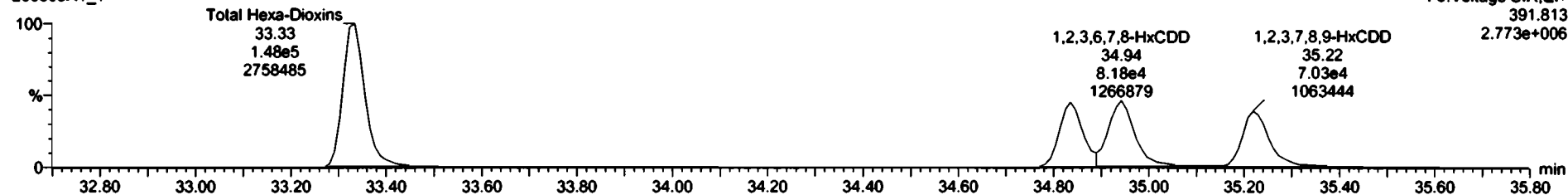
Name: 200605R1\_1, Date: 05-Jun-2020, Time: 09:52:20, ID: ST200605R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200605R1\_1

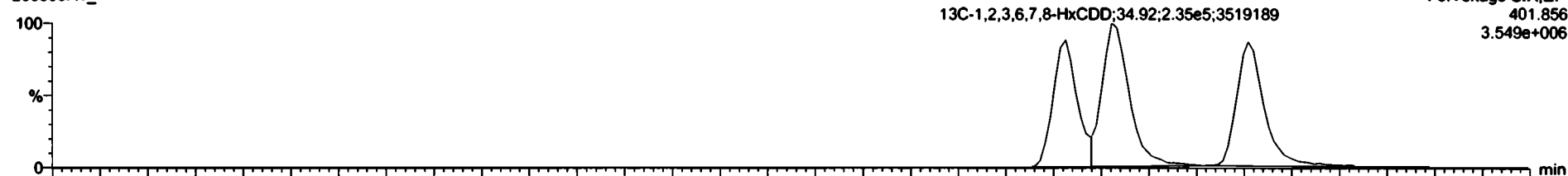


200605R1\_1

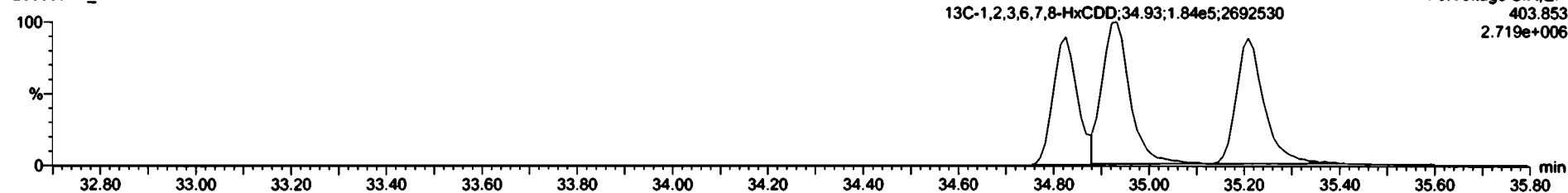


13C-1,2,3,4,7,8-HxCDD

200605R1\_1



200605R1\_1



Dataset: Untitled

Last Altered: Friday, June 05, 2020 10:39:58 Pacific Daylight Time

Printed: Friday, June 05, 2020 10:41:21 Pacific Daylight Time

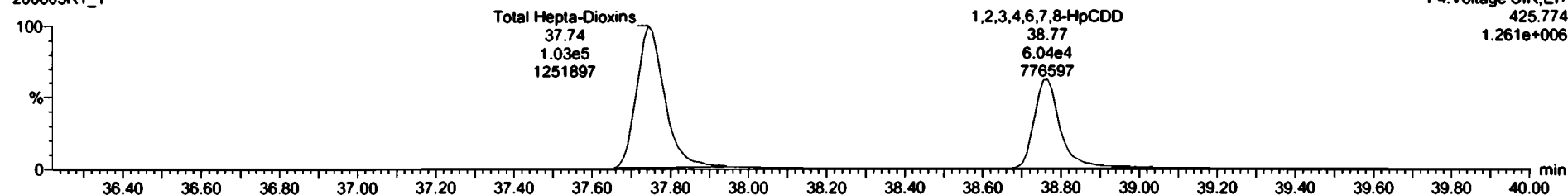
Name: 200605R1\_1, Date: 05-Jun-2020, Time: 09:52:20, ID: ST200605R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200605R1\_1

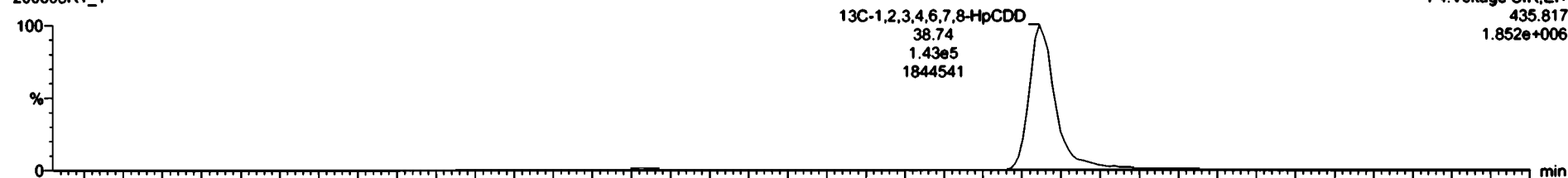


200605R1\_1

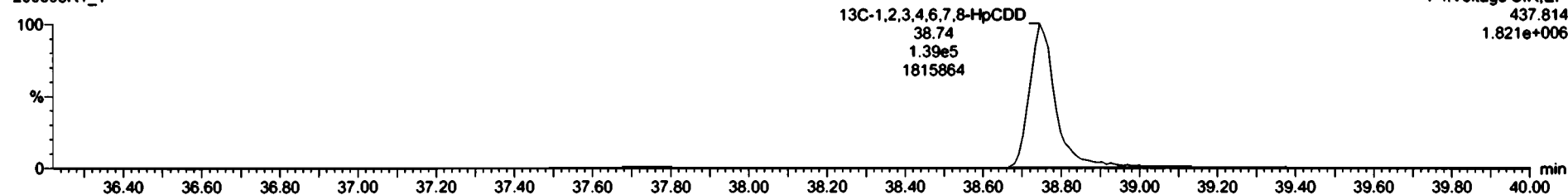


**13C-1,2,3,4,6,7,8-HpCDD**

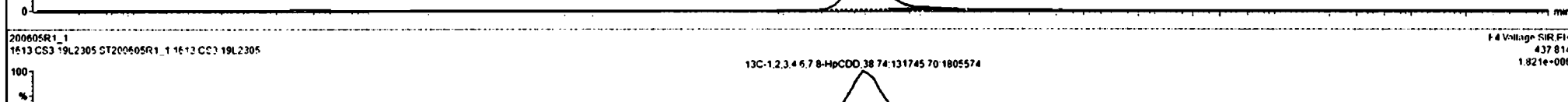
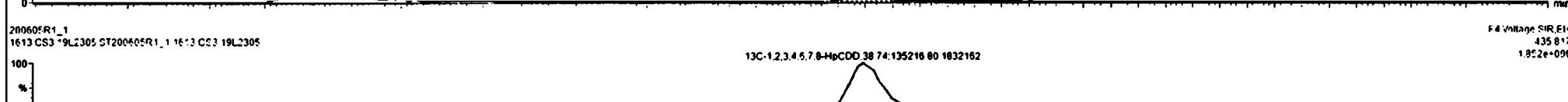
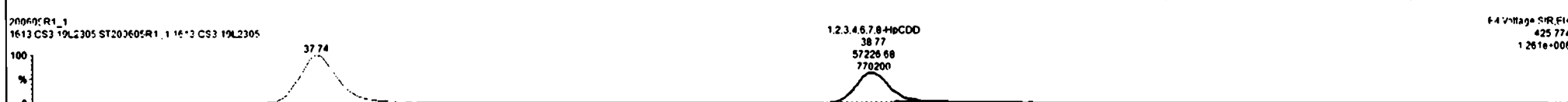
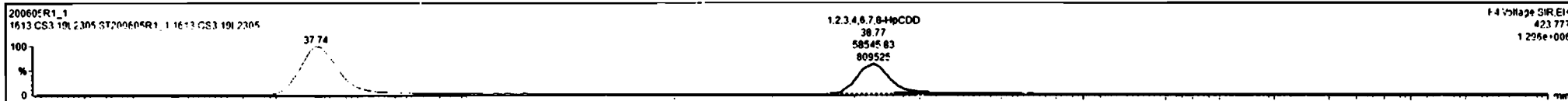
200605R1\_1



200605R1\_1



#	Item	Resp	IS Resp	Pred RA	RA	nly	RSP	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	5.89e4	7.09e5	0.77	0.80	NO	0.8863	28.52	28.53	NO	1.001	1.001	9.15	91.5	NO
2	2 1,2,3,7,8-PeCDD	2.02e5	4.69e5	0.63	0.63	NO	0.9881	31.47	31.47	NO	1.001	1.000	47.5	95.8	NO
3	3 1,2,3,4,7,8-HxCDD	1.59e5	3.24e5	1.24	1.26	NO	1.0334	34.84	34.84	NO	1.000	1.000	47.6	95.2	NO
4	4 1,2,3,6,7,8-HxCDD	1.81e5	4.19e5	1.24	1.22	NO	0.8923	34.92	34.94	NO	1.000	1.001	48.5	95.9	NO
5	5 1,2,3,7,8,9-HxCDD	1.56e5	3.84e5	1.24	1.22	NO	0.8899	35.22	35.22	NO	1.000	1.000	48.4	95.9	NO
6	6 1,2,3,4,6,7,8-HxCDF	1.18e5	2.67e5	1.68	1.62	NO	1.0000	38.78	38.77	NO	1.000	1.001	80.2	100	NO
7	7 OCDF	2.52e5	5.42e5	0.89	0.86	NO	0.9138	41.72	41.74	NO	1.000	1.001	102	102	NO
8	8 2,3,7,8-TCDF	6.95e4	6.97e5	0.77	0.74	NO	0.7510	25.63	25.61	NO	1.001	1.001	9.87	96.7	NO
9	9 1,2,3,7,8-PeCDF	3.07e5	7.20e5	1.55	1.58	NO	0.8925	30.19	30.18	NO	1.001	1.000	47.8	95.6	NO
10	10 2,3,4,7,8-PeCDF	3.07e5	6.77e5	1.55	1.54	NO	0.9348	31.18	31.18	NO	1.001	1.001	48.6	97.1	NO
11	11 1,2,3,4,7,8-HxCDF	1.91e5	4.27e5	1.24	1.20	NO	0.8845	33.95	33.96	NO	1.000	1.000	50.7	101	NO
12	12 1,2,3,6,7,8-HxCDF	2.22e5	4.92e5	1.24	1.20	NO	0.8892	34.08	34.08	NO	1.000	1.000	50.7	101	NO
13	13 2,3,4,6,7,8-HxCDF	2.00e5	4.43e5	1.24	1.22	NO	0.9341	34.69	34.67	NO	1.001	1.000	48.3	96.6	NO
14	14 1,2,3,7,8,9-HxCDF	1.56e5	3.61e5	1.24	1.17	NO	0.8707	35.57	35.59	NO	1.000	1.001	49.7	99.3	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.48e5	3.24e5	1.04	0.98	NO	0.8734	37.38	37.35	NO	1.001	1.000	52.6	105	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.14e5	2.17e5	1.04	0.96	NO	1.0128	39.29	39.31	NO	1.000	1.001	51.7	102	NO
17	17 OCDF	2.80e5	6.45e5	0.89	0.86	NO	0.8855	41.81	41.92	NO	1.000	1.000	99.6	99.8	NO
18	18 13C-2,3,7,8-TCDD	7.89e5	5.93e5	0.77	0.75	NO	1.1583	25.52	25.48	NO	1.025	1.025	102	102	NO
19	19 13C-1,2,3,7,8-PeCDD	4.68e5	5.93e5	0.63	0.64	NO	0.8490	31.71	31.45	NO	1.227	1.217	92.2	93.2	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.24e5	4.36e5	1.24	1.28	NO	0.7790	34.83	34.82	NO	1.014	1.014	94.8	94.8	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.19e5	4.36e5	1.24	1.27	NO	1.0167	34.94	34.92	NO	1.017	1.017	94.0	94.0	NO



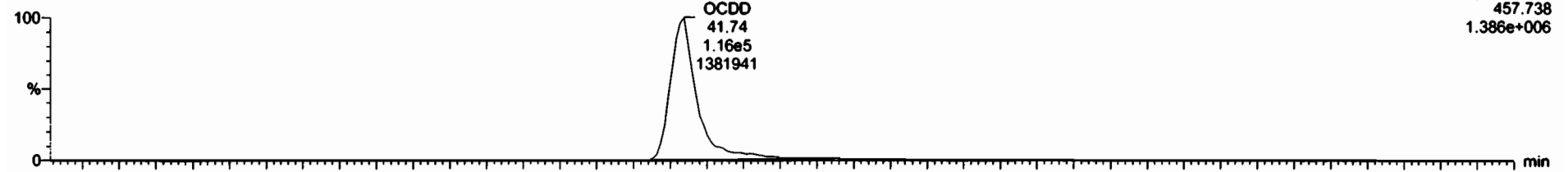
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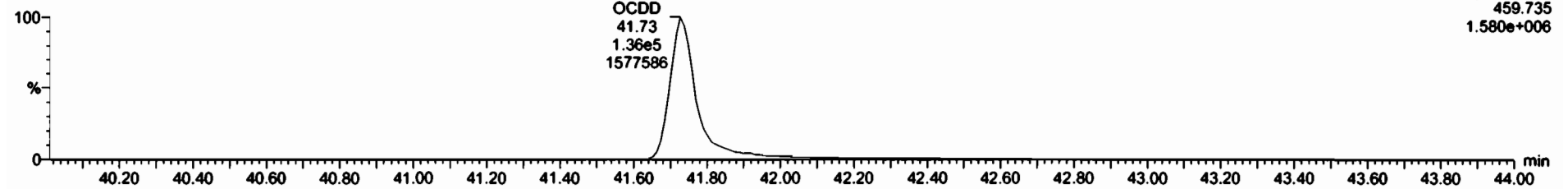
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**OCDD**

200605R1\_1

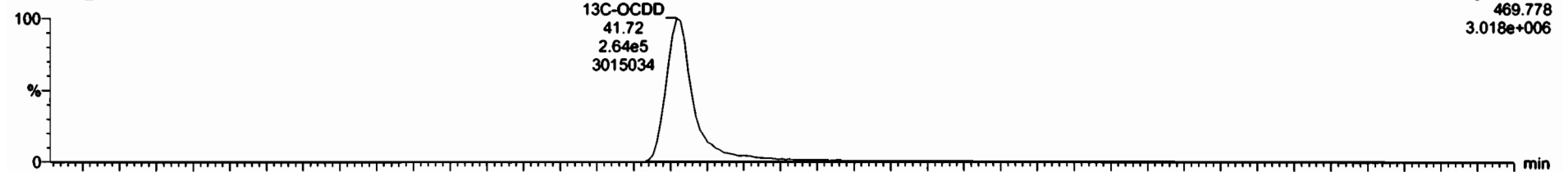


200605R1\_1

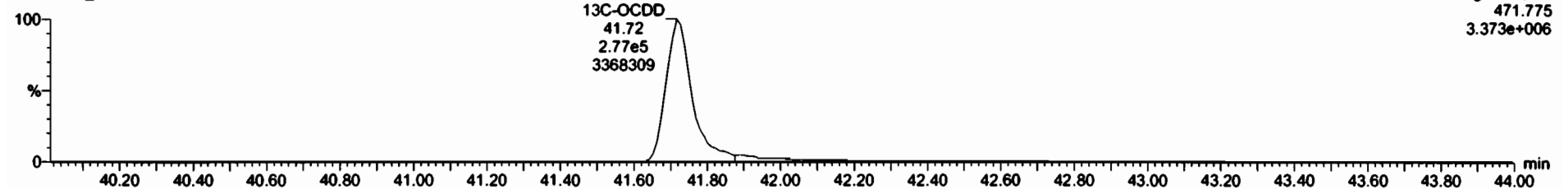


**13C-OCDD**

200605R1\_1

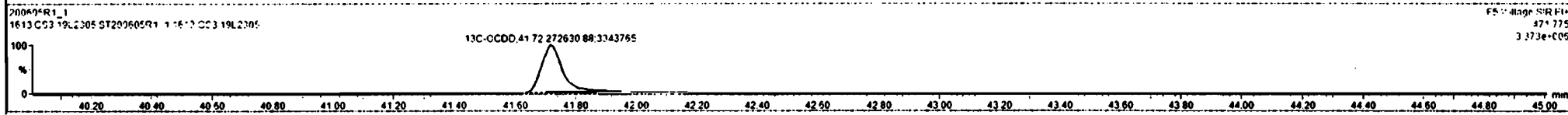


200605R1\_1





#	ID	Name	Resp	IS Resp	Prod RA	RA	aly	RRP	Prod RT	RT	RT Flag	Prod RRT	RRT	Conc.	%Rec	STD out
1	1	2,3,7,8-TCDD	5.69e4	7.99e5	0.77	0.90	NO	0.8683	28.52	25.51	NO	1.001	1.001	9.15	91.5	NO
2	2	1,2,3,7,8-PeCDD	2.02e5	4.69e5	0.63	0.63	NO	0.9661	31.47	31.47	NO	1.001	1.000	47.5	95.8	NO
3	3	1,2,3,4,7,8-HxCDD	1.59e5	3.24e5	1.24	1.26	NO	1.0334	34.84	34.84	NO	1.000	1.000	47.6	95.2	NO
4	4	1,2,3,6,7,8-HxCDD	1.81e5	4.19e5	1.24	1.22	NO	0.8923	34.92	34.94	NO	1.000	1.001	48.5	95.9	NO
5	5	1,2,3,7,8,9-HxCDD	1.58e5	3.84e5	1.24	1.22	NO	0.8869	35.22	35.22	NO	1.000	1.000	48.4	95.9	NO
6	6	1,2,3,4,6,7,8-HpCDD	1.10e5	2.67e5	1.04	1.02	NO	0.8638	36.76	36.77	NO	1.000	1.001	50.2	100	NO
7	7	OCDD	2.38e5	5.17e5	0.89	0.89	NO	0.9736	41.72	41.74	NO	1.000	1.001	99.8	99.8	NO
8	8	2,3,7,8-TCDF	6.65e4	8.97e5	0.77	0.74	NO	0.7510	25.03	25.61	HO	1.001	1.001	9.87	96.7	NO
9	9	1,2,3,7,8-PeCDF	3.07e5	7.20e5	1.55	1.56	NO	0.8925	30.19	30.18	NO	1.001	1.000	47.8	95.6	NO
10	10	2,3,4,7,8-PeCDF	3.07e5	6.77e5	1.55	1.54	NO	0.9348	31.18	31.18	NO	1.001	1.001	48.6	97.1	NO
11	11	1,2,3,4,7,8-HxCDF	1.91e5	4.27e5	1.24	1.20	NO	0.8845	33.95	33.96	NO	1.000	1.000	50.7	101	NO
12	12	1,2,3,6,7,8-HxCDF	2.22e5	4.92e5	1.24	1.20	NO	0.8892	34.06	34.08	NO	1.000	1.000	50.7	101	NO
13	13	2,3,4,6,7,8-HxCDF	2.00e5	4.43e5	1.24	1.22	NO	0.9341	34.69	34.67	HO	1.001	1.000	48.3	96.6	NO
14	14	1,2,3,7,8,9-HxCDF	1.54e5	3.61e5	1.24	1.17	NO	0.8707	35.57	35.59	NO	1.000	1.001	49.7	99.3	NO
15	15	1,2,3,4,6,7,8-HpCDF	1.48e5	3.24e5	1.04	0.99	NO	0.8734	37.36	37.25	NO	1.001	1.000	52.5	105	NO
16	16	1,2,3,4,7,8,9-HpCDF	1.14e5	2.17e5	1.04	0.98	NO	1.0128	39.29	39.21	NO	1.000	1.001	51.7	102	NO
17	17	OCDF	2.80e5	6.45e5	0.89	0.86	NO	0.8065	41.91	41.92	HO	1.000	1.000	99.8	99.8	NO
18	18	13C-2,3,7,8-TCDD	7.09e5	5.93e5	0.77	0.75	NO	1.1583	25.52	26.48	HO	1.028	1.025	102	102	NO
19	19	13C-1,2,3,7,8-PeCDD	4.09e5	5.93e5	0.63	0.64	NO	0.8490	31.71	31.45	NO	1.227	1.217	92.2	93.2	NO
20	20	13C-1,2,3,4,7,8-HxCDD	3.24e5	4.38e5	1.24	1.28	NO	0.7790	34.83	34.83	NO	1.014	1.014	94.8	94.8	NO
21	21	13C-1,2,3,6,7,8-HxCDD	4.19e5	4.38e5	1.24	1.27	NO	1.0197	34.94	34.92	NO	1.017	1.017	94.0	94.0	NO



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Printed: Friday, June 05, 2020 10:41:21 Pacific Daylight Time

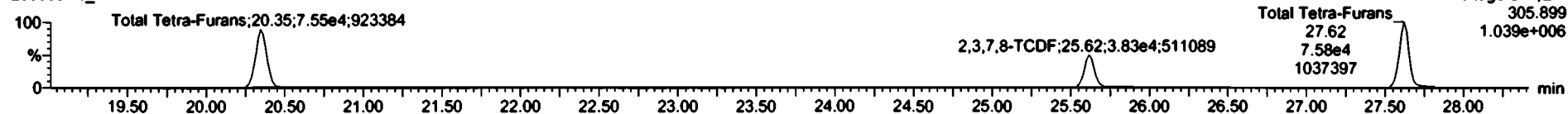
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**2,3,7,8-TCDF**

200605R1\_1

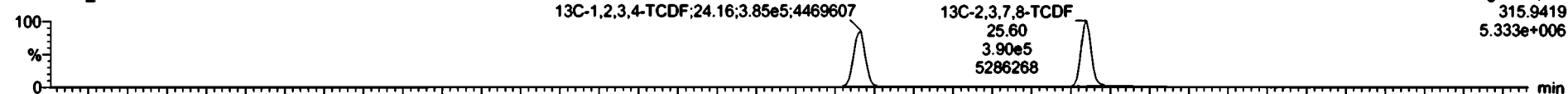


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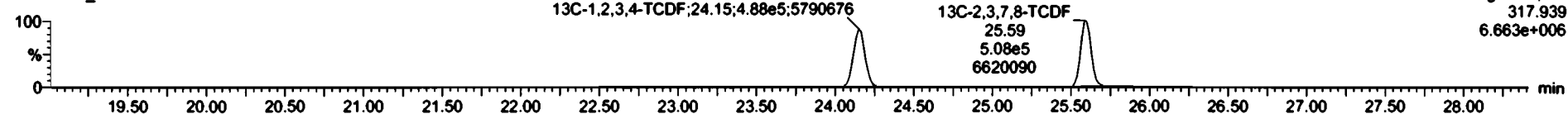


**13C-2,3,7,8-TCDF**

200605R1\_1

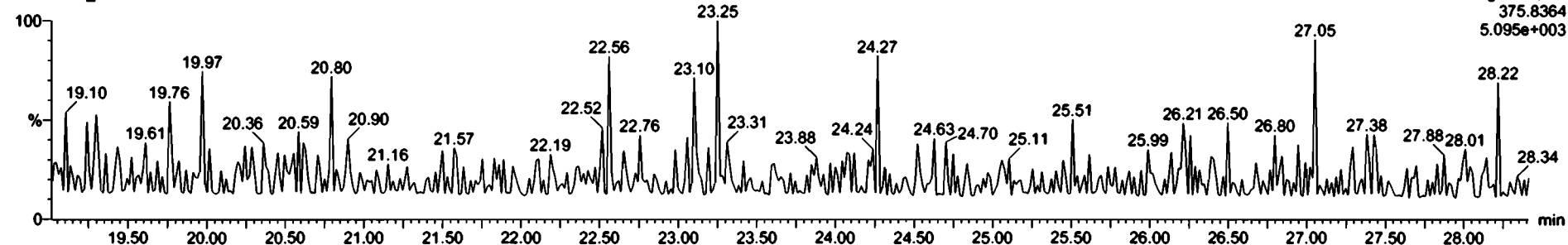


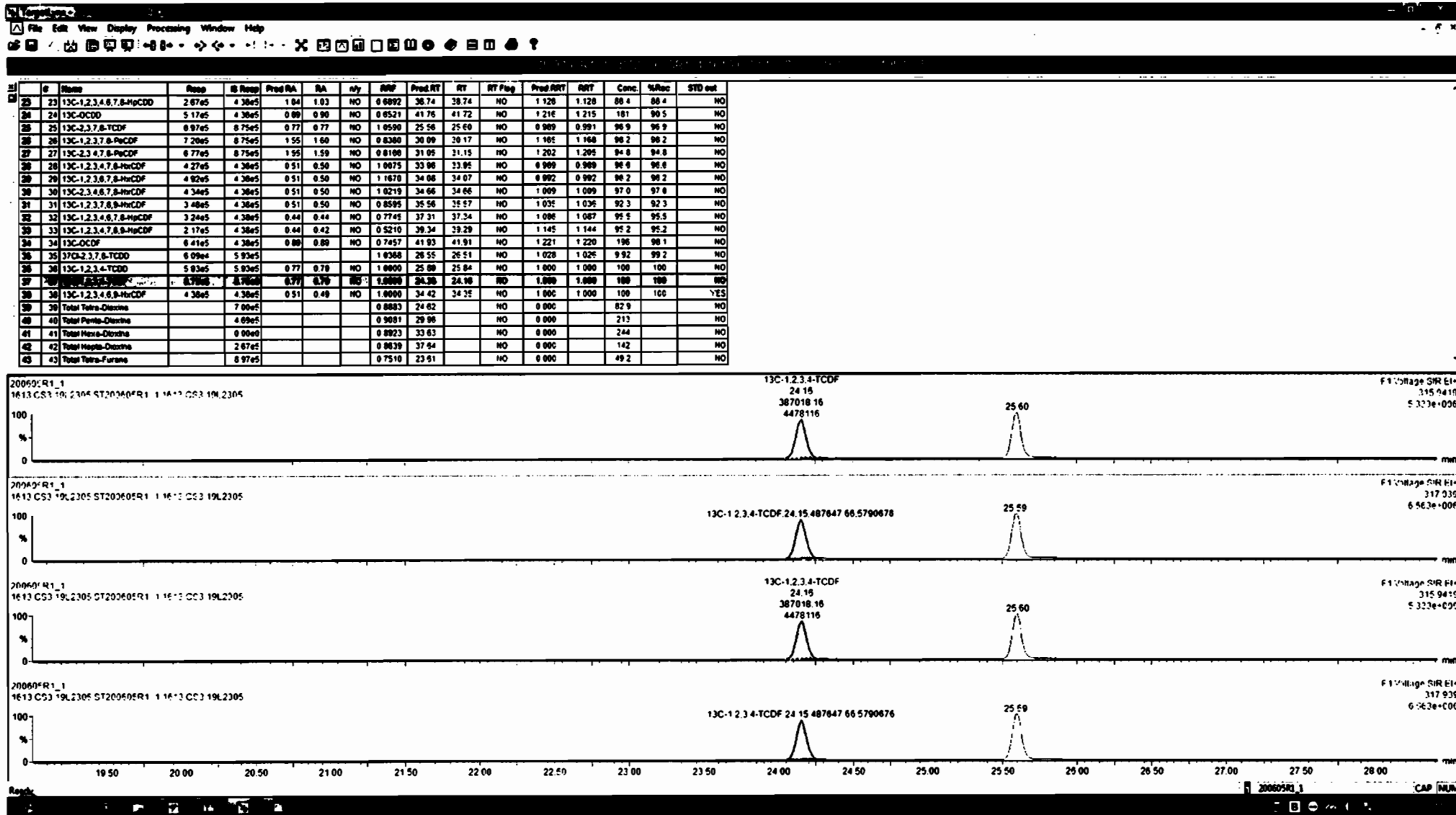
200605R1\_1



**DPE1**

200605R1\_1





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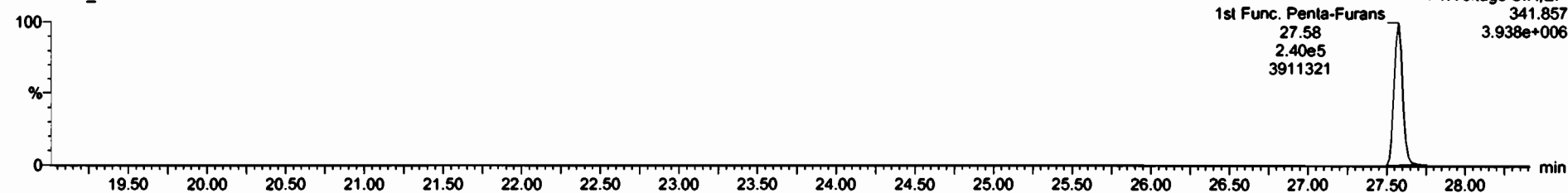
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1st Func. Penta-Furans

200605R1\_1

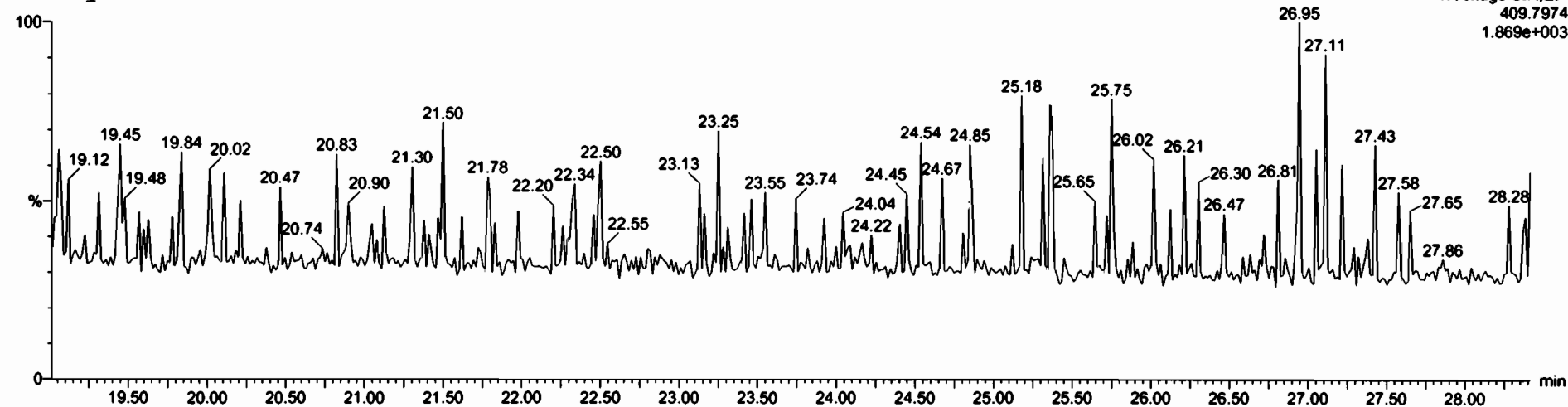


200605R1\_1



DPE6

200605R1\_1

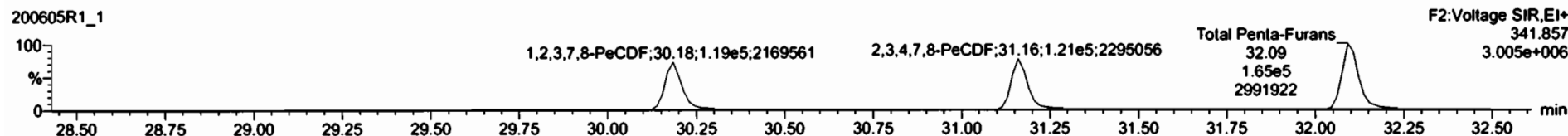
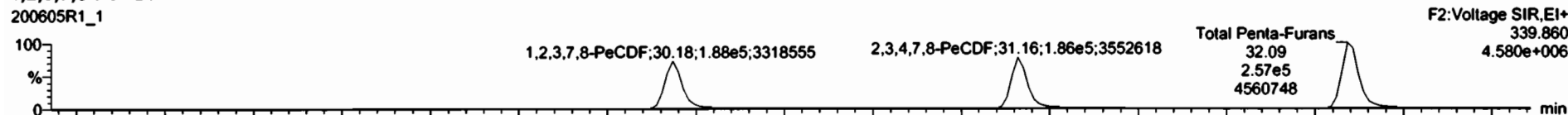


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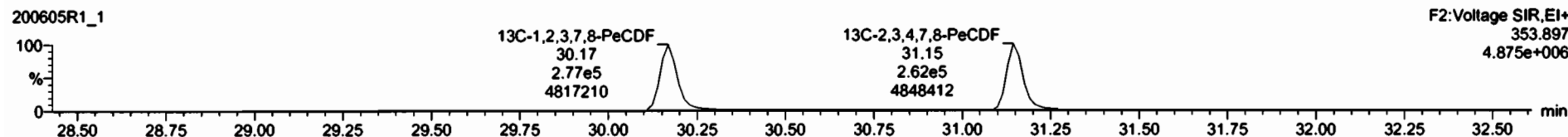
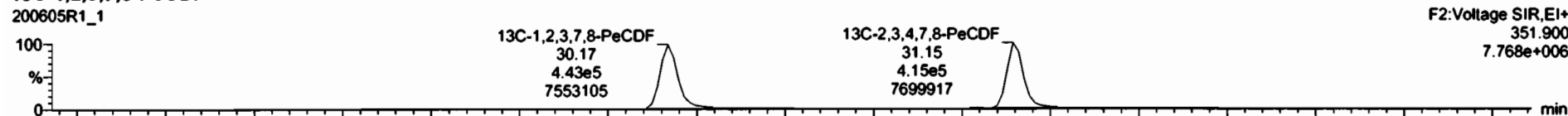
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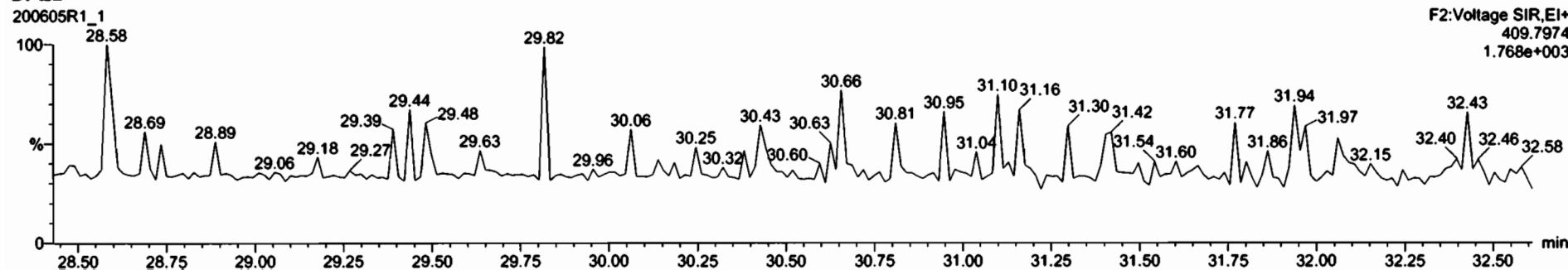
**1,2,3,7,8-PeCDF**



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



**DPE2**



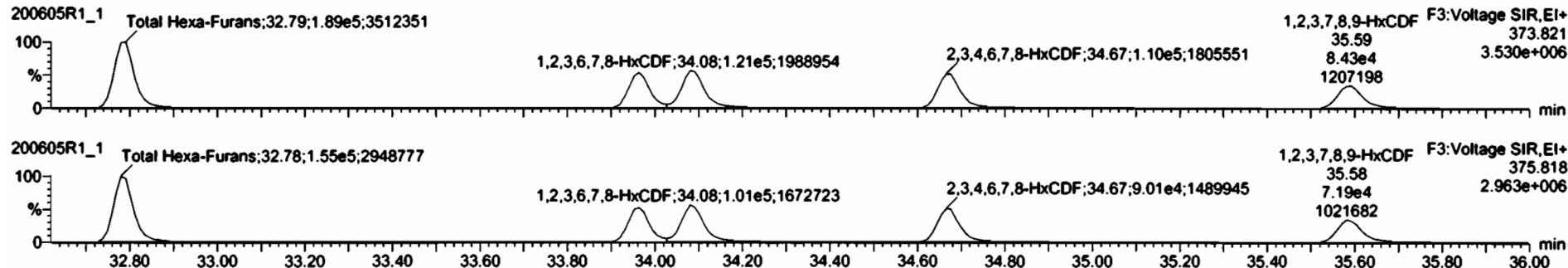
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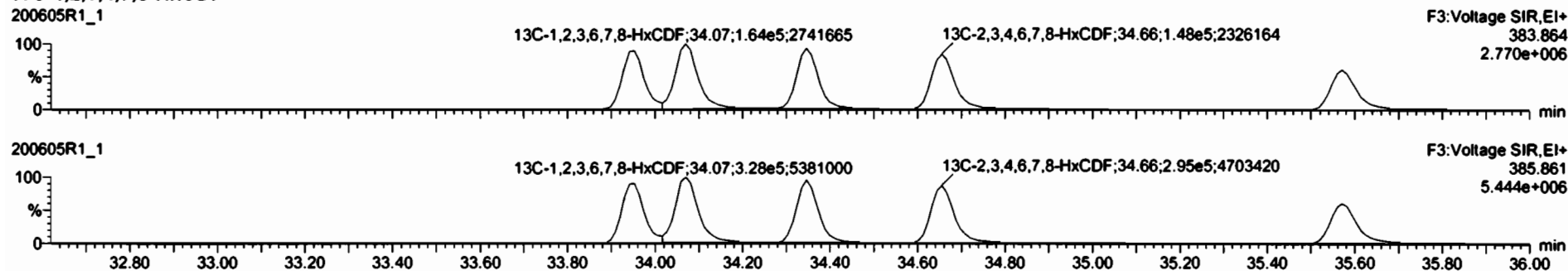
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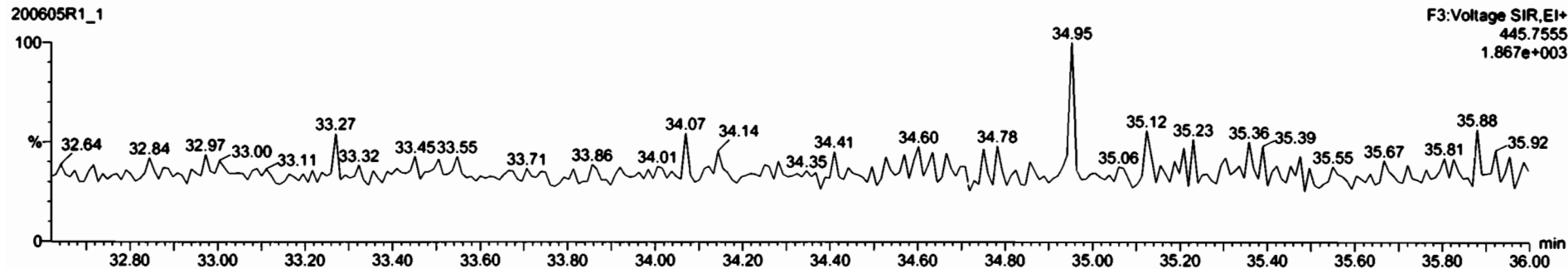
### 1,2,3,4,7,8-HxCDF



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

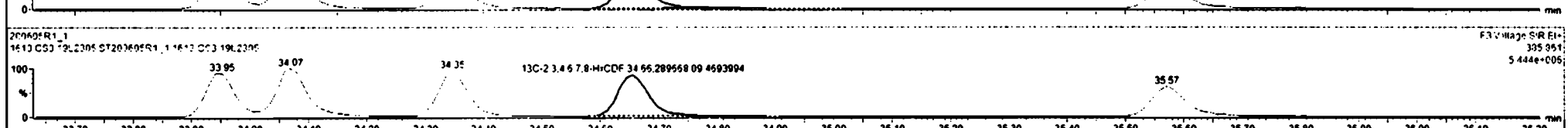
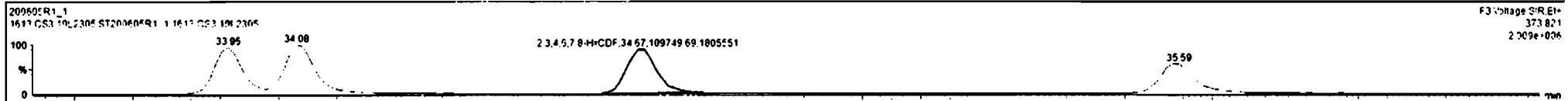


### DPE3

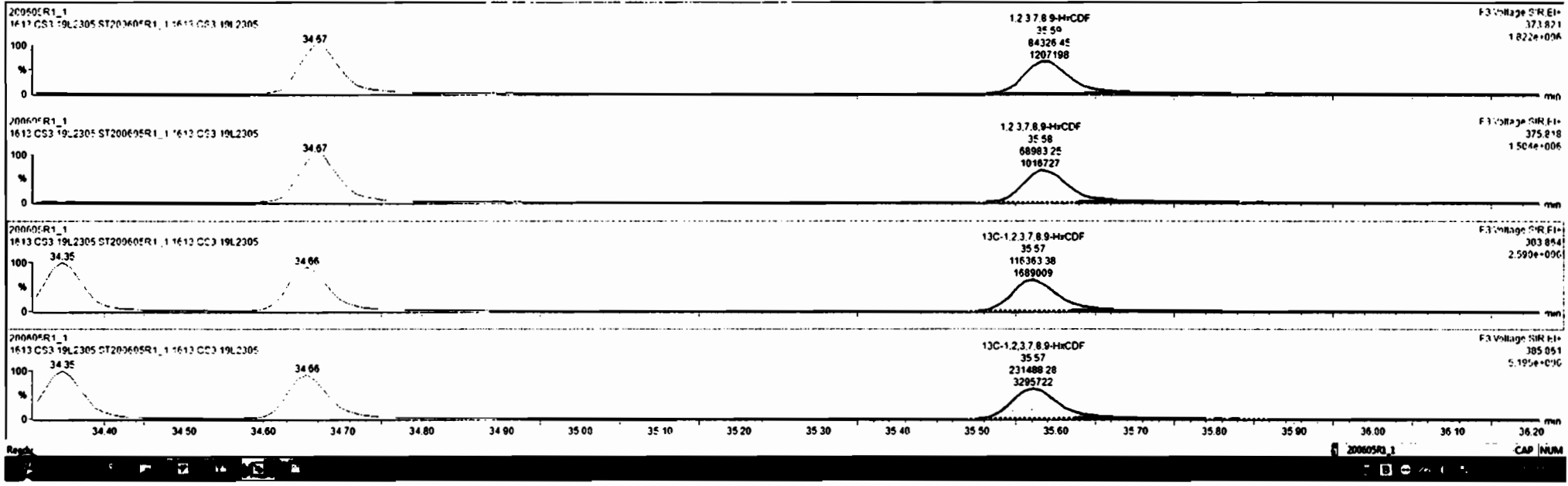




#	Name	Resp	Q Resp	Prod RA	RA	n/y	RPF	Prod RT	RT	RT Flag	Prod RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	5.09e4	7.00e5	0.77	0.80	NO	0.8883	26.52	26.51	NO	1.001	1.001	9.15	91.5	NO
2	1,2,3,7,8-PeCDD	2.02e5	4.69e5	0.63	0.63	NO	0.9081	31.47	31.47	HO	1.001	1.000	47.5	95.0	NO
3	1,2,3,4,7,8-HxCDD	1.59e5	3.24e5	1.24	1.26	NO	1.0334	34.84	34.84	HO	1.000	1.000	47.6	95.2	NO
4	1,2,3,6,7,8-HxCDD	1.81e5	4.19e5	1.24	1.22	NO	0.8923	34.82	34.94	HO	1.000	1.001	48.5	95.9	NO
5	1,2,3,7,8,9-HxCDD	1.56e5	3.64e5	1.24	1.22	NO	0.8809	35.22	35.22	HO	1.000	1.000	48.4	95.9	NO
6	1,2,3,4,6,7,8-HpCDD	1.18e5	2.67e5	1.04	1.02	NO	0.8639	36.76	36.77	NO	1.000	1.001	56.2	100	NO
7	OCDD	2.75e5	5.17e5	0.80	0.87	NO	0.9136	41.72	41.74	HO	1.000	1.001	99.5	99.5	NO
8	2,3,7,8-TCDF	6.95e4	8.97e5	0.77	0.74	NO	0.7510	25.63	25.61	NO	1.001	1.001	9.87	96.7	NO
9	1,2,3,7,8-PeCDF	3.07e5	7.20e5	1.55	1.58	NO	0.8925	30.19	30.18	HO	1.001	1.000	47.6	95.6	NO
10	1,2,3,4,7,8-PeCDF	3.07e5	6.77e5	1.55	1.54	NO	0.9348	31.16	31.16	HO	1.001	1.001	48.6	97.1	NO
11	1,2,3,4,7,8-HxCDF	1.91e5	4.27e5	1.24	1.20	NO	0.8645	33.95	33.95	HO	1.000	1.000	50.7	101	NO
12	1,2,3,6,7,8-HxCDF	2.22e5	4.92e5	1.24	1.20	NO	0.8892	34.08	34.08	HO	1.000	1.000	50.7	101	NO
13	1,2,3,7,8,9-HxCDF	2.80e5	4.34e5	1.24	1.22	NO	0.9341	34.60	34.67	HO	1.001	1.000	48.3	96.6	NO
14	1,2,3,4,7,8,9-HpCDF	1.56e5	3.61e5	1.24	1.17	NO	0.8707	35.57	35.59	HO	1.001	1.001	49.7	99.3	NO
15	1,2,3,4,6,7,8-HpCDF	1.49e5	3.24e5	1.04	0.99	NO	0.8734	37.38	37.35	HO	1.001	1.000	52.5	105	NO
16	OCDF	1.14e5	2.17e5	1.04	0.98	NO	1.0128	39.29	39.31	HO	1.000	1.001	51.7	102	NO
17	13C-2,3,7,8-TCDD	2.80e5	6.45e5	0.80	0.86	NO	0.8895	41.91	41.92	HO	1.000	1.000	99.8	99.8	NO
18	13C-2,3,7,8-PeCDD	7.00e5	5.93e5	0.77	0.75	NO	1.1563	26.52	26.48	HO	1.025	1.025	102	102	NO
19	13C-1,2,3,7,8-PeCDD	4.69e5	5.93e5	0.63	0.64	NO	0.8490	31.71	31.45	HO	1.227	1.217	93.2	93.2	NO
20	13C-1,2,3,4,7,8-HpCDD	3.24e5	4.38e5	1.24	1.28	NO	0.7790	34.87	34.82	HO	1.014	1.014	94.6	94.8	NO
21	13C-1,2,3,6,7,8-HxCDD	4.19e5	4.38e5	1.24	1.27	NO	1.0167	34.94	34.92	HO	1.017	1.017	94.0	94.0	NO



#	Name	Resp	IS Resp	Pred RA	RA	My	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD est
1	2,3,7,8-TCDD	5.69e4	7.00e5	0.77	0.80	NO	0.8883	26.52	26.51	NO	1.001	1.001	9.15	91.5	NO
2	1,2,3,7,8-PeCDD	2.02e5	4.69e5	0.63	0.63	NO	0.9081	31.47	31.47	NO	1.001	1.000	47.5	95.8	NO
3	1,2,3,4,7,8-HxCDD	1.59e5	3.24e5	1.24	1.26	NO	1.0334	34.84	34.84	HO	1.000	1.000	47.6	95.2	NO
4	1,2,3,6,7,8-HxCDD	1.81e5	4.19e5	1.24	1.22	NO	0.8923	34.92	34.94	HO	1.000	1.001	46.5	95.9	NO
5	1,2,3,7,8,9-HxCDD	1.56e5	3.84e5	1.24	1.22	NO	0.8989	35.22	35.22	HO	1.000	1.000	46.4	96.9	NO
6	1,2,3,4,6,7,8-HxCDD	1.16e5	2.67e5	1.84	1.82	NO	0.8636	36.76	36.77	HO	1.000	1.001	50.2	100	NO
7	OCDD	2.35e5	5.17e5	0.88	0.87	NO	0.9136	41.72	41.74	NO	1.000	1.001	99.5	99.5	NO
8	2,3,7,8-TCDF	6.65e4	8.97e5	0.77	0.74	NO	0.7510	25.63	25.61	NO	1.001	1.001	9.67	96.7	NO
9	1,2,3,7,8-PeCDF	3.07e5	7.20e5	1.55	1.58	NO	0.8925	30.19	30.18	NO	1.001	1.000	47.8	95.6	NO
10	1,2,3,4,7,8-PeCDF	3.07e5	6.77e5	1.55	1.54	NO	0.9348	31.18	31.16	NO	1.001	1.001	46.6	97.1	NO
11	1,2,3,4,7,8-HxCDF	1.91e5	4.27e5	1.24	1.20	NO	0.8645	33.95	33.95	HO	1.000	1.000	50.7	101	NO
12	1,2,3,6,7,8-HxCDF	2.22e5	4.92e5	1.24	1.20	NO	0.8892	34.06	34.08	HO	1.000	1.000	50.7	101	NO
13	1,2,3,4,6,7,8-HxCDF	2.00e5	4.34e5	1.24	1.22	NO	0.9241	34.69	34.67	HO	1.001	1.000	49.3	98.5	NO
14	1,2,3,7,8,9-HxCDF	1.53e5	3.80e5	1.24	1.22	NO	0.8787	35.57	35.59	HO	1.000	1.001	50.6	101	NO
15	1,2,3,4,6,7,8-HxCDF	1.49e5	3.24e5	1.84	0.90	NO	0.8734	37.38	37.35	HO	1.001	1.000	52.5	105	NO
16	1,2,3,4,7,8,9-HxCDF	1.14e5	2.17e5	1.84	0.90	NO	1.0128	39.29	39.31	HO	1.000	1.001	51.7	102	NO
17	OCDF	2.80e5	6.45e5	0.88	0.88	NO	0.8955	41.91	41.92	HO	1.000	1.000	99.8	99.8	NO
18	13C-2,3,7,8-TCDD	7.00e5	5.93e5	0.77	0.75	NO	1.1563	26.52	26.48	NO	1.025	1.025	102	102	NO
19	13C-1,2,3,7,8-PeCDD	4.69e5	5.93e5	0.63	0.64	NO	0.8490	31.71	31.45	NO	1.227	1.217	93.2	93.2	NO
20	13C-1,2,3,4,7,8-HxCDD	3.24e5	4.38e5	1.24	1.28	NO	0.7790	34.83	34.83	HO	1.014	1.014	94.8	94.8	NO
21	13C-1,2,3,6,7,8-HxCDD	4.19e5	4.38e5	1.24	1.27	NO	1.0167	34.94	34.92	HO	1.017	1.017	94.0	94.0	NO



Dataset: Untitled

Last Altered: Friday, June 05, 2020 10:39:58 Pacific Daylight Time  
Printed: Friday, June 05, 2020 10:41:21 Pacific Daylight Time

Name: 200605R1\_1, Date: 05-Jun-2020, Time: 09:52:20, ID: ST200605R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

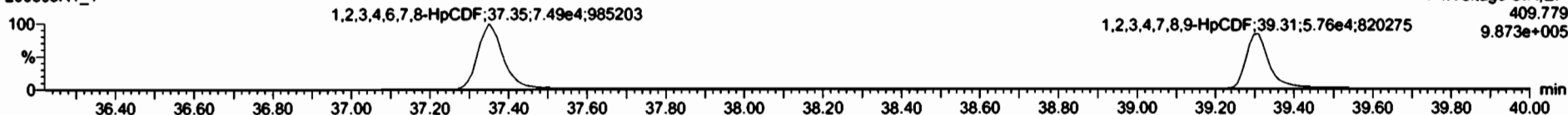
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200605R1\_1



F4: Voltage SIR, EI+  
407.782  
9.803e+005

200605R1\_1



F4: Voltage SIR, EI+  
409.779  
9.873e+005

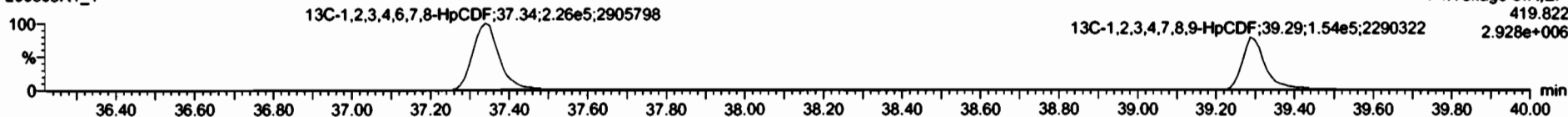
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200605R1\_1



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1.273e+006

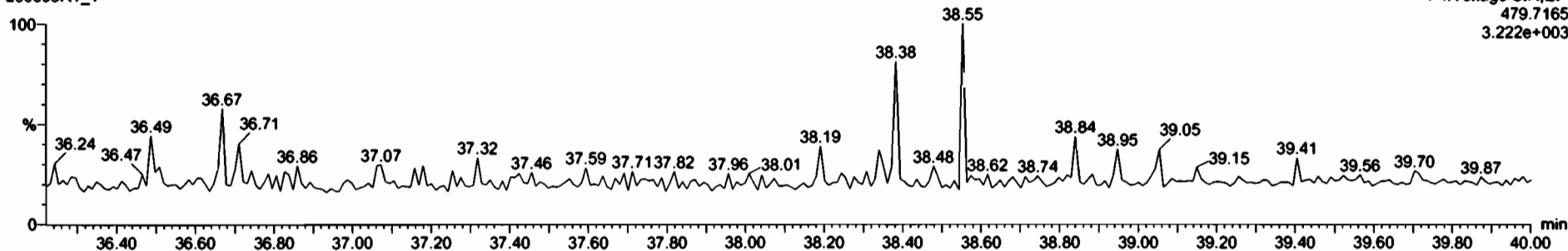
200605R1\_1



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2.928e+006

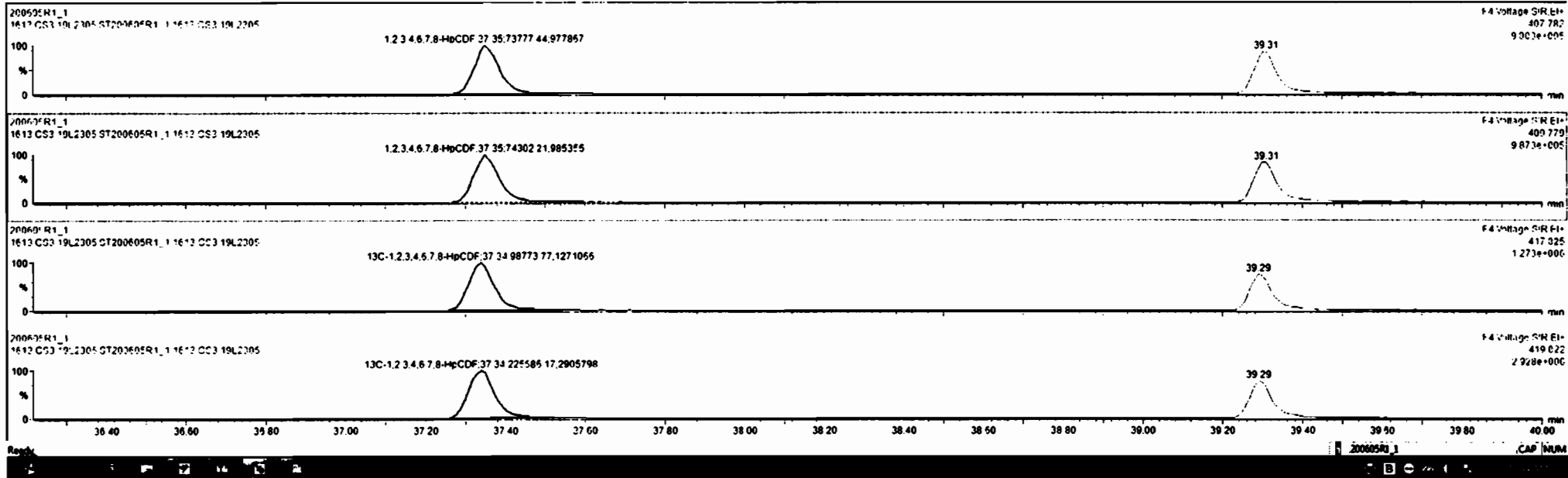
**DPE4**

200605R1\_1



F4: Voltage SIR, EI+  
479.7165  
3.222e+003

#	Q	Name	Rate	IS Resp	Pred RA	RA	n/y	RRP	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	1	2,3,7,8-TCDD	5.69e4	7.88e5	0.77	0.80	NO	0.8883	26.52	26.51	NO	1.001	1.001	91.5	91.5	NO
2	2	1,2,3,7,8-PeCDD	2.02e5	4.69e5	0.63	0.63	NO	0.9881	31.47	31.47	NO	1.001	1.000	47.5	95.8	NO
3	3	1,2,3,4,7,8-HxCDD	1.59e5	3.24e5	1.24	1.26	NO	1.0334	34.84	34.84	NO	1.000	1.000	47.5	95.2	NO
4	4	1,2,3,6,7,8-HxCDD	1.81e5	4.19e5	1.24	1.22	NO	0.8823	34.92	34.94	NO	1.000	1.001	48.5	96.9	NO
5	5	1,2,3,7,8,9-HxCDD	1.59e5	3.84e5	1.24	1.22	NO	0.8889	35.22	35.22	NO	1.000	1.000	48.4	96.9	NO
6	6	1,2,3,4,6,7,8-HpCDD	1.18e5	2.67e5	1.04	1.02	NO	0.8639	36.76	36.77	NO	1.000	1.001	50.2	100	NO
7	7	OCDD	2.35e5	5.17e5	0.88	0.87	NO	0.9136	41.72	41.74	NO	1.000	1.001	99.5	99.5	NO
8	8	2,3,7,8-TCDF	6.85e4	6.97e5	0.77	0.74	NO	0.7510	25.63	25.61	NO	1.001	1.001	9.87	98.7	NO
9	9	1,2,3,7,8-PeCDF	3.07e5	7.20e5	1.55	1.58	NO	0.8925	30.19	30.18	NO	1.001	1.000	47.6	95.6	NO
10	10	2,3,4,7,8-PeCDF	3.07e5	6.77e5	1.55	1.54	NO	0.9348	31.18	31.16	NO	1.001	1.001	48.5	97.1	NO
11	11	1,2,3,4,7,8-HxCDF	1.91e5	4.27e5	1.24	1.20	NO	0.8845	33.95	33.96	NO	1.000	1.000	50.7	101	NO
12	12	1,2,3,6,7,8-HxCDF	2.22e5	4.92e5	1.24	1.20	NO	0.8682	34.06	34.08	NO	1.000	1.000	50.7	101	NO
13	13	2,3,4,6,7,8-HxCDF	2.00e5	4.34e5	1.24	1.22	NO	0.9341	34.69	34.67	NO	1.001	1.000	49.3	98.5	NO
14	14	1,2,3,7,8,9-HxCDF	1.53e5	3.48e5	1.24	1.22	NO	0.8707	35.57	35.59	NO	1.000	1.001	50.6	101	NO
15	15	1,2,3,4,6,7,8-HpCDF	1.48e5	3.34e5	1.04	1.00	NO	0.8734	37.36	37.36	NO	1.001	1.000	52.3	100	NO
16	16	1,2,3,4,7,8,9-HpCDF	1.14e5	2.17e5	1.04	0.98	NO	1.0128	39.29	39.31	NO	1.000	1.001	51.7	102	NO
17	17	OCDF	2.60e5	6.45e5	0.88	0.86	NO	0.8085	41.91	41.92	NO	1.000	1.000	99.8	99.8	NO
18	18	13C-2,3,7,8-TCDD	7.09e5	5.93e5	0.77	0.75	NO	1.1563	25.52	25.48	NO	1.025	1.025	102	102	NO
19	19	13C-1,2,3,7,8-PeCDD	4.69e5	5.93e5	0.63	0.64	NO	0.8490	31.71	31.45	NO	1.227	1.217	92.2	92.2	NO
20	20	13C-1,2,3,4,7,8-HxCDD	3.34e5	4.38e5	1.24	1.28	NO	0.7798	34.83	34.83	NO	1.014	1.014	94.8	94.8	NO
21	21	13C-1,2,3,6,7,8-HxCDD	4.19e5	4.38e5	1.24	1.27	NO	1.0167	34.94	34.92	NO	1.017	1.017	94.0	94.8	NO



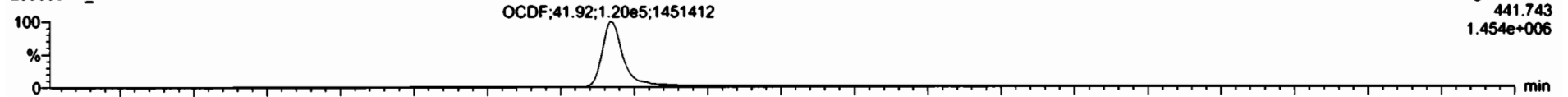
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Printed: Friday, June 05, 2020 10:41:21 Pacific Daylight Time

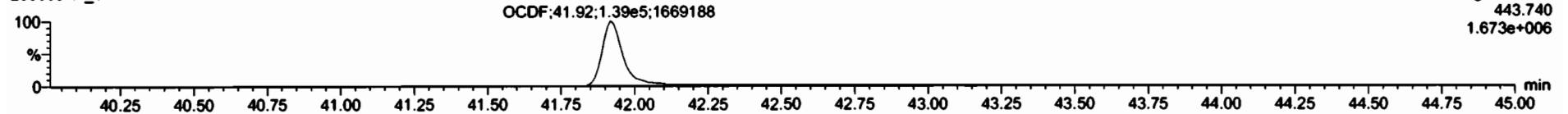
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**OCDF**

200605R1\_1

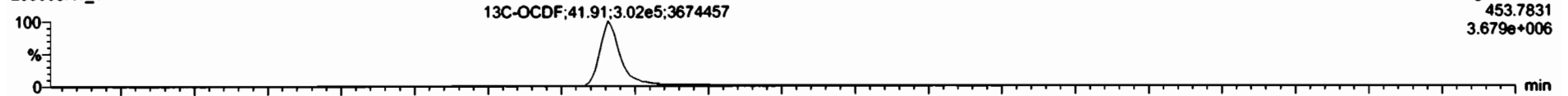


200605R1\_1

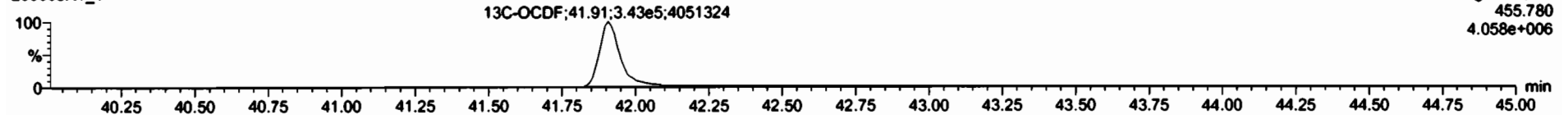


**13C-OCDF**

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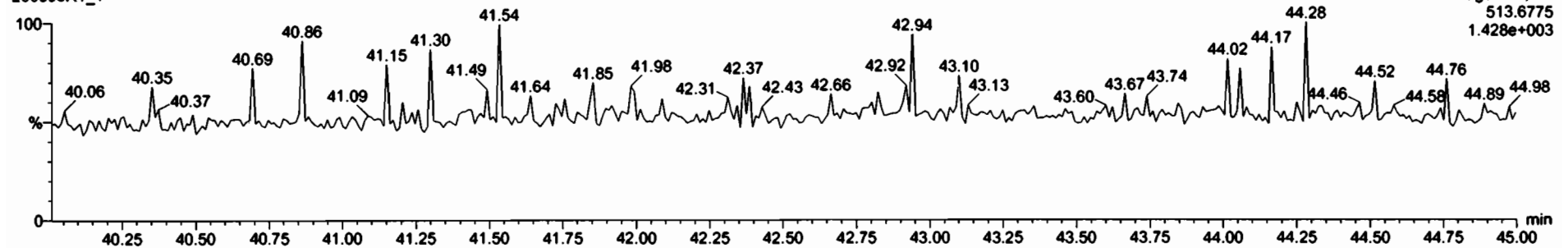


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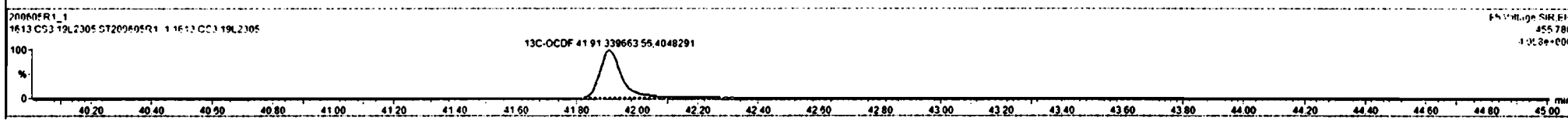
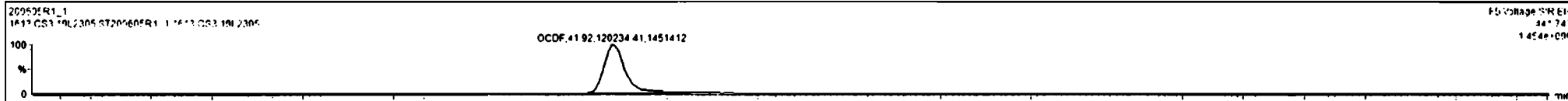


**DPE5**

200605R1\_1



#	Name	Resp	IS Resp	Pred RA	RA	dy	RP	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	5.09e4	7.00e5	0.77	0.80	NO	0.8883	26.52	26.51	NO	1.001	1.001	9.15	91.5	NO
2	1,2,3,7,8-PeCDD	2.02e5	4.69e5	0.63	0.63	NO	0.8881	31.47	31.47	NO	1.001	1.000	47.5	95.8	NO
3	1,2,3,4,7,8-HxCDD	1.59e5	3.24e5	1.24	1.26	NO	1.0334	34.84	34.84	NO	1.000	1.000	47.5	95.2	NO
4	1,2,3,6,7,8-HxCDD	1.81e5	4.19e5	1.24	1.22	NO	0.8923	34.92	34.94	NO	1.000	1.001	48.5	95.9	NO
5	1,2,3,7,8,9-HxCDD	1.56e5	3.84e5	1.24	1.22	NO	0.8889	35.22	35.22	NO	1.000	1.000	48.4	95.9	NO
6	1,2,3,4,6,7,8-HpCDD	1.18e5	2.67e5	1.84	1.82	NO	0.8839	38.78	38.77	NO	1.000	1.001	50.2	100	NO
7	OCDF	2.35e5	5.17e5	0.89	0.87	NO	0.9138	41.72	41.74	NO	1.000	1.001	99.5	99.5	NO
8	2,3,7,8-TCDF	6.85e4	8.97e5	0.77	0.74	NO	0.7510	25.63	25.61	NO	1.001	1.001	9.87	98.7	NO
9	1,2,3,7,8-PeCDF	3.07e5	7.20e5	1.55	1.58	NO	0.8925	30.19	30.18	NO	1.001	1.000	47.6	95.6	NO
10	1,2,3,4,7,8-HxCDF	3.07e5	6.77e5	1.55	1.54	NO	0.9348	31.18	31.16	NO	1.001	1.001	48.6	97.1	NO
11	1,2,3,4,7,8,9-HxCDF	1.91e5	4.27e5	1.24	1.20	NO	0.8845	33.95	33.96	NO	1.000	1.000	50.7	101	NO
12	1,2,3,6,7,8-HxCDF	2.22e5	4.92e5	1.24	1.20	NO	0.8892	34.08	34.08	NO	1.000	1.000	50.7	101	NO
13	1,2,3,4,6,7,8-HpCDF	2.90e5	4.34e5	1.24	1.22	NO	0.9341	34.69	34.67	NO	1.001	1.000	49.3	98.5	NO
14	1,2,3,7,8,9-HxCDF	1.53e5	3.48e5	1.24	1.22	NO	0.8707	35.57	35.59	NO	1.000	1.001	50.6	101	NO
15	1,2,3,4,6,7,8-HpCDF	1.48e5	3.24e5	1.84	0.89	NO	0.8734	37.38	37.35	NO	1.001	1.000	52.3	105	NO
16	1,2,3,4,7,8,9-HpCDF	1.14e5	2.17e5	1.84	0.89	NO	1.0128	39.29	39.31	NO	1.000	1.001	51.7	103	NO
17	OCDF	2.35e5	6.47e5	0.89	0.87	NO	0.8885	41.91	41.92	NO	1.000	1.000	99.7	99.7	NO
18	13C-2,3,7,8-TCDD	7.00e5	5.93e5	0.77	0.75	NO	1.1563	26.52	26.48	NO	1.025	1.025	102	102	NO
19	13C-1,2,3,7,8-PeCDD	4.69e5	5.93e5	0.63	0.64	NO	0.8490	31.71	31.45	NO	1.227	1.217	93.2	93.2	NO
20	13C-1,2,3,4,7,8-HxCDD	3.24e5	4.38e5	1.24	1.28	NO	0.7790	34.83	34.83	NO	1.014	1.014	94.8	94.8	NO
21	13C-1,2,3,6,7,8-HxCDD	4.19e5	4.38e5	1.24	1.27	NO	1.0187	34.94	34.92	NO	1.017	1.017	94.0	94.0	NO

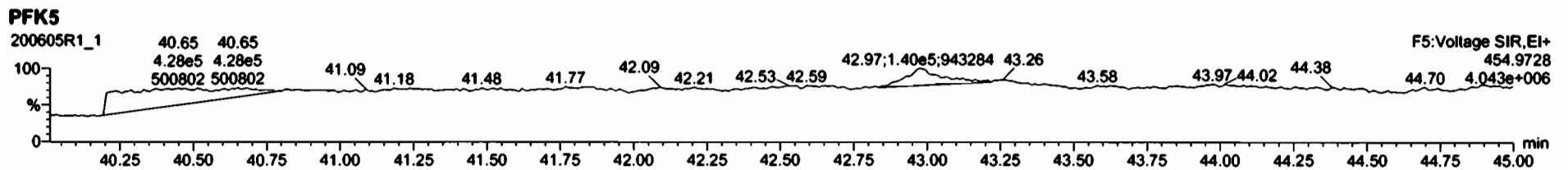
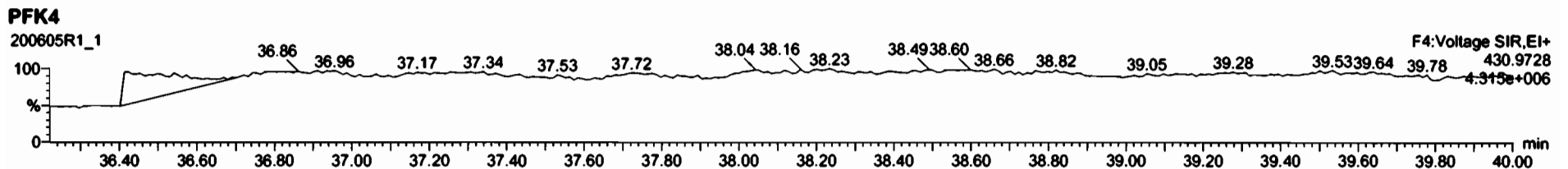
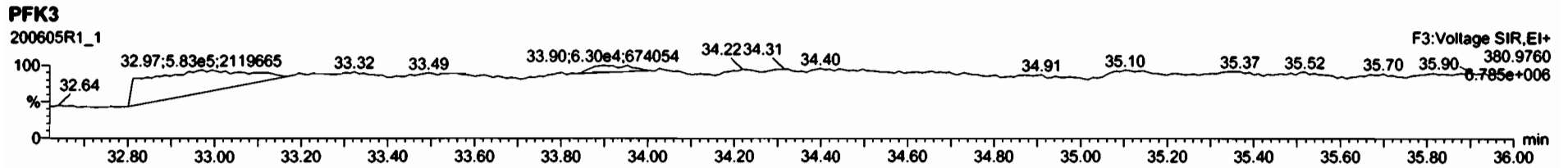
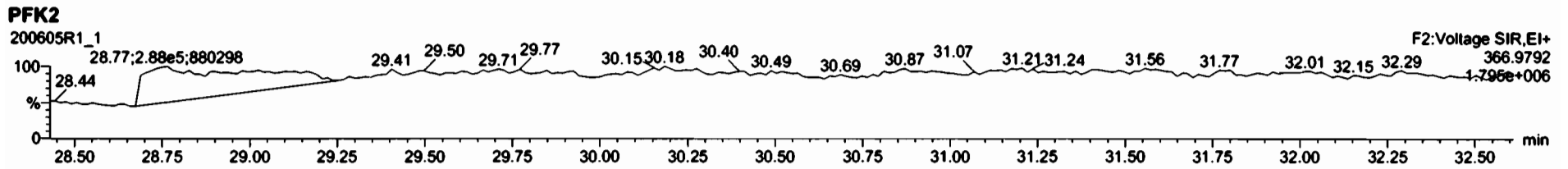
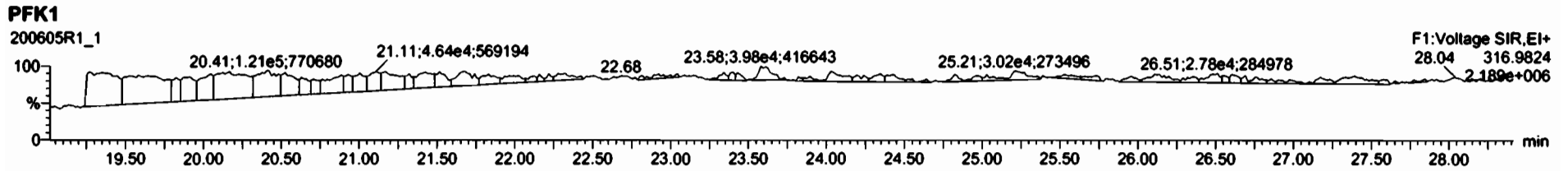




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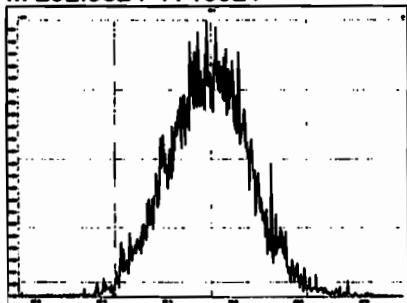
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Name: 200605R1\_1, Date: 05-Jun-2020, Time: 09:52:20, ID: ST200605R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

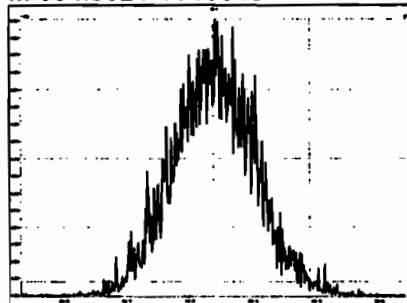


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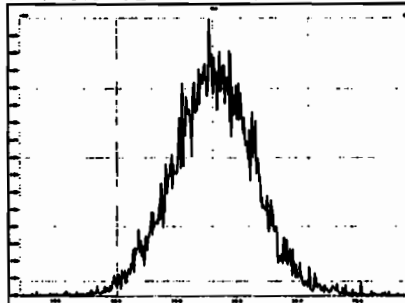
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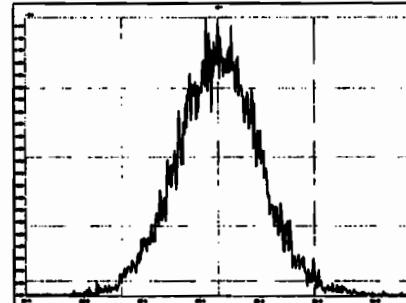
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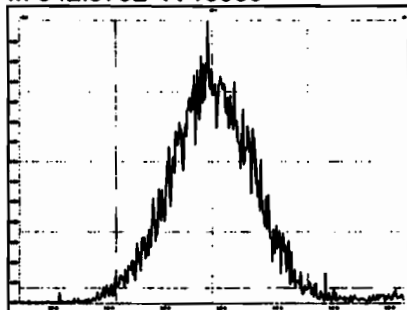
M 318.9792 R 10460



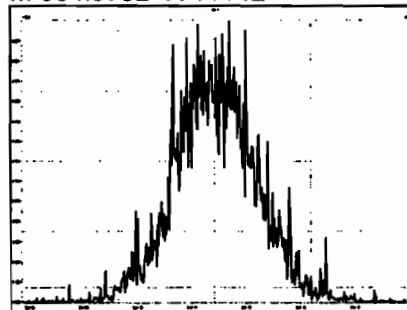
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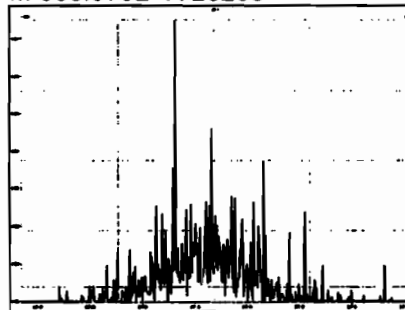
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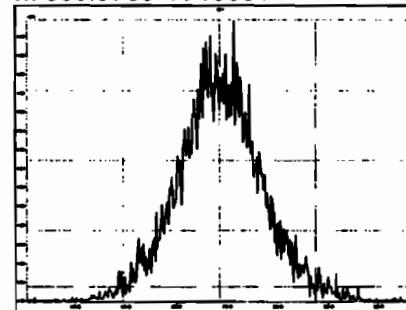
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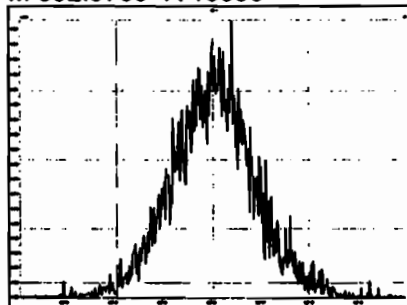
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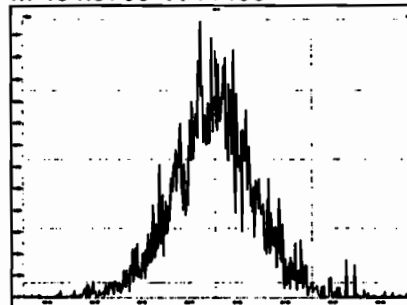
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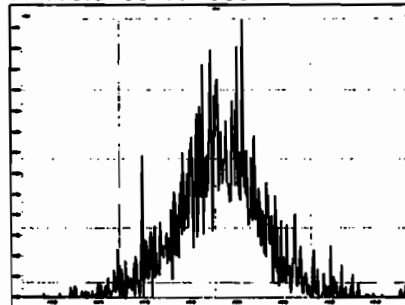
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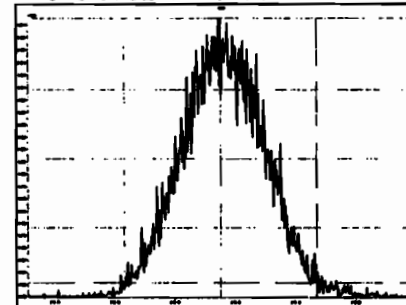
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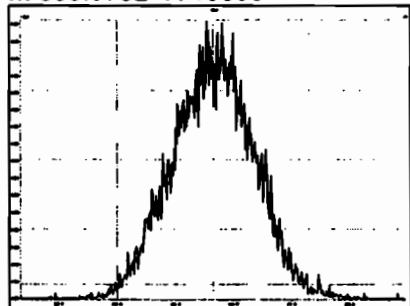


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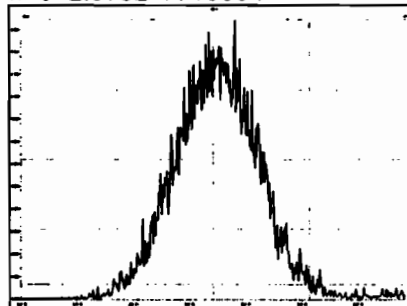


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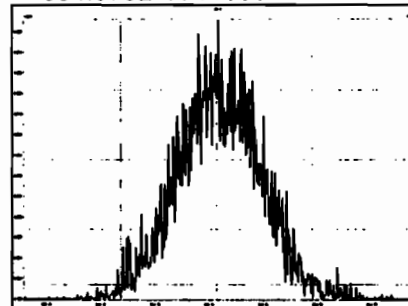
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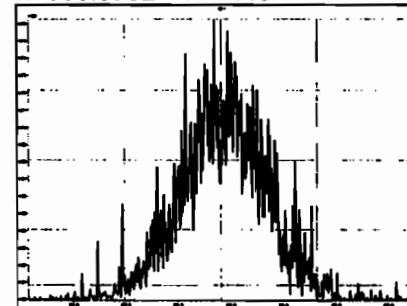
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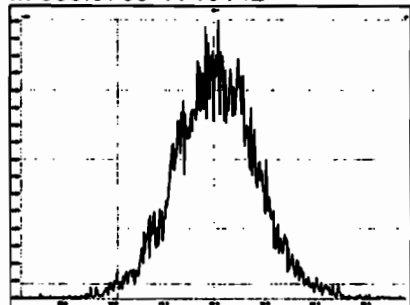
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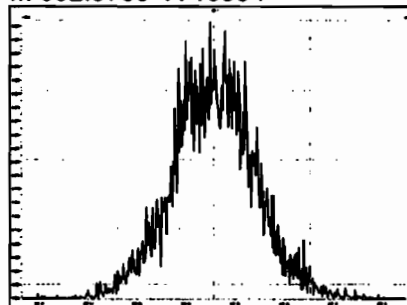
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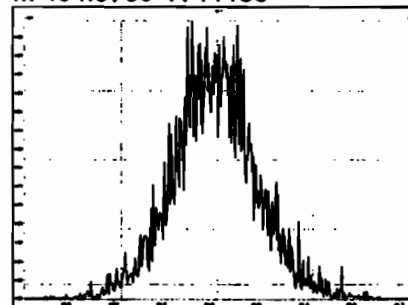
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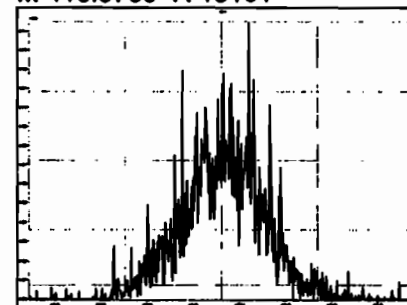
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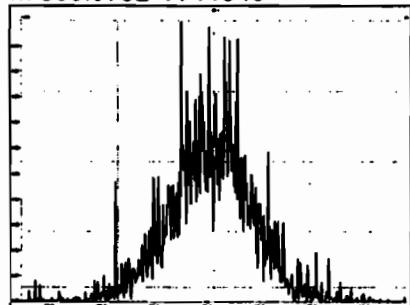
M 404.9760 R 11186



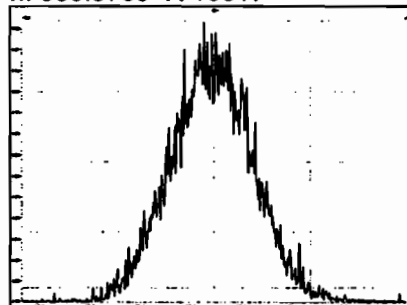
M 416.9760 R 13101



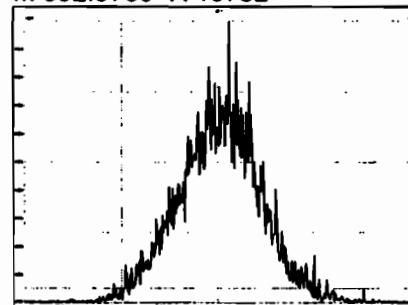
M 366.9792 R 11940



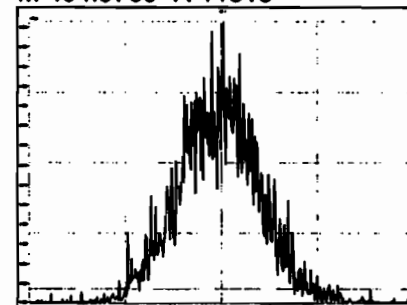
M 380.9760 R 10617



M 392.9760 R 10782

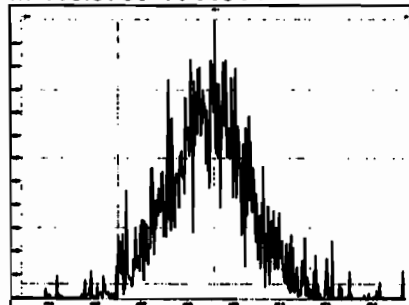


M 404.9760 R 11313

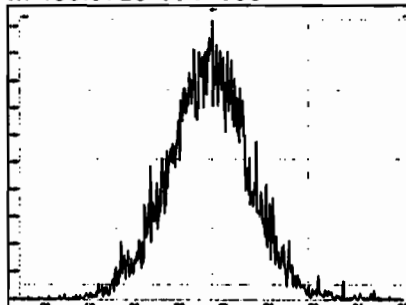


Printed: Friday, June 05, 2020 22:22:32 Pacific Daylight Time

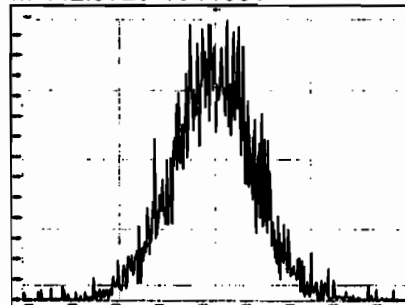
M 416.9760 R 11914



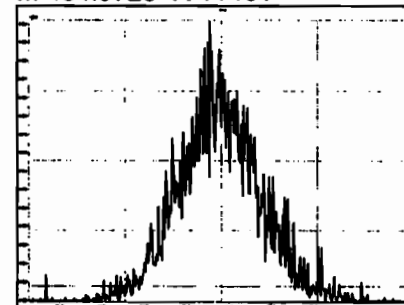
M 430.9728 R 11090



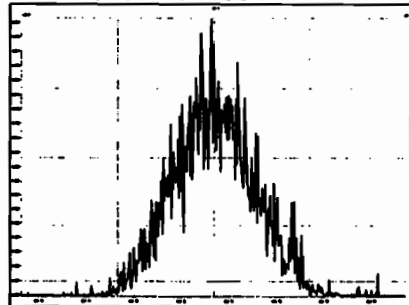
M 442.9728 R 11061



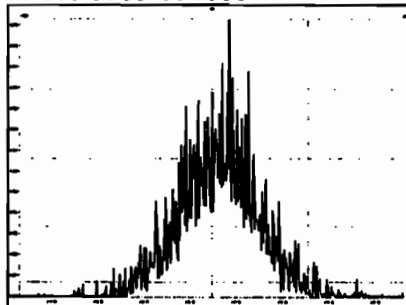
M 454.9728 R 11451



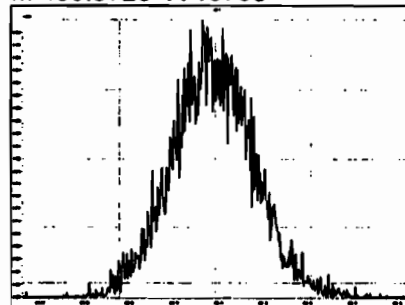
M 404.9760 R 11364



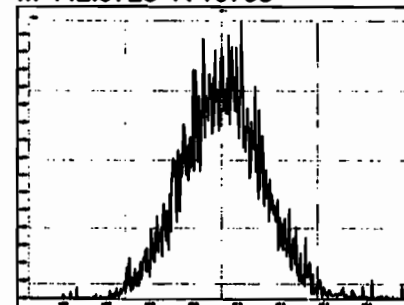
M 416.9760 R 13867



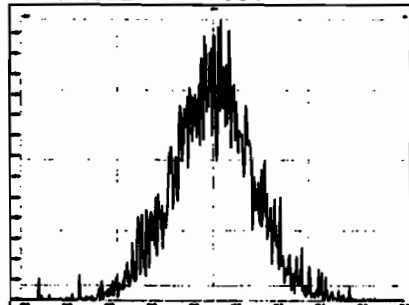
M 430.9728 R 10753



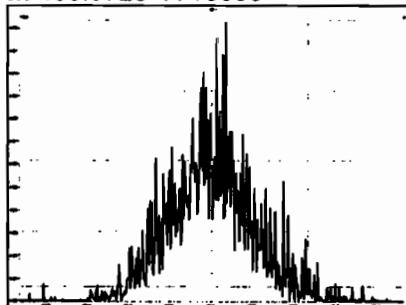
M 442.9728 R 10798



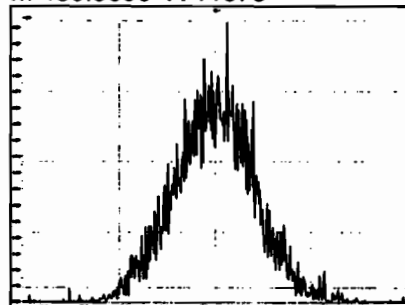
M 454.9728 R 11585



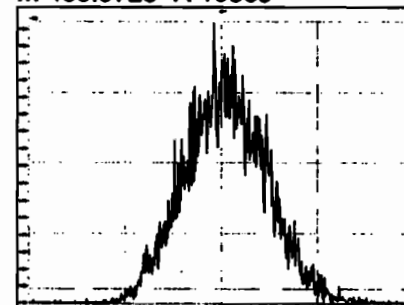
M 466.9728 R 13300



M 480.9696 R 11573

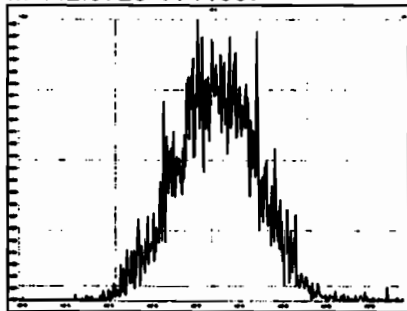


M 430.9728 R 10869

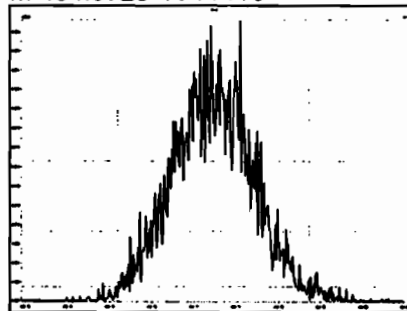


Printed: Friday, June 05, 2020 22:22:32 Pacific Daylight Time

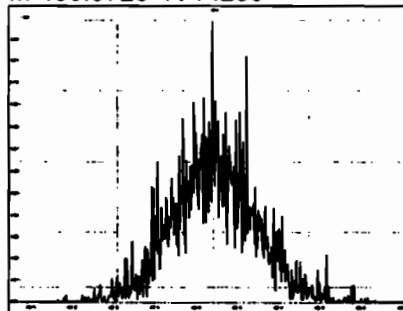
M 442.9728 R 11007



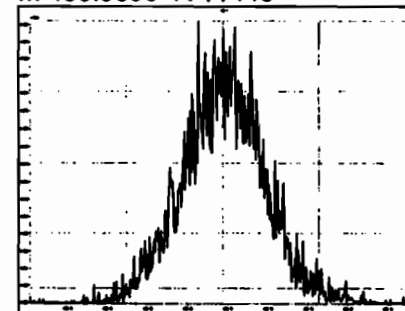
M 454.9728 R 11416



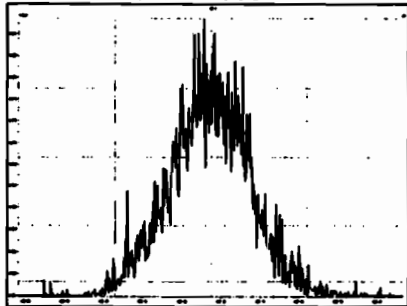
M 466.9728 R 14250



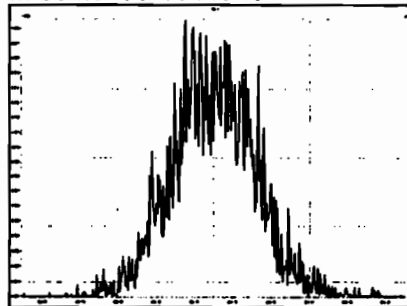
M 480.9696 R 11443



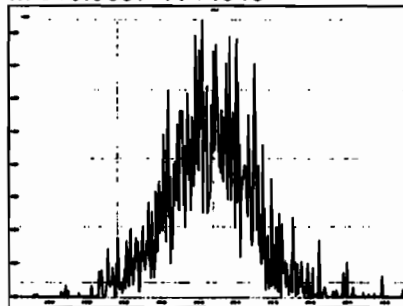
M 492.9696 R 11363



M 504.9696 R 11743



M 516.9697 R 14046



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Reg. Calibration ID: ST200702D1-1

Reviewed By: C7 07/03/2020

*Initials & Date*

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>	Mass resolution $\geq$	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614   1699   429   1613/1668/8280		
TGDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>
First and last eluters present?	<input type="checkbox" value="NA"/>	<input type="checkbox"/>	GC Break <20%	<input type="checkbox" value="NA"/>	
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b><u>8280 CS1 End Standard:</u></b>		
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox" value="NA"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>Comments:</b>          		
Correct ICAL referenced?	<input type="checkbox" value="DB"/>	<input type="checkbox"/>			
<b><u>Run Log:</u></b>					
- Correct instrument listed?	<input type="checkbox"/>	<input type="checkbox" value="N"/>			
- Samples within 12 hour clock?	Y	N			
- Bottle position verified?	<input type="checkbox" value="DB"/>	<input type="checkbox"/>			



Dataset: U:\VG7.PRO\Results\200702D1\200702D1\_2.qld

Last Altered: Friday, July 03, 2020 09:20:39 Pacific Daylight Time  
Printed: Friday, July 03, 2020 09:21:43 Pacific Daylight Time

*DB 7/3/20 CT 07/03/2020*

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 03 Jul 2020 09:08:31  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200702D1\_2, Date: 02-Jul-2020, Time: 16:09:26, ID: ST200702D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	1.93e4	0.77	NO	0.982	1.000	16.968	16.96	1.000	1.001	8.5574	85.6 <i>84-120</i>	0.120	8.56
2	2 13C-2,3,7,8-TCDF	2.30e5	0.77	NO	1.08	1.000	16.954	16.95	1.133	1.136	103.62	104 <i>71-140</i>	0.330	
3	3 13C-1,2,3,4-TCDF	2.05e5	0.78	NO	1.00	1.000	14.920	14.92	1.000	1.000	100.00	100	0.357	

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Friday, July 03, 2020 10:34:27 Pacific Daylight Time

Printed: Friday, July 03, 2020 10:34:42 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 03 Jul 2020 09:08:31

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

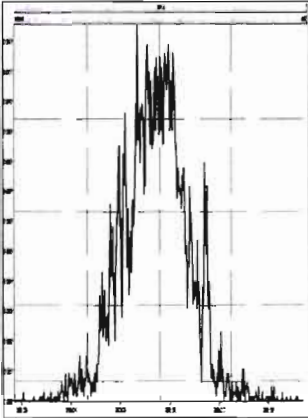
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200702D1_1	CP200702D1-1 DB-225 CPSM	02-Jul-20	15:39:16
2	200702D1_2	ST200702D1-1 1613 CS3 19L2305	02-Jul-20	16:09:26
3	200702D1_3	SOLVENT BLANK	02-Jul-20	16:41:10
4	200702D1_4	2001194-02RE1 T4-PDI2019-SC24-190529-0...	02-Jul-20	17:12:55
5	200702D1_5	2001194-03RE1 T4-PDI2019-SC25-190529-0...	02-Jul-20	17:44:36
6	200702D1_6	2001194-04RE1 T4-PDI2019-SC25-190529-0...	02-Jul-20	18:16:18
7	200702D1_7	BOF0281-DUP1RE1 Duplicate	02-Jul-20	18:48:01
8	200702D1_8	2001194-01RE2 T4-PDI2019-SC24-190529-0...	02-Jul-20	19:19:44
9	200702D1_9	2001194-05RE2 T4-PDI2019-SC26-190530-0...	02-Jul-20	19:51:26
10	200702D1_10	2001036-06RE2 PDI-053SC-B-00-02-200510 ...	02-Jul-20	20:23:09
11	200702D1_11	2000964-02RE1 PDI-148SC-A-00-01-200427 ...	02-Jul-20	20:54:51
12	200702D1_12	2000964-03RE1 PDI-148SC-A-01-02-200427 ...	02-Jul-20	21:26:33
13	200702D1_13	2000997-08RE1 PDI-061SC-B-00-02-200428 ...	02-Jul-20	21:58:14
14	200702D1_14	2001033-02RE1 PDI-087SC-B-02-05-200509 ...	02-Jul-20	22:29:55
15	200702D1_15	2001033-04RE1 PDI-089SC-B-00-02-200509 ...	02-Jul-20	23:01:37

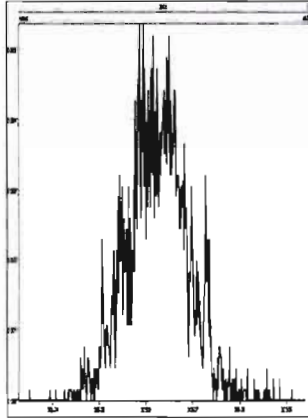
File: Experiment: tcdf\_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, July 02, 2020 15:38:17 Pacific Daylight Time

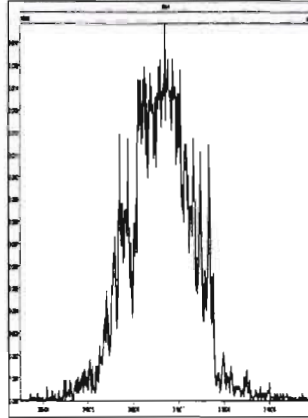
M 292.9824 R 11959



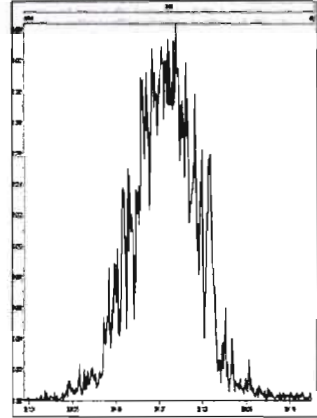
M 304.9824 R 12190



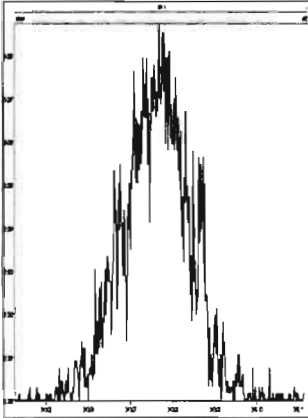
M 318.9792 R 11682



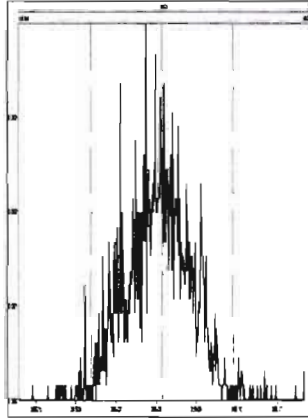
M 330.9792 R 11011



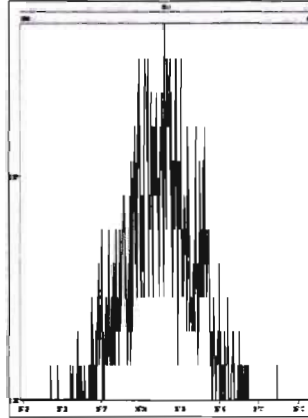
M 342.9792 R 10966



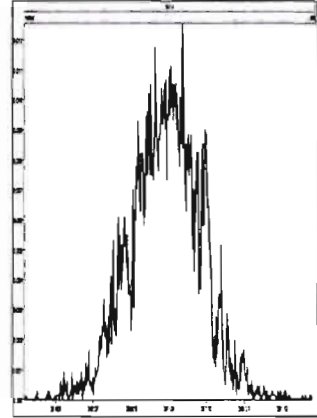
M 354.9792 R 11111

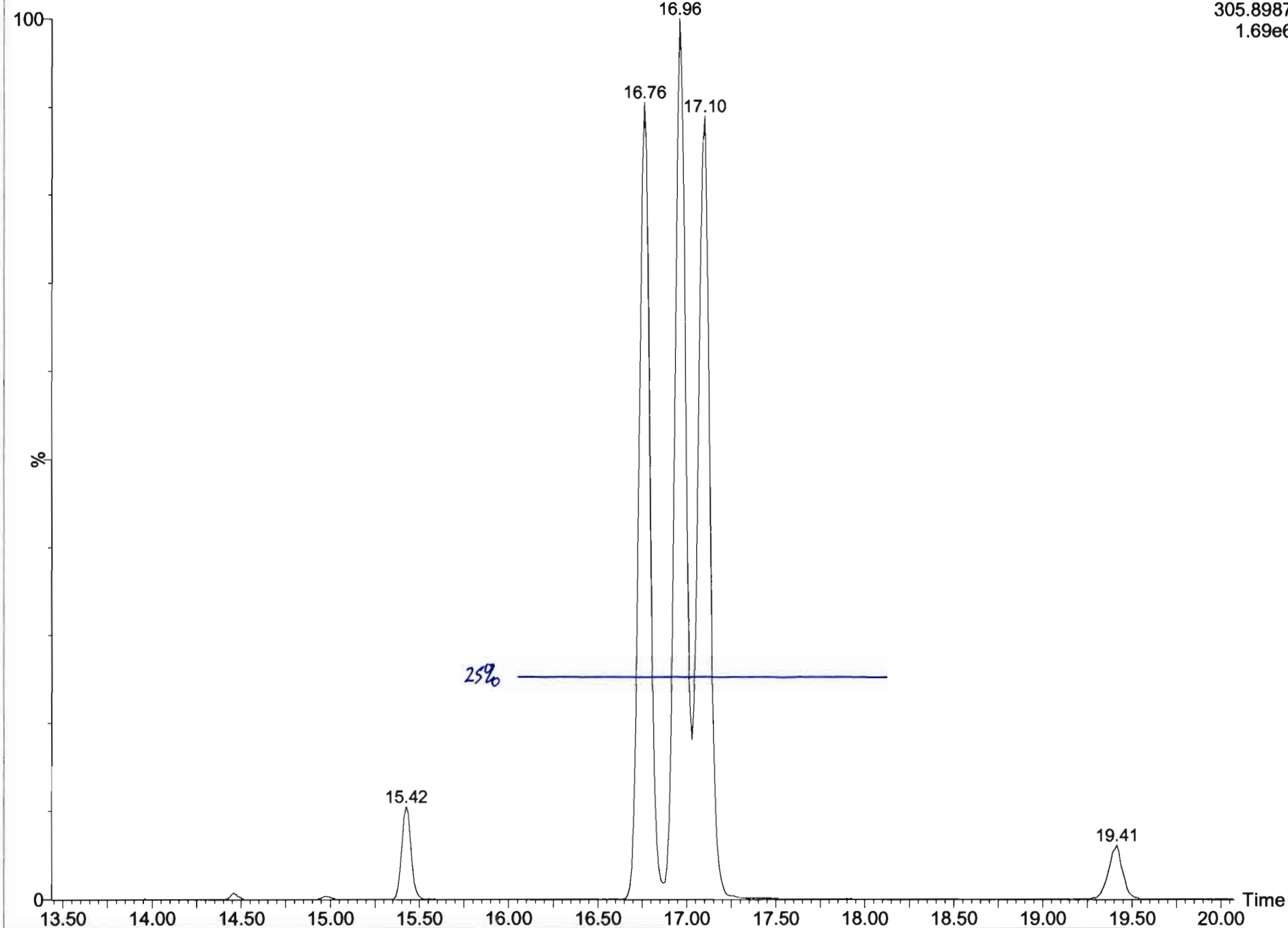


M 366.9792 R 11109



M 380.9760 R 10962





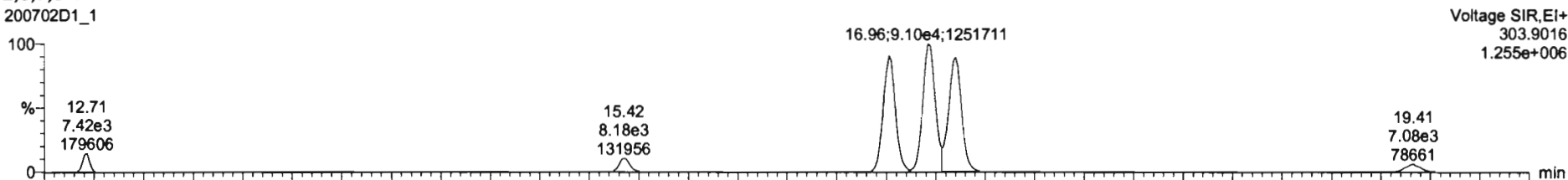
Dataset: U:\VG7.PRO\Results\200702D1\200702D1\_1.qld

Last Altered: Friday, July 03, 2020 09:19:25 Pacific Daylight Time  
Printed: Friday, July 03, 2020 09:20:33 Pacific Daylight Time

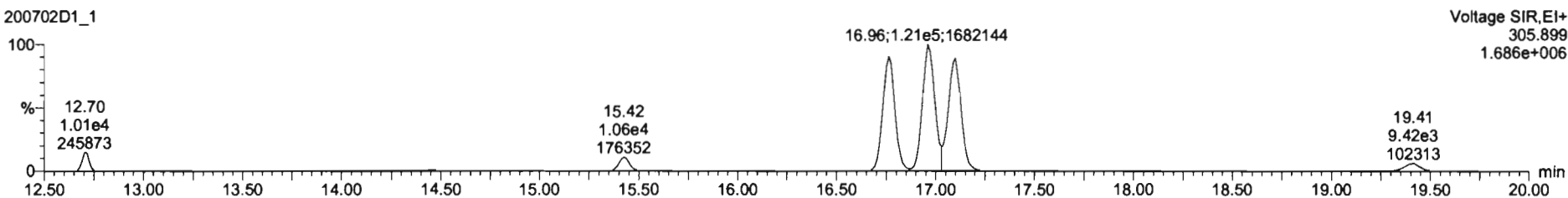
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 03 Jul 2020 09:08:31  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200702D1\_1, Date: 02-Jul-2020, Time: 15:39:16, ID: CP200702D1-1 DB-225 CPSM, Description: DB-225 CPSM

2,3,7,8-TCDF  
200702D1\_1

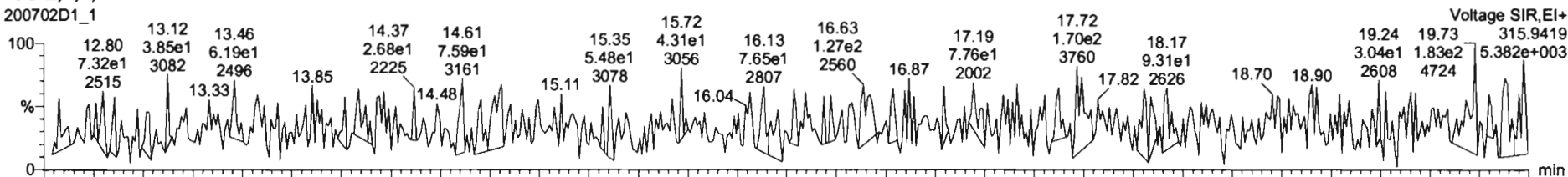


200702D1\_1

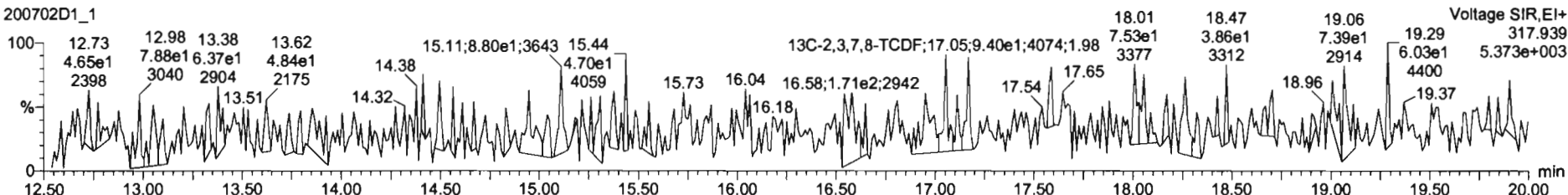


13C-2,3,7,8-TCDF

200702D1\_1



200702D1\_1

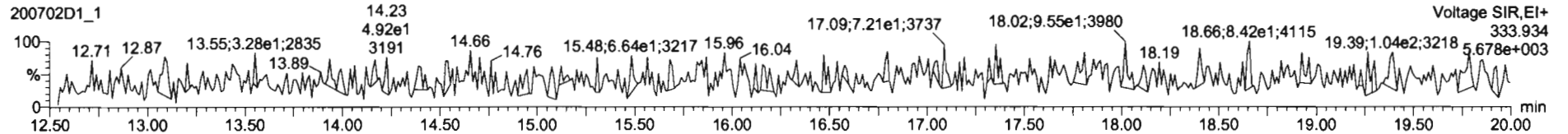
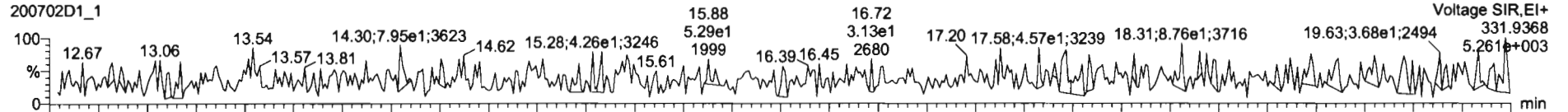


Dataset: U:\VG7.PRO\Results\200702D1\200702D1\_1.qld

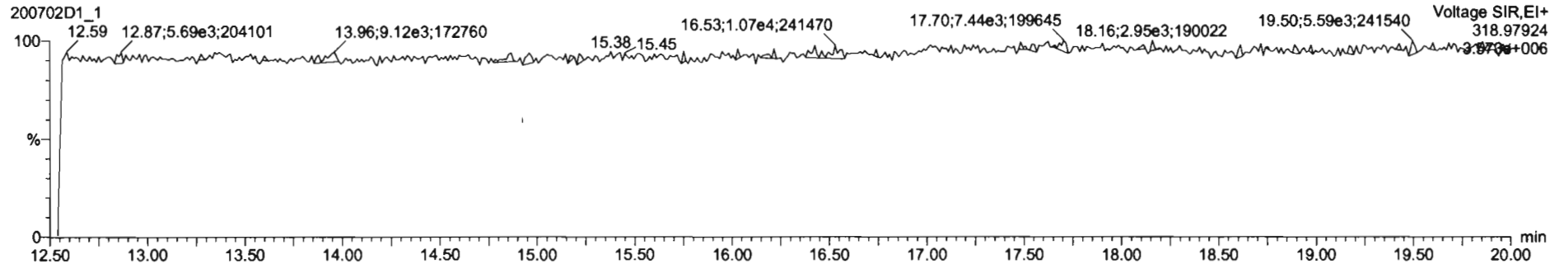
Last Altered: Friday, July 03, 2020 09:19:25 Pacific Daylight Time  
Printed: Friday, July 03, 2020 09:20:33 Pacific Daylight Time

Name: 200702D1\_1, Date: 02-Jul-2020, Time: 15:39:16, ID: CP200702D1-1 DB-225 CPSM, Description: DB-225 CPSM

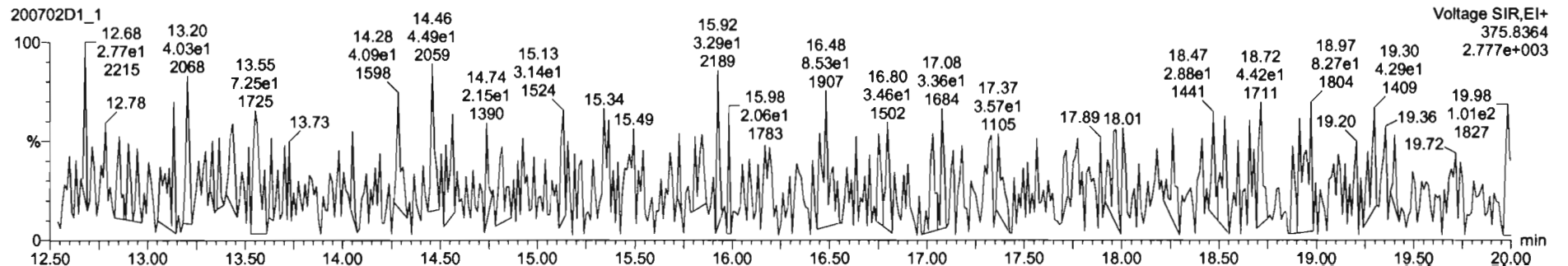
13C-1,2,3,4-TCDD



PFK1



DPE1





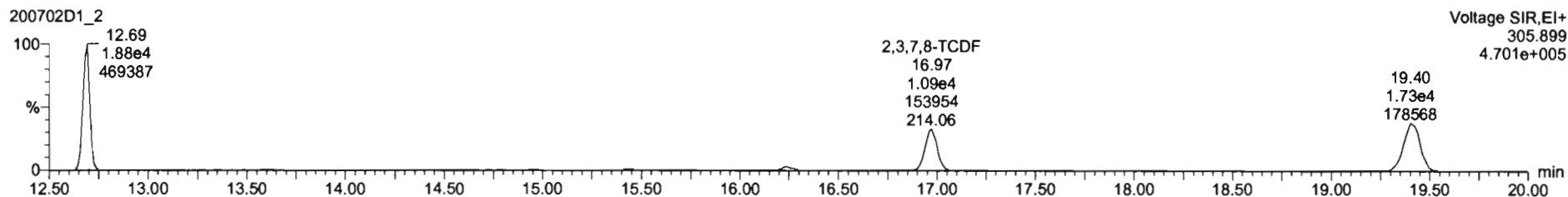
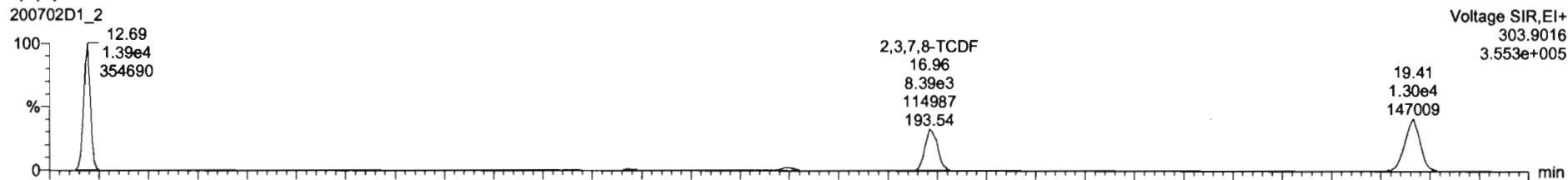
Dataset: U:\VG7.PRO\Results\200702D1\200702D1\_2.qld

Last Altered: Friday, July 03, 2020 09:20:39 Pacific Daylight Time  
Printed: Friday, July 03, 2020 09:22:00 Pacific Daylight Time

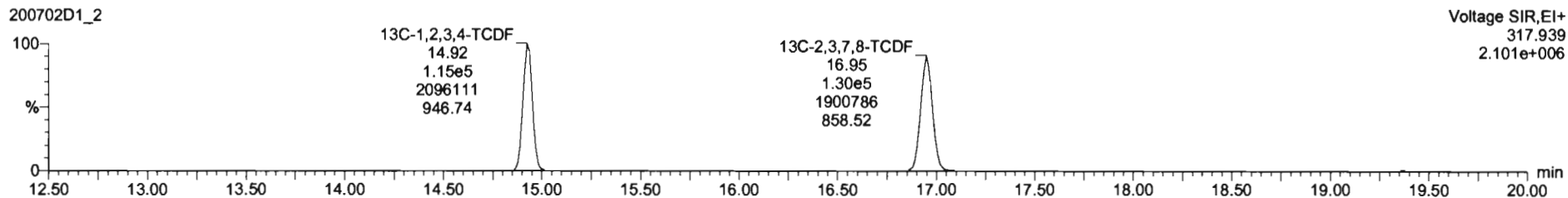
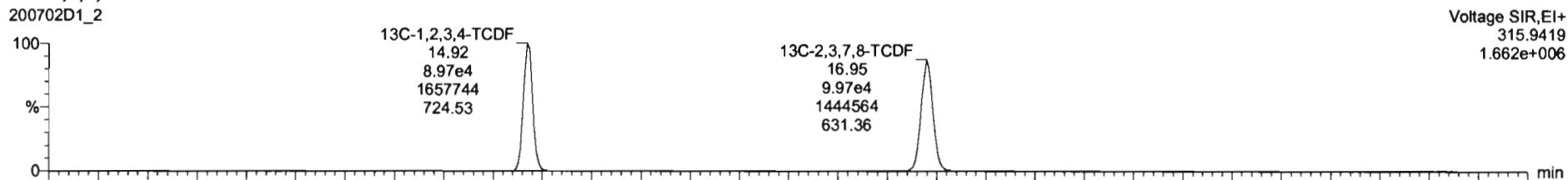
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 03 Jul 2020 09:08:31  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200702D1\_2, Date: 02-Jul-2020, Time: 16:09:26, ID: ST200702D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF



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



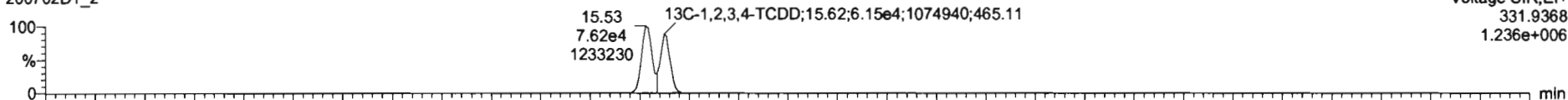
Dataset: U:\VG7.PRO\Results\200702D1\200702D1\_2.qld

Last Altered: Friday, July 03, 2020 09:20:39 Pacific Daylight Time  
Printed: Friday, July 03, 2020 09:22:00 Pacific Daylight Time

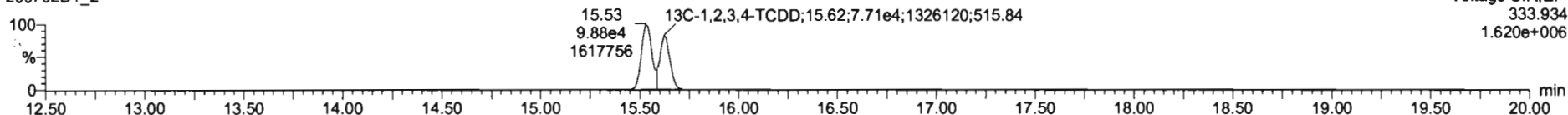
Name: 200702D1\_2, Date: 02-Jul-2020, Time: 16:09:26, ID: ST200702D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200702D1\_2

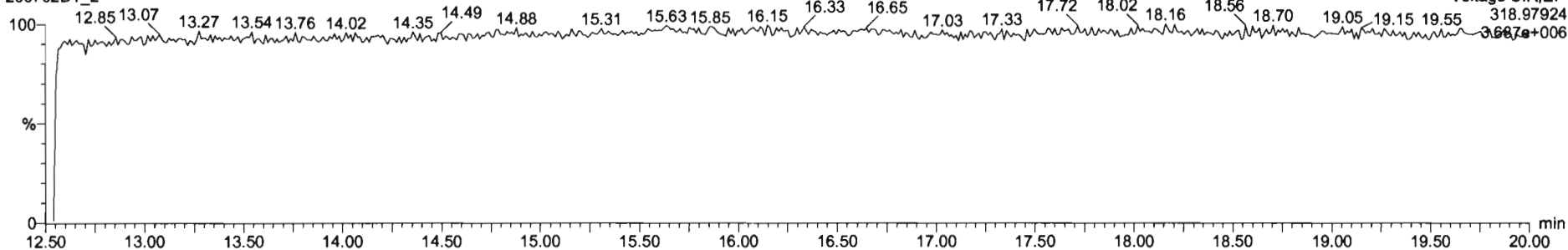


200702D1\_2



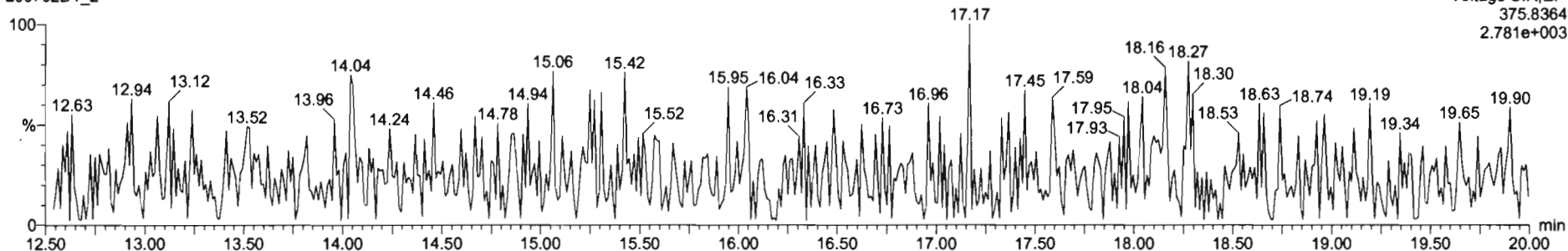
**PFK1**

200702D1\_2



**DPE1**

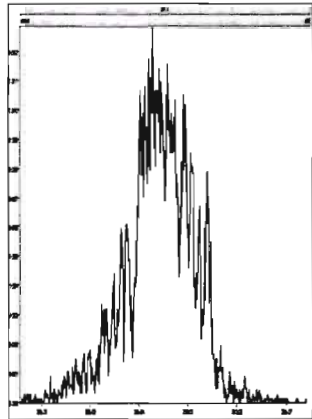
200702D1\_2



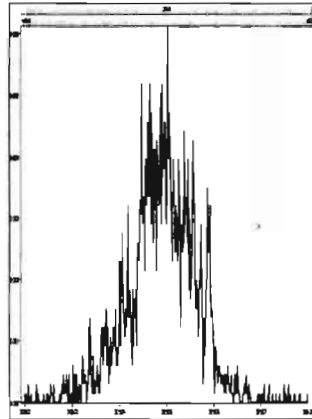
File: Experiment: tcdf\_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, July 02, 2020 23:32:40 Pacific Daylight Time

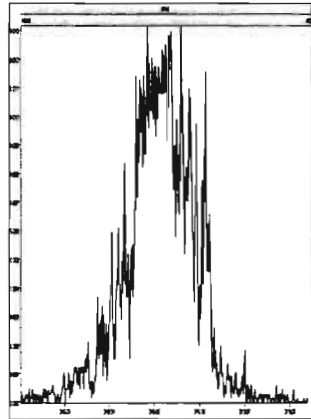
M 292.9824 R 11064



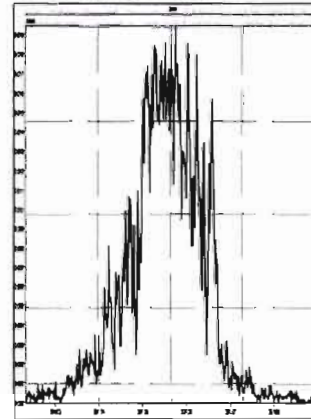
M 304.9824 R 11575



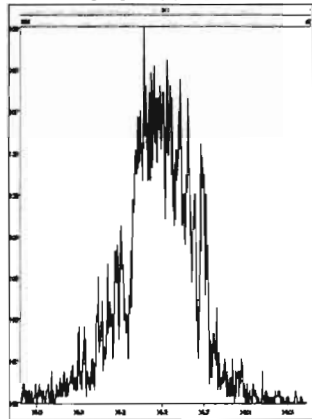
M 318.9792 R 11627



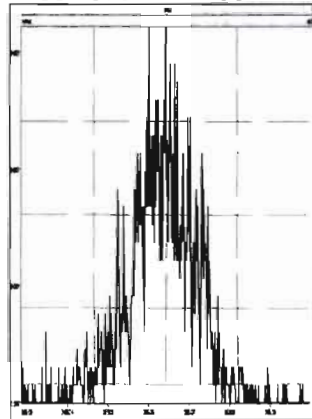
M 330.9792 R 9193



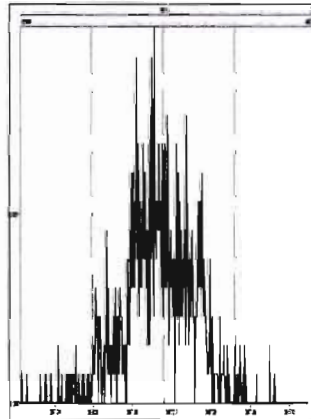
M 342.9792 R 10205



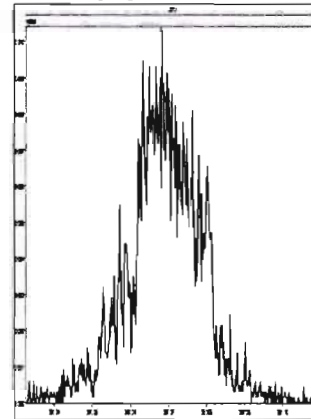
M 354.9792 R 11961



M 366.9792 R 14532



M 380.9760 R 10374



## **INITIAL CALIBRATION**

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time  
Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

*GRB 05/29/2020*

*CI 05/29/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

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

Response Factor: 0.88831  
RRF SD: 0.0677802, Relative SD: 7.63025  
Response type: Internal Std ( Ref 18 ), Area \* ( IS Conc. / IS Area )  
Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	0.250	0.68	NO	26.54	1.000	2.70e3	1.43e6	0.213	-14.8	0.757	bb
2	200528R2_2	0.500	0.78	NO	26.57	1.001	5.69e3	1.29e6	0.497	-0.6	0.883	bb
3	200528R2_3	2.00	0.80	NO	26.57	1.001	2.40e4	1.31e6	2.06	3.1	0.916	bb
4	200528R2_4	40.0	0.78	NO	26.56	1.001	5.50e5	1.50e6	41.2	3.0	0.915	bb
5	200528R2_5	300	0.78	NO	26.59	1.001	4.32e6	1.52e6	321	6.9	0.949	bb
6	200528R2_6	10.0	0.81	NO	26.59	1.001	1.06e5	1.16e6	10.2	2.4	0.910	dd

**Compound name: 1,2,3,7,8-PeCDD**

Response Factor: 0.908065  
RRF SD: 0.0455724, Relative SD: 5.01862  
Response type: Internal Std ( Ref 19 ), Area \* ( IS Conc. / IS Area )  
Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	0.66	NO	31.50	1.000	1.03e4	1.00e6	1.12	-10.0	0.817	bb
2	200528R2_2	2.50	0.64	NO	31.51	1.000	2.12e4	9.36e5	2.50	-0.1	0.908	bb
3	200528R2_3	10.0	0.63	NO	31.51	1.000	8.60e4	9.29e5	10.2	1.9	0.926	bb
4	200528R2_4	200	0.63	NO	31.51	1.000	2.06e6	1.11e6	205	2.4	0.930	bb
5	200528R2_5	1500	0.63	NO	31.51	1.000	1.69e7	1.21e6	1550	3.0	0.935	bb
6	200528R2_6	50.0	0.62	NO	31.53	1.001	3.95e5	8.48e5	51.3	2.7	0.932	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

**Compound name: 1,2,3,4,7,8-HxCDD**

Response Factor: 1.03343

RRF SD: 0.0545572, Relative SD: 5.27925

Response type: Internal Std ( Ref 20 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.27	NO	34.86	1.000	8.03e3	6.95e5	1.12	-10.6	0.924	MM
2	200528R2_2	2.50	1.27	NO	34.88	1.000	1.69e4	6.46e5	2.53	1.2	1.05	bd
3	200528R2_3	10.0	1.24	NO	34.88	1.000	6.94e4	6.61e5	10.2	1.6	1.05	bd
4	200528R2_4	200	1.23	NO	34.88	1.001	1.67e6	7.89e5	204	2.1	1.06	MM
5	200528R2_5	1500	1.23	NO	34.88	1.000	1.47e7	9.34e5	1520	1.5	1.05	bd
6	200528R2_6	50.0	1.23	NO	34.89	1.000	3.25e5	6.04e5	52.1	4.1	1.08	bd

**Compound name: 1,2,3,6,7,8-HxCDD**

Response Factor: 0.892293

RRF SD: 0.0561127, Relative SD: 6.28859

Response type: Internal Std ( Ref 21 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.23	NO	34.97	1.001	9.27e3	9.27e5	1.12	-10.3	0.800	db
2	200528R2_2	2.50	1.25	NO	34.99	1.001	1.90e4	8.61e5	2.47	-1.1	0.883	db
3	200528R2_3	10.0	1.24	NO	34.99	1.000	8.01e4	8.39e5	10.7	7.0	0.954	db
4	200528R2_4	200	1.22	NO	34.99	1.001	1.92e6	1.03e6	209	4.3	0.931	MM
5	200528R2_5	1500	1.23	NO	34.99	1.000	1.61e7	1.17e6	1550	3.5	0.923	db
6	200528R2_6	50.0	1.24	NO	35.00	1.001	3.51e5	8.15e5	48.3	-3.4	0.862	db

**Compound name: 1,2,3,7,8,9-HxCDD**

Response Factor: 0.886936

RRF SD: 0.0582559, Relative SD: 6.56822

Response type: Internal Std ( Ref 22 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.20	NO	35.25	1.000	8.14e3	8.33e5	1.10	-11.9	0.782	bb
2	200528R2_2	2.50	1.21	NO	35.27	1.001	1.62e4	7.48e5	2.44	-2.3	0.866	bb



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Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

**Compound name: 1,2,3,7,8,9-HxCDD**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	10.0	1.26	NO	35.26	1.000	7.01e4	7.53e5	10.5	4.9	0.931	bb
4	200528R2_4	200	1.20	NO	35.26	1.000	1.70e6	9.12e5	210	4.9	0.931	bb
5	200528R2_5	1500	1.22	NO	35.27	1.000	1.47e7	1.06e6	1570	4.5	0.927	bb
6	200528R2_6	50.0	1.24	NO	35.27	1.000	3.12e5	7.05e5	49.9	-0.2	0.886	bb

**Compound name: 1,2,3,4,6,7,8-HpCDD**

Response Factor: 0.863903

RRF SD: 0.0694586, Relative SD: 8.04009

Response type: Internal Std ( Ref 23 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	0.99	NO	38.78	1.000	6.10e3	6.48e5	1.09	-12.8	0.753	MM
2	200528R2_2	2.50	1.05	NO	38.81	1.001	1.21e4	6.01e5	2.33	-6.7	0.806	bb
3	200528R2_3	10.0	1.03	NO	38.80	1.000	4.99e4	5.57e5	10.4	3.7	0.896	bd
4	200528R2_4	200	1.02	NO	38.80	1.000	1.25e6	6.86e5	211	5.5	0.911	bb
5	200528R2_5	1500	1.01	NO	38.81	1.000	1.15e7	8.18e5	1620	8.0	0.933	bb
6	200528R2_6	50.0	1.03	NO	38.81	1.000	2.29e5	5.18e5	51.2	2.4	0.884	MM

**Compound name: OCDD**

Response Factor: 0.913637

RRF SD: 0.0452527, Relative SD: 4.95303

Response type: Internal Std ( Ref 24 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	2.50	0.85	NO	41.76	1.000	1.23e4	1.18e6	2.27	-9.1	0.831	bd
2	200528R2_2	5.00	0.83	NO	41.77	1.000	2.39e4	1.05e6	4.97	-0.6	0.908	bd
3	200528R2_3	20.0	0.89	NO	41.78	1.000	9.89e4	1.03e6	21.0	4.9	0.959	MM
4	200528R2_4	400	0.87	NO	41.77	1.000	2.45e6	1.35e6	397	-0.6	0.908	MM
5	200528R2_5	3000	0.84	NO	41.79	1.000	2.37e7	1.67e6	3100	3.2	0.943	MM
6	200528R2_6	100	0.88	NO	41.78	1.000	4.53e5	9.71e5	102	2.2	0.933	MM

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

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

Response Factor: 0.75098

RF SD: 0.0524401, Relative SD: 6.98288

Response type: Internal Std ( Ref 25 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	0.250	0.73	NO	25.67	1.001	3.27e3	1.95e6	0.223	-10.9	0.669	bb
2	200528R2_2	0.500	0.75	NO	25.67	1.001	6.53e3	1.78e6	0.488	-2.3	0.733	bb
3	200528R2_3	2.00	0.74	NO	25.68	1.001	2.67e4	1.80e6	1.97	-1.4	0.740	bb
4	200528R2_4	40.0	0.76	NO	25.68	1.001	6.52e5	2.04e6	42.6	6.5	0.800	bb
5	200528R2_5	300	0.75	NO	25.69	1.001	5.00e6	2.04e6	326	8.6	0.816	bb
6	200528R2_6	10.0	0.74	NO	25.69	1.001	1.19e5	1.59e6	9.96	-0.4	0.748	bb

**Compound name: 1,2,3,7,8-PeCDF**

Response Factor: 0.892531

RRF SD: 0.0599961, Relative SD: 6.72201

Response type: Internal Std ( Ref 26 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.61	NO	30.20	1.000	1.46e4	1.50e6	1.09	-12.9	0.777	bb
2	200528R2_2	2.50	1.55	NO	30.23	1.000	3.08e4	1.37e6	2.52	0.8	0.900	bd
3	200528R2_3	10.0	1.55	NO	30.23	1.000	1.31e5	1.38e6	10.7	7.0	0.955	bb
4	200528R2_4	200	1.54	NO	30.23	1.000	2.94e6	1.63e6	203	1.4	0.905	bb
5	200528R2_5	1500	1.54	NO	30.23	1.000	2.38e7	1.75e6	1520	1.3	0.904	bb
6	200528R2_6	50.0	1.57	NO	30.25	1.000	5.72e5	1.25e6	51.2	2.5	0.915	bb

**Compound name: 2,3,4,7,8-PeCDF**

Response Factor: 0.934777

RRF SD: 0.0507076, Relative SD: 5.42456

Response type: Internal Std ( Ref 27 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.56	NO	31.19	1.000	1.48e4	1.42e6	1.12	-10.8	0.834	bb
2	200528R2_2	2.50	1.55	NO	31.21	1.000	3.19e4	1.35e6	2.52	0.8	0.943	bd

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time  
 Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

**Compound name: 2,3,4,7,8-PeCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	10.0	1.55	NO	31.21	1.000	1.34e5	1.38e6	10.4	3.7	0.969	bb
4	200528R2_4	200	1.54	NO	31.21	1.000	3.00e6	1.57e6	204	2.2	0.955	bb
5	200528R2_5	1500	1.53	NO	31.21	1.000	2.45e7	1.69e6	1550	3.4	0.967	bb
6	200528R2_6	50.0	1.57	NO	31.22	1.000	5.81e5	1.24e6	50.3	0.7	0.941	bb

**Compound name: 1,2,3,4,7,8-HxCDF**

Response Factor: 0.884459  
 RRF SD: 0.0674086, Relative SD: 7.62145  
 Response type: Internal Std ( Ref 28 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.25	NO	33.99	1.001	8.98e3	9.42e5	1.08	-13.8	0.762	bd
2	200528R2_2	2.50	1.19	NO	33.99	1.000	1.81e4	8.49e5	2.41	-3.7	0.852	bd
3	200528R2_3	10.0	1.22	NO	34.01	1.001	7.91e4	8.47e5	10.6	5.6	0.934	bd
4	200528R2_4	200	1.18	NO	33.99	1.000	1.87e6	1.02e6	208	3.9	0.919	bd
5	200528R2_5	1500	1.19	NO	34.01	1.000	1.61e7	1.15e6	1590	5.8	0.936	bd
6	200528R2_6	50.0	1.21	NO	34.01	1.000	3.56e5	7.87e5	51.1	2.2	0.904	bd

**Compound name: 1,2,3,6,7,8-HxCDF**

Response Factor: 0.889174  
 RRF SD: 0.0479606, Relative SD: 5.39384  
 Response type: Internal Std ( Ref 29 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.16	NO	34.11	1.001	1.07e4	1.07e6	1.12	-10.7	0.794	MM
2	200528R2_2	2.50	1.25	NO	34.12	1.000	2.16e4	9.70e5	2.50	0.1	0.890	MM
3	200528R2_3	10.0	1.28	NO	34.12	1.000	9.20e4	1.01e6	10.3	2.7	0.914	MM
4	200528R2_4	200	1.18	NO	34.12	1.001	2.16e6	1.18e6	206	2.8	0.914	db
5	200528R2_5	1500	1.19	NO	34.12	1.000	1.80e7	1.33e6	1520	1.2	0.900	db
6	200528R2_6	50.0	1.25	NO	34.13	1.000	4.22e5	9.14e5	51.9	3.8	0.923	MM



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Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time  
 Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

**Compound name: 2,3,4,6,7,8-HxCDF**

Response Factor: 0.934102  
 RRF SD: 0.0631666, Relative SD: 6.76228  
 Response type: Internal Std ( Ref 30 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.09	NO	34.70	1.001	9.51e3	9.22e5	1.10	-11.7	0.825	bb
2	200528R2_2	2.50	1.26	NO	34.71	1.001	1.93e4	8.66e5	2.38	-4.7	0.890	bb
3	200528R2_3	10.0	1.25	NO	34.71	1.000	8.53e4	8.69e5	10.5	5.2	0.982	bd
4	200528R2_4	200	1.19	NO	34.71	1.001	2.00e6	1.04e6	207	3.3	0.965	bb
5	200528R2_5	1500	1.19	NO	34.72	1.001	1.72e7	1.18e6	1560	4.1	0.972	bb
6	200528R2_6	50.0	1.25	NO	34.72	1.000	3.88e5	8.00e5	51.9	3.9	0.971	bb

**Compound name: 1,2,3,7,8,9-HxCDF**

Response Factor: 0.870707  
 RRF SD: 0.0533625, Relative SD: 6.12863  
 Response type: Internal Std ( Ref 31 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.19	NO	35.61	1.001	7.48e3	7.73e5	1.11	-11.0	0.775	bb
2	200528R2_2	2.50	1.12	NO	35.61	1.000	1.48e4	7.04e5	2.42	-3.1	0.844	bb
3	200528R2_3	10.0	1.24	NO	35.62	1.000	6.49e4	7.27e5	10.3	2.5	0.892	bd
4	200528R2_4	200	1.20	NO	35.62	1.001	1.60e6	8.84e5	208	3.9	0.904	bb
5	200528R2_5	1500	1.20	NO	35.63	1.000	1.40e7	1.02e6	1580	5.6	0.919	bb
6	200528R2_6	50.0	1.22	NO	35.63	1.000	2.98e5	6.70e5	51.1	2.2	0.890	bb

**Compound name: 1,2,3,4,6,7,8-HpCDF**

Response Factor: 0.873391  
 RRF SD: 0.0600077, Relative SD: 6.87065  
 Response type: Internal Std ( Ref 32 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.03	NO	37.37	1.000	6.77e3	7.13e5	1.09	-13.1	0.759	bb
2	200528R2_2	2.50	0.94	NO	37.40	1.001	1.40e4	6.49e5	2.48	-0.9	0.866	bb

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Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

**Compound name: 1,2,3,4,6,7,8-HpCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	10.0	1.00	NO	37.40	1.001	5.72e4	6.48e5	10.1	1.0	0.883	bd
4	200528R2_4	200	0.99	NO	37.39	1.000	1.43e6	7.67e5	213	6.5	0.930	bb
5	200528R2_5	1500	1.00	NO	37.40	1.000	1.28e7	9.39e5	1560	3.7	0.906	bb
6	200528R2_6	50.0	0.98	NO	37.41	1.001	2.64e5	5.89e5	51.4	2.7	0.897	bb

**Compound name: 1,2,3,4,7,8,9-HpCDF**

Response Factor: 1.01285

RRF SD: 0.106215, Relative SD: 10.4867

Response type: Internal Std ( Ref 33 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	0.99	NO	39.33	1.001	5.26e3	5.09e5	1.02	-18.4	0.827	bb
2	200528R2_2	2.50	0.98	NO	39.33	1.000	1.03e4	4.36e5	2.33	-6.7	0.945	bb
3	200528R2_3	10.0	1.01	NO	39.34	1.000	4.43e4	4.19e5	10.4	4.3	1.06	MM
4	200528R2_4	200	0.98	NO	39.33	1.000	1.13e6	5.18e5	214	7.2	1.09	bb
5	200528R2_5	1500	1.00	NO	39.34	1.000	1.05e7	6.39e5	1620	8.2	1.10	bb
6	200528R2_6	50.0	0.98	NO	39.34	1.000	2.00e5	3.75e5	52.7	5.4	1.07	bb

**Compound name: OCDF**

Response Factor: 0.806476

RRF SD: 0.0306481, Relative SD: 3.80025

Response type: Internal Std ( Ref 34 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	2.50	0.87	NO	41.96	1.000	1.27e4	1.35e6	2.33	-6.6	0.753	bb
2	200528R2_2	5.00	0.84	NO	41.96	1.000	2.40e4	1.22e6	4.89	-2.2	0.789	bb
3	200528R2_3	20.0	0.86	NO	41.96	1.000	9.80e4	1.18e6	20.6	3.0	0.831	bb
4	200528R2_4	400	0.87	NO	41.96	1.000	2.54e6	1.57e6	402	0.5	0.810	bb
5	200528R2_5	3000	0.88	NO	41.98	1.000	2.39e7	1.92e6	3090	3.1	0.831	bb
6	200528R2_6	100	0.85	NO	41.97	1.000	4.44e5	1.08e6	102	2.3	0.825	bb

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Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

**Compound name: 13C-2,3,7,8-TCDD**

Response Factor: 1.15633

RRF SD: 0.0999567, Relative SD: 8.64433

Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.80	NO	26.54	1.026	1.43e6	1.11e6	111	11.2	1.29	bb
2	200528R2_2	100	0.79	NO	26.54	1.025	1.29e6	1.24e6	89.8	-10.2	1.04	bb
3	200528R2_3	100	0.79	NO	26.54	1.025	1.31e6	1.26e6	89.8	-10.2	1.04	bb
4	200528R2_4	100	0.79	NO	26.54	1.025	1.50e6	1.26e6	103	2.8	1.19	bb
5	200528R2_5	100	0.78	NO	26.56	1.025	1.52e6	1.24e6	106	5.5	1.22	bb
6	200528R2_6	100	0.79	NO	26.56	1.025	1.16e6	9.95e5	101	0.8	1.17	bb

**Compound name: 13C-1,2,3,7,8-PeCDD**

Response Factor: 0.848975

RRF SD: 0.0899186, Relative SD: 10.5914

Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.64	NO	31.48	1.216	1.00e6	1.11e6	107	6.6	0.905	bb
2	200528R2_2	100	0.63	NO	31.50	1.216	9.36e5	1.24e6	88.7	-11.3	0.753	bb
3	200528R2_3	100	0.63	NO	31.50	1.216	9.29e5	1.26e6	86.8	-13.2	0.737	bb
4	200528R2_4	100	0.64	NO	31.50	1.216	1.11e6	1.26e6	103	3.3	0.877	bb
5	200528R2_5	100	0.64	NO	31.50	1.215	1.21e6	1.24e6	114	14.3	0.970	bb
6	200528R2_6	100	0.64	NO	31.50	1.215	8.48e5	9.95e5	100	0.3	0.852	bb

**Compound name: 13C-1,2,3,4,7,8-HxCDD**

Response Factor: 0.778953

RRF SD: 0.096377, Relative SD: 12.3726

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.27	NO	34.85	1.014	6.95e5	8.40e5	106	6.2	0.827	bd
2	200528R2_2	100	1.28	NO	34.87	1.014	6.46e5	9.66e5	85.9	-14.1	0.669	bd



Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

**Compound name: 13C-1,2,3,4,7,8-HxCDD**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	100	1.27	NO	34.87	1.014	6.61e5	9.75e5	87.0	-13.0	0.678	bd
4	200528R2_4	100	1.28	NO	34.86	1.014	7.89e5	9.81e5	103	3.4	0.805	bd
5	200528R2_5	100	1.28	NO	34.87	1.014	9.34e5	1.01e6	119	18.6	0.924	bd
6	200528R2_6	100	1.27	NO	34.88	1.014	6.04e5	7.84e5	98.9	-1.1	0.770	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDD**

Response Factor: 1.01669

RRF SD: 0.116266, Relative SD: 11.4358

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.27	NO	34.95	1.017	9.27e5	8.40e5	108	8.5	1.10	db
2	200528R2_2	100	1.27	NO	34.96	1.017	8.61e5	9.66e5	87.7	-12.3	0.891	db
3	200528R2_3	100	1.26	NO	34.97	1.017	8.39e5	9.75e5	84.7	-15.3	0.861	db
4	200528R2_4	100	1.25	NO	34.96	1.017	1.03e6	9.81e5	104	3.5	1.05	db
5	200528R2_5	100	1.27	NO	34.97	1.017	1.17e6	1.01e6	113	13.4	1.15	db
6	200528R2_6	100	1.23	NO	34.97	1.017	8.15e5	7.84e5	102	2.3	1.04	db

**Compound name: 13C-1,2,3,7,8,9-HxCDD**

Response Factor: 0.902653

RRF SD: 0.11238, Relative SD: 12.45

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.23	NO	35.24	1.025	8.33e5	8.40e5	110	9.8	0.991	bb
2	200528R2_2	100	1.26	NO	35.25	1.025	7.48e5	9.66e5	85.8	-14.2	0.774	bb
3	200528R2_3	100	1.28	NO	35.25	1.025	7.53e5	9.75e5	85.6	-14.4	0.773	bd
4	200528R2_4	100	1.23	NO	35.25	1.025	9.12e5	9.81e5	103	3.1	0.930	MM
5	200528R2_5	100	1.26	NO	35.26	1.025	1.06e6	1.01e6	116	16.1	1.05	bb
6	200528R2_6	100	1.18	NO	35.26	1.025	7.05e5	7.84e5	99.6	-0.4	0.899	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time  
 Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

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

Response Factor: 0.689179  
 RRF SD: 0.0899136, Relative SD: 13.0465  
 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.06	NO	38.77	1.128	6.48e5	8.40e5	112	11.9	0.771	MM
2	200528R2_2	100	1.04	NO	38.78	1.128	6.01e5	9.66e5	90.2	-9.8	0.622	bd
3	200528R2_3	100	1.12	NO	38.79	1.128	5.57e5	9.75e5	83.0	-17.0	0.572	bd
4	200528R2_4	100	1.04	NO	38.78	1.128	6.86e5	9.81e5	102	1.6	0.700	MM
5	200528R2_5	100	1.03	NO	38.80	1.128	8.18e5	1.01e6	117	17.4	0.809	bb
6	200528R2_6	100	1.04	NO	38.80	1.128	5.18e5	7.84e5	95.9	-4.1	0.661	bd

**Compound name: 13C-OCDD**

Response Factor: 0.652099  
 RRF SD: 0.111511, Relative SD: 17.1002  
 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	200	0.89	NO	41.75	1.215	1.18e6	8.40e5	216	7.8	0.703	MM
2	200528R2_2	200	0.89	NO	41.76	1.215	1.05e6	9.66e5	167	-16.3	0.546	MM
3	200528R2_3	200	0.91	NO	41.76	1.214	1.03e6	9.75e5	162	-18.9	0.529	bd
4	200528R2_4	200	0.90	NO	41.76	1.215	1.35e6	9.81e5	211	5.7	0.689	bd
5	200528R2_5	200	0.93	NO	41.78	1.215	1.67e6	1.01e6	254	26.9	0.827	bd
6	200528R2_6	200	0.88	NO	41.77	1.215	9.71e5	7.84e5	190	-5.1	0.619	bd

**Compound name: 13C-2,3,7,8-TCDF**

Response Factor: 1.05898  
 RRF SD: 0.0854755, Relative SD: 8.07146  
 Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.76	NO	25.65	0.991	1.95e6	1.65e6	112	12.1	1.19	bb
2	200528R2_2	100	0.77	NO	25.66	0.991	1.78e6	1.83e6	92.1	-7.9	0.975	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

**Compound name: 13C-2,3,7,8-TCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	100	0.78	NO	25.66	0.991	1.80e6	1.89e6	90.1	-9.9	0.955	bb
4	200528R2_4	100	0.78	NO	25.66	0.991	2.04e6	1.91e6	101	1.0	1.07	bb
5	200528R2_5	100	0.78	NO	25.67	0.991	2.04e6	1.85e6	104	4.2	1.10	bb
6	200528R2_6	100	0.77	NO	25.68	0.991	1.59e6	1.49e6	101	0.5	1.06	bb

**Compound name: 13C-1,2,3,7,8-PeCDF**

Response Factor: 0.837982

RRF SD: 0.0870192, Relative SD: 10.3844

Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.59	NO	30.20	1.167	1.50e6	1.65e6	109	9.0	0.913	bb
2	200528R2_2	100	1.59	NO	30.22	1.167	1.37e6	1.83e6	89.3	-10.7	0.748	bb
3	200528R2_3	100	1.59	NO	30.22	1.167	1.38e6	1.89e6	86.9	-13.1	0.728	bb
4	200528R2_4	100	1.61	NO	30.22	1.167	1.63e6	1.91e6	102	1.9	0.854	bb
5	200528R2_5	100	1.63	NO	30.22	1.166	1.75e6	1.85e6	113	12.9	0.946	bb
6	200528R2_6	100	1.60	NO	30.23	1.166	1.25e6	1.49e6	100	0.0	0.838	bb

**Compound name: 13C-2,3,4,7,8-PeCDF**

Response Factor: 0.816557

RRF SD: 0.0702322, Relative SD: 8.60101

Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.60	NO	31.18	1.204	1.42e6	1.65e6	106	5.9	0.865	db
2	200528R2_2	100	1.57	NO	31.19	1.204	1.35e6	1.83e6	90.7	-9.3	0.741	db
3	200528R2_3	100	1.61	NO	31.19	1.204	1.38e6	1.89e6	89.4	-10.6	0.730	db
4	200528R2_4	100	1.61	NO	31.19	1.204	1.57e6	1.91e6	101	1.0	0.825	db
5	200528R2_5	100	1.60	NO	31.19	1.204	1.69e6	1.85e6	112	11.5	0.911	bb
6	200528R2_6	100	1.59	NO	31.21	1.204	1.24e6	1.49e6	101	1.4	0.828	db



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Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

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

Response Factor: 1.00752

RRF SD: 0.115021, Relative SD: 11.4162

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.50	NO	33.97	0.988	9.42e5	8.40e5	111	11.3	1.12	bd
2	200528R2_2	100	0.50	NO	33.98	0.988	8.49e5	9.66e5	87.2	-12.8	0.878	bd
3	200528R2_3	100	0.50	NO	33.98	0.988	8.47e5	9.75e5	86.2	-13.8	0.869	bd
4	200528R2_4	100	0.50	NO	33.98	0.988	1.02e6	9.81e5	103	3.0	1.04	bd
5	200528R2_5	100	0.50	NO	33.99	0.988	1.15e6	1.01e6	113	12.7	1.14	bd
6	200528R2_6	100	0.50	NO	33.99	0.988	7.87e5	7.84e5	99.6	-0.4	1.00	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDF**

Response Factor: 1.16702

RRF SD: 0.127304, Relative SD: 10.9085

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.50	NO	34.09	0.992	1.07e6	8.40e5	110	9.5	1.28	db
2	200528R2_2	100	0.51	NO	34.11	0.992	9.70e5	9.66e5	86.1	-13.9	1.00	db
3	200528R2_3	100	0.51	NO	34.11	0.992	1.01e6	9.75e5	88.5	-11.5	1.03	db
4	200528R2_4	100	0.51	NO	34.10	0.992	1.18e6	9.81e5	103	3.1	1.20	db
5	200528R2_5	100	0.51	NO	34.11	0.992	1.33e6	1.01e6	113	13.0	1.32	db
6	200528R2_6	100	0.50	NO	34.12	0.992	9.14e5	7.84e5	99.8	-0.2	1.17	db

**Compound name: 13C-2,3,4,6,7,8-HxCDF**

Response Factor: 1.02186

RRF SD: 0.110658, Relative SD: 10.829

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.51	NO	34.68	1.009	9.22e5	8.40e5	107	7.4	1.10	bb
2	200528R2_2	100	0.50	NO	34.69	1.009	8.66e5	9.66e5	87.7	-12.3	0.896	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

**Compound name: 13C-2,3,4,6,7,8-HxCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	100	0.51	NO	34.70	1.009	8.69e5	9.75e5	87.2	-12.8	0.891	bb
4	200528R2_4	100	0.51	NO	34.69	1.009	1.04e6	9.81e5	104	3.6	1.06	bb
5	200528R2_5	100	0.50	NO	34.70	1.009	1.18e6	1.01e6	114	14.3	1.17	bb
6	200528R2_6	100	0.51	NO	34.71	1.009	8.00e5	7.84e5	99.8	-0.2	1.02	bb

**Compound name: 13C-1,2,3,7,8,9-HxCDF**

Response Factor: 0.859541

RRF SD: 0.107178, Relative SD: 12.4692

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.51	NO	35.59	1.036	7.73e5	8.40e5	107	7.0	0.919	MM
2	200528R2_2	100	0.50	NO	35.61	1.036	7.04e5	9.66e5	84.8	-15.2	0.729	MM
3	200528R2_3	100	0.50	NO	35.61	1.036	7.27e5	9.75e5	86.8	-13.2	0.746	MM
4	200528R2_4	100	0.49	NO	35.60	1.036	8.84e5	9.81e5	105	4.9	0.902	bb
5	200528R2_5	100	0.51	NO	35.62	1.036	1.02e6	1.01e6	117	17.3	1.01	bb
6	200528R2_6	100	0.51	NO	35.63	1.036	6.70e5	7.84e5	99.3	-0.7	0.854	bd

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

Response Factor: 0.774499

RRF SD: 0.102271, Relative SD: 13.2048

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.44	NO	37.37	1.087	7.13e5	8.40e5	110	9.6	0.849	bd
2	200528R2_2	100	0.42	NO	37.38	1.087	6.49e5	9.66e5	86.7	-13.3	0.672	bb
3	200528R2_3	100	0.44	NO	37.38	1.087	6.48e5	9.75e5	85.9	-14.1	0.665	bd
4	200528R2_4	100	0.44	NO	37.38	1.087	7.67e5	9.81e5	101	0.9	0.782	bb
5	200528R2_5	100	0.44	NO	37.39	1.087	9.39e5	1.01e6	120	19.9	0.928	bd
6	200528R2_6	100	0.43	NO	37.39	1.087	5.89e5	7.84e5	97.0	-3.0	0.751	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time  
 Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

**Compound name: 13C-1,2,3,4,7,8,9-HpCDF**

Response Factor: 0.520991

RRF SD: 0.083066, Relative SD: 15.9439

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.43	NO	39.31	1.144	5.09e5	8.40e5	116	16.3	0.606	MM
2	200528R2_2	100	0.42	NO	39.32	1.144	4.36e5	9.66e5	86.7	-13.3	0.452	bb
3	200528R2_3	100	0.42	NO	39.33	1.144	4.19e5	9.75e5	82.5	-17.5	0.430	MM
4	200528R2_4	100	0.42	NO	39.32	1.144	5.18e5	9.81e5	101	1.4	0.529	MM
5	200528R2_5	100	0.44	NO	39.33	1.144	6.39e5	1.01e6	121	21.3	0.632	bb
6	200528R2_6	100	0.43	NO	39.34	1.144	3.75e5	7.84e5	91.8	-8.2	0.478	bd

**Compound name: 13C-OCDF**

Response Factor: 0.745653

RRF SD: 0.129429, Relative SD: 17.3579

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	200	0.87	NO	41.94	1.220	1.35e6	8.40e5	215	7.6	0.803	bb
2	200528R2_2	200	0.83	NO	41.95	1.220	1.22e6	9.66e5	169	-15.4	0.631	bb
3	200528R2_3	200	0.90	NO	41.96	1.220	1.18e6	9.75e5	162	-18.8	0.605	bd
4	200528R2_4	200	0.88	NO	41.95	1.220	1.57e6	9.81e5	215	7.3	0.800	MM
5	200528R2_5	200	0.88	NO	41.97	1.220	1.92e6	1.01e6	254	27.2	0.949	bb
6	200528R2_6	200	0.90	NO	41.96	1.220	1.08e6	7.84e5	184	-7.9	0.687	MM

**Compound name: 37Cl-2,3,7,8-TCDD**

Response Factor: 1.03685

RRF SD: 0.126311, Relative SD: 12.1822

Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	0.250			26.57	1.027	2.71e3	1.11e6	0.235	-5.9	0.976	bb
2	200528R2_2	0.500			26.56	1.025	5.67e3	1.24e6	0.440	-11.9	0.913	bb



Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

**Compound name: 37Cl-2,3,7,8-TCDD**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	2.00			26.57	1.026	2.30e4	1.26e6	1.76	-12.0	0.912	bd
4	200528R2_4	40.0			26.56	1.025	5.78e5	1.26e6	44.1	10.2	1.14	bb
5	200528R2_5	200			26.57	1.025	3.03e6	1.24e6	235	17.7	1.22	bb
6	200528R2_6	10.0			26.59	1.026	1.05e5	9.95e5	10.2	2.1	1.06	bb

**Compound name: 13C-1,2,3,4-TCDD**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.80	NO	25.89	1.000	1.11e6	1.11e6	100	0.0	1.00	bb
2	200528R2_2	100	0.81	NO	25.90	1.000	1.24e6	1.24e6	100	0.0	1.00	bb
3	200528R2_3	100	0.80	NO	25.90	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
4	200528R2_4	100	0.80	NO	25.90	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
5	200528R2_5	100	0.80	NO	25.92	1.000	1.24e6	1.24e6	100	0.0	1.00	bb
6	200528R2_6	100	0.80	NO	25.92	1.000	9.95e5	9.95e5	100	0.0	1.00	bb

**Compound name: 13C-1,2,3,4-TCDF**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.78	NO	24.22	1.000	1.65e6	1.65e6	100	0.0	1.00	bb
2	200528R2_2	100	0.78	NO	24.22	1.000	1.83e6	1.83e6	100	0.0	1.00	bb
3	200528R2_3	100	0.78	NO	24.22	1.000	1.89e6	1.89e6	100	0.0	1.00	bb
4	200528R2_4	100	0.79	NO	24.22	1.000	1.91e6	1.91e6	100	0.0	1.00	bb
5	200528R2_5	100	0.79	NO	24.24	1.000	1.85e6	1.85e6	100	0.0	1.00	bb
6	200528R2_6	100	0.77	NO	24.24	1.000	1.49e6	1.49e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

**Compound name: 13C-1,2,3,4,6,9-HxCDF**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.50	NO	34.37	1.000	8.40e5	8.40e5	100	0.0	1.00	bb
2	200528R2_2	100	0.51	NO	34.38	1.000	9.66e5	9.66e5	100	0.0	1.00	bb
3	200528R2_3	100	0.51	NO	34.39	1.000	9.75e5	9.75e5	100	0.0	1.00	bb
4	200528R2_4	100	0.51	NO	34.38	1.000	9.81e5	9.81e5	100	0.0	1.00	bb
5	200528R2_5	100	0.51	NO	34.39	1.000	1.01e6	1.01e6	100	0.0	1.00	bb
6	200528R2_6	100	0.50	NO	34.39	1.000	7.84e5	7.84e5	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CPSM.qld

Last Altered: Thursday, May 28, 2020 16:40:33 Pacific Daylight Time

Printed: Thursday, May 28, 2020 16:57:10 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

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

Name: 200528R2\_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2\_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.59
2	2 1,2,8,9-TCDD (Last)	27.53
3	3 1,2,4,7,9-PeCDD (First)	29.32
4	4 1,2,3,8,9-PeCDD (Last)	31.89
5	5 1,2,4,6,7,9-HxCDD (First)	33.39
6	6 1,2,3,7,8,9-HxCDD (Last)	35.27
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.81
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.81
9	9 1,3,6,8-TCDF (First)	20.44
10	10 1,2,8,9-TCDF (Last)	27.68
11	11 1,3,4,6,8-PeCDF (First)	27.64
12	12 1,2,3,8,9-PeCDF (Last)	32.14
13	13 1,2,3,4,6,8-HxCDF (First)	32.83
14	14 1,2,3,7,8,9-HxCDF (Last)	35.63
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.41
16	16 1,2,3,4,7,8,9-HpCDF (Last)	39.34

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CPSM.qld

Last Altered: Thursday, May 28, 2020 16:40:33 Pacific Daylight Time

Printed: Thursday, May 28, 2020 16:57:10 Pacific Daylight Time

GRB 05/29/2020

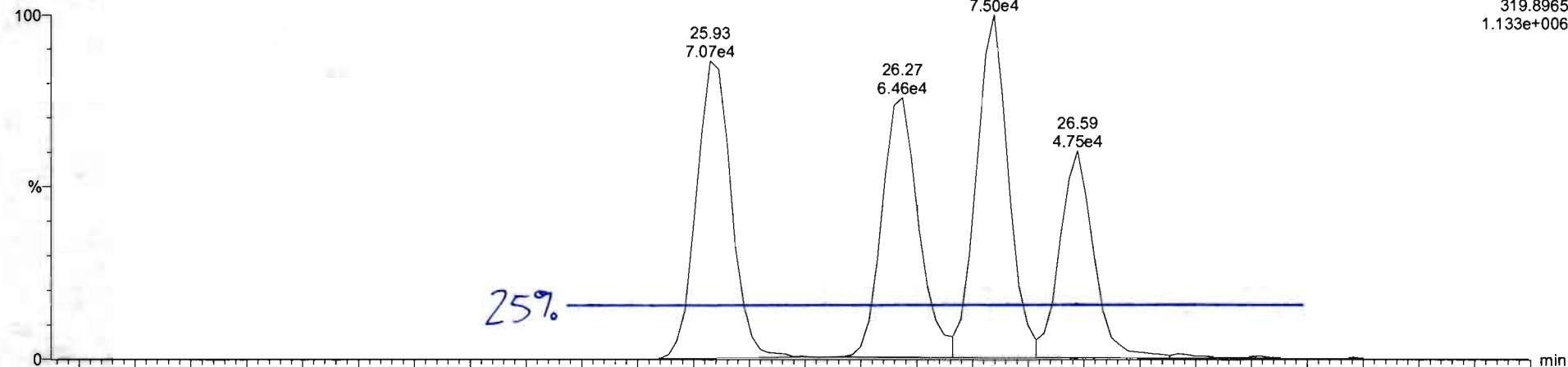
Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

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

Name: 200528R2\_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2\_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

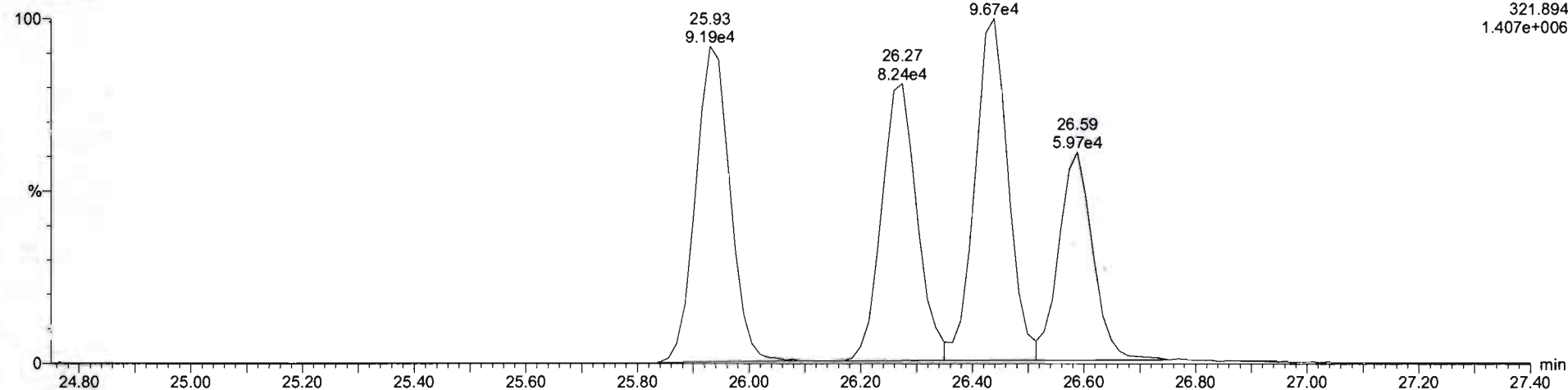
1,3,6,8-TCDD (First)

200528R2\_6



F1:Voltage SIR,EI+  
319.8965  
1.133e+006

200528R2\_6



F1:Voltage SIR,EI+  
321.894  
1.407e+006

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Friday, May 29, 2020 8:08:41 AM Pacific Daylight Time

Printed: Friday, May 29, 2020 8:08:46 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

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

	Name	ID	Acq.Date	Acq.Time
1	200528R2_1	ST200528R2_1 1613 CS0 19L2302	28-May-20	11:53:52
2	200528R2_2	ST200528R2_2 1613 CS1 19L2303	28-May-20	12:41:31
3	200528R2_3	ST200528R2_3 1613 CS2 19L2304	28-May-20	13:28:43
4	200528R2_4	ST200528R2_4 1613 CS4 19L2306	28-May-20	14:15:50
5	200528R2_5	ST200528R2_5 1613 CS5 19L2307	28-May-20	15:02:56
6	200528R2_6	ST200528R2_6 1613 CS3 19L2305	28-May-20	15:50:32
7	200528R2_7	SOLVENT BLANK	28-May-20	16:37:46
8	200528R2_8	SS200528R2_1 1613 SSS 19L2308	28-May-20	17:24:01
9	200528R2_9	B0E0131-BS1 OPR 1	28-May-20	18:10:13
10	200528R2_10	B0E0165-BS1 OPR 1	28-May-20	18:56:26
11	200528R2_11	B0E0127-BS1 OPR 1	28-May-20	19:42:36
12	200528R2_12	B0E0180-BS1 OPR 10	28-May-20	20:28:48
13	200528R2_13	SOLVENT BLANK	28-May-20	21:15:00
14	200528R2_14	B0E0180-BLK1 Method Blank 10	28-May-20	22:01:12
15	200528R2_15	B0E0131-BLK1 Method Blank 1	28-May-20	22:47:24
16	200528R2_16	B0E0165-BLK1 Method Blank 1	28-May-20	23:33:37
17	200528R2_17	B0E0127-BLK1 Method Blank 1	29-May-20	00:19:48
18	200528R2_18	2001052-01 ZID-001 1.00002	29-May-20	01:06:00
19	200528R2_19	2001031-01 Forebay Composite (24hr) 0.95078	29-May-20	01:52:12
20	200528R2_20	2001092-01 OF-031A BiWeekly Composite D/...	29-May-20	02:38:24



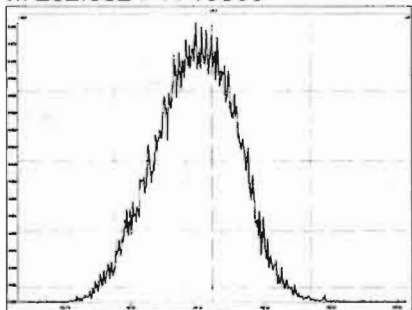
Experiment Calibration Report

MassLynx 4.1 SCN815

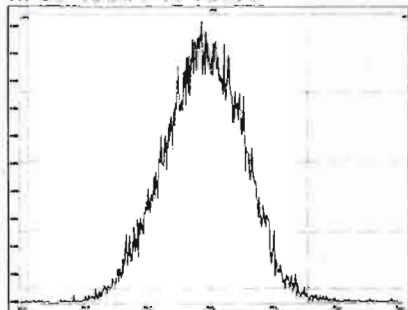
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Printed: Thursday, May 28, 2020 11:48:59 Pacific Daylight Time

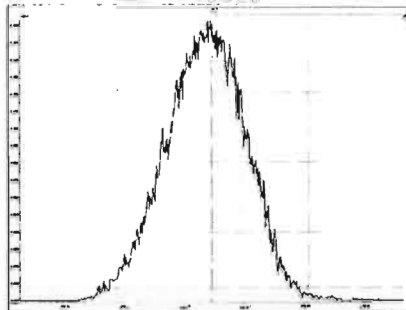
M 292.9824 R 10503



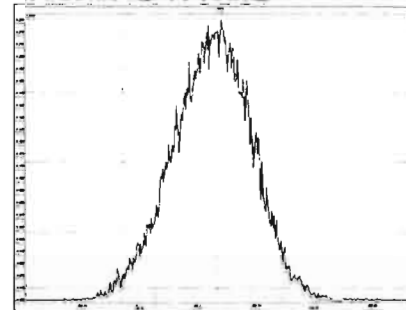
M 304.9824 R 10376



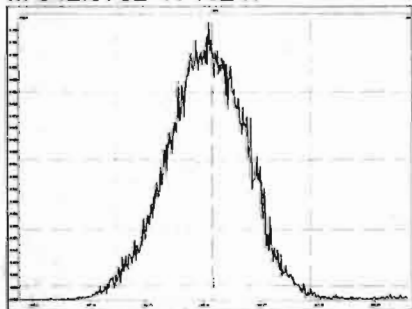
M 318.9792 R 10589



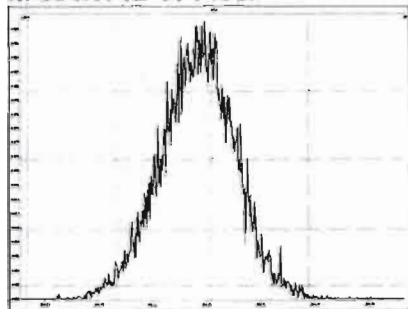
M 330.9792 R 10552



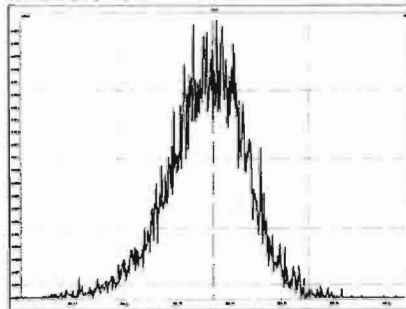
M 342.9792 R 10247



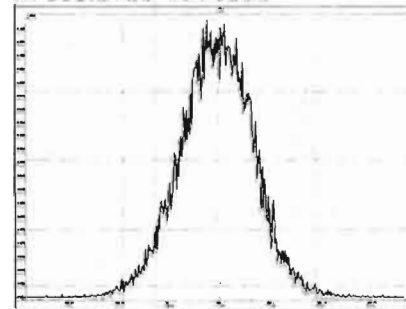
M 354.9792 R 10330



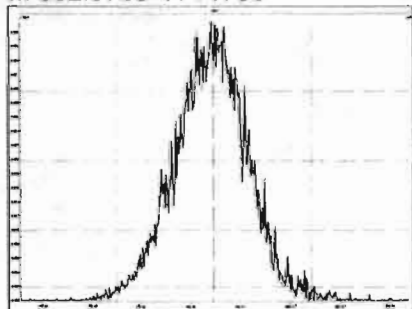
M 366.9792 R 11417



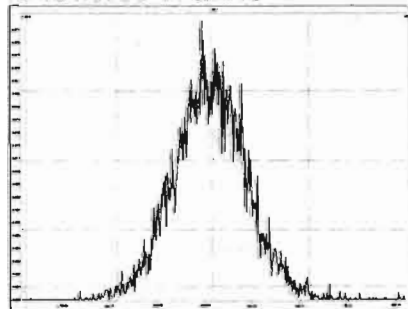
M 380.9760 R 11062



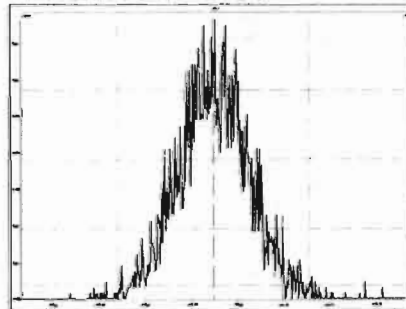
M 392.9760 R 11790



M 404.9760 R 12316



M 416.9760 R 12754





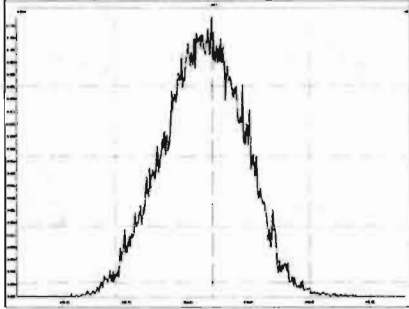
Experiment Calibration Report

MassLynx 4.1 SCN815

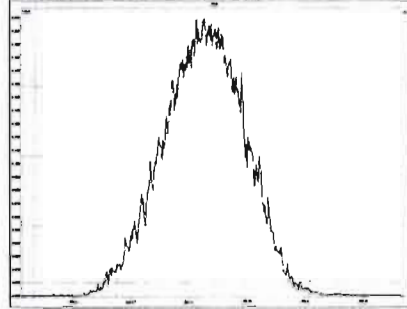
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, May 28, 2020 11:49:33 Pacific Daylight Time

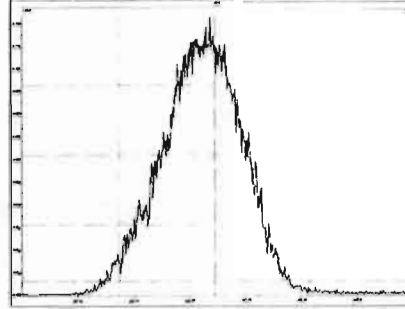
M 318.9792 R 10247



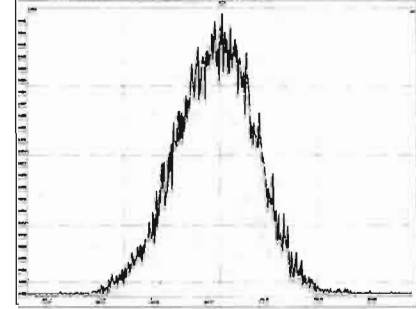
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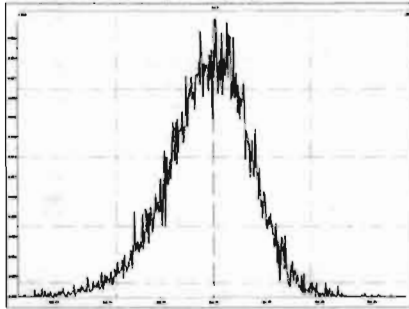
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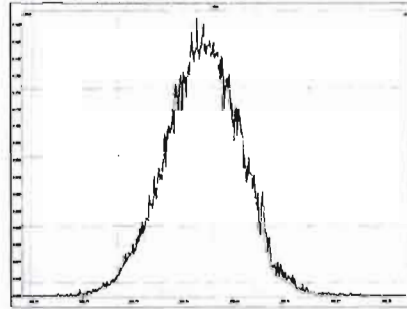
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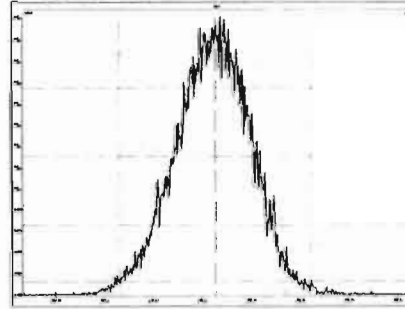
M 366.9792 R 10963



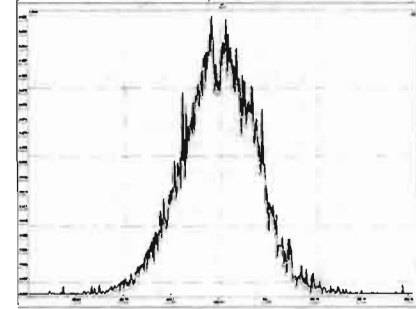
M 380.9760 R 10594



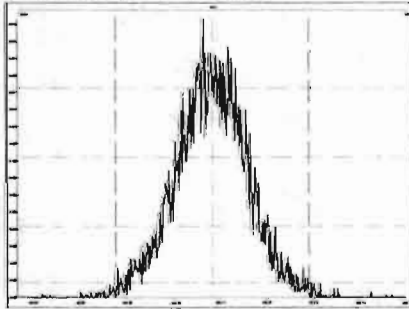
M 392.9760 R 10821



M 404.9760 R 11845



M 416.9760 R 12018



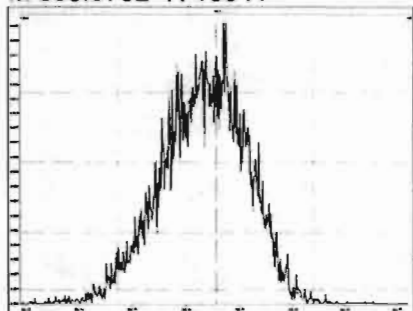
Experiment Calibration Report

MassLynx 4.1 SCN815

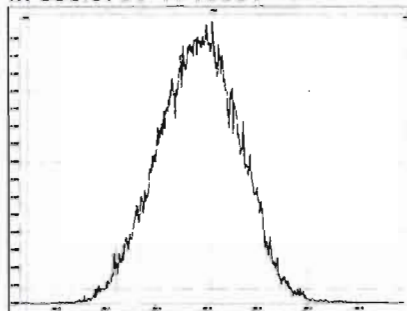
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Printed: Thursday, May 28, 2020 11:50:12 Pacific Daylight Time

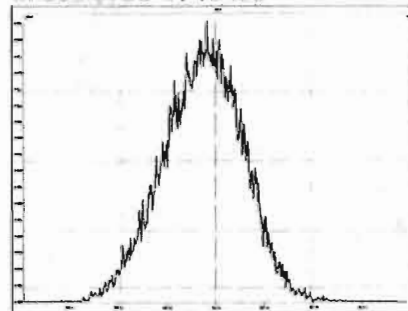
M 366.9792 R 10641



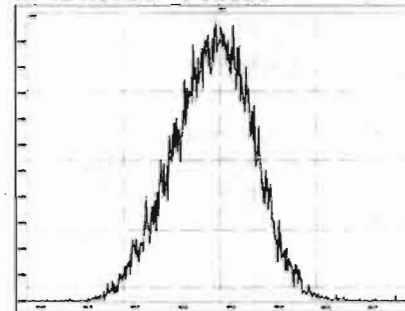
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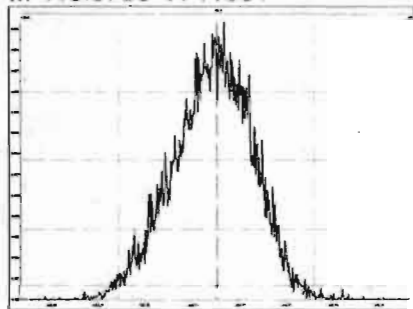
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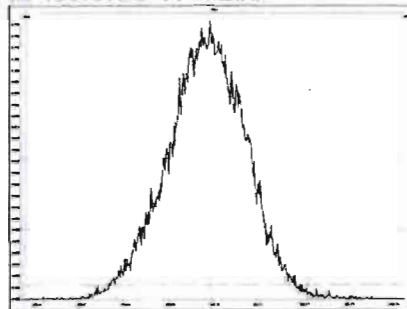
M 404.9760 R 10505



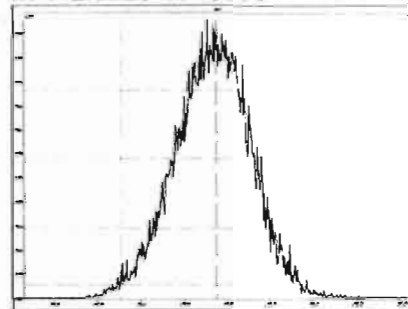
M 416.9760 R 11061



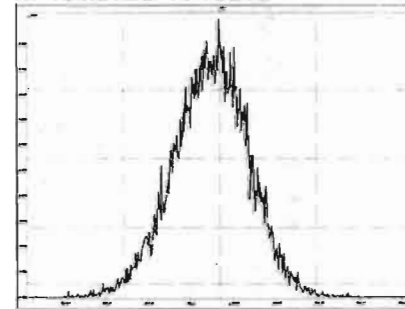
M 430.9728 R 10290



M 442.9728 R 10593



M 454.9728 R 10919



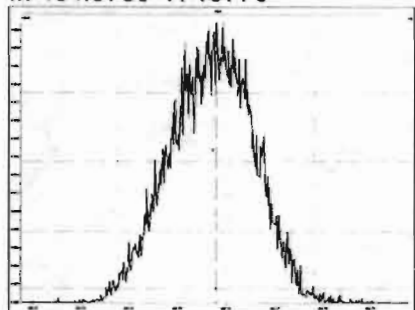
Experiment Calibration Report

MassLynx 4.1 SCN815

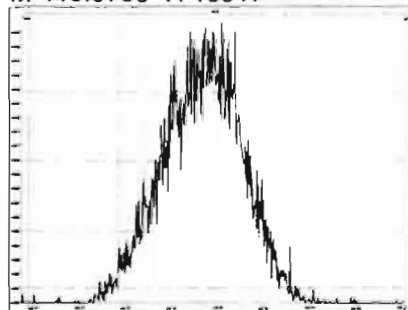
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Printed: Thursday, May 28, 2020 11:51:03 Pacific Daylight Time

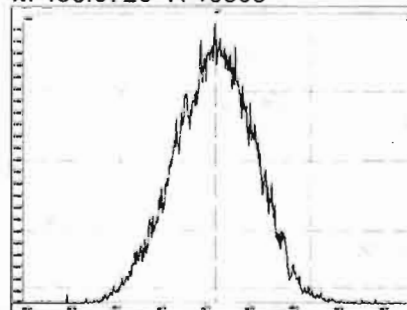
M 404.9760 R 10778



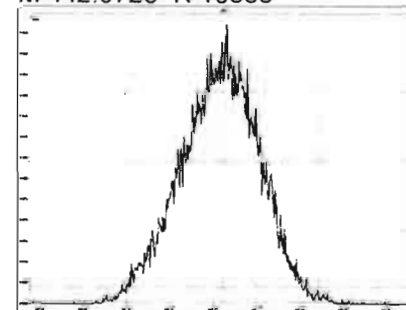
M 416.9760 R 10917



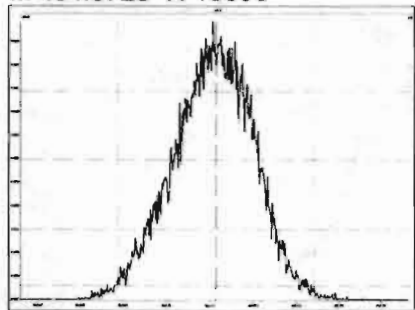
M 430.9728 R 10503



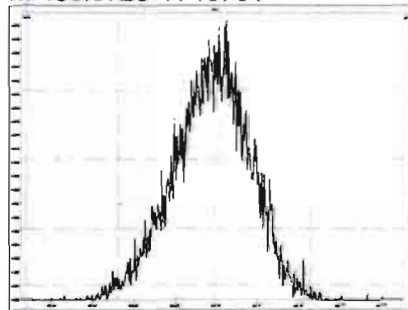
M 442.9728 R 10636



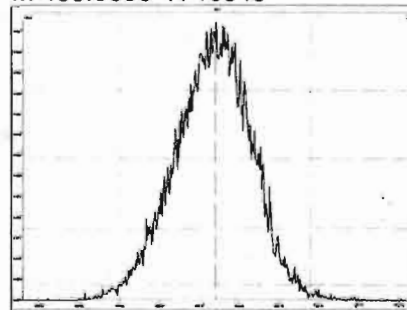
M 454.9728 R 10638



M 466.9728 R 10731



M 480.9696 R 10545



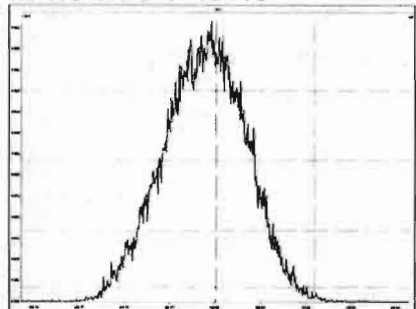
Experiment Calibration Report

MassLynx 4.1 SCN815

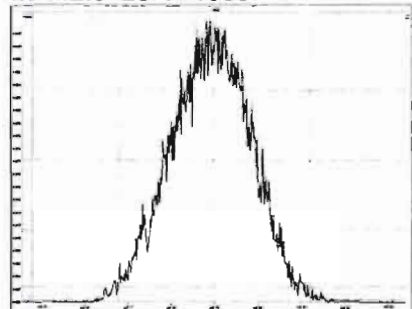
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Printed: Thursday, May 28, 2020 11:51:45 Pacific Daylight Time

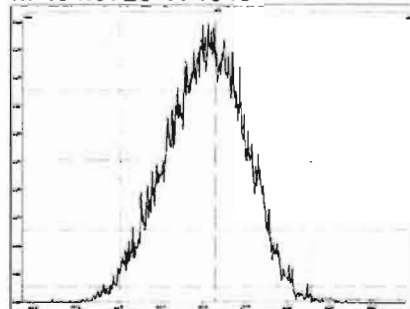
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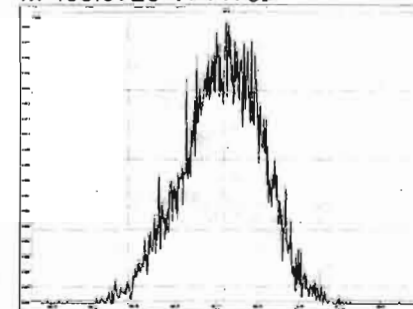
M 442.9728 R 10637



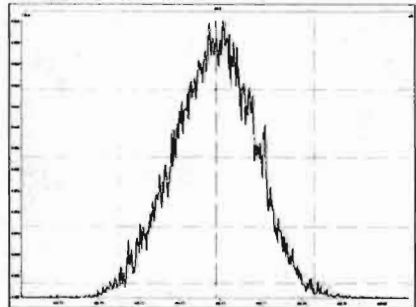
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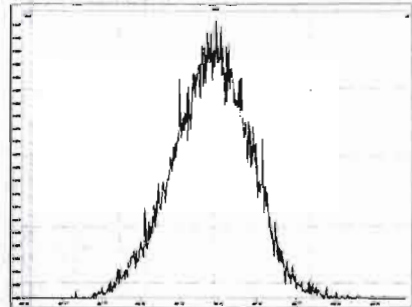
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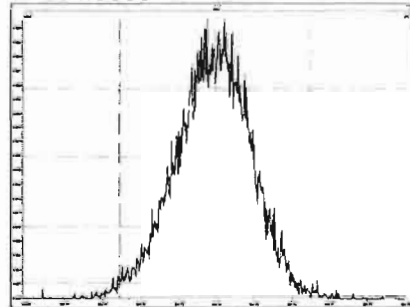
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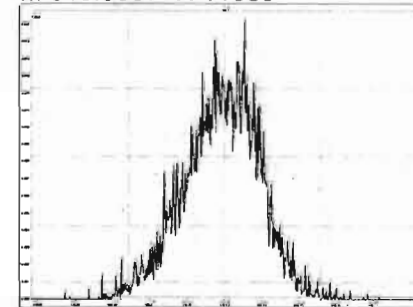
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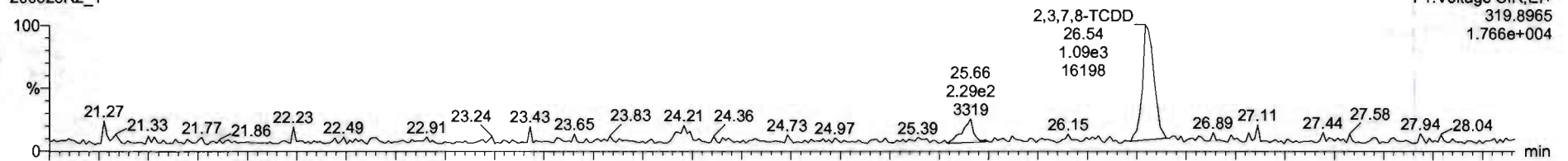
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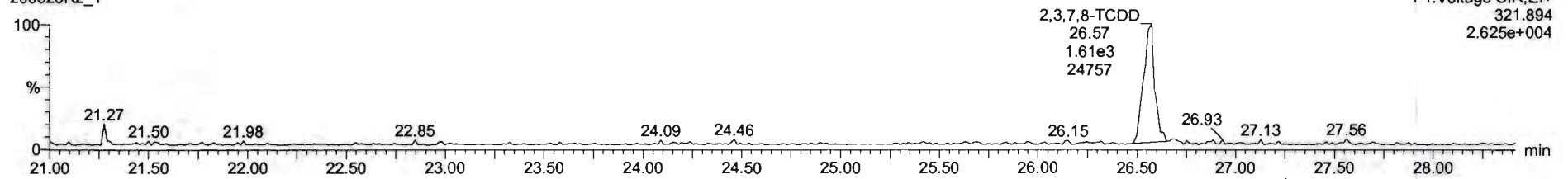
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2,3,7,8-TCDD

200528R2\_1

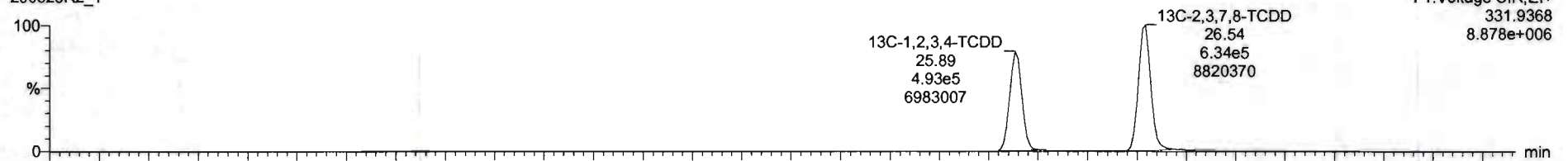


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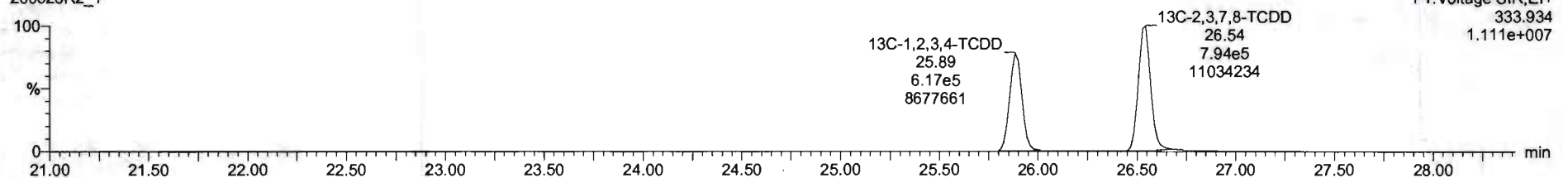


13C-2,3,7,8-TCDD

200528R2\_1



200528R2\_1



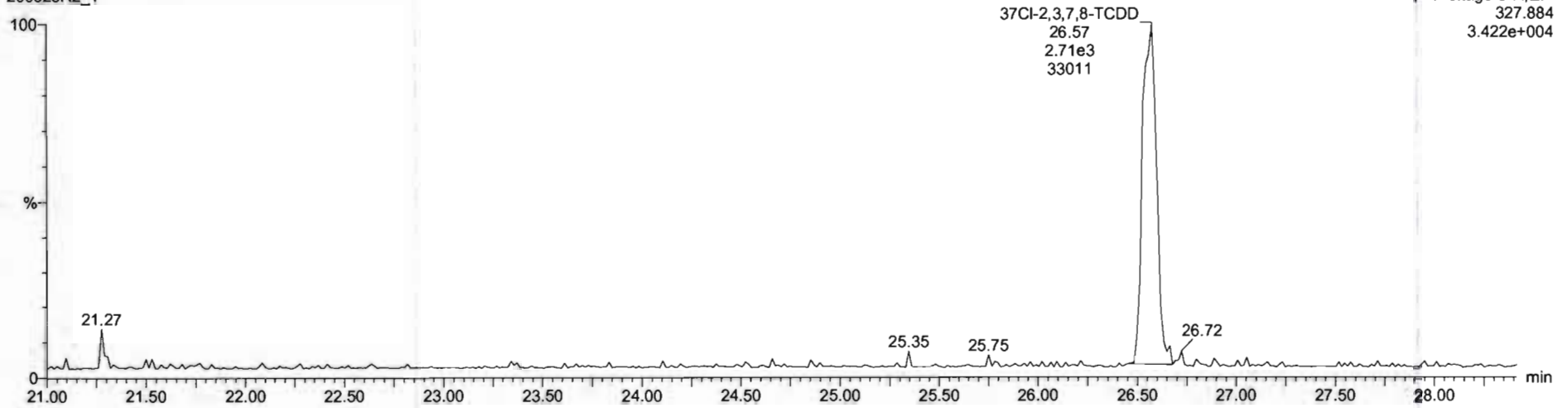


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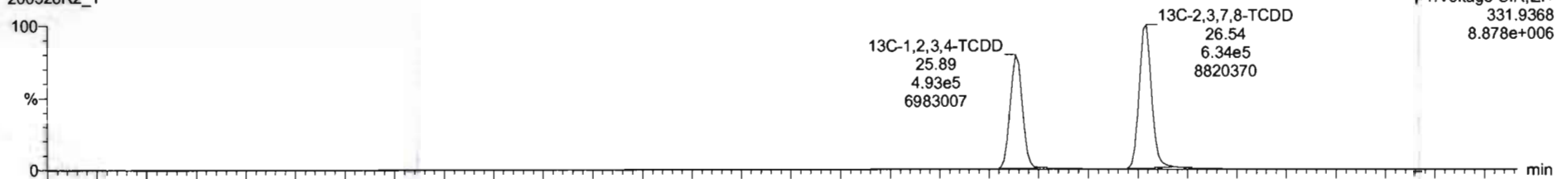
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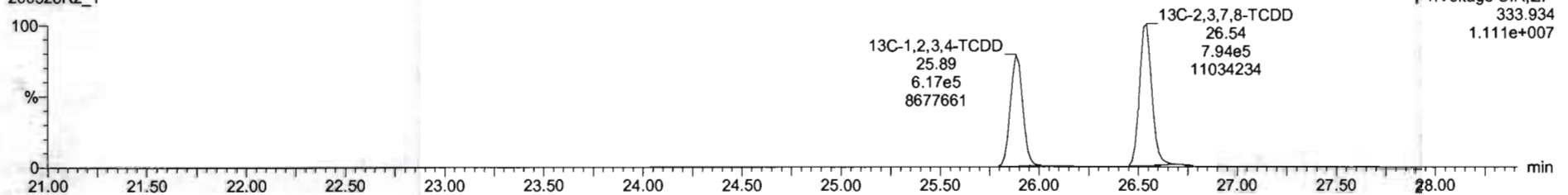
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200528R2\_1



200528R2\_1





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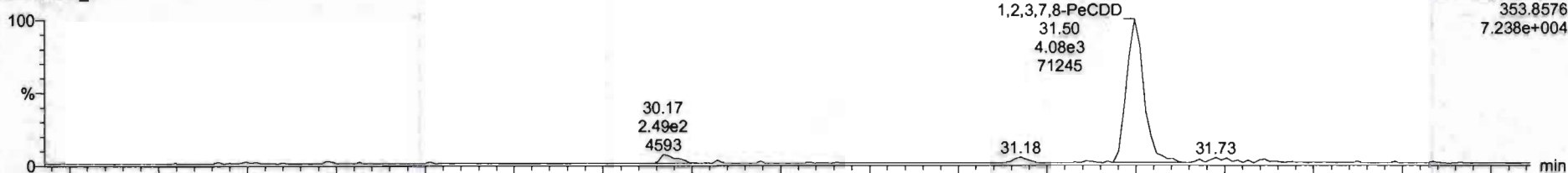
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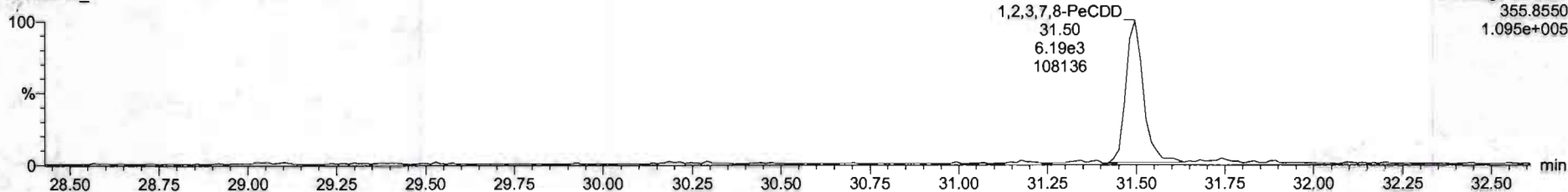
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**1,2,3,7,8-PeCDD**

200528R2\_1

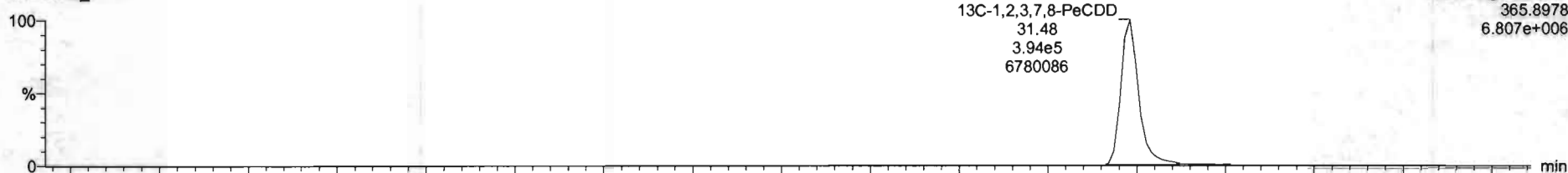


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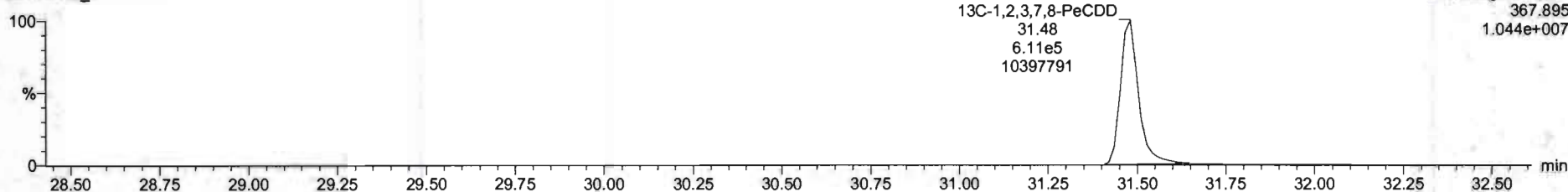


**13C-1,2,3,7,8-PeCDD**

200528R2\_1



200528R2\_1



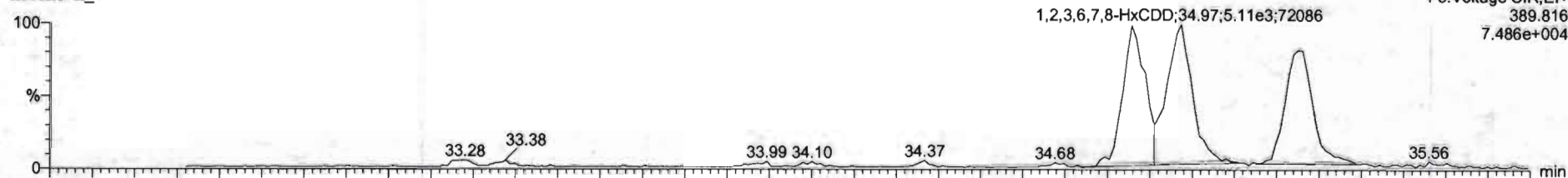
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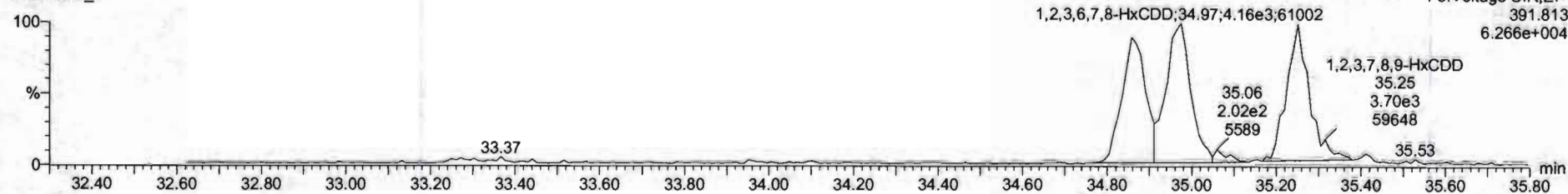
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1,2,3,4,7,8-HxCDD

200528R2\_1

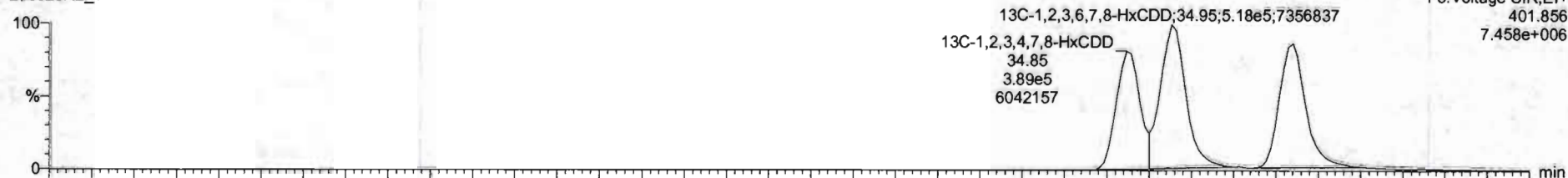


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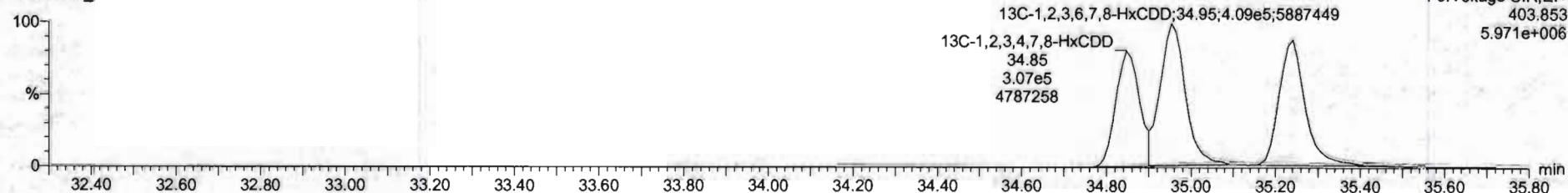


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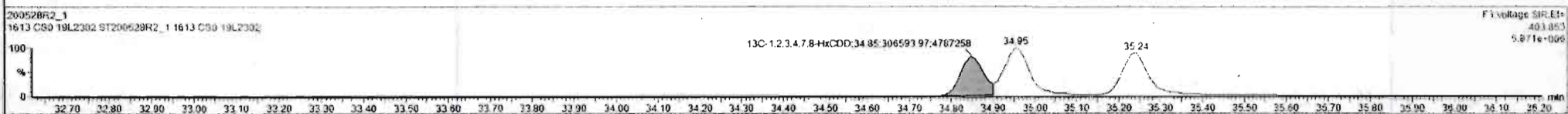
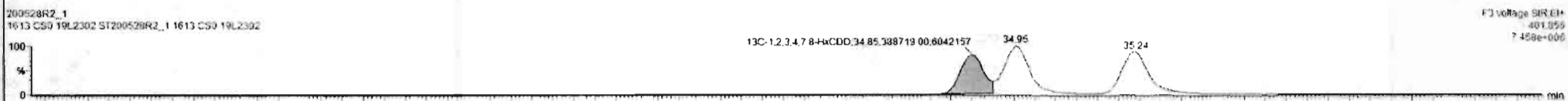
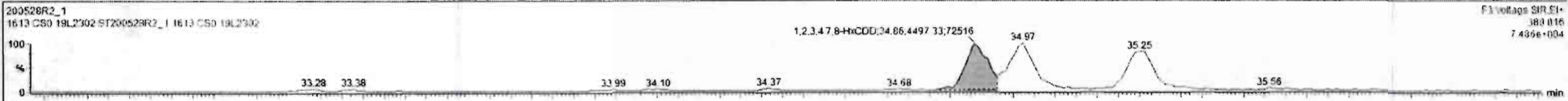
200528R2\_1



200528R2\_1



#	Name	Resp	RA	Qty	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.78e3	0.56	NO	0.8583	1.000	26.54	1.000	0.213	35.2	0.0247	0.213
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3	1,2,3,4,7,8-HxCDD	0.03e3	1.27	NO	1.0334	1.000	34.86	1.000	1.12	89.4	0.0428	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8865	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8539	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.23e3	0.73	NO	0.7510	1.000	25.87	1.001	0.223	39.1	0.0142	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0369	1.09
10	1,2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	6.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8562	1.000	34.11	1.001	1.12	89.2	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14	1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8787	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,5,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.02	81.8	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.43e6	0.30	NO	1.1563	1.000	26.54	1.026	111	111	0.0632	
19	13C-1,2,3,7,8-PeCDD	1.06e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	34.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	



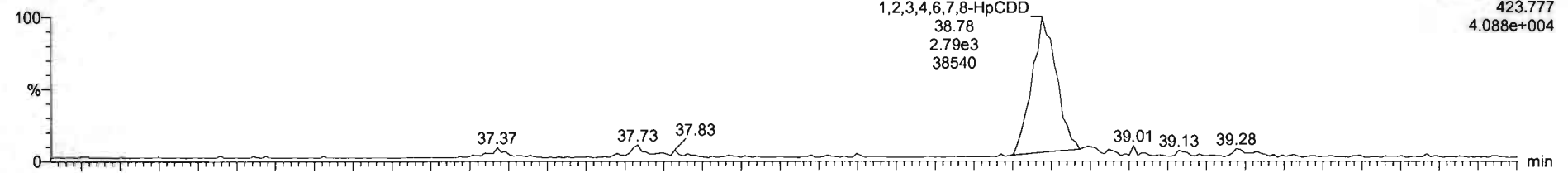
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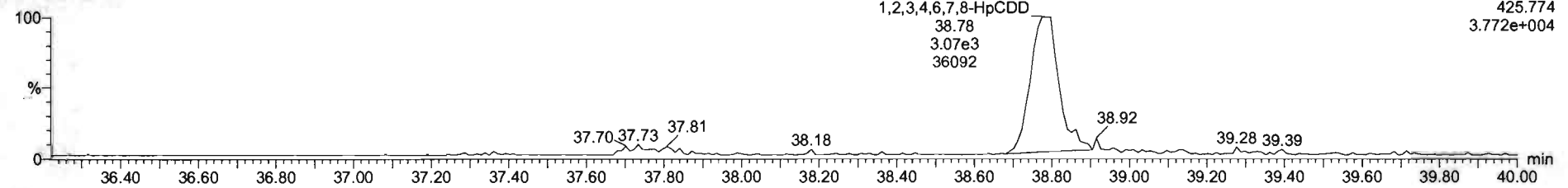
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**1,2,3,4,6,7,8-HpCDD**

200528R2\_1

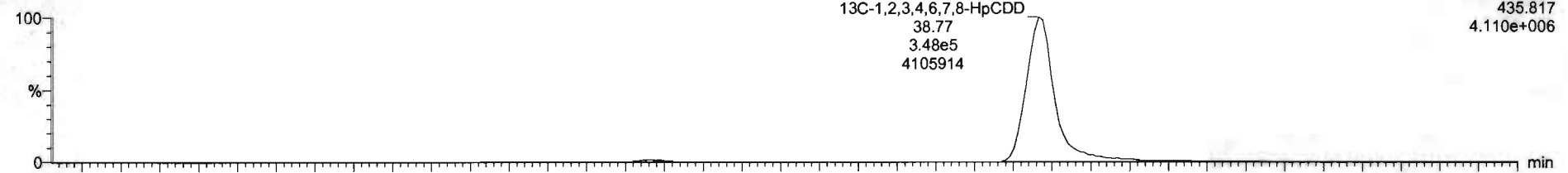


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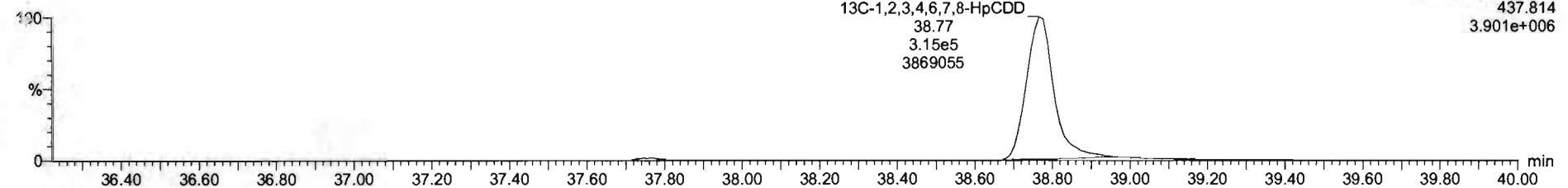


**13C-1,2,3,4,6,7,8-HpCDD**

200528R2\_1

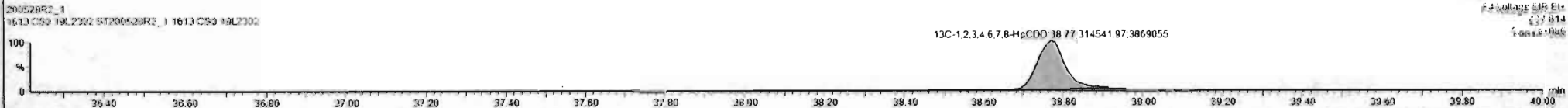


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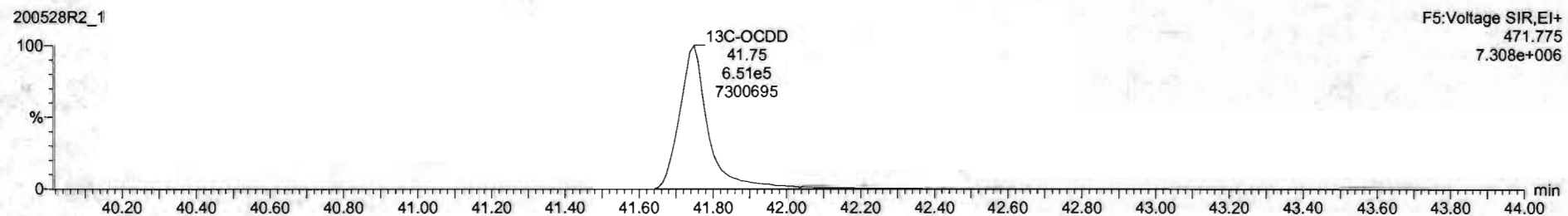
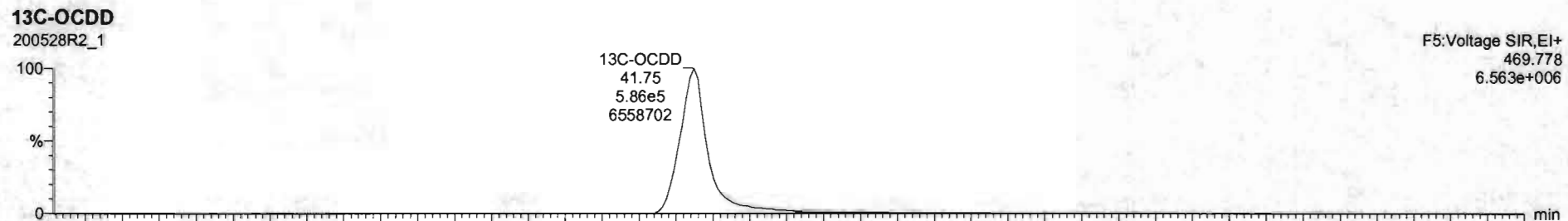
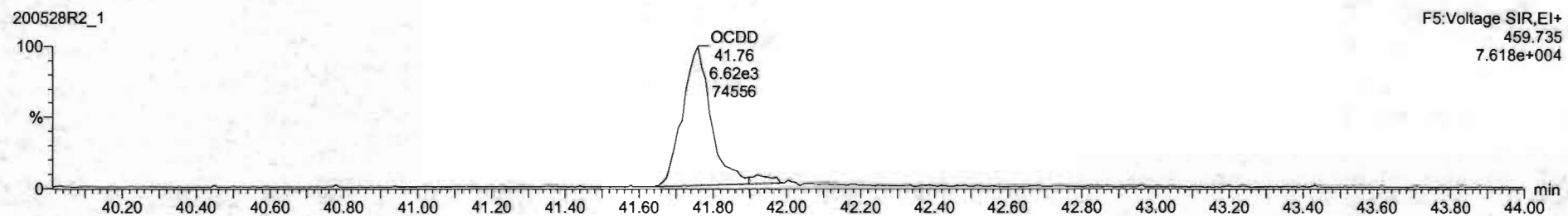
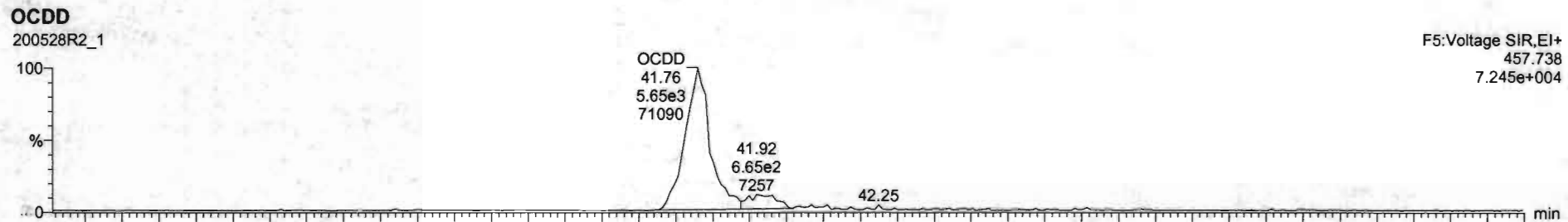
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1	2,3,7,8-TCDD	2.70e3	0.58	NO	0.8583	1.000	26.54	1.000	0.212	88.2	0.0247	0.212
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0282	1.12
3	1,2,3,4,7,8-HxCDD	5.02e3	1.27	NO	1.0324	1.000	34.86	1.000	1.12	69.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	6.14e3	1.30	NO	0.8065	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8839	1.000	36.70	1.000	1.09	87.2	0.0556	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.70	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.323	89.1	0.0142	0.222
9	1,2,3,7,8-PeCDF	1.46e4	1.51	NO	0.8925	1.000	30.20	1.000	1.09	67.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	6.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8052	1.000	34.11	1.001	1.12	88.2	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0379	1.10
14	1,2,3,7,8,9-HxCDF	7.46e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HxCDF	5.26e3	0.99	NO	1.0128	1.000	39.32	1.001	1.02	81.8	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8085	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.43e8	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0682	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8450	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0187	1.000	34.95	1.017	108	108	0.243	



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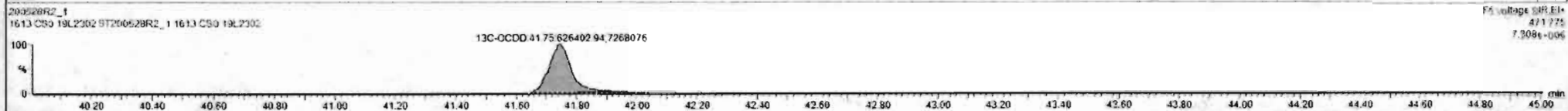
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#	Name	Resp	RA	nHy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.70e3	0.68	NO	0.8863	1.000	26.54	1.000	0.212	85.2	0.0247	0.213
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3	1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0334	1.000	34.06	1.000	1.12	89.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8523	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8205	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9138	1.000	41.78	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0142	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9346	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	8.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.03	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8552	1.000	34.11	1.001	1.12	89.3	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0379	1.10
14	1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.02	81.8	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.43e6	0.80	NO	1.1563	1.000	28.54	1.026	111	111	0.0682	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	8.95e5	1.27	NO	0.7750	1.000	34.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0187	1.000	34.95	1.017	108	108	0.243	



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200528R2\_1

CAP NUM

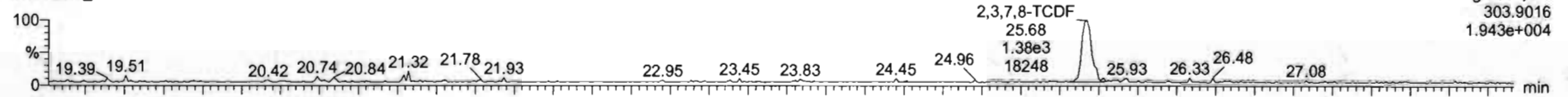
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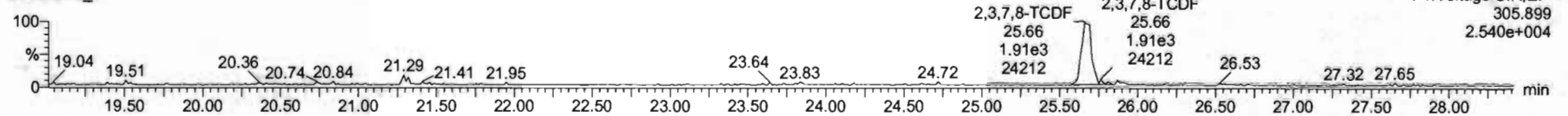
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**2,3,7,8-TCDF**

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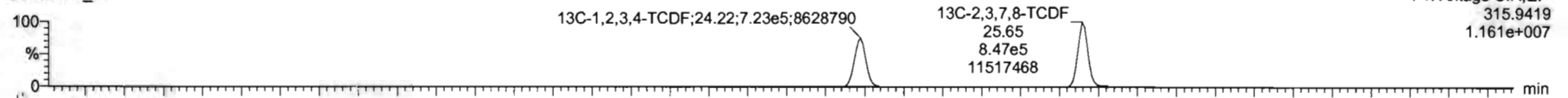


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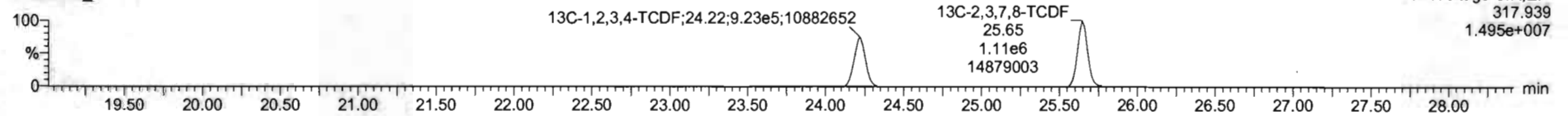


**13C-2,3,7,8-TCDF**

200528R2\_1

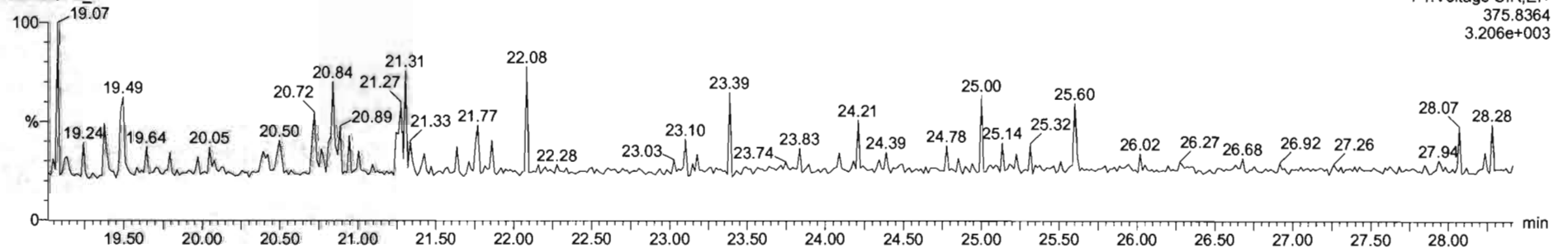


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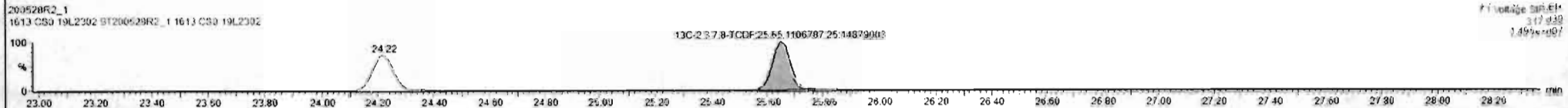
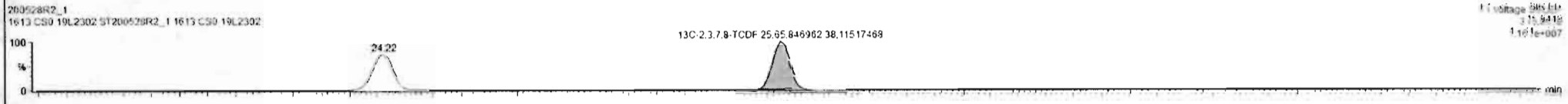
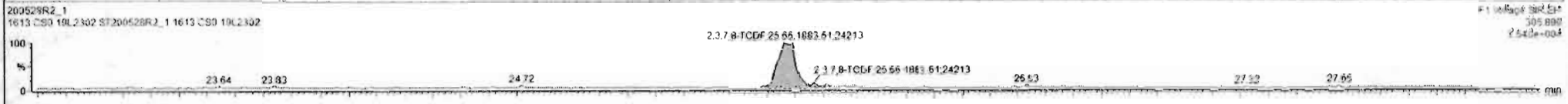
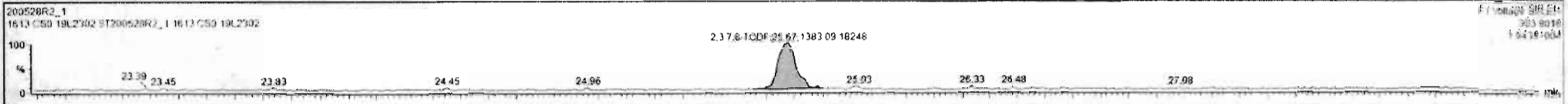


**DPE1**

200528R2\_1



#	Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.70e3	0.68	NO	0.8883	1.000	26.54	1.000	0.212	95.2	0.0247	0.212
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	21.50	1.000	1.12	90.6	0.0292	1.12
3	1,2,3,4,7,8-HxCDD	8.03e2	1.27	NO	1.0334	1.000	34.96	1.000	1.12	89.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.13	89.7	0.0465	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8865	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0140	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	20.20	1.006	1.09	87.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	8.95e3	1.25	NO	0.8845	1.000	33.99	1.001	1.00	86.2	0.0369	1.00
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8862	1.000	34.11	1.001	1.12	89.3	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14	1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0624	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0126	1.000	39.33	1.001	1.02	61.6	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8085	1.000	41.96	1.000	2.23	92.4	0.0409	2.23
18	13C-2,3,7,8-TCDD	1.42e6	0.80	NO	1.1583	1.000	26.54	1.026	111	111	0.0682	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	34.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	168	168	0.243	



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200528R2\_1 CAP NUM

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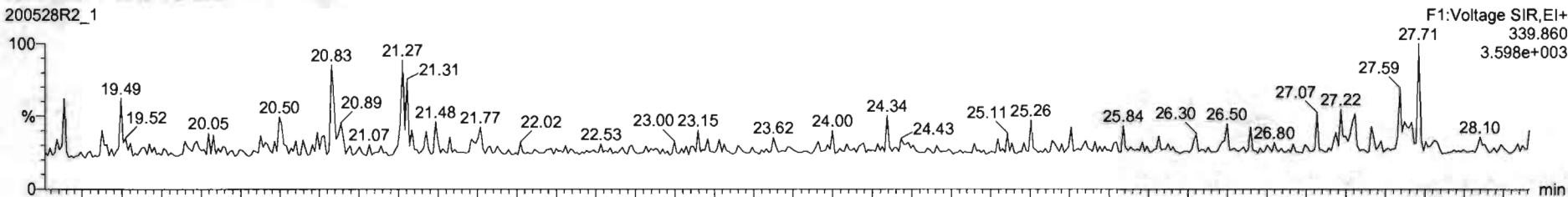
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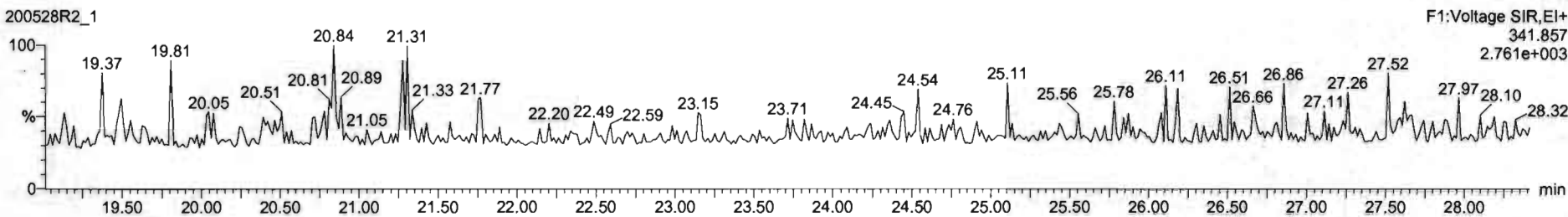
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200528R2\_1

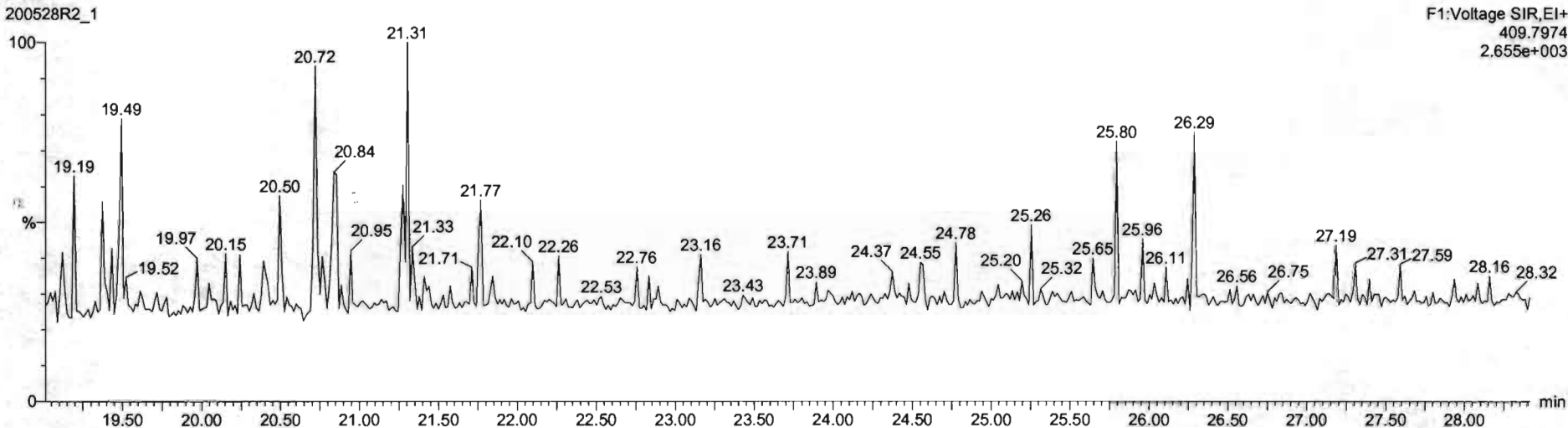


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DPE6

200528R2\_1



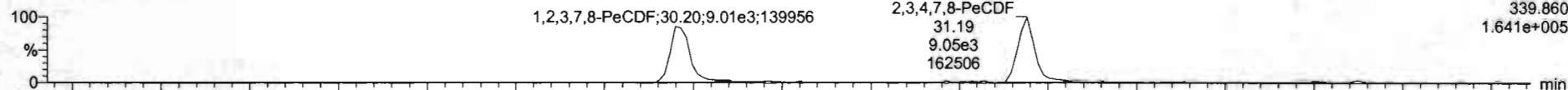
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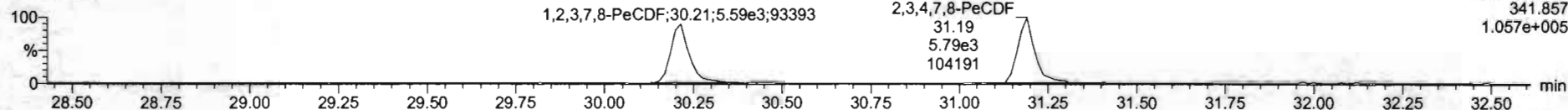
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**1,2,3,7,8-PeCDF**

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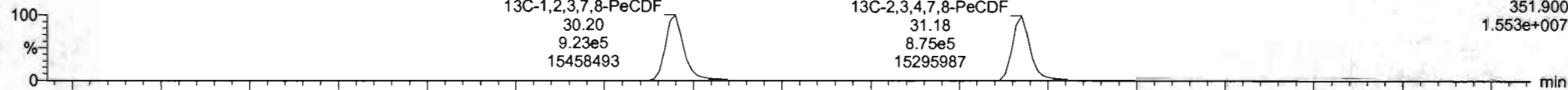


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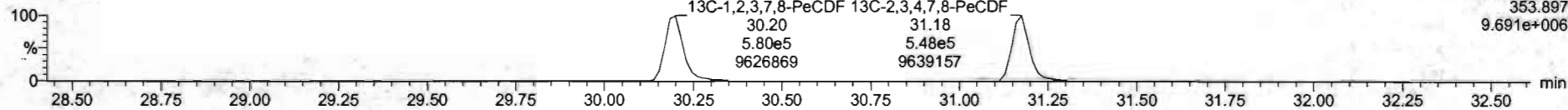


**13C-1,2,3,7,8-PeCDF**

200528R2\_1

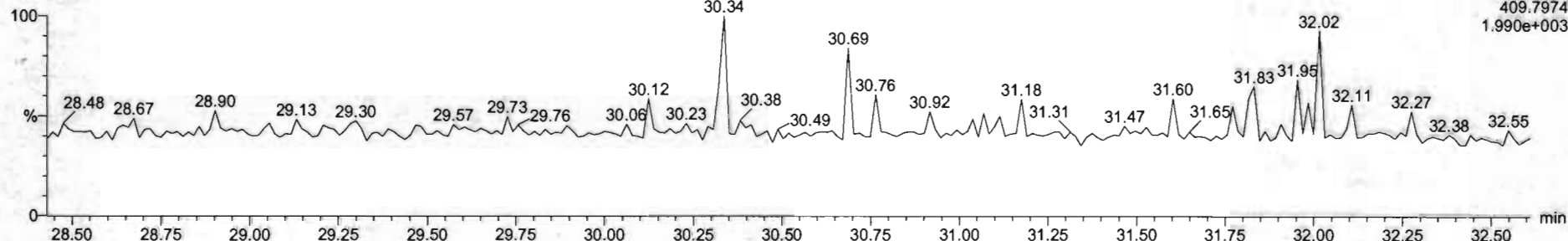


200528R2\_1



**DPE2**

200528R2\_1





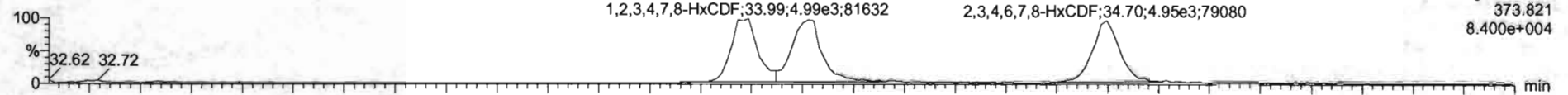
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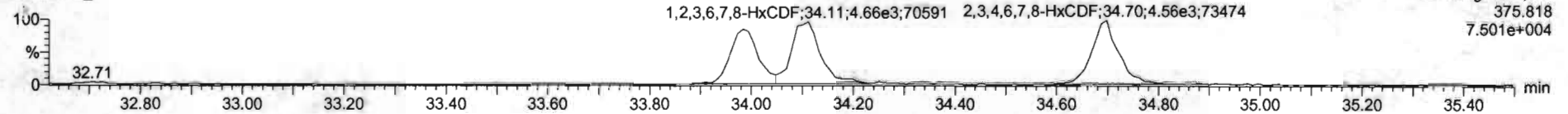
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**1,2,3,4,7,8-HxCDF**

200528R2\_1

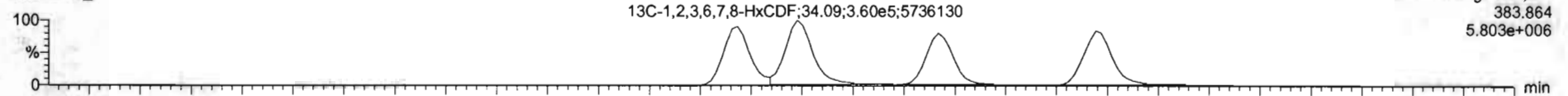


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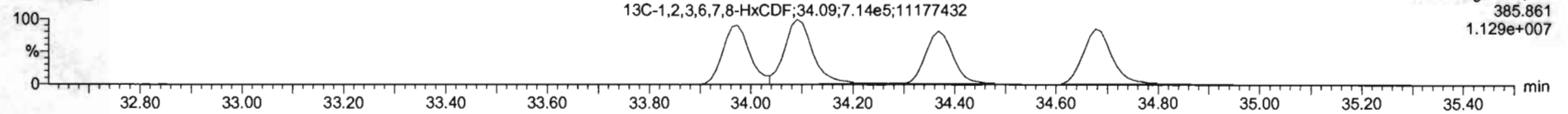


**13C-1,2,3,4,7,8-HxCDF**

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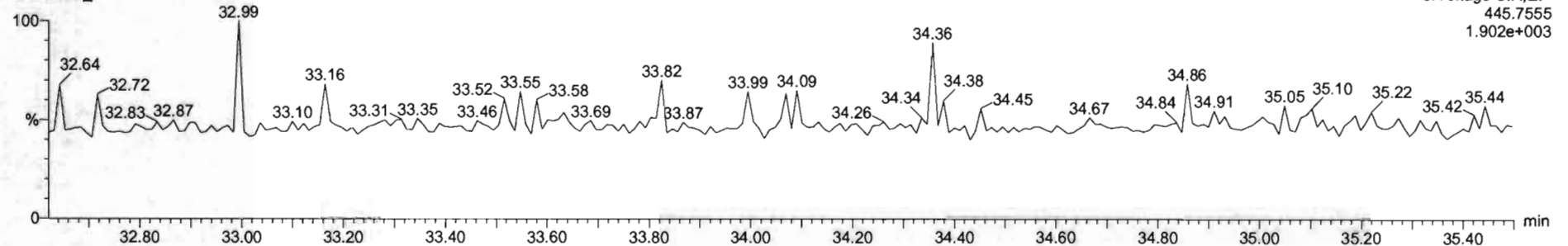


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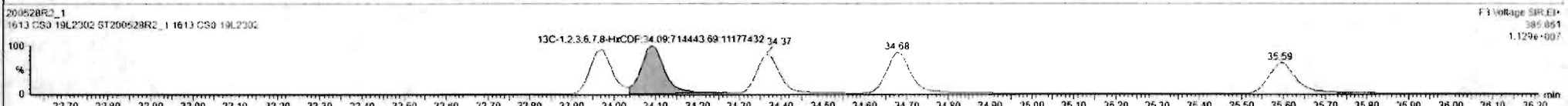
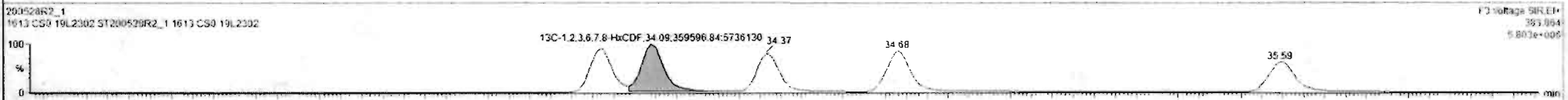
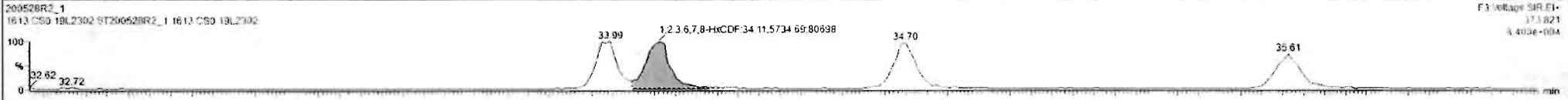
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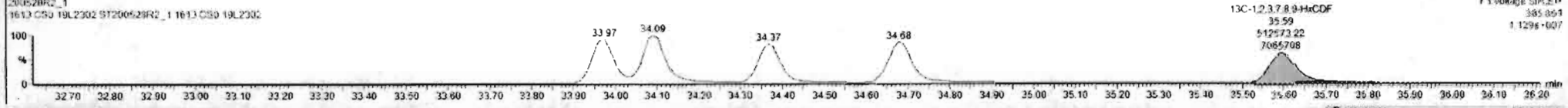
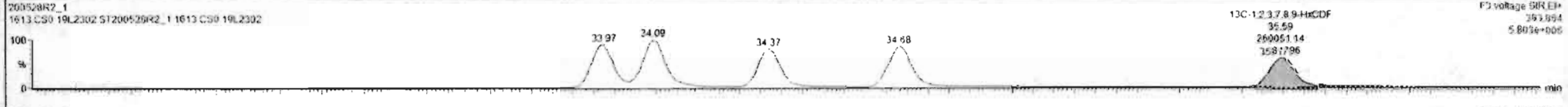




Name	Resp	RA	inj	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.70e3	0.58	NO	0.8883	1.000	26.54	1.000	0.213	85.2	0.0247	0.213
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.6051	1.000	31.50	1.000	1.12	90.0	0.0292	1.12
3 1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0324	1.000	24.86	1.000	1.12	89.4	0.0426	1.12
4 1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5 1,2,3,7,8,9-HxCDD	5.14e3	1.20	NO	0.8265	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6 1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	38.78	1.000	1.09	87.2	0.0566	1.09
7 OCDD	1.23e4	0.85	NO	0.9126	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8 2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	26.67	1.001	0.223	89.1	0.0147	0.223
9 1,2,3,7,8-PeCDF	1.46e4	1.81	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0709	1.09
10 2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11 1,2,3,4,7,8-HxCDF	6.56e3	1.25	NO	0.8845	1.000	33.99	1.001	1.05	86.2	0.0369	1.08
12 1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8082	1.000	34.11	1.001	1.12	89.3	0.0334	1.12
13 2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14 1,2,3,7,8,9-HxCDF	7.46e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15 1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16 1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.62	61.8	0.0523	1.02
17 OCDF	1.27e4	0.87	NO	0.8085	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18 13C-2,3,7,8-TCDD	1.43e6	0.30	NO	1.1563	1.000	26.54	1.026	111	111	0.0682	
19 13C-1,2,3,7,8-PeCDD	1.08e6	0.64	NO	0.8460	1.000	31.48	1.216	107	107	0.135	
20 13C-1,2,3,4,7,8-HxCDD	6.95e6	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.318	
21 13C-1,2,3,6,7,8-HxCDD	9.27e6	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	



#	Name	Resp	RA	ntf	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.76e3	0.68	NO	0.8883	1.000	26.54	1.000	0.213	95.2	0.0247	0.213
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.55	1.000	1.12	96.0	0.0292	1.12
3	1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0334	1.000	24.96	1.000	1.12	89.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8523	1.000	24.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8265	1.000	25.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.16e3	0.99	NO	0.8630	1.000	26.72	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.225	89.1	0.0142	0.225
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8325	1.000	20.20	1.000	1.09	87.1	0.0265	1.09
10	1,2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9346	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8,9-HxCDF	6.98e3	1.25	NO	0.8545	1.000	23.95	1.001	1.08	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8252	1.000	24.11	1.001	1.12	89.3	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	24.70	1.001	1.10	88.3	0.0279	1.10
14	1,2,3,7,8,9-HxCDF	7.46e3	1.19	NO	0.8707	1.000	25.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	27.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0126	1.000	20.33	1.001	1.02	81.6	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.42e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0832	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	24.95	1.017	108	108	0.243	



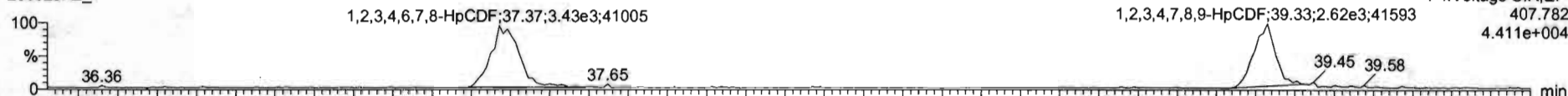
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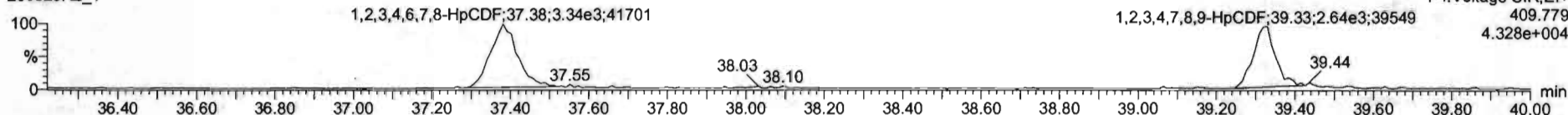
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1,2,3,4,6,7,8-HpCDF

200528R2\_1



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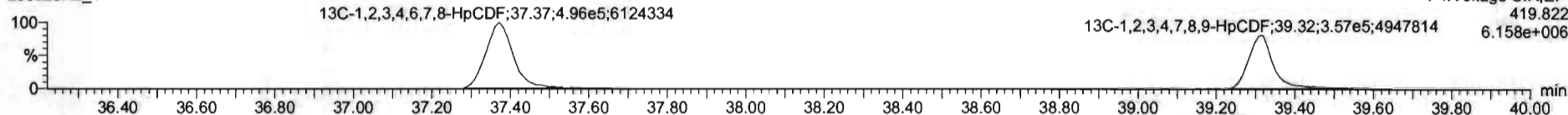


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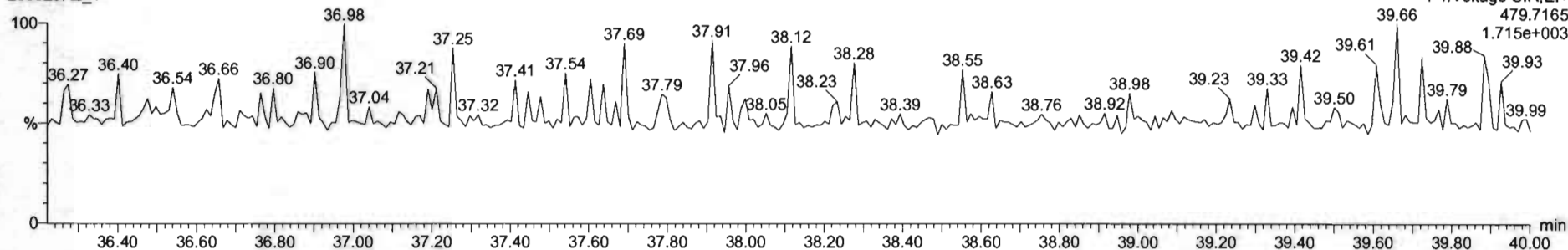


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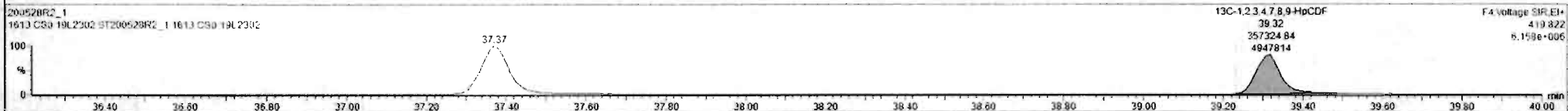
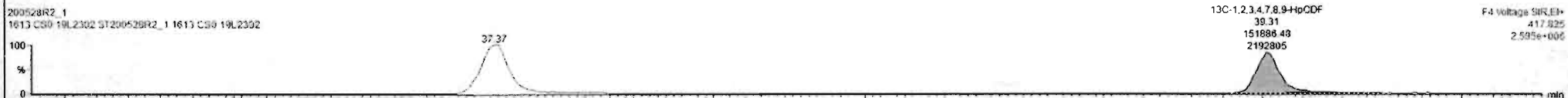
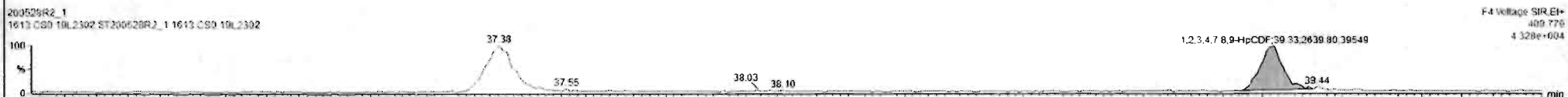


CPE4

200528R2\_1



Name	Resp	RA	nBy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.79e3	0.68	NO	0.8883	1.000	26.54	1.000	0.213	85.2	0.0247	0.213
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.6081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3 1,2,3,4,7,8-HxCDD	8.02e3	1.27	NO	1.0334	1.000	34.86	1.000	1.12	89.4	0.0426	1.12
4 1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5 1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8269	1.000	35.25	1.000	1.10	88.1	0.0404	1.10
6 1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7 OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.0	0.0470	2.27
8 2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.87	1.001	0.223	89.1	0.0142	0.223
9 1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0269	1.09
10 2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9346	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11 1,2,3,4,7,8-HxCDF	6.98e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12 1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8852	1.000	34.11	1.001	1.12	89.0	0.0334	1.12
13 2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14 1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8797	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15 1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	88.9	0.0524	1.09
16 1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0126	1.000	39.35	1.001	1.02	81.6	0.0523	1.02
17 OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	92.4	0.0409	2.33
18 13C-2,3,7,8-TCDD	1.42e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0682	
19 13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20 13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	34.85	1.014	106	106	0.218	
21 13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	

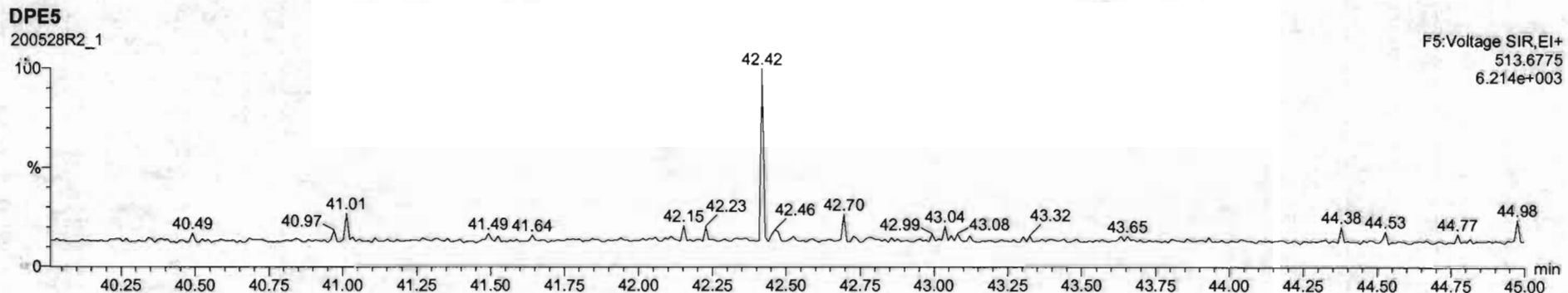
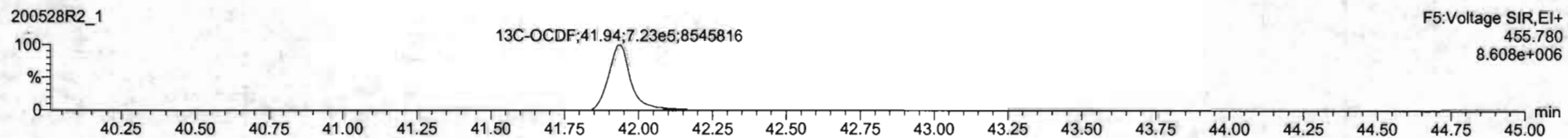
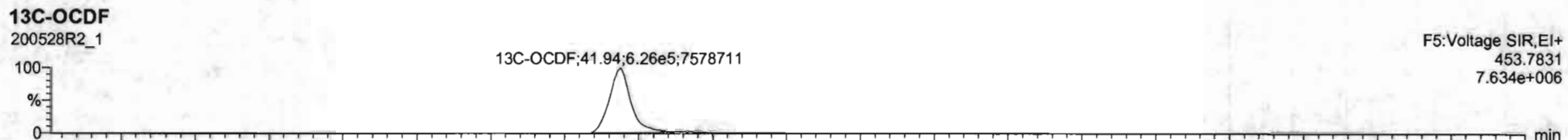
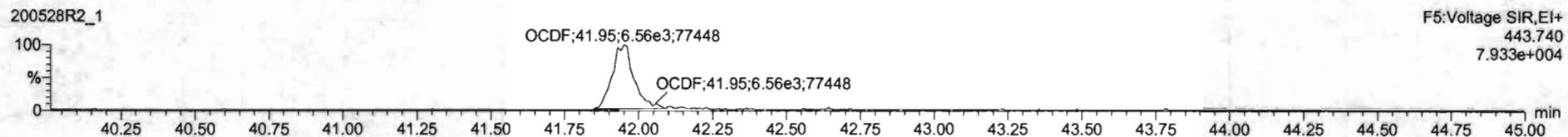
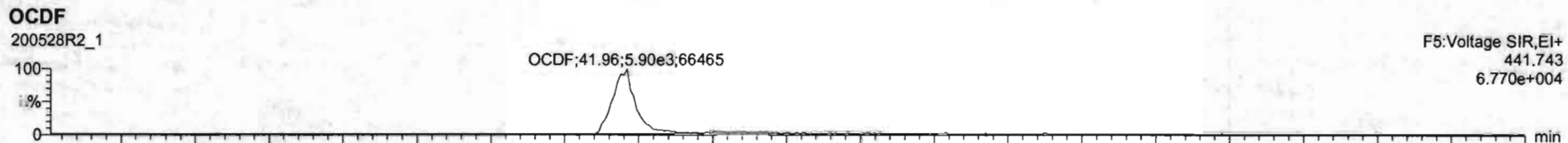




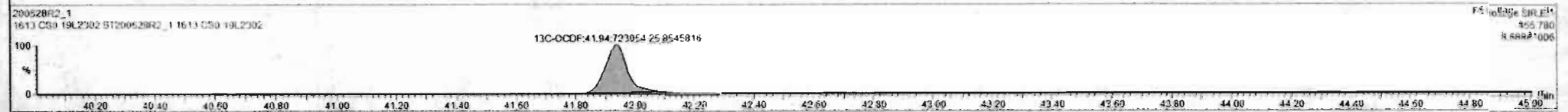
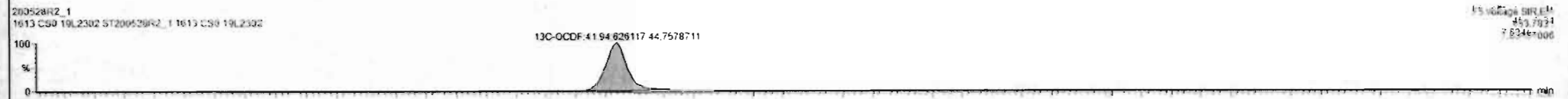
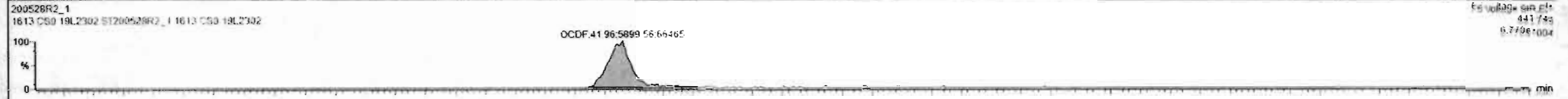
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2\_1, Date: 28-May-2020, Time: 11:53:52, ID: ST200528R2\_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



Name	Resp	RA	aly	RRF	wtWt	RT	RRT	Conc	%Rec	QL	EMPC
1 2,3,7,8-TCDD	2.70e3	0.98	NO	0.8803	1.000	26.54	1.000	0.212	85.7	0.0247	0.212
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9041	1.000	31.60	1.000	1.12	90.0	0.0202	1.12
3 1,2,3,4,7,8-HxCDD	0.03e3	1.27	NO	1.0324	1.000	34.86	1.000	1.12	89.4	0.042E	1.12
4 1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.9523	1.000	34.97	1.001	1.12	89.7	0.040E	1.12
5 1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.9205	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6 1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.056E	1.09
7 OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8 2,3,7,8-TCDF	3.27e3	0.75	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0142	0.223
9 1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0269	1.09
10 2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11 1,2,3,4,7,8-HxCDF	6.98e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12 1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8892	1.000	24.11	1.001	1.12	89.7	0.0334	1.12
13 2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14 1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15 1,2,3,4,5,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16 1,2,3,4,7,8,9-HpCDF	5.26e3	0.95	NO	1.0126	1.000	39.33	1.001	1.02	81.6	0.0523	1.02
17 OCDF	1.27e4	0.87	NO	0.8685	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18 13C-2,3,7,8-TCDD	1.43e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0632	
19 13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20 13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.218	
21 13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	

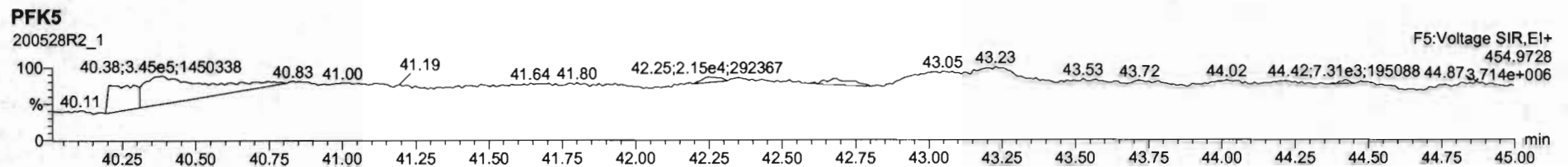
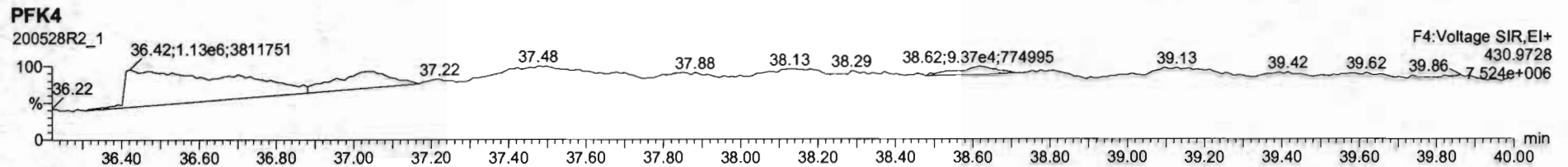
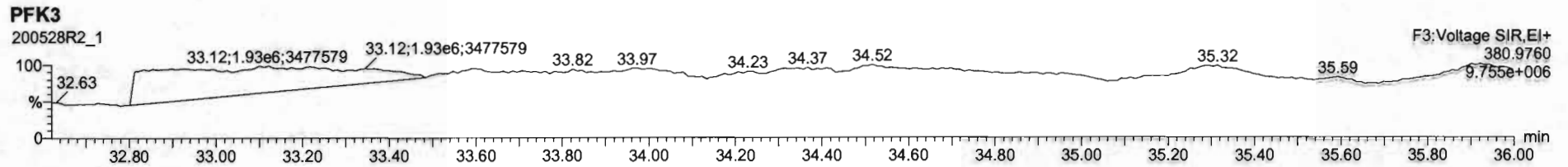
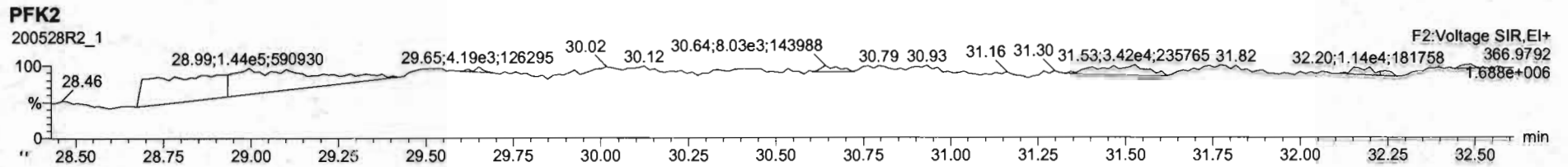
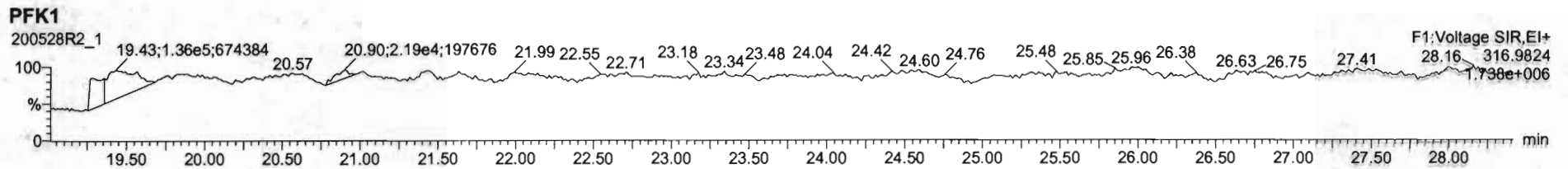




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Name: 200528R2\_1, Date: 28-May-2020, Time: 11:53:52, ID: ST200528R2\_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



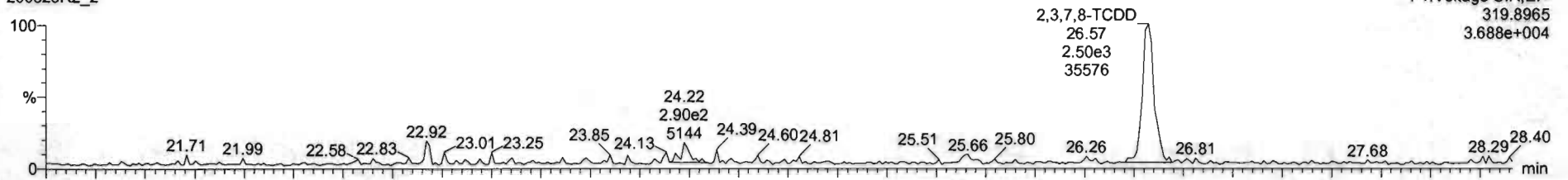
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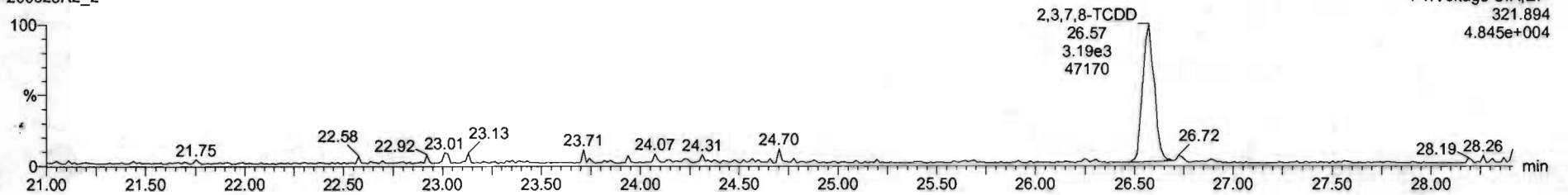
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**2,3,7,8-TCDD**

200528R2\_2

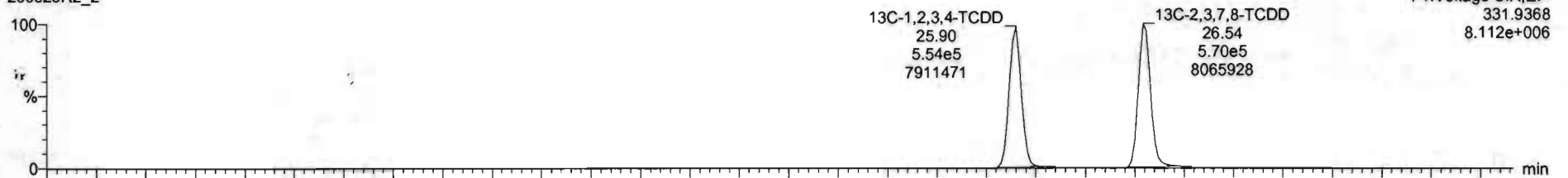


200528R2\_2

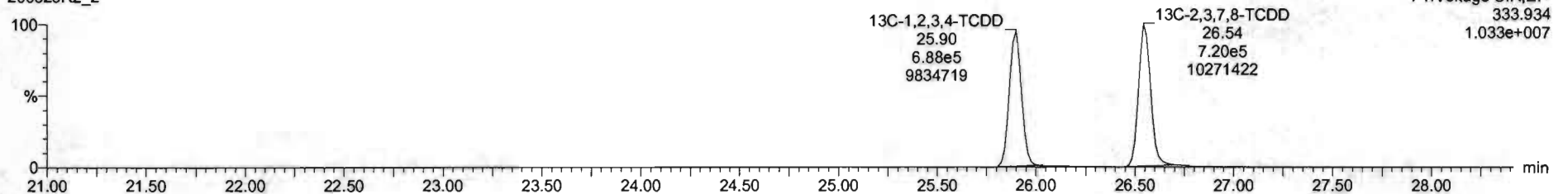


**13C-2,3,7,8-TCDD**

200528R2\_2



200528R2\_2



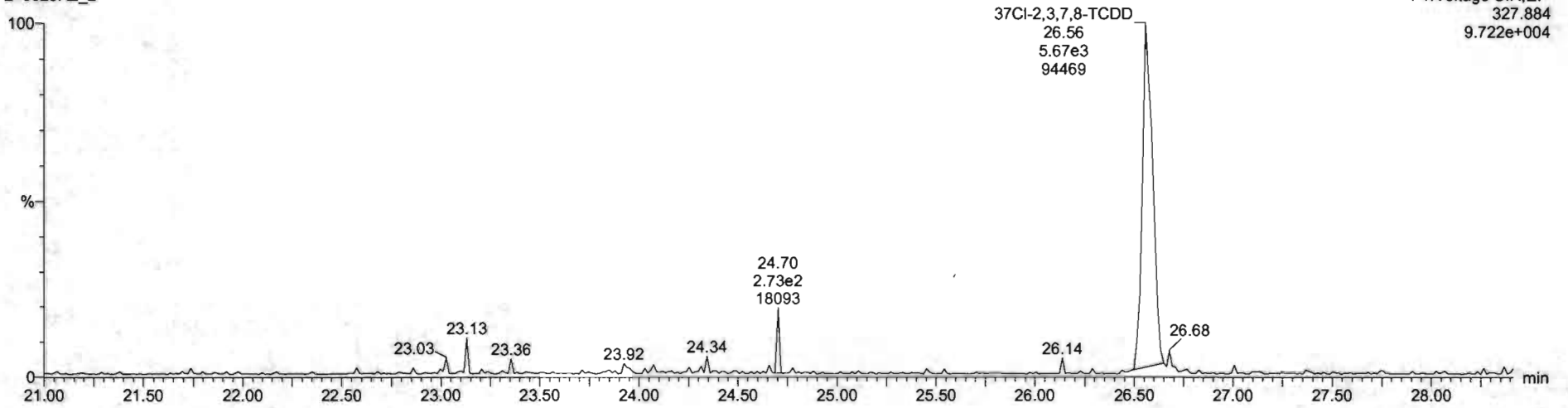
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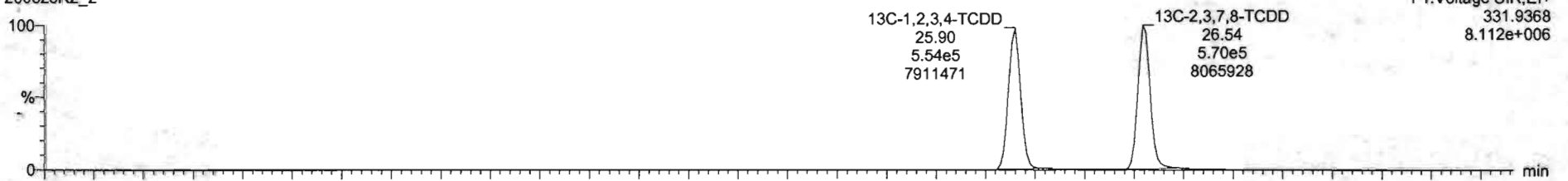
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200528R2\_2

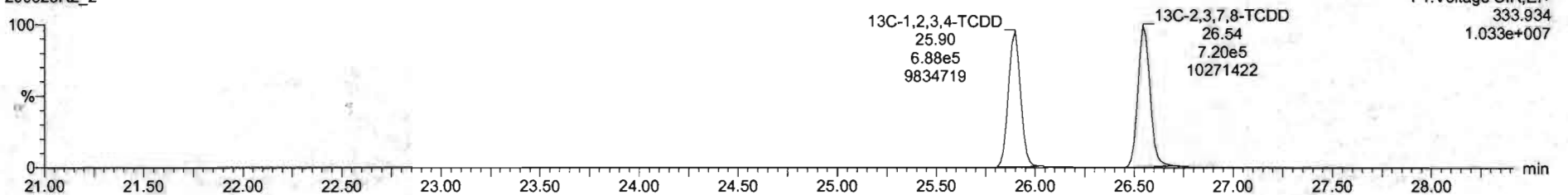


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200528R2\_2



200528R2\_2



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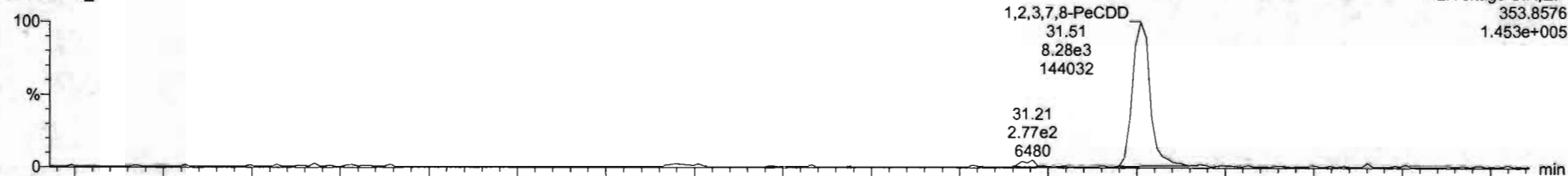
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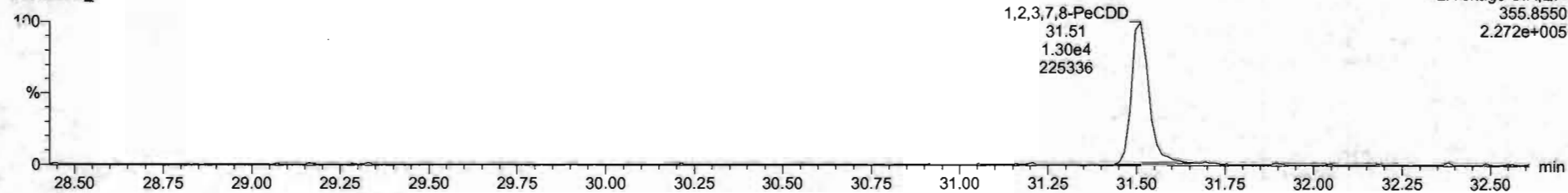
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**1,2,3,7,8-PeCDD**

200528R2\_2

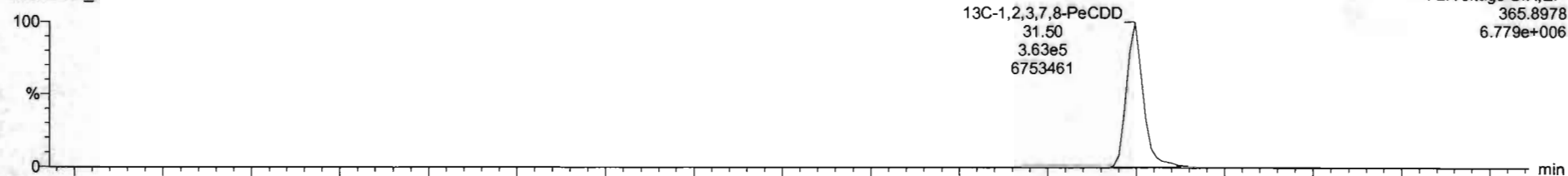


200528R2\_2

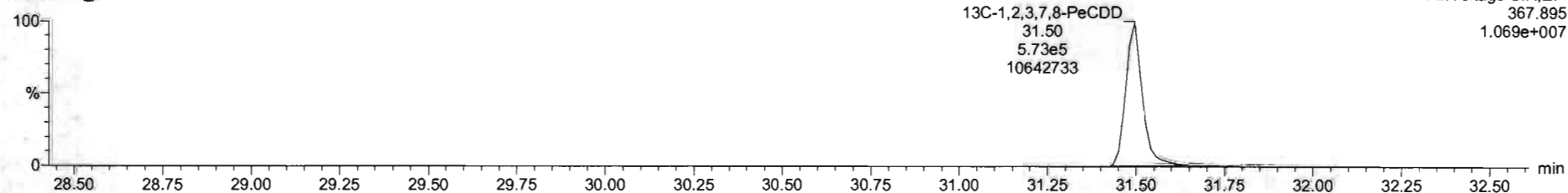


**13C-1,2,3,7,8-PeCDD**

200528R2\_2



200528R2\_2



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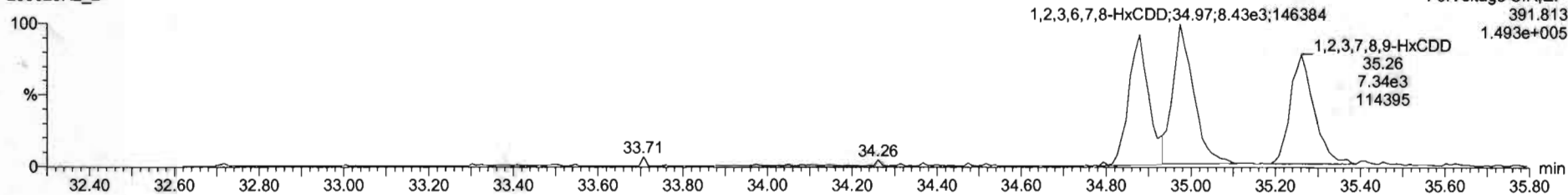
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**1,2,3,4,7,8-HxCDD**

200528R2\_2

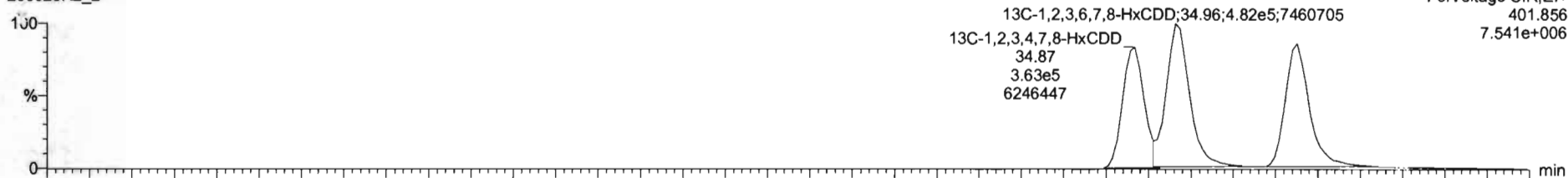


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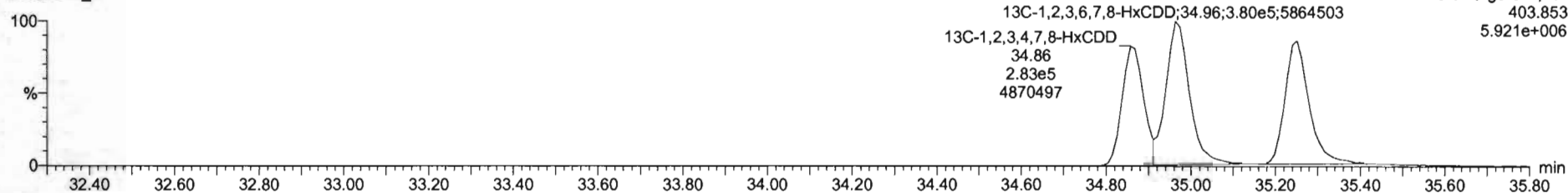


**13C-1,2,3,4,7,8-HxCDD**

200528R2\_2



200528R2\_2



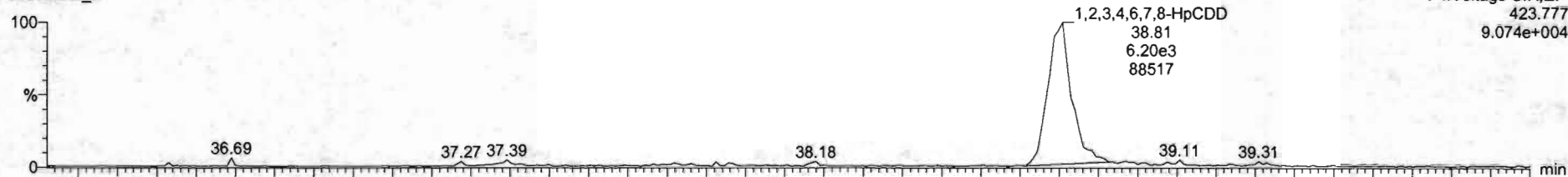
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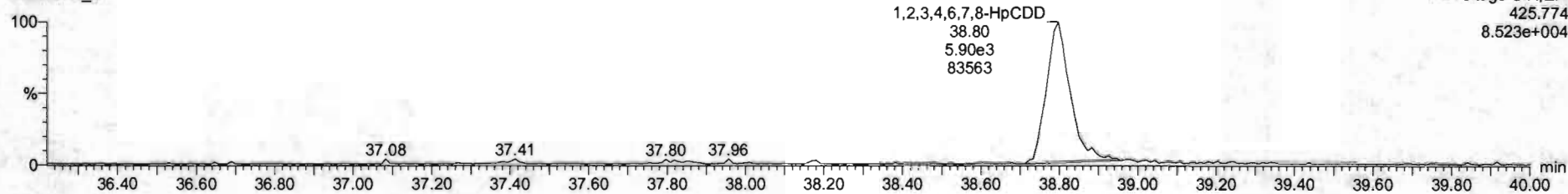
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**1,2,3,4,6,7,8-HpCDD**

200528R2\_2

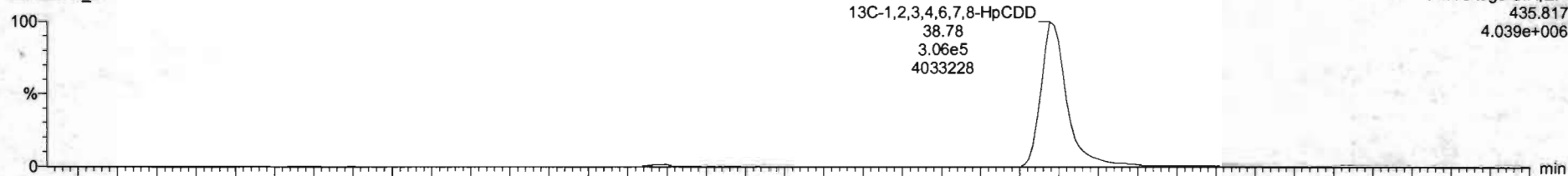


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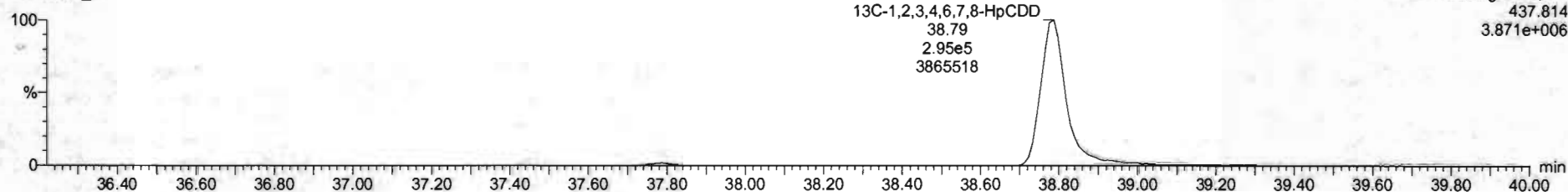


**13C-1,2,3,4,6,7,8-HpCDD**

200528R2\_2



200528R2\_2

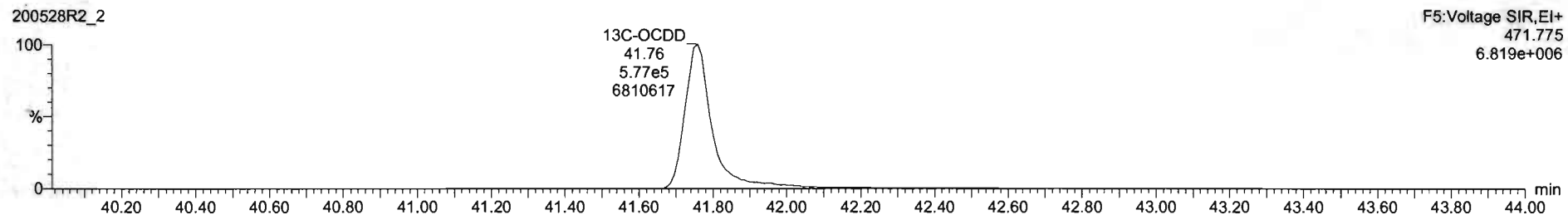
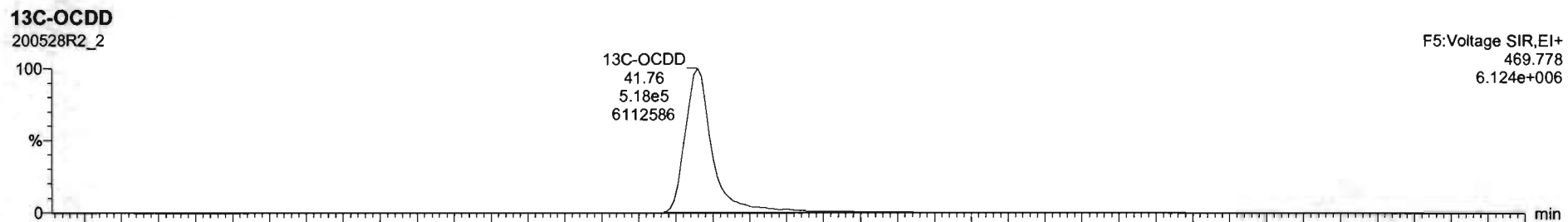
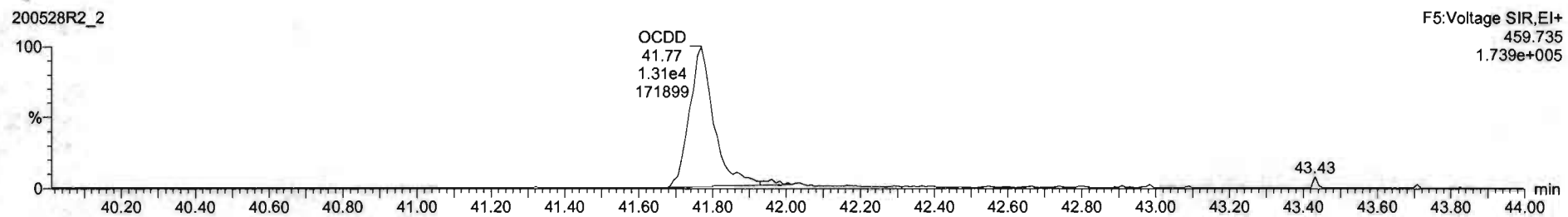
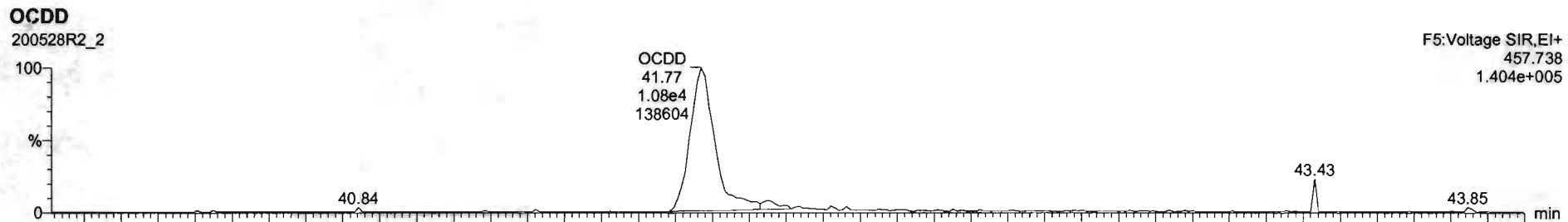




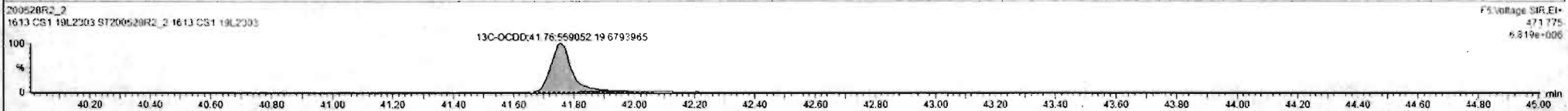
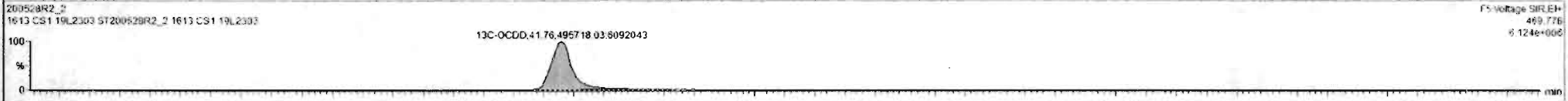
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Name: 200528R2\_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2\_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303



Name	Resp	RA	nJY	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.69e3	0.78	NO	0.8883	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2 1,2,3,7,8-PeCDD	2.12e4	0.84	NO	0.9081	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3 1,2,3,4,7,8-HxCDD	1.69e4	1.27	NO	1.0324	1.000	34.86	1.000	2.53	101	0.0774	2.53
4 1,2,3,6,7,8-HxCDD	1.50e4	1.25	NO	0.8923	1.000	34.99	1.001	2.47	98.6	0.0747	2.47
5 1,2,3,7,8,9-HxCDD	1.62e4	1.21	NO	0.8865	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6 1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8639	1.000	36.61	1.001	2.33	93.3	0.0613	2.33
7 OCDD	2.39e4	0.83	NO	0.9136	1.000	41.77	1.000	4.97	98.4	0.149	4.97
8 2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.463	97.7	0.0670	0.466
9 1,2,3,7,8-PeCDF	3.06e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10 2,3,4,7,8-PeCDF	3.19e4	1.55	NO	0.9348	1.000	31.21	1.000	2.52	101	0.0395	2.52
11 1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8845	1.000	33.99	1.000	2.41	96.3	0.0665	2.41
12 1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.8892	1.000	34.12	1.000	2.50	100	0.0642	2.50
13 2,3,4,6,7,8-HxCDF	1.93e4	1.26	NO	0.9241	1.000	34.71	1.001	2.38	96.3	0.0702	2.38
14 1,2,3,7,8,9-HxCDF	1.48e4	1.12	NO	0.8707	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15 1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16 1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0128	1.000	39.32	1.000	2.33	93.3	0.0630	2.33
17 OCDF	2.40e4	0.84	NO	0.8065	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18 13C-2,3,7,8-TCDD	1.29e6	0.79	NO	1.1563	1.000	26.54	1.025	89.3	89.8	0.0928	
19 13C-1,2,3,7,8-PeCDD	9.36e5	0.83	NO	0.8490	1.000	31.50	1.216	86.7	88.7	0.113	
20 13C-1,2,3,4,7,8-HxCDD	6.46e5	1.26	NO	0.7790	1.000	34.87	1.014	85.9	85.9	0.183	
21 13C-1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0187	1.000	34.95	1.017	87.7	87.7	0.140	

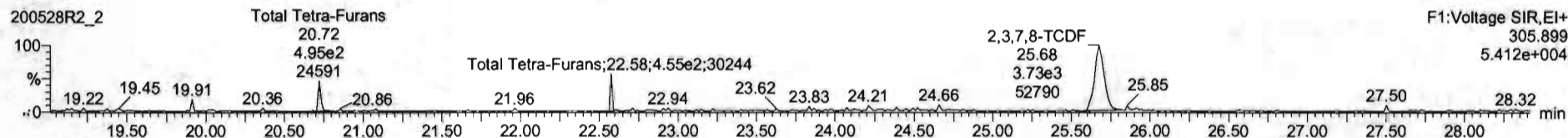
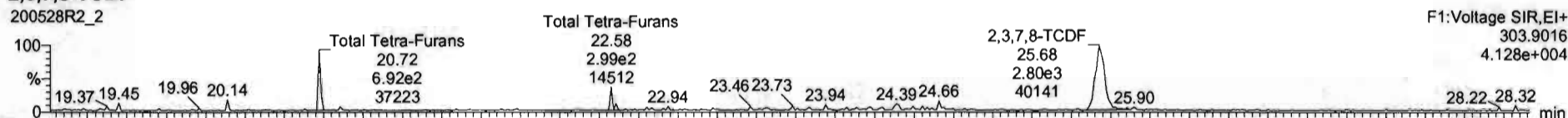


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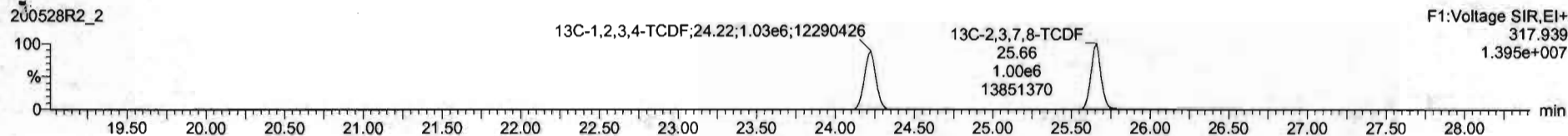
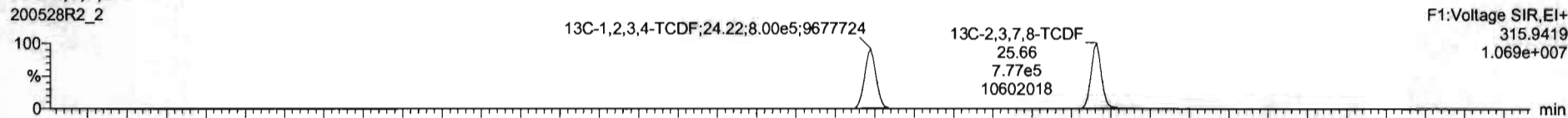
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2\_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2\_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

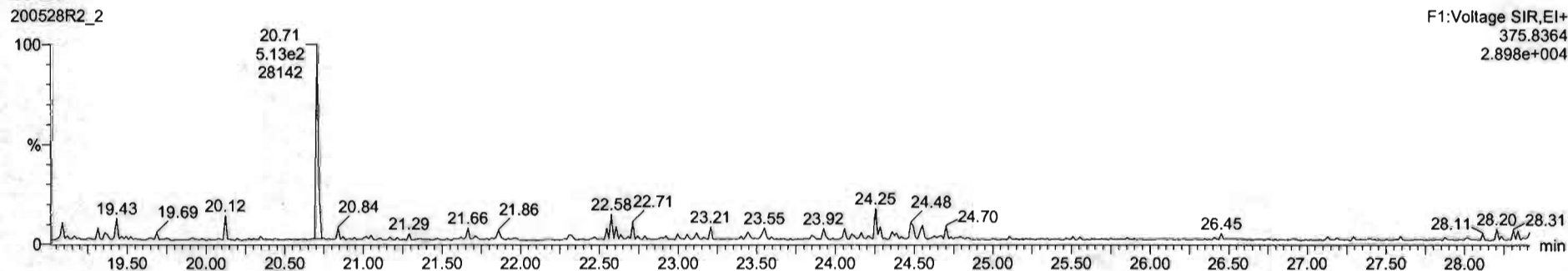
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

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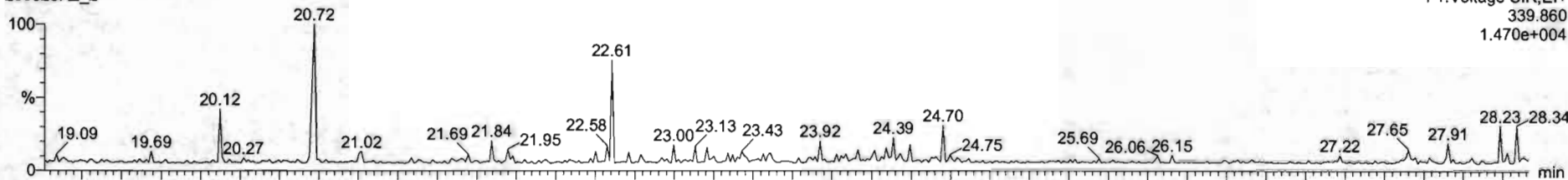
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Name: 200528R2\_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2\_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

1st Func. Penta-Furans

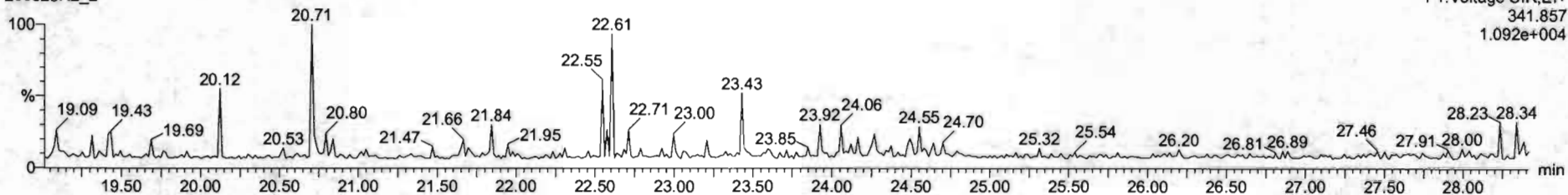
200528R2\_2

F1:Voltage SIR,EI+  
339.860  
1.470e+004



200528R2\_2

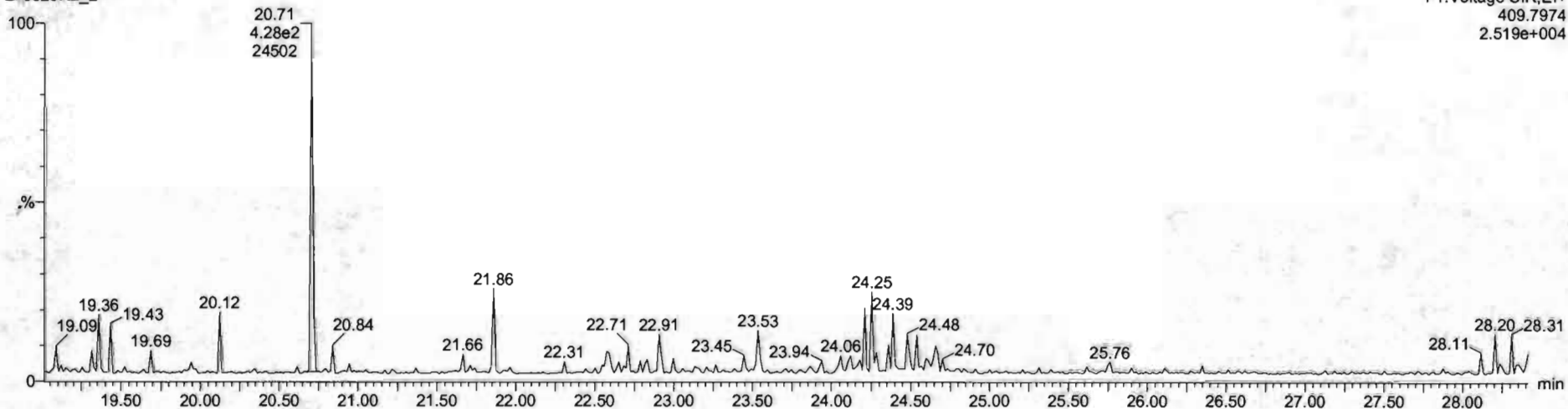
F1:Voltage SIR,EI+  
341.857  
1.092e+004



DPE6

200528R2\_2

F1:Voltage SIR,EI+  
409.7974  
2.519e+004



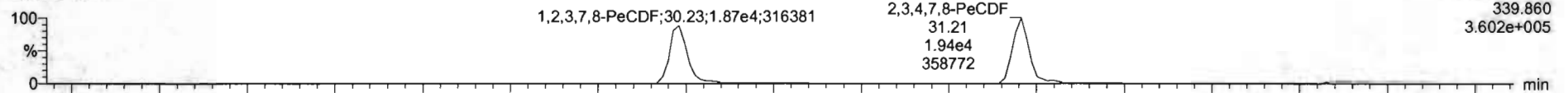
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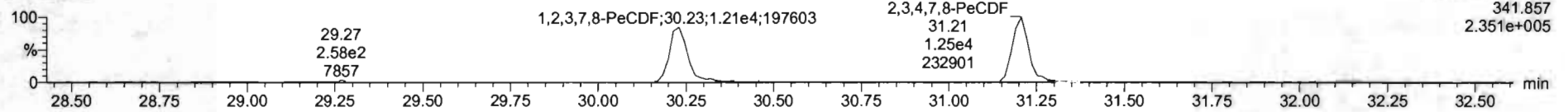
**1,2,3,7,8-PeCDF**

200528R2\_2



F2:Voltage SIR,EI+  
339.860  
3.602e+005

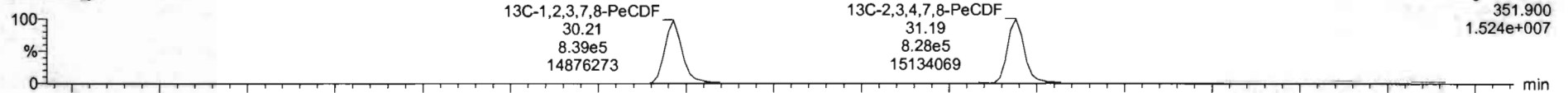
200528R2\_2



F2:Voltage SIR,EI+  
341.857  
2.351e+005

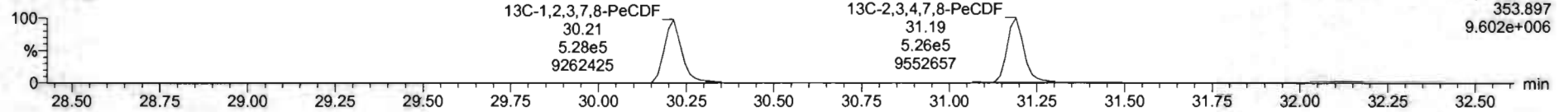
**13C-1,2,3,7,8-PeCDF**

200528R2\_2



F2:Voltage SIR,EI+  
351.900  
1.524e+007

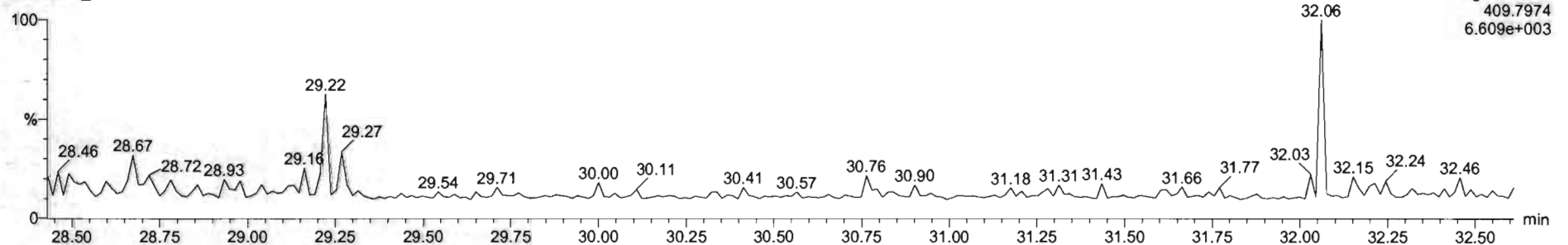
200528R2\_2



F2:Voltage SIR,EI+  
353.897  
9.602e+006

**DPE2**

200528R2\_2



F2:Voltage SIR,EI+  
409.7974  
6.609e+003

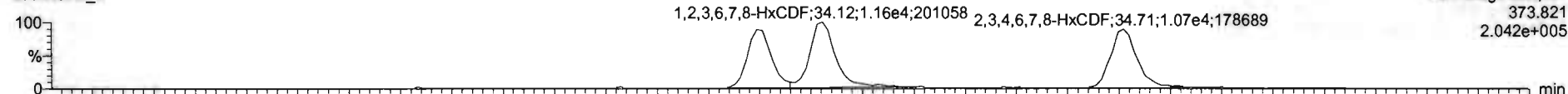
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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time  
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2\_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2\_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

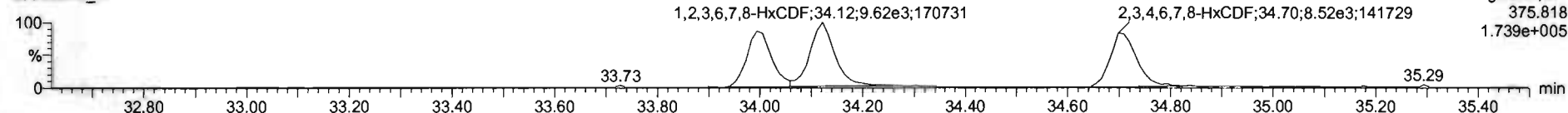
**1,2,3,4,7,8-HxCDF**

200528R2\_2



F3: Voltage SIR, EI+  
373.821  
2.042e+005

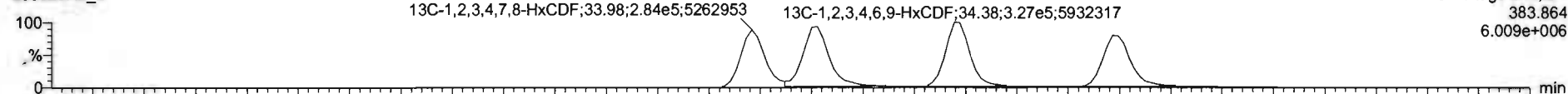
200528R2\_2



F3: Voltage SIR, EI+  
375.818  
1.739e+005

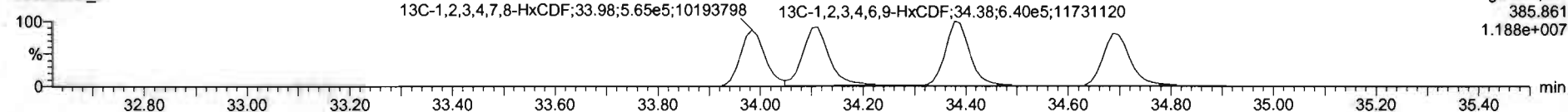
**13C-1,2,3,4,7,8-HxCDF**

200528R2\_2



F3: Voltage SIR, EI+  
383.864  
6.009e+006

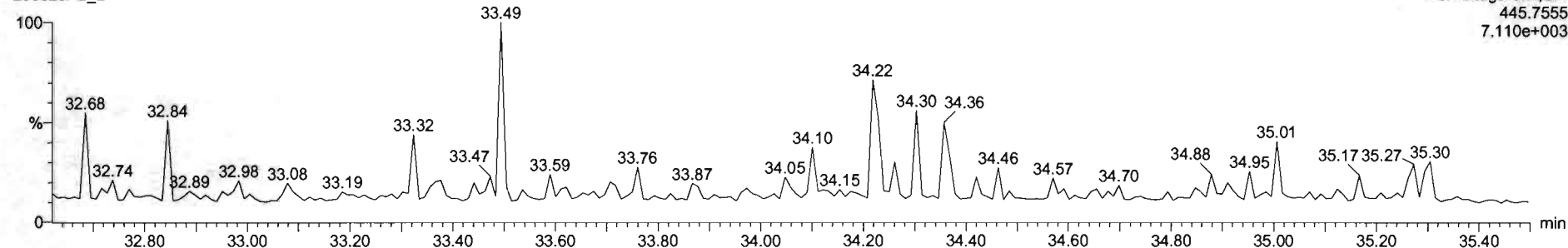
200528R2\_2



F3: Voltage SIR, EI+  
385.861  
1.188e+007

**DPE3**

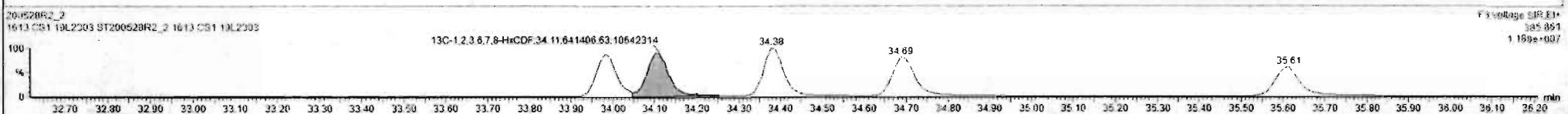
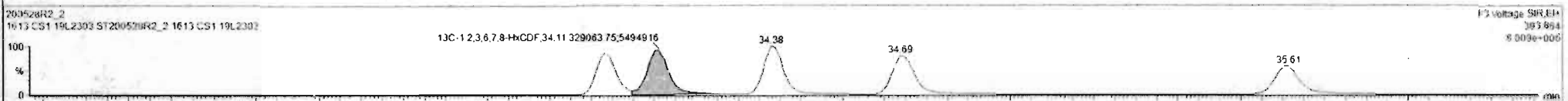
200528R2\_2



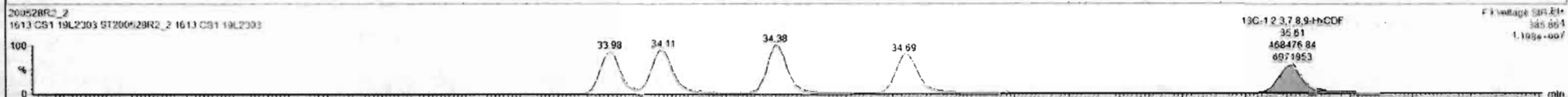
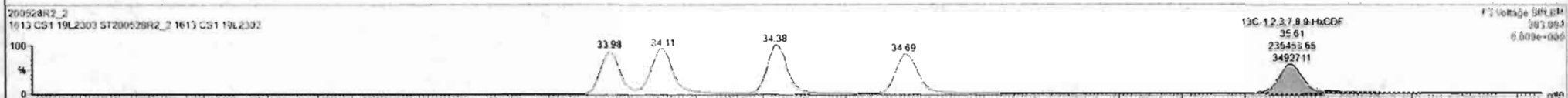
F3: Voltage SIR, EI+  
445.7555  
7.110e+003



#	Name	Resp	RA	nby	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.69e3	0.76	NO	0.8963	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2	1,2,3,7,8-PeCDD	2.12e4	0.64	NO	0.9051	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3	1,2,3,4,7,8-HxCDD	1.69e4	1.27	NO	1.0334	1.000	34.86	1.000	2.53	101	0.0774	2.53
4	1,2,3,6,7,8-HxCDD	1.90e4	1.25	NO	0.8979	1.000	34.99	1.001	2.47	98.5	0.0747	3.47
5	1,2,3,7,9-HxCDD	1.62e4	1.21	NO	0.8269	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6	1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8639	1.000	36.51	1.001	2.33	93.3	0.0618	2.33
7	OCDD	2.39e4	0.83	NO	0.9136	1.000	41.77	1.000	4.97	99.4	0.149	4.97
8	2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.468	97.7	0.0620	0.468
9	1,2,3,7,8-PeCDF	3.08e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10	2,3,4,7,8-PeCDF	3.19e4	1.55	NO	0.9340	1.000	31.21	1.000	2.52	101	0.0395	2.52
11	1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8545	1.000	33.99	1.000	2.41	96.3	0.0665	3.41
12	1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.6552	1.000	34.12	1.000	2.50	100	0.0542	2.50
13	2,3,4,6,7,8-HxCDF	1.93e4	1.26	NO	0.9341	1.000	34.71	1.001	2.38	95.3	0.0702	2.38
14	1,2,3,7,8,9-HxCDF	1.46e4	1.12	NO	0.8707	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15	1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16	1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0128	1.000	39.33	1.000	2.33	93.3	0.0630	2.33
17	OCDF	2.40e4	0.84	NO	0.8085	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18	12C-2,3,7,8-TCDD	1.79e6	0.79	NO	1.1563	1.000	26.54	1.025	89.8	89.8	0.0928	
19	13C-1,2,3,7,8-PeCDD	9.36e5	0.63	NO	0.8490	1.000	31.50	1.216	68.7	68.7	0.113	
20	13C-1,2,3,4,7,8-HxCDD	6.46e5	1.28	NO	0.7750	1.000	34.87	1.014	85.9	85.9	0.183	
21	13C-1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0187	1.000	34.96	1.017	87.7	87.7	0.140	



#	Name	Resp	RA	ntf	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.99e3	0.76	NO	0.8843	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2	1,2,3,7,8-PeCDD	2.12e4	0.84	NO	0.9051	1.000	31.51	1.000	2.50	99.3	0.0401	2.50
3	1,2,3,4,7,8-HxCDD	1.05e4	1.27	NO	1.0334	1.000	34.85	1.000	2.53	101	0.0774	2.53
4	1,2,3,6,7,8-HxCDD	1.90e4	1.25	NO	0.8973	1.000	34.99	1.001	2.47	98.5	0.0747	2.47
5	1,2,3,7,8,9-HxCDD	1.62e4	1.21	NO	0.8565	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6	1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8638	1.000	36.81	1.001	2.33	93.3	0.0618	2.33
7	OCDD	2.39e4	0.83	NO	0.9126	1.000	41.77	1.000	4.97	99.4	0.149	4.97
8	2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.468	97.7	0.0620	0.468
9	1,2,3,7,8-PeCDF	3.05e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10	2,3,4,7,8-PeCDF	0.15e4	1.55	NO	0.9346	1.000	31.21	1.000	2.52	101	0.0395	2.52
11	1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8845	1.000	33.99	1.000	2.41	96.3	0.0665	2.41
12	1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.8882	1.000	34.12	1.000	2.50	100	0.0642	2.50
13	2,3,4,6,7,8-HxCDF	1.93e4	1.26	NO	0.9341	1.000	34.71	1.001	2.36	96.3	0.0702	2.36
14	1,2,3,7,8,9-HxCDF	1.48e4	1.12	NO	0.8787	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15	1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16	1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0128	1.000	39.33	1.000	2.33	93.3	0.0630	2.33
17	OCDF	2.40e4	0.84	NO	0.8565	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18	13C-2,3,7,8-TCDD	1.29e6	0.79	NO	1.1562	1.000	26.54	1.025	89.8	89.8	0.0528	
19	13C-1,2,3,7,8-PeCDD	9.36e5	0.63	NO	0.8490	1.000	31.50	1.216	88.7	88.7	0.113	
20	13C-1,2,3,4,7,8-HxCDD	6.46e5	1.28	NO	0.7750	1.000	34.87	1.014	85.9	85.9	0.183	
21	13C-1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0157	1.000	34.96	1.017	87.7	87.7	0.140	



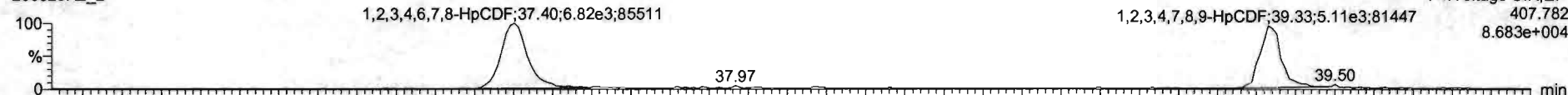
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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time  
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2\_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2\_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

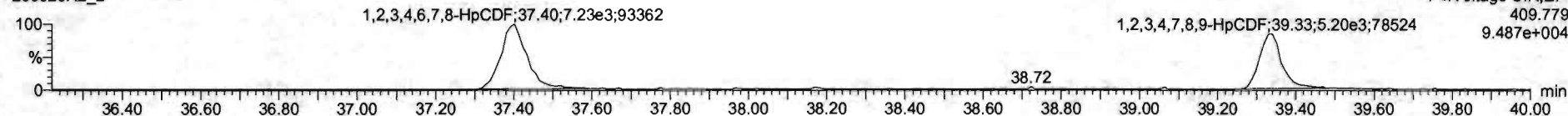
**1,2,3,4,6,7,8-HpCDF**

200528R2\_2



F4:Voltage SIR,EI+  
407.782  
8.683e+004

200528R2\_2



F4:Voltage SIR,EI+  
409.779  
9.487e+004

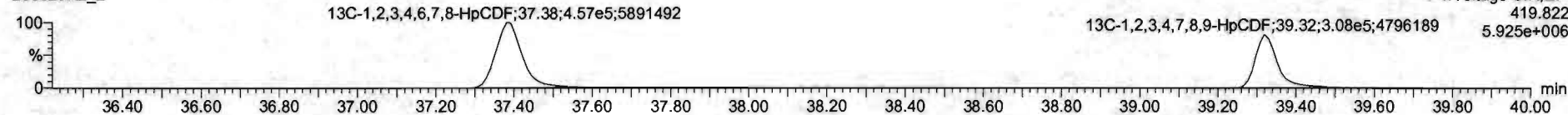
**13C-1,2,3,4,6,7,8-HpCDF**

200528R2\_2



F4:Voltage SIR,EI+  
417.825  
2.595e+006

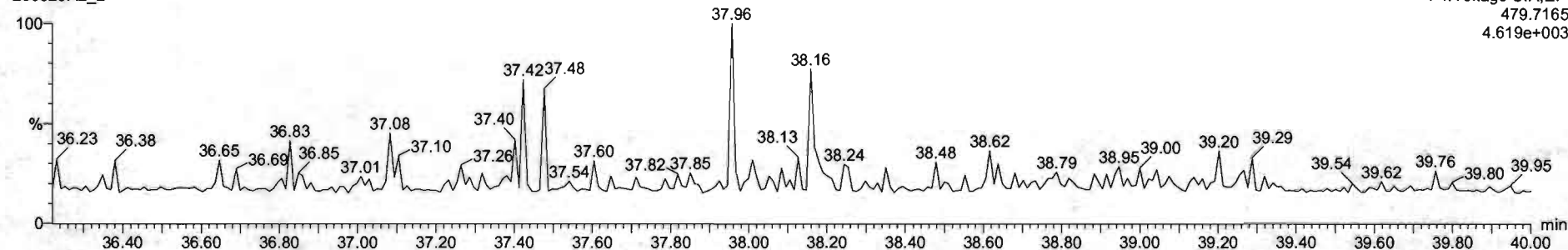
200528R2\_2



F4:Voltage SIR,EI+  
419.822  
5.925e+006

**DPE4**

200528R2\_2



F4:Voltage SIR,EI+  
479.7165  
4.619e+003

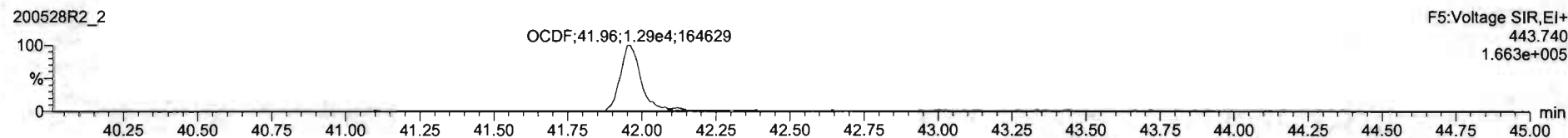
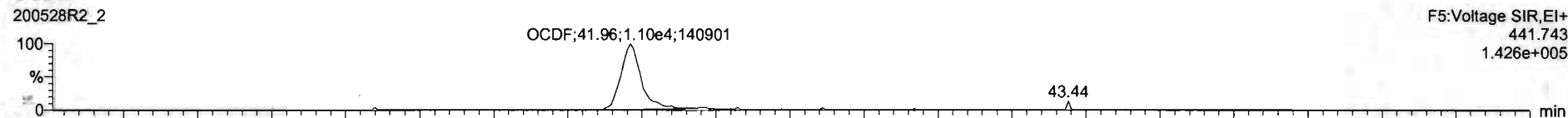
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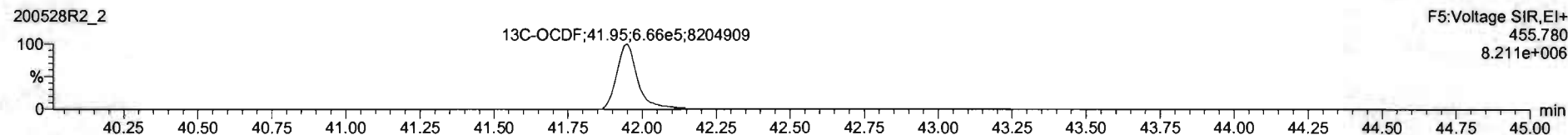
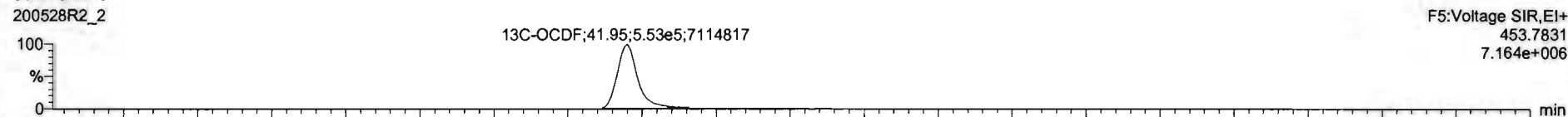
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Name: 200528R2\_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2\_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

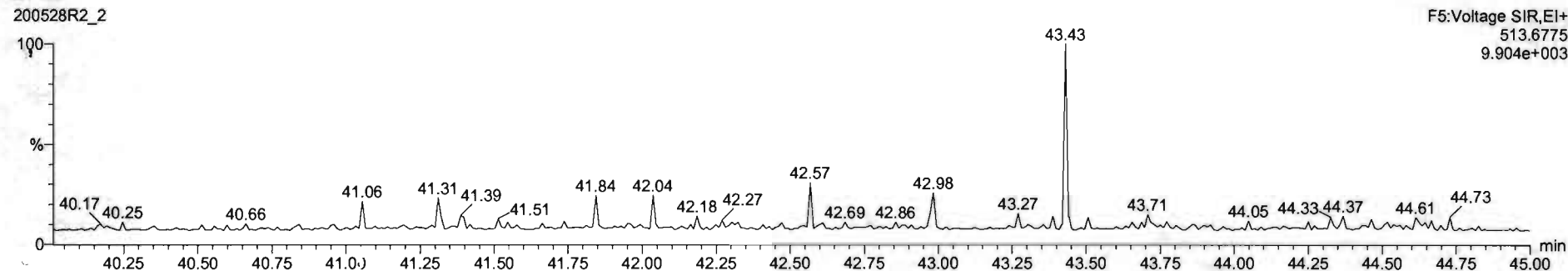
**OCDF**



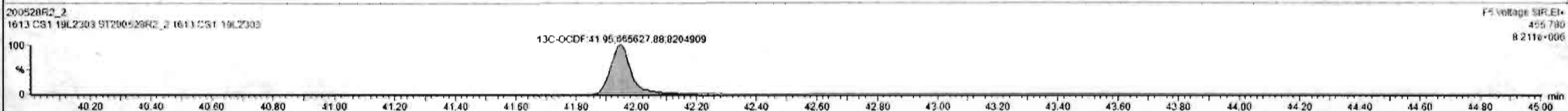
**13C-OCDF**



**DPE5**



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.69e3	0.78	NO	0.8883	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2 1,2,3,7,8-PeCDD	2.12e4	0.64	NO	0.9081	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3 1,2,3,4,7,8-HxCDD	1.85e4	1.27	NO	1.0334	1.000	24.85	1.000	2.53	101	0.0774	2.53
4 1,2,3,6,7,8-HxCDD	1.96e4	1.25	NO	0.8923	1.000	24.99	1.001	2.47	96.9	0.0747	2.47
5 1,2,3,7,8,9-HxCDD	1.62e4	1.21	NO	0.8869	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6 1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8638	1.000	36.81	1.001	2.33	92.3	0.0613	2.33
7 OCDD	2.39e4	0.83	NO	0.9136	1.000	41.77	1.000	4.97	99.4	0.148	4.97
8 2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.488	97.7	0.0670	0.488
9 1,2,3,7,8-PeCDF	3.09e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10 2,3,4,7,8-PeCDF	3.19e4	1.55	NO	0.9348	1.000	31.21	1.000	2.52	101	0.0395	2.52
11 1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8845	1.000	33.99	1.000	2.41	96.3	0.0665	2.41
12 1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.8892	1.000	34.12	1.000	2.50	100	0.0642	2.50
13 2,3,4,6,7,8-HxCDF	1.93e4	1.28	NO	0.9341	1.000	34.21	1.001	2.38	95.3	0.0702	2.38
14 1,2,3,7,8,9-HxCDF	1.42e4	1.12	NO	0.8707	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15 1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16 1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0126	1.000	39.33	1.000	2.33	93.3	0.0630	2.33
17 OCDF	2.40e4	0.84	NO	0.8085	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18 13C-2,3,7,8-TCDD	1.29e0	0.79	NO	1.1563	1.000	26.54	1.025	39.3	89.8	0.0926	
19 13C-1,2,3,7,8-PeCDD	9.36e5	0.63	NO	0.8490	1.000	31.50	1.216	88.7	88.7	0.113	
20 13C-1,2,3,4,7,8-HxCDD	5.46e5	1.28	NO	0.7790	1.000	24.87	1.014	85.9	85.9	0.183	
21 13C-1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0187	1.000	34.96	1.017	87.7	87.7	0.140	



Custom Reporting: Select reports to generate.

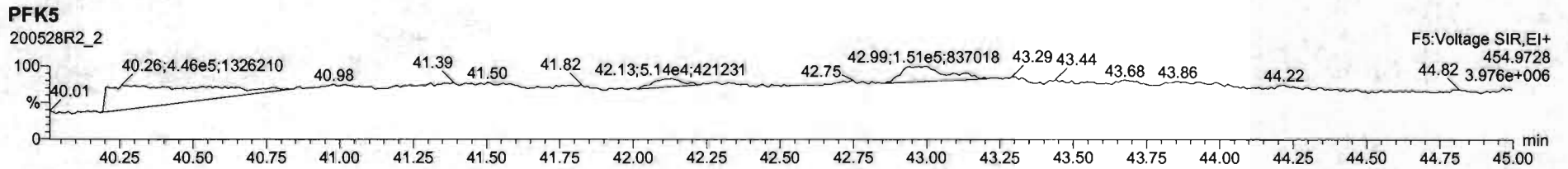
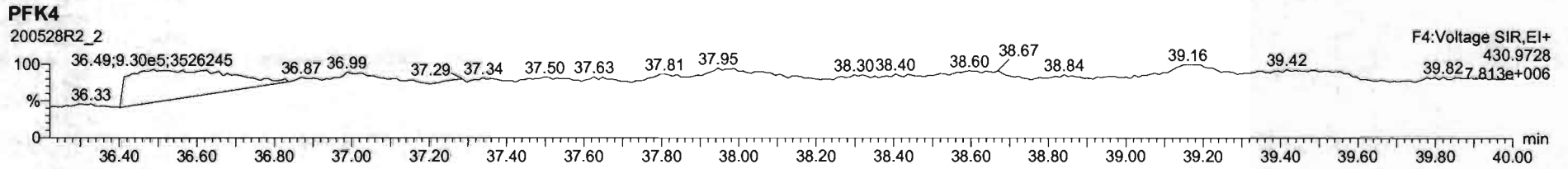
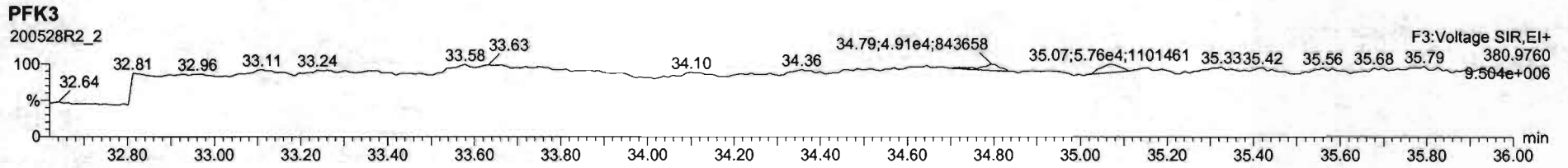
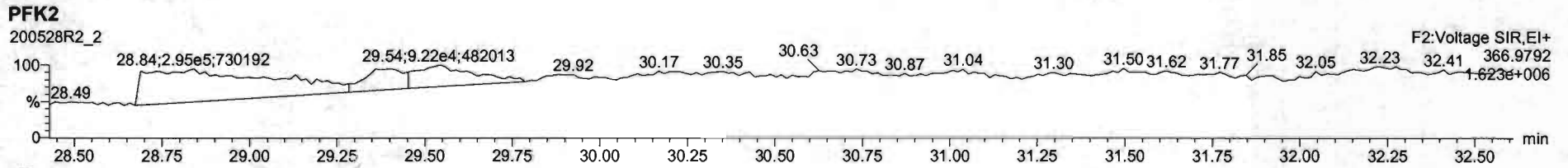
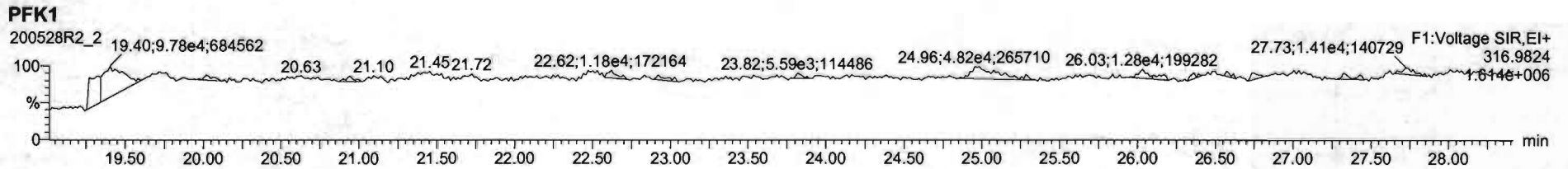
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

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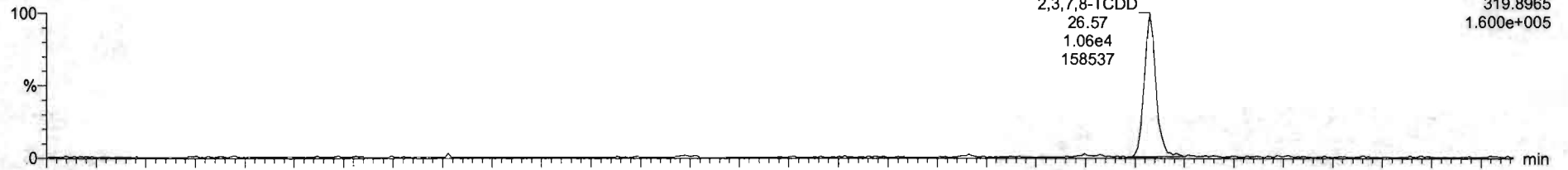
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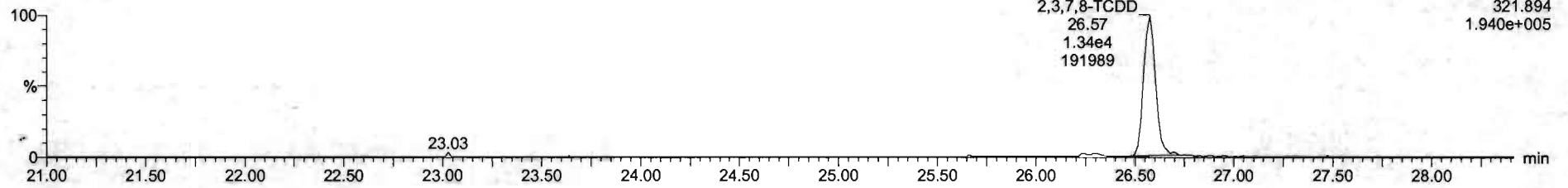
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**2,3,7,8-TCDD**

200528R2\_3

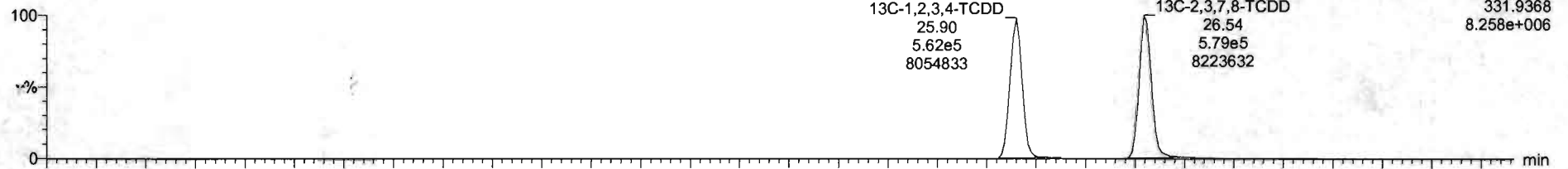


200528R2\_3

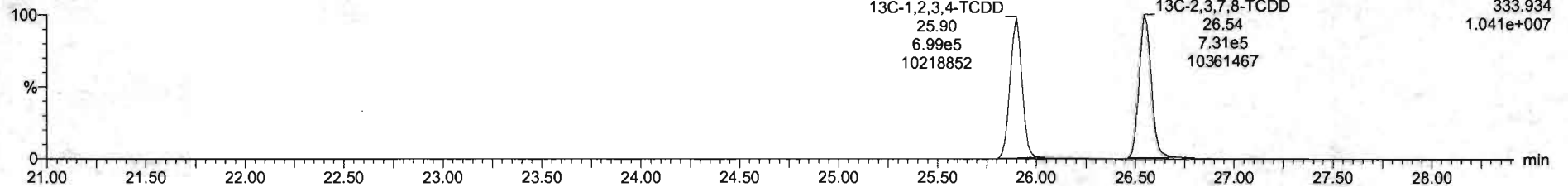


**13C-2,3,7,8-TCDD**

200528R2\_3



200528R2\_3



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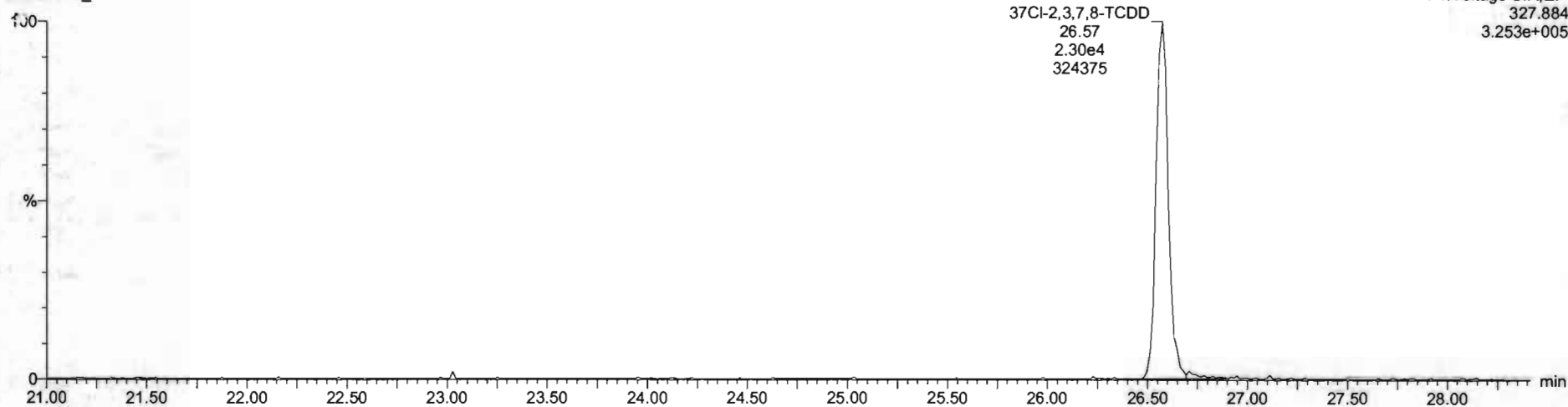
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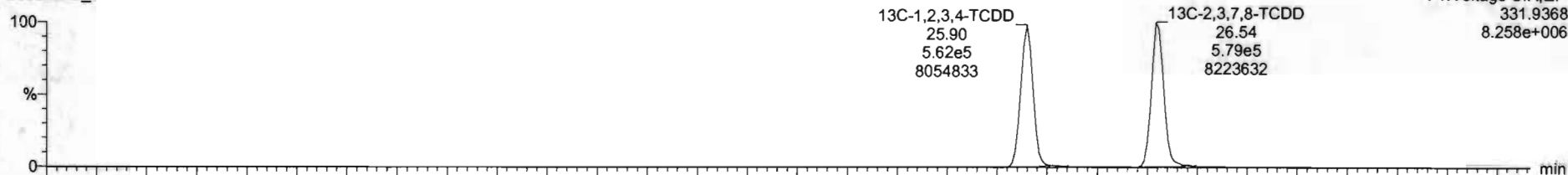
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200528R2\_3

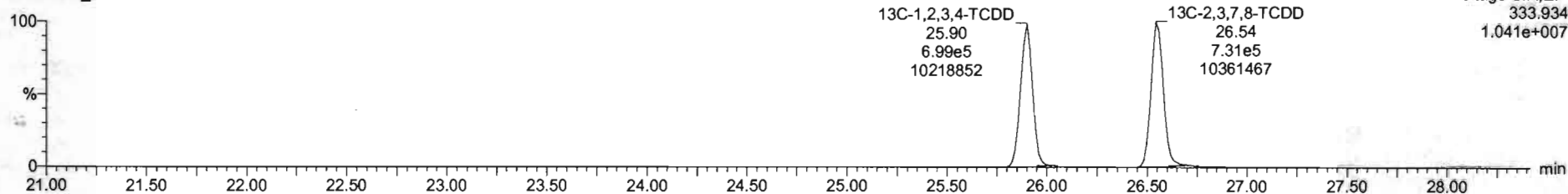


**13C-1,2,3,4-TCDD**

200528R2\_3



200528R2\_3



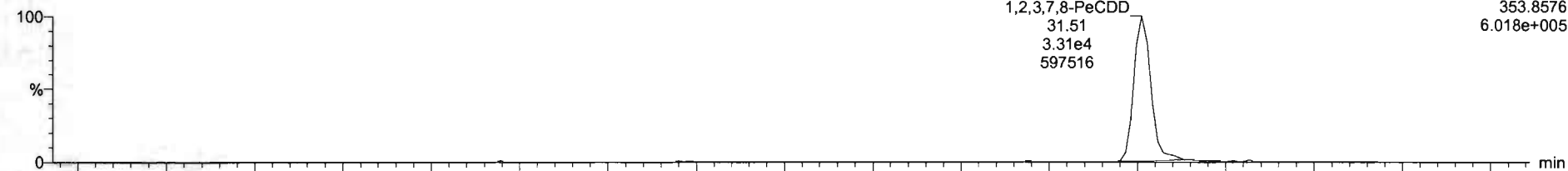
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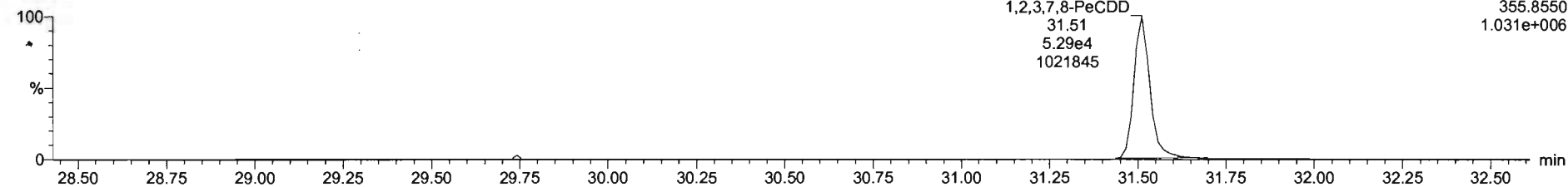
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**1,2,3,7,8-PeCDD**

200528R2\_3

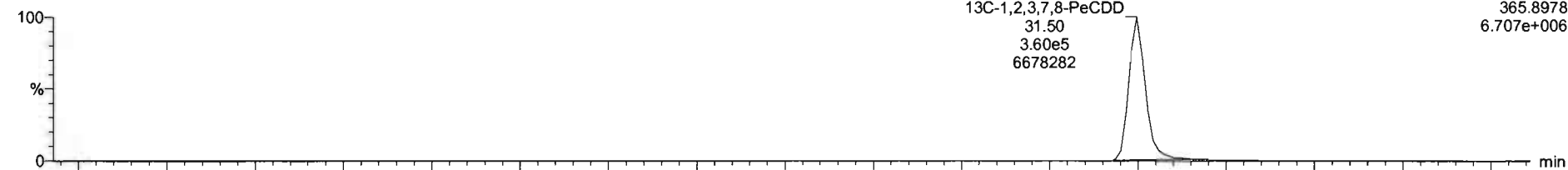


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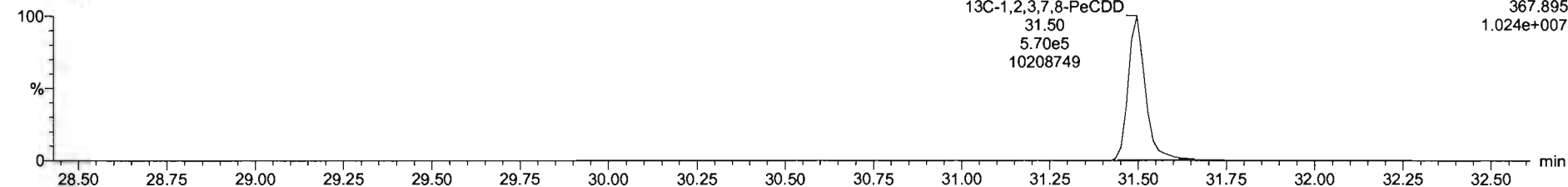


**13C-1,2,3,7,8-PeCDD**

200528R2\_3



200528R2\_3



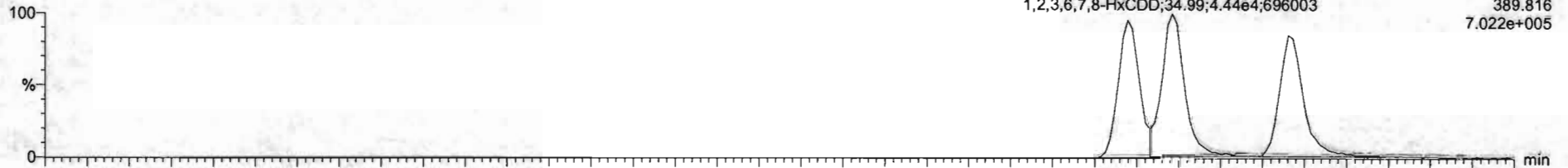
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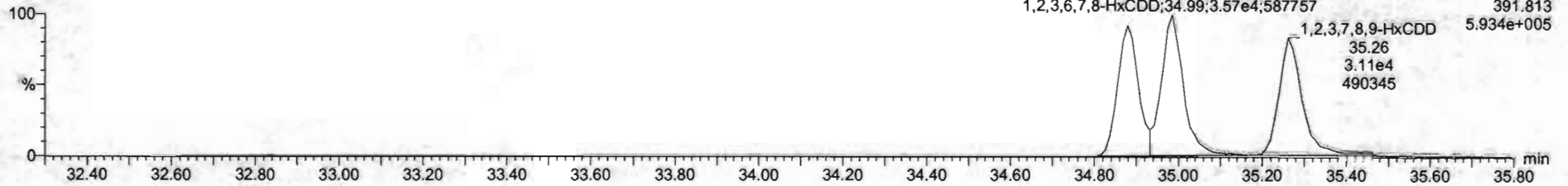
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1,2,3,4,7,8-HxCDD

200528R2\_3

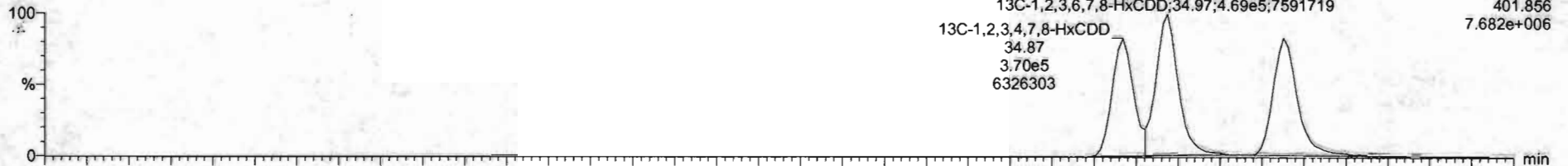


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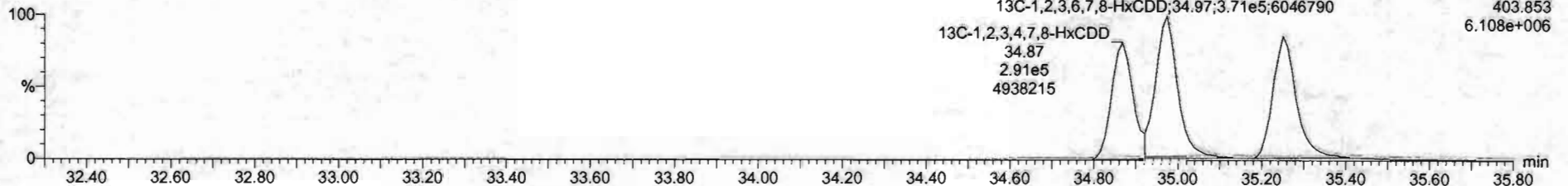


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200528R2\_3



200528R2\_3



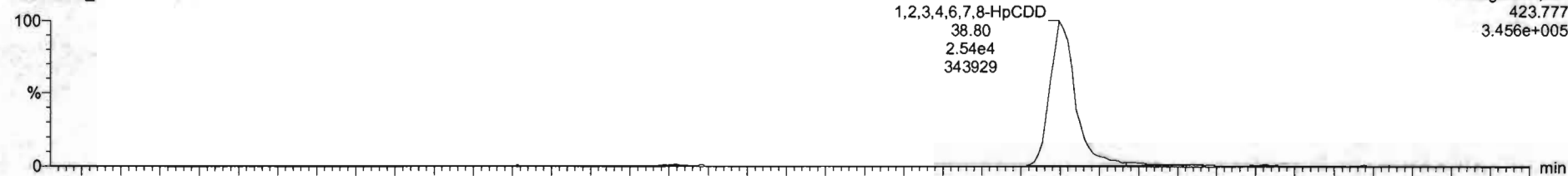
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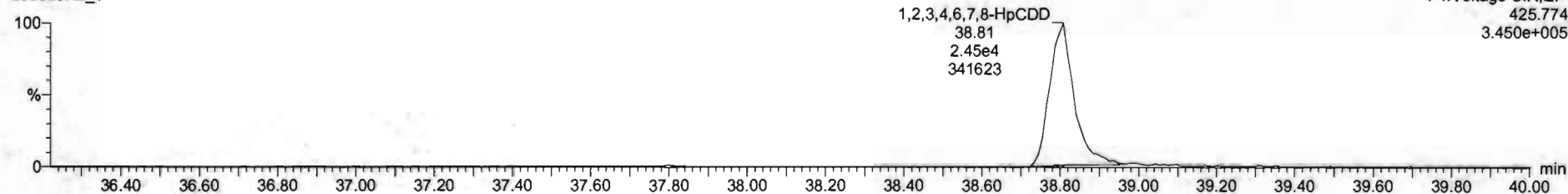
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**1,2,3,4,6,7,8-HpCDD**

200528R2\_3

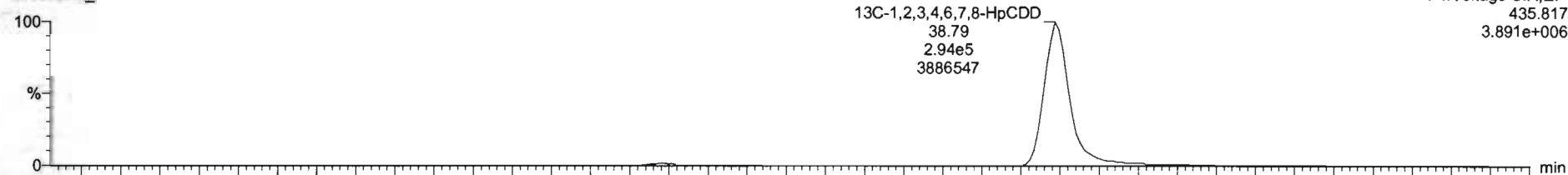


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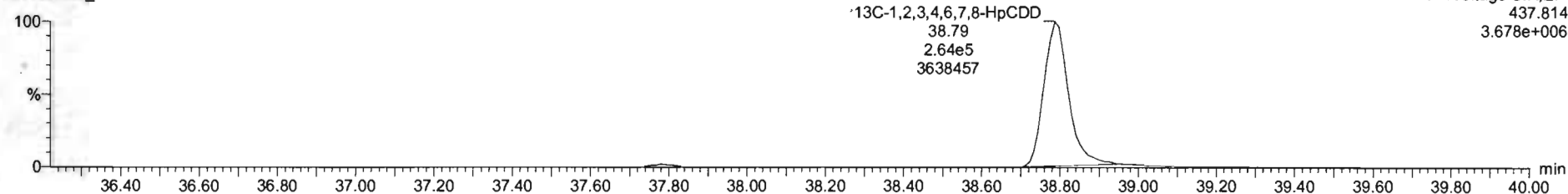


**13C-1,2,3,4,6,7,8-HpCDD**

200528R2\_3



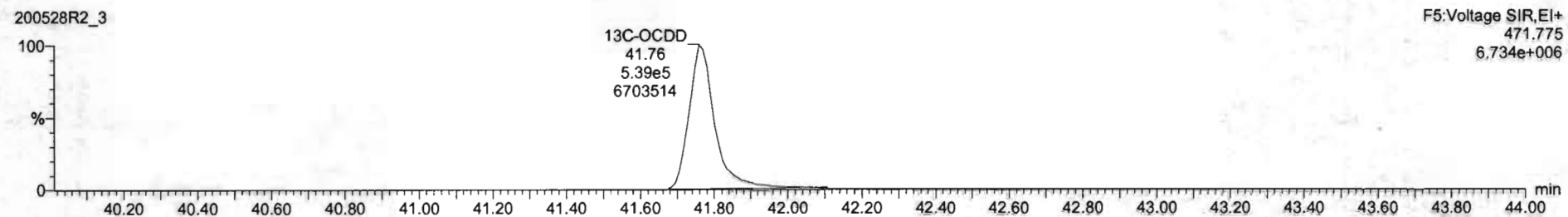
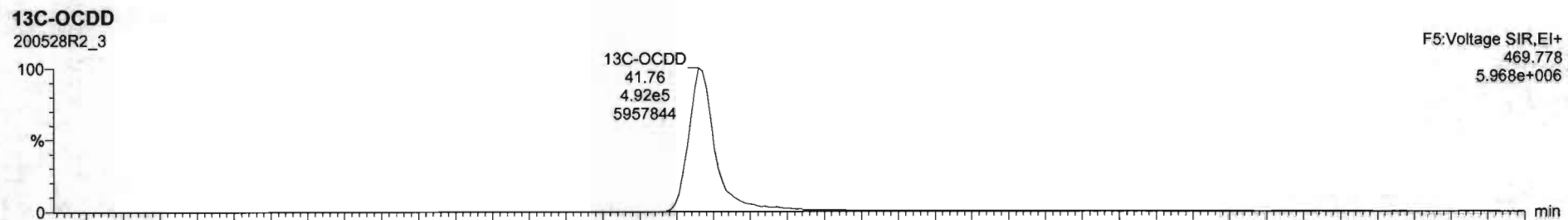
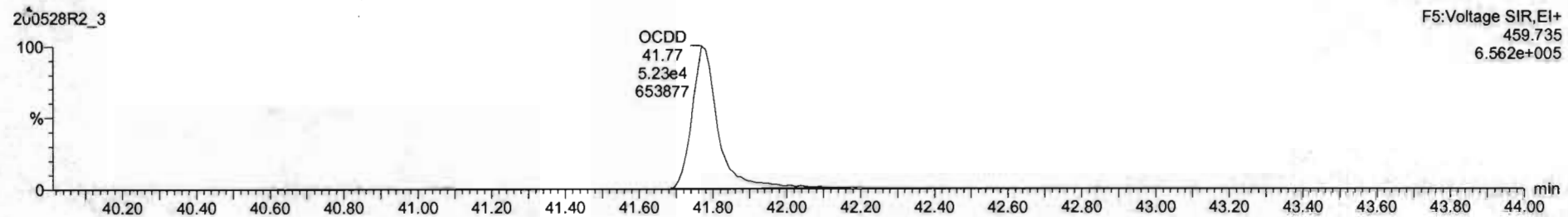
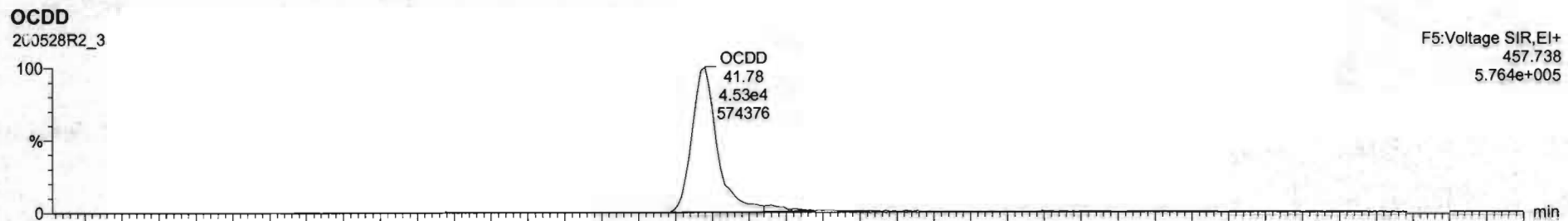
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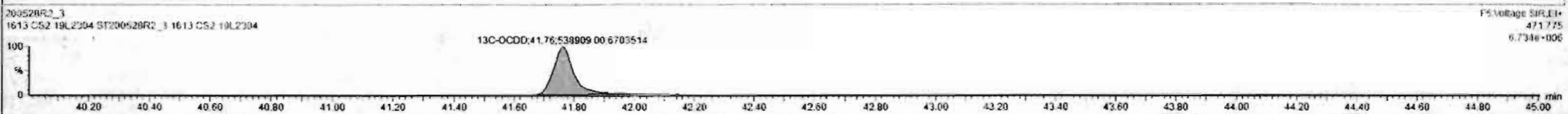
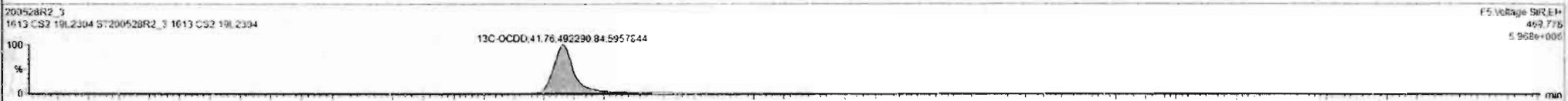
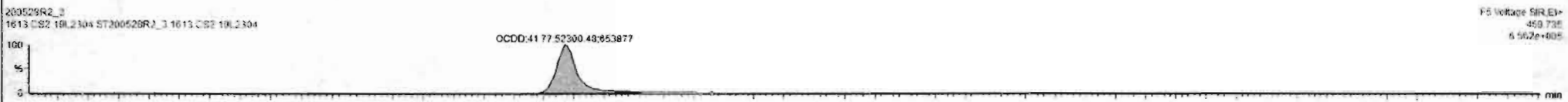
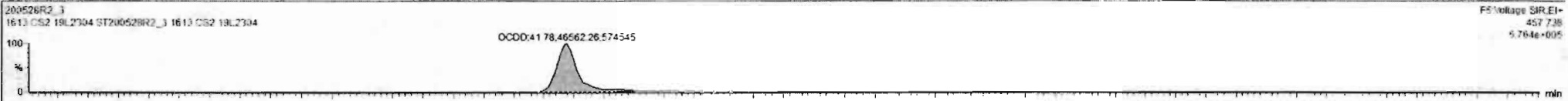
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Name: 200528R2\_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304





Name	Resp	RA	n/y	RHF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.40e4	0.30	NO	0.8983	1.000	26.57	1.001	2.05	103	0.0278	2.96
2 1,2,3,7,8-PeCDD	5.50e4	0.63	NO	0.9081	1.000	31.51	1.000	10.2	102	0.0400	10.2
3 1,2,3,4,7,8-HxCDD	6.94e4	1.24	NO	1.0324	1.000	34.88	1.000	10.2	102	0.0561	10.2
4 1,2,3,6,7,8-HxCDD	6.01e4	1.24	NO	0.8523	1.000	34.99	1.000	10.7	107	0.0559	10.7
5 1,2,3,7,8,9-HxCDD	7.01e4	1.26	NO	0.8265	1.000	35.26	1.000	10.5	105	0.0679	10.5
6 1,2,3,4,6,7,8-HpCDD	4.59e4	1.93	NO	0.8639	1.000	38.50	1.000	10.4	104	0.0797	10.4
7 OCDD	9.65e4	0.39	NO	0.9136	1.000	41.76	1.000	21.0	105	0.109	21.0
8 2,3,7,8-TCDF	2.67e4	0.74	NO	0.7510	1.000	26.88	1.001	1.97	96.6	0.0321	1.97
9 1,2,3,7,8-PeCDF	1.31e5	1.55	NO	0.8925	1.000	30.23	1.000	10.7	107	0.0517	10.7
10 2,3,4,7,8-PeCDF	1.34e5	1.55	NO	0.9346	1.000	31.21	1.000	10.4	104	0.0475	10.4
11 1,2,3,4,7,8-HxCDF	7.91e4	1.22	NO	0.8545	1.000	34.81	1.001	10.6	106	0.0661	10.6
12 1,2,3,6,7,8-HxCDF	5.20e4	1.28	NO	0.8892	1.000	34.12	1.000	10.3	103	0.0595	10.3
13 2,3,4,6,7,8-HxCDF	6.53e4	1.25	NO	0.9341	1.000	34.71	1.000	10.5	105	0.0660	10.5
14 1,2,3,7,8,9-HxCDF	6.49e4	1.24	NO	0.8707	1.000	35.62	1.000	10.3	103	0.0961	10.3
15 1,2,3,4,6,7,8-HpCDF	5.72e4	1.00	NO	0.6734	1.000	37.40	1.001	10.1	101	0.0828	10.1
16 1,2,3,4,7,8,9-HpCDF	4.43e4	1.91	NO	1.0128	1.000	39.34	1.000	10.4	104	0.0861	10.4
17 OCDF	3.85e4	0.66	NO	0.8085	1.000	41.96	1.000	20.6	103	0.0967	20.6
18 13C-2,3,7,8-TCDD	1.31e6	0.79	NO	1.1583	1.000	26.54	1.025	29.3	89.6	0.0659	
19 13C-1,2,3,7,8-PeCDD	9.29e5	0.63	NO	0.8450	1.000	31.50	1.216	86.8	86.8	0.123	
20 13C-1,2,3,4,7,8-HxCDD	6.61e5	1.27	NO	0.7790	1.000	34.87	1.014	87.0	87.0	0.189	
21 13C-1,2,3,6,7,8-HxCDD	6.39e5	1.26	NO	1.0167	1.000	34.97	1.017	84.7	84.7	0.145	



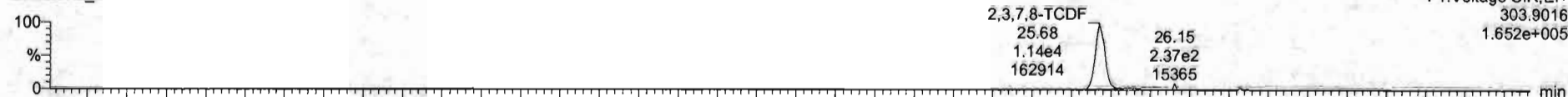
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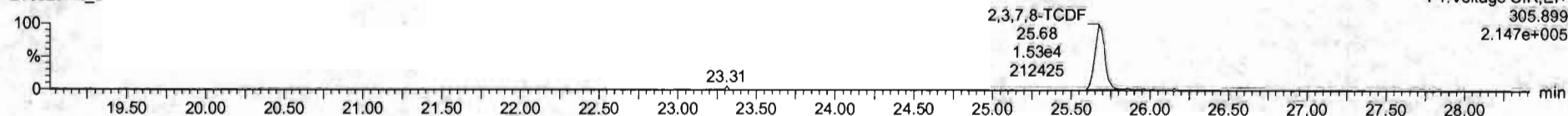
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**2,3,7,8-TCDF**

200528R2\_3

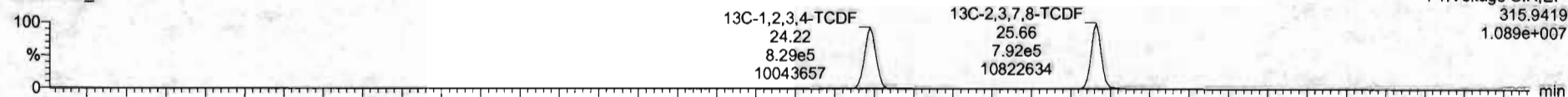


200528R2\_3

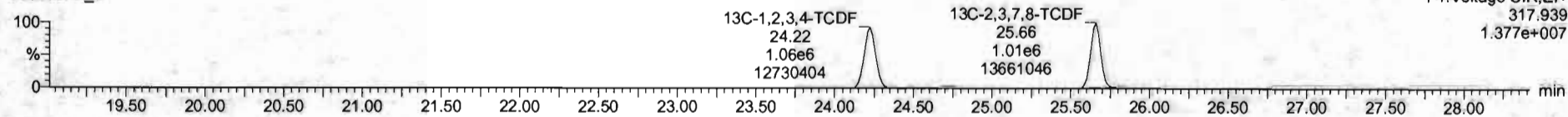


**13C-2,3,7,8-TCDF**

200528R2\_3

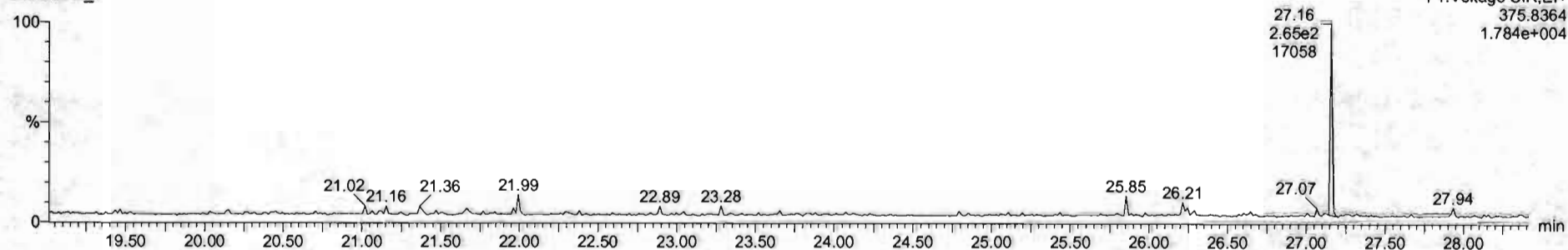


200528R2\_3



**DPE1**

200528R2\_3



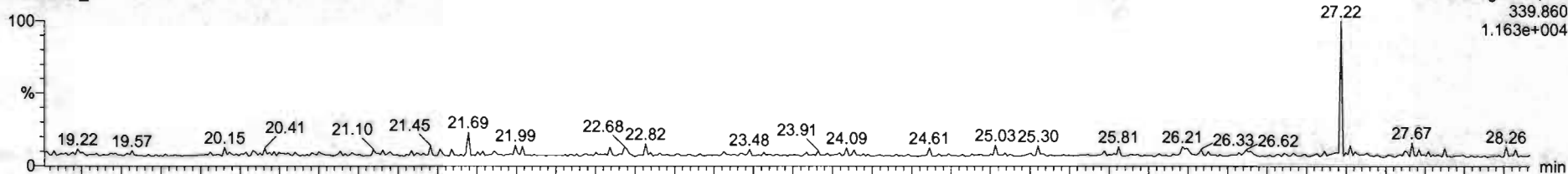
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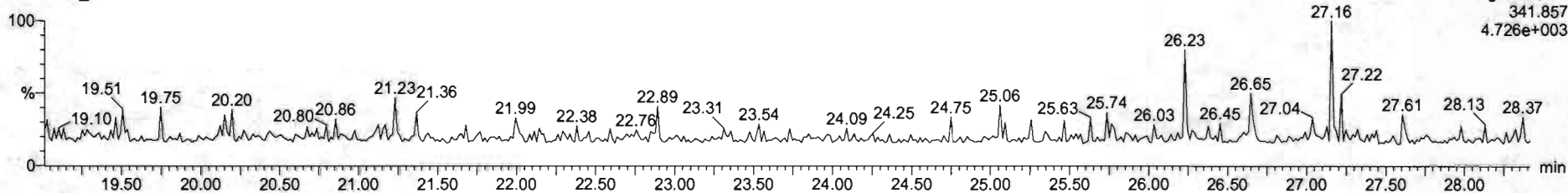
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1st Func. Penta-Furans

200528R2\_3

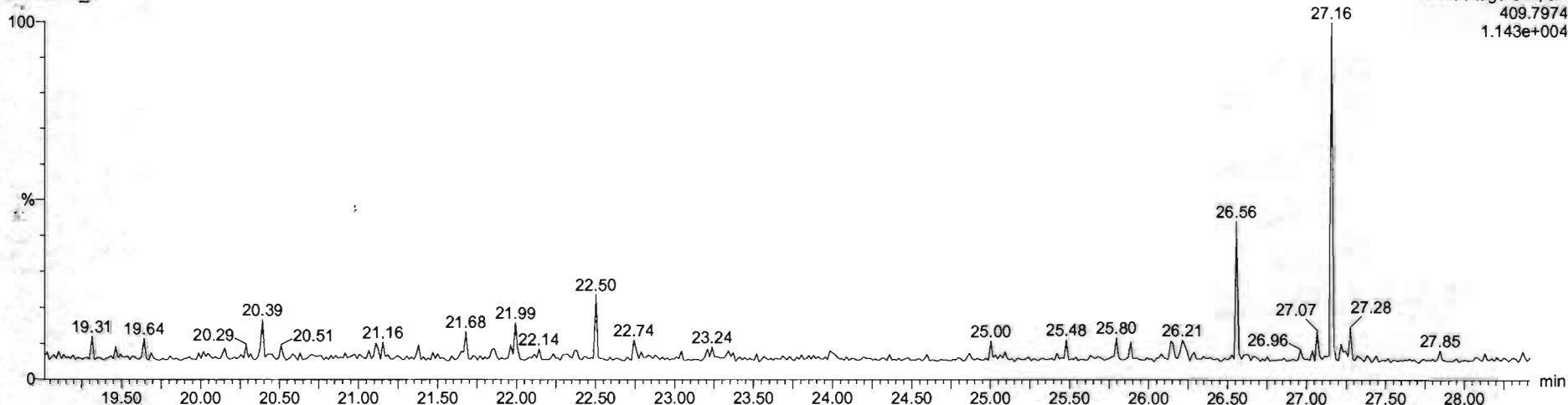


200528R2\_3



DPE6

200528R2\_3



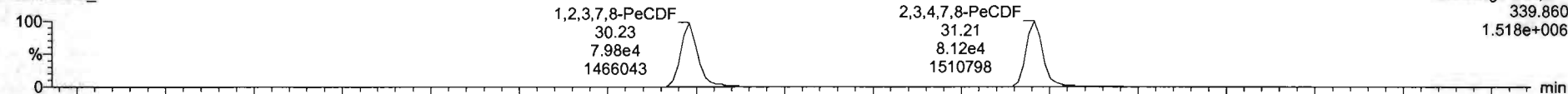
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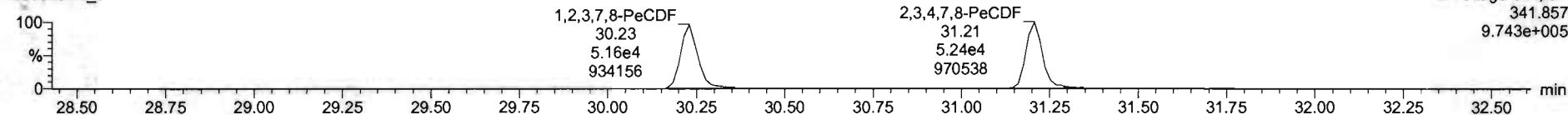
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**1,2,3,7,8-PeCDF**

200528R2\_3

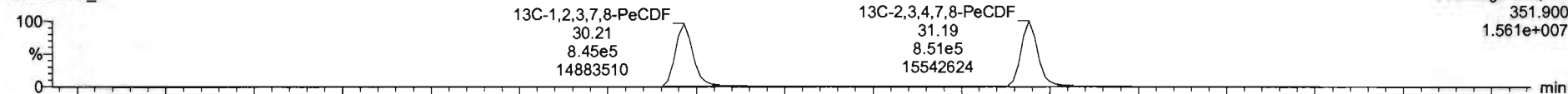


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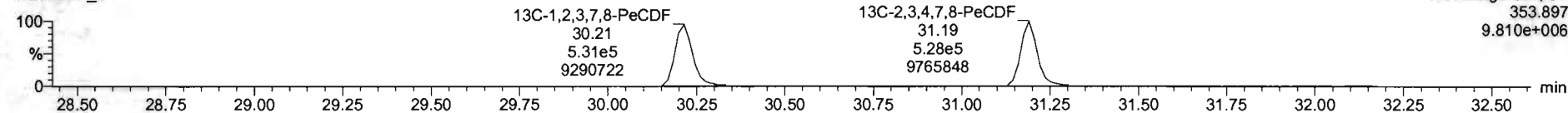


**13C-1,2,3,7,8-PeCDF**

200528R2\_3

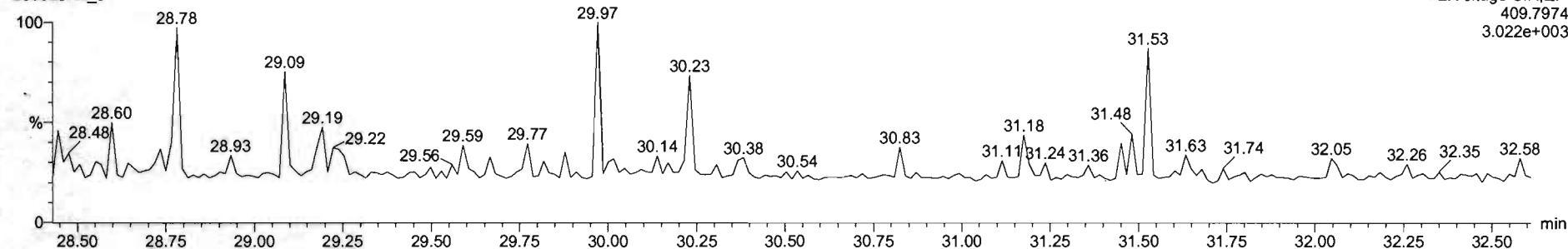


200528R2\_3



**DPE2**

200528R2\_3



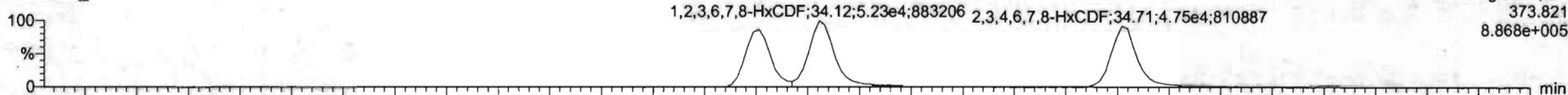
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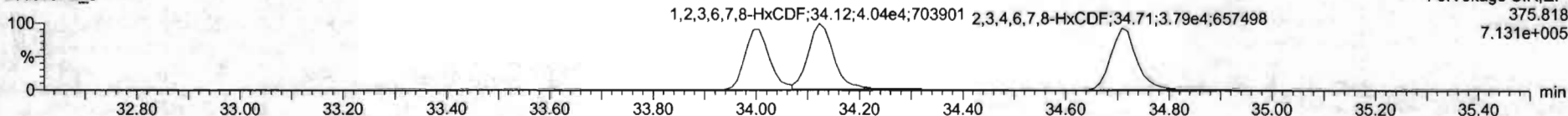
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**1,2,3,4,7,8-HxCDF**

200528R2\_3

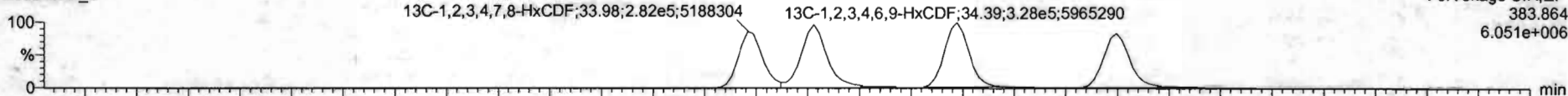


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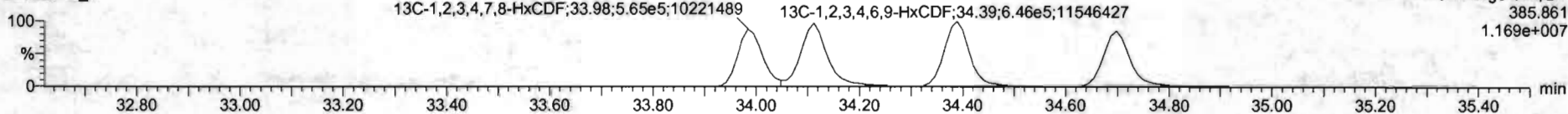


**13C-1,2,3,4,7,8-HxCDF**

200528R2\_3

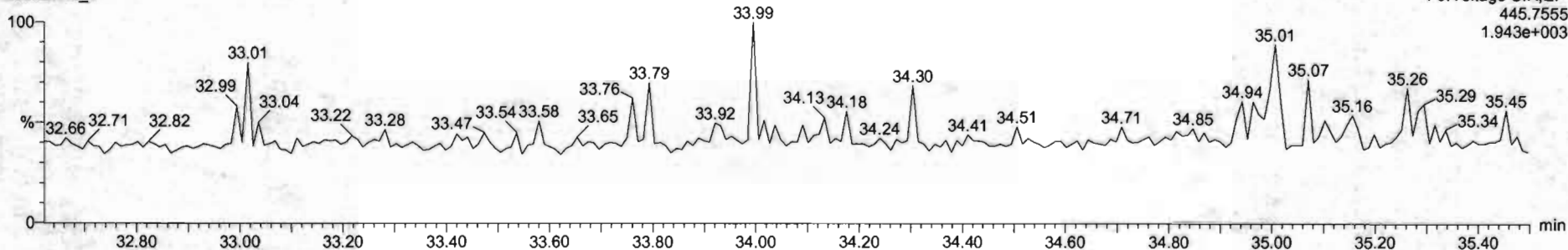


200528R2\_3



**DPE3**

200528R2\_3





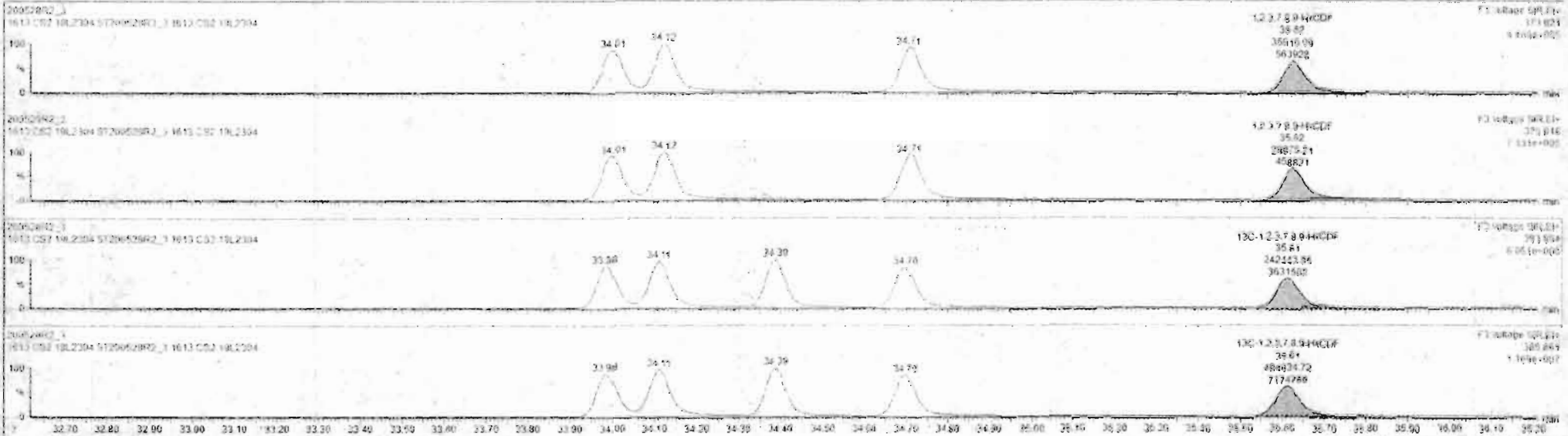
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1	1,2,3,6,7-CDD	2.58e4	0.39	NO	0.8803	1.000	20.07	1.001	2.08	103	0.0070	2.08
2	1,2,3,7,8-PeCDD	5.58e4	0.43	NO	0.9051	1.000	31.51	1.000	10.2	102	0.0400	10.2
3	1,2,3,4,7,8-HxCDD	5.94e4	1.24	NO	1.0334	1.000	34.88	1.000	16.2	102	0.0501	16.2
4	1,2,3,7,8-HxCDD	6.01e4	1.24	NO	0.8923	1.000	34.95	1.000	16.7	107	0.0559	16.7
5	1,2,3,7,8,9-HxCDD	7.01e4	1.26	NO	0.9269	1.000	35.26	1.000	16.1	105	0.0670	16.1
6	1,2,3,4,7,8-HpCDD	1.99e4	1.02	NO	0.8839	1.000	39.80	1.000	18.4	104	0.0797	18.4
7	OCDD	9.89e4	0.39	NO	0.9136	1.000	41.75	1.000	21.0	105	0.1169	21.0
8	1,2,3,6,7,8-PeCDF	2.87e4	0.74	NO	0.7510	1.000	35.60	1.001	1.91	98.8	0.0511	1.91
9	1,2,3,7,8-PeCDF	1.31e5	1.58	NO	0.8025	1.000	36.23	1.000	10.7	107	0.0517	10.7
10	1,2,3,4,7,8-HxCDF	1.34e4	1.55	NO	0.9346	1.000	31.21	1.000	10.4	104	0.0475	10.4
11	1,2,3,7,8-HxCDF	7.91e4	1.22	NO	0.8545	1.000	34.01	1.001	10.5	106	0.0611	10.4
12	1,2,3,6,7,8-HpCDF	9.26e4	1.28	NO	0.8852	1.000	34.12	1.000	17.3	103	0.0595	17.3
13	1,2,3,4,7,8-HpCDF	8.03e4	1.21	NO	0.9191	1.000	34.71	1.000	10.5	105	0.0693	10.5
14	1,2,3,7,8,9-HpCDF	6.49e4	1.24	NO	0.9707	1.000	35.62	1.000	10.3	102	0.0911	10.3
15	1,2,3,4,7,8-HpCDF	3.72e4	1.00	NO	0.8734	1.000	37.40	1.001	10.1	101	0.0828	10.1
16	1,2,3,4,7,8,9-HpCDF	4.43e4	1.01	NO	1.0128	1.000	39.34	1.000	10.4	104	0.0881	10.4
17	OCDF	5.58e4	0.36	NO	0.8585	1.000	41.90	1.000	26.3	103	0.0967	26.3
18	1,2,3,7,8-PeCDD	1.31e5	0.79	NO	1.1562	1.000	26.34	1.025	39.0	39.8	0.0819	39.0
19	1,2,3,7,8-PeCDF	9.26e4	0.63	NO	0.8499	1.000	31.50	1.216	98.0	98.1	0.123	98.0
20	1,2,3,4,7,8-HpCDD	8.61e4	1.27	NO	0.7790	1.000	24.97	1.014	37.0	37.2	0.149	37.0
21	1,2,3,6,7,8-HpCDD	8.19e4	1.38	NO	1.0167	1.000	24.97	1.017	64.7	64.7	0.146	64.7







S#	Name	Range	ISA	Qty	RFP	wtVol	RT	RRT	Conc	%Rec	DI	EMPC
1	1,2,3,7,8-HxCDD	2.48e4	0.30	NO	0.8853	1.000	26.17	1.001	3.28	101	0.0078	2.01
2	1,2,3,7,8-PeCDD	5.55e4	0.80	NO	0.9041	1.000	31.21	1.002	10.2	102	0.0430	12.2
3	1,2,3,4,7,8-HxCDD	5.94e4	1.24	NO	1.0334	1.000	34.00	1.000	10.2	102	0.0511	10.2
4	1,2,3,6,7,8-HxCDD	1.01e4	1.24	NO	0.8921	1.000	34.99	1.000	10.7	101	0.0569	10.7
5	1,2,3,7,8,9-HxCDD	7.51e4	1.25	NO	0.8905	1.000	35.20	1.000	10.5	101	0.0670	10.5
6	1,2,3,4,6,7,8-HpCDD	4.99e4	1.03	NO	0.8838	1.000	28.00	1.000	10.4	104	0.0191	10.4
7	COCDD	3.89e4	0.89	NO	0.9130	1.000	41.75	1.000	21.0	105	0.1005	21.0
8	1,2,3,7,8-TCDF	2.87e4	0.74	NO	0.7510	1.000	25.09	1.001	1.91	98.6	0.0231	1.91
9	1,2,3,7,8-PeCDF	1.31e4	1.55	NO	0.9225	1.000	30.21	1.000	10.7	101	0.0517	10.7
10	1,2,3,4,7,8-HxCDF	1.38e4	1.55	NO	0.9245	1.000	31.21	1.000	10.5	104	0.0475	10.4
11	1,2,3,4,7,8-HxCDF	7.91e4	1.22	NO	0.8545	1.000	34.01	1.001	10.5	100	0.0503	10.5
12	1,2,3,6,7,8-HxCDF	4.26e4	1.25	NO	0.9092	1.000	34.12	1.000	10.2	103	0.0595	10.2
13	1,2,3,6,7,8-HxCDF	8.51e4	1.25	NO	0.9341	1.000	34.71	1.000	10.3	105	0.0600	10.5
14	1,2,3,7,8,9-HxCDF	6.49e4	1.24	NO	0.8787	1.000	35.81	1.000	10.3	102	0.0501	10.3
15	1,2,3,4,6,7,8-HpCDF	1.72e4	1.00	NO	0.8734	1.000	37.40	1.001	10.1	101	0.0820	10.1
16	1,2,3,4,7,8,9-HpCDF	4.43e4	1.01	NO	0.9128	1.000	39.38	1.000	10.4	104	0.0601	10.4
17	OCDF	3.66e4	0.60	NO	0.8985	1.000	41.96	1.000	25.4	103	0.0963	25.4
18	1,2,3,4,6,7,8,9-TCDF	1.31e4	0.79	NO	1.1560	1.000	26.54	1.025	19.0	89.5	0.0663	
19	1,2,3,6,7,8,9-HxCDF	9.29e4	0.83	NO	0.9420	1.000	31.08	1.216	68.0	66.8	0.1231	
20	1,2,3,4,7,8,9-HpCDD	2.61e4	1.27	NO	0.7798	1.000	34.07	1.034	57.0	87.0	0.1591	
21	1,2,3,4,6,7,8-HpCDD	6.20e4	1.26	NO	1.0187	1.000	24.97	1.017	34.7	34.7	0.1451	



Custom Reporting: Select reports to generate

20052002\_3 CAP NLSM

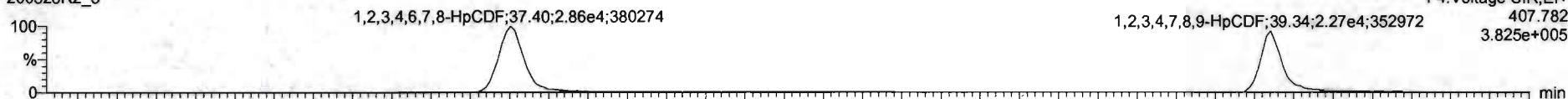
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

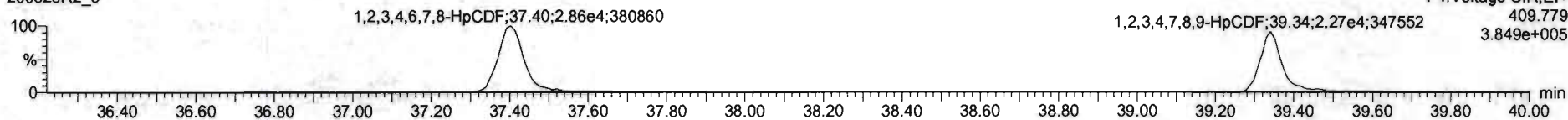
Name: 200528R2\_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200528R2\_3

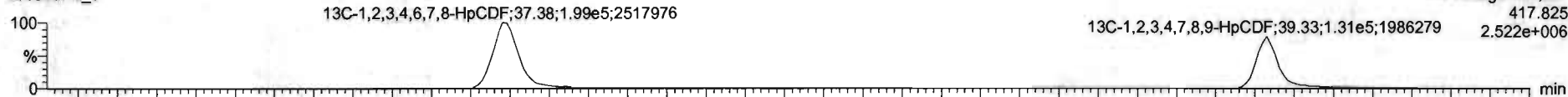


200528R2\_3

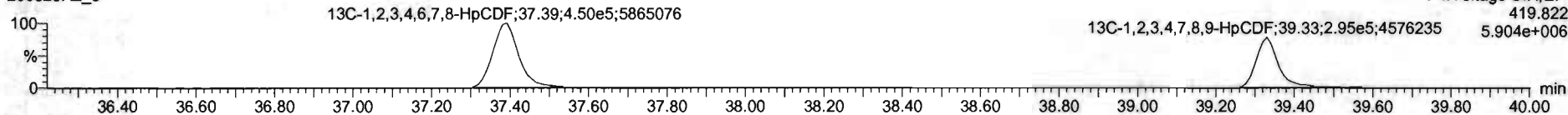


**13C-1,2,3,4,6,7,8-HpCDF**

200528R2\_3

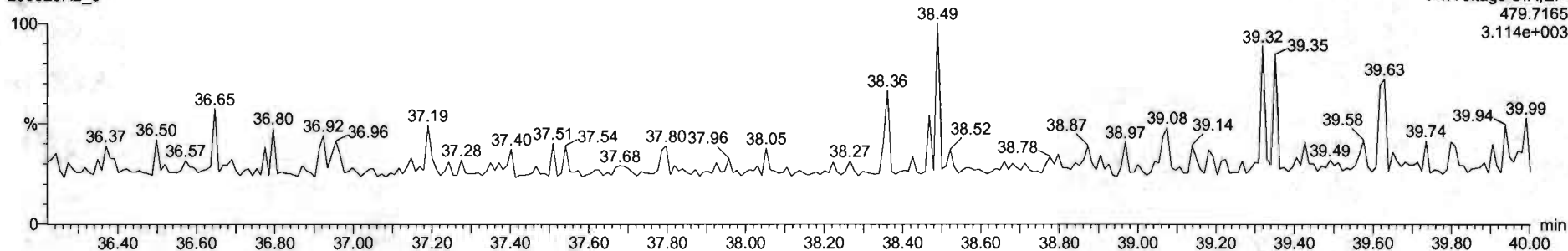


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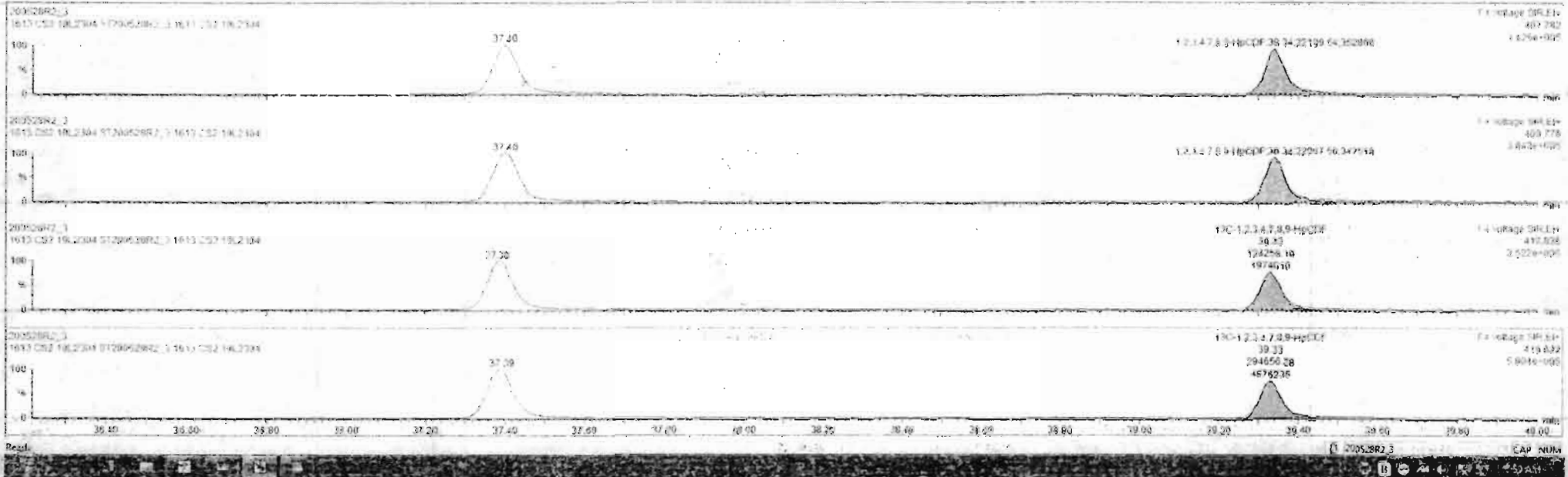
**DPE4**

200528R2\_3





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1	1,2,3,6-TCDF	2.48e4	0.00	NO	0.8803	1.00	26.07	1.00	2.00	107	0.0276	2.30
2	1,2,3,7,8-PeCDF	1.50e4	0.03	NO	0.9091	1.00	31.01	1.00	10.0	107	0.0400	10.0
3	1,2,3,4,7,8-HxCDF	0.90e4	1.24	NO	1.0334	1.00	34.05	1.00	10.0	107	0.0501	10.0
4	1,2,3,6,7,8-HxCDF	0.01e4	1.04	NO	0.9621	1.00	34.36	1.00	10.0	107	0.0559	10.0
5	1,2,3,7,8-HxCDF	2.11e4	1.26	NO	0.8809	1.00	35.26	1.00	10.0	107	0.0579	10.0
6	1,2,3,4,6,7,8-HpCDF	1.90e4	1.02	NO	0.8639	1.00	35.90	1.00	10.0	104	0.0792	10.0
7	OCDF	0.00e4	0.00	NO	0.9106	1.00	31.75	1.00	21.0	105	0.100	21.0
8	2,3,7,8-TCDF	2.77e4	0.24	NO	0.7510	1.00	25.00	1.00	1.00	96.0	0.0101	1.00
9	1,2,3,7,8-PeCDF	1.15e4	1.90	NO	0.6902	1.00	30.23	1.00	10.0	107	0.0517	10.0
10	1,2,3,4,7,8-PeCDF	1.10e4	1.05	NO	0.9140	1.00	31.01	1.00	10.0	104	0.0475	10.0
11	1,2,3,4,7,8-HpCDF	2.91e4	1.02	NO	0.6940	1.00	34.05	1.00	10.0	106	0.0651	10.0
12	1,2,3,6,7,8-HpCDF	1.20e4	1.00	NO	0.9042	1.00	34.12	1.00	10.0	103	0.0595	10.0
13	2,3,4,7,8-HpCDF	0.50e4	1.00	NO	0.9341	1.00	34.21	1.00	10.0	105	0.0690	10.0
14	1,2,3,7,8-HpCDF	0.40e4	1.24	NO	0.9202	1.00	31.92	1.00	10.0	103	0.0601	10.0
15	1,2,3,4,6,7,8-HpCDF	1.70e4	1.00	NO	0.9234	1.00	37.40	1.00	10.0	101	0.0620	10.0
16	1,2,3,4,7,8,9-HpCDF	4.43e4	1.01	NO	1.0120	1.00	39.34	1.00	10.0	104	0.0681	10.0
17	OCDF	0.00e4	0.00	NO	0.9060	1.00	41.30	1.00	26.0	103	0.0807	26.0
18	1,2,3,4,6,7,8-NpCDF	1.31e4	0.76	NO	1.1503	1.00	26.34	1.00	50.0	98.0	0.0800	50.0
19	1,2,3,4,7,8-PeCDE	0.10e4	0.01	NO	0.9450	1.00	31.90	1.00	10.0	96.0	0.123	10.0
20	1,2,3,4,7,8-HpCDE	0.61e4	1.27	NO	0.7790	1.00	34.07	1.00	10.0	97.0	0.100	10.0
21	1,2,3,4,6,7,8-HpCDE	0.30e4	1.20	NO	1.0107	1.00	34.07	1.00	10.0	94.0	0.140	10.0

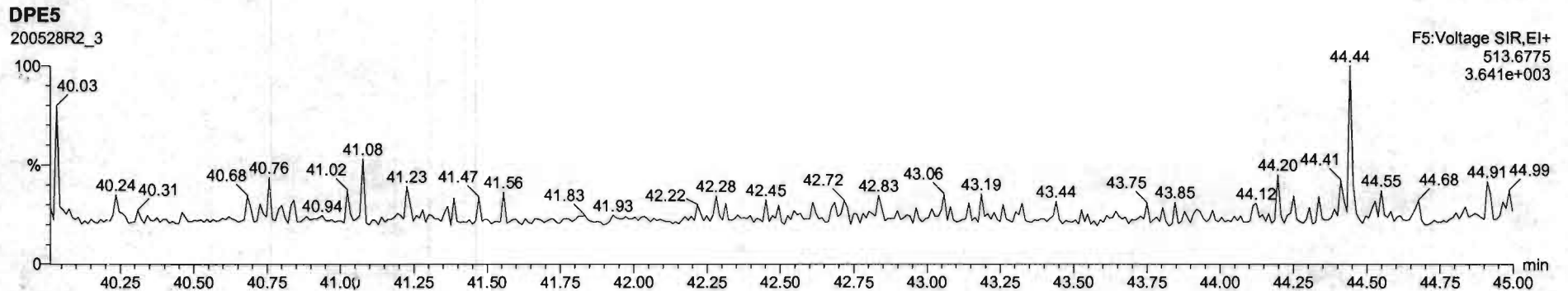
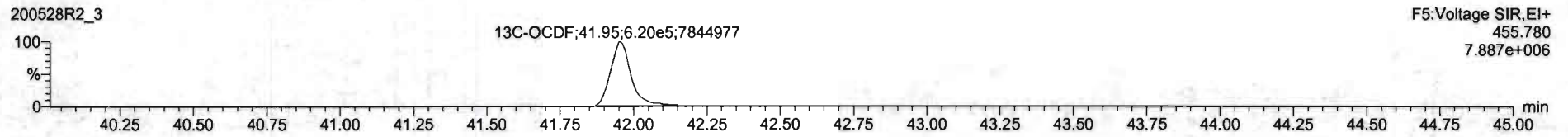
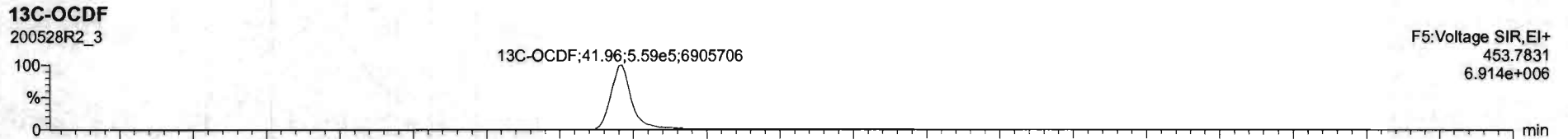
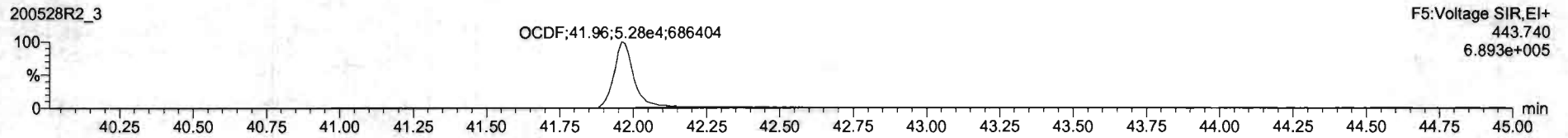
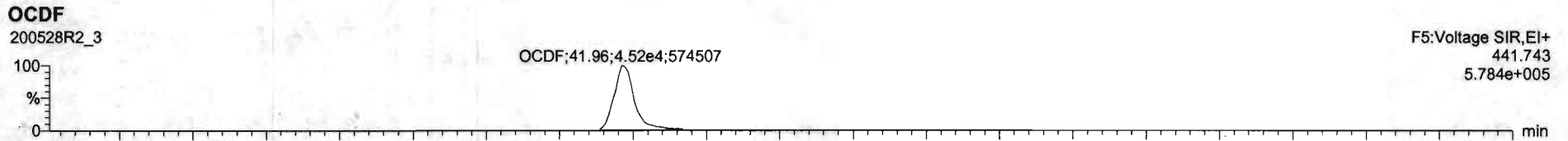




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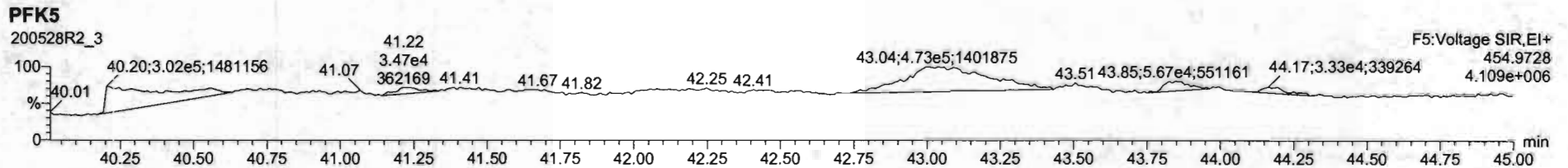
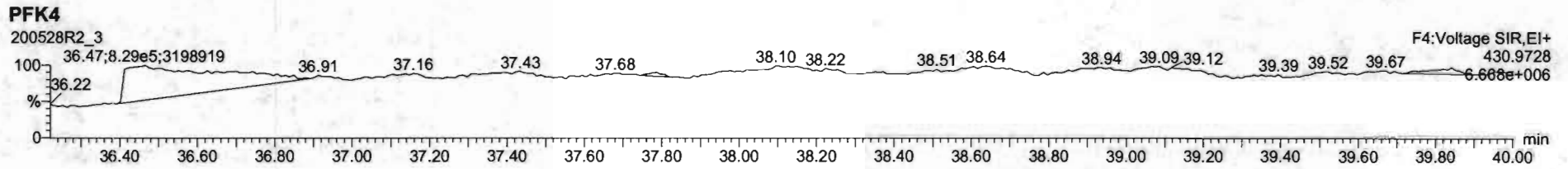
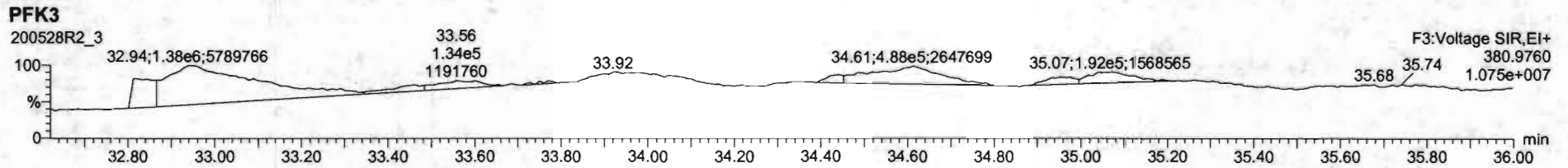
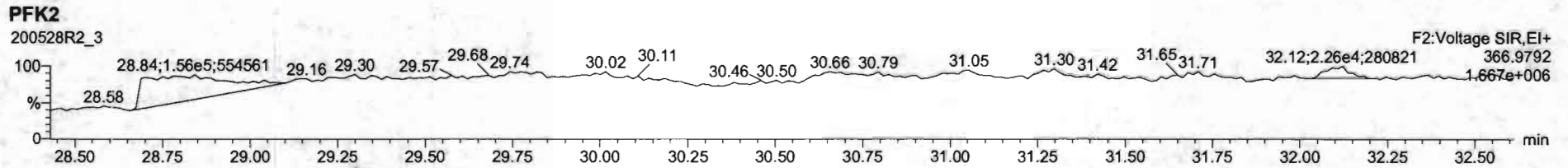
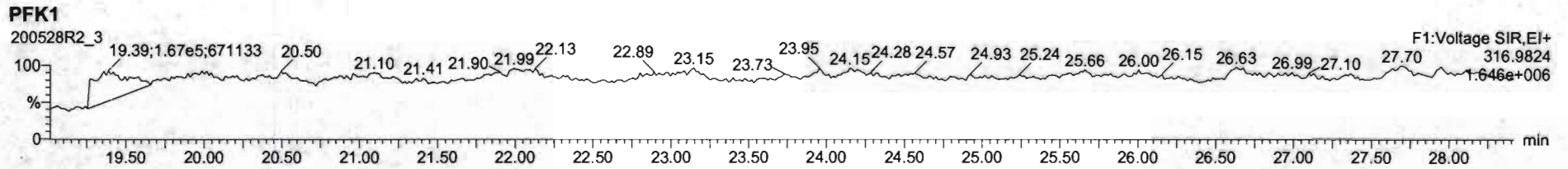


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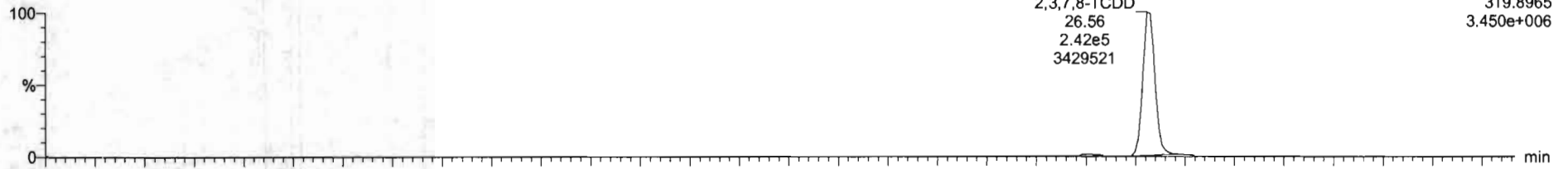
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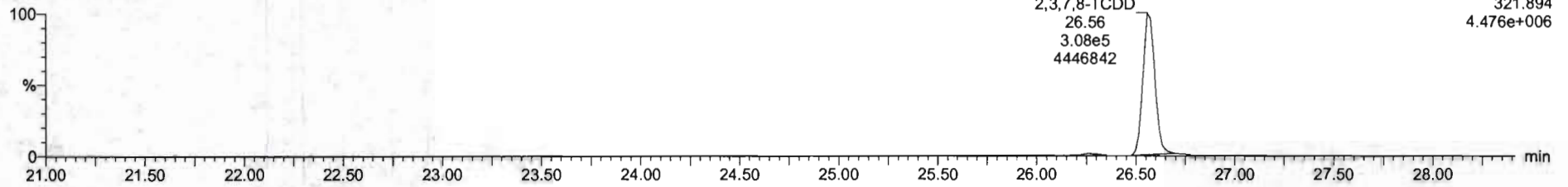
**2,3,7,8-TCDD**

200528R2\_4



F1:Voltage SIR,EI+  
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3.450e+006

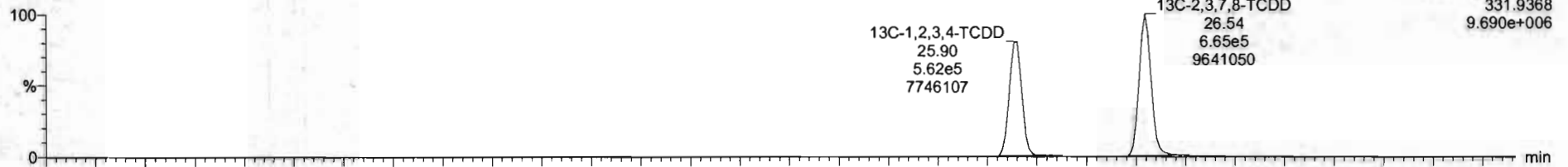
200528R2\_4



F1:Voltage SIR,EI+  
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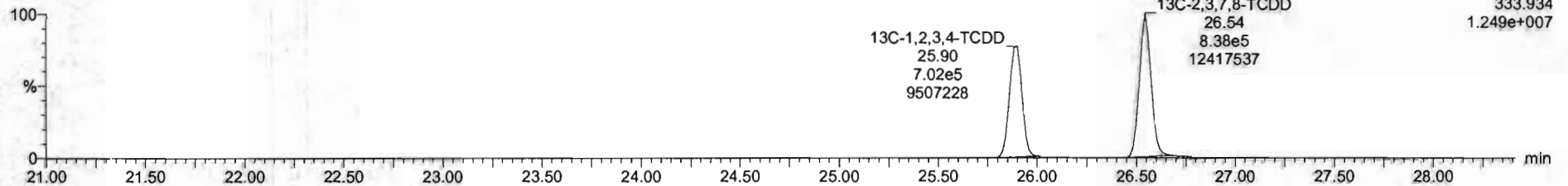
**13C-2,3,7,8-TCDD**

200528R2\_4



F1:Voltage SIR,EI+  
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9.690e+006

200528R2\_4



F1:Voltage SIR,EI+  
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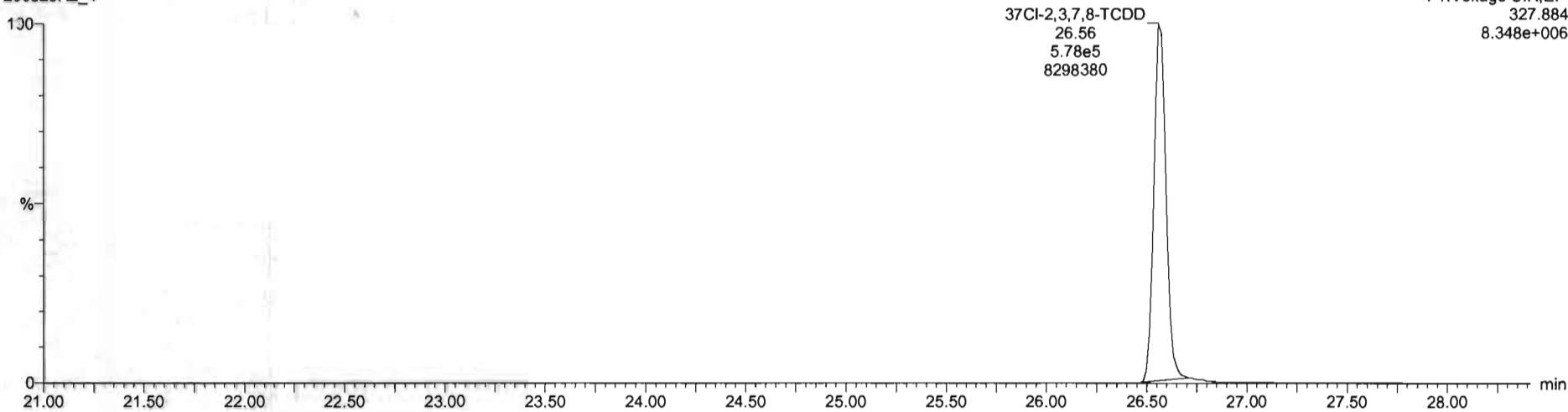
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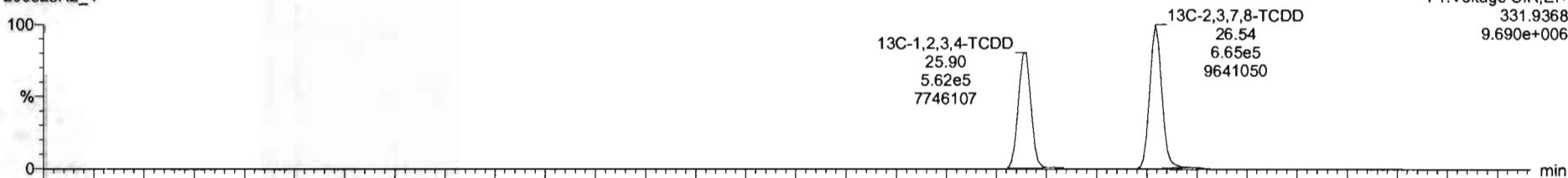
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200528R2\_4

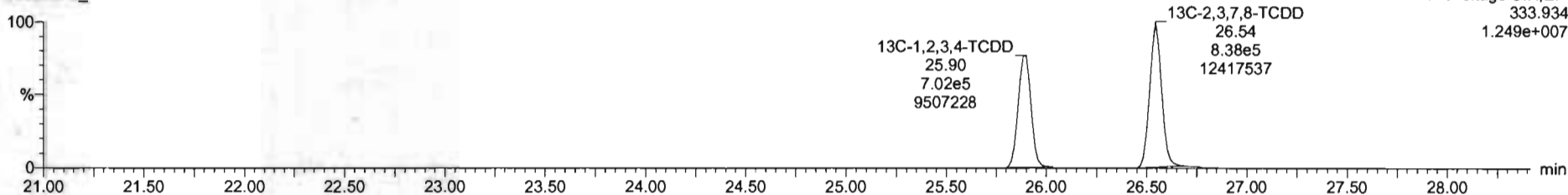


**13C-1,2,3,4-TCDD**

200528R2\_4



200528R2\_4



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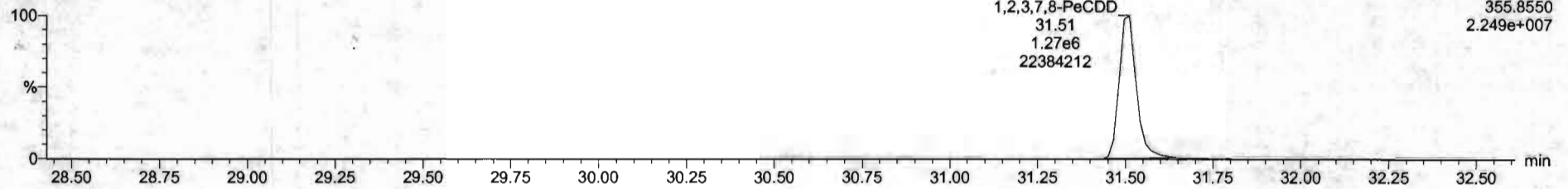
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**1,2,3,7,8-PeCDD**

200528R2\_4

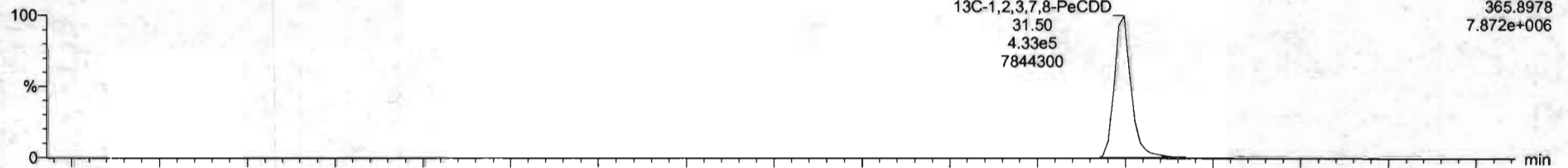


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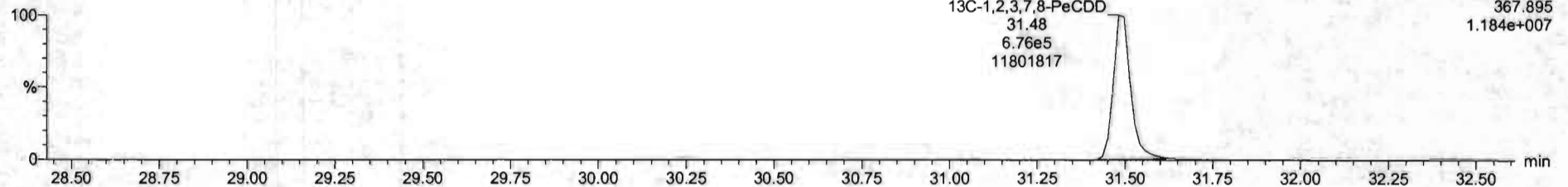


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200528R2\_4



200528R2\_4



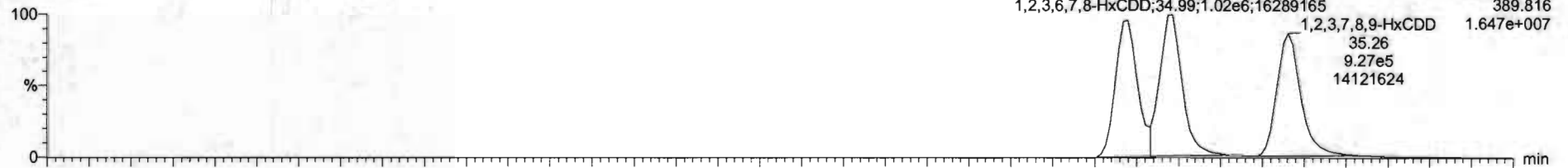
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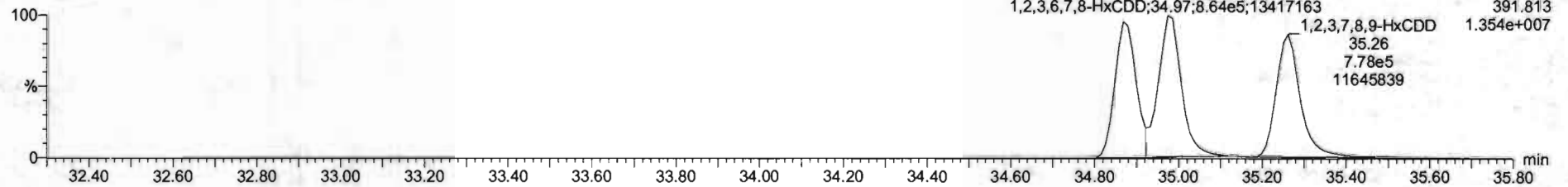
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1,2,3,4,7,8-HxCDD

200528R2\_4

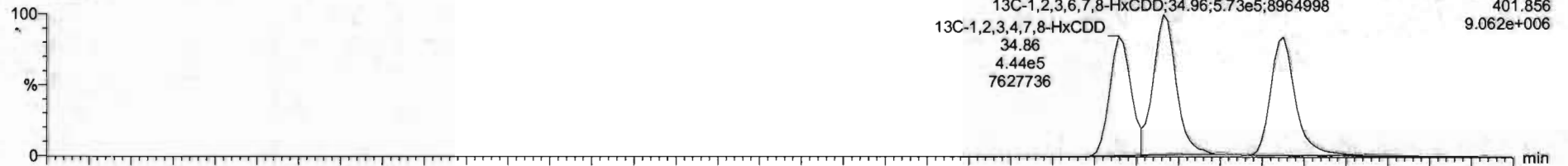


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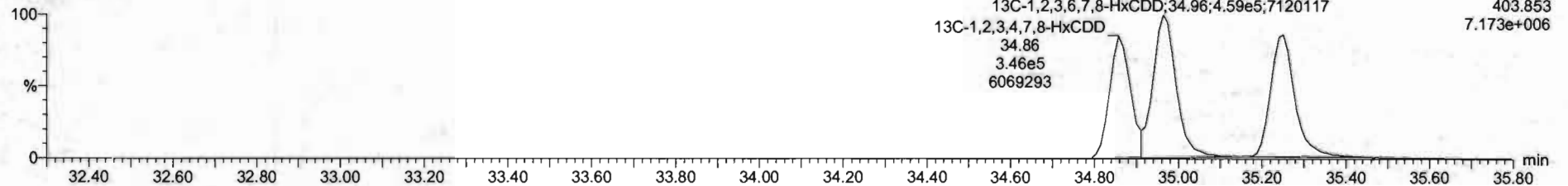


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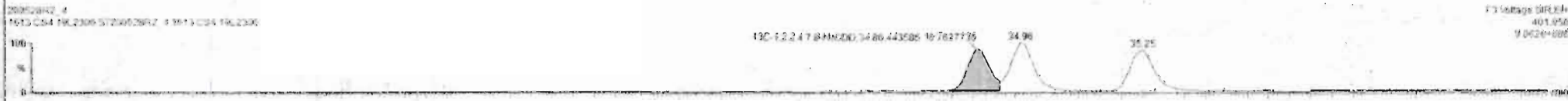
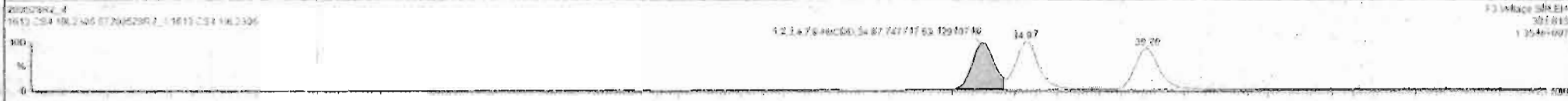


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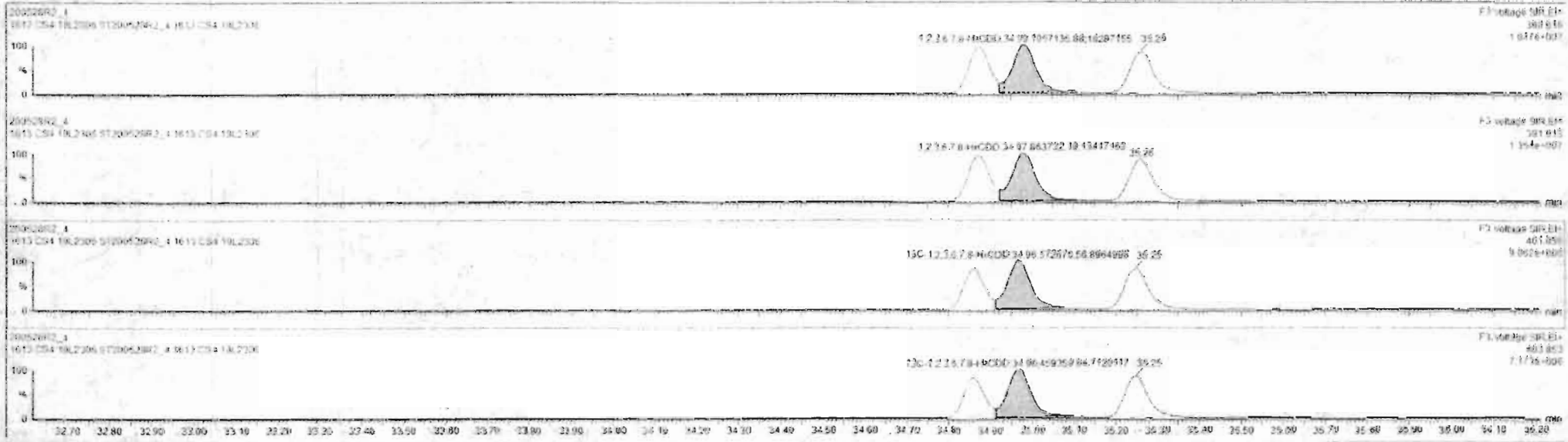
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2	1.2.3.7.8-HxCDD	2.25e6	0.83	NO	0.6091	1.000	31.51	1.000	205	102	0.0837	205
3	1.2.3.4.7.8-HxCDD	1.67e6	1.23	NO	1.0394	1.000	34.86	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.8921	1.000	34.98	1.001	200	104	0.111	200
5	1.2.3.7.8.9-HxCDD	1.70e6	1.26	NO	0.8865	1.000	35.25	1.000	210	105	0.113	210
6	1.2.3.4.6.7.8-HpCDD	1.25e6	1.02	NO	0.6839	1.000	36.80	1.000	211	105	0.218	211
7	OCDD	2.45e6	0.27	NO	0.9136	1.000	41.77	1.000	397	99.4	0.192	397
8	1.2.3.6-TCDF	6.52e6	0.76	NO	0.7019	1.000	25.88	1.001	42.8	107	0.123	42.8
9	1.2.3.7.8-HxCDF	2.94e6	1.54	NO	0.8925	1.000	28.23	1.000	203	101	0.118	203
10	1.2.3.4.7.8-HxCDF	3.50e6	1.54	NO	0.9348	1.000	31.21	1.000	204	102	0.109	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.16	NO	0.8845	1.000	33.99	1.000	208	104	0.223	208
12	1.2.3.6.7.8-HxCDF	2.16e6	1.18	NO	0.8812	1.000	33.12	1.001	206	103	0.203	206
13	2.3.4.6.7.8-HxCDF	2.96e6	1.19	NO	0.9341	1.000	34.21	1.001	207	103	0.219	207
14	1.2.3.7.8.9-HxCDF	1.60e6	1.26	NO	0.8701	1.000	35.62	1.001	208	104	0.313	208
15	1.2.3.4.6.7.8-HpCDF	1.43e6	0.99	NO	0.8714	1.000	37.35	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HpCDF	1.13e6	0.98	NO	1.0128	1.000	39.33	1.000	214	107	0.227	214
17	OCDF	2.54e6	0.87	NO	0.8065	1.000	41.96	1.000	402	100	0.171	402
18	13C-1.2.3.7.8-TCDD	1.58e6	0.79	NO	1.1563	1.000	26.64	1.025	103	103	0.164	
19	13C-1.2.3.7.8-HxCDD	1.11e6	0.84	NO	0.8489	1.000	31.58	1.216	103	103	0.138	
20	13C-1.2.3.4.7.8-HxCDD	7.89e6	1.28	NO	0.7736	1.000	34.96	1.014	103	103	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.07e6	1.25	NO	1.0147	1.000	34.96	1.017	104	104	0.121	



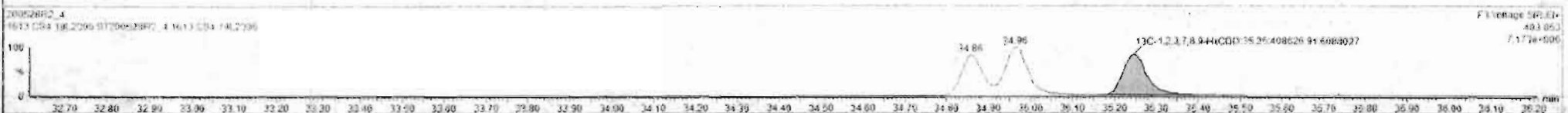
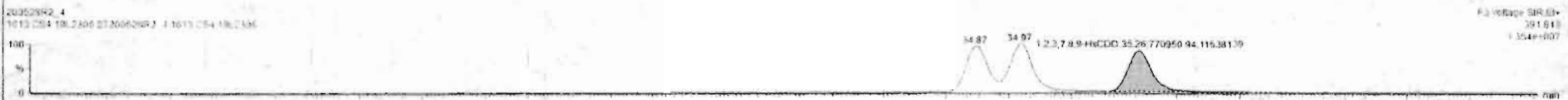
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#	Name	Keep	RA	RY	RF	Wt/Wt	RT	RRT	Conc	Wt/Wt	DL	EMPU
1	1.2.3.7.8-TCDF	1.50e6	0.18	NO	0.0061	1.000	36.96	1.001	41.2	101	0.124	41.1
2	1.2.3.7.8-HxCDD	2.56e6	0.43	NO	0.0041	1.000	31.51	1.000	205	102	0.0017	204
3	1.2.3.7.8-HxCDF	1.87e6	1.23	NO	1.0734	1.000	34.80	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.0020	1.000	34.96	1.001	394	104	0.119	395
5	1.2.3.7.8-HxCDF	1.19e6	1.20	NO	0.0065	1.000	35.26	1.000	210	102	0.133	210
6	1.2.3.4.6.7.8-HxCDD	1.25e6	1.02	NO	0.0033	1.000	36.60	1.000	211	104	0.218	211
7	OCDD	2.45e6	0.97	NO	0.9136	1.000	41.77	1.000	397	104	0.192	397
8	1.2.3.7.8-TCDF	4.12e6	0.76	NO	0.7140	1.000	25.88	1.001	42.0	107	0.123	42.0
9	1.2.3.7.8-HxCDF	1.19e6	1.14	NO	0.0025	1.000	30.23	1.000	203	101	0.100	203
10	1.2.3.7.8-HxCDF	1.08e6	1.14	NO	0.0346	1.000	31.21	1.000	204	102	0.100	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.0041	1.000	33.99	1.000	200	104	0.221	200
12	1.2.3.6.7.8-HxCDF	2.16e6	1.10	NO	0.0092	1.000	34.12	1.001	206	103	0.203	206
13	1.2.3.4.6.7.8-HxCDF	2.68e6	1.19	NO	0.9101	1.000	34.71	1.001	207	103	0.210	207
14	1.2.3.7.8-HxCDF	1.68e6	1.20	NO	0.0007	1.000	35.62	1.001	208	104	0.215	208
15	1.2.3.4.6.7.8-HxCDF	1.43e6	0.99	NO	0.0734	1.000	37.59	1.000	213	106	0.213	213
16	1.2.3.4.7.8-HxCDF	1.13e6	0.90	NO	1.0120	1.000	30.33	1.000	214	107	0.227	214
17	OCDF	2.34e6	0.97	NO	0.0254	1.000	41.96	1.000	400	100	0.171	400
18	1.2.3.7.8-TCDD	1.19e6	0.79	NO	1.1563	1.000	26.94	1.000	163	103	0.114	163
19	1.2.3.1.2.7.8-HxCDD	1.11e6	0.84	NO	0.0490	1.000	31.00	1.210	103	103	0.170	103
20	1.2.3.1.2.4.7.8-HxCDD	7.39e6	1.25	NO	0.7790	1.000	34.06	1.014	103	103	0.172	103
21	1.2.3.1.2.3.7.8-HxCDD	1.02e6	1.25	NO	1.0107	1.000	34.96	1.017	104	104	0.171	104



#	Name	Resp	RA	ny	RRF	wlwt	RT	RRT	Coef	%Rec	DL	104PC
1	1,2,3,7,8-TCDF	0.50e6	0.76	NO	0.8863	1.000	26.56	1.091	41.7	102	0.124	41.4
2	1,2,3,7,8-PeCDD	2.36e6	0.43	NO	0.8051	1.000	31.51	1.000	205	102	0.0837	205
3	1,2,3,4,7,8-HxCDF	1.67e6	1.22	NO	1.0334	1.000	34.55	1.001	204	102	0.115	204
4	1,2,3,6,7,8-HxCDF	1.92e6	1.22	NO	0.9923	1.000	34.99	1.001	209	104	0.111	209
5	1,2,3,7,8,9-HxCDD	1.70e6	1.20	NO	0.6868	1.000	35.26	1.000	210	105	0.133	210
6	1,2,3,4,6,7,8-HpCDE	1.25e6	1.62	NO	0.8830	1.000	38.50	1.000	211	105	0.123	211
7	OCDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.100	397
8	1,2,3,6,7,8-PeCDF	6.53e6	0.76	NO	0.7510	1.000	25.68	1.001	42.0	101	0.123	42.0
9	1,2,3,7,8-HxCDF	2.84e6	1.54	NO	0.8920	1.000	30.21	1.000	207	101	0.119	207
10	1,2,3,7,8-HpCDF	2.06e6	1.54	NO	0.9345	1.000	31.21	1.000	204	102	0.109	204
11	1,2,3,4,7,8-HxCDF	1.67e6	1.16	NO	0.8845	1.000	33.95	1.000	202	104	0.221	202
12	1,2,3,6,7,8-HxCDF	2.16e6	1.10	NO	0.8292	1.000	34.12	1.001	206	103	0.203	206
13	1,2,3,6,7,8-HpCDF	2.00e6	1.19	NO	0.9241	1.000	34.71	1.001	207	103	0.219	207
14	1,2,3,7,8,9-HxCDF	1.60e6	1.20	NO	0.8157	1.000	35.42	1.001	203	104	0.313	203
15	1,2,3,4,6,7,8-HpCDF	1.43e6	0.99	NO	0.8734	1.000	37.39	1.000	213	106	0.213	213
16	1,2,3,4,7,8,9-HpCDF	1.13e6	0.98	NO	1.0128	1.000	39.33	1.000	214	107	0.227	214
17	OCDF	3.54e6	0.57	NO	0.8095	1.000	41.96	1.000	402	100	0.171	402
18	1,2,3,7,8,9-TCDF	1.56e6	0.75	NO	1.1567	1.000	28.54	1.025	103	103	0.164	
19	1,2,3,7,8,9-PeCDD	0.11e6	0.64	NO	0.8469	1.000	31.50	1.216	103	103	0.139	
20	1,2,3,4,7,8-HxCDE	7.89e6	1.28	NO	0.7798	1.000	34.96	1.014	103	103	0.172	
21	1,2,3,4,6,7,8-HpCDD	1.03e6	1.35	NO	1.0187	1.000	34.96	1.017	104	104	0.121	





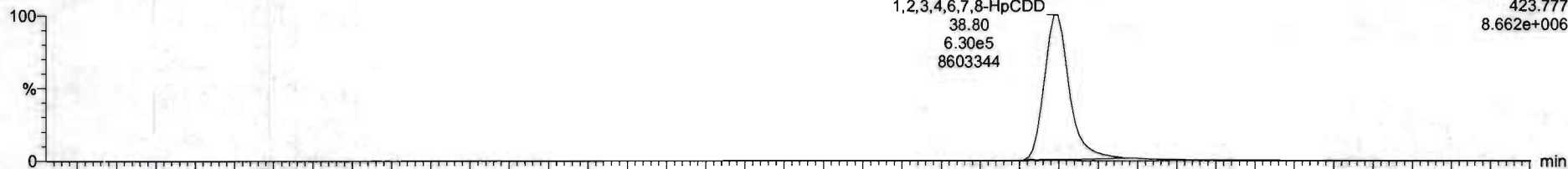
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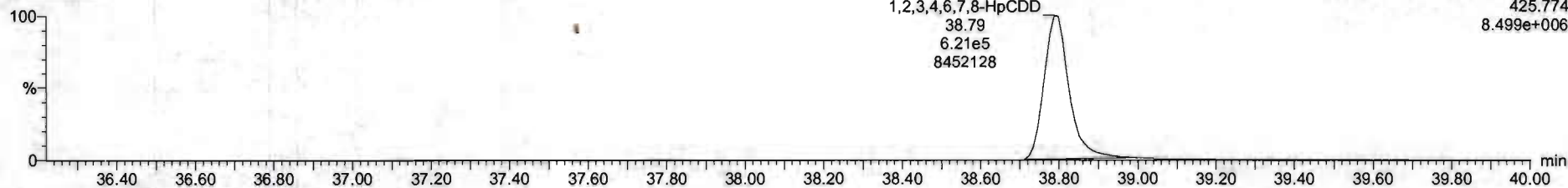
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**1,2,3,4,6,7,8-HpCDD**

200528R2\_4

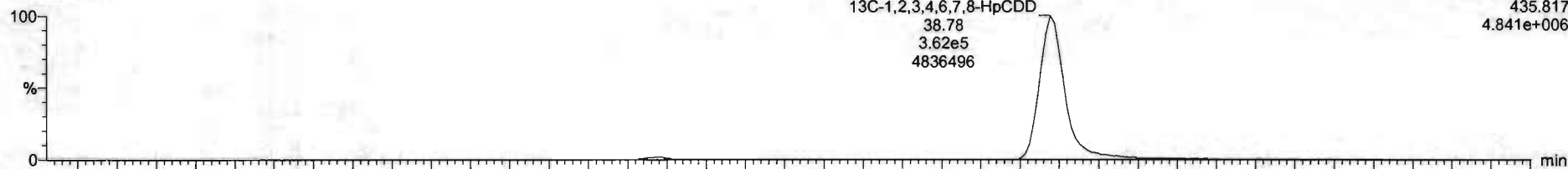


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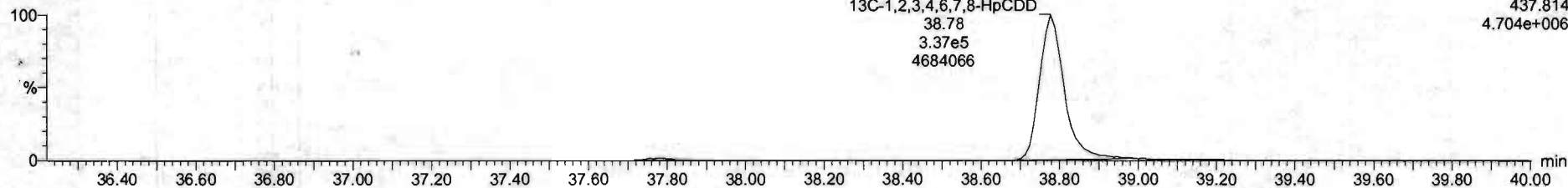


**13C-1,2,3,4,6,7,8-HpCDD**

200528R2\_4



200528R2\_4



#	Name	Resp	RA	n/y	RRF	IntVal	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.50e6	0.76	NO	0.8983	1.000	26.96	1.001	41.2	103	0.124	41.2
2	1,2,3,7,8-PeCDD	2.06e6	0.83	NO	0.8081	1.000	31.51	1.000	205	102	0.5837	205
3	1,2,3,4,7,8-HxCDD	1.67e6	1.23	NO	1.0334	1.000	34.80	1.001	204	102	0.115	204
4	1,2,3,6,7,8-HxCDD	1.92e6	1.22	NO	0.8927	1.000	34.99	1.001	209	104	0.111	209
5	1,2,3,7,8,9-HxCDD	1.76e6	1.26	NO	0.8665	1.000	35.25	1.000	210	105	0.133	210
6	1,2,3,4,6,7,8-HpCDD	1.25e6	1.02	NO	0.8839	1.000	36.80	1.000	211	105	0.210	211
7	CDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.192	397
8	2,3,7,8-TCDF	6.52e6	0.76	NO	0.7510	1.000	26.68	1.001	42.0	107	0.123	42.0
9	1,2,3,7,8-PeCDF	3.94e6	1.54	NO	0.8325	1.000	30.21	1.000	203	101	0.118	203
10	1,2,3,4,7,8-HxCDF	3.06e6	1.54	NO	0.9348	1.000	31.21	1.000	204	102	0.109	204
11	1,2,3,4,7,8-HxCDF	1.87e6	1.16	NO	0.8845	1.000	33.99	1.000	208	104	0.221	208
12	1,2,3,6,7,8-HxCDF	2.16e6	1.10	NO	0.8062	1.000	34.12	1.001	208	103	0.203	208
13	2,3,4,6,7,8-HxCDF	2.00e6	1.19	NO	0.9341	1.000	34.71	1.001	207	103	0.219	207
14	1,2,3,7,8,9-HxCDF	1.60e6	1.20	NO	0.8787	1.000	35.42	1.001	208	104	0.313	208
15	1,2,3,4,6,7,8-HpCDF	1.43e6	0.99	NO	0.8734	1.000	37.35	1.000	213	106	0.213	213
16	1,2,3,4,7,8,9-HpCDF	1.13e6	0.98	NO	1.0128	1.000	38.32	1.000	214	107	0.227	214
17	CDF	2.54e6	0.87	NO	0.8085	1.000	41.96	1.000	402	100	0.171	402
18	1,2,3,7,8-TCDF	1.56e6	0.79	NO	1.1563	1.000	26.54	1.025	103	103	0.164	
19	1,2,3,4,6,7,8-HpCDF	1.11e6	0.84	NO	0.8460	1.000	31.30	1.216	104	103	0.139	
20	1,2,3,4,7,8-HpCDD	7.98e6	1.28	NO	0.7790	1.000	34.80	1.014	103	103	0.172	
21	1,2,3,4,6,7,8-HpCDD	1.03e6	1.25	NO	1.0167	1.000	34.96	1.017	104	104	0.131	



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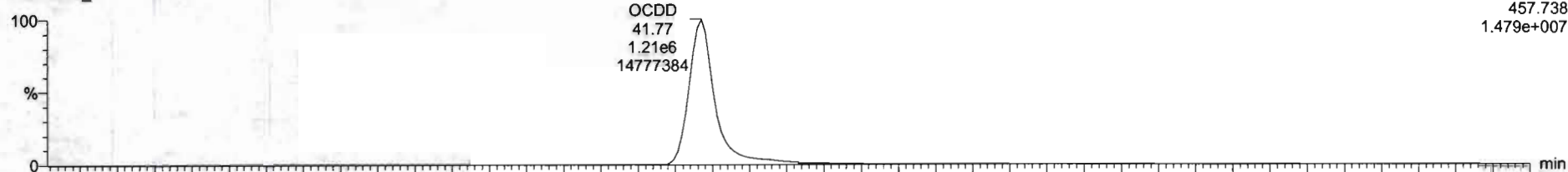
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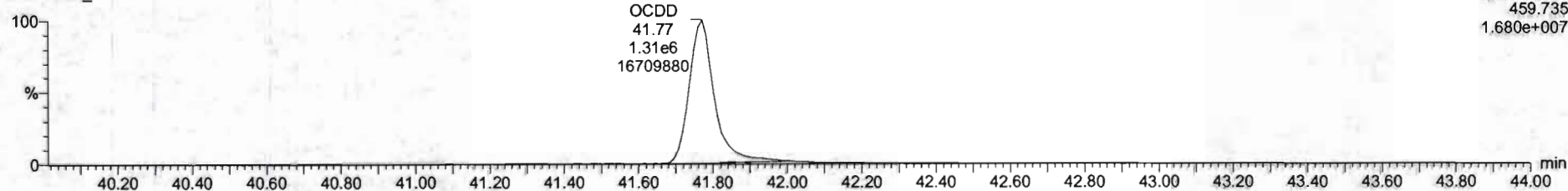
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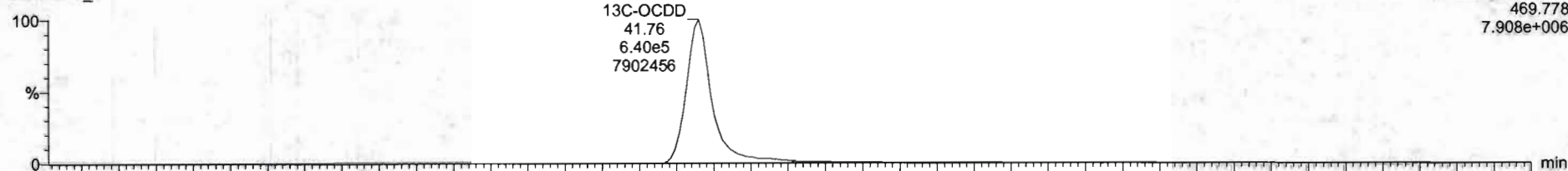
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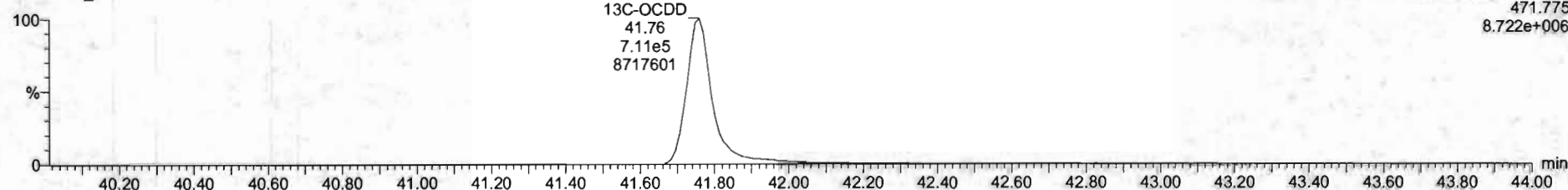
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200528R2\_4



F5: Voltage SIR, EI+  
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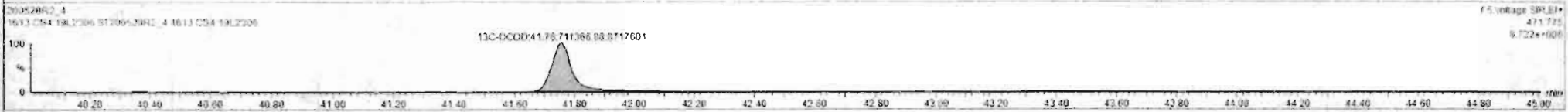
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F5: Voltage SIR, EI+  
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#	Name	Resp	RA	inj	RRF	wt/vol	RT	NRT	Conc	%Rec	DL	SI/PC
1	2.3.7.8-TCDD	3.56e5	0.76	NO	0.8883	1.000	28.56	1.001	41.2	101	0.134	41.2
2	1.2.3.7.8-PeCDD	2.06e6	0.63	NO	0.9051	1.000	31.01	1.000	205	102	0.6837	205
3	1.2.3.4.7.8-HxCD	1.07e6	1.23	NO	1.0334	1.000	34.80	1.001	284	102	0.115	284
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.8923	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.8.9-HxCDD	1.70e6	1.20	NO	0.8069	1.000	35.26	1.000	210	105	0.133	210
6	1.2.3.4.7.8.9-HpCDD	1.25e6	1.02	NO	0.8639	1.000	36.90	1.000	211	105	0.110	211
7	OCDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	307	99.4	0.192	307
8	2.3.7.8-TCDF	6.52e5	0.76	NO	0.7510	1.000	28.66	1.001	42.8	107	0.123	42.8
9	1.2.3.7.8-PeCDF	2.94e6	1.54	NO	0.9905	1.000	30.23	1.000	203	101	0.118	203
10	1.2.3.4.7.8-HxCDF	1.00e6	1.54	NO	0.9340	1.000	31.21	1.000	204	102	0.100	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.8545	1.000	33.99	1.000	205	104	0.221	208
12	1.2.3.6.7.8-HxCDF	2.16e6	1.10	NO	0.8062	1.000	34.12	1.001	200	103	0.205	206
13	1.2.3.4.7.8-HxCDF	2.00e6	1.19	NO	0.9383	1.000	34.71	1.001	207	103	0.219	207
14	1.2.3.7.8.9-HxCDF	1.60e6	1.20	NO	0.8707	1.000	35.62	1.001	208	104	0.313	208
15	1.2.3.4.7.8.9-HpCDF	1.43e6	0.99	NO	0.8734	1.000	37.55	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HpCDF	1.13e6	0.90	NO	1.0126	1.000	39.33	1.000	214	107	0.227	214
17	OCDF	2.54e6	0.87	NO	0.8085	1.000	41.96	1.000	402	100	0.171	402
18	13C-2.3.7.8-TCDD	1.58e6	0.79	NO	1.1503	1.000	28.54	1.025	103	103	0.184	
19	13C-1.2.3.7.8-PeCDD	1.11e6	0.64	NO	0.8490	1.000	31.50	1.216	103	103	0.130	
20	13C-1.2.3.4.7.8-HxCDD	7.89e5	1.28	NO	0.7790	1.000	34.96	1.014	103	103	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.03e6	1.25	NO	1.0187	1.000	34.96	1.017	104	104	0.131	



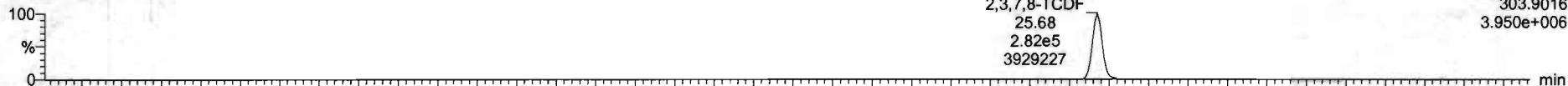
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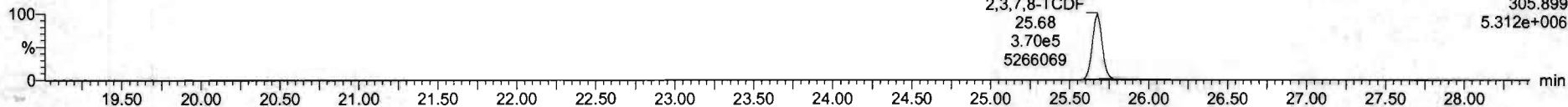
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**2,3,7,8-TCDF**

200528R2\_4

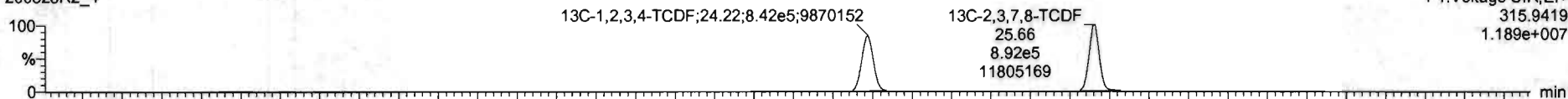


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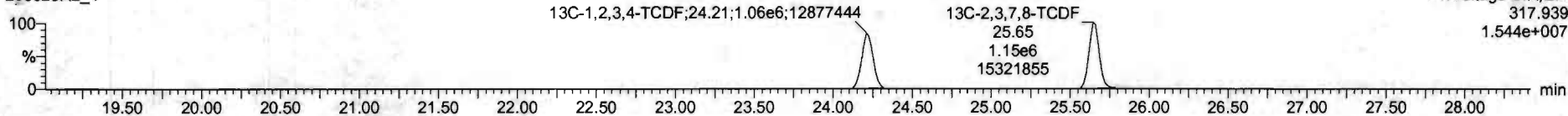


**13C-2,3,7,8-TCDF**

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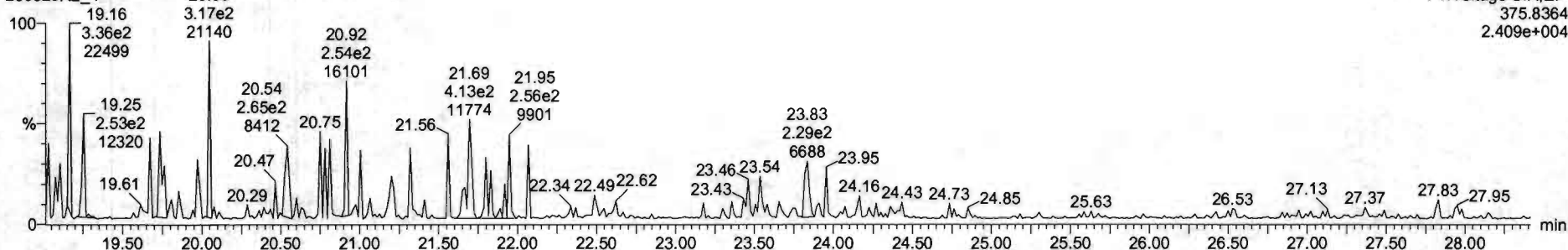


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**DPE1**

200528R2\_4

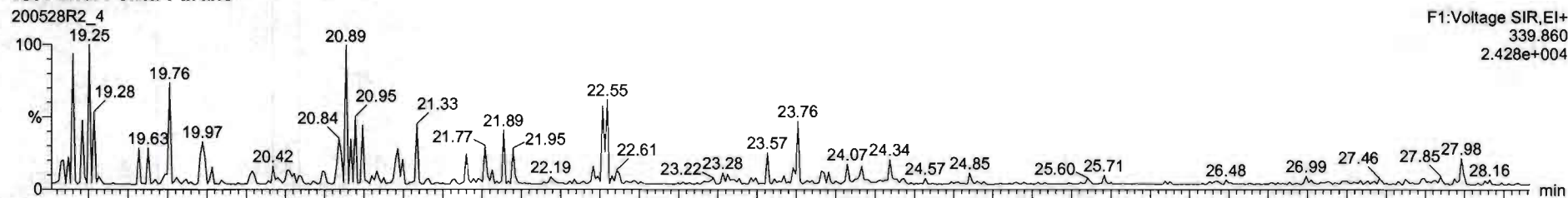


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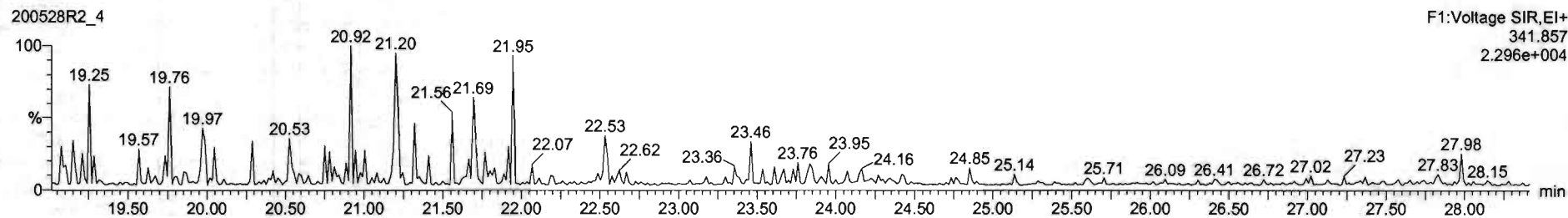
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1st Func. Penta-Furans

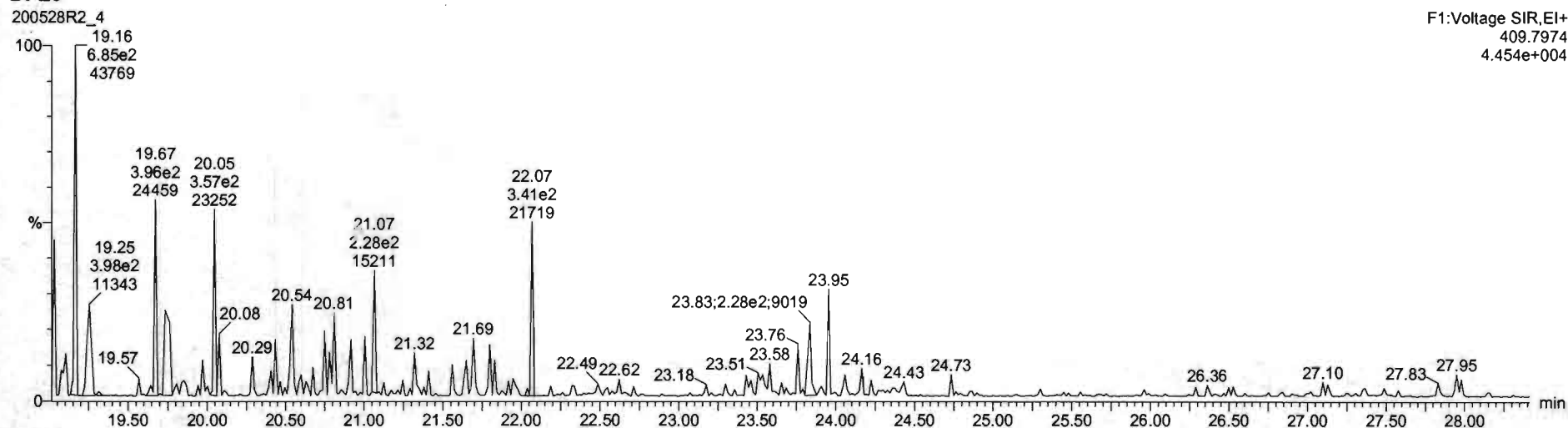


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2.428e+004



F1:Voltage SIR,EI+  
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2.296e+004

DPE6



F1:Voltage SIR,EI+  
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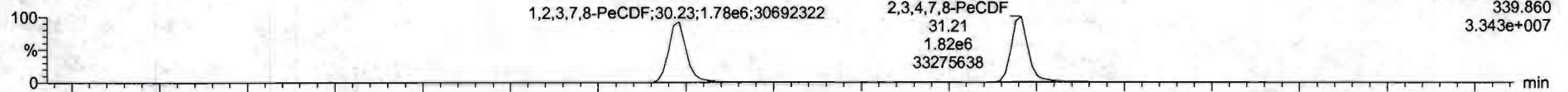
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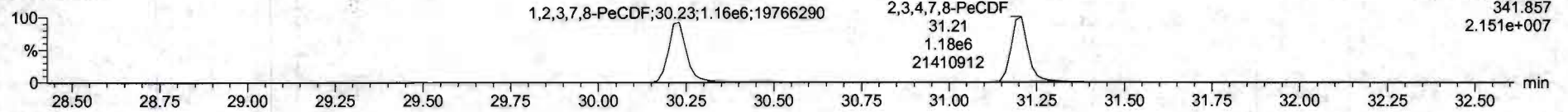
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**1,2,3,7,8-PeCDF**

200528R2\_4

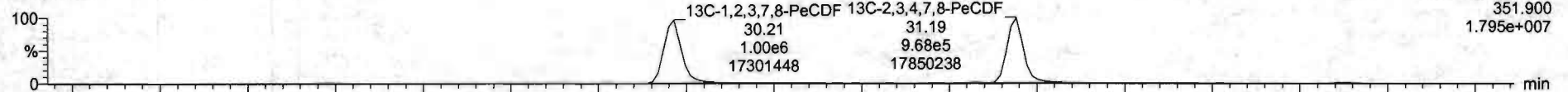


200528R2\_4

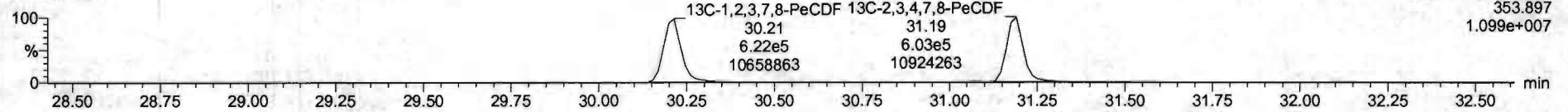


**13C-1,2,3,7,8-PeCDF**

200528R2\_4

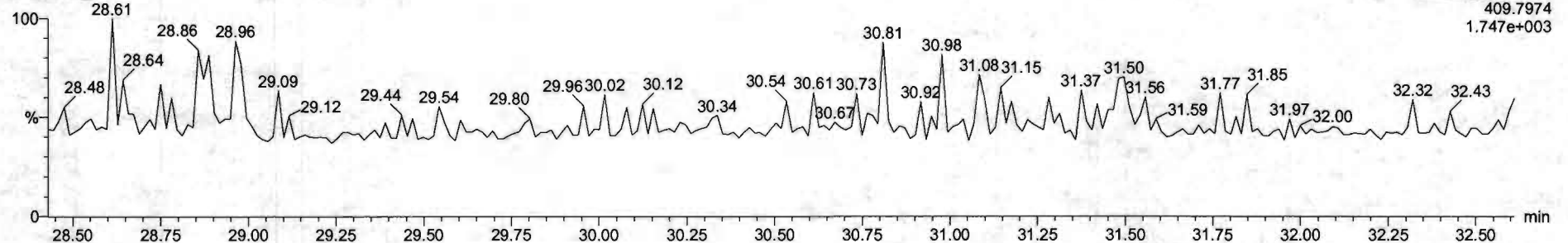


200528R2\_4



**DPE2**

200528R2\_4



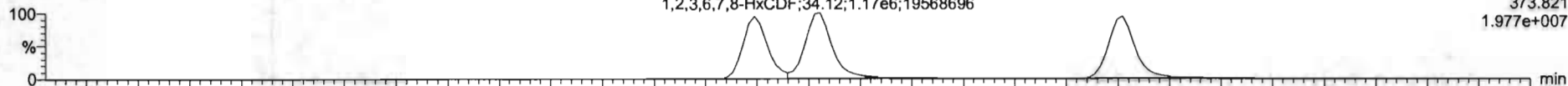
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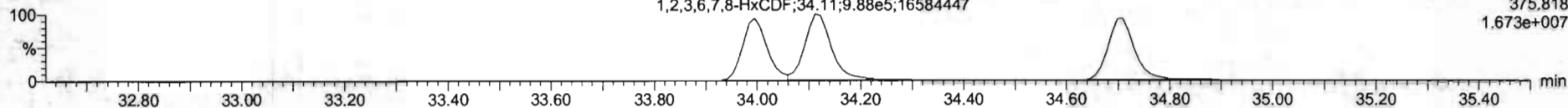
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**1,2,3,4,7,8-HxCDF**

200528R2\_4

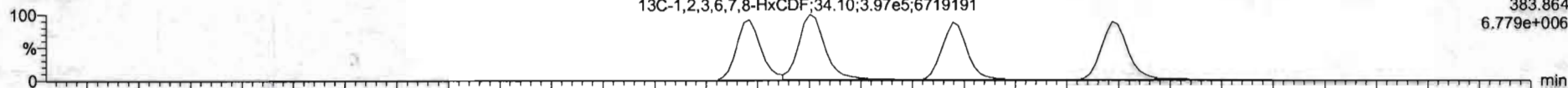


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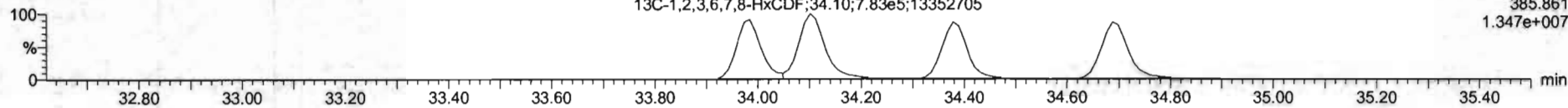


**13C-1,2,3,4,7,8-HxCDF**

200528R2\_4

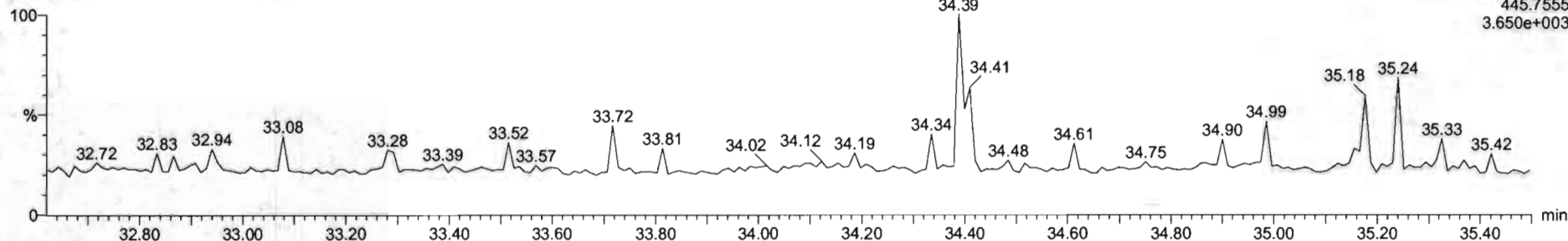


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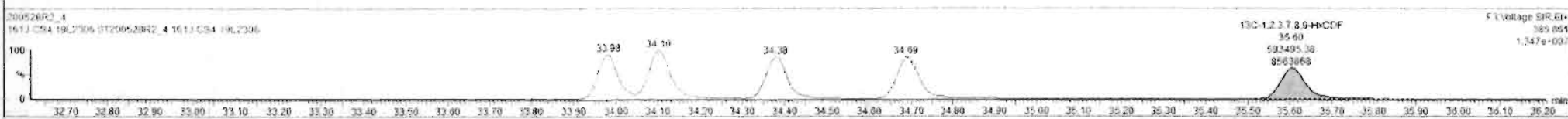
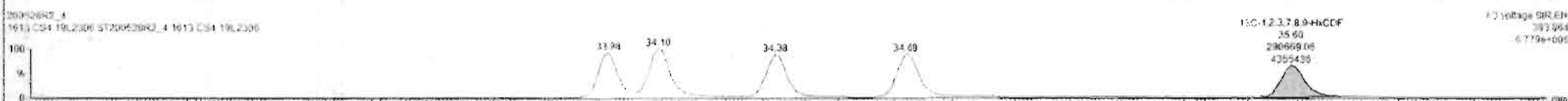


**DPE3**

200528R2\_4



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1	1.2.3.7.8-TCDD	3.56e5	0.78	NO	0.2883	1.000	26.96	1.001	41.2	103	0.124	11.2
2	1.2.3.7.8-HxCDD	2.06e6	0.83	NO	0.9081	1.000	31.91	1.000	285	100	0.0837	209
3	1.2.3.4.7.8-HxCDD	1.67e6	1.23	NO	1.0324	1.000	34.88	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.8523	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.8.9-HxCDD	1.78e6	1.20	NO	0.8865	1.000	35.26	1.000	240	105	0.133	240
6	1.2.3.4.6.7.8-HpCDD	1.25e6	1.02	NO	0.8639	1.000	36.86	1.000	211	106	0.128	211
7	OCDD	2.45e6	0.57	NO	0.9136	1.000	41.27	1.000	397	99.4	0.182	397
8	1.2.3.7.8-TCDF	6.52e5	0.76	NO	0.7510	1.000	25.68	1.001	42.6	107	0.123	42.6
9	1.2.3.7.8-HxCDF	2.94e6	1.54	NO	0.8925	1.000	30.23	1.000	283	101	0.118	283
10	1.2.3.4.7.8-HxCDF	3.06e6	1.54	NO	0.9348	1.000	31.21	1.000	204	105	0.199	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.8845	1.000	33.95	1.000	268	104	0.221	268
12	1.2.3.6.7.8-HxCDF	2.16e6	1.10	NO	0.8892	1.000	34.12	1.001	200	103	0.200	200
13	1.2.3.4.6.7.8-HxCDF	2.00e6	1.19	NO	0.9341	1.000	34.71	1.001	207	102	0.219	207
14	1.2.3.7.8.9-HxCDF	1.80e6	1.28	NO	0.8787	1.000	35.62	1.001	290	104	0.313	290
15	1.2.3.4.6.7.8-HpCDF	1.43e6	0.99	NO	0.8714	1.000	37.39	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HpCDF	1.13e6	0.98	NO	1.0128	1.000	39.32	1.000	214	107	0.221	214
17	OCDF	2.54e6	0.67	NO	0.8085	1.000	41.96	1.000	403	100	0.178	402
18	13C-1.2.3.7.8-TCDD	1.50e6	0.75	NO	1.1563	1.000	26.54	1.026	103	101	0.194	
19	13C-1.2.3.7.8-HxCDD	1.11e6	0.64	NO	0.8468	1.000	31.90	1.216	193	103	0.130	
20	13C-1.2.3.4.7.8-HxCDD	7.09e5	1.28	NO	0.7790	1.000	34.96	1.014	103	102	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.03e6	1.25	NO	1.0187	1.000	34.98	1.013	104	104	0.124	





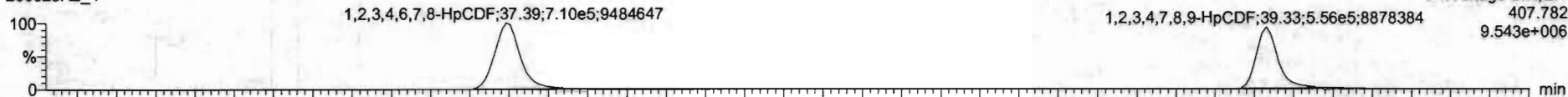
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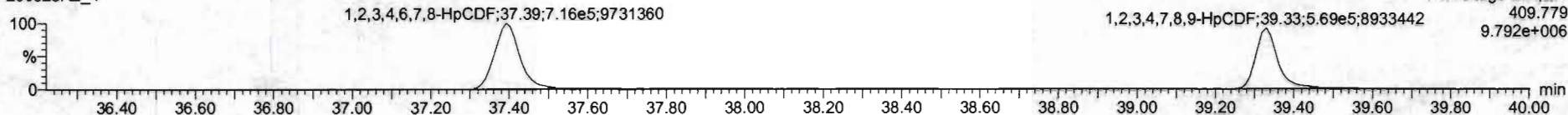
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**1,2,3,4,6,7,8-HpCDF**

200528R2\_4

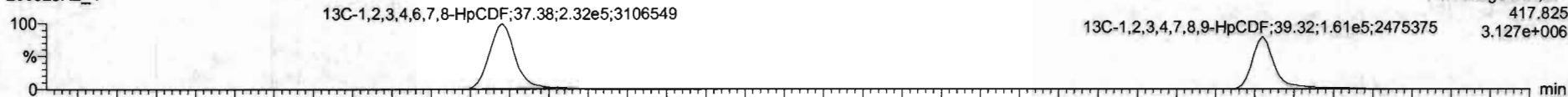


200528R2\_4

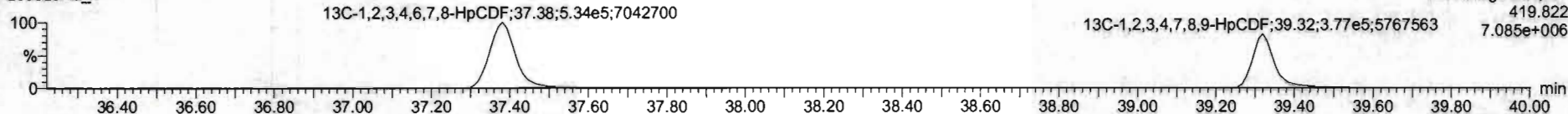


**13C-1,2,3,4,6,7,8-HpCDF**

200528R2\_4

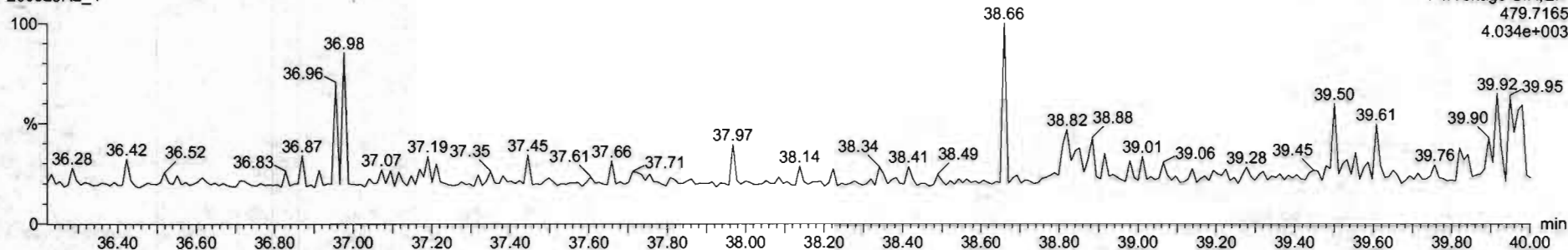


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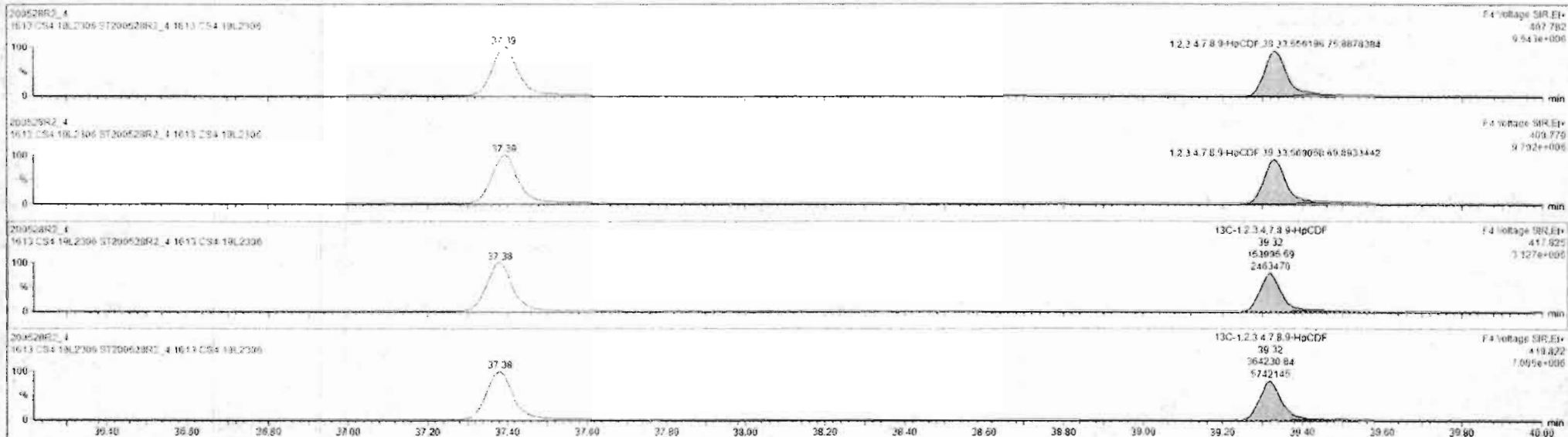


**DPE4**

200528R2\_4



#	Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.56e5	0.78	NO	0.8583	1.000	26.56	1.001	41.3	103	0.134	41.2
2	1,2,3,7,8-PeCDD	2.06e6	0.63	NO	0.9081	1.000	31.51	1.000	205	102	0.9837	205
3	1,2,3,4,7,8-HxCDD	1.87e6	1.23	NO	1.0334	1.000	34.86	1.001	204	102	0.115	204
4	1,2,3,8,7,8-HxCDD	1.82e6	1.22	NO	0.8521	1.000	34.90	1.001	200	104	0.111	200
5	1,2,3,7,9,8-HxCDD	1.70e6	1.20	NO	0.8969	1.000	35.26	1.000	210	105	0.133	210
6	1,2,3,4,6,7,8-HxCDD	1.25e6	1.02	NO	0.8631	1.000	36.90	1.000	211	105	0.219	211
7	OCDD	2.45e8	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.190	397
8	2,3,7,8-TCDF	6.52e5	0.76	NO	0.7510	1.000	25.66	1.001	42.6	107	0.123	42.2
9	1,2,3,7,9-PeCDF	2.54e6	1.54	NO	0.8925	1.000	30.23	1.000	203	101	0.110	203
10	1,2,3,4,7,8-HxCDF	3.00e6	1.54	NO	0.9346	1.000	31.21	1.000	204	107	0.109	204
11	1,2,3,4,7,8-HxCDF	1.87e6	1.18	NO	0.8845	1.000	33.99	1.000	203	104	0.221	206
12	1,2,3,6,7,8-HxCDF	2.16e6	1.18	NO	0.8867	1.000	34.12	1.001	206	103	0.203	206
13	2,3,4,6,7,8-HxCDF	2.06e6	1.19	NO	0.9341	1.000	34.71	1.001	207	107	0.219	207
14	1,2,3,7,9,8-HxCDF	1.60e6	1.20	NO	0.8707	1.000	35.62	1.001	208	104	0.213	208
15	1,2,3,4,6,7,8-HxCDF	1.43e6	0.95	NO	0.8734	1.000	37.35	1.000	215	106	0.213	213
16	1,2,3,4,7,8,9-HpCDF	1.15e6	0.60	NO	1.0128	1.000	39.33	1.000	214	107	5.327	214
17	OCDF	2.54e8	0.87	NO	0.8085	1.000	41.96	1.000	402	100	0.171	402
18	13C-2,3,7,8-TCDD	1.54e6	0.75	NO	1.1563	1.000	26.54	1.025	107	103	0.164	
19	13C-1,2,3,7,8-PeCDD	1.11e6	0.64	NO	0.8469	1.000	31.50	1.216	103	103	0.138	
20	13C-1,2,3,4,7,8-HxCDD	7.89e5	1.26	NO	0.7790	1.000	34.86	1.014	103	103	0.102	
21	13C-1,2,3,6,7,8-HxCDD	1.02e6	1.25	NO	1.0167	1.000	34.96	1.017	104	104	0.121	



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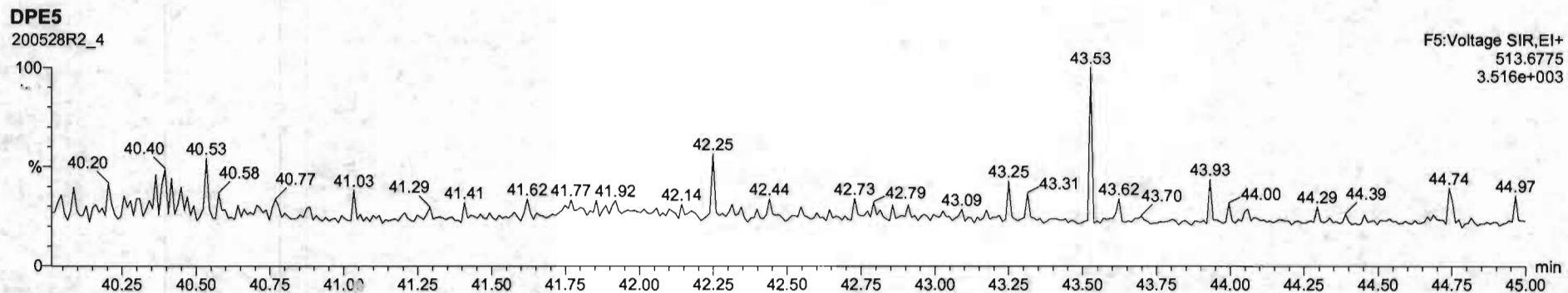
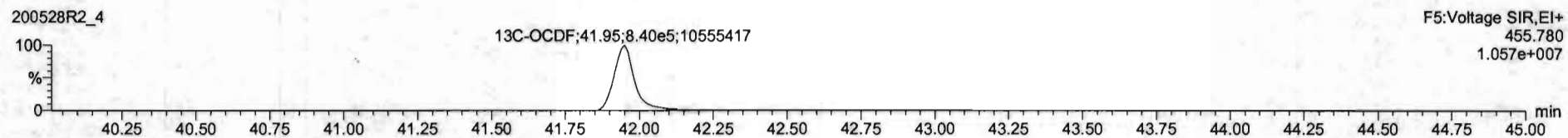
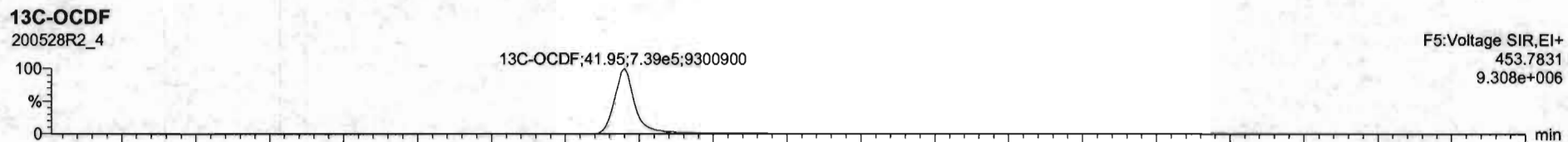
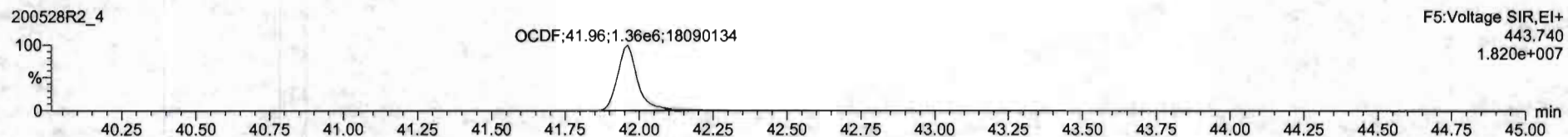
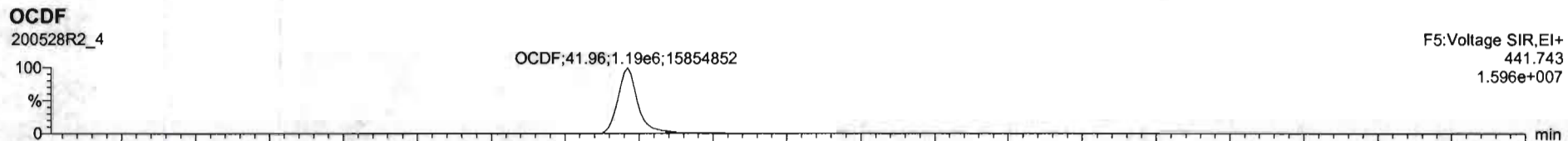
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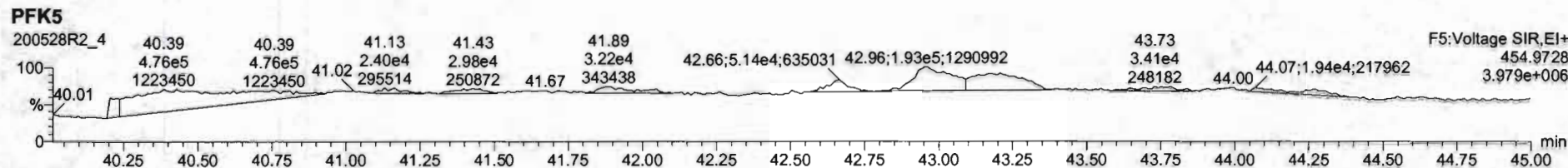
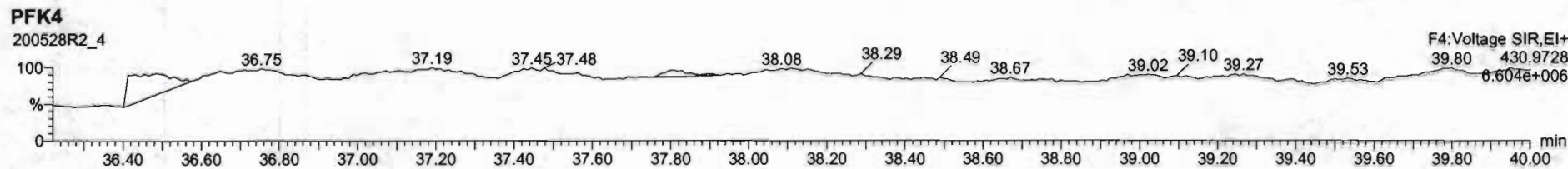
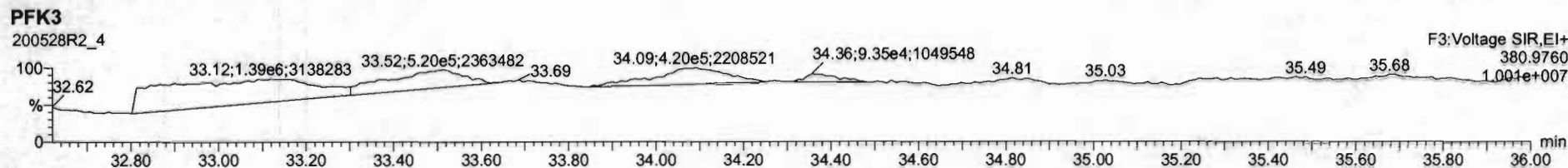
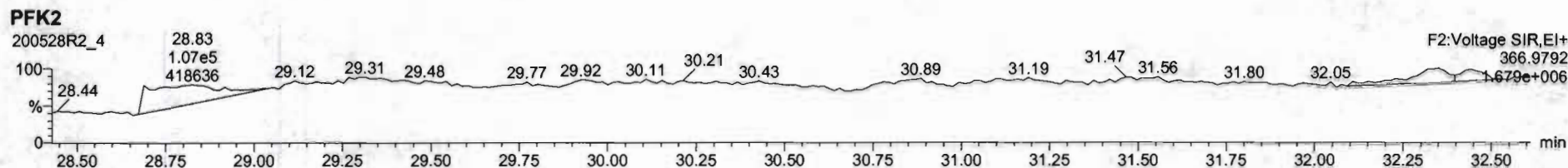
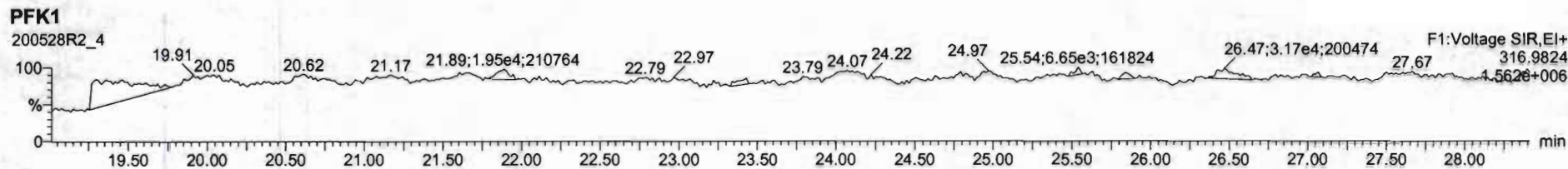




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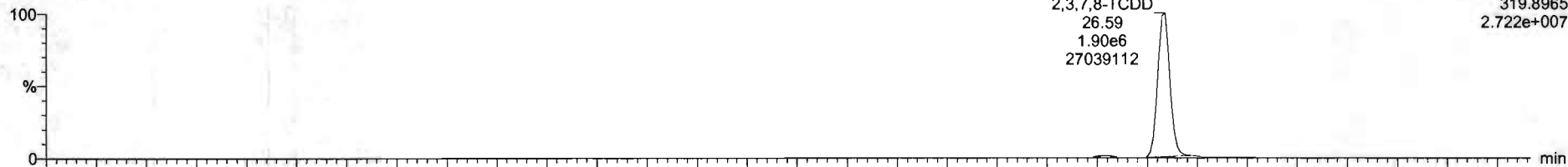
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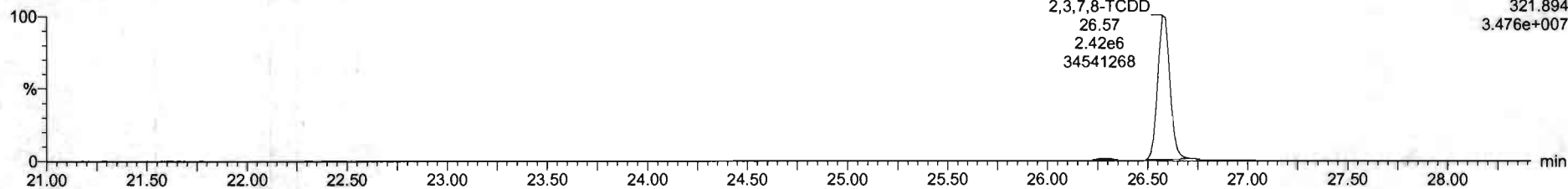
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**2,3,7,8-TCDD**

200528R2\_5

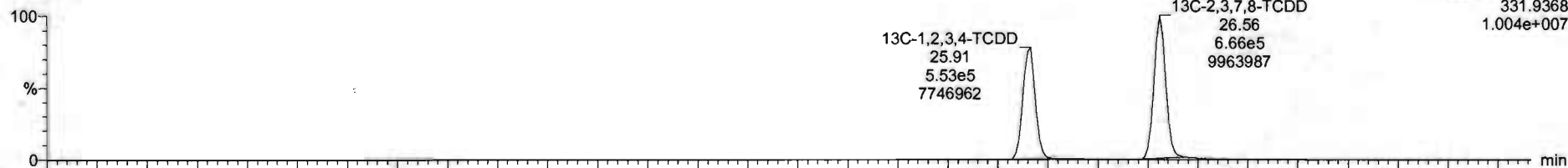


200528R2\_5

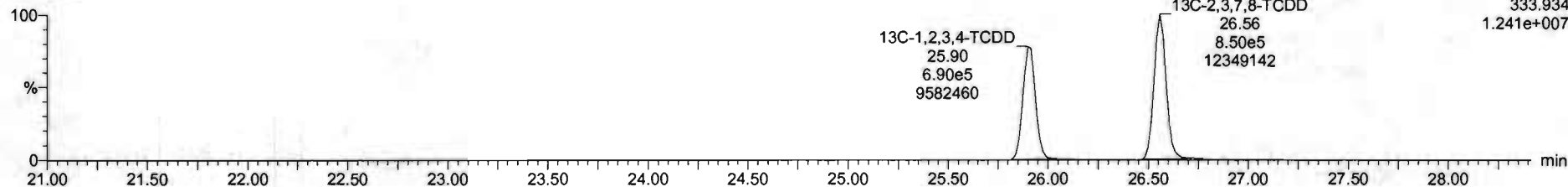


**13C-2,3,7,8-TCDD**

200528R2\_5



200528R2\_5





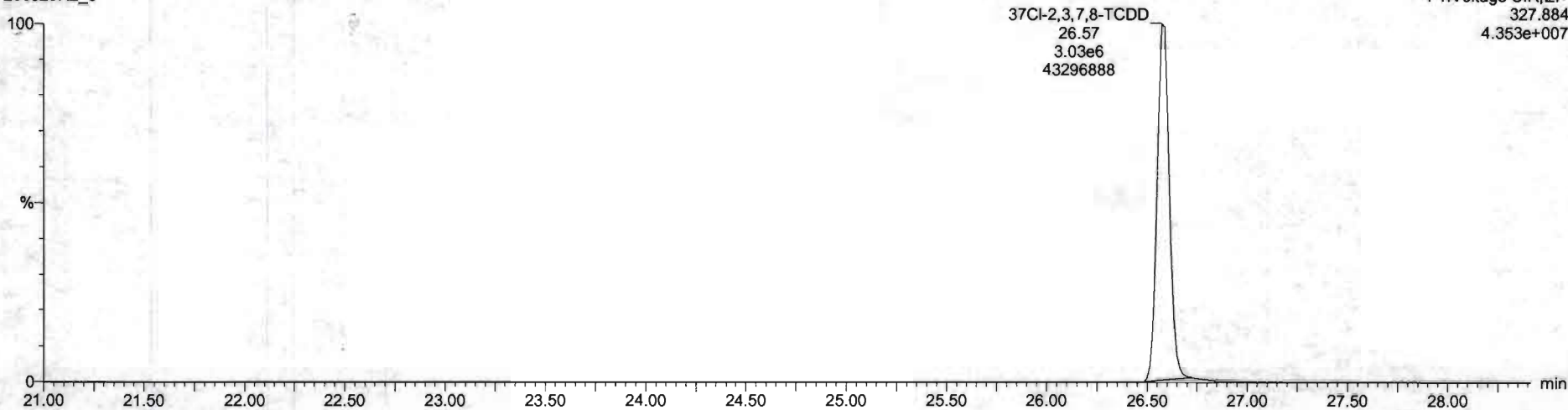
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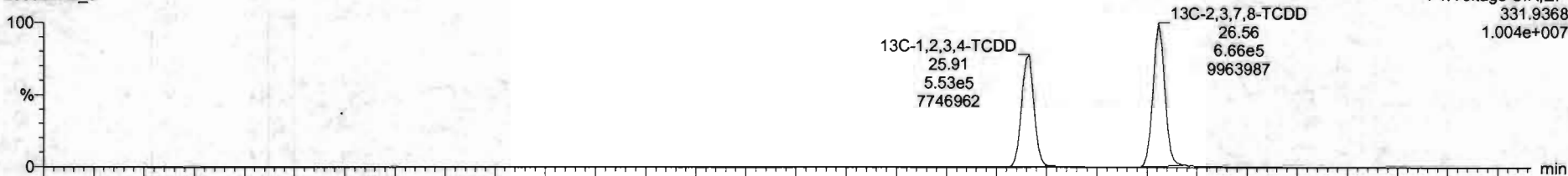
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200528R2\_5

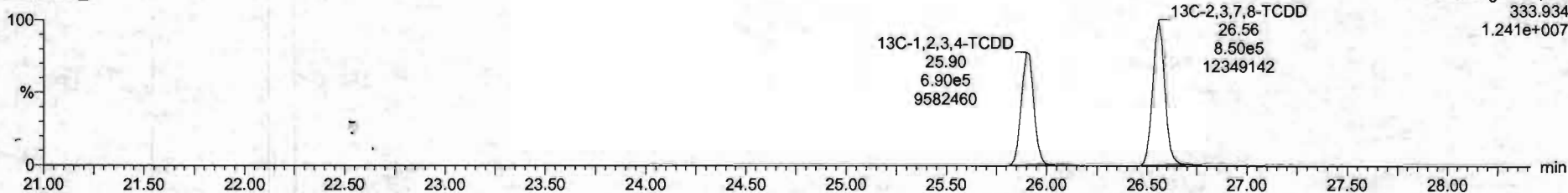


**13C-1,2,3,4-TCDD**

200528R2\_5



200528R2\_5



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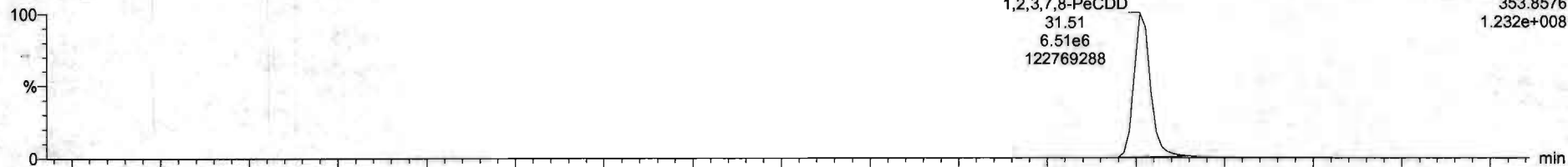
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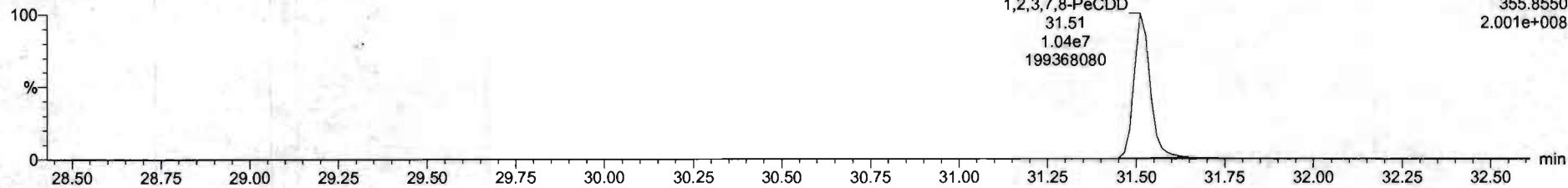
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1,2,3,7,8-PeCDD

200528R2\_5

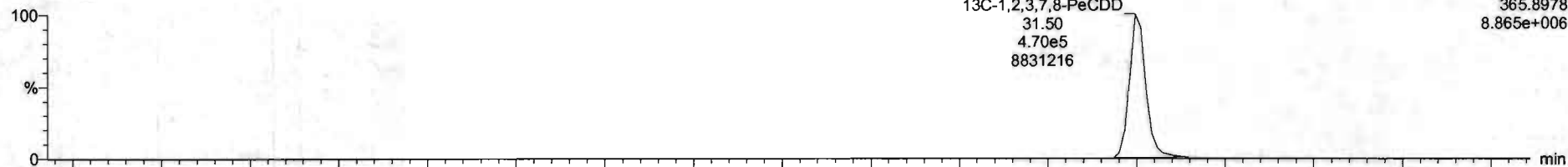


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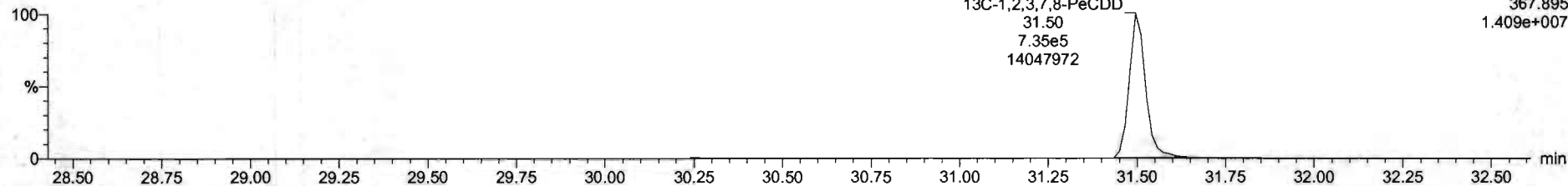


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200528R2\_5



200528R2\_5



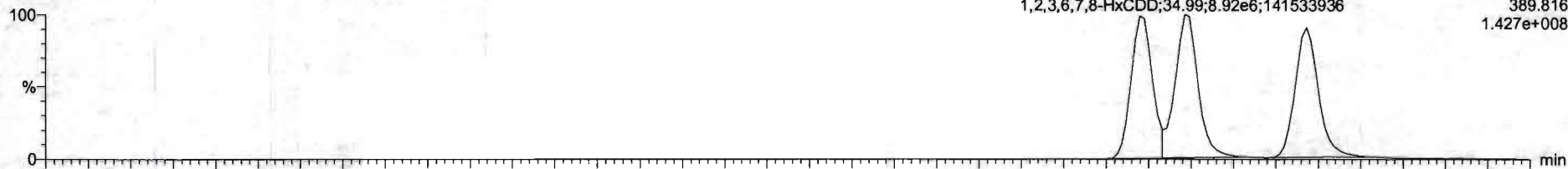
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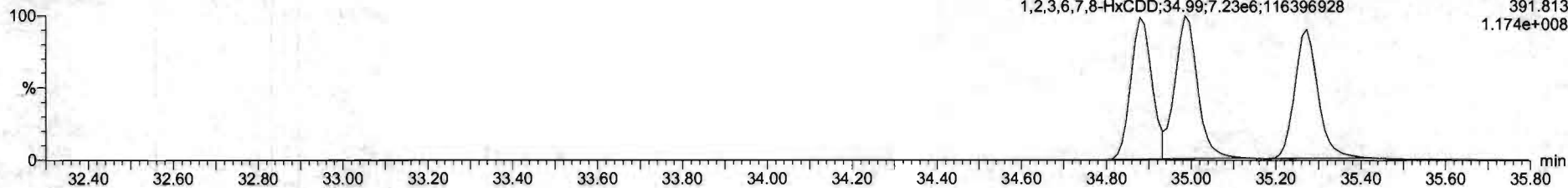
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**1,2,3,4,7,8-HxCDD**

200528R2\_5

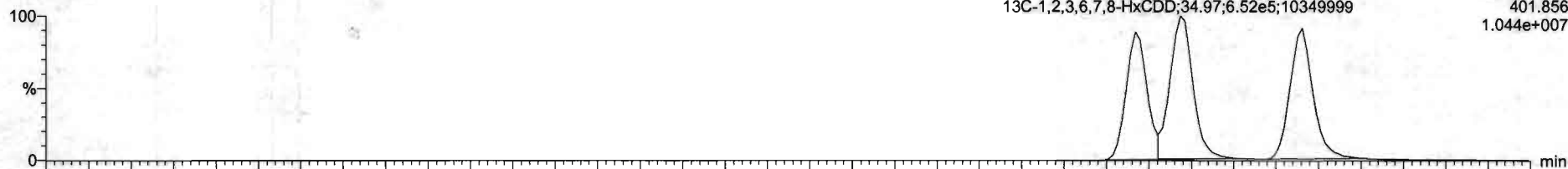


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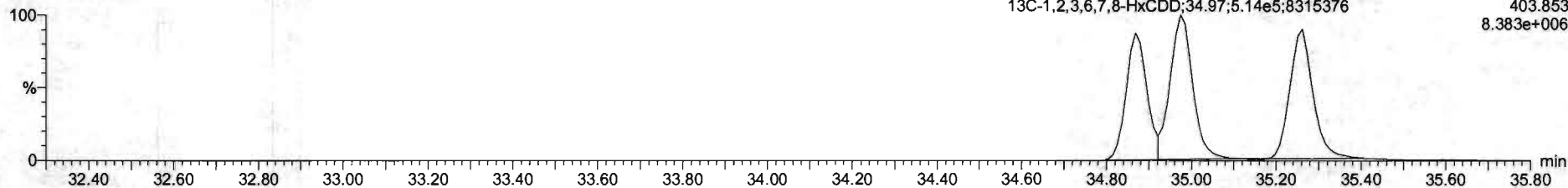


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200528R2\_5



200528R2\_5





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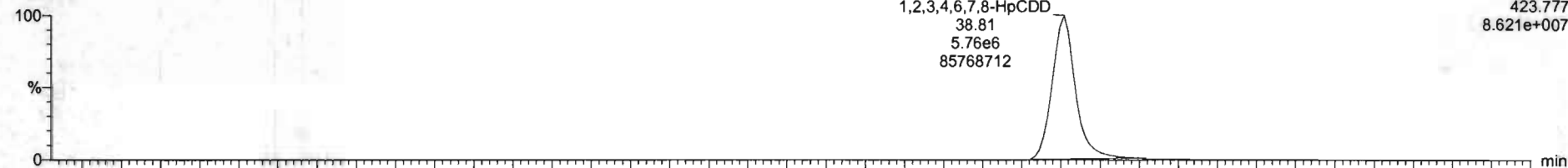
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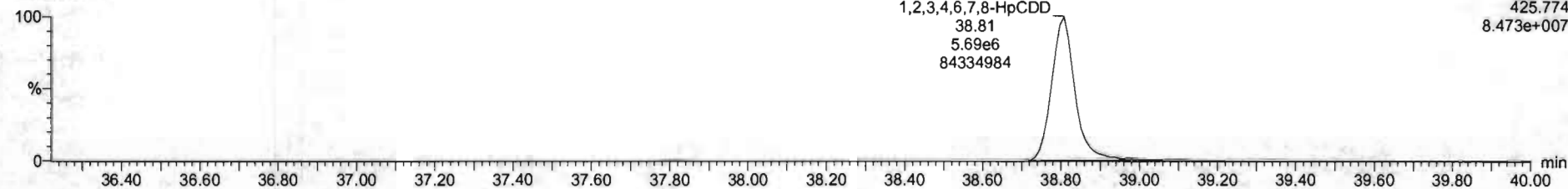
1,2,3,4,6,7,8-HpCDD

200528R2\_5



F4:Voltage SIR,EI+  
423.777  
8.621e+007

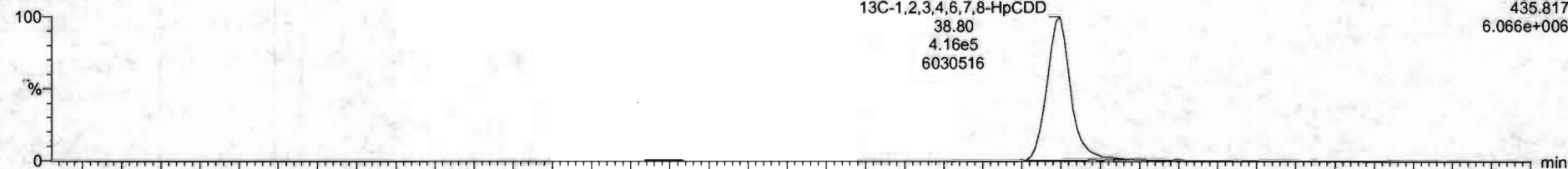
200528R2\_5



F4:Voltage SIR,EI+  
425.774  
8.473e+007

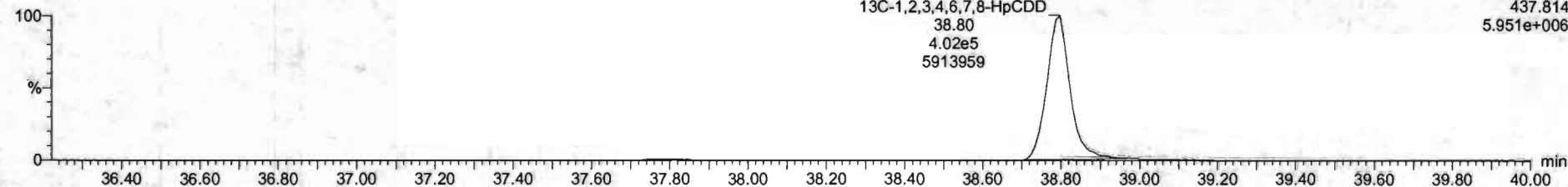
13C-1,2,3,4,6,7,8-HpCDD

200528R2\_5



F4:Voltage SIR,EI+  
435.817  
6.066e+006

200528R2\_5



F4:Voltage SIR,EI+  
437.814  
5.951e+006

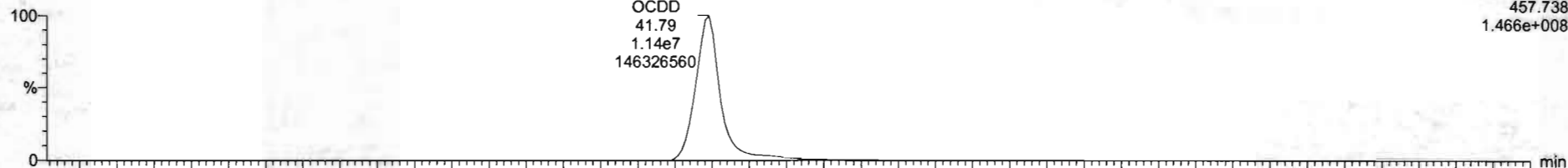
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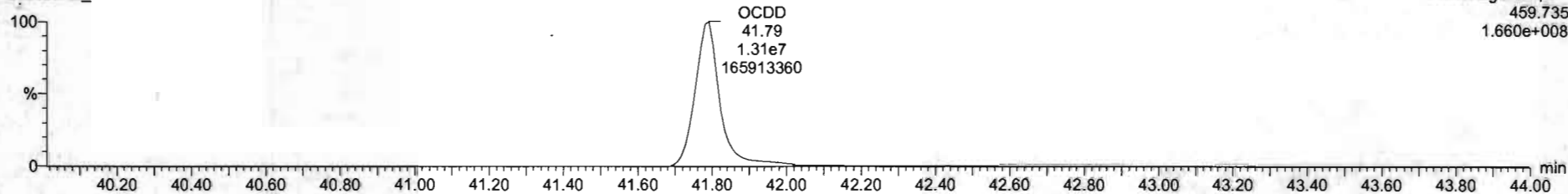
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OCDD

200528R2\_5

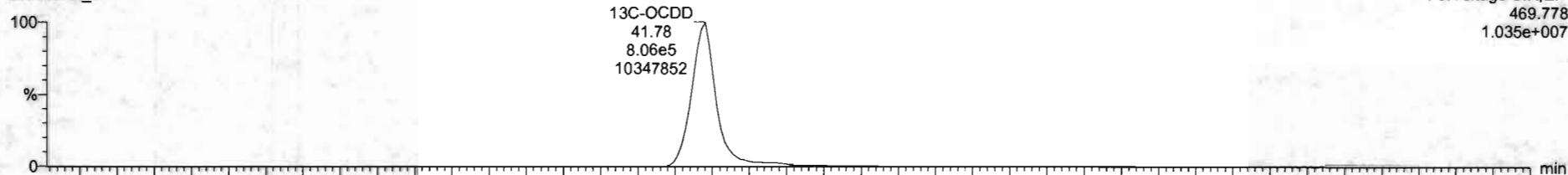


200528R2\_5

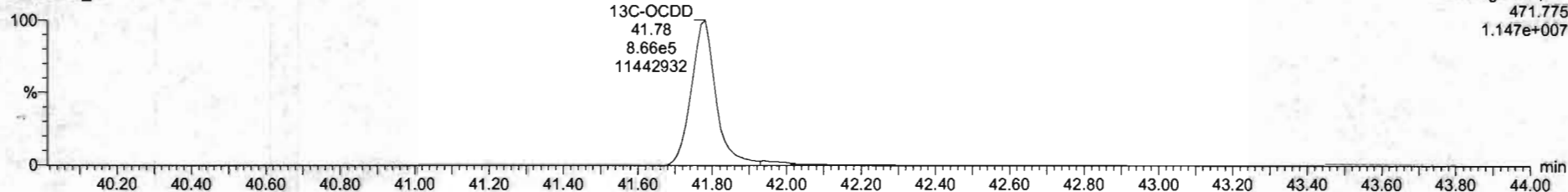


13C-OCDD

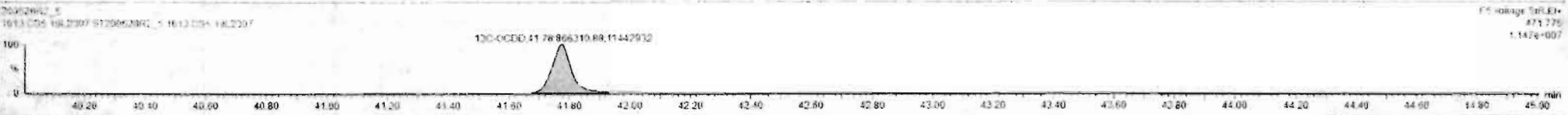
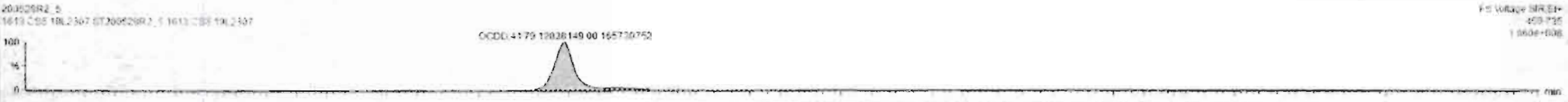
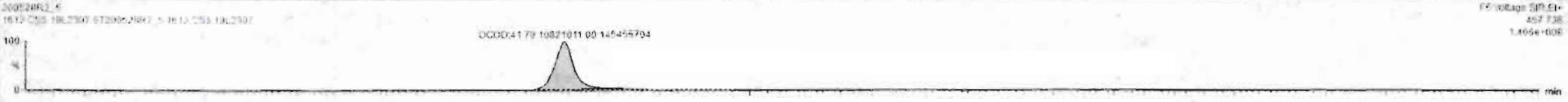
200528R2\_5



200528R2\_5



N	Name	Resp	RA	np	PRF	IntVal	IT	NRT	Comp	%Rec	DL	ENPL
1	2.3.7.8-TCD0	4.52e7	0.76	NO	0.6883	1.000	26.95	1.001	321	107	0.0511	321
2	1.2.3.7.8-FluCD0	1.58e7	0.63	NO	0.9051	1.000	31.61	1.000	1550	103	0.124	1550
3	1.2.3.4.7.8-HuCD0	1.47e7	1.23	NO	1.0234	1.000	34.08	1.000	1520	101	0.130	1520
4	1.2.3.8.7.8-HuCD0	1.61e7	1.21	NO	0.9523	1.000	34.99	1.000	1550	103	0.142	1550
5	1.2.3.7.8.9-HuCD0	1.47e7	1.22	NO	0.9265	1.000	35.27	1.000	1570	104	0.107	1570
6	1.2.3.4.6.7.8-HuCD0	1.15e7	1.01	NO	0.8639	1.000	36.61	1.000	1620	105	0.161	1620
7	OCDD	2.37e7	6.84	NO	0.9138	1.000	41.79	1.000	3100	103	0.379	3100
8	2.3.7.6-TCD0	0.00e0	0.75	NO	0.7510	1.000	45.65	1.001	325	105	0.0600	325
9	1.2.3.7.8-PeCDF	2.38e7	1.54	NO	0.8925	1.000	40.23	1.000	1570	101	0.231	1570
10	2.3.4.7.8-PeCDF	0.40e7	1.53	NO	0.9348	1.000	41.21	1.000	1550	101	0.213	1550
11	1.2.3.4.7.8-HuCDF	1.61e7	1.19	NO	0.8644	1.000	34.01	1.000	1590	106	0.103	1590
12	1.2.3.6.7.8-HuCDF	1.06e7	1.19	NO	0.8092	1.000	34.72	1.000	1535	101	0.0927	1535
13	2.3.4.6.7.8-HuCDF	1.72e7	1.19	NO	0.9341	1.000	34.72	1.001	1560	104	0.152	1560
14	1.2.3.7.8.9-HuCDF	1.49e7	1.26	NO	0.6707	1.000	35.83	1.000	1560	106	0.145	1560
15	1.2.3.4.6.7.8-HuCDF	1.28e7	1.09	NO	0.8734	1.000	37.40	1.000	1560	104	0.303	1560
16	1.2.3.4.7.8.9-HuCDF	1.05e7	1.00	NO	1.0172	1.000	38.34	1.000	1620	103	0.215	1620
17	OCDF	2.38e7	6.05	NO	0.8085	1.000	41.95	1.000	3090	101	0.250	3090
18	13C-2.3.7.8-TCD0	1.52e6	0.76	NO	1.1583	1.000	26.96	1.026	106	106	0.0720	106
19	13C-1.2.3.7.8-PeCDD	1.21e6	0.64	NO	0.8499	1.000	31.58	1.215	114	114	0.130	114
20	13C-1.2.3.4.7.8-PeCDD	6.34e5	1.28	NO	0.7750	1.000	34.97	1.014	110	110	0.191	110
21	13C-1.2.3.6.7.8-PeCDD	1.17e6	1.27	NO	1.0167	1.000	34.97	1.017	113	113	0.146	113



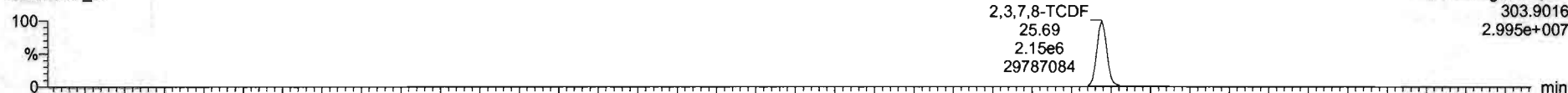
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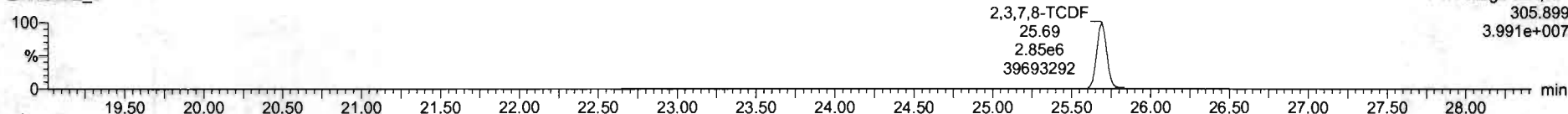
**2,3,7,8-TCDF**

200528R2\_5



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303.9016  
2.995e+007

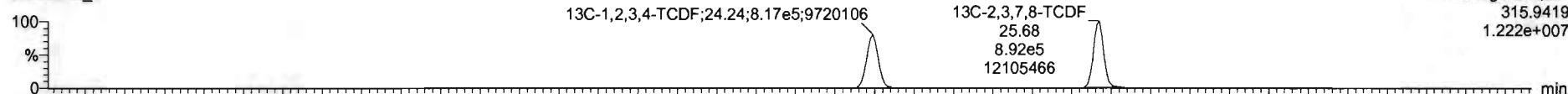
200528R2\_5



F1: Voltage SIR, EI+  
305.899  
3.991e+007

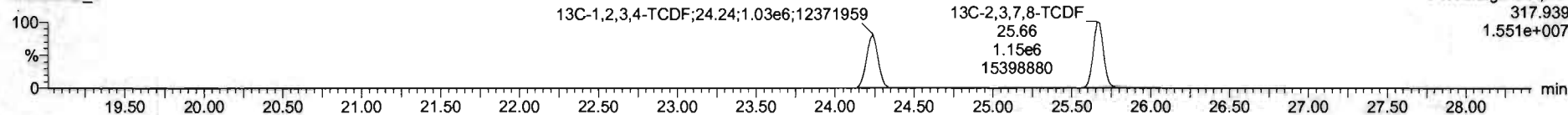
**13C-2,3,7,8-TCDF**

200528R2\_5



F1: Voltage SIR, EI+  
315.9419  
1.222e+007

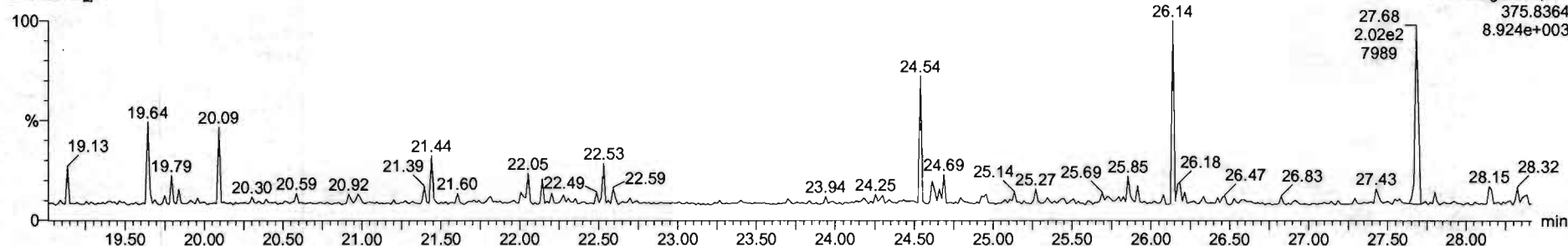
200528R2\_5



F1: Voltage SIR, EI+  
317.939  
1.551e+007

**DPE1**

200528R2\_5



F1: Voltage SIR, EI+  
375.8364  
8.924e+003



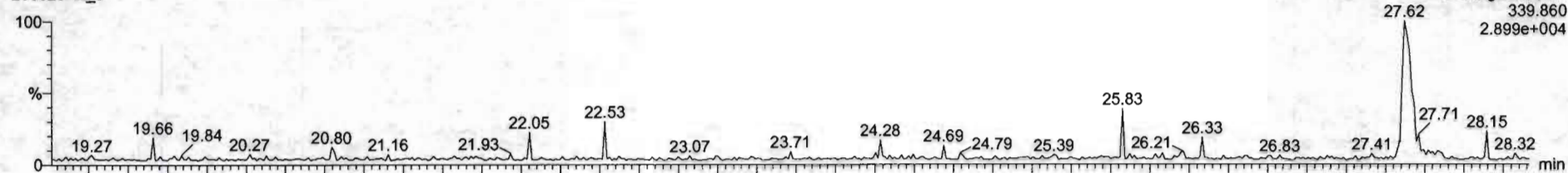
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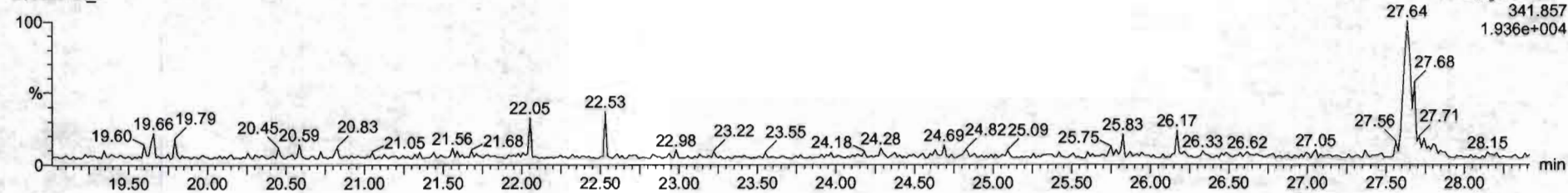
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200528R2\_5

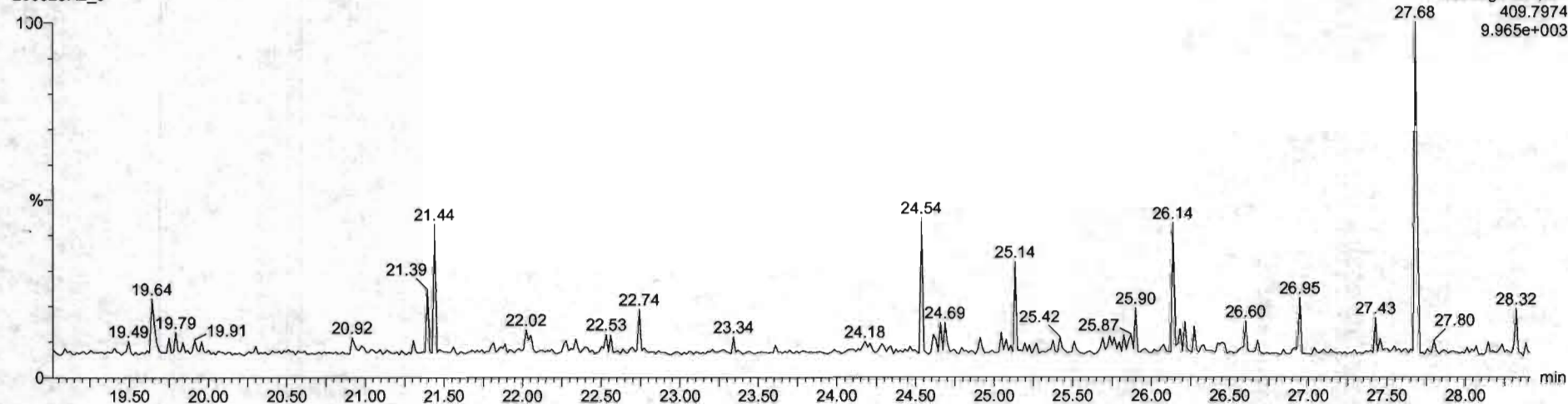


200528R2\_5



DPE6

200528R2\_5



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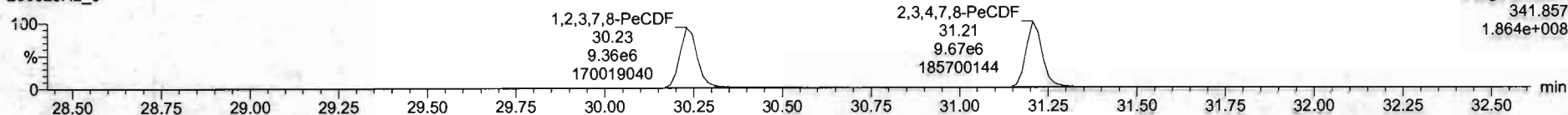
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**1,2,3,7,8-PeCDF**

200528R2\_5



200528R2\_5

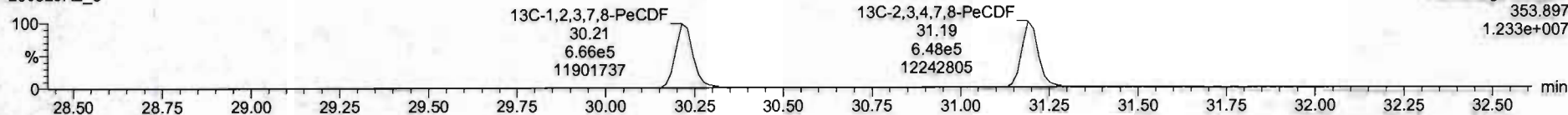


**13C-1,2,3,7,8-PeCDF**

200528R2\_5

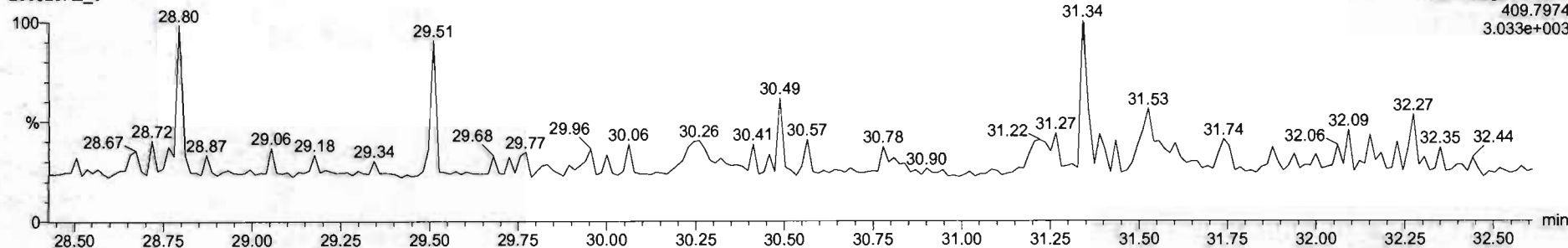


200528R2\_5



**DPE2**

200528R2\_5





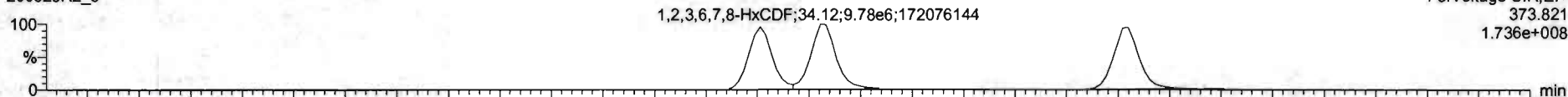
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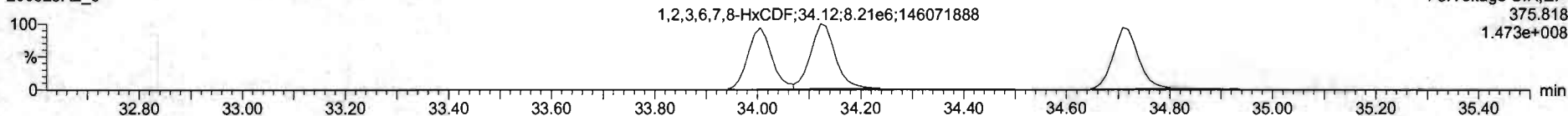
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**1,2,3,4,7,8-HxCDF**

200528R2\_5

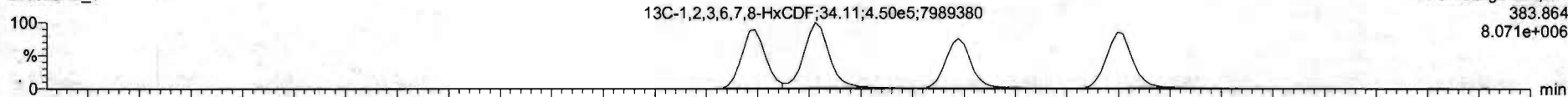


200528R2\_5

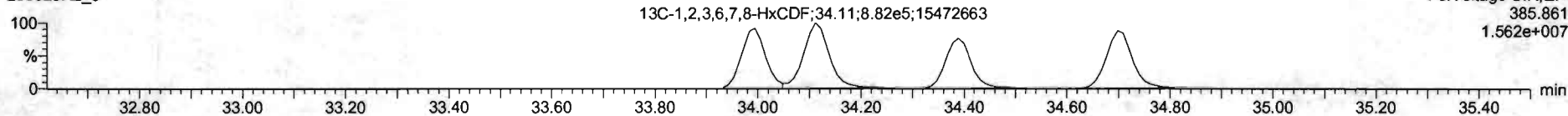


**13C-1,2,3,4,7,8-HxCDF**

200528R2\_5

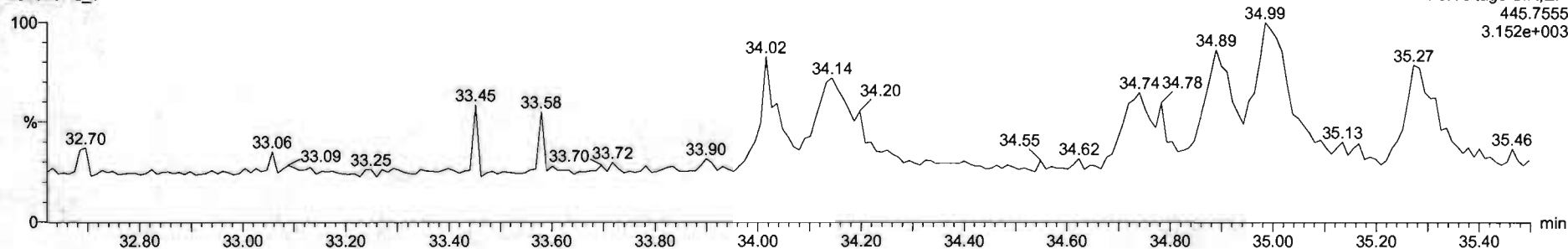


200528R2\_5



**DPE3**

200528R2\_5



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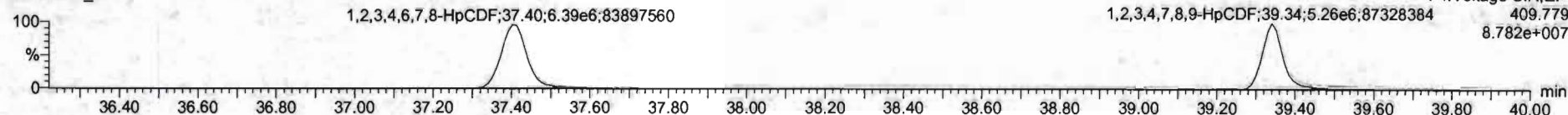
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**1,2,3,4,6,7,8-HpCDF**

200528R2\_5

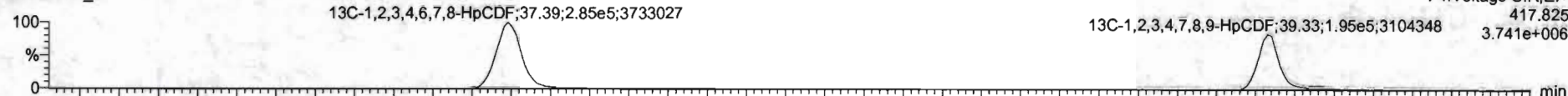


200528R2\_5

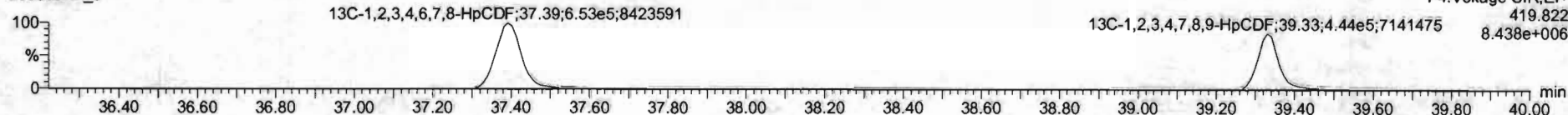


**13C-1,2,3,4,6,7,8-HpCDF**

200528R2\_5

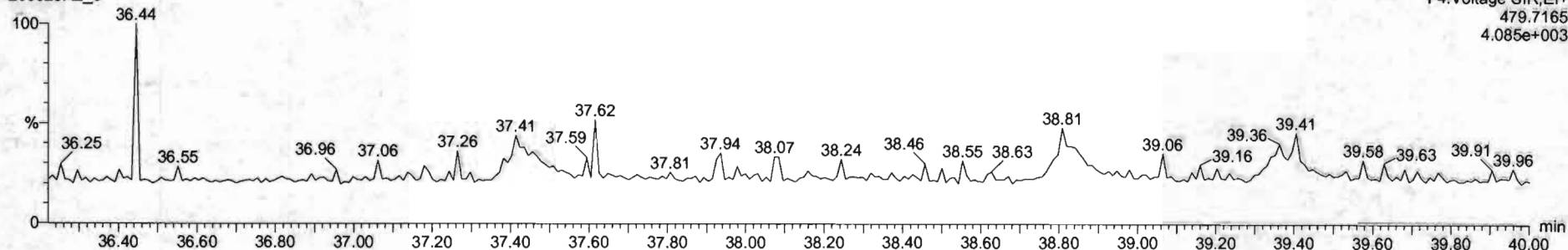


200528R2\_5



**DPE4**

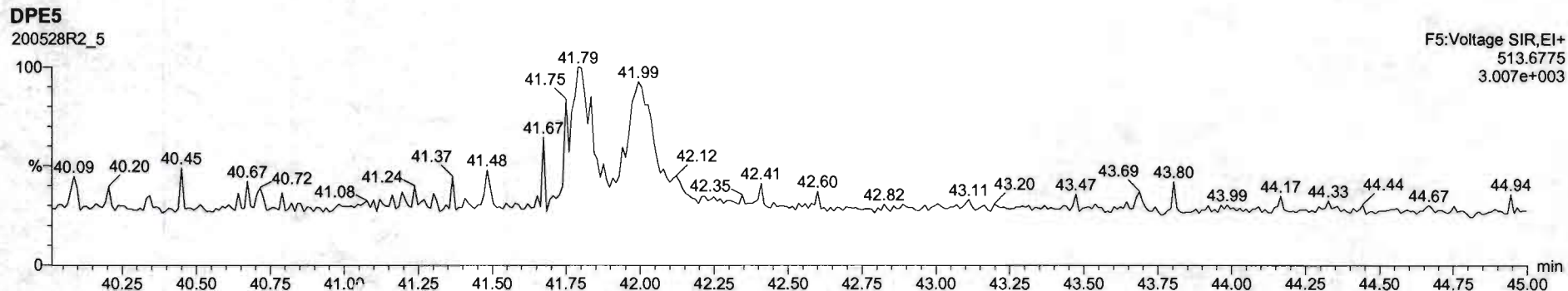
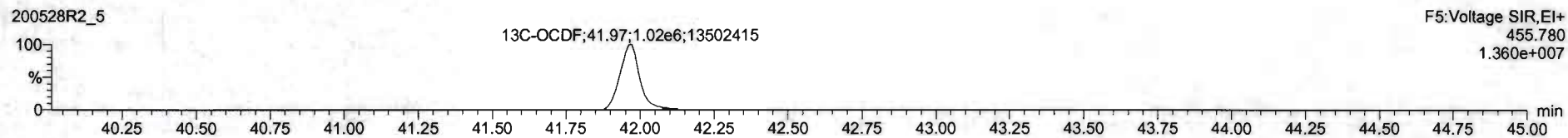
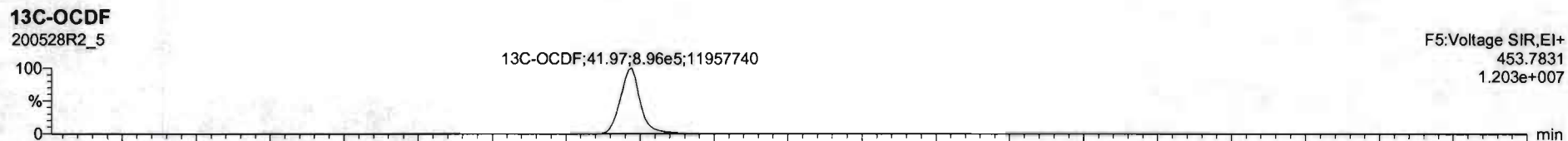
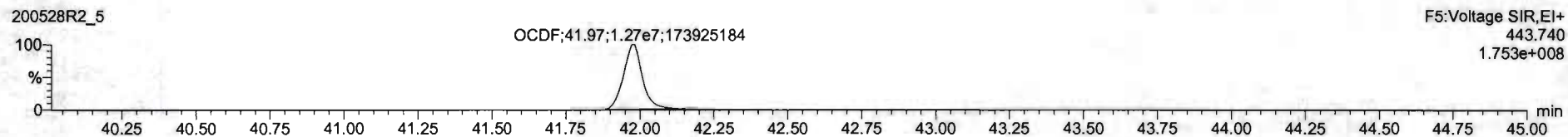
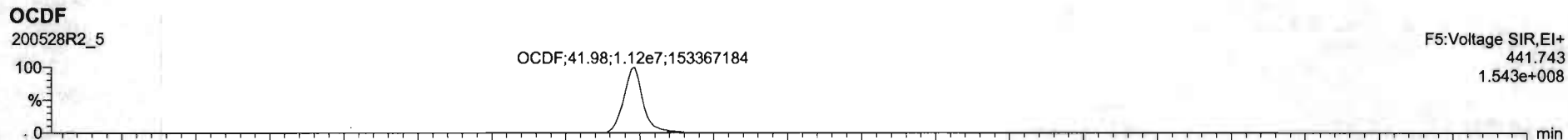
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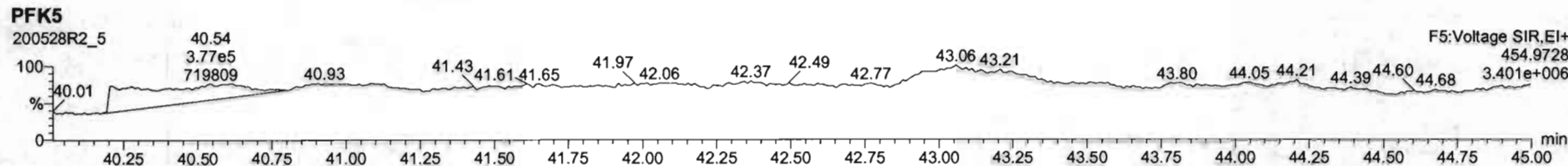
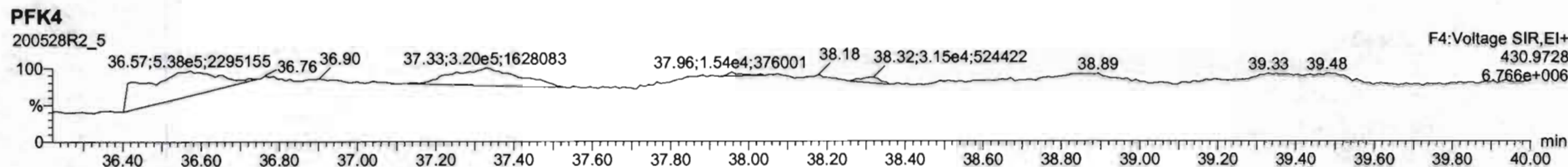
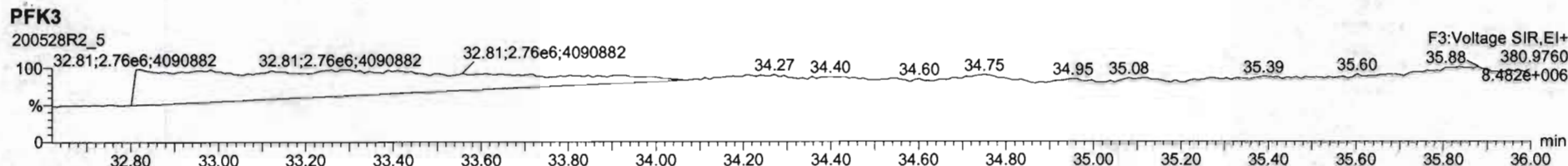
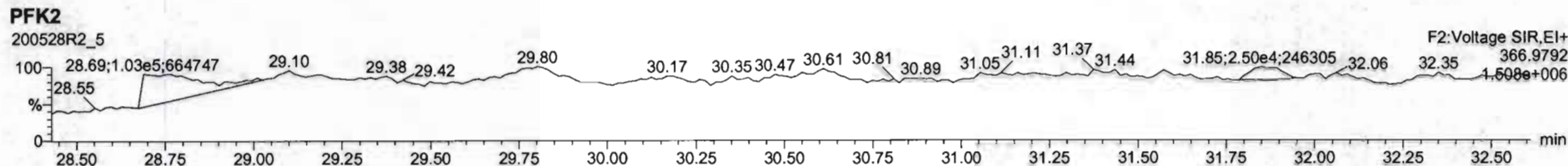
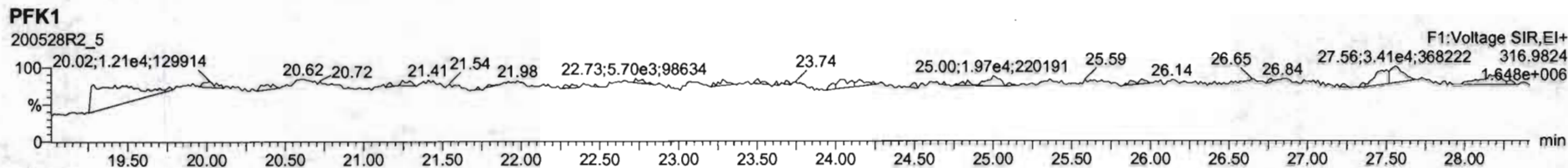




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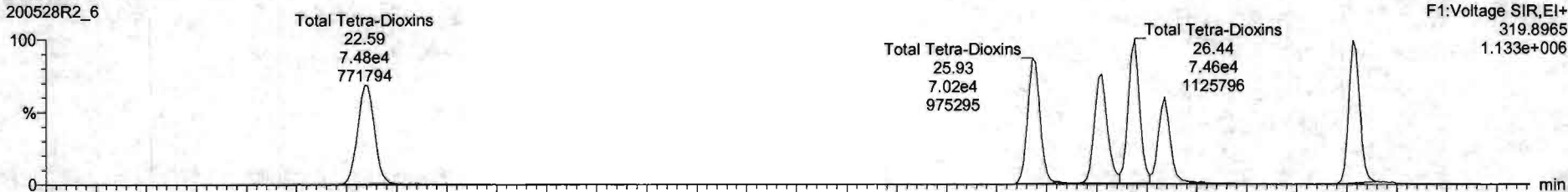
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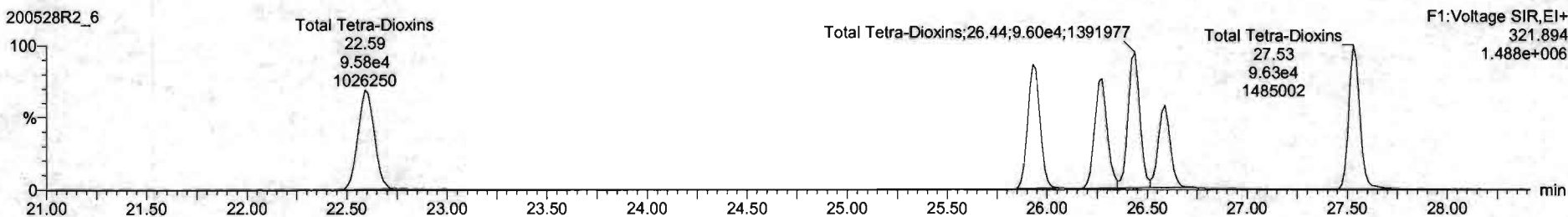
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2,3,7,8-TCDD

200528R2\_6



200528R2\_6

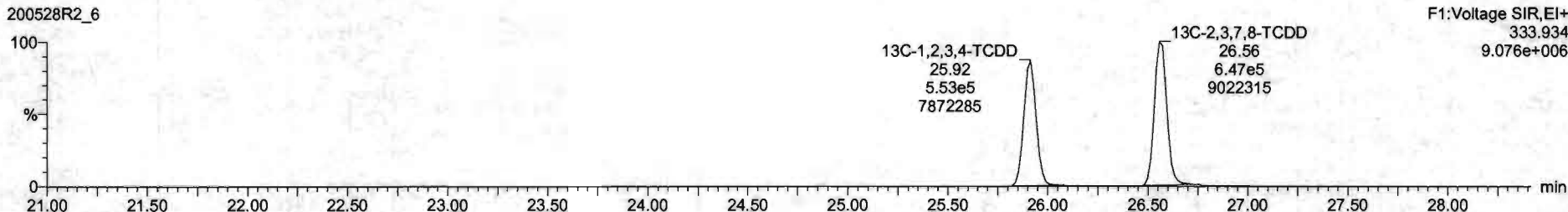


13C-2,3,7,8-TCDD

200528R2\_6



200528R2\_6



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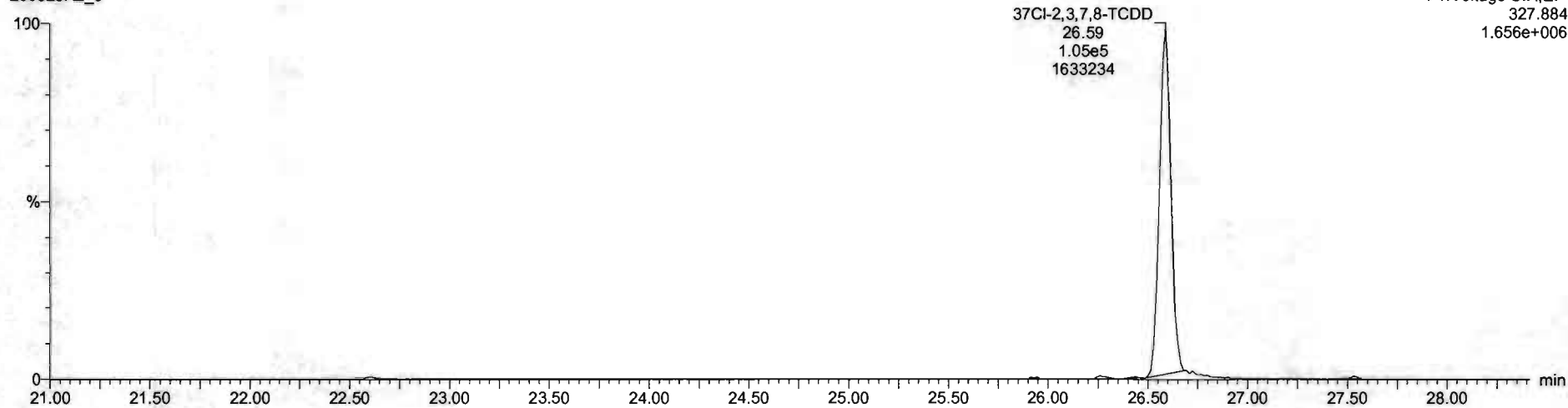
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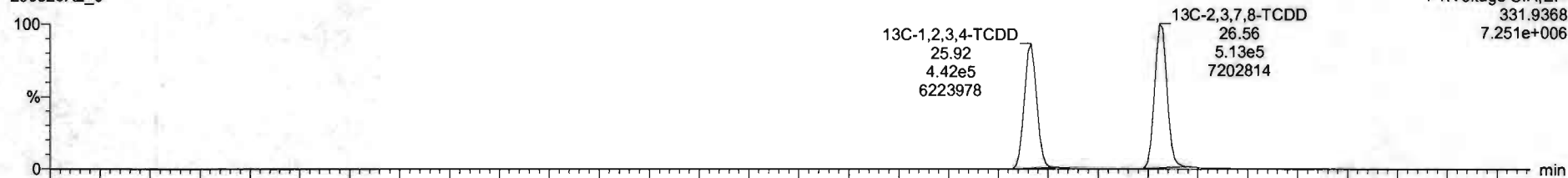
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200528R2\_6

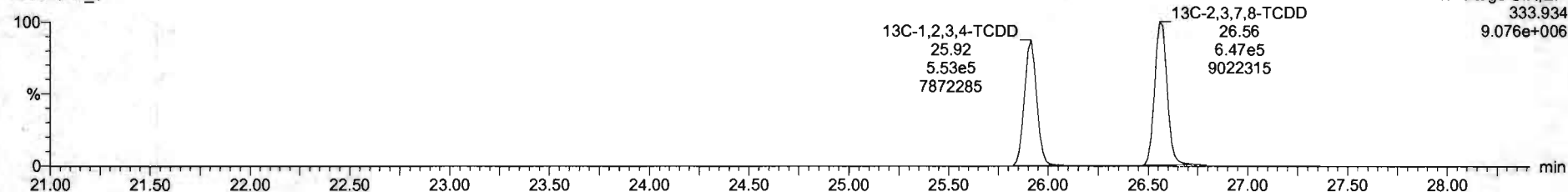


**13C-1,2,3,4-TCDD**

200528R2\_6



200528R2\_6





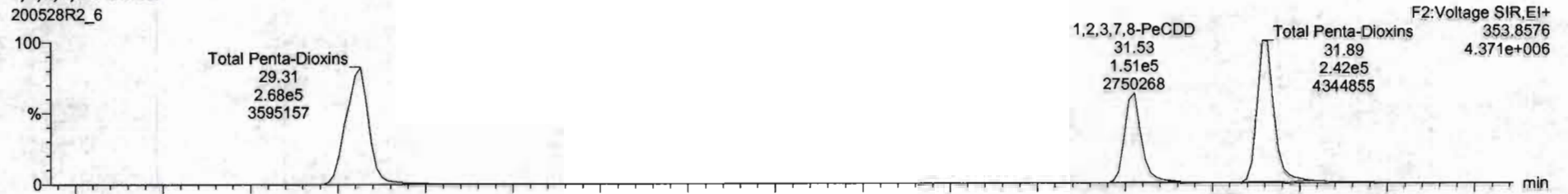
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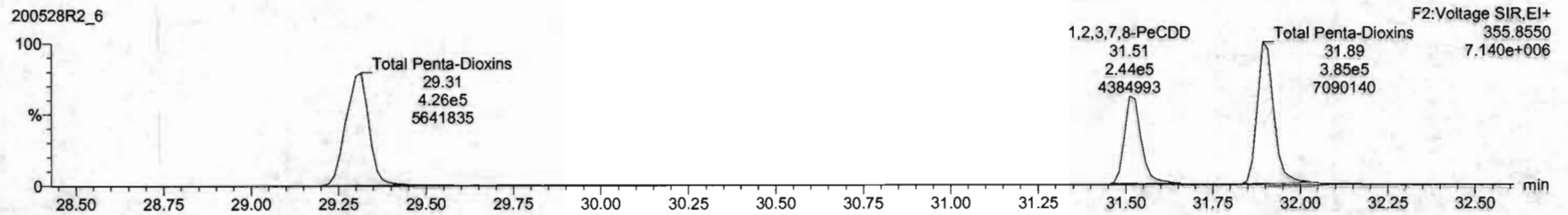
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1,2,3,7,8-PeCDD

200528R2\_6

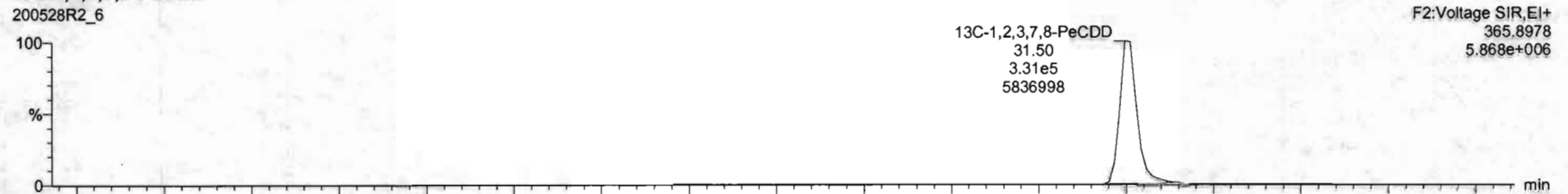


200528R2\_6

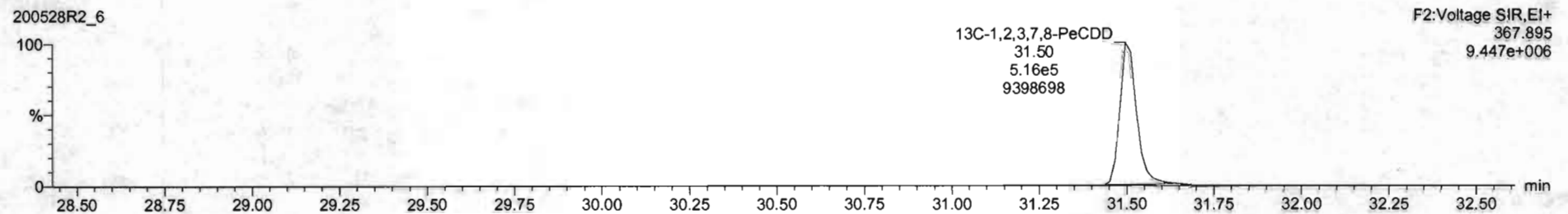


13C-1,2,3,7,8-PeCDD

200528R2\_6



200528R2\_6



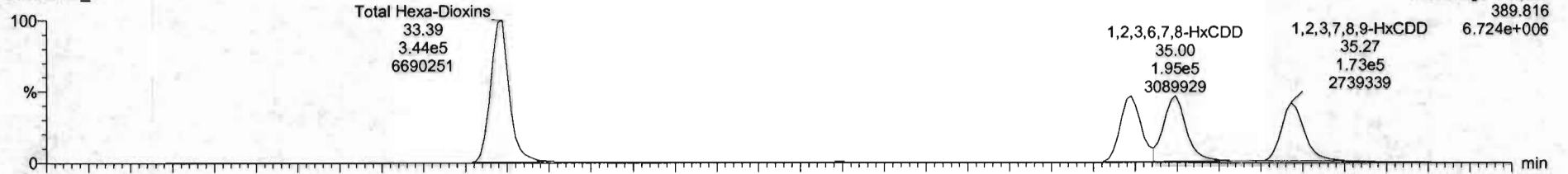
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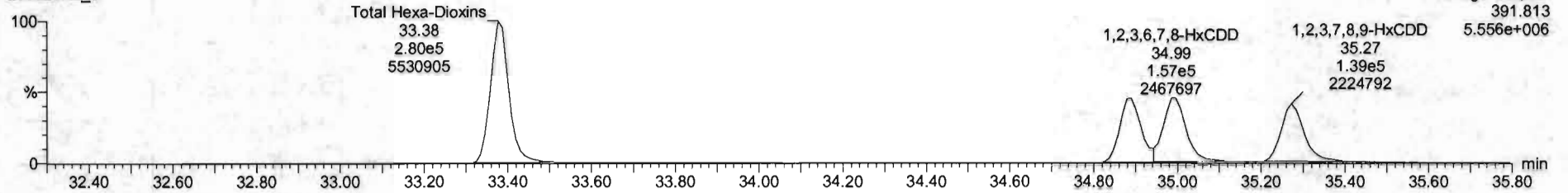
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**1,2,3,4,7,8-HxCDD**

200528R2\_6

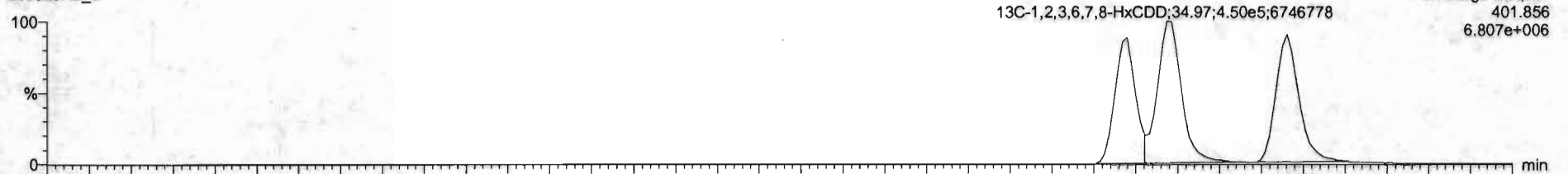


200528R2\_6

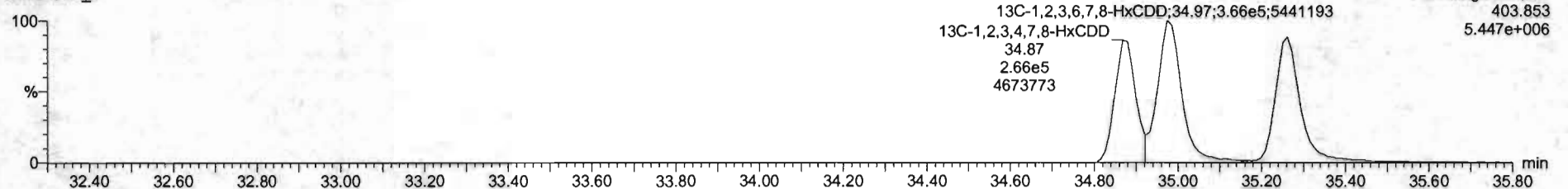


**13C-1,2,3,4,7,8-HxCDD**

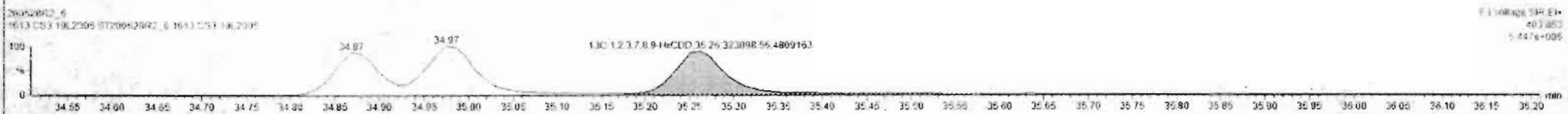
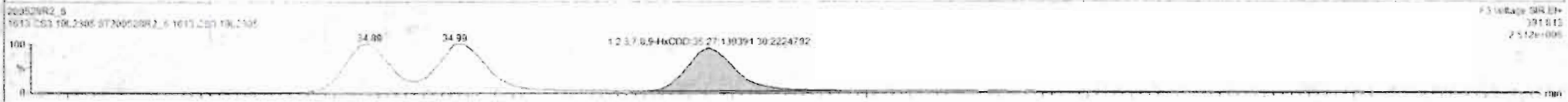
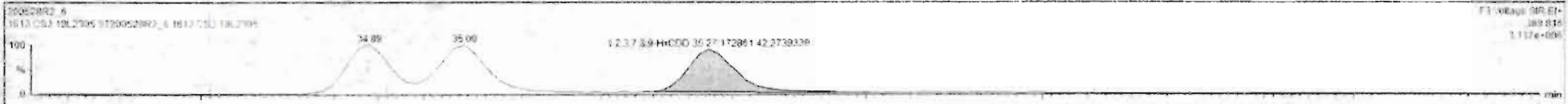
200528R2\_6



200528R2\_6



#	Name	Res#	RA	aly	RRT	sd/vol	RT	RRT	Conc.	%Rec	DL	LHPC
1	2,3,7,8-TCDD	1.06e5	0.91	NO	0.6203	1.000	25.59	1.001	10.2	102	0.0674	10.2
2	1,2,3,7,8-PeCDD	3.95e5	0.62	NO	0.9041	1.000	31.43	1.001	51.3	103	2.19e	51.3
3	1,2,3,4,7,8-HxCDD	7.25e5	1.22	NO	1.6334	1.000	34.89	1.000	52.1	104	0.220	52.1
4	1,2,3,6,7,8-HxCDD	3.51e5	1.24	NO	0.8901	1.000	34.20	1.001	48.3	96.8	0.271	48.3
5	1,2,3,7,8,9-HxCDD	3.12e5	1.24	NO	0.6669	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6	1,2,3,4,6,7,8-HpCDD	2.29e5	1.02	NO	0.9618	1.000	35.81	1.000	51.2	102	0.209	51.2
7	CDDX	4.53e5	0.38	NO	0.9136	1.000	41.78	1.000	102	102	0.206	102
8	2,3,7,8-TCDF	1.19e5	0.74	NO	0.7510	1.000	25.68	1.001	9.96	99.8	0.0613	9.96
9	1,2,3,7,8-PeCDF	5.72e5	1.57	NO	0.8905	1.000	30.25	1.000	51.2	102	0.130	51.2
10	1,2,3,7,8-PeCDF	4.81e5	1.57	NO	0.9348	1.000	31.22	1.000	49.3	101	0.130	50.3
11	1,2,3,4,7,8-HxCDF	3.98e5	1.21	NO	0.9548	1.000	34.07	1.000	51.1	102	0.191	51.1
12	1,2,3,6,7,8-HxCDF	4.22e5	1.25	NO	0.8662	1.000	34.13	1.000	51.8	104	0.179	51.8
13	1,2,3,4,6,7,8-HpCDF	3.88e5	1.25	NO	0.9341	1.000	34.72	1.000	51.9	104	0.197	51.9
14	1,2,3,7,8,9-HxCDF	2.98e5	1.22	NO	0.8767	1.000	35.63	1.000	51.1	102	0.201	51.1
15	1,2,3,4,6,7,8-HpCDF	2.84e5	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.201	51.4
16	1,2,3,4,7,8,9-HpCDF	2.00e5	0.80	NO	1.0125	1.000	38.34	1.000	52.7	105	0.258	52.7
17	CDFX	4.44e5	0.86	NO	0.8045	1.000	41.97	1.000	102	102	0.161	102
18	1,2,3,7,8,9-HxCDF	1.16e5	0.79	NO	1.1503	1.000	28.96	1.025	101	101	0.0990	
19	1,2,3,4,6,7,8-HpCDD	8.48e5	0.84	NO	0.8450	1.000	31.60	1.215	100	100	0.205	
20	1,2,3,4,7,8-HpCDD	8.04e5	1.27	NO	0.7790	1.000	34.88	1.014	98.9	98.9	0.188	
21	1,2,3,6,7,8-HpCDD	8.19e5	1.23	NO	1.0187	1.000	34.97	1.017	102	102	0.144	





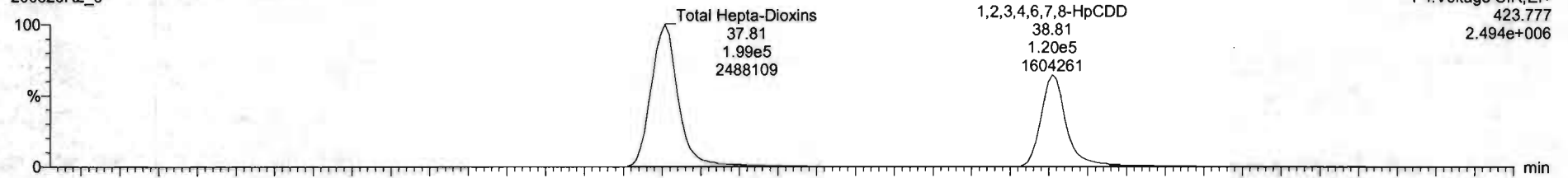
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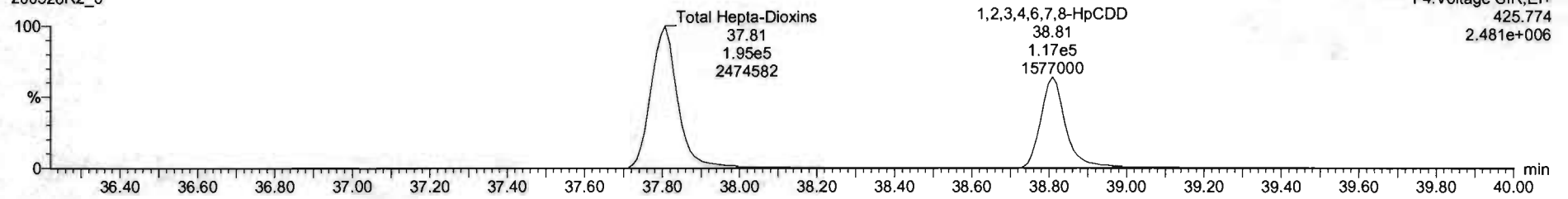
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1,2,3,4,6,7,8-HpCDD

200528R2\_6

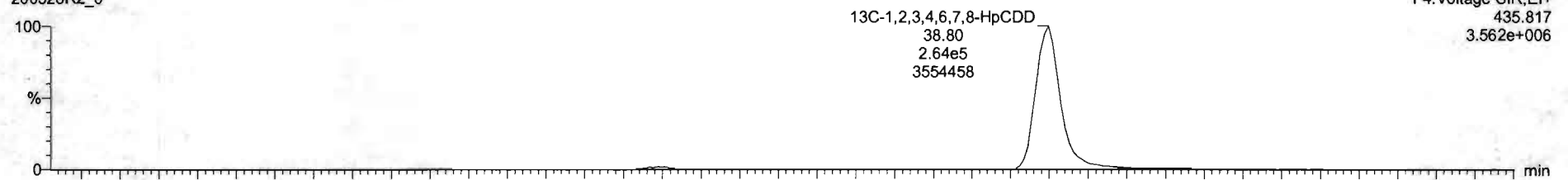


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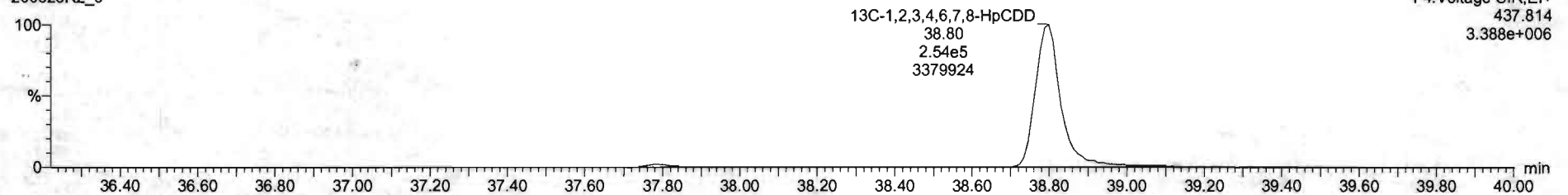


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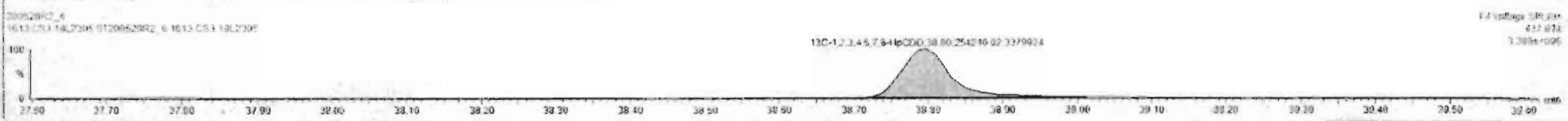
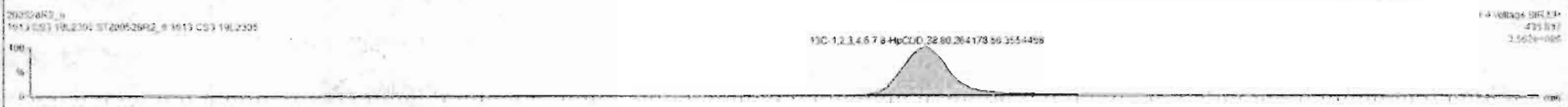
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200528R2\_6



#	Name	Resp	RA	inj	RRF	wtvol	HT	RR1	Conc	%Rec	OL	EMPC
1	1,2,3,4,5-HpCDD	1.96e5	0.81	NO	0.880	1.000	26.19	1.001	10.2	102	0.0664	10.0
2	1,2,3,4,6,7,8-HpCDD	3.95e5	0.82	NO	0.900	1.000	31.53	1.001	51.3	102	0.195	51.3
3	1,2,3,4,7,8-HpCDD	3.25e5	1.23	NO	1.034	1.000	34.89	1.006	52.1	104	0.255	52.1
4	1,2,3,4,7,8-HxCDD	3.51e5	1.24	NO	0.890	1.000	35.35	1.001	48.2	96.4	0.251	48.2
5	1,2,3,4,7,8,9-HxCDD	3.12e5	1.24	NO	1.525	1.000	35.27	1.000	49.9	99.8	0.204	49.9
6	1,2,3,4,6,7,8-HxCDD	3.95e5	1.03	NO	0.890	1.000	35.81	1.000	51.3	102	0.209	51.2
7	OCDF	4.53e5	0.98	NO	0.916	1.000	41.75	1.000	102	102	0.208	102
8	1,2,3,4,6,7,8-HxCDF	1.19e5	0.74	NO	0.710	1.000	25.69	1.001	9.90	99.8	0.0613	9.90
9	1,2,3,4,7,8-HpCDF	5.72e5	1.57	NO	0.890	1.000	30.25	1.000	51.0	102	0.150	51.0
10	1,2,3,4,7,8-HxCDF	5.81e5	1.57	NO	0.930	1.000	31.00	1.000	50.3	101	0.150	50.3
11	1,2,3,4,7,8,9-HxCDF	5.58e5	1.21	NO	0.850	1.000	34.01	1.000	51.1	102	0.151	51.1
12	1,2,3,6,7,8-HpCDF	4.22e5	1.25	NO	0.850	1.000	34.13	1.000	51.9	104	0.170	51.9
13	1,2,3,4,6,7,8-HxCDF	3.88e5	1.25	NO	0.904	1.000	34.72	1.000	51.9	104	0.157	51.9
14	1,2,3,7,8-HpCDF	3.98e5	1.22	NO	0.870	1.000	35.03	1.000	51.1	102	0.209	51.1
15	1,2,3,4,6,7,8-HpCDF	2.54e5	0.98	NO	0.870	1.000	37.41	1.001	51.4	103	0.201	51.4
16	1,2,3,4,7,8,9-HpCDF	2.30e5	0.98	NO	1.012	1.000	39.34	1.000	52.7	108	0.288	52.7
17	OCDF	4.44e5	0.85	NO	0.800	1.000	41.87	1.000	102	102	0.161	102
18	13C-1,2,3,4,7,8-HpCDD	1.16e5	0.79	NO	1.150	1.000	29.56	1.025	101	101	0.0980	
19	13C-1,2,3,4,7,8-HxCDD	3.48e5	0.84	NO	0.940	1.000	33.59	1.215	100	100	0.235	
20	13C-1,2,3,4,7,8-HpCDF	8.04e5	1.27	NO	0.770	1.000	34.58	1.014	98.9	98.9	0.188	
21	13C-1,2,3,6,7,8-HpCDF	8.15e5	1.23	NO	1.040	1.000	34.97	1.017	102	102	0.144	





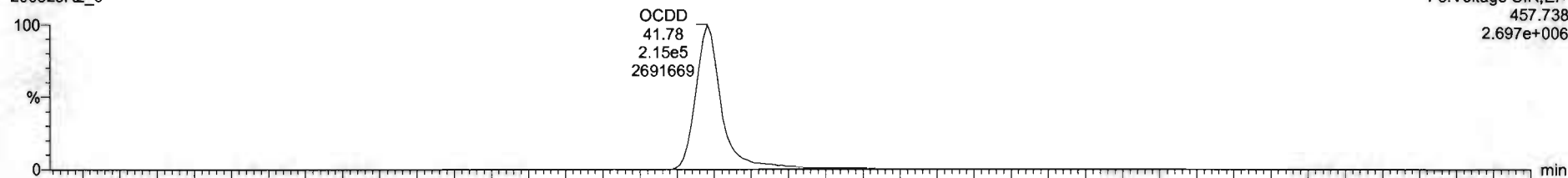
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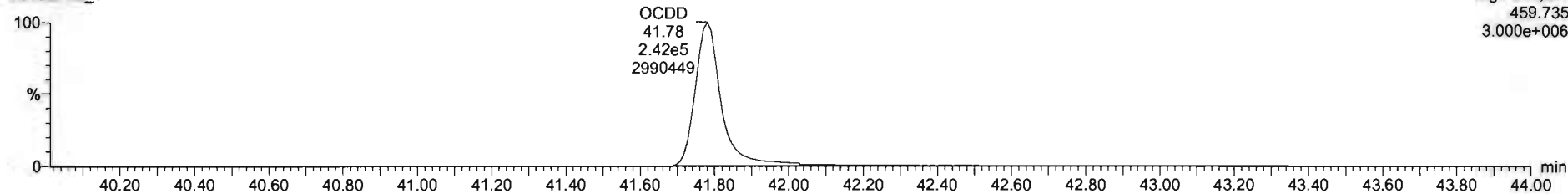
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**OCDD**

200528R2\_6

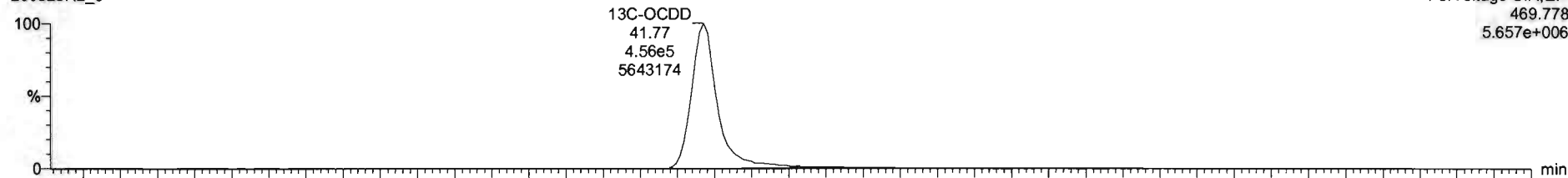


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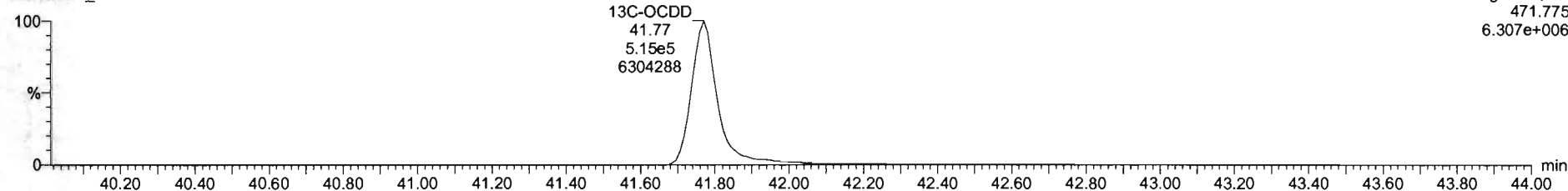


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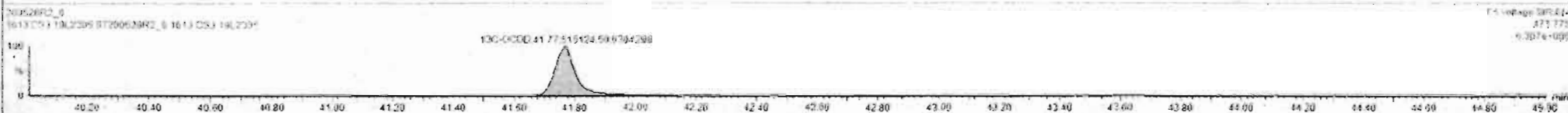
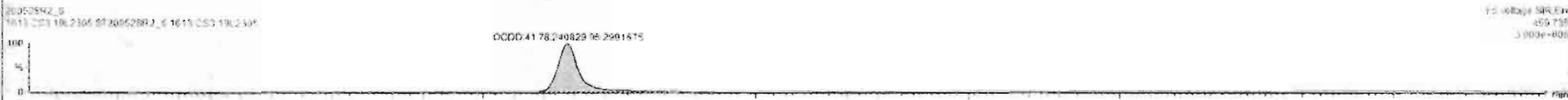
200528R2\_6



200528R2\_6



#	Name	Resp	RA	Qty	RHF	WVol	RT	RRT	Conc	%Rec	DL	EMFC
1	2,3,7,8-TCDD	1.96e6	0.21	NO	0.8843	1.000	26.19	1.001	10.2	102	0.0664	10.2
2	1,2,3,7,8-PeCDD	3.96e6	0.22	NO	0.9091	1.000	31.92	1.001	51.3	103	0.195	51.3
3	1,2,3,4,7,8-HxCDD	3.25e6	1.25	NO	1.0334	1.000	34.89	1.000	52.1	104	0.228	52.1
4	1,2,3,6,7,8-HxCDD	3.51e6	1.24	NO	0.8027	1.000	35.30	1.001	46.3	96.6	0.233	46.3
5	1,2,3,7,8,9-HxCDD	3.12e6	1.24	NO	0.9063	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6	1,2,3,4,6,7,8-HpCDD	7.36e6	1.52	NO	1.0881	1.000	36.81	1.000	71.1	100	0.266	71.1
7	OCDD	4.53e5	0.28	NO	0.9138	1.000	41.76	1.000	102	102	0.208	102
8	2,3,7,8-TCDF	1.19e6	0.24	NO	0.7510	1.000	25.89	1.001	3.96	99.6	0.0613	9.96
9	1,2,3,7,8-PeCDF	5.72e6	1.57	NO	0.8925	1.000	30.25	1.000	51.2	102	0.159	51.2
10	2,3,4,7,8-PeCDF	8.81e6	1.57	NO	0.9346	1.000	31.22	1.000	50.3	101	0.130	50.3
11	1,2,3,4,7,8-HxCDF	3.56e6	1.21	NO	0.8544	1.000	34.91	1.000	51.1	102	0.191	51.1
12	1,2,3,6,7,8-HxCDF	4.22e6	1.25	NO	0.8062	1.000	34.12	1.000	51.9	104	0.176	51.9
13	2,3,4,6,7,8-HxCDF	3.88e6	1.25	NO	0.9341	1.000	34.22	1.000	51.9	104	0.197	51.9
14	1,2,3,7,8,9-HxCDF	2.98e6	1.22	NO	0.8707	1.000	35.43	1.000	51.1	102	0.201	51.1
15	1,2,3,4,6,7,8-HpCDF	2.64e6	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.221	51.4
16	1,2,3,4,7,8,9-HeCDF	2.06e6	0.98	NO	1.0128	1.000	39.34	1.000	52.7	105	0.253	52.7
17	OCDF	4.44e6	0.86	NO	0.8045	1.000	41.87	1.000	102	102	0.161	102
18	13C-2,3,7,8-TCDD	1.16e6	0.79	NO	1.1563	1.000	26.96	1.025	101	101	0.0900	
19	13C-1,2,3,7,8-PeCDD	8.46e6	0.84	NO	0.8490	1.000	31.98	1.215	100	100	0.235	
20	13C-1,2,3,4,7,8-HxCDD	6.04e6	1.27	NO	0.7750	1.000	34.88	1.014	96.9	96.9	0.198	
21	13C-1,2,3,6,7,8-HxCDD	6.15e6	1.23	NO	1.0167	1.000	34.97	1.017	102	102	0.144	



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200528R2\_6

CAP NUM

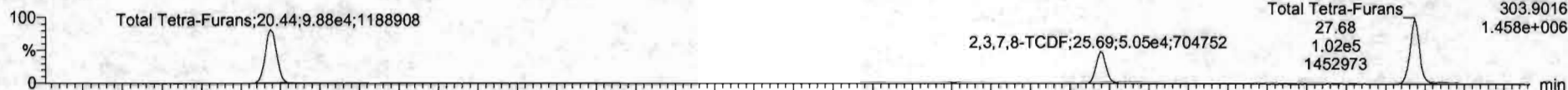
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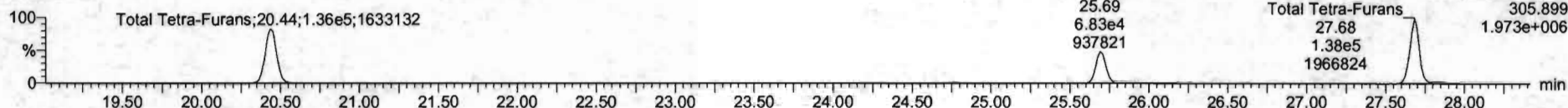
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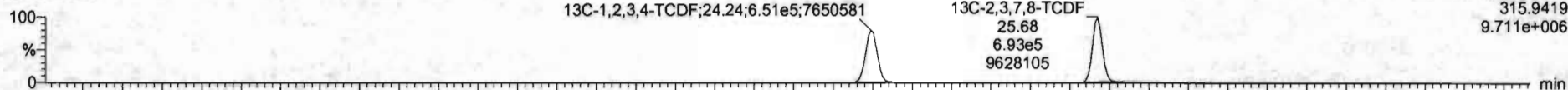


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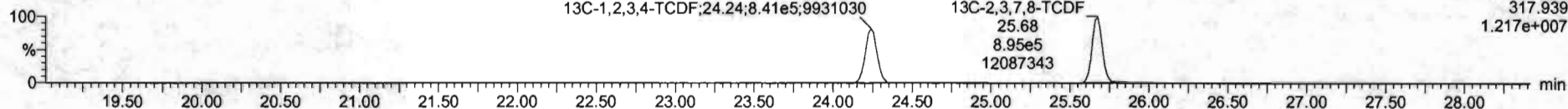


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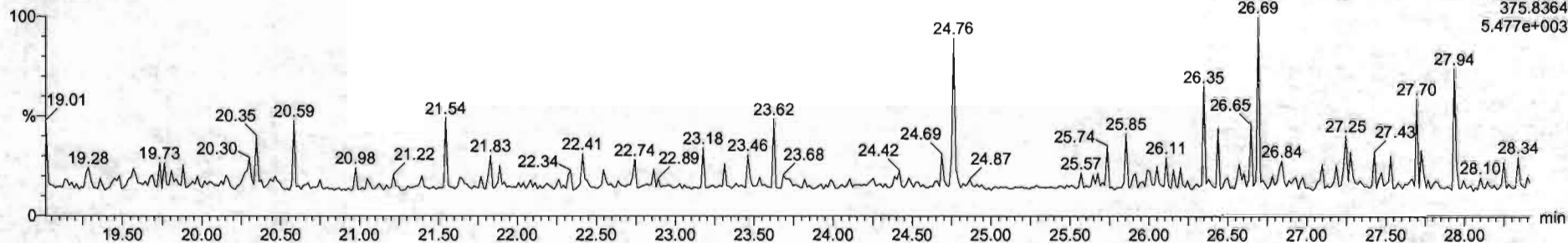


200528R2\_6



### DPE1

200528R2\_6



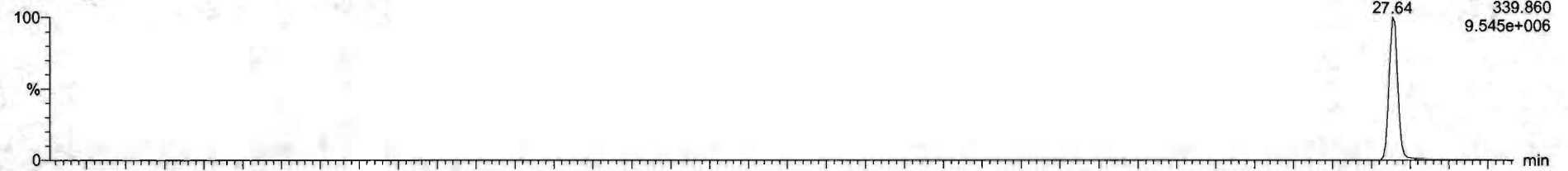
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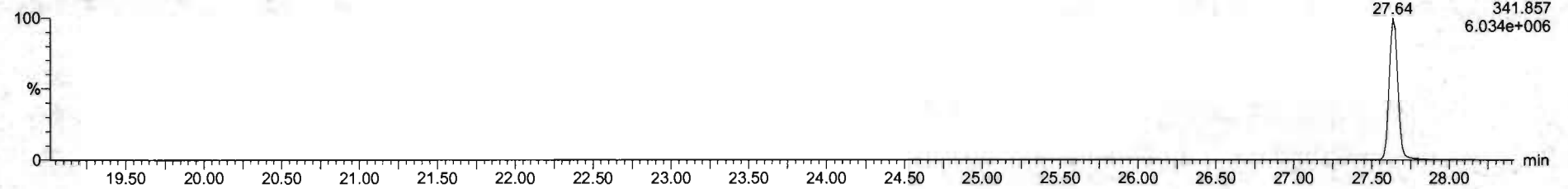
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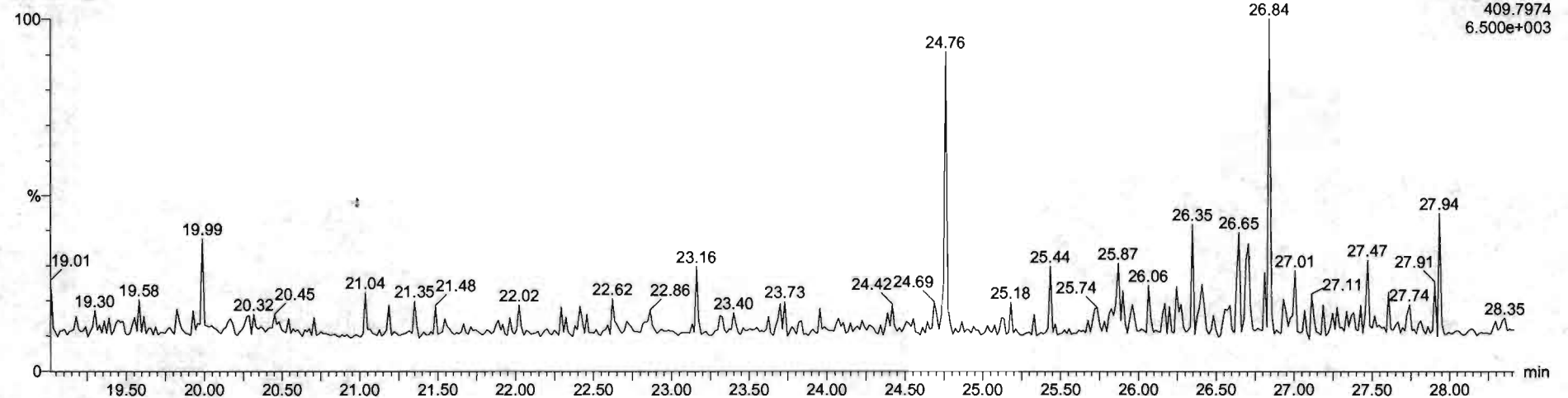


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DPE6

200528R2\_6



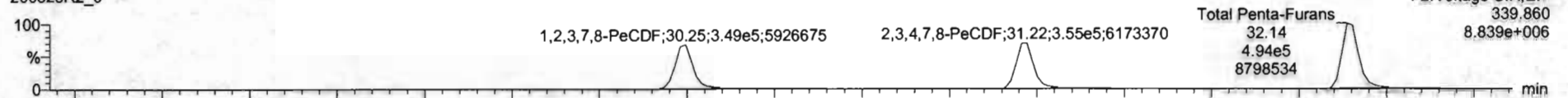
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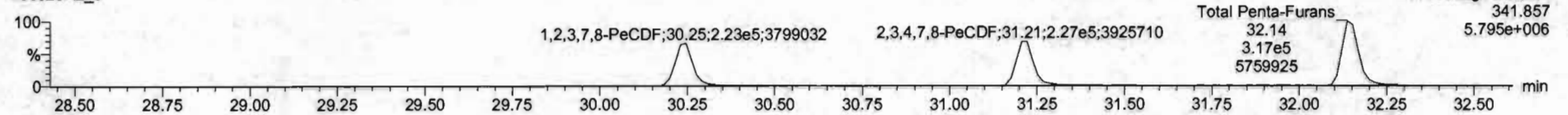
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**1,2,3,7,8-PeCDF**

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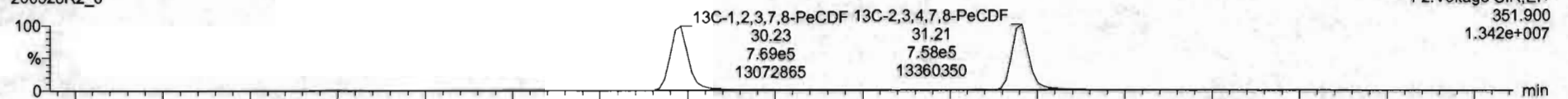


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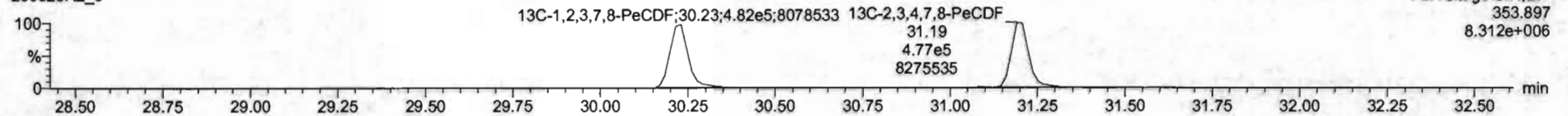


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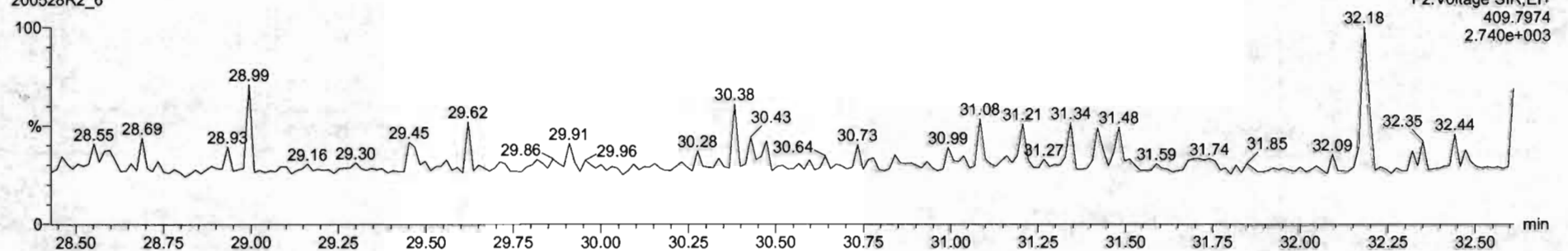


200528R2\_6



**DPE2**

200528R2\_6



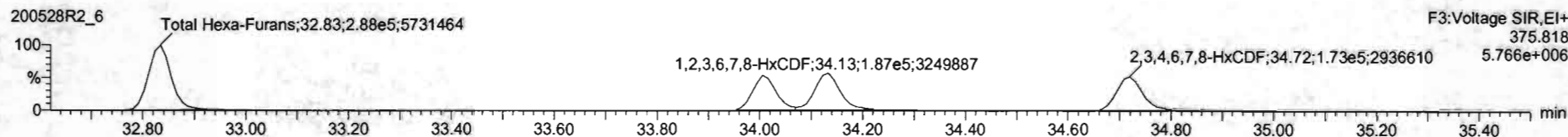
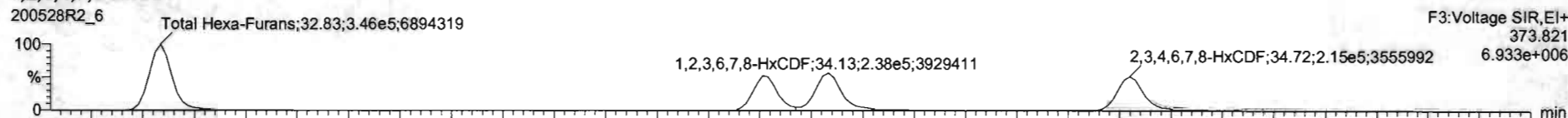


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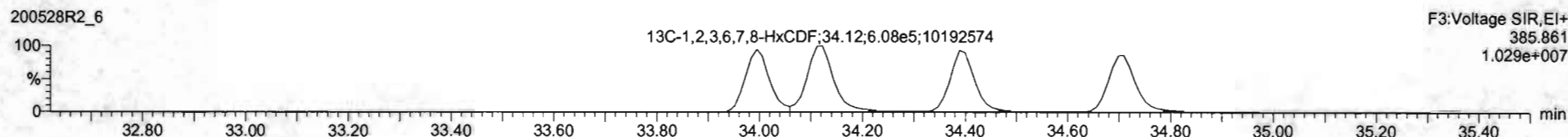
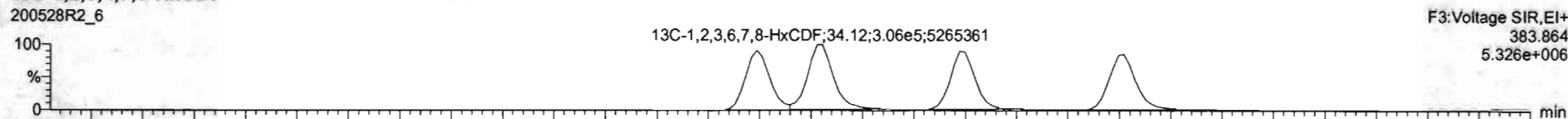
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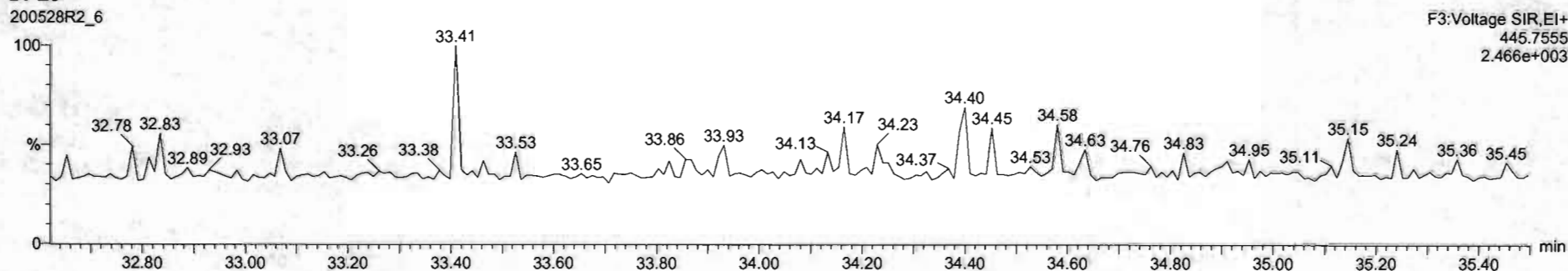
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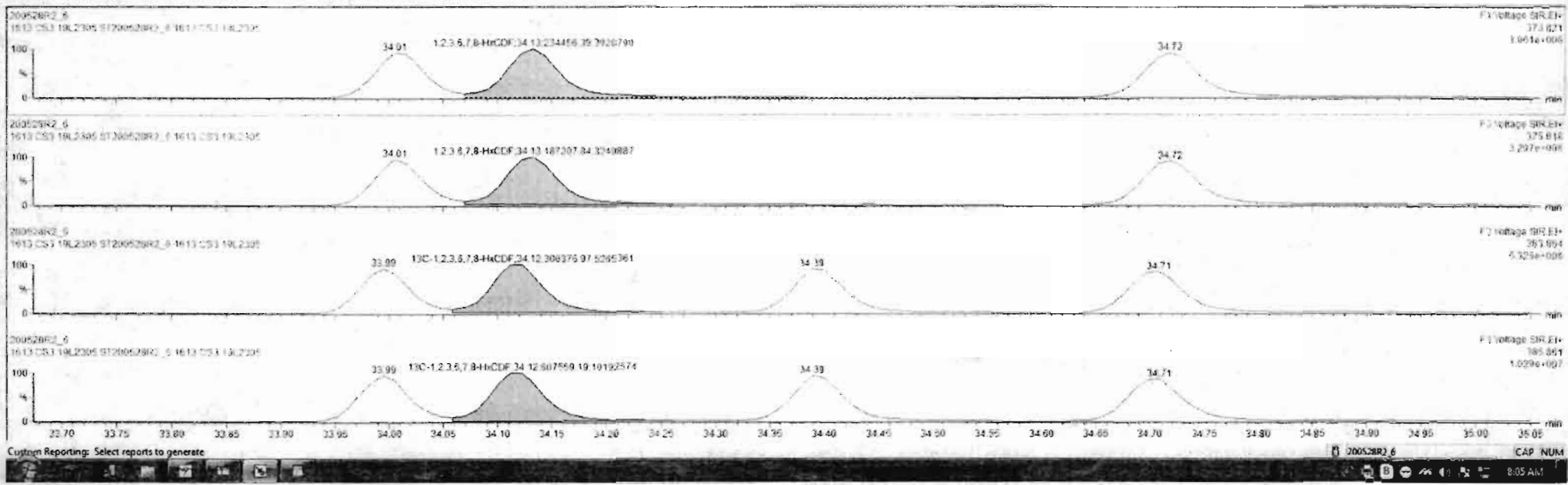
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**DPE3**



#	Name	Resp	RA	WV	RRF	WtVal	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.06e5	0.81	NO	0.6082	1.000	26.55	1.001	102	102	0.0664	10.2
2	1,2,3,7,8-PeCDD	1.56e5	0.82	NO	0.6081	1.000	31.53	1.001	51.3	103	0.194	51.3
3	1,2,3,4,7,8-HxCDD	0.25e5	1.23	NO	1.0334	1.000	34.89	1.000	32.1	104	0.220	52.1
4	1,2,3,6,7,8-HxCDD	0.31e5	1.24	NO	0.8923	1.000	25.00	1.001	48.3	96.6	0.231	48.3
5	1,2,3,7,8,9-HxCDD	0.12e5	1.24	NO	0.8269	1.000	35.27	1.000	45.9	99.8	0.264	45.9
6	1,2,3,4,6,7,8-HpCDD	0.26e5	1.01	NO	0.8838	1.000	26.61	1.000	51.2	102	0.209	51.2
7	OCDD	1.53e5	0.86	NO	0.5136	1.000	41.78	1.000	102	102	0.290	102
8	2,3,7,8-TCDF	1.19e5	0.74	NO	0.7510	1.000	25.69	1.001	9.90	99.8	0.0613	9.90
9	1,2,3,7,8-PeCDF	0.72e5	1.57	NO	0.8925	1.000	30.25	1.000	51.2	102	0.139	51.2
10	1,2,3,4,7,8-HxCDF	0.51e5	1.57	NO	0.9248	1.000	31.22	1.000	28.3	101	0.130	28.3
11	1,2,3,4,7,8-HxCDF	0.56e5	1.21	NO	0.8845	1.000	34.01	1.000	51.1	102	0.191	51.1
12	1,2,3,6,7,8-HxCDF	0.22e5	1.25	NO	0.8092	1.000	34.13	1.000	51.9	104	0.170	51.9
13	1,2,3,4,6,7,8-HpCDF	1.58e5	1.25	NO	0.9241	1.000	34.72	1.000	51.9	104	0.197	51.9
14	1,2,3,7,8,9-HxCDF	0.98e5	1.22	NO	0.8707	1.000	35.83	1.000	51.1	102	0.201	51.1
15	1,2,3,4,6,7,8-HpCDF	2.64e5	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.221	51.4
16	1,2,3,4,7,8,9-HpCDF	0.20e5	0.86	NO	1.0100	1.000	39.34	1.000	52.7	105	0.268	52.7
17	OCDF	1.44e5	0.86	NO	0.8085	1.000	41.97	1.000	102	102	0.141	102
18	13C-2,3,7,8-TCDD	1.16e6	0.79	NO	1.1583	1.000	26.56	1.026	101	101	0.0890	
19	13C-1,2,3,7,8-PeCDD	0.48e5	0.64	NO	0.8490	1.000	31.50	1.215	100	100	0.235	
20	13C-1,2,3,4,7,8-HxCDD	0.04e5	1.27	NO	0.7790	1.000	34.86	1.014	98.9	98.9	0.188	
21	13C-1,2,3,6,7,8-HxCDD	0.15e5	1.23	NO	1.0187	1.000	34.97	1.017	102	102	0.144	



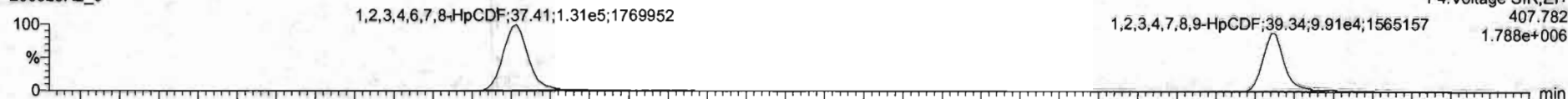
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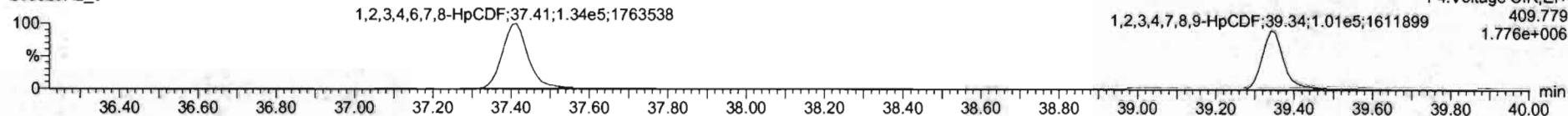
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**1,2,3,4,6,7,8-HpCDF**

200528R2\_6

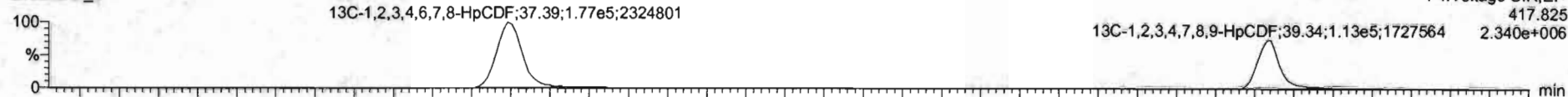


200528R2\_6

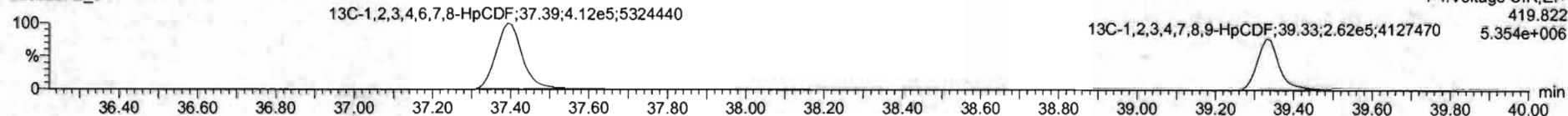


**13C-1,2,3,4,6,7,8-HpCDF**

200528R2\_6

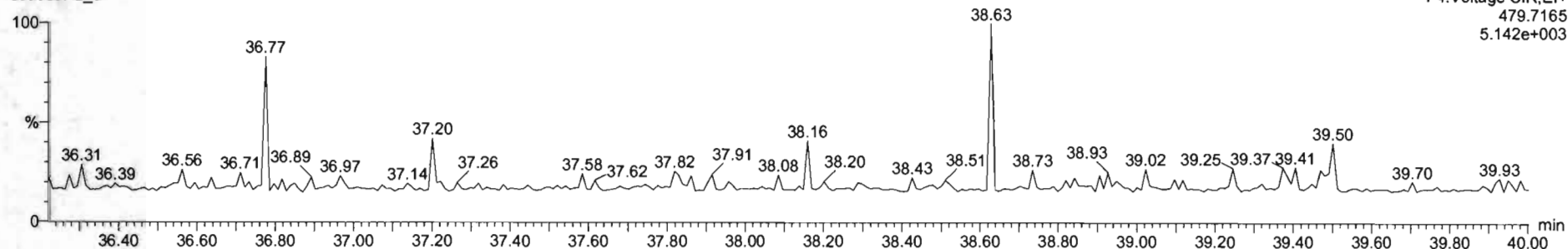


200528R2\_6



**DPE4**

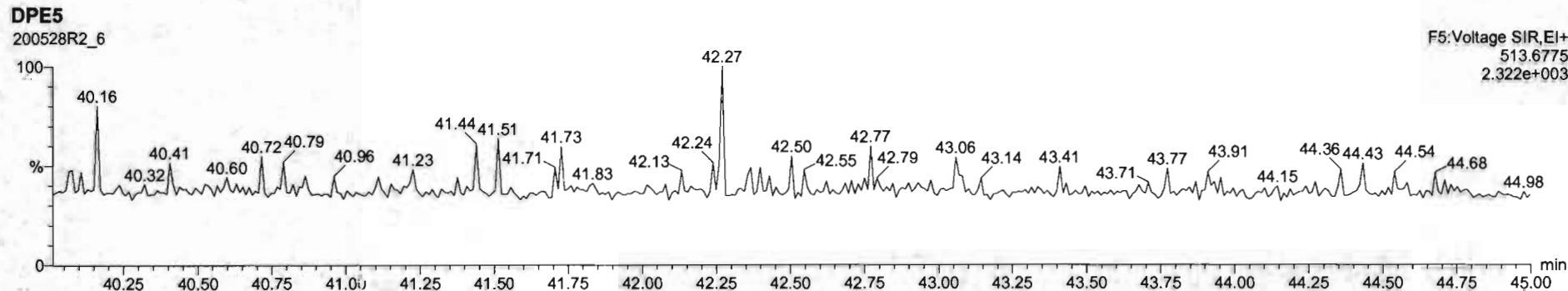
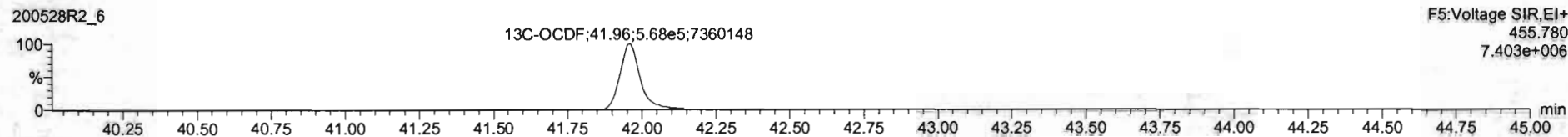
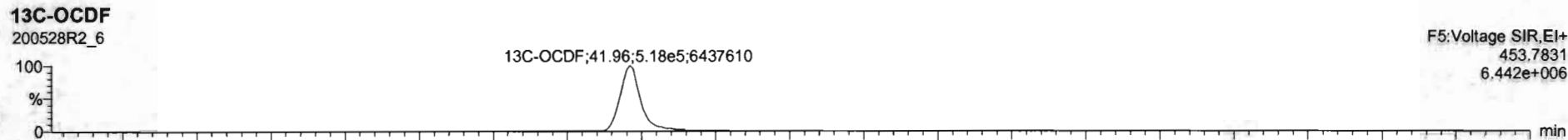
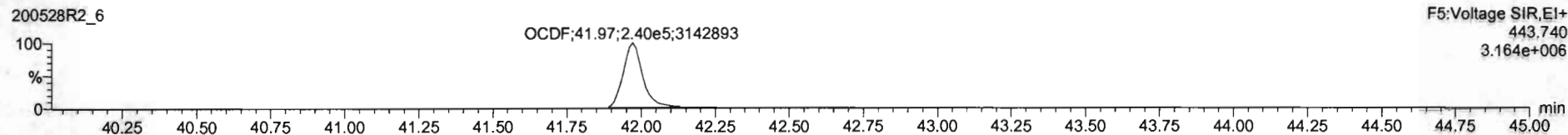
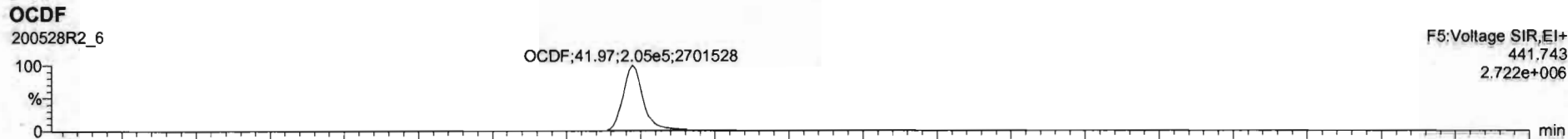
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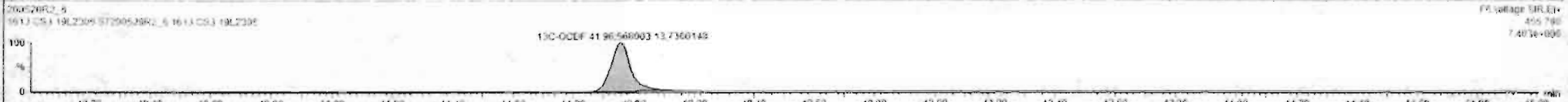
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Name: 200528R2\_6, Date: 28-May-2020, Time: 15:58:32, ID: ST200528R2\_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305





#	Name	Resp	RA	Qty	RRF	Wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.05e5	0.81	NO	0.8503	1.000	26.19	1.001	10.2	102	0.0664	10.2
2	1,2,3,7,8-PeCDD	3.56e5	0.62	NO	0.8091	1.000	31.53	1.001	51.3	103	0.195	51.3
3	1,2,3,4,7,8-HxCDD	0.25e5	1.23	NO	1.0334	1.000	34.99	1.000	52.1	104	0.228	52.1
4	1,2,3,6,7,8-HxCDD	0.51e5	1.34	NO	0.8921	1.000	35.00	1.001	48.3	96.6	0.231	48.3
5	1,2,3,7,8,9-HxCDD	0.12e5	1.24	NO	0.8265	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6	1,2,3,4,6,7,8-HpCDD	1.0e5	1.01	NO	1.9839	1.000	36.81	1.000	73.2	102	0.409	73.2
7	OCDD	4.53e5	0.68	NO	0.9136	1.000	41.78	1.000	102	102	0.206	102
8	2,3,7,8-TCDF	1.19e5	0.74	NO	0.7510	1.000	25.69	1.001	9.98	99.8	0.0613	9.96
9	1,2,3,7,8-PeCDF	5.72e5	1.57	NO	0.8925	1.000	30.24	1.000	51.2	102	0.139	51.2
10	1,2,3,4,7,8-HxCDF	0.61e5	1.57	NO	0.9348	1.000	31.22	1.000	40.3	101	0.150	40.3
11	1,2,3,4,7,8-HxCDF	3.56e5	1.31	NO	0.8545	1.000	34.81	1.000	41.1	103	0.191	41.1
12	1,2,3,6,7,8-HxCDF	4.22e5	1.25	NO	0.8282	1.000	34.13	1.000	51.9	104	0.176	51.9
13	2,3,4,6,7,8-HxCDF	3.08e5	1.25	NO	0.9341	1.000	34.72	1.000	51.8	104	0.187	51.8
14	1,2,3,7,8,9-HxCDF	2.98e5	1.22	NO	0.8787	1.000	34.83	1.000	41.1	102	0.291	41.1
15	1,2,3,4,6,7,8-HpCDF	2.64e5	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.221	51.4
16	1,2,3,4,7,8,9-HpCDF	2.00e5	0.98	NO	1.0128	1.000	39.34	1.000	52.7	102	0.258	52.7
17	OCDF	4.44e5	0.85	NO	0.6085	1.000	41.97	1.000	102	102	0.191	102
18	13C-2,3,7,8-TCDD	1.16e6	0.79	NO	1.1523	1.000	26.96	1.024	101	101	0.0680	
19	13C-1,2,3,7,8-PeCDD	6.48e5	0.64	NO	0.8456	1.000	31.56	1.215	100	100	0.235	
20	13C-1,2,3,4,7,8-HxCDD	6.04e5	1.27	NO	0.7790	1.000	34.88	1.014	98.9	98.9	0.168	
21	13C-1,2,3,6,7,8-HxCDD	6.15e5	1.23	NO	1.0187	1.000	34.97	1.017	102	102	0.144	

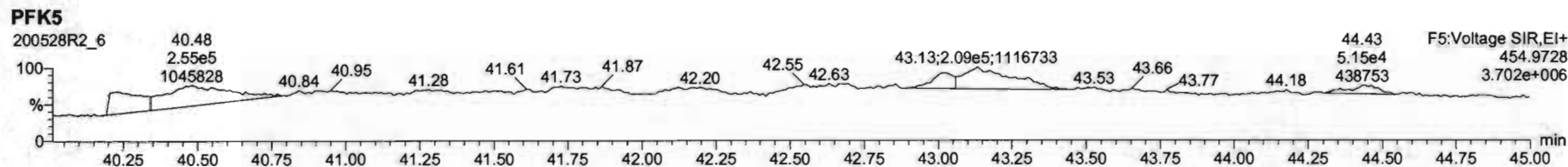
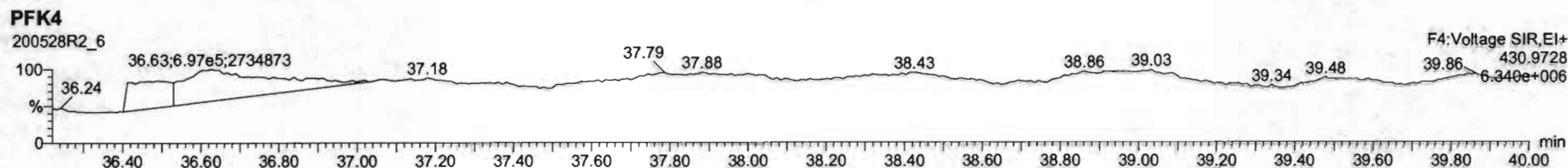
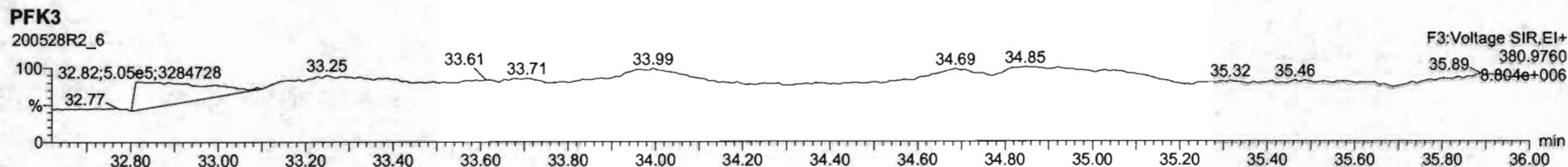
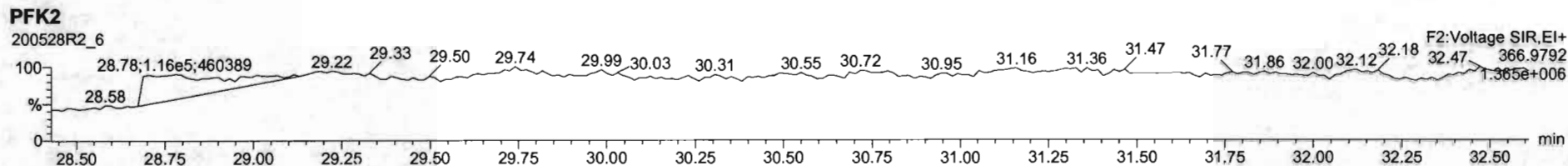
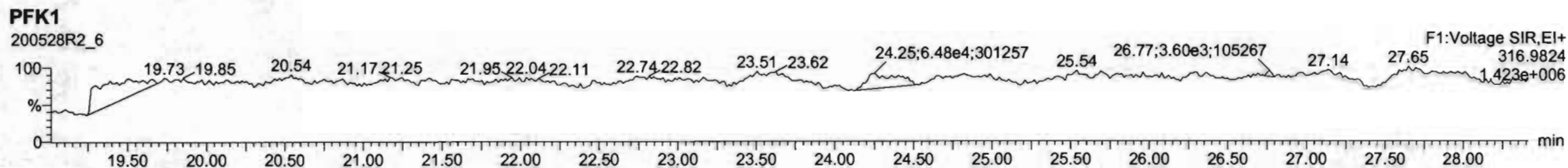




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Name: 200528R2\_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2\_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305



Dataset: U:\VG12.PRO\Results\200528R2\200528R2-8.qld

Last Altered: Friday, May 29, 2020 7:44:05 AM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:44:35 AM Pacific Daylight Time

*GRB 05/29/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.24e5	0.78	NO	0.888	1.000	26.575	26.57	1.001	1.001	11.080	111	0.0262	11.1
2	2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.908	1.000	31.518	31.51	1.001	1.000	56.429	113	0.0622	56.4
3	3 1,2,3,4,7,8-HxCDD	3.86e5	1.22	NO	1.03	1.000	34.879	34.88	1.000	1.000	58.033	116	0.101	58.0
4	4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.892	1.000	34.975	34.99	1.000	1.000	57.963	116	0.105	58.0
5	5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.887	1.000	35.262	35.26	1.000	1.000	57.107	114	0.119	57.1
6	6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.864	1.000	38.799	38.80	1.000	1.000	55.832	112	0.168	55.8
7	7 OCDD	5.15e5	0.88	NO	0.914	1.000	41.759	41.78	1.000	1.001	111.26	111	0.171	111
8	8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.751	1.000	25.671	25.68	1.001	1.001	11.386	114	0.0333	11.4
9	9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.893	1.000	30.236	30.23	1.001	1.001	55.728	111	0.0942	55.7
10	10 2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.935	1.000	31.222	31.21	1.001	1.000	60.229	120	0.0851	60.2
11	11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.884	1.000	33.984	33.99	1.000	1.000	55.936	112	0.113	55.9
12	12 1,2,3,6,7,8-HxCDF	5.08e5	1.18	NO	0.889	1.000	34.122	34.12	1.000	1.000	56.761	114	0.107	56.8
13	13 2,3,4,6,7,8-HxCDF	4.49e5	1.21	NO	0.934	1.000	34.732	34.71	1.001	1.000	56.468	113	0.117	56.5
14	14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.871	1.000	35.614	35.62	1.000	1.000	55.299	111	0.174	55.3
15	15 1,2,3,4,6,7,8-HpCDF	3.01e5	1.01	NO	0.873	1.000	37.430	37.40	1.001	1.000	54.506	109	0.182	54.5
16	16 1,2,3,4,7,8,9-HpCDF	2.38e5	1.00	NO	1.01	1.000	39.331	39.34	1.000	1.000	57.740	115	0.198	57.7
17	17 OCDF	5.22e5	0.87	NO	0.806	1.000	41.951	41.96	1.000	1.000	113.77	114	0.201	114
18	18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.16	1.000	26.584	26.54	1.026	1.025	91.859	91.9	0.0837	
19	19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.849	1.000	31.784	31.50	1.227	1.216	88.503	88.5	0.117	
20	20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.779	1.000	34.874	34.87	1.014	1.014	88.587	88.6	0.180	
21	21 13C-1,2,3,6,7,8-HxCDD	8.41e5	1.26	NO	1.02	1.000	34.987	34.97	1.017	1.017	88.739	88.7	0.138	
22	22 13C-1,2,3,7,8,9-HxCDD	7.39e5	1.24	NO	0.903	1.000	35.259	35.25	1.025	1.025	87.785	87.8	0.155	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.53e5	1.04	NO	0.689	1.000	38.787	38.79	1.128	1.128	86.116	86.1	0.160	
24	24 13C-OCDD	1.01e6	0.89	NO	0.652	1.000	41.813	41.76	1.216	1.214	166.64	83.3	0.212	
25	25 13C-2,3,7,8-TCDF	1.73e6	0.77	NO	1.06	1.000	25.623	25.65	0.989	0.990	90.815	90.8	0.116	
26	26 13C-1,2,3,7,8-PeCDF	1.35e6	1.61	NO	0.838	1.000	30.163	30.21	1.165	1.167	89.693	89.7	0.169	
27	27 13C-2,3,4,7,8-PeCDF	1.33e6	1.57	NO	0.817	1.000	31.119	31.19	1.202	1.204	90.666	90.7	0.174	
28	28 13C-1,2,3,4,7,8-HxCDF	8.51e5	0.51	NO	1.01	1.000	34.004	33.98	0.989	0.988	90.589	90.6	0.222	
29	29 13C-1,2,3,6,7,8-HxCDF	1.01e6	0.51	NO	1.17	1.000	34.127	34.11	0.992	0.992	92.509	92.5	0.191	
30	30 13C-2,3,4,6,7,8-HxCDF	8.50e5	0.51	NO	1.02	1.000	34.702	34.70	1.009	1.009	89.276	89.3	0.219	
31	31 13C-1,2,3,7,8,9-HxCDF	7.33e5	0.50	NO	0.860	1.000	35.603	35.61	1.035	1.036	91.476	91.5	0.260	

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-8.qld

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Printed: Friday, May 29, 2020 7:44:35 AM Pacific Daylight Time

Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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32	32 13C-1,2,3,4,6,7,8-HpCDF	6.33e5	0.43	NO	0.774	1.000	37.353	37.39	1.086	1.087	87.682	87.7	0.235	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.07e5	0.42	NO	0.521	1.000	39.386	39.33	1.145	1.144	83.716	83.7	0.350	
34	34 13C-OCDF	1.14e6	0.88	NO	0.746	1.000	41.985	41.95	1.221	1.220	163.83	81.9	0.148	
35	35 37Cl-2,3,7,8-TCDD	1.28e5			1.04	1.000	26.615	26.57	1.028	1.026	10.416	104	0.0149	
36	36 13C-1,2,3,4-TCDD	1.19e6	0.81	NO	1.00	1.000	26.000	25.90	1.000	1.000	100.00	100	0.0967	
37	37 13C-1,2,3,4-TCDF	1.80e6	0.79	NO	1.00	1.000	24.360	24.22	1.000	1.000	100.00	100	0.123	
38	38 13C-1,2,3,4,6,9-HxCDF	9.32e5	0.51	NO	1.00	1.000	34.420	34.39	1.000	1.000	100.00	100	0.223	



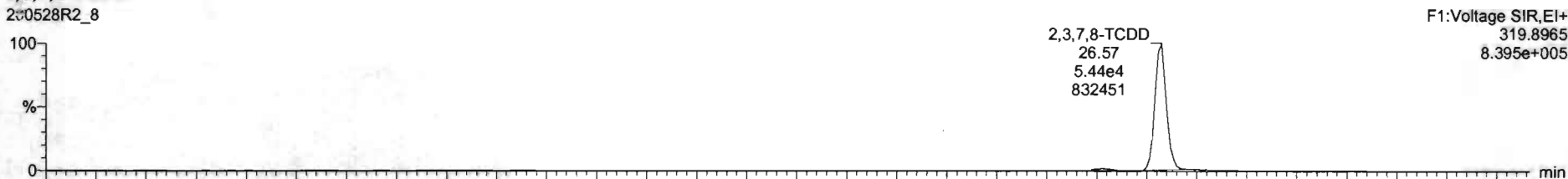
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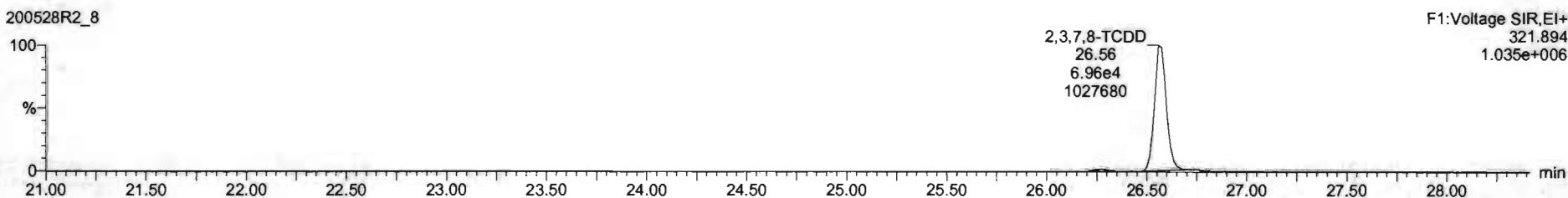
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Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

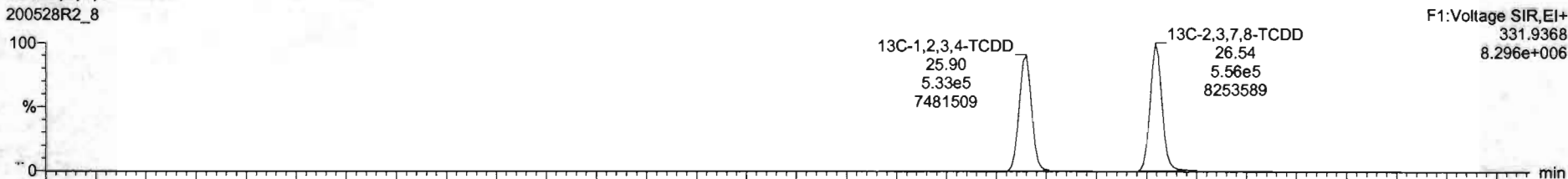
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200528R2\_8



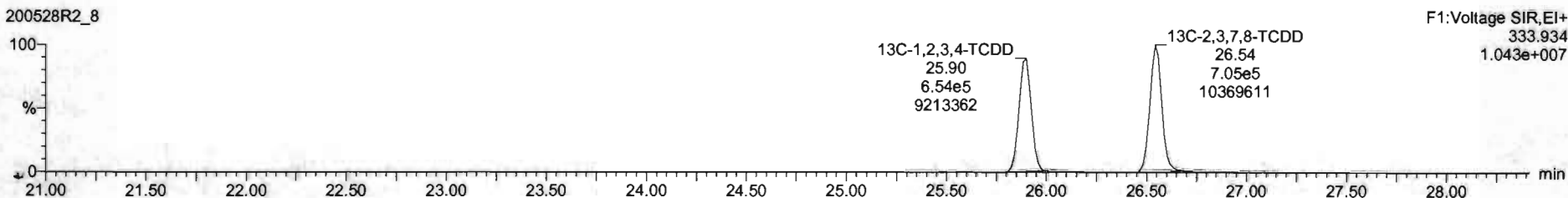
200528R2\_8



**13C-2,3,7,8-TCDD**  
200528R2\_8



200528R2\_8



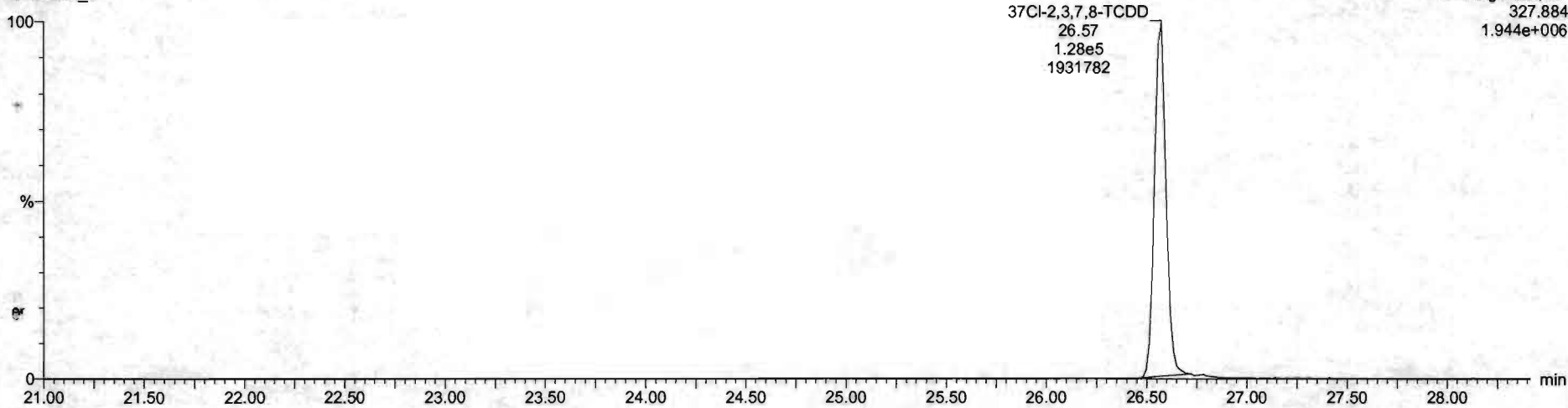
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Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

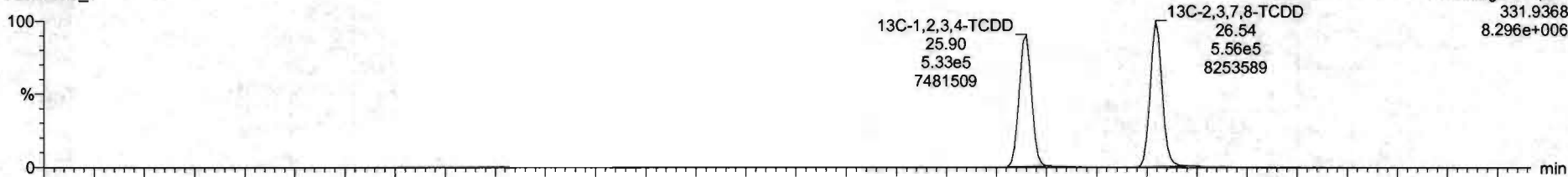
**37Cl-2,3,7,8-TCDD**

200528R2\_8

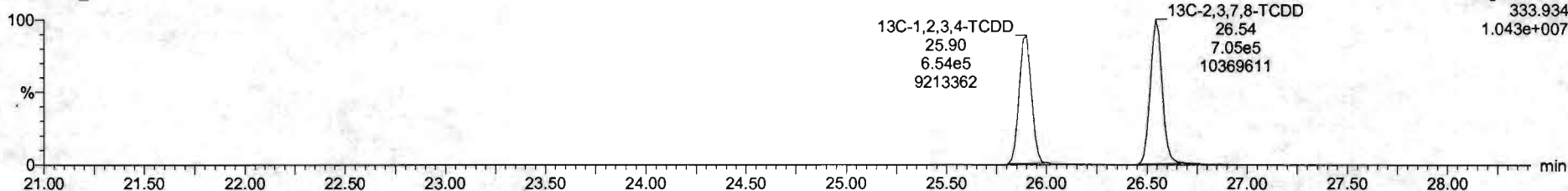


**13C-1,2,3,4-TCDD**

200528R2\_8



200528R2\_8





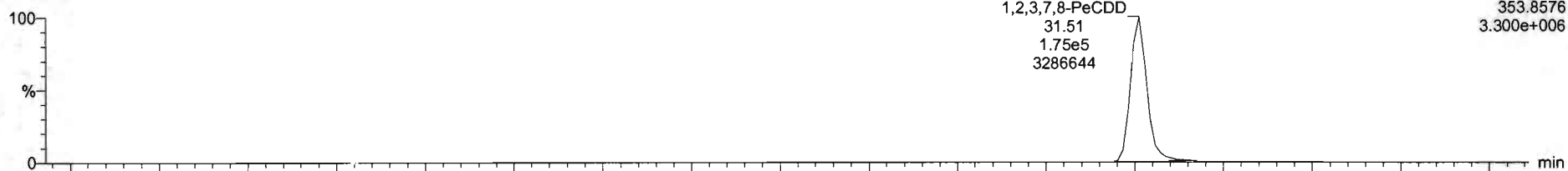
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Last Altered: Friday, May 29, 2020 7:38:11 AM Pacific Daylight Time  
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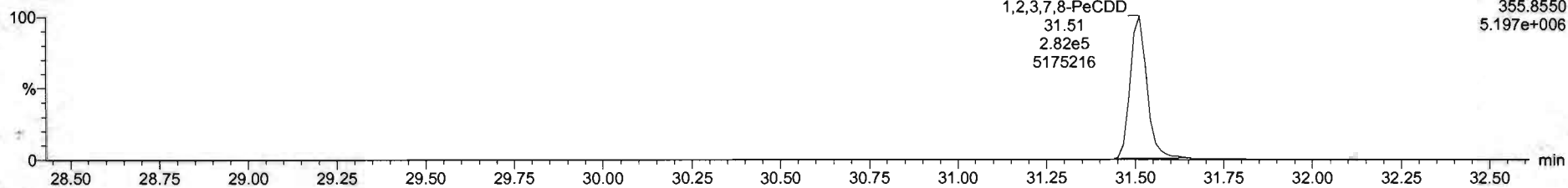
Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200528R2\_8

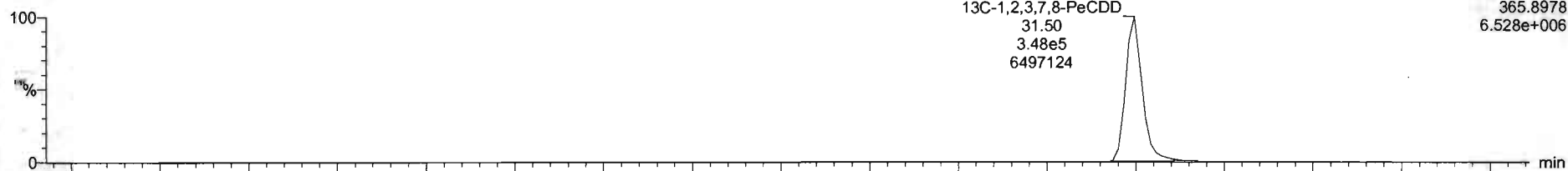


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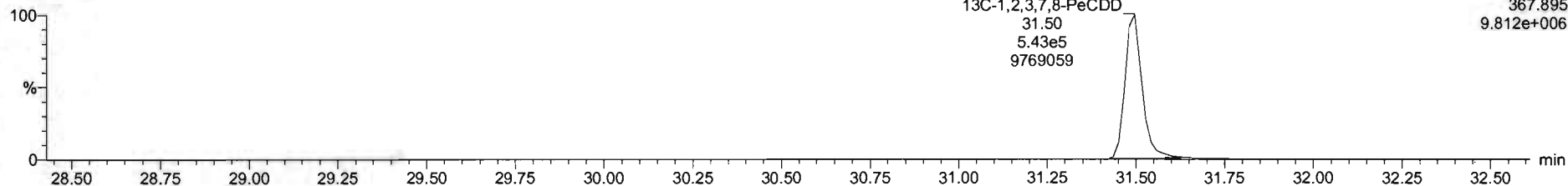


**13C-1,2,3,7,8-PeCDD**

200528R2\_8



200528R2\_8



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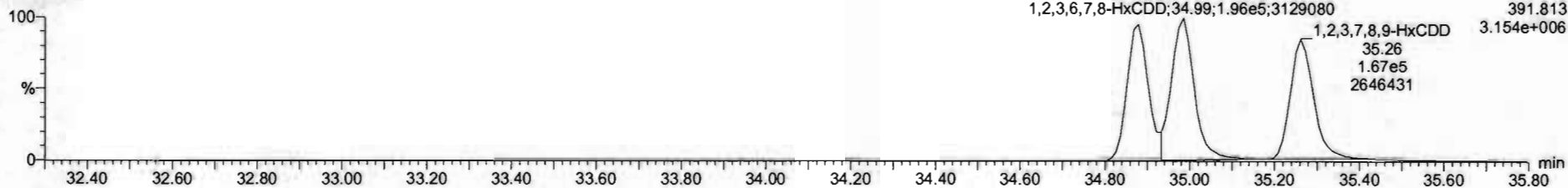
Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200528R2\_8

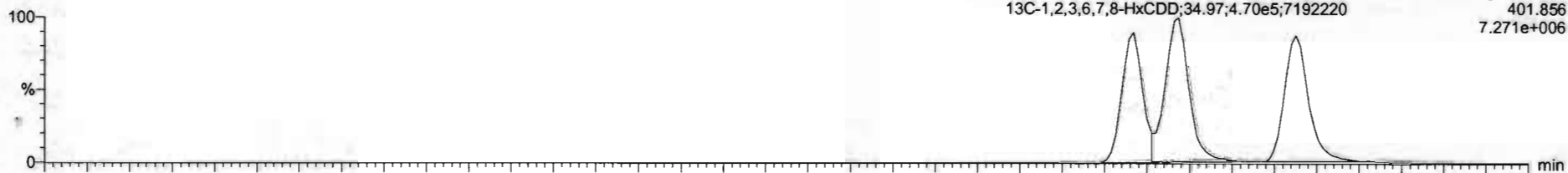


200528R2\_8

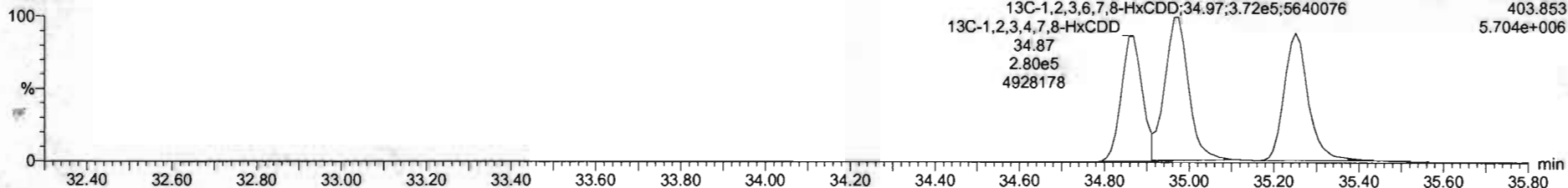


**13C-1,2,3,4,7,8-HxCDD**

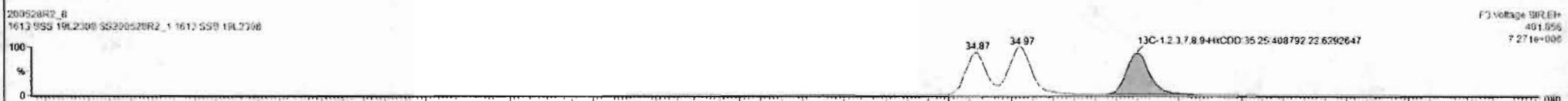
200528R2\_8



200528R2\_8



#	Name	Resp	RA	nby	RRF	wthvol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.24e5	0.76	NO	0.6883	1.000	26.57	1.001	11.1	111	0.0252	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	56.4	113	0.0622	56.4
3	1,2,3,4,7,8-HxCDD	2.86e5	1.22	NO	1.0334	1.000	34.86	1.000	56.0	116	0.101	56.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.72	NO	0.8923	1.000	34.99	1.000	58.0	116	0.105	58.0
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.6969	1.000	35.26	1.000	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.57e5	1.02	NO	0.8639	1.000	36.50	1.000	55.6	112	0.160	55.6
7	OCDD	5.24e5	0.85	NO	0.9136	1.000	41.78	1.001	113	113	0.171	113
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0333	11.4
9	1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	113	0.0942	55.7
10	2,3,4,7,8-PeCDF	7.62e5	1.54	NO	0.9348	1.000	21.21	1.000	62.1	124	0.0853	62.1
11	1,2,3,4,7,8-HxCDF	4.38e5	1.19	NO	0.8845	1.000	23.99	1.000	58.9	115	0.114	58.9
12	1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8892	1.000	34.12	1.000	59.1	116	0.108	59.1
13	2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.71	1.000	57.2	114	0.117	57.2
14	1,2,3,7,8,9-HxCDF	3.52e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15	1,2,3,4,5,7,8-HpCDF	3.16e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	115	0.186	58.9
16	1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.190	59.2
17	OCDF	5.22e5	0.97	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1583	1.000	26.54	1.025	91.9	91.9	0.0837	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	88.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7750	1.000	34.87	1.014	86.6	86.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.28	NO	1.0187	1.000	34.97	1.017	88.7	88.7	0.136	



Dataset: Untitled

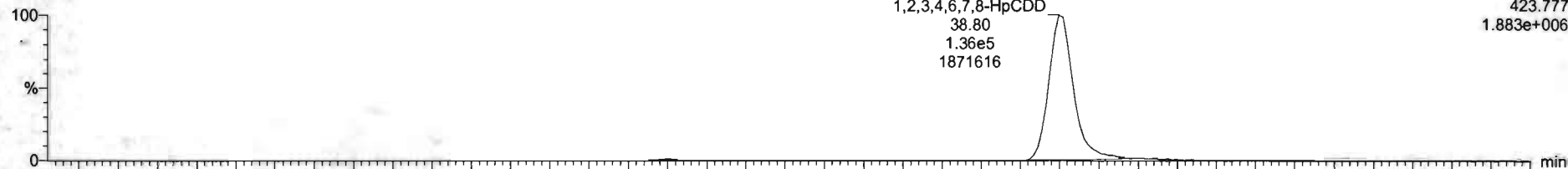
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Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

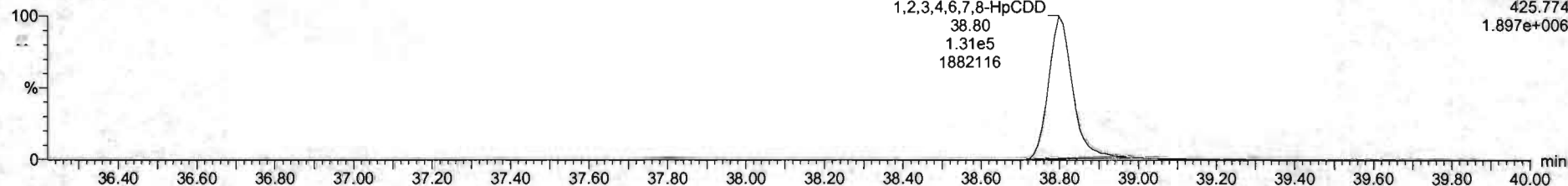
**1,2,3,4,6,7,8-HpCDD**

200528R2\_8



F4:Voltage SIR,EI+  
423.777  
1.883e+006

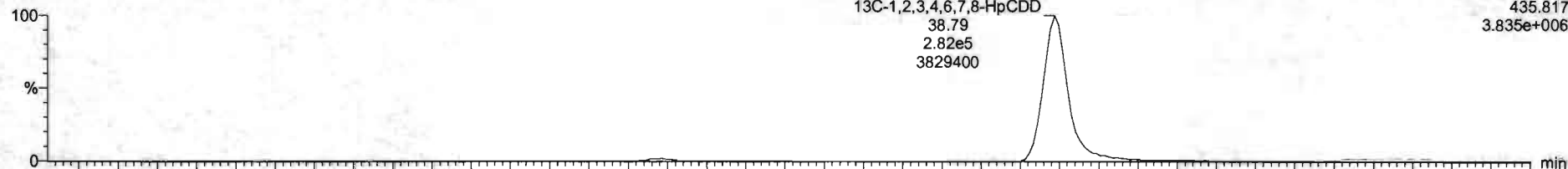
200528R2\_8



F4:Voltage SIR,EI+  
425.774  
1.897e+006

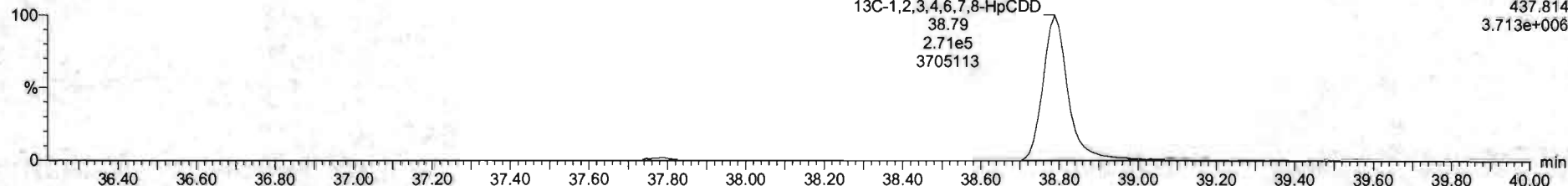
**13C-1,2,3,4,6,7,8-HpCDD**

200528R2\_8



F4:Voltage SIR,EI+  
435.817  
3.835e+006

200528R2\_8



F4:Voltage SIR,EI+  
437.814  
3.713e+006

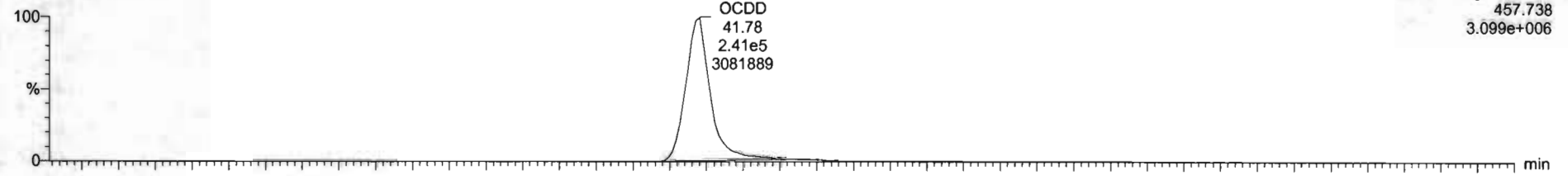
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Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

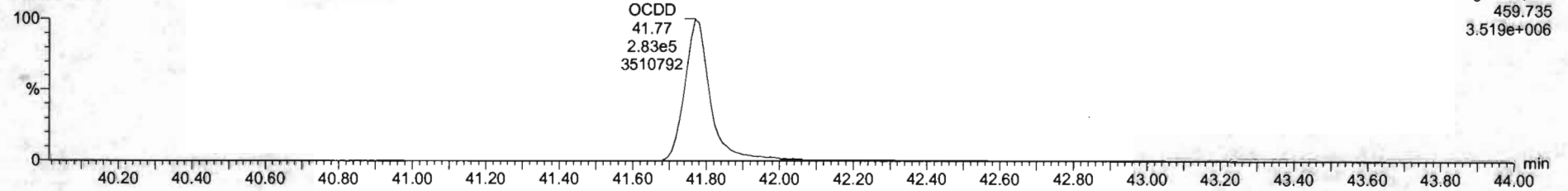
OCDD

200528R2\_8



F5: Voltage SIR, EI+  
457.738  
3.099e+006

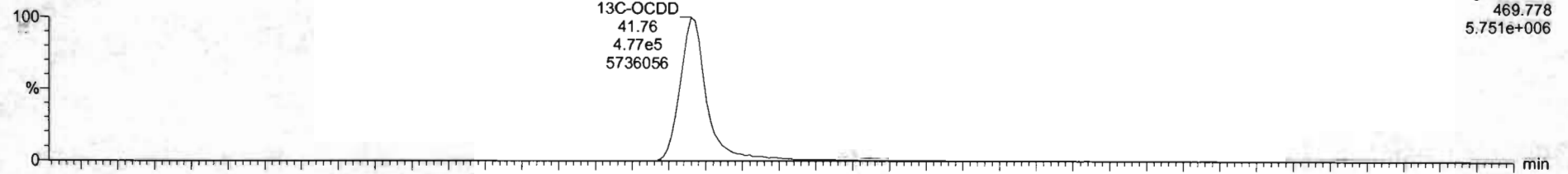
200528R2\_8



F5: Voltage SIR, EI+  
459.735  
3.519e+006

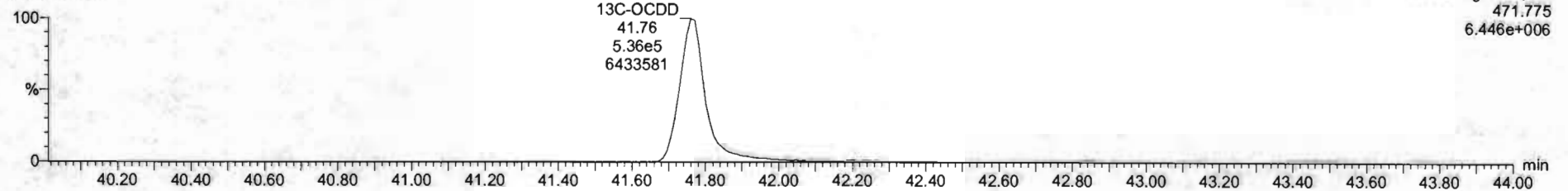
13C-OCDD

200528R2\_8



F5: Voltage SIR, EI+  
469.778  
5.751e+006

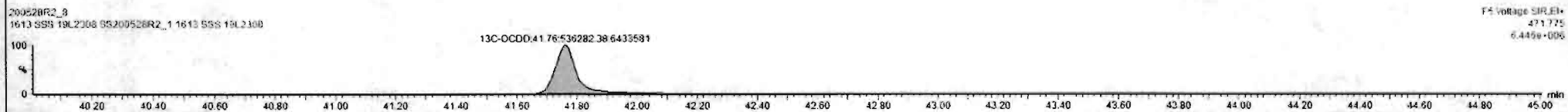
200528R2\_8



F5: Voltage SIR, EI+  
471.775  
6.446e+006



Name	Resp	RA	dy	RRF	wtVol	RT	RRT	Conc	%Rec	OL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.78	NO	0.8863	1.000	26.57	1.001	11.1	111	0.0252	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	58.4	113	0.0622	56.1
3 1,2,3,4,7,8-HxCDD	2.86e5	1.22	NO	1.0334	1.000	34.88	1.000	56.0	116	0.101	58.0
4 1,2,3,6,7,8-HxCDD	4.38e5	1.22	NO	0.8923	1.000	34.99	1.000	58.0	116	0.105	56.6
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8265	1.000	35.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.8639	1.000	36.60	1.000	55.6	112	0.168	55.6
7 OCDD	5.15e5	0.88	NO	0.9138	1.000	41.78	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.46e5	0.75	NO	0.7510	1.000	25.88	1.001	11.4	114	0.0333	11.4
9 1,2,3,7,8-PeCDF	6.77e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0642	55.7
10 2,3,4,7,8-PeCDF	7.62e5	1.54	NO	0.9348	1.000	31.21	1.000	62.1	124	0.0853	62.1
11 1,2,3,4,7,8-HxCDF	4.38e5	1.19	NO	0.8545	1.000	33.99	1.000	58.9	115	0.114	58.9
12 1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8852	1.000	34.12	1.000	59.1	115	0.100	59.1
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.21	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,6,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	119	0.193	59.2
17 OCDF	5.22e5	0.87	NO	0.8065	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0627	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8490	1.000	31.50	1.216	86.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	88.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.136	



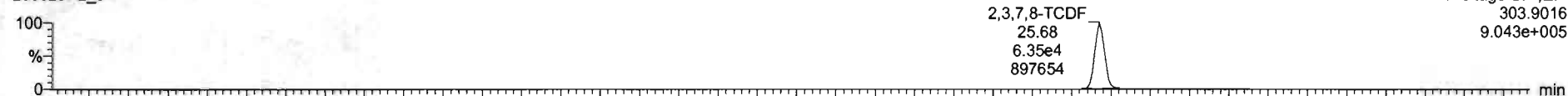
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Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

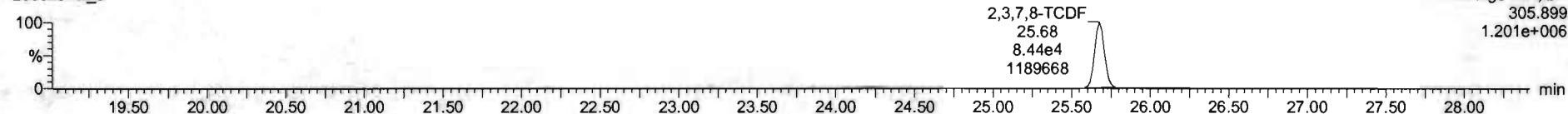
Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200528R2\_8

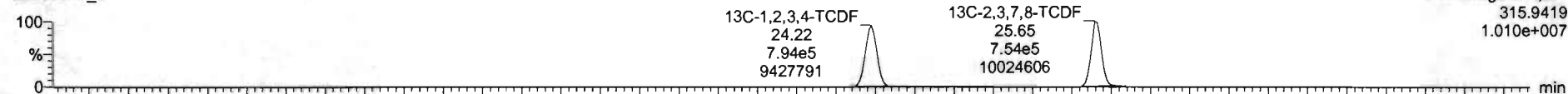


200528R2\_8

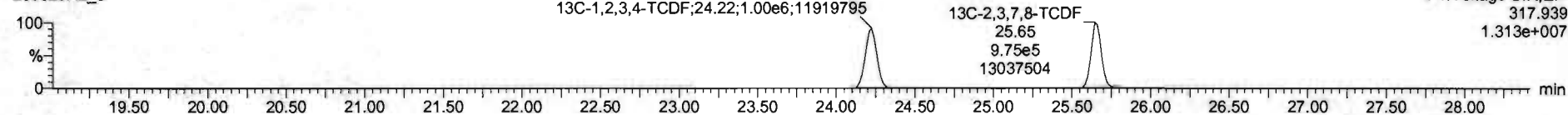


**13C-2,3,7,8-TCDF**

200528R2\_8

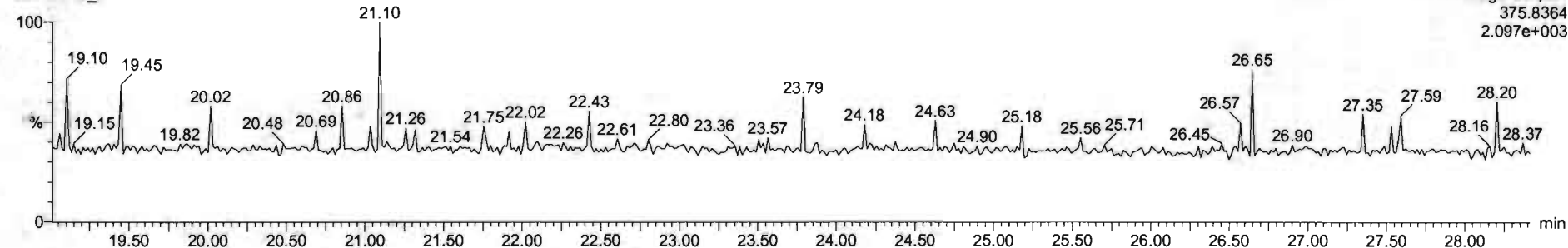


200528R2\_8



**DPE1**

200528R2\_8



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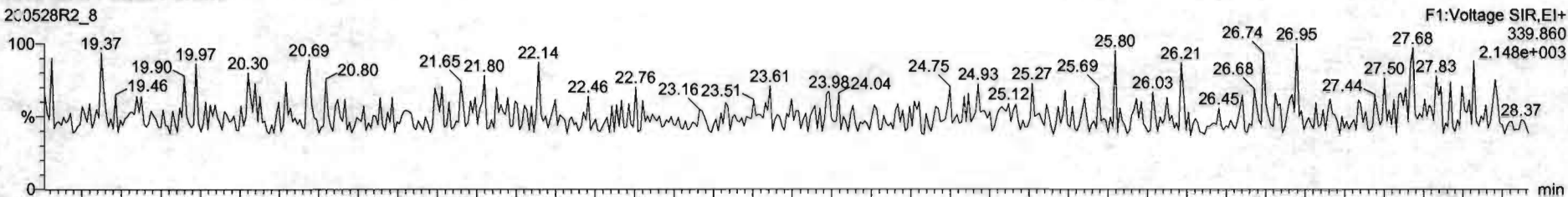
Last Altered: Friday, May 29, 2020 7:38:11 AM Pacific Daylight Time

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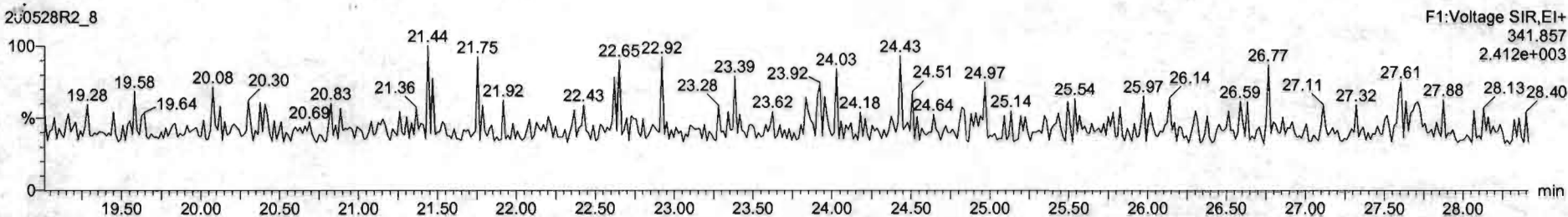
Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1st Func. Penta-Furans

200528R2\_8

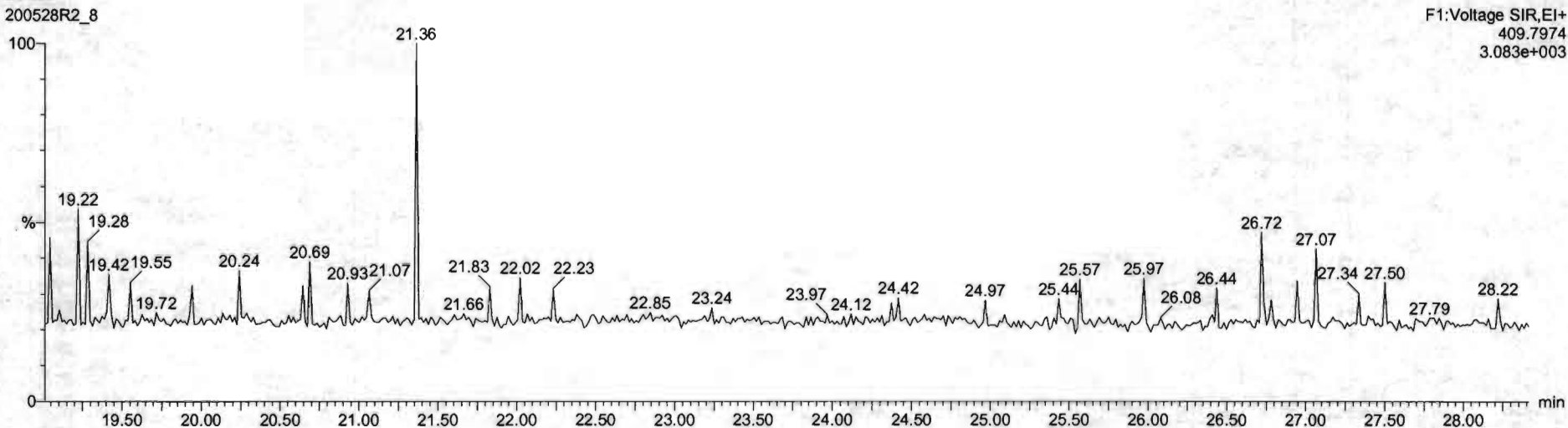


200528R2\_8



DPE6

200528R2\_8



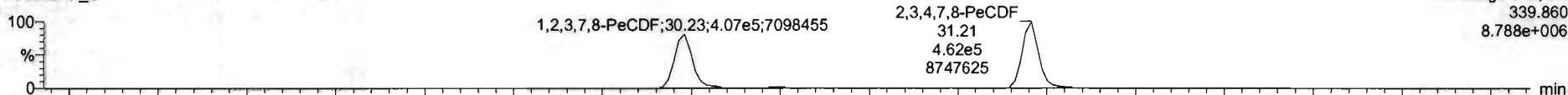
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Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

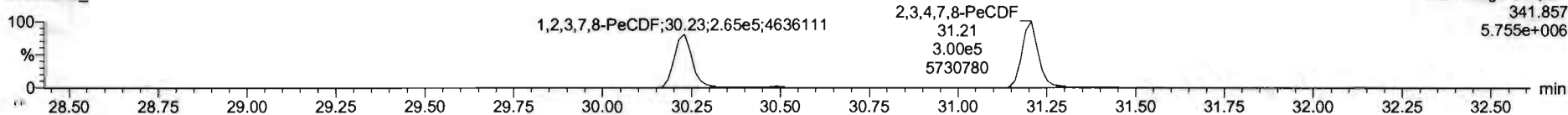
**1,2,3,7,8-PeCDF**

200528R2\_8



F2:Voltage SIR,EI+  
339.860  
8.788e+006

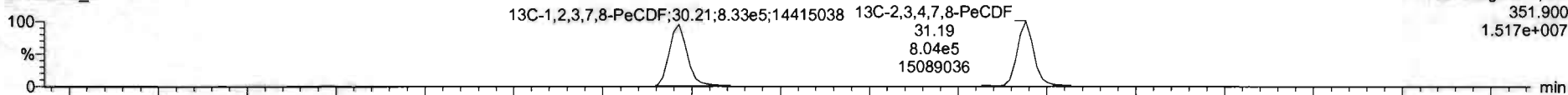
200528R2\_8



F2:Voltage SIR,EI+  
341.857  
5.755e+006

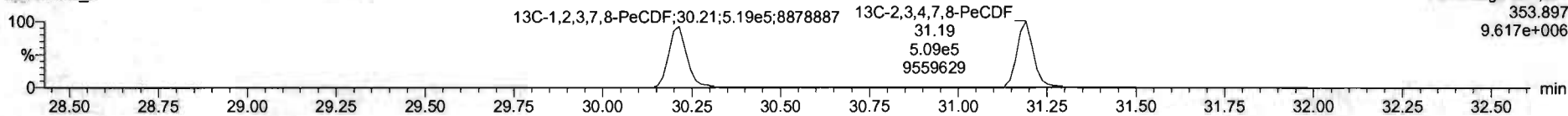
**13C-1,2,3,7,8-PeCDF**

200528R2\_8



F2:Voltage SIR,EI+  
351.900  
1.517e+007

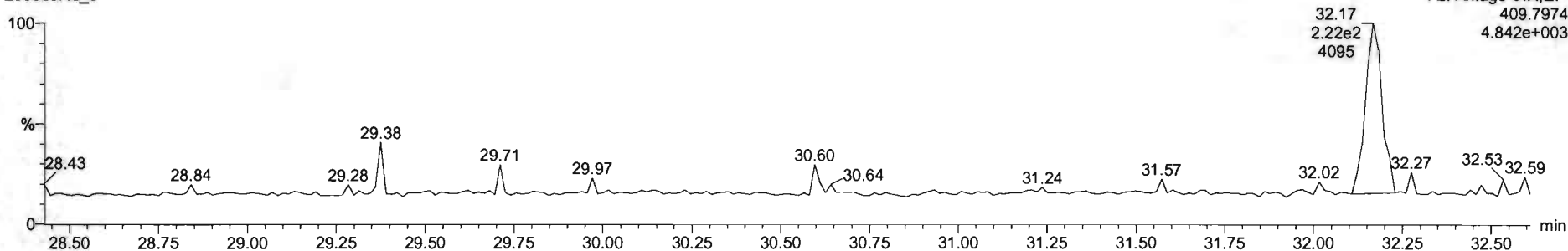
200528R2\_8



F2:Voltage SIR,EI+  
353.897  
9.617e+006

**DPE2**

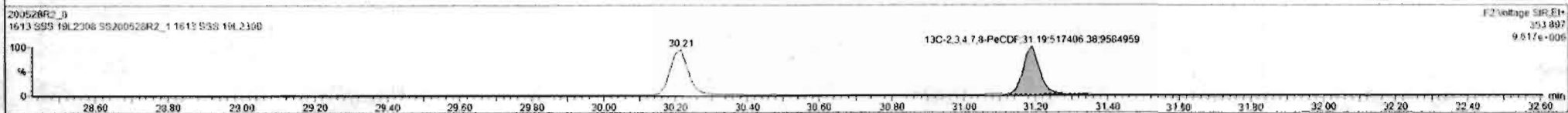
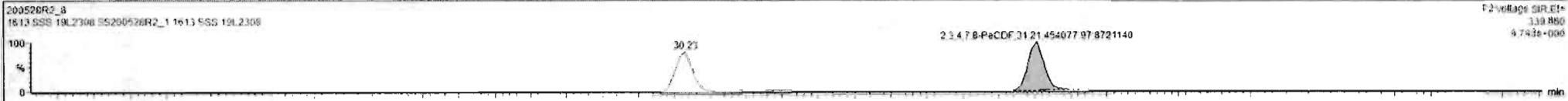
200528R2\_8



F2:Voltage SIR,EI+  
409.7974  
4.842e+003



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.76	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	56.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	2.86e5	1.22	NO	1.0334	1.000	34.85	1.000	56.0	116	0.101	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8923	1.000	34.99	1.000	58.0	116	0.105	56.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8264	1.000	35.05	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.87e5	1.03	NO	0.8639	1.000	36.80	1.000	55.8	112	0.168	55.8
7 OCDD	5.15e5	0.38	NO	0.9136	1.000	41.75	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0323	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	20.23	1.001	55.7	111	0.0947	55.7
10 2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.9348	1.000	31.21	1.000	60.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.36e5	1.19	NO	0.8845	1.000	23.99	1.000	58.9	118	0.114	56.9
12 1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8252	1.000	34.12	1.000	59.1	118	0.108	59.1
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.71	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,6,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17 OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0837	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	88.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	24.87	1.014	86.6	86.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.128	





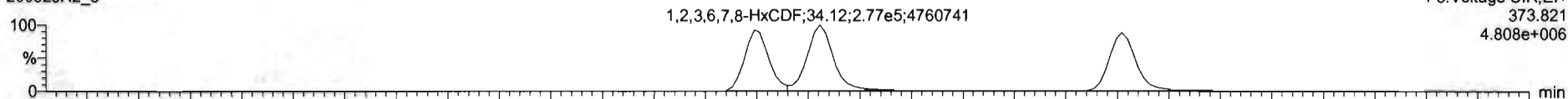
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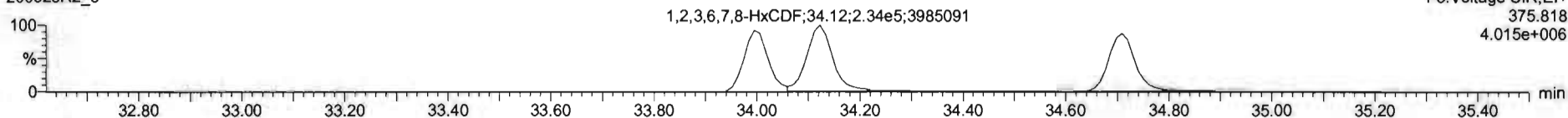
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**1,2,3,4,7,8-HxCDF**

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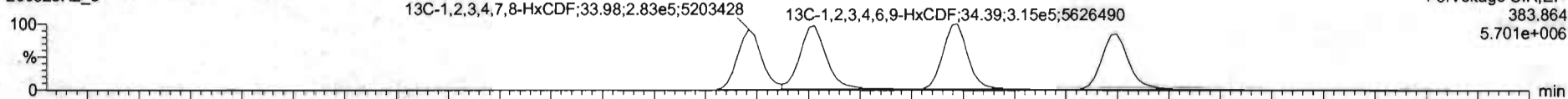


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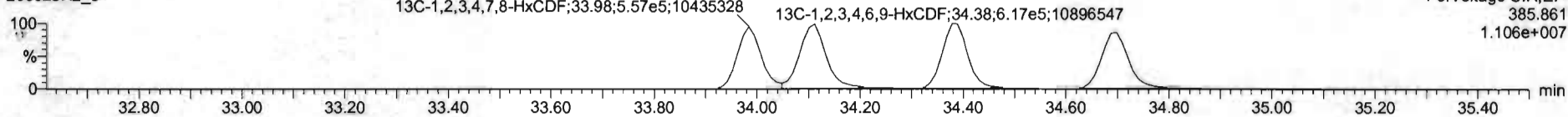


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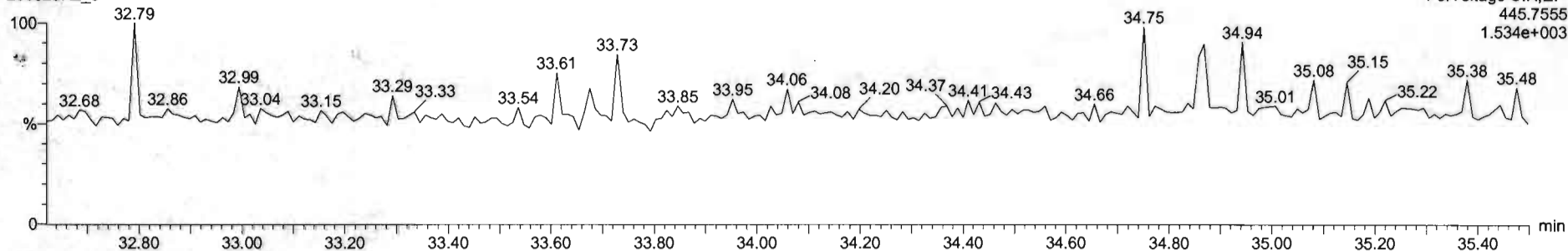


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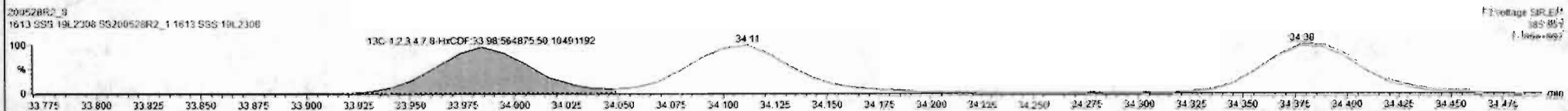
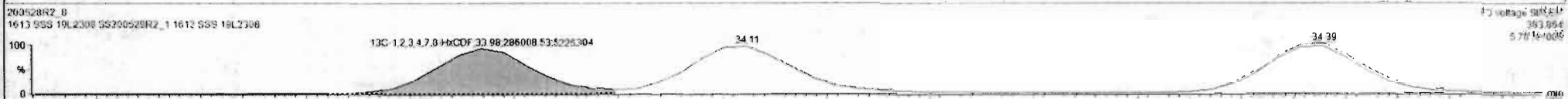
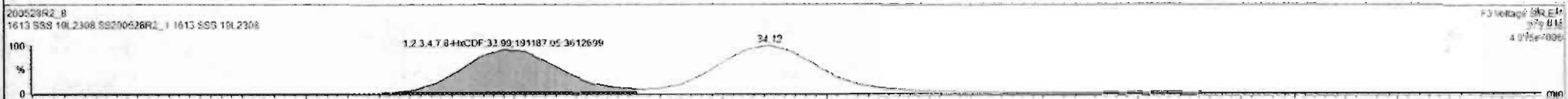
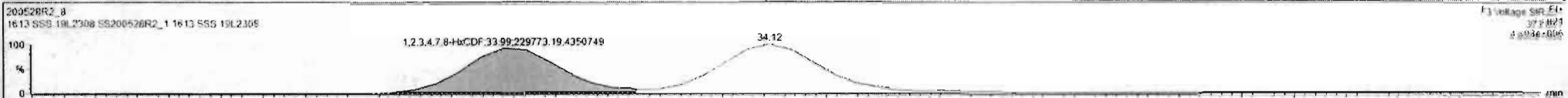


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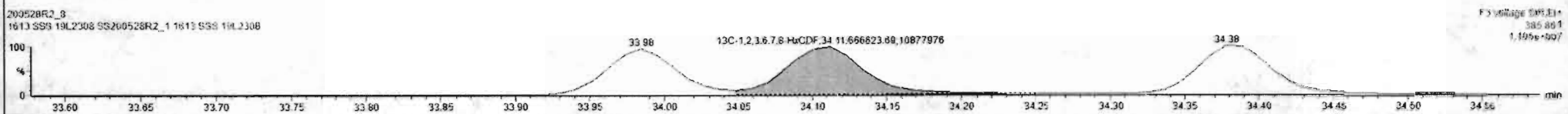
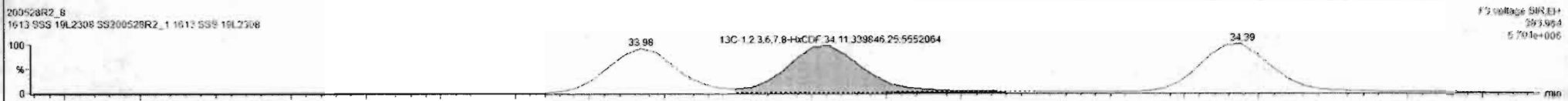
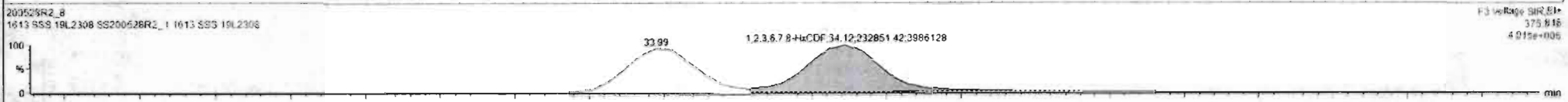
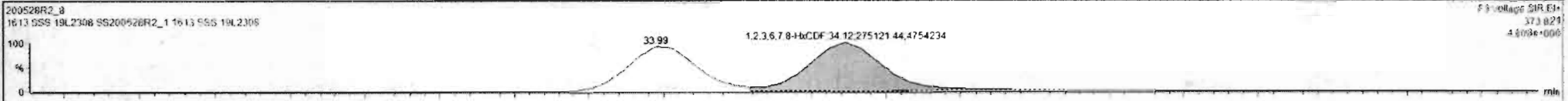
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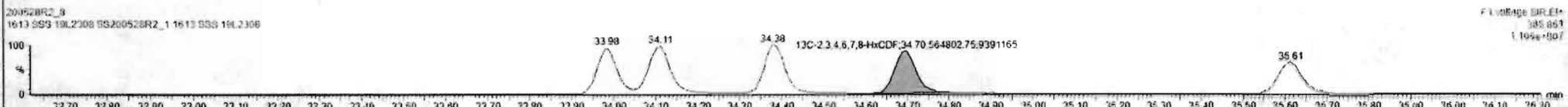
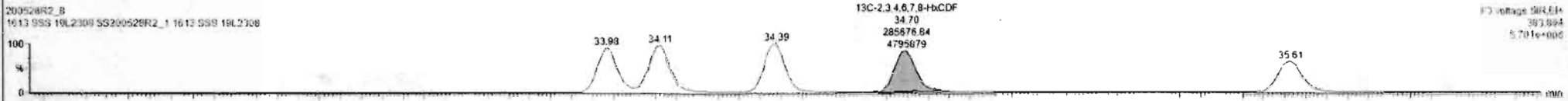
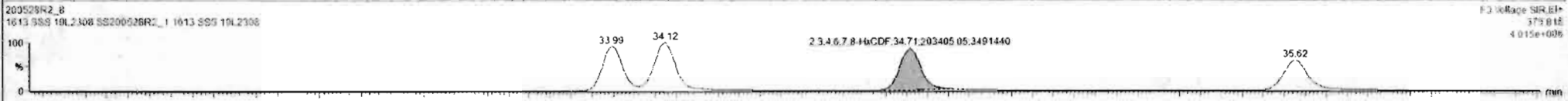
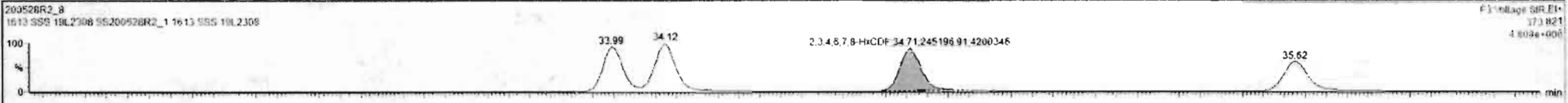
Name	Resp	RA	nly	RRF	wVal	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.76	NO	0.8863	1.000	26.57	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.8981	1.000	31.51	1.000	56.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	3.26e5	1.22	NO	1.0334	1.000	24.86	1.000	56.0	116	0.1011	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8929	1.000	24.99	1.000	58.0	116	0.105	56.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8869	1.000	25.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.8639	1.000	26.50	1.000	55.6	112	0.168	55.6
7 OCDD	5.15e5	0.68	NO	0.9136	1.000	41.75	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7519	1.000	25.65	1.001	11.4	114	0.0333	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0942	55.7
10 1,2,3,4,7,8-HxCDF	7.50e5	1.54	NO	0.9346	1.000	21.21	1.000	60.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.8845	1.000	23.99	1.000	55.9	112	0.113	55.9
12 1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8862	1.000	24.12	1.000	59.1	118	0.100	59.1
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	24.71	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	25.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,5,7,8-HpCDF	3.16e5	1.01	NO	0.8734	1.000	27.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.199	59.2
17 OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0837	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	86.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	24.87	1.014	85.6	88.6	0.160	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.36	NO	1.0187	1.000	24.97	1.017	88.7	88.7	0.138	



Name	Reap	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.76	NO	0.8863	1.000	26.67	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.53	1.000	56.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	3.86e5	1.22	NO	1.0334	1.000	34.86	1.000	56.0	116	0.101	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8973	1.000	34.99	1.000	58.0	116	0.105	58.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8969	1.000	35.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,5,7,8-HpCDD	2.67e5	1.02	NO	0.8639	1.000	36.60	1.000	55.6	112	0.168	55.6
7 OCDD	5.15e5	0.88	NO	0.9136	1.000	41.78	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0333	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0542	55.7
10 1,2,3,7,8,9-HxCDF	7.50e5	1.54	NO	0.9348	1.000	21.21	1.000	60.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.6845	1.000	23.99	1.000	55.9	112	0.113	55.9
12 1,2,3,6,7,8-HxCDF	5.06e5	1.18	NO	0.6892	1.000	34.12	1.000	56.3	114	0.127	56.3
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.71	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,5,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17 OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.76e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.5	0.0837	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	88.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	86.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.176	



SI	Name	Resp	RA	Adj	RFI	WVol	RT	RRT	Conc	%Rec	DL	EMFC
1	2,3,7,8-TCDD	1.24e5	0.78	NO	0.8883	1.000	28.57	1.001	11.1	111	0.0262	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	58.4	113	0.0622	56.4
3	1,2,3,4,7,8-HxCDD	3.66e5	1.22	NO	1.0314	1.000	34.88	1.000	56.0	116	0.101	58.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8923	1.000	34.99	1.000	58.0	116	0.100	58.0
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8869	1.000	35.26	1.000	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.67e5	1.93	NO	0.8039	1.000	38.80	1.000	55.8	112	0.160	55.8
7	OCDD	5.15e5	0.88	NO	0.9136	1.000	41.78	1.001	111	111	0.171	111
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.66	1.001	11.4	114	0.0333	11.4
9	1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0942	55.7
10	1,2,3,4,7,8-HxCDF	7.50e5	1.54	NO	0.9148	1.000	31.21	1.000	60.2	120	0.0851	60.2
11	1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.8545	1.000	33.99	1.000	55.9	112	0.113	55.9
12	1,2,3,6,7,8-HxCDF	5.06e5	1.16	NO	0.8262	1.000	34.12	1.000	56.8	114	0.107	56.8
13	2,3,4,6,7,8-HxCDF	4.49e5	1.21	NO	0.8341	1.000	34.71	1.000	56.5	113	0.117	56.5
14	1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15	1,2,3,4,6,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.196	58.9
16	1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17	OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.75	NO	1.1563	1.000	28.54	1.025	91.9	91.9	0.0637	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.84	NO	0.8490	1.000	31.50	1.216	88.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	86.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.136	





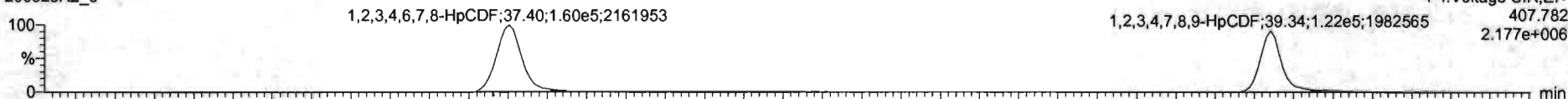
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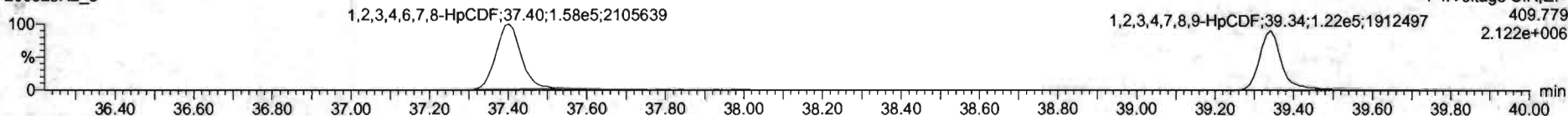
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**1,2,3,4,6,7,8-HpCDF**

200528R2\_8



200528R2\_8

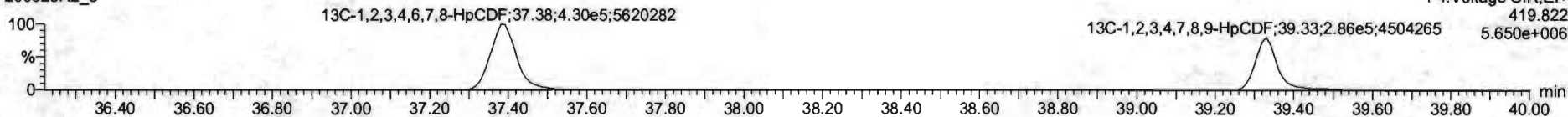


**13C-1,2,3,4,6,7,8-HpCDF**

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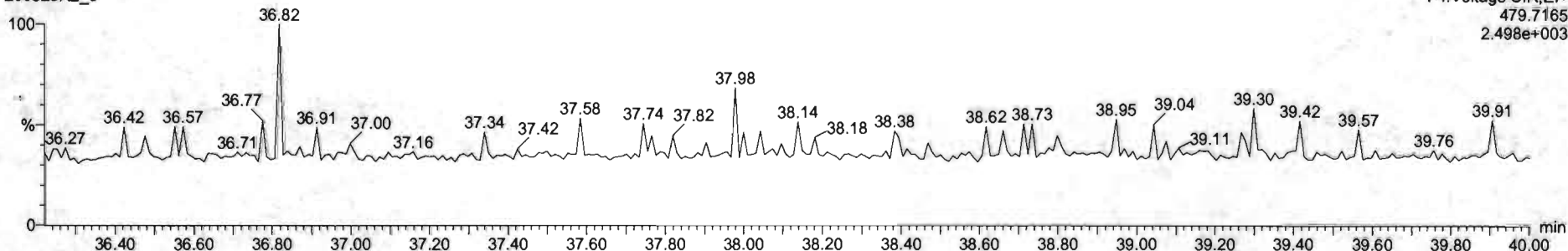


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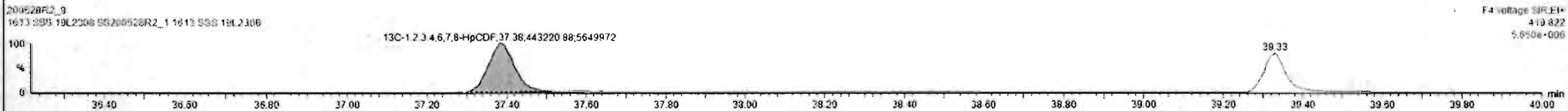
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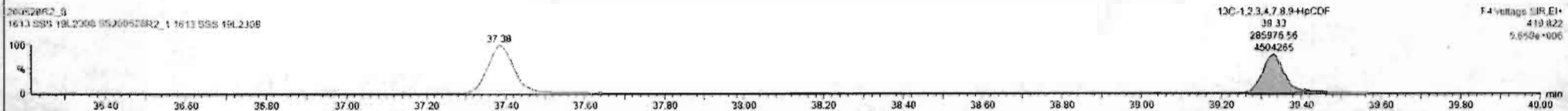




Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.78	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0252	11.1
2 1,2,3,7,8-PeCDD	5.57e5	0.62	NO	0.9081	1.000	31.51	1.000	58.4	113	0.0622	58.4
3 1,2,3,4,7,8-HxCDD	3.56e5	1.22	NO	1.0334	1.000	34.88	1.000	56.0	116	0.101	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8523	1.000	34.99	1.000	58.0	118	0.105	58.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8265	1.000	35.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.8639	1.000	36.80	1.000	55.8	112	0.168	55.8
7 OCDD	5.15e5	0.88	NO	0.9136	1.000	41.75	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0533	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8025	1.000	30.23	1.001	25.7	111	0.0542	55.7
10 2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.9348	1.000	31.21	1.000	50.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.8845	1.000	33.95	1.000	55.9	112	0.113	55.9
12 1,2,3,6,7,8-HxCDF	5.08e5	1.18	NO	0.8862	1.000	34.12	1.000	56.8	114	0.107	56.8
13 2,3,4,6,7,8-HxCDF	4.45e5	1.21	NO	0.9341	1.000	34.71	1.000	56.5	113	0.117	56.5
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,6,7,8-HpCDF	3.01e5	1.01	NO	0.8734	1.000	37.48	1.000	54.5	108	0.152	54.5
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.09	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17 OCDF	5.27e5	0.87	NO	0.8055	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e8	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0637	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8490	1.000	31.50	1.216	66.5	68.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	88.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	8.41e5	1.26	NO	1.0167	1.000	34.97	1.017	86.7	86.7	0.138	



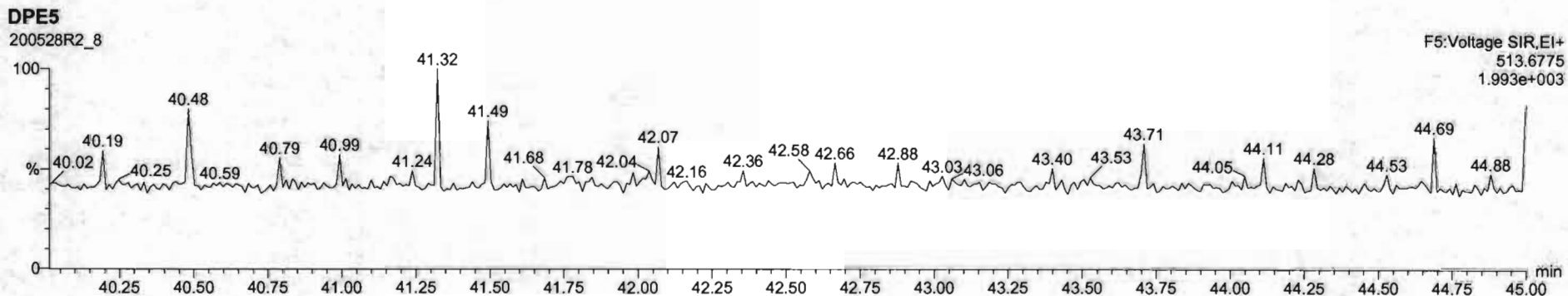
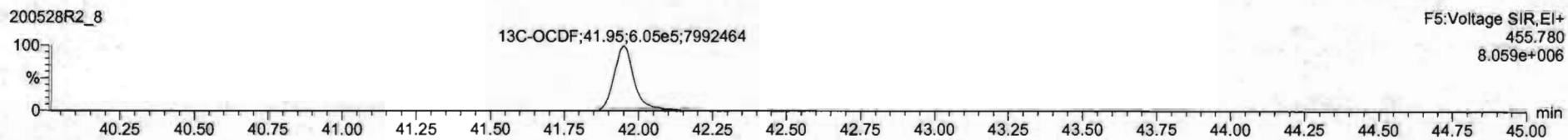
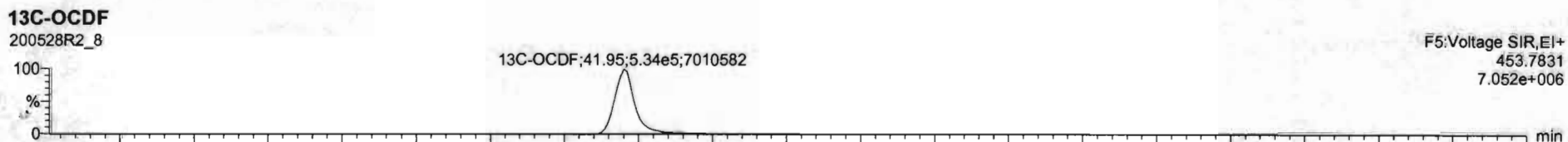
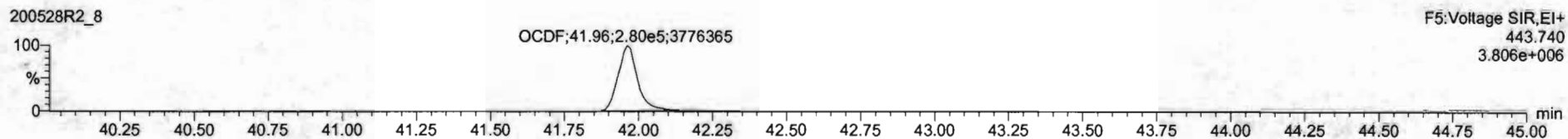
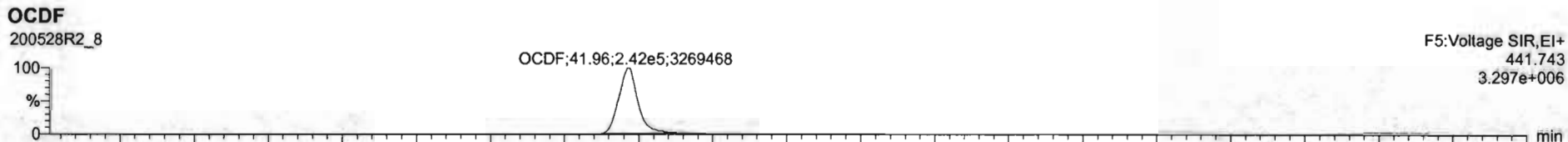
SL	Name	Resp	RA	nfy	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.24e5	0.76	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0262	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.82	NO	0.9081	1.000	31.01	1.000	58.4	113	0.0622	56.1
3	1,2,3,4,7,8-HxCDD	2.56e5	1.22	NO	1.0334	1.000	24.86	1.000	58.0	116	0.101	56.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8923	1.000	24.99	1.000	58.0	116	0.105	56.0
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8265	1.000	26.26	1.000	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.61e5	1.03	NO	0.8639	1.000	26.60	1.000	56.6	112	0.168	56.6
7	OCDD	5.15e5	0.88	NO	0.9136	1.000	41.78	1.001	111	111	0.171	111
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0303	11.4
9	1,2,3,7,8-PeCDF	4.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0642	55.7
10	2,3,4,7,8-PeCDF	7.58e5	1.54	NO	0.9346	1.000	31.21	1.000	50.2	126	0.0851	60.2
11	1,2,2',4',7,8-HxCDF	4.21e5	1.20	NO	0.8545	1.000	33.99	1.000	55.9	112	0.113	55.9
12	1,2,3,6,7,8-HxCDF	2.08e5	1.18	NO	0.8892	1.000	34.12	1.000	58.8	114	0.107	56.8
13	2,3,4,6,7,8-HxCDF	4.48e5	1.21	NO	0.9341	1.000	24.71	1.000	58.5	113	0.117	56.5
14	1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	25.82	1.000	55.3	111	0.174	55.3
15	1,2,3,4,6,7,8-HpCDF	3.01e5	1.01	NO	0.8734	1.000	37.40	1.000	54.5	109	0.182	54.5
16	1,2,3,4,7,8,9-HpCDF	2.35e5	1.00	NO	1.0128	1.000	39.24	1.000	57.3	115	0.198	57.3
17	OCDF	5.27e5	0.67	NO	0.8065	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0837	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8490	1.000	31.50	1.216	86.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	24.87	1.014	88.6	88.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	24.97	1.017	88.7	88.7	0.138	



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Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

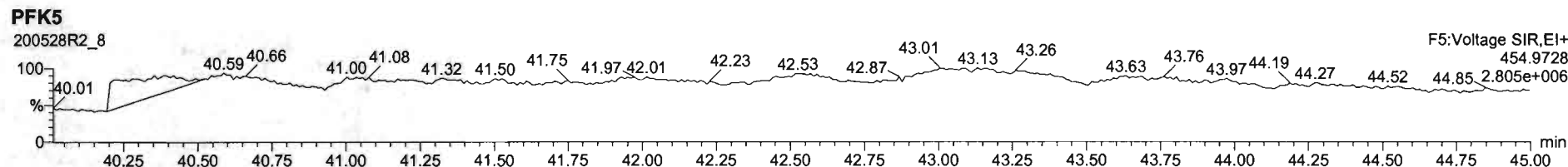
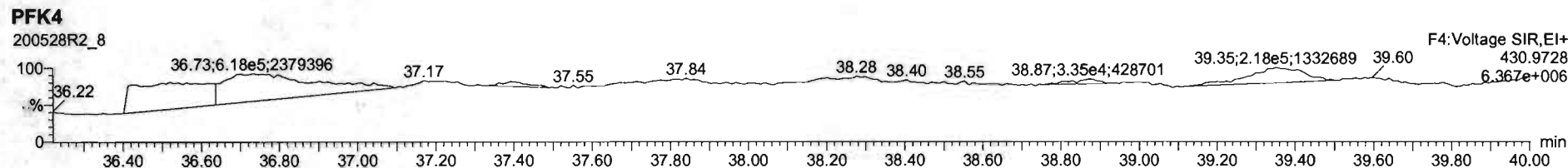
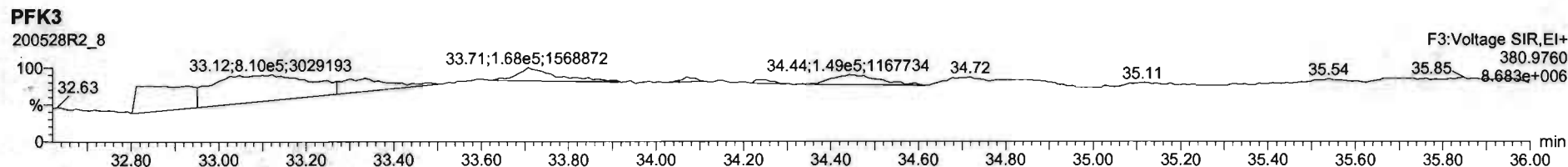
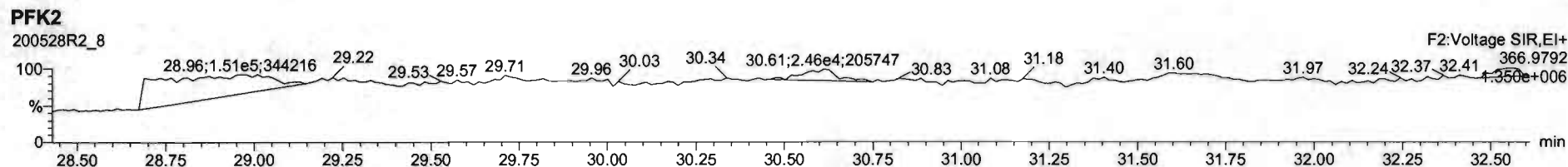
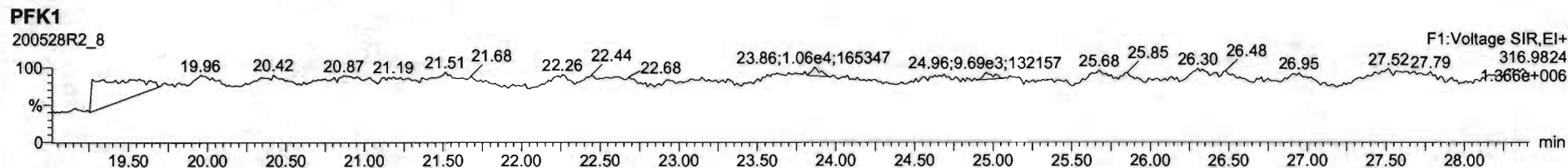
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Dataset: Untitled

Last Altered: Friday, May 29, 2020 7:38:11 AM Pacific Daylight Time  
Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

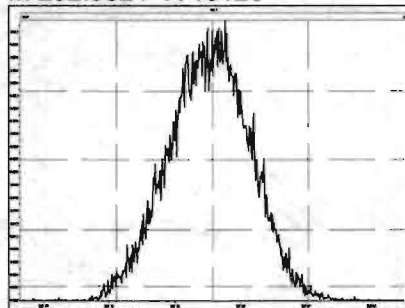




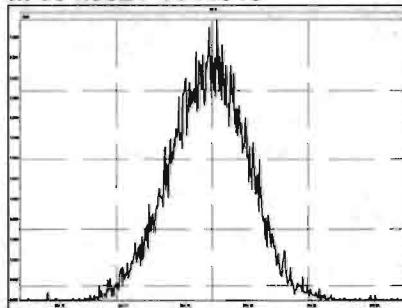
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Printed: Friday, May 29, 2020 07:19:01 Pacific Daylight Time

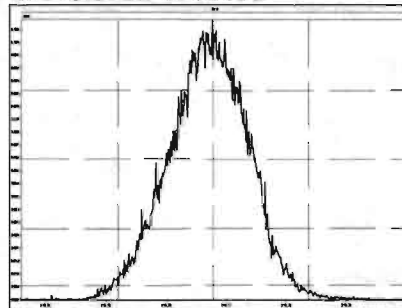
M 292.9824 R 10120



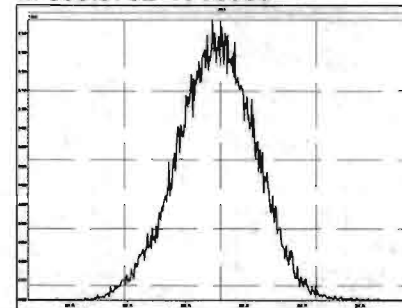
M 304.9824 R 11015



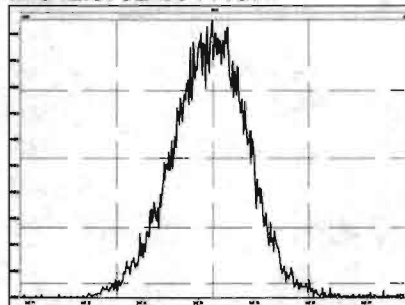
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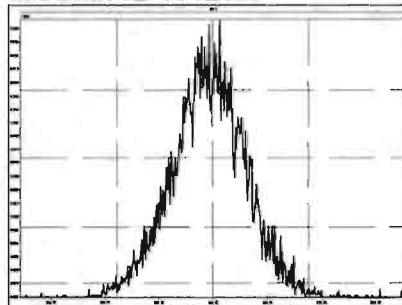
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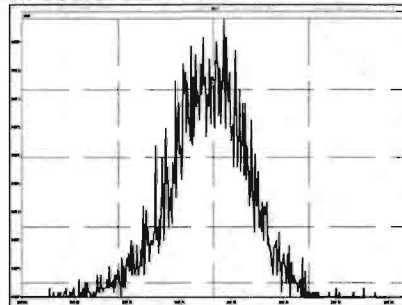
M 342.9792 R 11107



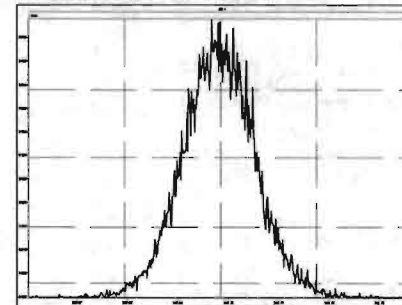
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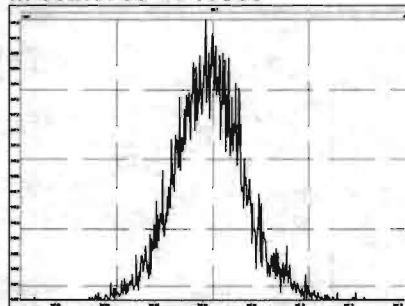
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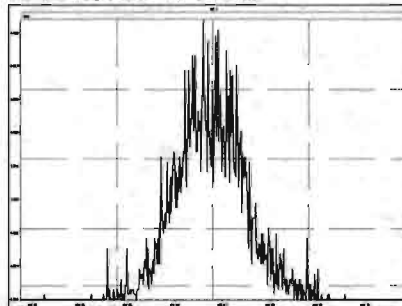
M 380.9760 R 11904



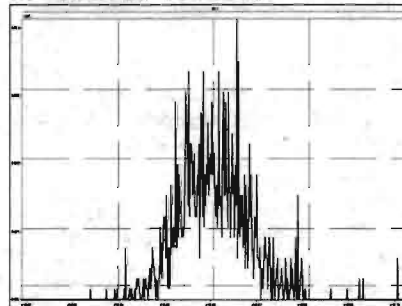
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M 404.9760 R 14045



M 416.9760 R 18245





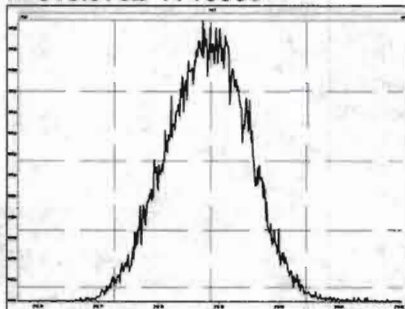
Experiment Calibration Report

MassLynx 4.1 SCN815

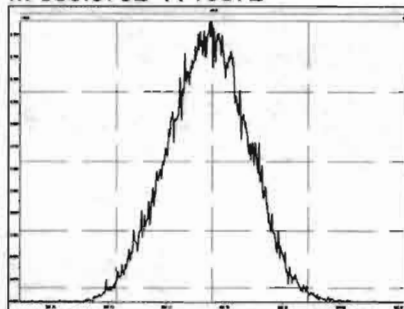
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Printed: Friday, May 29, 2020 07:19:21 Pacific Daylight Time

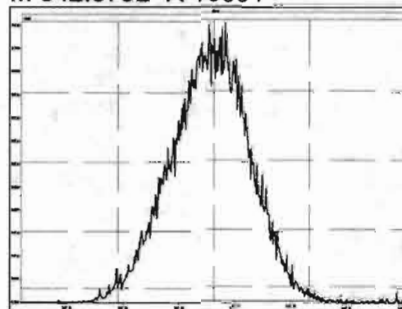
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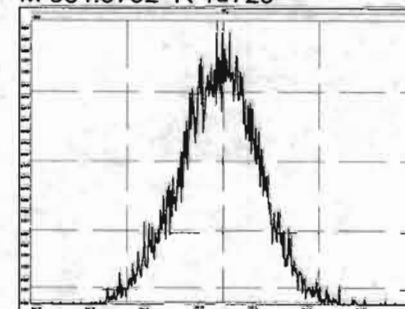
M 330.9792 R 10372



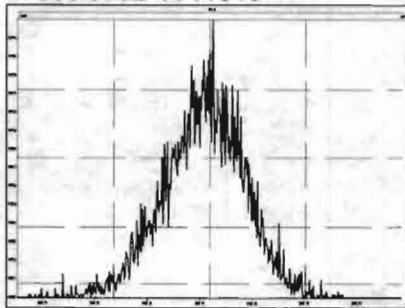
M 342.9792 R 10001



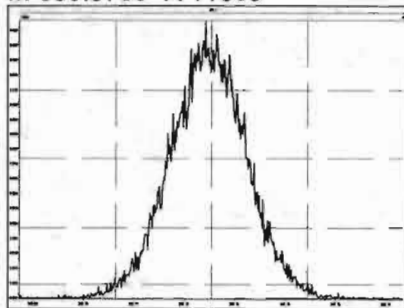
M 354.9792 R 10729



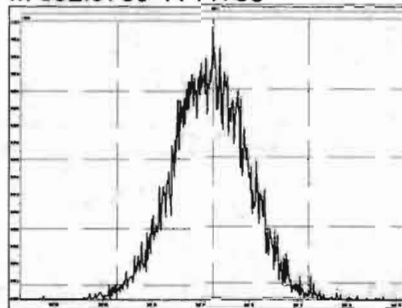
M 366.9792 R 11015



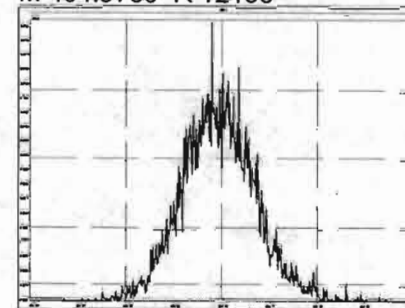
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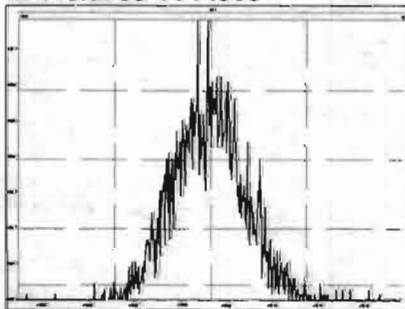
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M 404.9760 R 12196



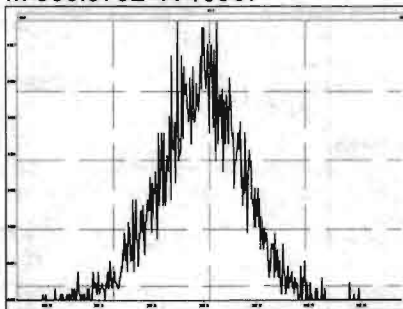
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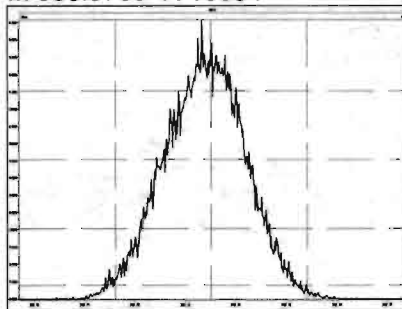
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Printed: Friday, May 29, 2020 07:19:38 Pacific Daylight Time

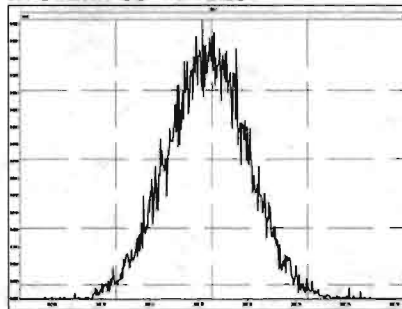
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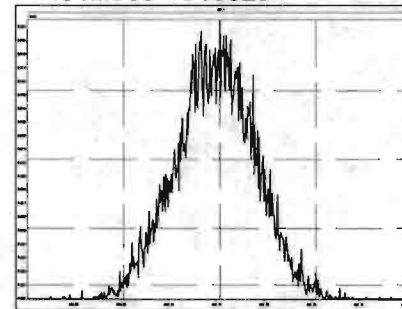
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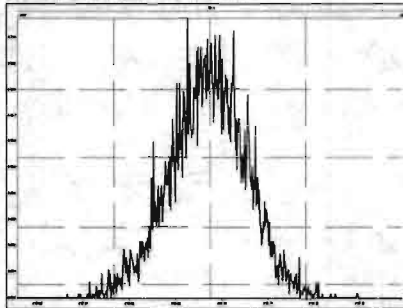
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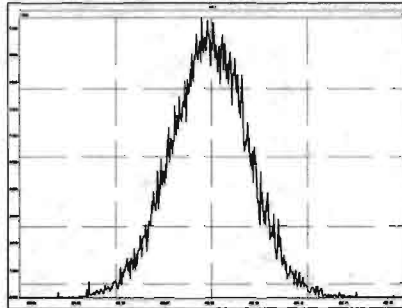
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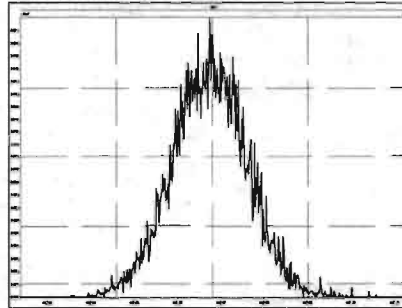
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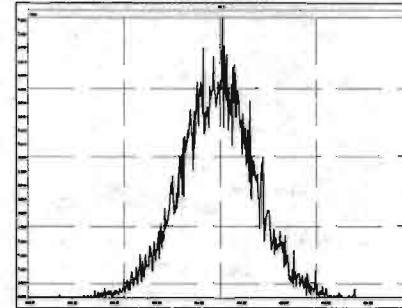
M 430.9728 R 11208



M 442.9728 R 12195



M 454.9728 R 10963



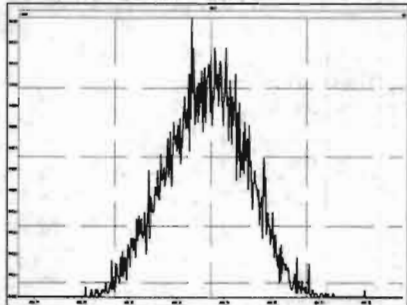
Experiment Calibration Report

MassLynx 4.1 SCN815

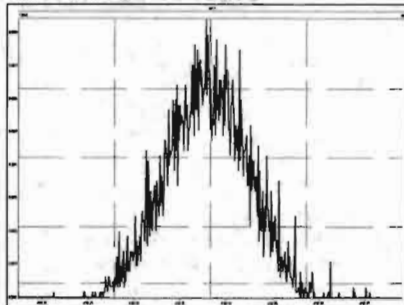
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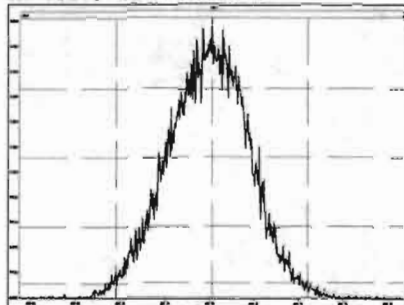
M 404.9760 R 10963



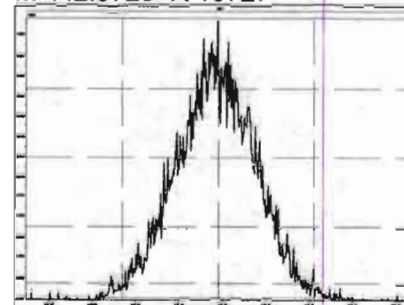
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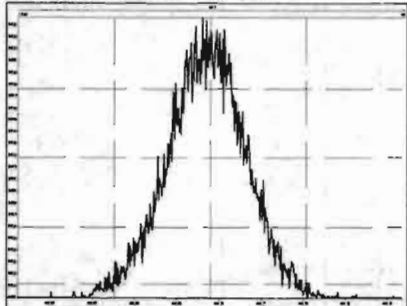
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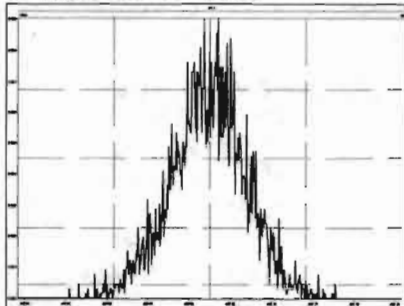
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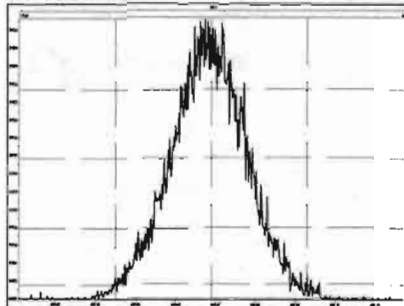
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M 466.9728 R 12628



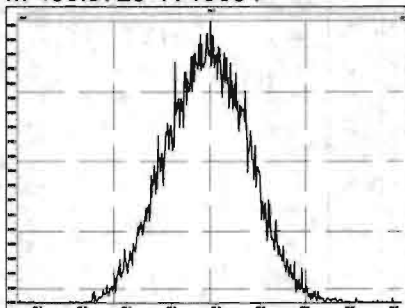
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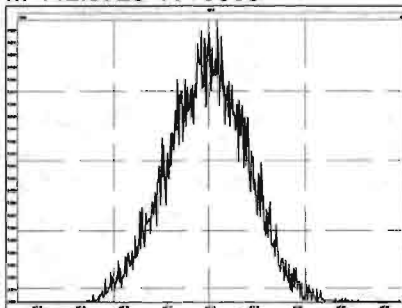
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Printed: Friday, May 29, 2020 07:20:18 Pacific Daylight Time

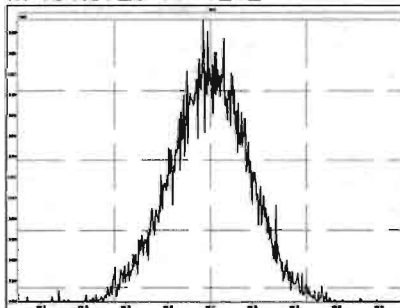
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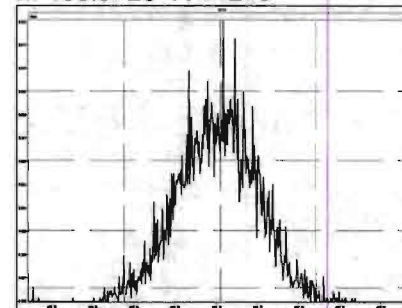
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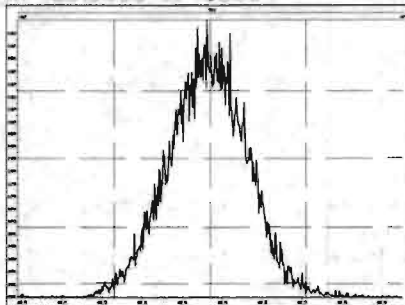
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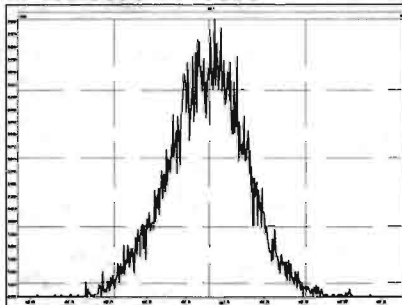
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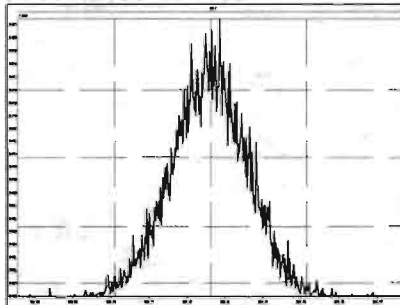
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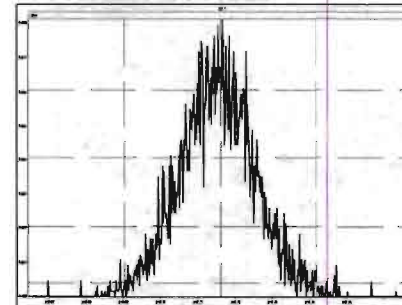
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M 504.9696 R 11681



M 516.9697 R 11905





Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

DB 2/12/20 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

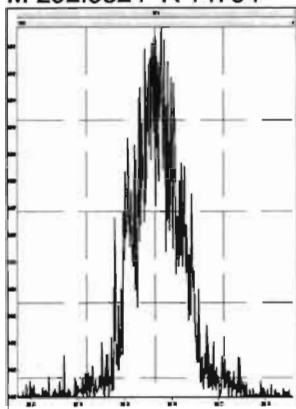
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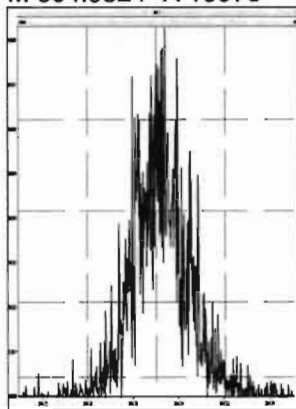
Compound name: 2,3,7,8-TCDF

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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

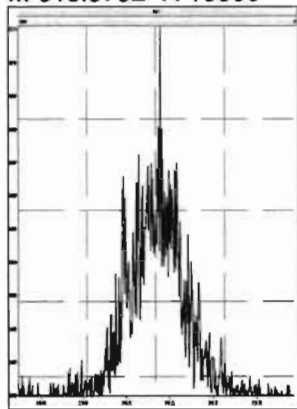
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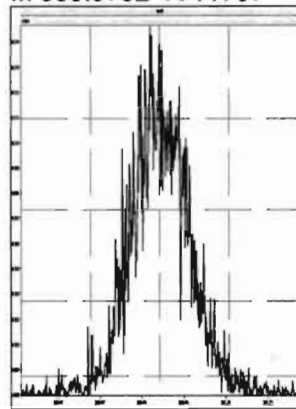
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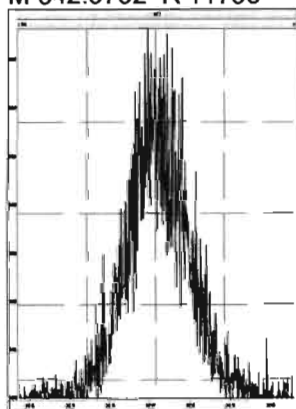
M 318.9792 R 15503



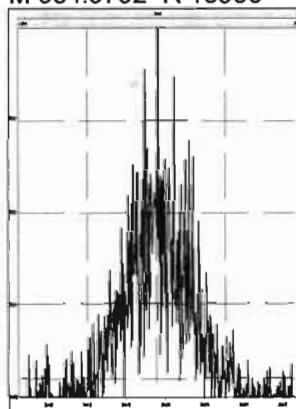
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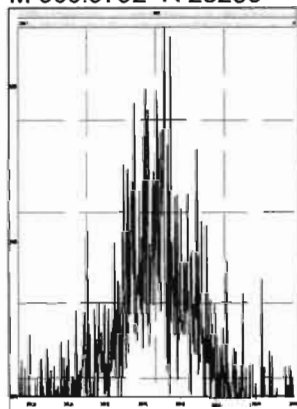
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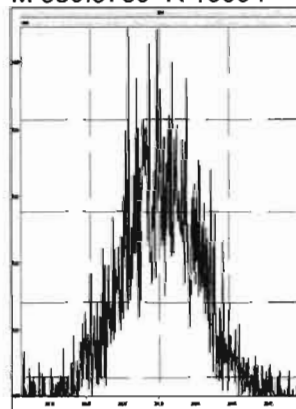
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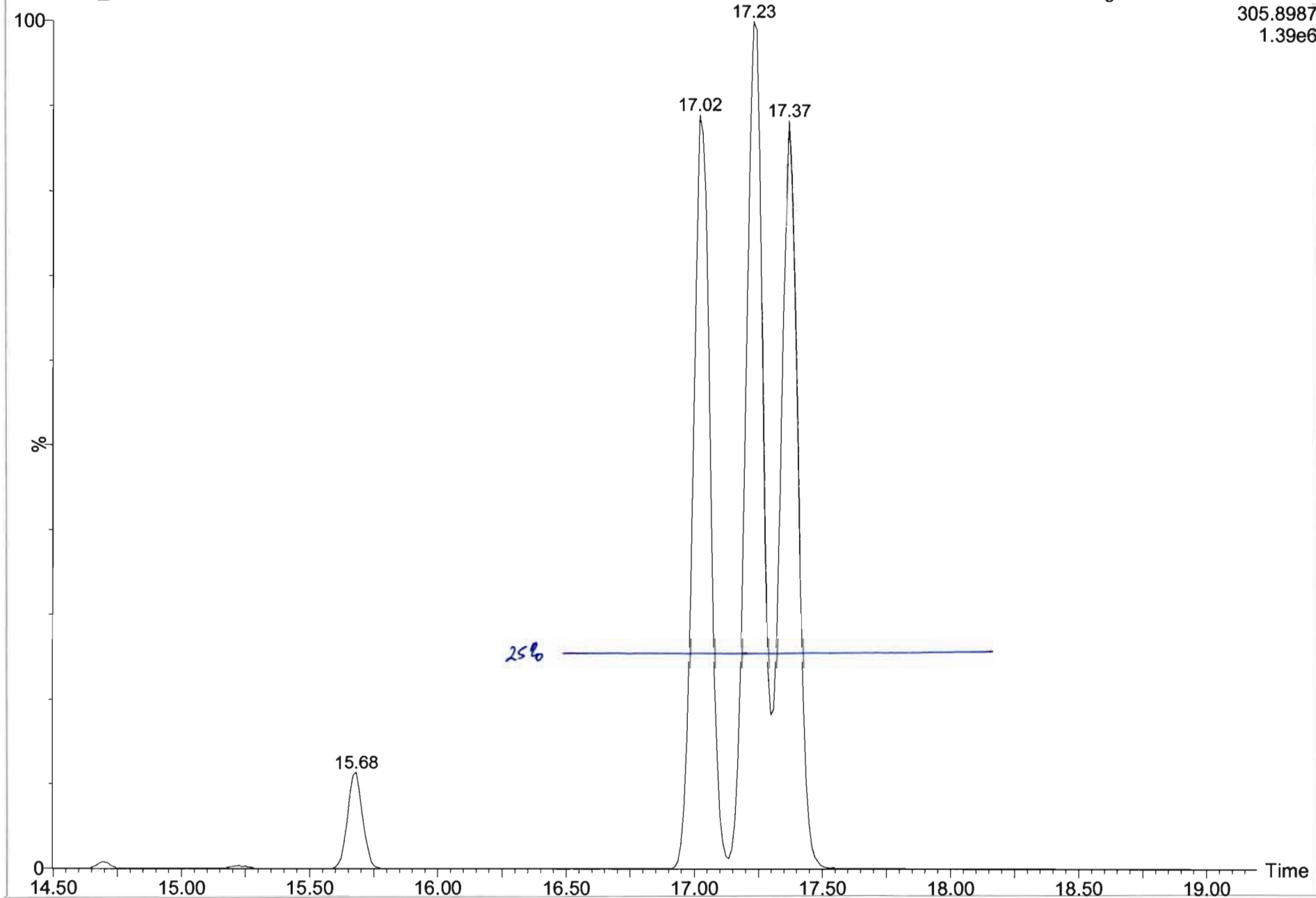


M 366.9792 R 28256



M 380.9760 R 13094







Dataset: U:\VG7.PRO\Results\200211D2\200111D2\_2.qld

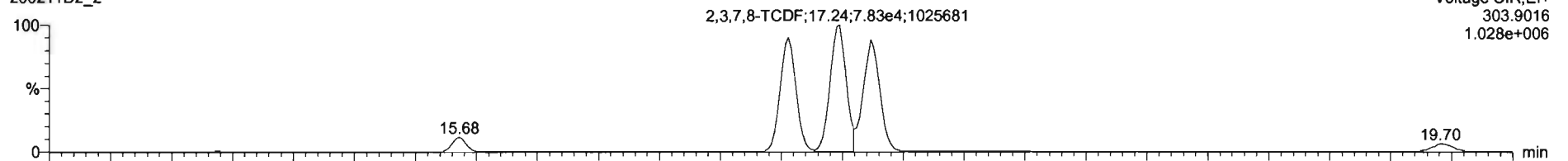
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Calibration: C:\MassLynx\Default.PRO\CurveDB\db-225\_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 14:52:18

Name: 200211D2\_2, Date: 11-Feb-2020, Time: 20:28:53, ID: CP200211D2-1 DB-225 CPSM, Description: DB-225 CPSM

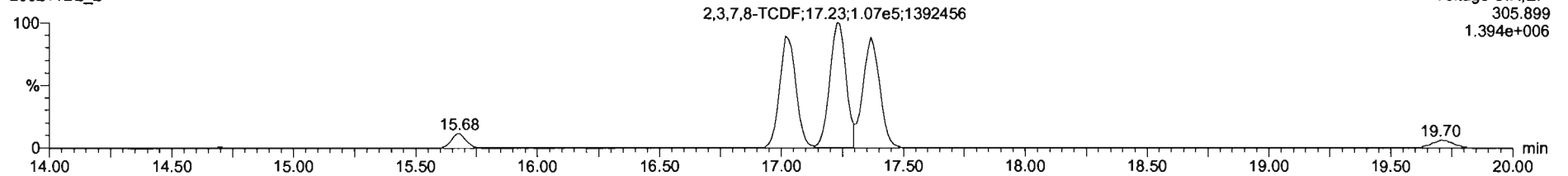
2,3,7,8-TCDF

200211D2\_2



Voltage SIR,EI+  
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1.028e+006

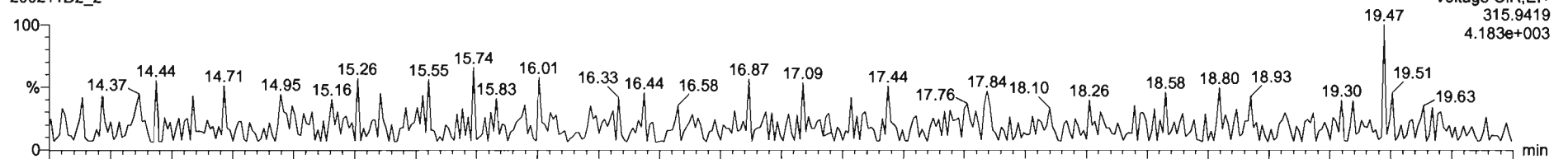
200211D2\_2



Voltage SIR,EI+  
305.899  
1.394e+006

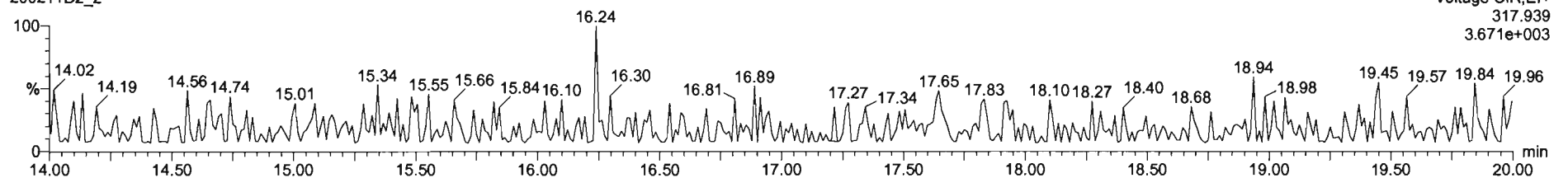
13C-2,3,7,8-TCDF

200211D2\_2



Voltage SIR,EI+  
315.9419  
4.183e+003

200211D2\_2



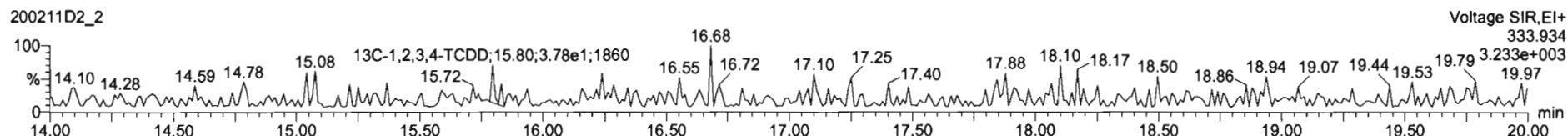
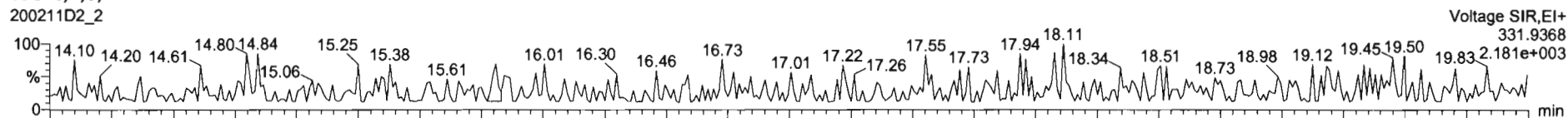
Voltage SIR,EI+  
317.939  
3.671e+003

Dataset: U:\VG7.PRO\Results\200211D2\200111D2\_2.qld

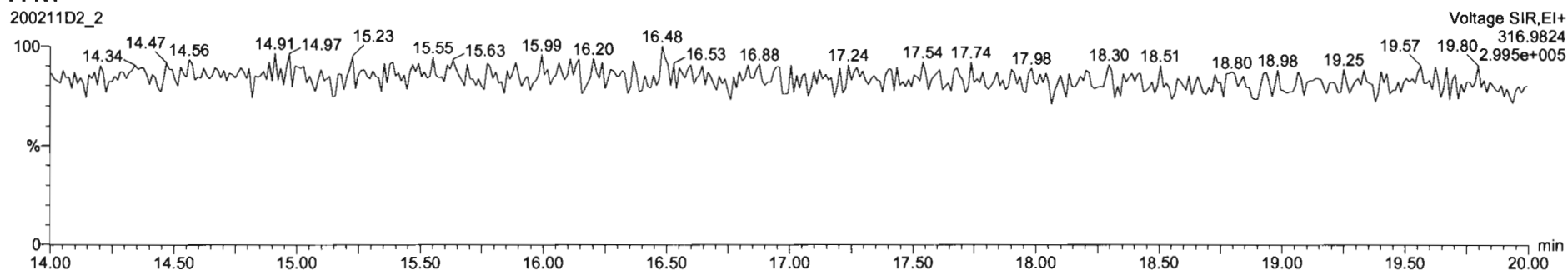
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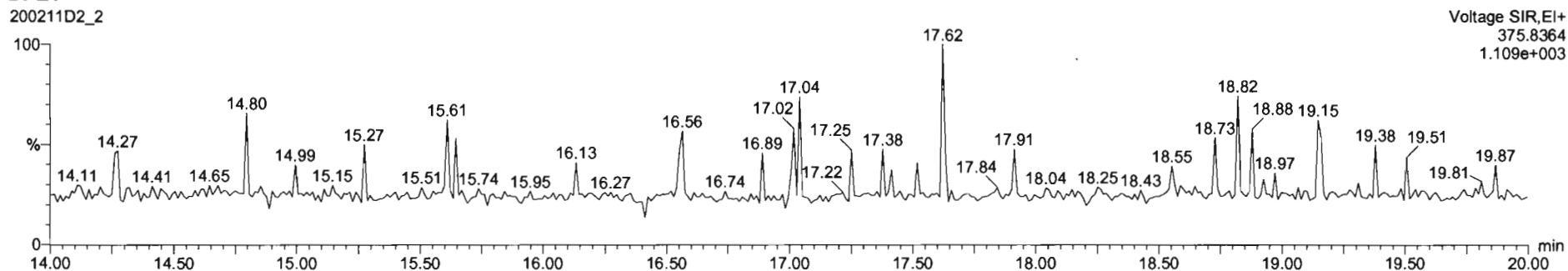
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

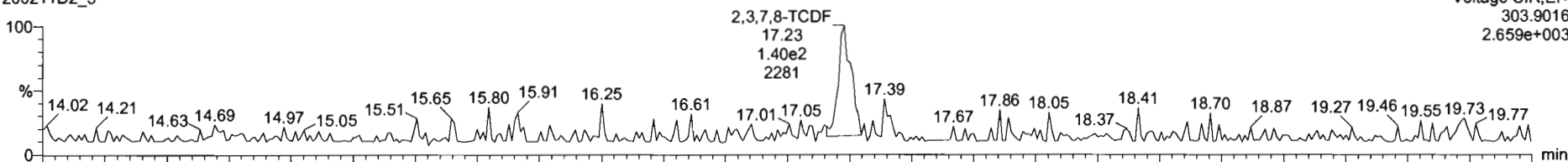
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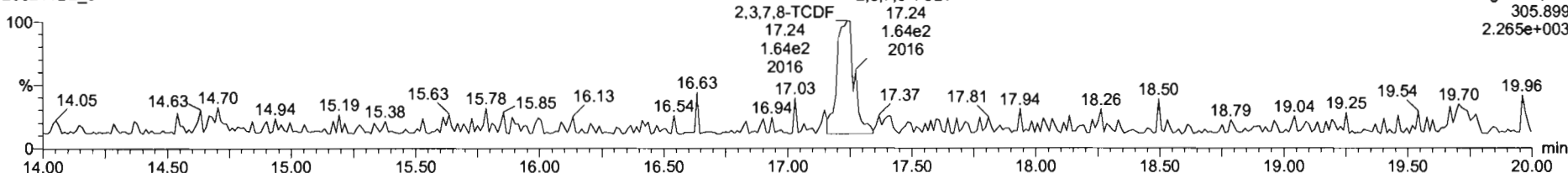
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2,3,7,8-TCDF

200211D2\_3

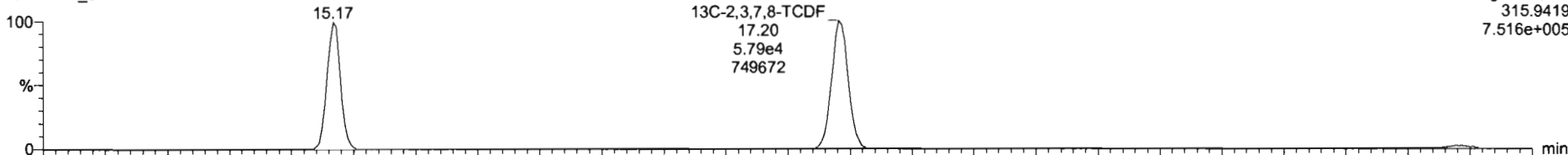


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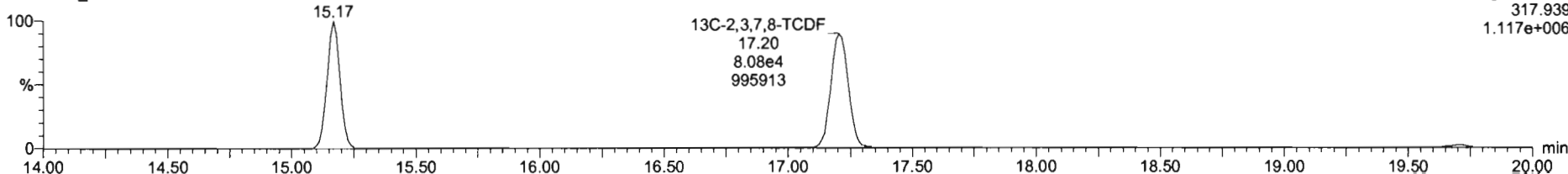


13C-2,3,7,8-TCDF

200211D2\_3



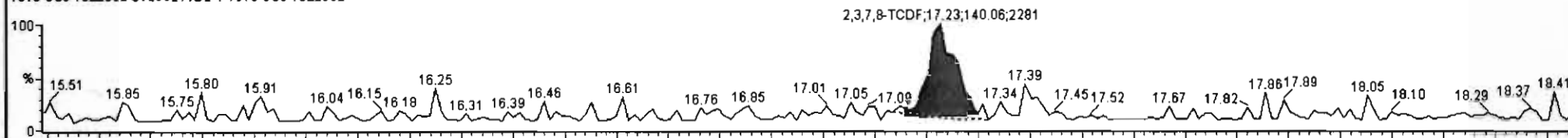
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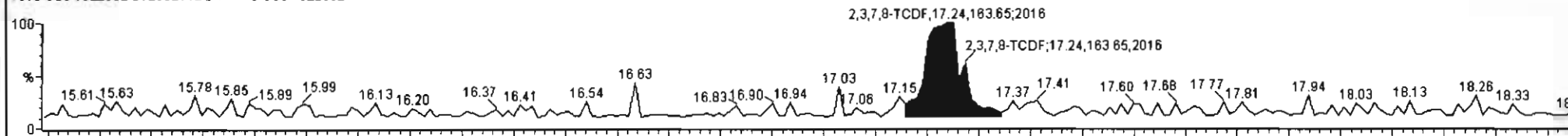
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.98	1.000	17.23	1.001	0.223	89.2	0.0831	0.223
2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	1.134	113	113	0.342	
3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	1.000	100	100	0.371	
4 13C-1,2,3,4-TCDF	1.04e5	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							

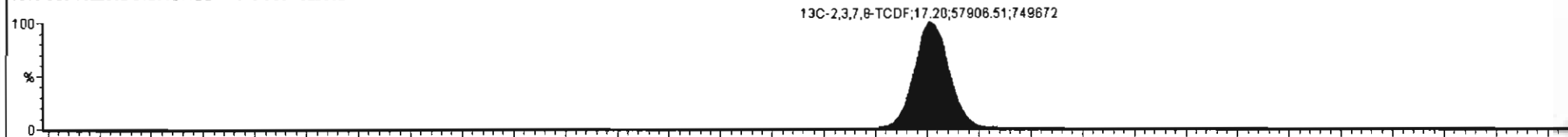
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1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



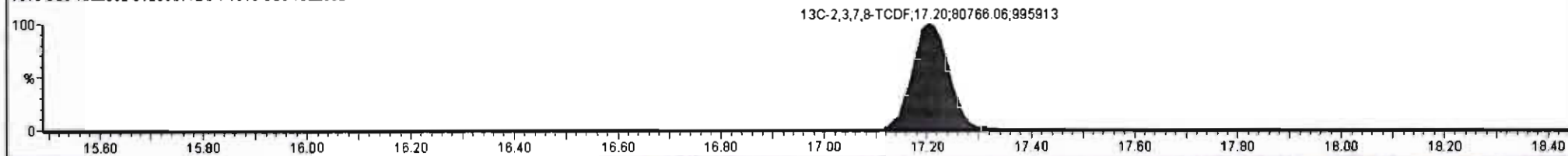
200211D2\_3  
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2\_3  
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200211D2\_3  
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



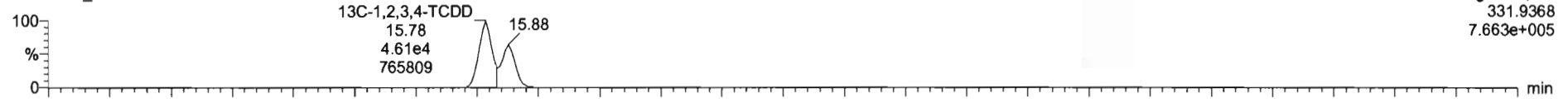
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

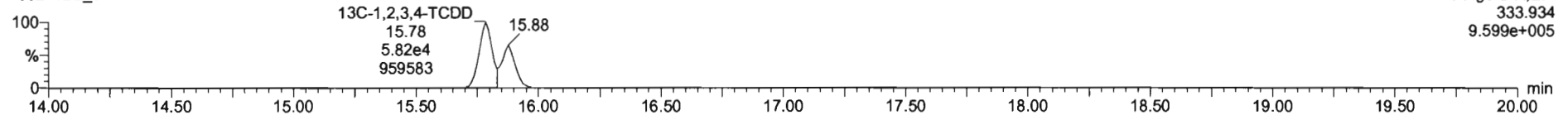
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13C-1,2,3,4-TCDD

200211D2\_3

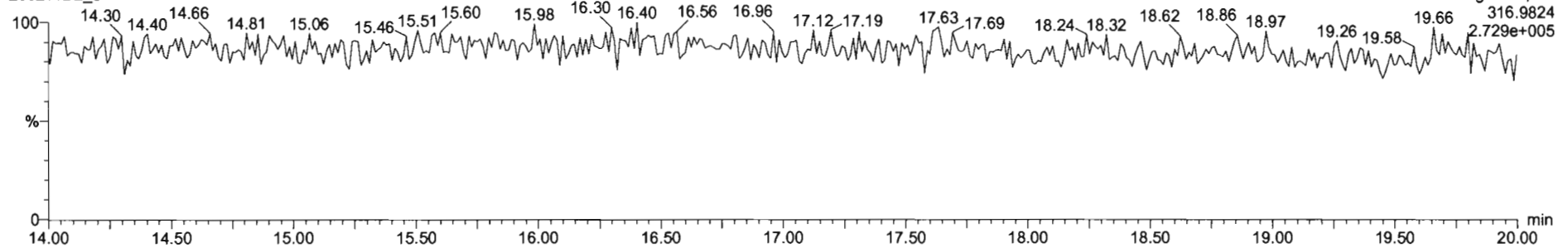


200211D2\_3



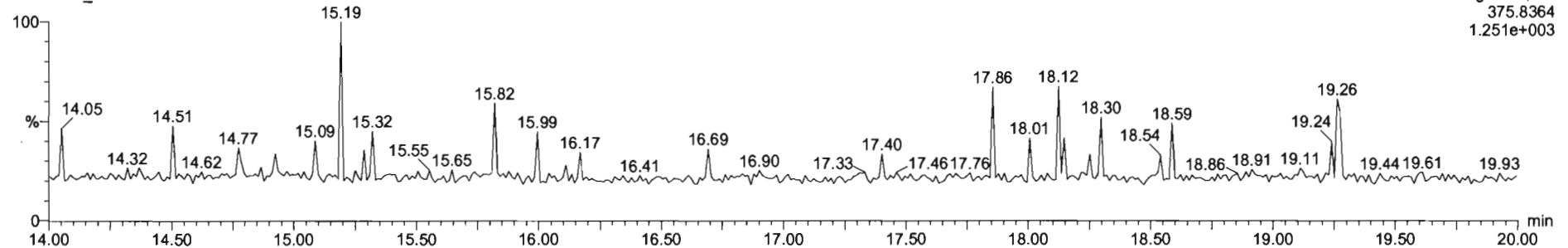
PFK1

200211D2\_3



DPE1

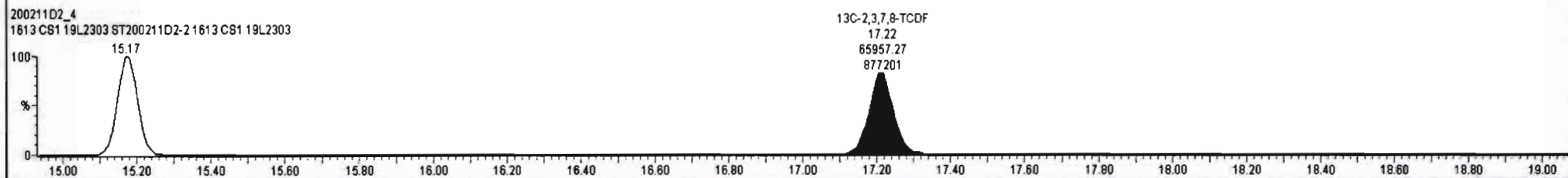
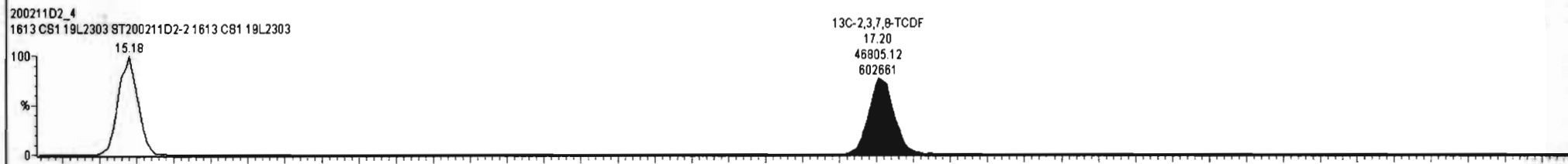
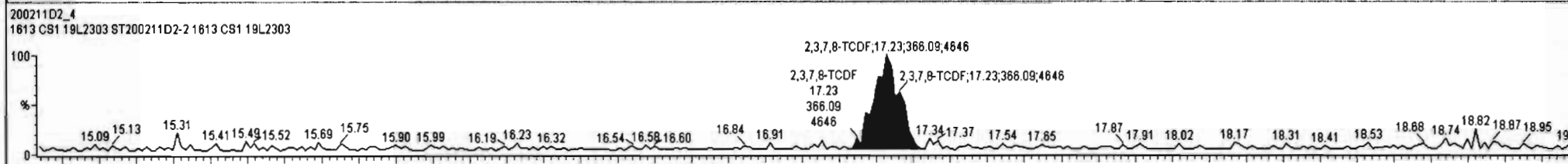
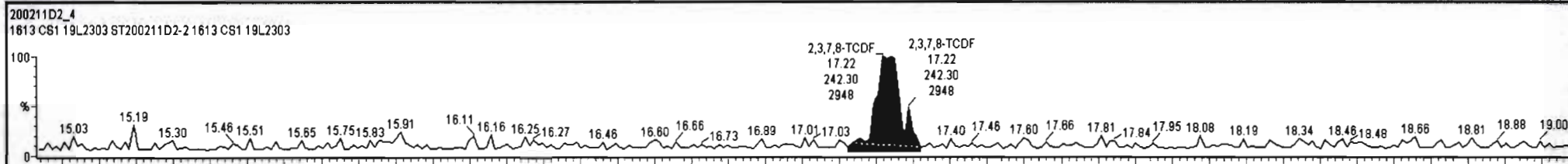
200211D2\_3





#	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	0.548
2	13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	1.133	91.7	91.7	0.381	
3	13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	1.000	100	100	0.412	
4	13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1026.38	1.000	15.78	0.000	83.5	83.5	0.324	
5	PFK1					1.000						
6	DPF1					1.000						

#	Name	RT	int Resp	m2 Resp	RA	ruy	EWPC	Conc.
1								



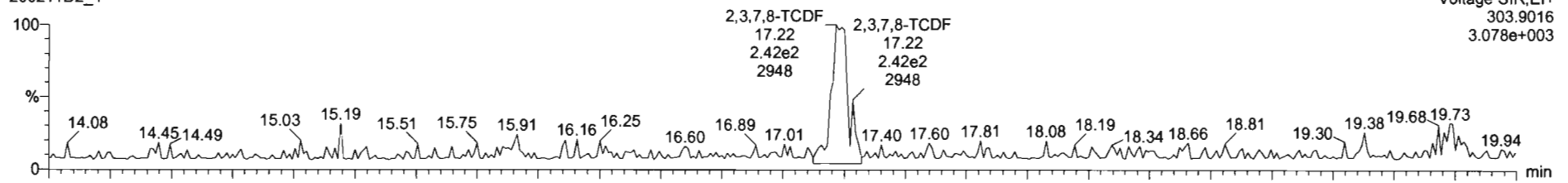
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

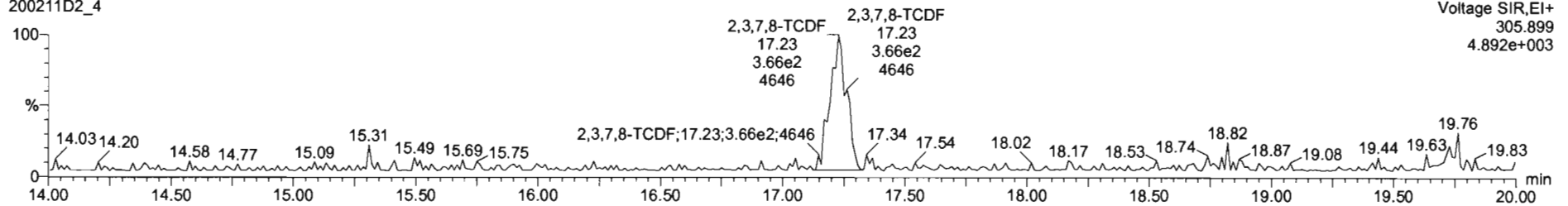
Name: 200211D2\_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200211D2\_4

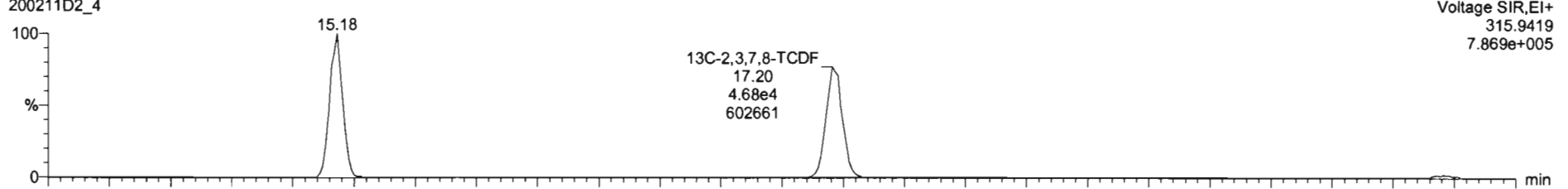


200211D2\_4

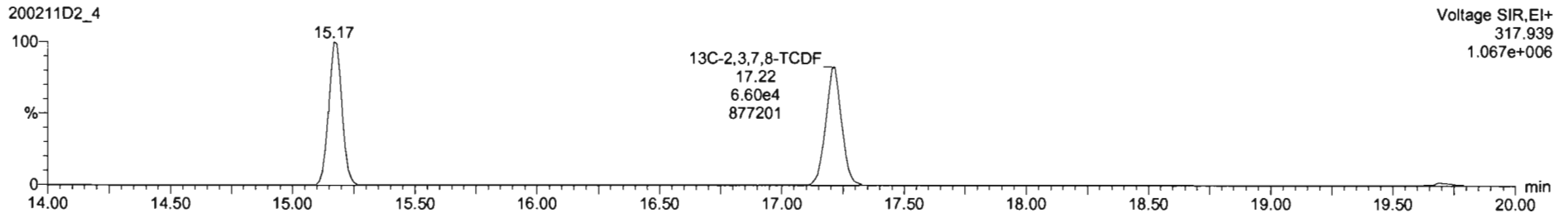


**13C-2,3,7,8-TCDF**

200211D2\_4



200211D2\_4



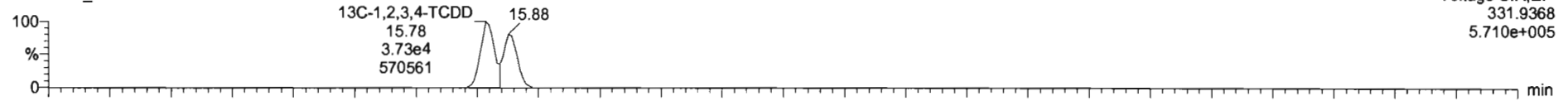
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

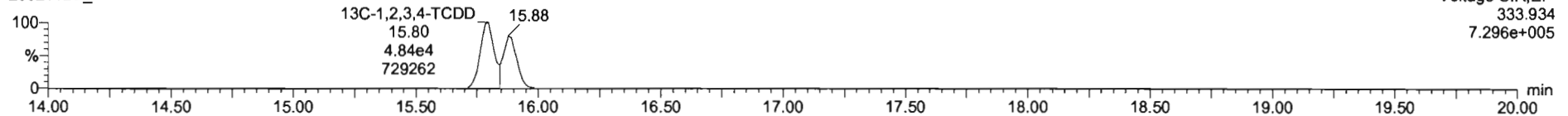
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**13C-1,2,3,4-TCDD**

200211D2\_4

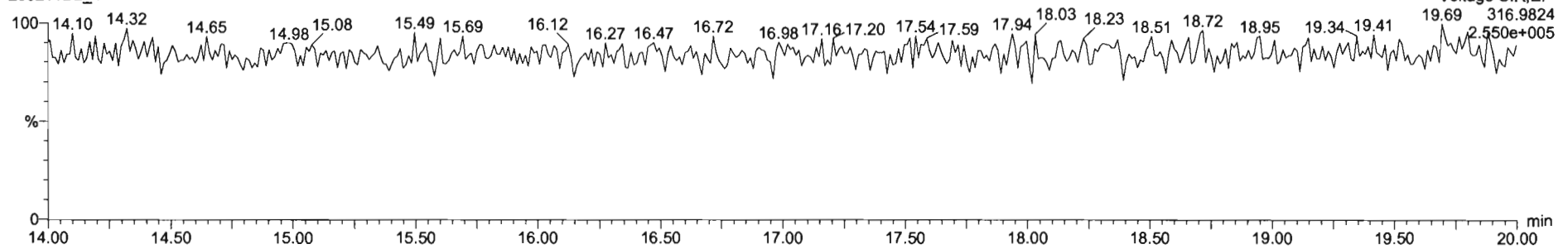


200211D2\_4



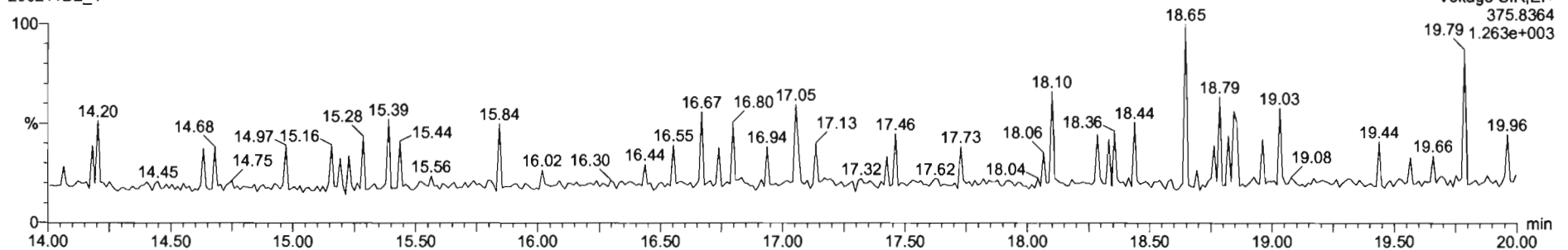
**PFK1**

200211D2\_4



**DPE1**

200211D2\_4



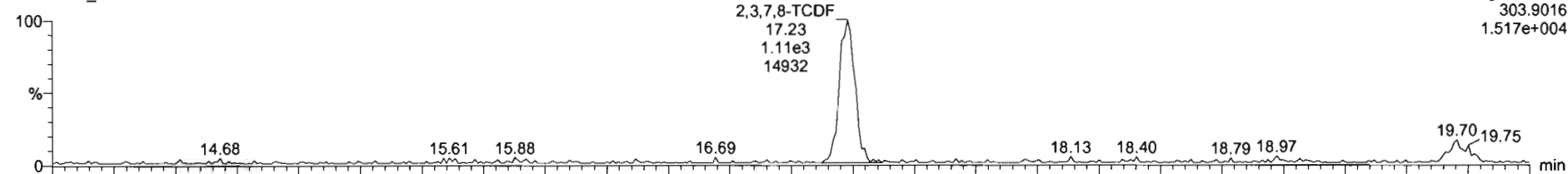
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

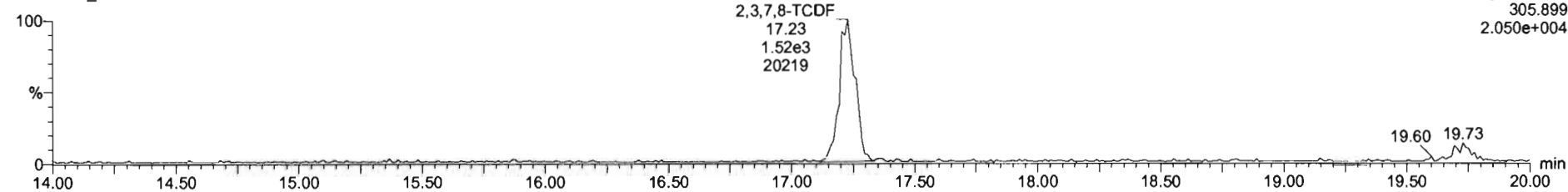
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**2,3,7,8-TCDF**

200211D2\_5

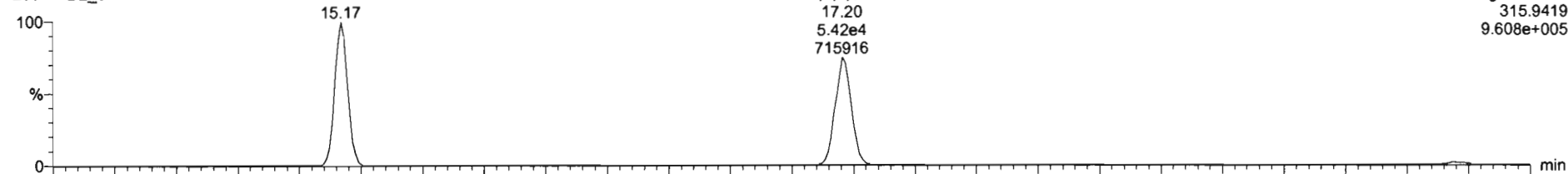


200211D2\_5

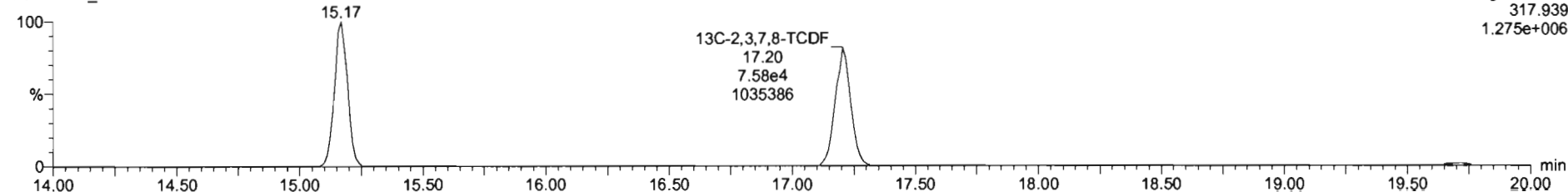


**13C-2,3,7,8-TCDF**

200211D2\_5



200211D2\_5

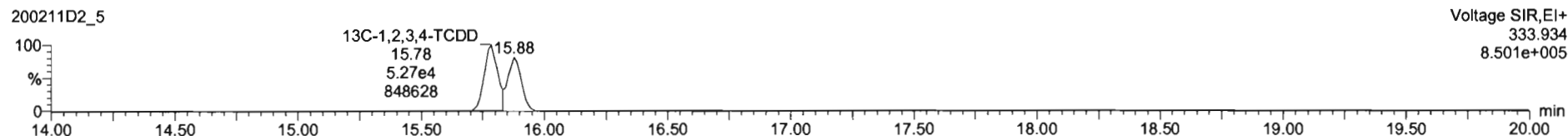
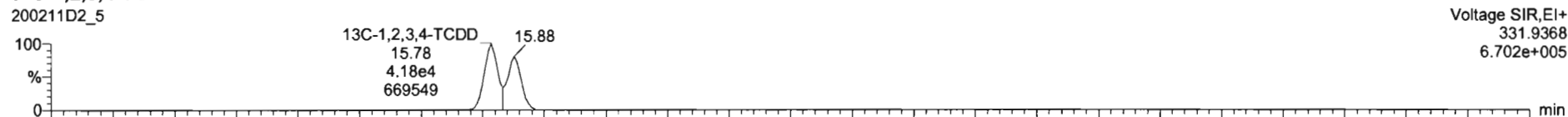


Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

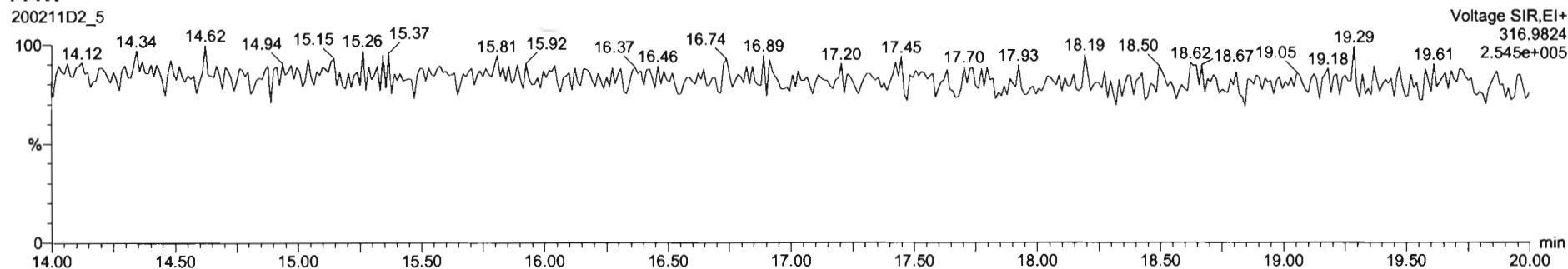
Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

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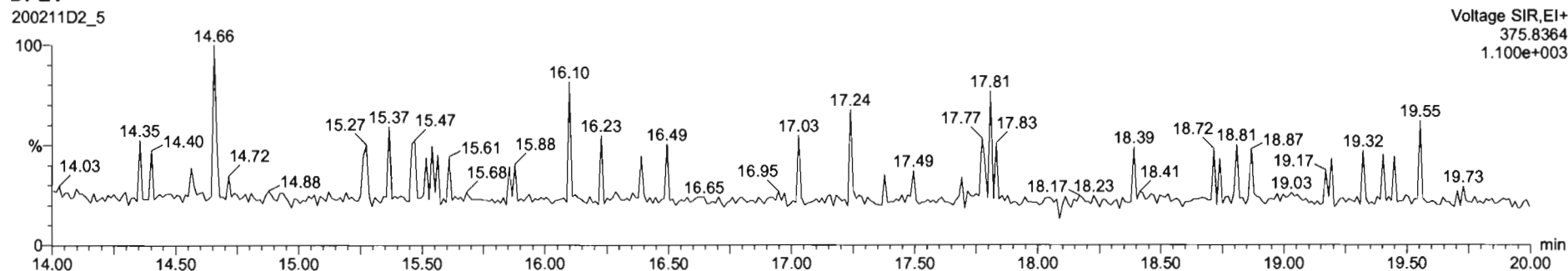
13C-1,2,3,4-TCDD



PFK1



DPE1





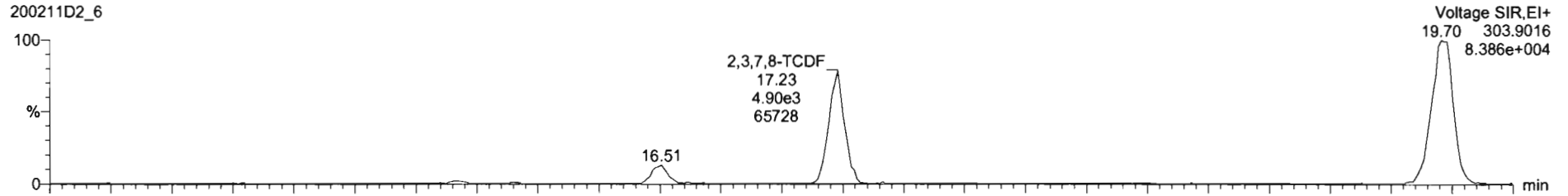
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

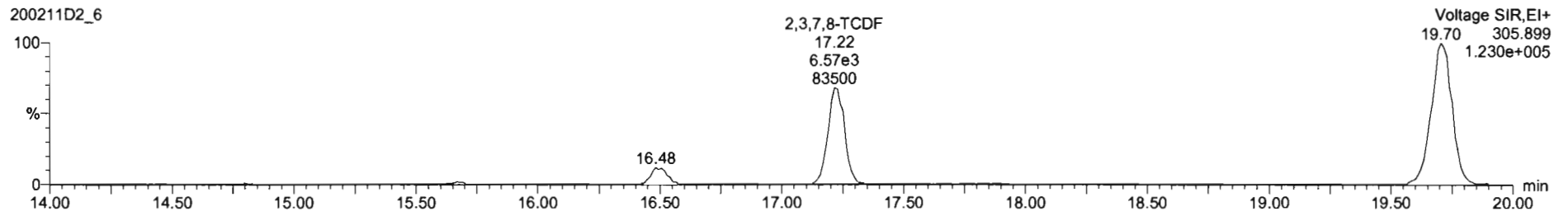
Name: 200211D2\_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200211D2\_6

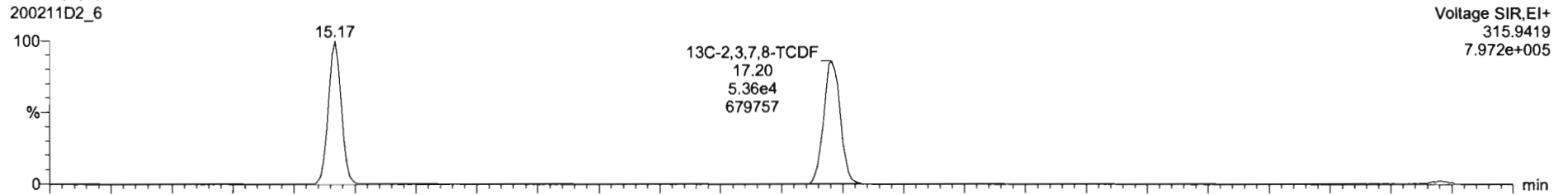


200211D2\_6

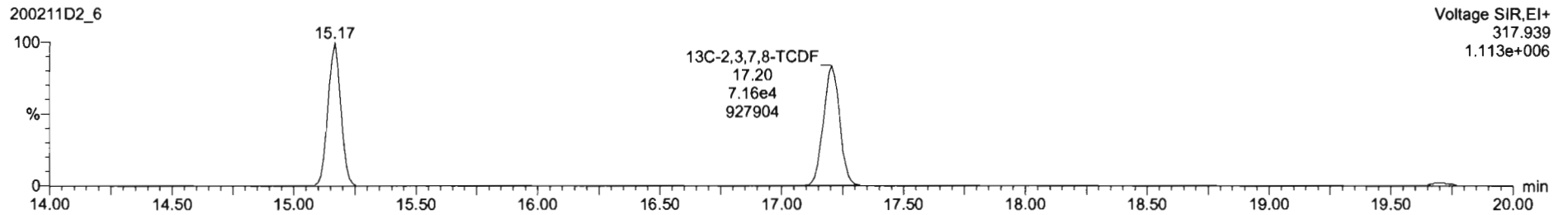


**13C-2,3,7,8-TCDF**

200211D2\_6



200211D2\_6



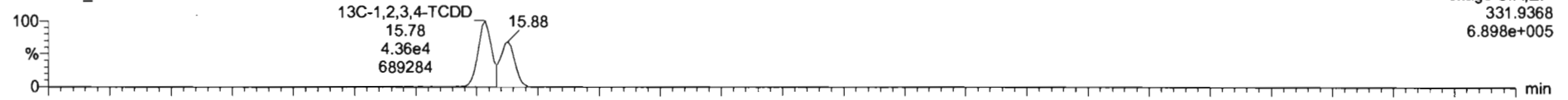
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

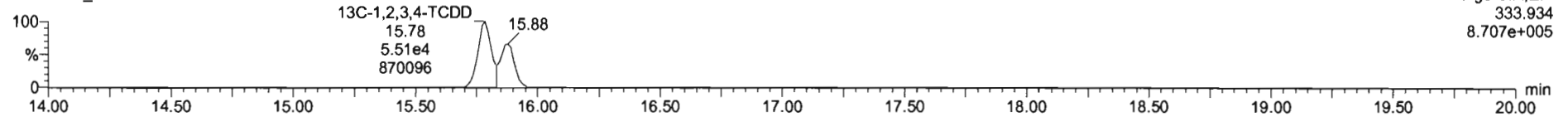
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**13C-1,2,3,4-TCDD**

200211D2\_6

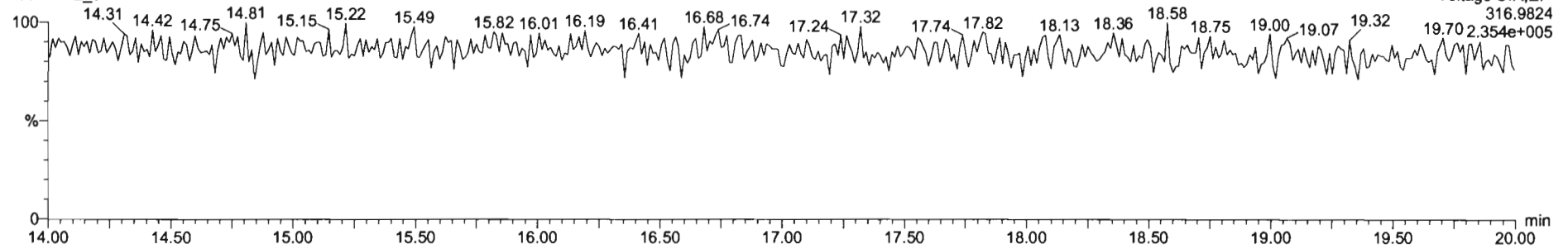


200211D2\_6



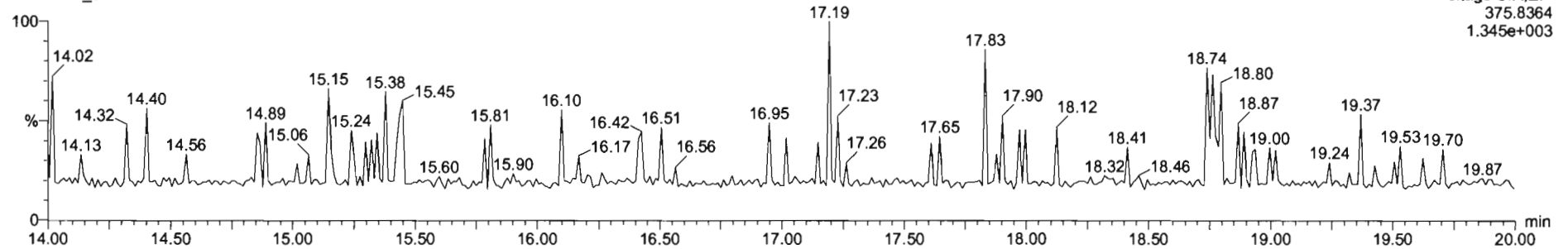
**PFK1**

200211D2\_6



**DPE1**

200211D2\_6



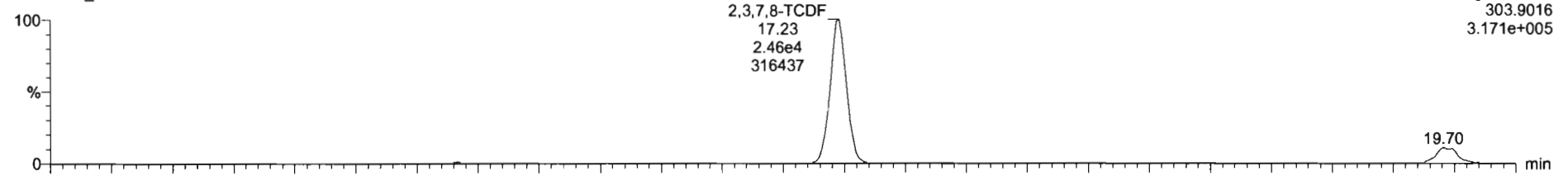
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

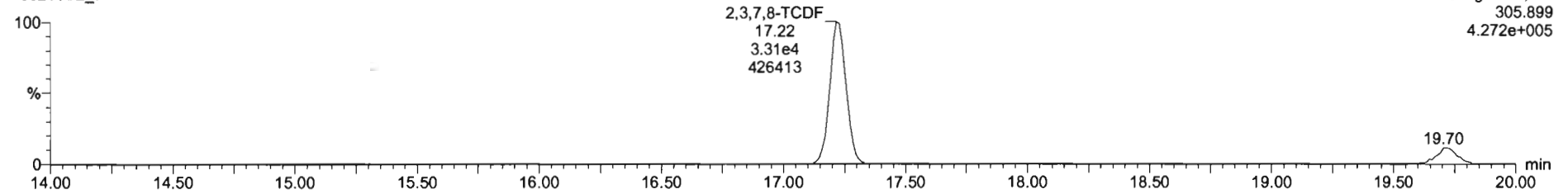
Name: 200211D2\_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200211D2\_7

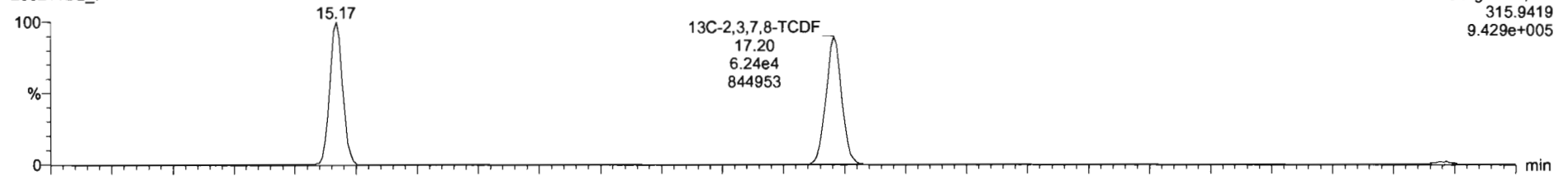


200211D2\_7

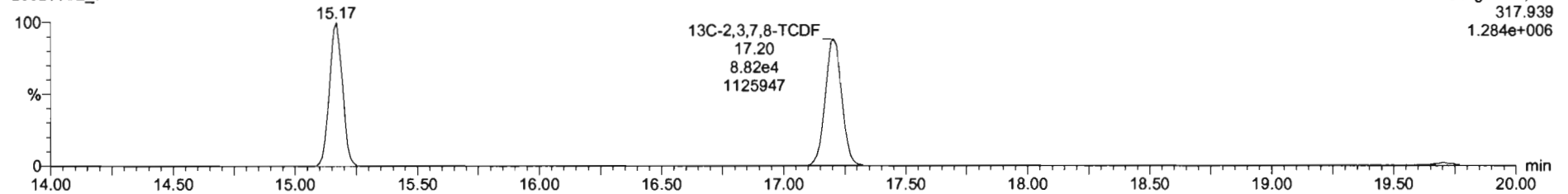


**13C-2,3,7,8-TCDF**

200211D2\_7



200211D2\_7



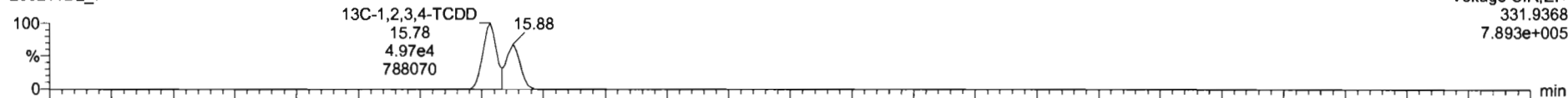
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

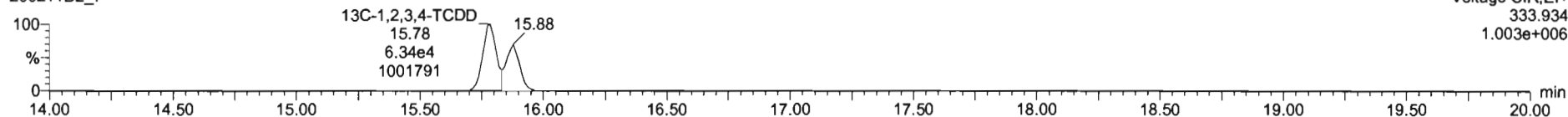
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**13C-1,2,3,4-TCDD**

200211D2\_7

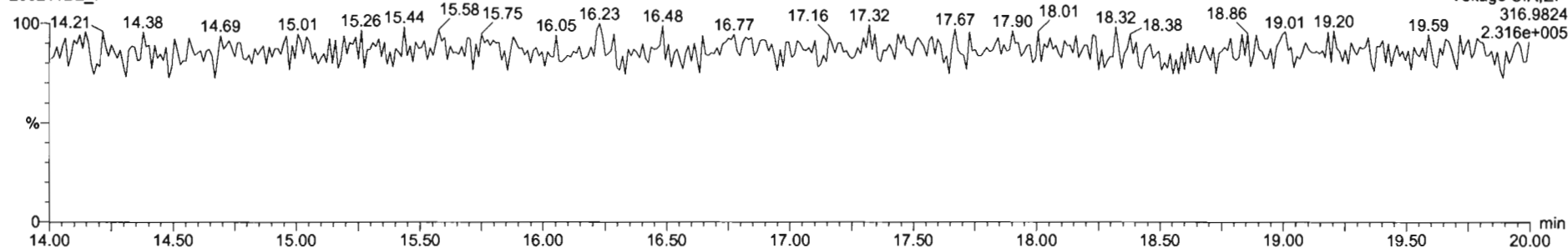


200211D2\_7



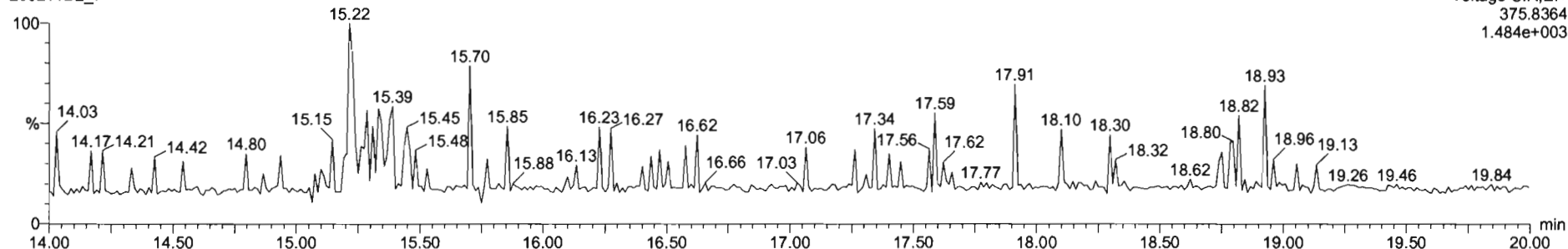
**PFK1**

200211D2\_7



**DPE1**

200211D2\_7



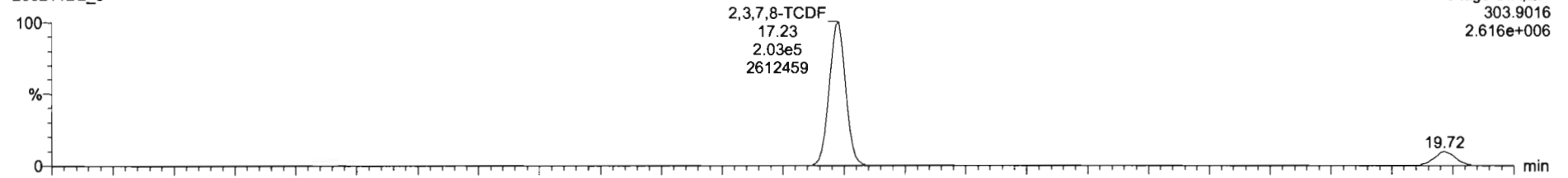
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2\_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

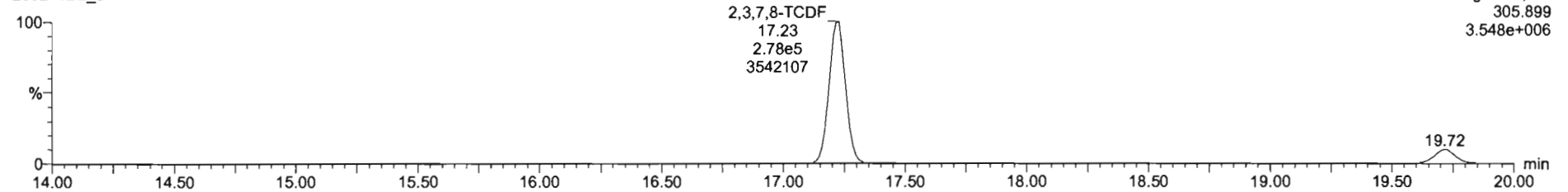
**2,3,7,8-TCDF**

200211D2\_8



Voltage SIR,EI+  
303.9016  
2.616e+006

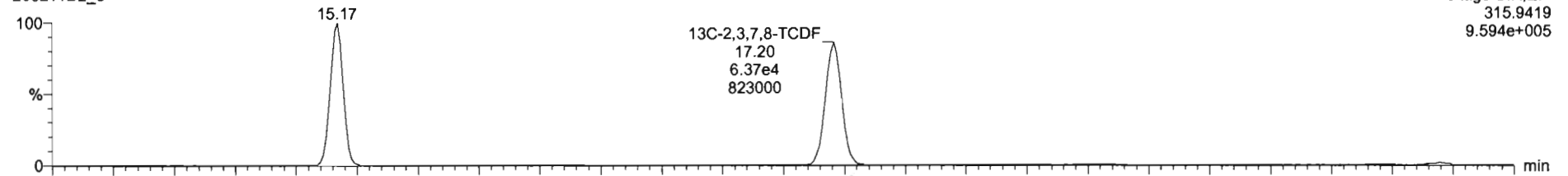
200211D2\_8



Voltage SIR,EI+  
305.899  
3.548e+006

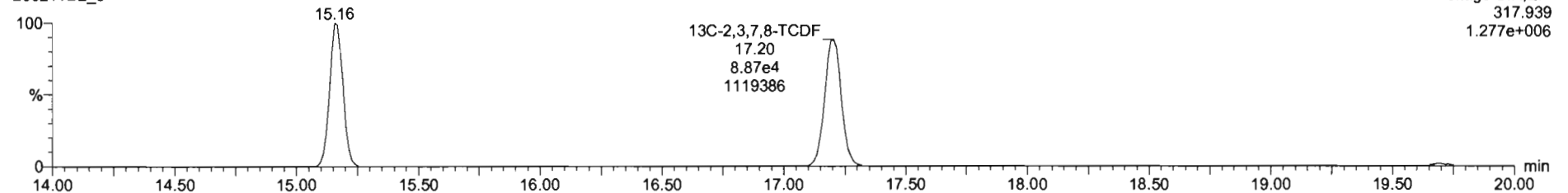
**13C-2,3,7,8-TCDF**

200211D2\_8



Voltage SIR,EI+  
315.9419  
9.594e+005

200211D2\_8



Voltage SIR,EI+  
317.939  
1.277e+006



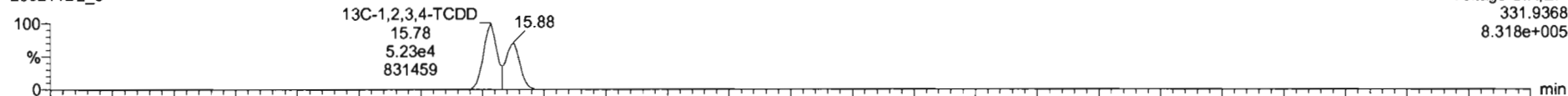
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

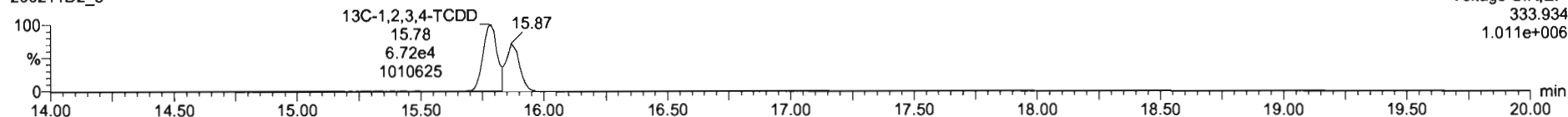
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13C-1,2,3,4-TCDD

200211D2\_8

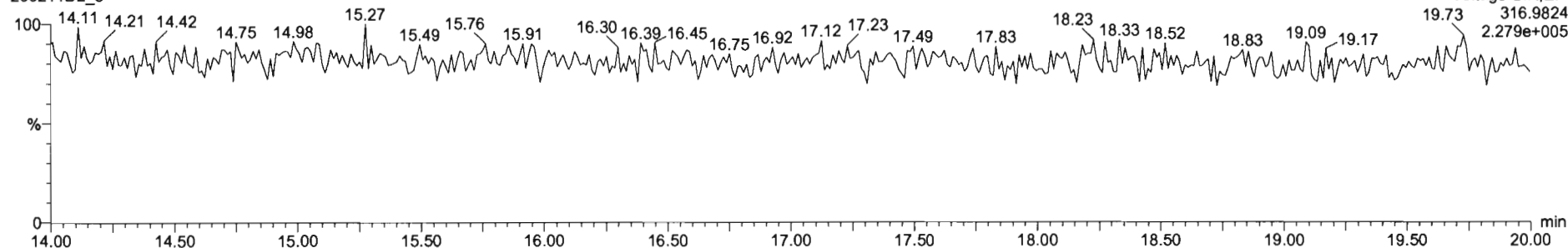


200211D2\_8



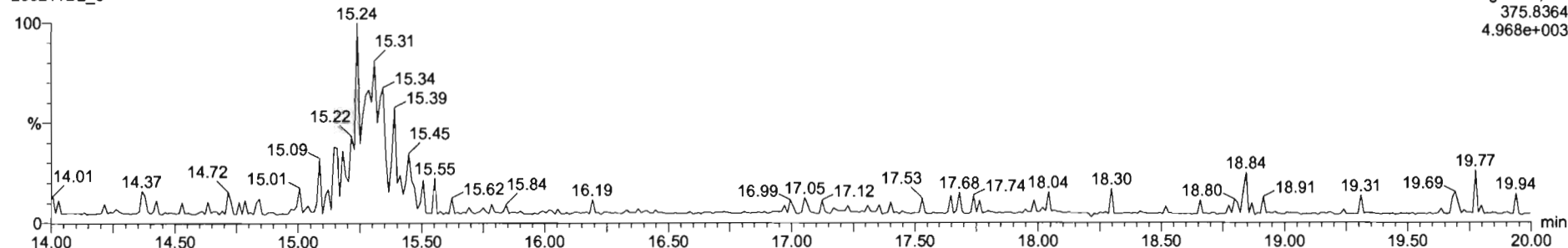
PFK1

200211D2\_8

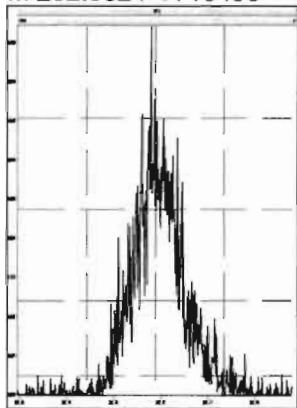


DPE1

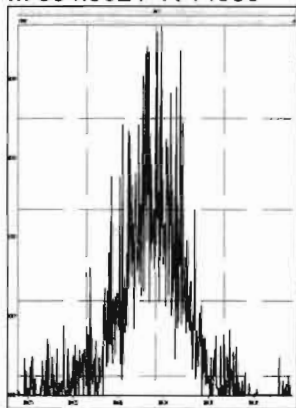
200211D2\_8



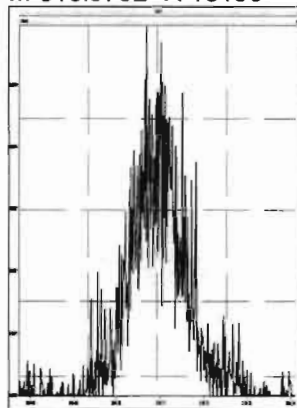
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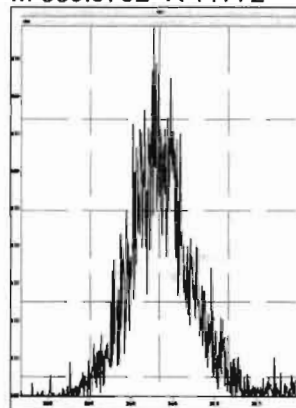
M 304.9824 R 14983



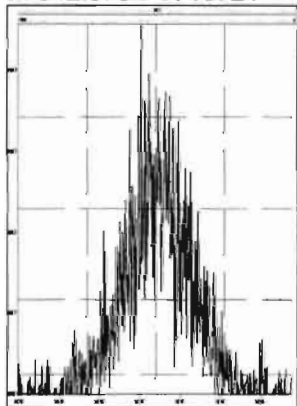
M 318.9792 R 15196



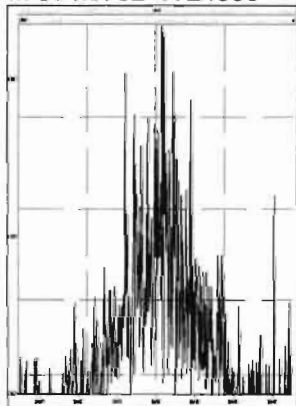
M 330.9792 R 11772



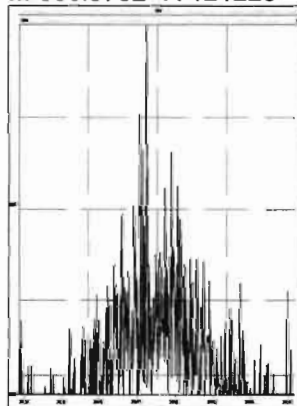
M 342.9792 R 13721



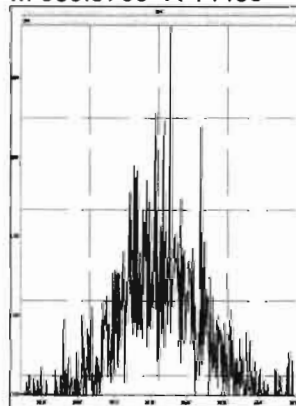
M 354.9792 R 24553



M 366.9792 R 121228



M 380.9760 R 14409



Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:52:52 Pacific Standard Time

*DB 2/12/20 07:52/2020*

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2\_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	1.29e4	0.77	NO	0.982	1.000	17.22	10.800	108	0.183
2	13C-2,3,7,8-TCDF	1.22e5	0.73	NO	1.08	1.000	17.20	92.025	92.0	0.305
3	13C-1,2,3,4-TCDF	1.22e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.330
4	13C-1,2,3,4-TCDD	8.99e4	0.76	NO	1030	1.000	15.78	87.563	87.6	0.304

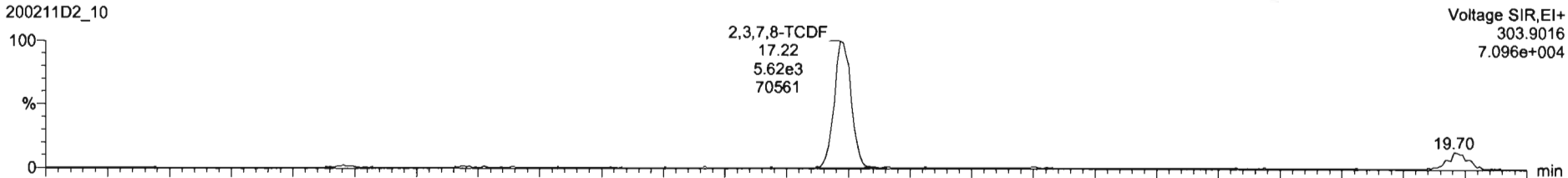
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

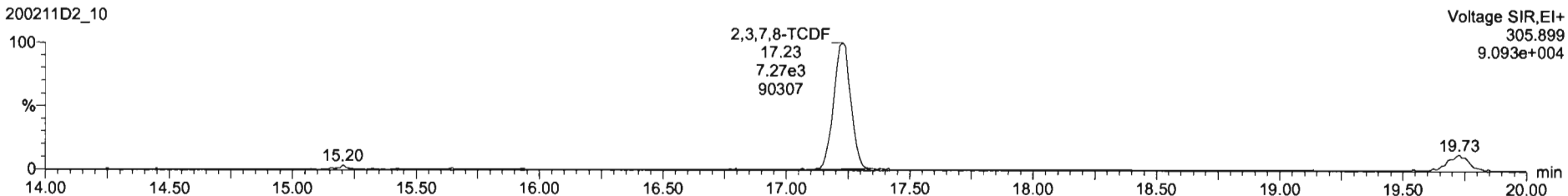
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2\_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

**2,3,7,8-TCDF**  
200211D2\_10

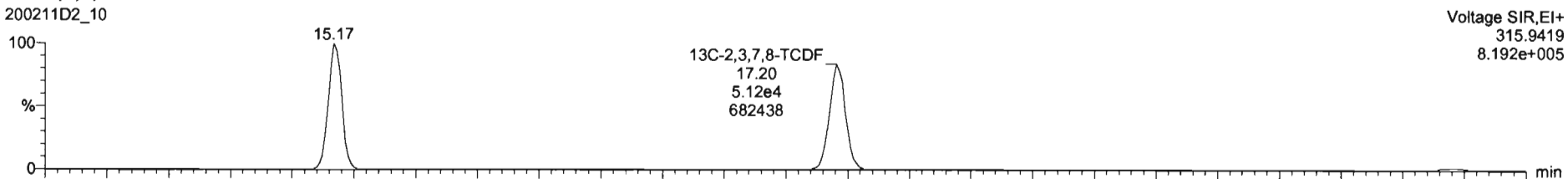


200211D2\_10

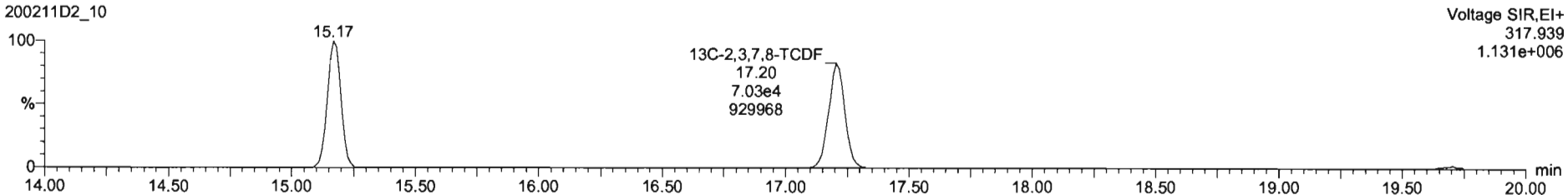


**13C-2,3,7,8-TCDF**

200211D2\_10



200211D2\_10



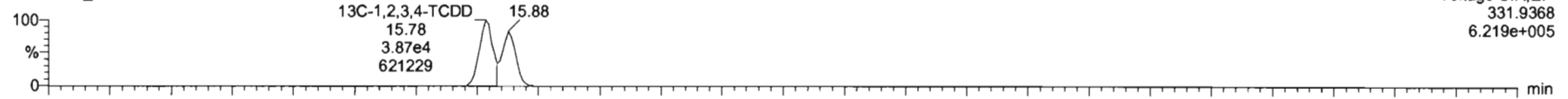
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Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

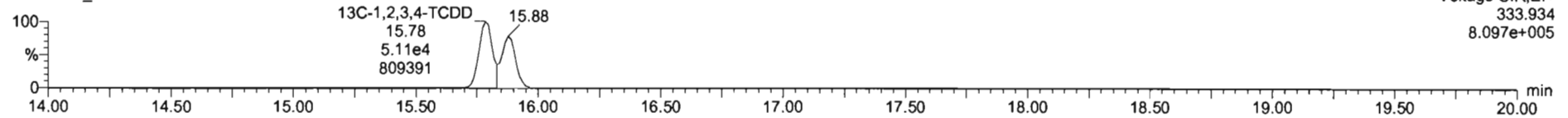
Name: 200211D2\_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200211D2\_10

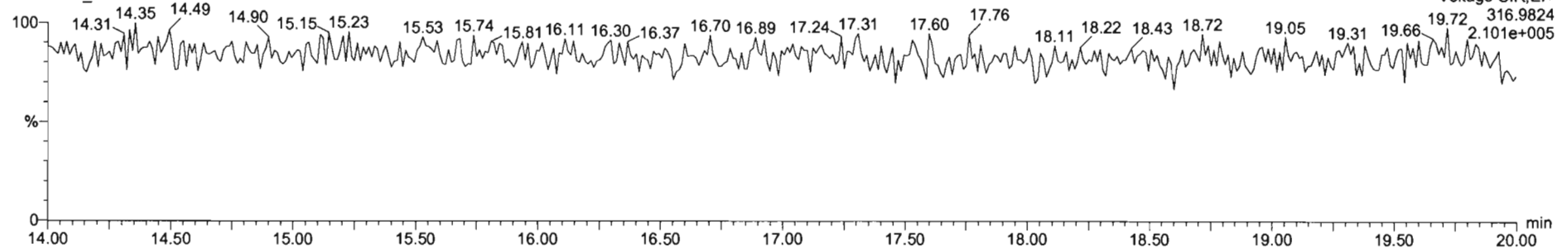


200211D2\_10



**PFK1**

200211D2\_10



**DPE1**

200211D2\_10

