



July 10, 2020

**Vista Work Order No. 2001033**

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

Dear Ms. Peterson,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on May 12, 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. 2001033**

**Case Narrative**

**Sample Condition on Receipt:**

Six sediment samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

**Analytical Notes:**

**EPA Method 1613B**

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

**Holding Times**

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

**Quality Control**

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

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with each preparation batch. No analytes were detected in the Method Blanks. The OPR recoveries were within the method acceptance criteria.

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

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# Sample Inventory Report

<b>Vista Sample ID</b>	<b>Client Sample ID</b>	<b>Sampled</b>	<b>Received</b>	<b>Components/Containers</b>
2001033-01	PDI-087SC-B-00-02-200509	09-May-20 08:40	12-May-20 09:50	Amber Glass, 120 mL
2001033-02	PDI-087SC-B-02-05-200509	09-May-20 08:40	12-May-20 09:50	Amber Glass, 120 mL
2001033-03	PDI-087SC-B-05-07-200509	09-May-20 08:40	12-May-20 09:50	Amber Glass, 120 mL
2001033-04	PDI-089SC-B-00-02-200509	09-May-20 09:50	12-May-20 09:50	Amber Glass, 120 mL
2001033-05	PDI-089SC-B-02-05-200509	09-May-20 09:50	12-May-20 09:50	Amber Glass, 120 mL
2001033-06	PDI-089SC-B-05-07-200509	09-May-20 09:50	12-May-20 09:50	Amber Glass, 120 mL



## **ANALYTICAL RESULTS**

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0E0232 Date Extracted: 27-May-2020 13:23		Lab Sample: B0E0232-BLK1 Date Analyzed: 18-Jun-20 16:12 Column: ZB-5MS					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.131			IS 13C-2,3,7,8-TCDD	97.7	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0985			13C-1,2,3,7,8-PeCDD	92.0	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.227			13C-1,2,3,4,7,8-HxCDD	77.8	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.225			13C-1,2,3,6,7,8-HxCDD	92.1	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.285			13C-1,2,3,7,8,9-HxCDD	89.9	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.264			13C-1,2,3,4,6,7,8-HpCDD	72.7	23 - 140		
OCDD	ND	0.168			13C-OCDD	58.9	17 - 157		
2,3,7,8-TCDF	ND	0.180			13C-2,3,7,8-TCDF	89.3	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0736			13C-1,2,3,7,8-PeCDF	92.8	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0667			13C-2,3,4,7,8-PeCDF	91.1	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.102			13C-1,2,3,4,7,8-HxCDF	81.0	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0928			13C-1,2,3,6,7,8-HxCDF	89.6	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.109			13C-2,3,4,6,7,8-HxCDF	85.8	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.160			13C-1,2,3,7,8,9-HxCDF	84.2	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.311			13C-1,2,3,4,6,7,8-HpCDF	77.4	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.358			13C-1,2,3,4,7,8,9-HpCDF	75.1	26 - 138		
OCDF	ND	0.148			13C-OCDF	62.7	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	111	35 - 197		
					<b>Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)</b>				
					TEQMinWHO2005Dioxin		0.00		
<b>TOTALS</b>									
Total TCDD	ND	0.131							
Total PeCDD	ND	0.0985							
Total HxCDD	ND	0.285							
Total HpCDD	ND	0.264							
Total TCDF	ND	0.180							
Total PeCDF	ND	0.0736							
Total HxCDF	ND	0.160							
Total HpCDF	ND	0.358							

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: B0E0232 Date Extracted: 27-May-2020 13:23		Lab Sample: B0E0232-BS1 Date Analyzed: 18-Jun-20 13:52 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	19.4	20.0	96.9	67 - 158	IS 13C-2,3,7,8-TCDD	91.0	20 - 175
1,2,3,7,8-PeCDD	101	100	101	70 - 142	13C-1,2,3,7,8-PeCDD	96.4	21 - 227
1,2,3,4,7,8-HxCDD	107	100	107	70 - 164	13C-1,2,3,4,7,8-HxCDD	76.8	21 - 193
1,2,3,6,7,8-HxCDD	104	100	104	76 - 134	13C-1,2,3,6,7,8-HxCDD	96.1	25 - 163
1,2,3,7,8,9-HxCDD	100	100	100	64 - 162	13C-1,2,3,7,8,9-HxCDD	91.3	21 - 193
1,2,3,4,6,7,8-HpCDD	102	100	102	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	78.7	26 - 166
OCDD	196	200	98.2	78 - 144	13C-OCDD	66.6	13 - 199
2,3,7,8-TCDF	20.0	20.0	99.9	75 - 158	13C-2,3,7,8-TCDF	78.8	22 - 152
1,2,3,7,8-PeCDF	99.9	100	99.9	80 - 134	13C-1,2,3,7,8-PeCDF	92.6	21 - 192
2,3,4,7,8-PeCDF	101	100	101	68 - 160	13C-2,3,4,7,8-PeCDF	92.6	13 - 328
1,2,3,4,7,8-HxCDF	100	100	100	72 - 134	13C-1,2,3,4,7,8-HxCDF	82.7	19 - 202
1,2,3,6,7,8-HxCDF	99.7	100	99.7	84 - 130	13C-1,2,3,6,7,8-HxCDF	93.3	21 - 159
2,3,4,6,7,8-HxCDF	101	100	101	70 - 156	13C-2,3,4,6,7,8-HxCDF	88.9	22 - 176
1,2,3,7,8,9-HxCDF	98.7	100	98.7	78 - 130	13C-1,2,3,7,8,9-HxCDF	84.4	17 - 205
1,2,3,4,6,7,8-HpCDF	99.2	100	99.2	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	84.3	21 - 158
1,2,3,4,7,8,9-HpCDF	99.1	100	99.1	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	76.5	20 - 186
OCDF	198	200	98.9	63 - 170	13C-OCDF	71.3	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	105	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 1.00 g		QC Batch: B0F0186 Date Extracted: 19-Jun-2020 9:52		Lab Sample: B0F0186-BLK1 Date Analyzed: 24-Jun-20 11:24 Column: ZB-5MS					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.857			IS 13C-2,3,7,8-TCDD	87.9	25 - 164		
1,2,3,7,8-PeCDD	ND	0.764			13C-1,2,3,7,8-PeCDD	89.2	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.973			13C-1,2,3,4,7,8-HxCDD	80.8	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.977			13C-1,2,3,6,7,8-HxCDD	79.6	28 - 130		
1,2,3,7,8,9-HxCDD	ND	1.18			13C-1,2,3,7,8,9-HxCDD	79.0	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	1.46			13C-1,2,3,4,6,7,8-HpCDD	71.0	23 - 140		
OCDD	ND	2.76			13C-OCDD	61.6	17 - 157		
2,3,7,8-TCDF	ND	0.615			13C-2,3,7,8-TCDF	78.9	24 - 169		
1,2,3,7,8-PeCDF	ND	0.611			13C-1,2,3,7,8-PeCDF	87.7	24 - 185		
2,3,4,7,8-PeCDF	ND	0.584			13C-2,3,4,7,8-PeCDF	87.5	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.720			13C-1,2,3,4,7,8-HxCDF	81.8	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.637			13C-1,2,3,6,7,8-HxCDF	81.4	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.757			13C-2,3,4,6,7,8-HxCDF	81.2	28 - 136		
1,2,3,7,8,9-HxCDF	ND	1.19			13C-1,2,3,7,8,9-HxCDF	77.8	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	1.00			13C-1,2,3,4,6,7,8-HpCDF	72.9	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	1.19			13C-1,2,3,4,7,8,9-HpCDF	71.3	26 - 138		
OCDF	ND	2.13			13C-OCDF	61.2	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	87.3	35 - 197		
					<b>Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)</b>				
					TEQMinWHO2005Dioxin		0.00		
<b>TOTALS</b>									
Total TCDD	ND	0.857							
Total PeCDD	ND	0.764							
Total HxCDD	ND	1.18							
Total HpCDD	ND	1.46							
Total TCDF	ND	0.615							
Total PeCDF	ND	0.611							
Total HxCDF	ND	1.19							
Total HpCDF	ND	1.19							

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: 1.00 g		QC Batch: B0F0186 Date Extracted: 19-Jun-2020 9:52		Lab Sample: B0F0186-BS1 Date Analyzed: 24-Jun-20 09:50 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	189	200	94.3	67 - 158	IS 13C-2,3,7,8-TCDD	93.1	20 - 175
1,2,3,7,8-PeCDD	970	1000	97.0	70 - 142	13C-1,2,3,7,8-PeCDD	98.0	21 - 227
1,2,3,4,7,8-HxCDD	941	1000	94.1	70 - 164	13C-1,2,3,4,7,8-HxCDD	83.6	21 - 193
1,2,3,6,7,8-HxCDD	1080	1000	108	76 - 134	13C-1,2,3,6,7,8-HxCDD	83.1	25 - 163
1,2,3,7,8,9-HxCDD	1030	1000	103	64 - 162	13C-1,2,3,7,8,9-HxCDD	83.7	21 - 193
1,2,3,4,6,7,8-HpCDD	1030	1000	103	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	79.2	26 - 166
OCDD	2020	2000	101	78 - 144	13C-OCDD	70.4	13 - 199
2,3,7,8-TCDF	203	200	102	75 - 158	13C-2,3,7,8-TCDF	83.0	22 - 152
1,2,3,7,8-PeCDF	977	1000	97.7	80 - 134	13C-1,2,3,7,8-PeCDF	97.0	21 - 192
2,3,4,7,8-PeCDF	982	1000	98.2	68 - 160	13C-2,3,4,7,8-PeCDF	97.1	13 - 328
1,2,3,4,7,8-HxCDF	1020	1000	102	72 - 134	13C-1,2,3,4,7,8-HxCDF	84.1	19 - 202
1,2,3,6,7,8-HxCDF	1050	1000	105	84 - 130	13C-1,2,3,6,7,8-HxCDF	84.3	21 - 159
2,3,4,6,7,8-HxCDF	1050	1000	105	70 - 156	13C-2,3,4,6,7,8-HxCDF	83.5	22 - 176
1,2,3,7,8,9-HxCDF	1000	1000	100	78 - 130	13C-1,2,3,7,8,9-HxCDF	85.6	17 - 205
1,2,3,4,6,7,8-HpCDF	1070	1000	107	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	79.5	21 - 158
1,2,3,4,7,8,9-HpCDF	1110	1000	111	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	76.8	20 - 186
OCDF	2080	2000	104	63 - 170	13C-OCDF	69.7	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	93.2	31 - 191

LCL-UCL - Lower control limit - upper control limit

**Sample ID: PDI-087SC-B-00-02-200509** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001033-01      Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 2.54 g	QC Batch: B0F0186      Date Extracted: 19-Jun-2020 9:52
Date Collected: 09-May-2020 8:40	% Solids: 40.2	Date Analyzed : 08-Jul-20 13:17 Column: DB-225 24-Jun-20 12:11 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	1.71			IS 13C-2,3,7,8-TCDD	55.0	25 - 164	
1,2,3,7,8-PeCDD	ND	1.18			13C-1,2,3,7,8-PeCDD	72.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	2.61			13C-1,2,3,4,7,8-HxCDD	79.5	32 - 141	
1,2,3,6,7,8-HxCDD	88.1				13C-1,2,3,6,7,8-HxCDD	83.5	28 - 130	
1,2,3,7,8,9-HxCDD	35.9				13C-1,2,3,7,8,9-HxCDD	82.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	1210				13C-1,2,3,4,6,7,8-HpCDD	70.1	23 - 140	
OCDD	5880				13C-OCDD	48.0	17 - 157	
2,3,7,8-TCDF	6.47				13C-2,3,7,8-TCDF	45.5	24 - 169	
1,2,3,7,8-PeCDF	7.48			J	13C-1,2,3,7,8-PeCDF	66.5	24 - 185	
2,3,4,7,8-PeCDF	ND		2.63		13C-2,3,4,7,8-PeCDF	64.4	21 - 178	
1,2,3,4,7,8-HxCDF	12.5			J	13C-1,2,3,4,7,8-HxCDF	78.7	26 - 152	
1,2,3,6,7,8-HxCDF	5.50			J	13C-1,2,3,6,7,8-HxCDF	82.1	26 - 123	
2,3,4,6,7,8-HxCDF	3.86			J	13C-2,3,4,6,7,8-HxCDF	83.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND		1.38		13C-1,2,3,7,8,9-HxCDF	77.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	397				13C-1,2,3,4,6,7,8-HpCDF	69.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	5.50			J	13C-1,2,3,4,7,8,9-HpCDF	56.3	26 - 138	
OCDF	222				13C-OCDF	29.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	64.9	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
TEQMinWHO2005Dioxin      33.4

<b>TOTALS</b>								
Total TCDD	ND	1.71						
Total PeCDD	12.7		25.8					
Total HxCDD	670							
Total HpCDD	2190							
Total TCDF	19.3		20.4					
Total PeCDF	36.7		44.5					
Total HxCDF	158		161					
Total HpCDF	703							

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-087SC-B-02-05-200509** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001033-02      Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 21.1 g	QC Batch: B0E0232      Date Extracted: 27-May-2020 13:23
Date Collected: 09-May-2020 8:40	% Solids: 52.8	Date Analyzed : 02-Jul-20 22:29      Column: DB-225 18-Jun-20 18:30      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.142		IS 13C-2,3,7,8-TCDD	94.5	25 - 164	
1,2,3,7,8-PeCDD	ND		0.251		13C-1,2,3,7,8-PeCDD	89.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.180			13C-1,2,3,4,7,8-HxCDD	70.3	32 - 141	
1,2,3,6,7,8-HxCDD	1.11			J	13C-1,2,3,6,7,8-HxCDD	84.0	28 - 130	
1,2,3,7,8,9-HxCDD	0.447			J	13C-1,2,3,7,8,9-HxCDD	74.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	45.9				13C-1,2,3,4,6,7,8-HpCDD	72.1	23 - 140	
OCDD	804				13C-OCDD	56.3	17 - 157	
2,3,7,8-TCDF	0.444			J	13C-2,3,7,8-TCDF	93.9	24 - 169	
1,2,3,7,8-PeCDF	0.457			J	13C-1,2,3,7,8-PeCDF	86.7	24 - 185	
2,3,4,7,8-PeCDF	2.55				13C-2,3,4,7,8-PeCDF	86.3	21 - 178	
1,2,3,4,7,8-HxCDF	2.85				13C-1,2,3,4,7,8-HxCDF	75.5	26 - 152	
1,2,3,6,7,8-HxCDF	0.928			J	13C-1,2,3,6,7,8-HxCDF	86.2	26 - 123	
2,3,4,6,7,8-HxCDF	1.22			J	13C-2,3,4,6,7,8-HxCDF	79.8	28 - 136	
1,2,3,7,8,9-HxCDF	0.288			J	13C-1,2,3,7,8,9-HxCDF	78.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	19.4				13C-1,2,3,4,6,7,8-HpCDF	71.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.562			J	13C-1,2,3,4,7,8,9-HpCDF	68.9	26 - 138	
OCDF	22.1				13C-OCDF	59.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	103	35 - 197	

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

TEQMinWHO2005Dioxin      2.41

<b>TOTALS</b>			
Total TCDD	1.97	2.20	
Total PeCDD	3.60	4.68	
Total HxCDD	12.3		
Total HpCDD	118		
Total TCDF	18.4		P
Total PeCDF	36.5	36.7	P
Total HxCDF	30.6		
Total HpCDF	46.3		

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-087SC-B-05-07-200509** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001033-03      Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 19.4 g	QC Batch: B0E0232      Date Extracted: 27-May-2020 13:23
Date Collected: 09-May-2020 8:40	% Solids: 55.7	Date Analyzed : 18-Jun-20 19:16      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0904			IS 13C-2,3,7,8-TCDD	96.6	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0884			13C-1,2,3,7,8-PeCDD	89.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.126			13C-1,2,3,4,7,8-HxCDD	72.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND		0.134		13C-1,2,3,6,7,8-HxCDD	86.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.151			13C-1,2,3,7,8,9-HxCDD	83.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.272			J	13C-1,2,3,4,6,7,8-HpCDD	70.7	23 - 140	
OCDD	0.845			J	13C-OCDD	54.5	17 - 157	
2,3,7,8-TCDF	0.111			J	13C-2,3,7,8-TCDF	88.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.106			13C-1,2,3,7,8-PeCDF	87.3	24 - 185	
2,3,4,7,8-PeCDF	0.915			J	13C-2,3,4,7,8-PeCDF	87.5	21 - 178	
1,2,3,4,7,8-HxCDF	0.256			J	13C-1,2,3,4,7,8-HxCDF	75.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND		0.130		13C-1,2,3,6,7,8-HxCDF	87.0	26 - 123	
2,3,4,6,7,8-HxCDF	0.334			J	13C-2,3,4,6,7,8-HxCDF	82.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.175			13C-1,2,3,7,8,9-HxCDF	79.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.358			J	13C-1,2,3,4,6,7,8-HpCDF	74.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.177			13C-1,2,3,4,7,8,9-HpCDF	68.5	26 - 138	
OCDF	ND	0.121			13C-OCDF	60.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	106	35 - 197	

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

TEQMinWHO2005Dioxin      0.351

<b>TOTALS</b>								
Total TCDD	1.01							
Total PeCDD	1.30		2.21					
Total HxCDD	1.67		1.80					
Total HpCDD	0.659							
Total TCDF	6.28		8.76					
Total PeCDF	11.5			P				
Total HxCDF	3.86		3.99					
Total HpCDF	0.728							

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-089SC-B-00-02-200509** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001033-04      Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 25.4 g	QC Batch: B0E0232      Date Extracted: 27-May-2020 13:23
Date Collected: 09-May-2020 9:50	% Solids: 46.4	Date Analyzed : 02-Jul-20 23:01      Column: DB-225 18-Jun-20 20:03      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.608		IS 13C-2,3,7,8-TCDD	78.0	25 - 164	
1,2,3,7,8-PeCDD	0.469			J	13C-1,2,3,7,8-PeCDD	71.7	25 - 181	
1,2,3,4,7,8-HxCDD	0.751			J	13C-1,2,3,4,7,8-HxCDD	57.5	32 - 141	
1,2,3,6,7,8-HxCDD	4.23				13C-1,2,3,6,7,8-HxCDD	71.3	28 - 130	
1,2,3,7,8,9-HxCDD	1.89			J	13C-1,2,3,7,8,9-HxCDD	68.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	188				13C-1,2,3,4,6,7,8-HpCDD	55.3	23 - 140	
OCDD	2080				13C-OCDD	38.1	17 - 157	
2,3,7,8-TCDF	5.78				13C-2,3,7,8-TCDF	69.0	24 - 169	
1,2,3,7,8-PeCDF	8.96				13C-1,2,3,7,8-PeCDF	74.5	24 - 185	
2,3,4,7,8-PeCDF	4.73				13C-2,3,4,7,8-PeCDF	68.2	21 - 178	
1,2,3,4,7,8-HxCDF	19.5				13C-1,2,3,4,7,8-HxCDF	62.0	26 - 152	
1,2,3,6,7,8-HxCDF	5.61				13C-1,2,3,6,7,8-HxCDF	67.2	26 - 123	
2,3,4,6,7,8-HxCDF	2.36				13C-2,3,4,6,7,8-HxCDF	59.9	28 - 136	
1,2,3,7,8,9-HxCDF	1.69			J	13C-1,2,3,7,8,9-HxCDF	64.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	38.2				13C-1,2,3,4,6,7,8-HpCDF	56.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	4.03				13C-1,2,3,4,7,8,9-HpCDF	53.3	26 - 138	
OCDF	93.8				13C-OCDF	40.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	85.7	35 - 197	

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

TEQMinWHO2005Dioxin      9.29

<b>TOTALS</b>								
Total TCDD	5.83		6.86					
Total PeCDD	5.38		7.89					
Total HxCDD	48.4							
Total HpCDD	440							
Total TCDF	16.0		30.2	P				
Total PeCDF	38.0		50.7					
Total HxCDF	72.1							
Total HpCDF	123							

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-089SC-B-02-05-200509** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001033-05      Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 20.5 g	QC Batch: B0E0232      Date Extracted: 27-May-2020 13:23
Date Collected: 09-May-2020 9:50	% Solids: 50.7	Date Analyzed : 03-Jul-20 13:22 Column: DB-225 18-Jun-20 20:49 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.154			IS 13C-2,3,7,8-TCDD	42.7	25 - 164	
1,2,3,7,8-PeCDD	ND		0.214		13C-1,2,3,7,8-PeCDD	41.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.361			13C-1,2,3,4,7,8-HxCDD	34.5	32 - 141	
1,2,3,6,7,8-HxCDD	0.958			J	13C-1,2,3,6,7,8-HxCDD	40.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.454			13C-1,2,3,7,8,9-HxCDD	38.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	31.1				13C-1,2,3,4,6,7,8-HpCDD	31.1	23 - 140	
OCDD	311				13C-OCDD	25.1	17 - 157	
2,3,7,8-TCDF	0.868				13C-2,3,7,8-TCDF	40.9	24 - 169	
1,2,3,7,8-PeCDF	1.08			J	13C-1,2,3,7,8-PeCDF	41.8	24 - 185	
2,3,4,7,8-PeCDF	ND		0.823		13C-2,3,4,7,8-PeCDF	42.1	21 - 178	
1,2,3,4,7,8-HxCDF	1.57			J	13C-1,2,3,4,7,8-HxCDF	34.6	26 - 152	
1,2,3,6,7,8-HxCDF	0.779			J	13C-1,2,3,6,7,8-HxCDF	38.0	26 - 123	
2,3,4,6,7,8-HxCDF	0.537			J	13C-2,3,4,6,7,8-HxCDF	36.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.561			13C-1,2,3,7,8,9-HxCDF	34.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	10.8				13C-1,2,3,4,6,7,8-HpCDF	34.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.621			13C-1,2,3,4,7,8,9-HpCDF	31.5	26 - 138	
OCDF	6.28				13C-OCDF	25.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	109	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
TEQMinWHO2005Dioxin      1.02

<b>TOTALS</b>				
Total TCDD	0.672			
Total PeCDD	3.95	4.41		
Total HxCDD	12.2			
Total HpCDD	75.7			
Total TCDF	5.41	6.22		
Total PeCDF	9.27	10.1		
Total HxCDF	14.1			
Total HpCDF	22.1			

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-089SC-B-05-07-200509** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001033-06      Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 25.5 g	QC Batch: B0E0232      Date Extracted: 27-May-2020 13:23
Date Collected: 09-May-2020 9:50	% Solids: 47.3	Date Analyzed : 18-Jun-20 21:35 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0664			IS 13C-2,3,7,8-TCDD	79.7	25 - 164	
1,2,3,7,8-PeCDD	ND		0.0881		13C-1,2,3,7,8-PeCDD	77.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.166			13C-1,2,3,4,7,8-HxCDD	61.3	32 - 141	
1,2,3,6,7,8-HxCDD	0.763			J	13C-1,2,3,6,7,8-HxCDD	75.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.213			13C-1,2,3,7,8,9-HxCDD	65.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	36.7				13C-1,2,3,4,6,7,8-HpCDD	66.2	23 - 140	
OCDD	465				13C-OCDD	55.0	17 - 157	
2,3,7,8-TCDF	ND	0.0678			13C-2,3,7,8-TCDF	73.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0760			13C-1,2,3,7,8-PeCDF	76.3	24 - 185	
2,3,4,7,8-PeCDF	0.305			J	13C-2,3,4,7,8-PeCDF	79.4	21 - 178	
1,2,3,4,7,8-HxCDF	0.304			J	13C-1,2,3,4,7,8-HxCDF	65.8	26 - 152	
1,2,3,6,7,8-HxCDF	0.574			J	13C-1,2,3,6,7,8-HxCDF	73.6	26 - 123	
2,3,4,6,7,8-HxCDF	0.362			J	13C-2,3,4,6,7,8-HxCDF	71.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.170			13C-1,2,3,7,8,9-HxCDF	68.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	10.2				13C-1,2,3,4,6,7,8-HpCDF	67.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.305			13C-1,2,3,4,7,8,9-HpCDF	65.3	26 - 138	
OCDF	5.33				13C-OCDF	55.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	107	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.902

<b>TOTALS</b>								
Total TCDD	ND	0.0664						
Total PeCDD	0.448		0.894					
Total HxCDD	7.61							
Total HpCDD	83.7							
Total TCDF	2.11							
Total PeCDF	5.80							
Total HxCDF	12.2							
Total HpCDF	23.0							

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

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

## DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
TEQ	Toxic Equivalency
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

### Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	19-013-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-23
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2018017
Massachusetts Department of Environmental Protection	N/A
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	1521520
New Hampshire Environmental Accreditation Program	207718-B
New Jersey Department of Environmental Protection	190001
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-010
Pennsylvania Department of Environmental Protection	016
Texas Commission on Environmental Quality	T104704189-19-10
Vermont Department of Health	VT-4042
Virginia Department of General Services	10272
Washington Department of Ecology	C584-19
Wisconsin Department of Natural Resources	998036160

*Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.*

## NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	Method
Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans	EPA 23
Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans	EPA TO-9A

MATRIX: Biological Tissue	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	Method
2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) GC/HRMS	EPA 1613/1613B
1,4-Dioxane (1,4-Diethyleneoxide) analysis by GC/HRMS	EPA 522
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	ISO 25101 2009

MATRIX: Non-Potable Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	Method
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

**ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY**

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

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

2001033  
 1.1°C  
 3.7°C

**COC ID:** VISTA-20200509-105540  
**Sample Custodian:** CO  
**Lab:** VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected		Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
				Date	Time						
001	PDI-087SC-B-00-02-200509	N	SE	05/09/2020	8:40	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
002	PDI-087SC-B-02-05-200509	N	SE	05/09/2020	8:40	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
003	PDI-087SC-B-05-07-200509	N	SE	05/09/2020	8:40	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
004	PDI-089SC-B-00-02-200509	N	SE	05/09/2020	9:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
005	PDI-089SC-B-02-05-200509	N	SE	05/09/2020	9:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
006	PDI-089SC-B-05-07-200509	N	SE	05/09/2020	9:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C

Comment:

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

Sasha Norwood  
 Anchor QEA  
 5/11/20 @ 0830  
 William R Wright  
 VAL  
 5-12-20 09:50

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



# Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: 2001033

 TAT Std

<b>Samples Arrival:</b>	<b>Date/Time:</b> 5/12/20 09:50	<b>Initials:</b> UPW	<b>Location:</b> WR-2
			<b>Shelf/Rack:</b> NA
<b>Delivered By:</b>	<input checked="" type="radio"/> RedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac
		<input type="radio"/> GLS	<input type="radio"/> DHL
		<input type="radio"/> Hand Delivered	<input type="radio"/> Other
<b>Preservation:</b>	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
	<input type="radio"/> None		
<b>Temp °C:</b>	<u>11</u> (uncorrected)	<b>Probe used:</b> Y / <input checked="" type="radio"/> N	<b>Thermometer ID:</b> <u>IL-3</u>
<b>Temp °C:</b>	<u>11</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>of 3</u>   Trk # <u>7704 3701 0792</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 checked="" 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> 05/12/20 1151	<b>Initials:</b> KS	<b>Location:</b> WR-2
			<b>Shelf/Rack:</b> C7-2
COC Anomaly/Sample Acceptance Form completed?		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

# Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: 2001033 TAT Std

Samples Arrival:	Date/Time <u>5/12/20 09:50</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>3.7</u>	<input type="checkbox"/> (uncorrected)		Probe used: Y / <input checked="" type="checkbox"/> N		Thermometer ID: <u>TR-3</u>		
Temp °C: <u>3.7</u>	<input type="checkbox"/> (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>7704 3701 0244</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input checked="" type="checkbox"/> Vista	<input type="checkbox"/> Client	<input type="checkbox"/> Retain
	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose	<input checked="" type="checkbox"/>
Chain of Custody / Sample Documentation Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Holding Time Acceptable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Logged In:	Date/Time <u>05/12/20 1151</u>		Initials: <u>KS</u>
	Location: <u>WR-2</u>		Shelf/Rack: <u>C7-2</u>
COC Anomaly/Sample Acceptance Form completed?			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

Comments:

# CoC/Label Reconciliation Report WO# 2001033

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2001033-01	A PDI-087SC-B-00-02-200509	C1 <input checked="" type="checkbox"/>	09-May-20 08:40 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2001033-02	A PDI-087SC-B-02-05-200509	C1 <input checked="" type="checkbox"/>	09-May-20 08:40 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2001033-03	A PDI-087SC-B-05-07-200509	C1 <input checked="" type="checkbox"/>	09-May-20 08:40 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2001033-04	A PDI-089SC-B-00-02-200509	C2 <input checked="" type="checkbox"/>	09-May-20 09:50 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2001033-05	A PDI-089SC-B-02-05-200509	C2 <input checked="" type="checkbox"/>	09-May-20 09:50 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2001033-06	A PDI-089SC-B-05-07-200509	C2 <input checked="" type="checkbox"/>	09-May-20 09:50 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	

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

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

Comments:

Verified by/Date: KS 05/13/20

## **EXTRACTION INFORMATION**

Process Sheet

Workorder: 2001033

Prep Expiration: 2021-05-09  
Client: Anchor QEA, LLC

Workorder Due: 10-Jun-20 00:00

TAT: 29

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

Prep Batch: BOED232

Prep Data Entered: YLL 06/09/20  
Date and Initials

Initial Sequence: SDFO056

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2001033-01	<input checked="" type="checkbox"/>	PDI-087SC-B-00-02-200509	12-May-20 09:50	WR-2 G-2	
2001033-02	<input checked="" type="checkbox"/>	PDI-087SC-B-02-05-200509	12-May-20 09:50	WR-2 G-2	
2001033-03	<input checked="" type="checkbox"/>	PDI-087SC-B-05-07-200509	12-May-20 09:50	WR-2 G-2	
2001033-04	<input checked="" type="checkbox"/>	PDI-089SC-B-00-02-200509	12-May-20 09:50	WR-2 G-2	
2001033-05	<input checked="" type="checkbox"/>	PDI-089SC-B-02-05-200509	12-May-20 09:50	WR-2 G-2	
2001033-06	<input checked="" type="checkbox"/>	PDI-089SC-B-05-07-200509	12-May-20 09:50	WR-2 G-2	

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

Pre-Prep Check Out: CHT 05/15/20  
Pre-Prep Check In: CHT 05/15/20

Prep Check Out: YLL 05/17/20  
Prep Check In: YLL 05/17/20

Prep Reconciled Initials/Date: CHT 05/15/20  
Spike Reconciled Initials/Date: YLL 05/17/20  
VialBoxID: Physics Lab

PREPARATION BENCH SHEET

Matrix: Solid

Method: 1613 Full List

B0E0232

Prepared using: HRMS - Soxhlet

Chemist: 

Prep Date/Time: 27-May-20 13:23

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisol CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B0E0232-BLK1	N/A	(10.00)	2x 05/27/20	EM AZ 06/08/20	N/A	EM 06/09/20	EM 06/09/20	EM 06/09/20	EM AZ 06/09/20
<input type="checkbox"/>	B0E0232-BS1	↓	(10.00)	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	<del>2001033-01</del>	<del>24.86</del>	<del>27.58</del>	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2001033-02	18.95	21.10	↓	↓	N/A	EM 06/09/20 YELLOW/BLACK	EM 06/09/20	EM 06/09/20	EM AZ 06/09/20
<input type="checkbox"/>	2001033-03	17.95	19.38	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2001033-04	21.57	25.42	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2001033-05	19.72	20.54	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2001033-06	21.14	25.50	↓	↓	↓	↓	↓	↓	↓

Ⓐ rotovapped and exchanged 2x w/ hexane. sample became solid & caked on sides of roundbottom EM 06/09/20

IS Name <u>2</u>	NS Name <u>1</u>	CRS Name <u>16</u>	RS Name <u>16</u>	Cycle Time	APP: SEFUN SOX <u>SD3</u>	Check Out: <u>05/27/20</u>
PCDD/F <u>19L 2301, 10μL</u>	PCDD/F <u>18F1913, 10μL</u>	PCDD/F <u>20E0701, 10μL</u>	PCDD/F <u>20E0702, 10μL</u>	Start Date/Time <u>05/27/20</u> <u>15:25</u>	SOLV: <u>Hex Tol.</u>	Chemist/Date: <u>05/27/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>05/28/20</u> <u>0725</u>	Other <u>N/A</u>	Check In: <u>05/27/20</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>20μL</u>	Balance ID: <u>HRMS-10</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

\* 05/27/20  
\* 05/27/20

Analyst: CHT	Test Code: %Moist/%Solids	Data Entry Verified by: (Initial and Date) <u>AZ 05/20/20</u>
Analyte: Dried at 110°C +/- 5°C	Units: %	
Oven ID: 2		

Inst HRMS 9 Date/Time IN: 05/15/20 0945 Date/Time OUT: 05/18/20 0957

Particle Size	SampleID	SampType	Initial and Date:		G		Dry Sample Weight (g)	%Solids RawVal	K				Sample Homogenized*	
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	CHT 05/15/20	CHT 05/18/20			Visual Inspection	Cl-	pH Before	pH After		Acid Added
	2001033-01	A	Sample	1.3000	5.8000	3.1100	1.8100	40.22	MUD	NA	NA	NA	NA	Y
	2001033-02	A	Sample	1.2900	5.8200	3.6800	2.3900	52.76	MUD	NA	NA	NA	NA	Y
	2001033-03	A	Sample	1.3000	6.4700	4.1800	2.8800	55.71	MUD	NA	NA	NA	NA	Y
	2001033-04	A	Sample	1.3100	6.1200	3.5400	2.2300	46.36	MUD	NA	NA	NA	NA	Y
	2001033-05	A	Sample	1.2900	4.8400	3.0900	1.8000	50.70	MUD	NA	NA	NA	NA	Y
	2001033-06	A	Sample	1.2800	6.1000	3.5600	2.2800	47.30	MUD	NA	NA	NA	NA	Y
	2001034-01	A	Sample	1.3100	6.1500	3.6800	2.3700	48.97	MUD	NA	NA	NA	NA	Y
	2001034-02	A	Sample	1.2900	5.8000	3.8400	2.5500	56.54	MUD	NA	NA	NA	NA	Y
	2001034-03	A	Sample	1.3000	6.1700	4.1800	2.8800	59.14	MUD	NA	NA	NA	NA	Y

\*Sample homogenized in sample container unless otherwise noted.

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

Inst BRAAS-9

Date/Time IN: 05/11/20 Date/Time OUT: 05/18/20  
0945 0954

\* CH 05/18/20

Particle Size	SampID	SampType	Initial and Date:		G		Dry Sample Weight (g)	%Solids RawVal	K				Sample Homogenized*
			CH 05/15/20	CH 05/16/20	Visual Inspection	Cl-			pH Before	pH After	Acid Added		
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)								
	2001033-01	Sample	1.30	5.80	3.11			Mud					✓
	2001033-02	Sample	1.29	5.82	3.68								✓
	2001033-03	Sample	1.30	6.47	4.18								✓
	2001033-04	Sample	1.31	6.12	3.84 3.54*								✓
	2001033-05	Sample	1.29	4.84	3.09								✓
	2001033-06	Sample	1.28	6.10	3.56								✓
	2001034-01	Sample	1.31	6.15	3.68								✓
	2001034-02	Sample	1.29	5.80	3.84								✓
	2001034-03	Sample	1.30	6.17	4.18								✓

\*Sample homogenized in sample container unless otherwise noted.



Batch: B0E0232

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
<del>2001033-01</del>	<del>27.58</del>	<del>40.22222</del>	<del>11.0933</del>	<del>20</del>	<del>27-May-20 13:23</del>	<del>MSD</del>			<del>Sediment</del>	<del>1613 Full List</del>
2001033-02	21.1 ✓	52.75938	11.1322	20 ✓	27-May-20 13:23	MSD			Sediment	1613 Full List
2001033-03	19.38 ✓	55.70599	10.7958	20	27-May-20 13:23	MSD			Sediment	1613 Full List
2001033-04	25.42 ✓	46.36175	11.7852	20	27-May-20 13:23	MSD			Sediment	1613 Full List
2001033-05	20.54 ✓	50.70422	10.4146	20	27-May-20 13:23	MSD			Sediment	1613 Full List
2001033-06	25.5 ✓	47.30291	12.0622	20	27-May-20 13:23	MSD			Sediment	1613 Full List
B0E0232-BLK1	10 ✓	100	(10.00)	20	27-May-20 13:23	MSD				QC
B0E0232-BS1	10 ✓	100	(10.00)	20	27-May-20 13:23	MSD	18F1913 ✓	10 ✓		QC

\* EMM 06/09/20

All bolded data on report verified against written benchsheet by (initial/date) EMM 06/09/20

Process Sheet  
 Workorder: 2001033

**RX**  
 C7 06/19/20  
 Workorder Due: 10-Jun-20 00:00

Prep Expiration: 2021-05-09  
 Client: Anchor QEA, LLC

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

TAT: 29  
 BOFO186  
 Prep Batch: ~~DF0186\*~~  
 Prep Data Entered: EM 06/21/20  
 Date and Initials

Initial Sequence: \_\_\_\_\_

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2001033-01	<input checked="" type="checkbox"/>	PDI-087SC-B-00-02-200509	12-May-20 09:50	WR-1	Cart
<del>2001033-02</del>	<del><input type="checkbox"/></del>	<del>PDI-087SC-B-02-03-200509</del>	<del>12-May-20 09:50</del>	<del>WR-1</del>	<del>Cart</del>
2001033-03	<input type="checkbox"/>	PDI-087SC-B-05-07-200509	12-May-20 09:50	WR-1	Cart
2001033-04	<input type="checkbox"/>	PDI-089SC-B-00-02-200509	12-May-20 09:50	WR-1	Cart
2001033-05	<input type="checkbox"/>	PDI-089SC-B-02-05-200509	12-May-20 09:50	WR-1	Cart
<del>2001033-06</del>	<del><input type="checkbox"/></del>	<del>PDI-089SC-B-05-07-200509</del>	<del>12-May-20 09:50</del>	<del>WR-1</del>	<del>Cart</del>

1g extraction

\*DF06/19/20

WO Comments: Dioxin - 10g (dry weight)

~~Complete required per batch of 20 samples~~

Pre-Prep Check Out: MT  
 Pre-Prep Check In: MS

Prep Check Out: DF 06/19/20  
 Prep Check In: DF 06/19/20

Prep Reconciled Initials/Date: DF 06/19/20  
 Spike Reconciled Initials/Date: RN 06/19/20  
 VialBoxID: ACE

Batch: B0F0186

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2001033-01RE1	2.54 ✓	40.22222	1.0216	20 ✓	19-Jun-20 09:52	RN ✓			Sediment	1613 Full List
2001139-02	1.57 ✓	65.26773	1.0247	20	19-Jun-20 09:52	RN			Soil	1613 Full List
B0F0186-BLK1	1 ✓	100	(1.00)	20	19-Jun-20 09:52	RN				QC
B0F0186-BS1	1 ✓	100	(1.00)	20	19-Jun-20 09:52	RN	18F1913 ✓	10 ✓		QC
B0F0186-DUP1	1.55 ✓	65.26773	1.01164982	20 ✓	19-Jun-20 09:52	RN				QC

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

EM 06/21/20

Printed: 6/21/2020 4:07:53PM  
Page 1 of 1

PREPARATION BENCH SHEET

Matrix: Solid

B0F0186

Chemist: DF

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 19-Jun-20 09:52

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
	B0F0186-BLK1	N/A	(1.00)	DF PR 06/19/20	EM AZ 06/21/20	EM 06/21/20	EM 06/21/20	EM 06/21/20	EM 06/21/20	EM AZ 06/21/20
	B0F0186-BS1	N/A	(1.00)	↓	↓	↓	↓	↓	↓	↓
	B0F0186-DUP1 2001139-02	1.53	1.55	↓	↓	↓	yellow/black	↓	↓	↓
	2001033-01RE1 (A)	2.49	2.54	↓	↓	N/A	↓	↓	↓	↓
	2001139-02	1.53	1.57	↓	↓	EM 06/21/20	↓	↓	↓	↓

(A) precipitate formed on sides and bottom of roundbottom after exchanging 2x with hexane EM 06/21/20

IS: 19L2301, 10mL (V)	Cycle Time	APP: SEFUN (SOX) (SDS)	Check Out: DF 06/19/20	Soxhlet Siphoned Chemist/Date: DF 06/19/20	Notes:
NS: 18F1915, 10mL (comb)	Start Date/Time: 06/19/20	SOLV: Toluene	Check In: DF 06/19/20	Vial Transfer Chemist/Date: EM 06/21/20	
PS/CRS: 20E0701, 10mL (V)	1509	Other: NA	Balance ID: HRMS-8		
RS: 20E0702, 10mL (V)	Stop Date/Time: 06/24/20 07:11	Final Volume(s): 20mL C14			
Diox/F PCB PAH PEST PBDE HCB					

- 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
  - 7 = Soxhlet approached dryness



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

Inst **HPNS-4**  
 CHT 06/06/20

Date/Time IN: 06/07/20 09:40am Date/Time OUT: 06/08/20 13:49

B		C	D	E		G	H	I	K				L	M	N	O	P	
Particle Size	SampleID	Sample	Initial and Date: <b>SH 06/07/20</b>		CHT 06/08/20		Dry Sample Weight (g)	%Solids RawVal	SH 06/07/20				Cl-	pH Before	pH After	Acid Added	Sample Homogenized*	
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Visual Inspection												
	2001139-01	Sample																
	2001139-02	Sample	1.29	8.20	5.80				Mud								X	
	2001139-03	Sample	1.29	7.56	5.58				Clay								X	
	2001139-04	Sample	1.30	7.23	5.39				Clay								X	
	2001139-05	Sample	1.31	8.15	6.41				Clay								X	
	2001139-06	Sample	1.31	7.40	5.79				Clay								X	
	2001139-07	Sample	1.28	7.53	5.84				Clay								X	
	2001139-08	Sample	1.30	7.99	6.07				Clay								X	
	2001139-09	Sample	1.32	9.61	6.65				Clay								X	
	2001139-10	Sample	1.30	8.80	6.08				Clay								X	
	2001139-11	Sample	1.31	8.10	5.80				Clay								X	
	2001139-12	Sample	1.32	7.76	5.44				Clay								X	
	2001139-13	Sample	1.30	7.63	5.92				Clay								X	
	2001139-14	Sample	1.29	8.38	6.63				Clay								X	
	2001139-15	Sample	1.30	8.17	5.68				Clay								X	
	2001139-16	Sample	1.31	9.25	6.56				Clay								X	
	2001139-17	Sample	1.31	8.16	5.94				Clay								X	
	2001139-18	Sample	1.30	7.46	5.48				Clay								X	
	2001139-19	Sample	1.31	7.76	5.88													

\*Sample homogenized in sample container unless otherwise noted.

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-5.qld

Last Altered: Friday, June 19, 2020 07:36:47 Pacific Daylight Time

Printed: Friday, June 19, 2020 08:37:09 Pacific Daylight Time

*GRB 06/19/2020*

*C707/10/2020*

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: 200618R1\_5, Date: 18-Jun-2020, Time: 16:12:01, ID: B0E0232-BLK1 Method Blank 10, Description: Method Blank

Peak	RA	My	RRF	Area	Conc	RF	RF	RF	RF	RF	RF	RF	
1	2,3,7,8-TCDD		NO	0.888	10.000	26.515	1.001					0.131	
2	1,2,3,7,8-PeCDD		NO	0.908	10.000	31.473	1.001					0.0985	
3	1,2,3,4,7,8-HxCDD		NO	1.03	10.000	34.835	1.000					0.227	
4	1,2,3,6,7,8-HxCDD		NO	0.892	10.000	34.931	1.000					0.225	
5	1,2,3,7,8,9-HxCDD		NO	0.887	10.000	35.219	1.000					0.285	
6	1,2,3,4,6,7,8-HpCDD		NO	0.864	10.000	38.767	1.000					0.264	
7	OCDD		NO	0.914	10.000	41.737	1.000					0.168	
8	2,3,7,8-TCDF		NO	0.751	10.000	25.611	1.001					0.180	
9	1,2,3,7,8-PeCDF		NO	0.893	10.000	30.190	1.001					0.0736	
10	2,3,4,7,8-PeCDF		NO	0.935	10.000	31.176	1.001					0.0667	
11	1,2,3,4,7,8-HxCDF		NO	0.884	10.000	33.952	1.000					0.102	
12	1,2,3,6,7,8-HxCDF		NO	0.889	10.000	34.079	1.000					0.0928	
13	2,3,4,6,7,8-HxCDF		NO	0.934	10.000	34.700	1.001					0.109	
14	1,2,3,7,8,9-HxCDF		NO	0.871	10.000	35.571	1.000					0.160	
15	1,2,3,4,6,7,8-HpCDF		NO	0.873	10.000	37.387	1.001					0.311	
16	1,2,3,4,7,8,9-HpCDF		NO	1.01	10.000	39.298	1.000					0.358	
17	OCDF		NO	0.806	10.000	41.929	1.000					0.148	
18	13C-2,3,7,8-TCDD	8.99e5	0.80	NO	1.16	10.000	26.507	26.48	1.026	1.026	195.35	97.7	0.277
19	13C-1,2,3,7,8-PeCDD	6.22e5	0.64	NO	0.849	10.000	31.692	31.45	1.227	1.218	184.06	92.0	0.541
20	13C-1,2,3,4,7,8-HxCDD	4.17e5	1.32	NO	0.779	10.000	34.830	34.83	1.014	1.014	155.68	77.8	0.539
21	13C-1,2,3,6,7,8-HxCDD	6.44e5	1.27	NO	1.02	10.000	34.943	34.93	1.017	1.017	184.25	92.1	0.413
22	13C-1,2,3,7,8,9-HxCDD	5.58e5	1.27	NO	0.903	10.000	35.215	35.21	1.025	1.025	179.81	89.9	0.465
23	13C-1,2,3,4,6,7,8-HpCDD	3.44e5	1.04	NO	0.689	10.000	38.739	38.76	1.128	1.128	145.39	72.7	0.628
24	13C-OCDD	5.28e5	0.91	NO	0.652	10.000	41.761	41.74	1.216	1.215	235.65	58.9	0.929
25	13C-2,3,7,8-TCDF	1.22e6	0.79	NO	1.06	10.000	25.549	25.59	0.989	0.991	178.64	89.3	0.338
26	13C-1,2,3,7,8-PeCDF	1.00e6	1.50	NO	0.838	10.000	30.076	30.17	1.165	1.168	185.68	92.8	0.872
27	13C-2,3,4,7,8-PeCDF	9.56e5	1.61	NO	0.817	10.000	31.029	31.15	1.202	1.206	182.12	91.1	0.895
28	13C-1,2,3,4,7,8-HxCDF	5.61e5	0.49	NO	1.01	10.000	33.961	33.95	0.989	0.988	162.05	81.0	1.07
29	13C-1,2,3,6,7,8-HxCDF	7.19e5	0.50	NO	1.17	10.000	34.085	34.07	0.992	0.992	179.20	89.6	0.924
30	13C-2,3,4,6,7,8-HxCDF	6.03e5	0.52	NO	1.02	10.000	34.658	34.67	1.009	1.009	171.66	85.8	1.06
31	13C-1,2,3,7,8,9-HpCDF	4.97e5	0.49	NO	0.860	10.000	35.558	35.57	1.035	1.036	168.32	84.2	1.25



Dataset: U:\VG12.PRO\Results\200618R1\200618R1-5.qld

Last Altered: Friday, June 19, 2020 07:36:47 Pacific Daylight Time

Printed: Friday, June 19, 2020 08:37:09 Pacific Daylight Time

Name: 200618R1\_5, Date: 18-Jun-2020, Time: 16:12:01, ID: B0E0232-BLK1 Method Blank 10, Description: Method Blank

32	13C-1,2,3,4,6,7,8-HpCDF	4.12e5	0.43	NO	0.774	10.000	37.306	37.35	1.086	1.087	154.81	77.4	0.836
33	13C-1,2,3,4,7,8,9-HpCDF	2.69e5	0.42	NO	0.521	10.000	39.336	39.30	1.145	1.144	150.20	75.1	1.24
34	13C-OCDF	6.43e5	0.86	NO	0.746	10.000	41.933	41.93	1.221	1.221	250.92	62.7	0.663
35	37Cl-2,3,7,8-TCDD	3.66e5			1.04	10.000	26.538	26.50	1.028	1.026	88.821	111	0.0753
36	13C-1,2,3,4-TCDD	7.96e5	0.80	NO	1.00	10.000	25.890	25.83	1.000	1.000	200.00	100	0.320
37	13C-1,2,3,4-TCDF	1.29e6	0.79	NO	1.00	10.000	24.360	24.13	1.000	1.000	200.00	100	0.358
38	13C-1,2,3,4,6,9-HxCDF	6.87e5	0.51	NO	1.00	10.000	34.420	34.35	1.000	1.000	200.00	100	1.08
39	Total Tetra-Dioxins				0.888	10.000	24.620		0.000				0.0993
40	Total Penta-Dioxins				0.908	10.000	29.960		0.000				0.0592
41	Total Hexa-Dioxins				0.892	10.000	33.635		0.000				0.111
42	Total Hepta-Dioxins				0.864	10.000	37.640		0.000				0.183
43	Total Tetra-Furans				0.751	10.000	23.610		0.000				0.151
44	1st Func. Penta-Furans				0.893	10.000	27.580		0.000				0.0127
45	Total Penta-Furans				0.893	10.000	29.275		0.000				0.0347
46	Total Hexa-Furans				0.934	10.000	33.555		0.000				0.0540
47	Total Hepta-Furans				0.873	10.000	37.835		0.000				0.276

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-5.qld

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

Name: 200618R1\_5, Date: 18-Jun-2020, Time: 16:12:01, ID: B0E0232-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt	Resp	Conc	EMPO	OL
------	----	-----------	-----------	---------	---------	----	----	------	------	------	----

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt	Resp	Conc	EMPO	OL
------	----	-----------	-----------	---------	---------	----	----	------	------	------	----

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt	Resp	Conc	EMPO	OL
------	----	-----------	-----------	---------	---------	----	----	------	------	------	----

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt	Resp	Conc	EMPO	OL
------	----	-----------	-----------	---------	---------	----	----	------	------	------	----

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt	Resp	Conc	EMPO	OL
------	----	-----------	-----------	---------	---------	----	----	------	------	------	----

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt	Resp	Conc	EMPO	OL
------	----	-----------	-----------	---------	---------	----	----	------	------	------	----

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-5.qld

Last Altered: Friday, June 19, 2020 07:36:47 Pacific Daylight Time

Printed: Friday, June 19, 2020 08:37:09 Pacific Daylight Time

Name: 200618R1\_5, Date: 18-Jun-2020, Time: 16:12:01, ID: B0E0232-BLK1 Method Blank 10, Description: Method Blank

**Penta-Furans**

Name	m1	m2	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Mass	Conc	Unit

**Hexa-Furans**

Name	m1	m2	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Mass	Conc	Unit

**Hepta-Furans**

Name	m1	m2	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Mass	Conc	Unit

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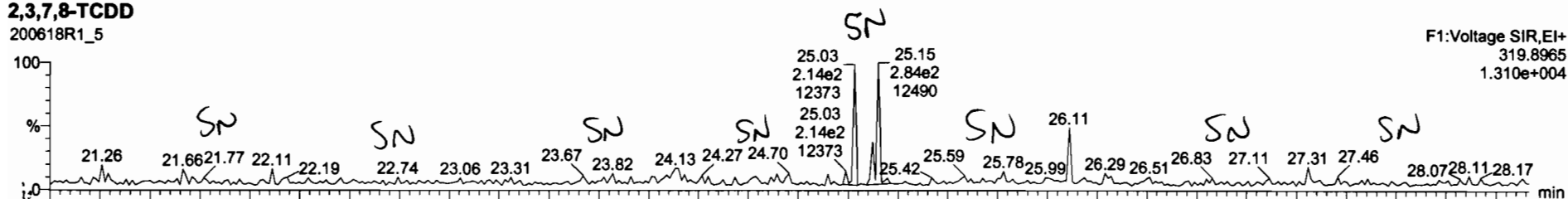
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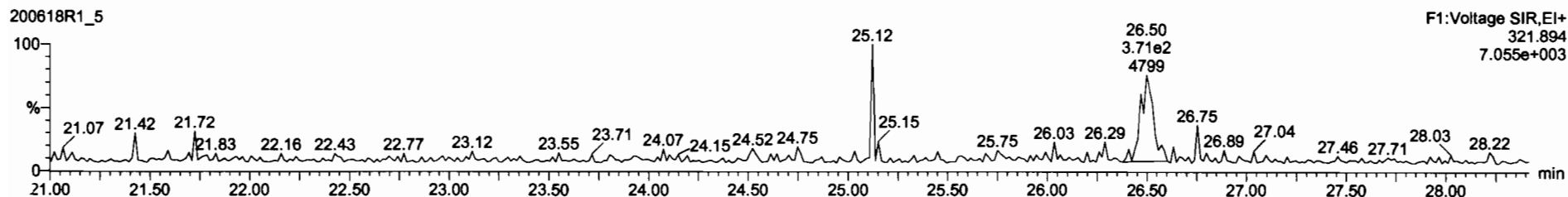
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**2,3,7,8-TCDD**

200618R1\_5

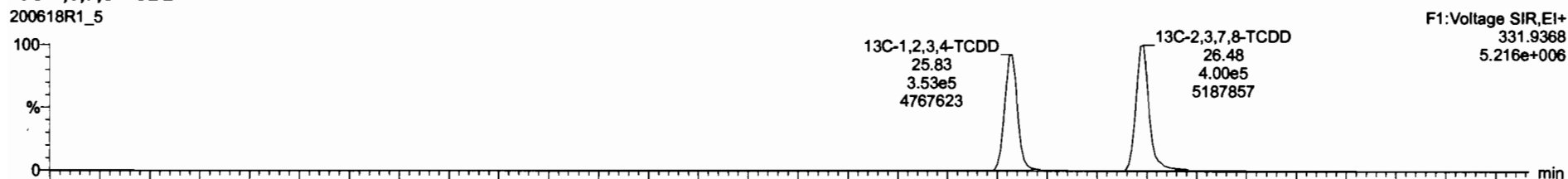


200618R1\_5

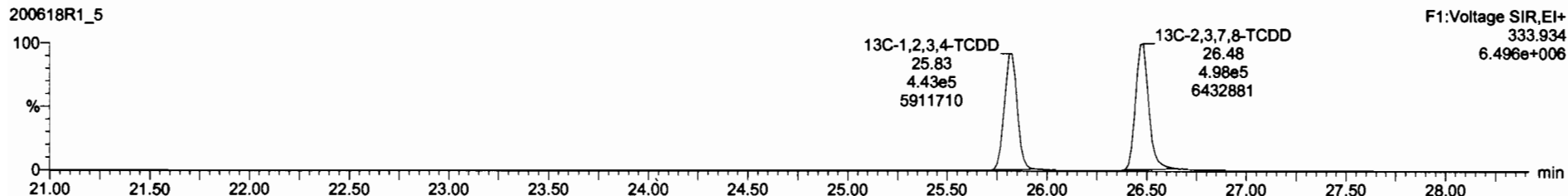


**13C-2,3,7,8-TCDD**

200618R1\_5



200618R1\_5



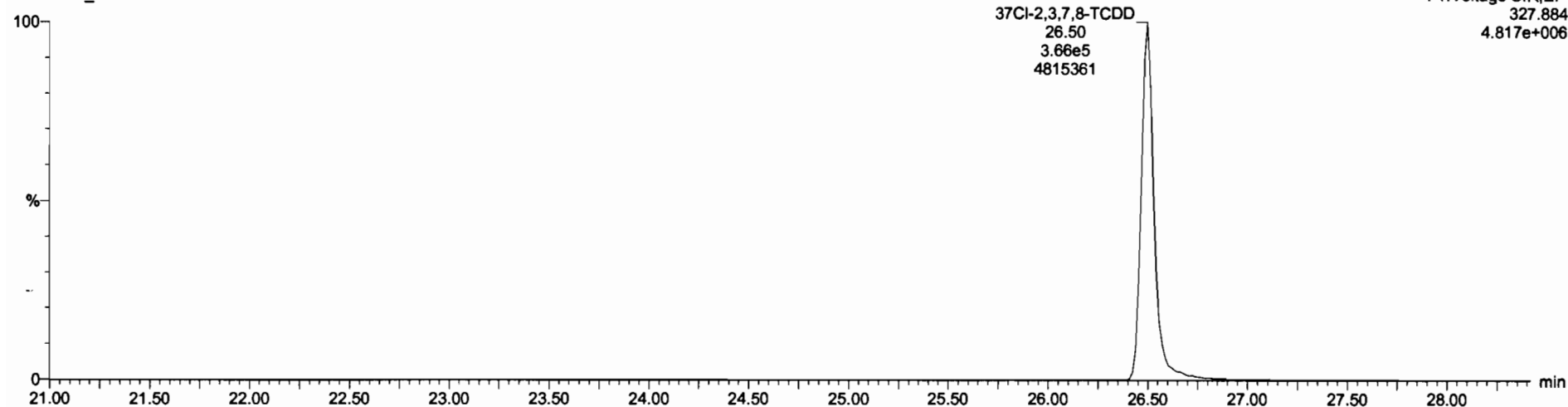
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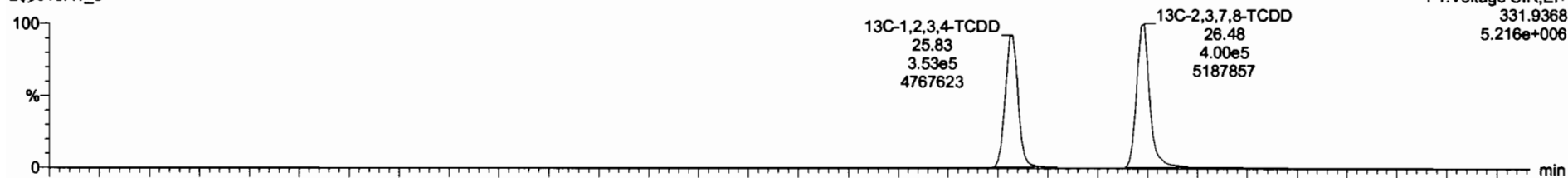
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200618R1\_5

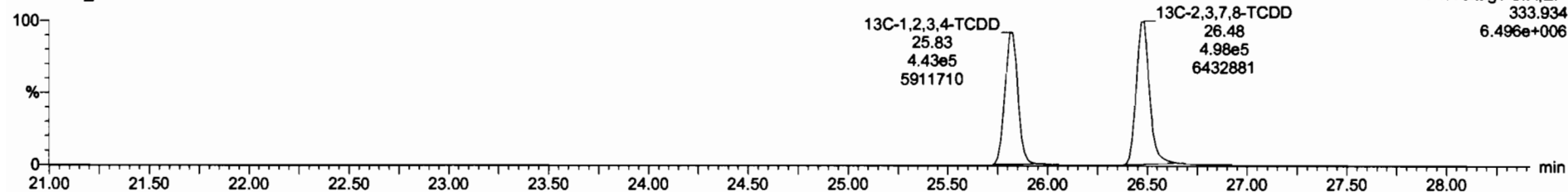


**13C-1,2,3,4-TCDD**

200618R1\_5



200618R1\_5



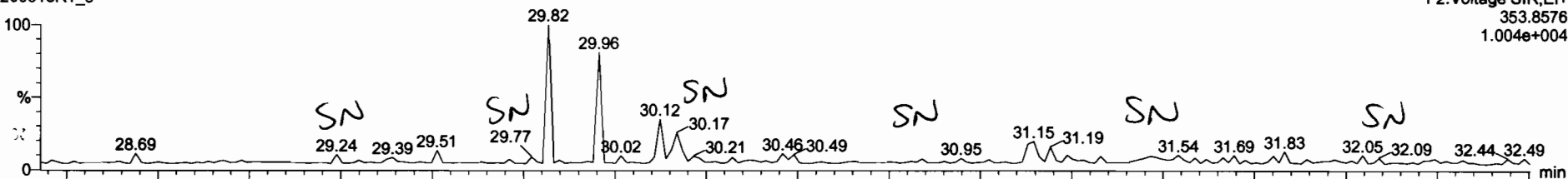
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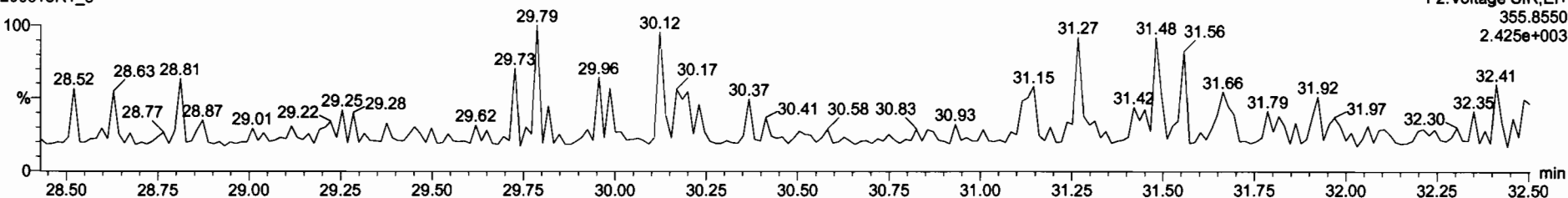
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1,2,3,7,8-PeCDD

200618R1\_5

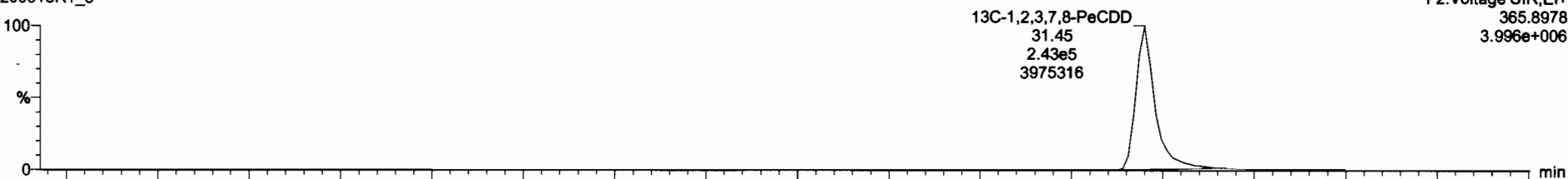


200618R1\_5

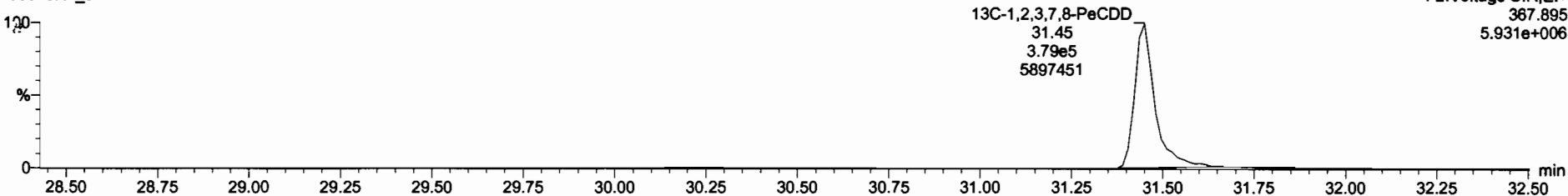


13C-1,2,3,7,8-PeCDD

200618R1\_5



200618R1\_5



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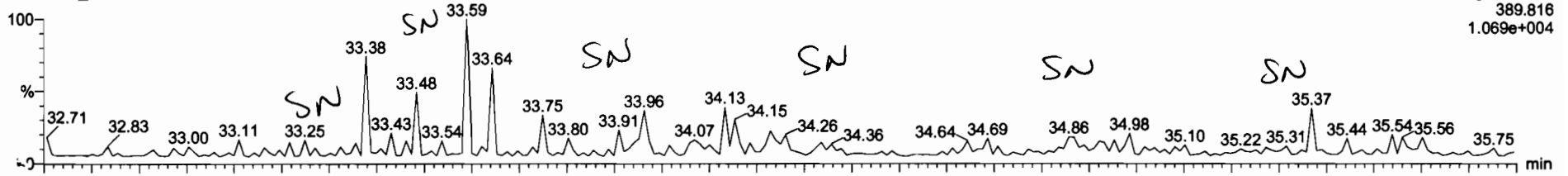
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Name: 200618R1\_5, Date: 18-Jun-2020, Time: 16:12:01, ID: B0E0232-BLK1 Method Blank 10, Description: Method Blank

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

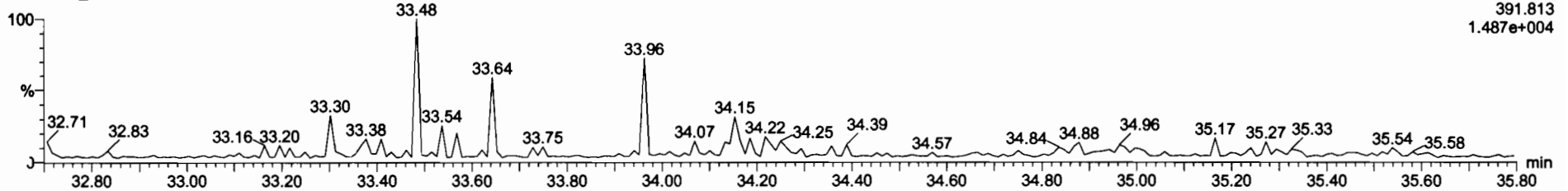
200618R1\_5

F3:Voltage SIR,EI+  
389.816  
1.069e+004



200618R1\_5

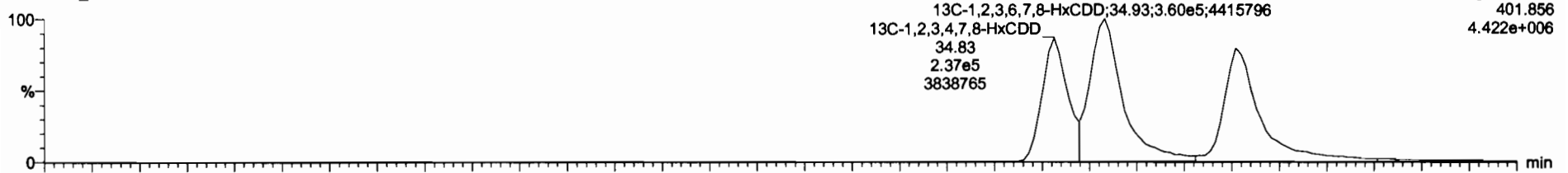
F3:Voltage SIR,EI+  
391.813  
1.487e+004



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

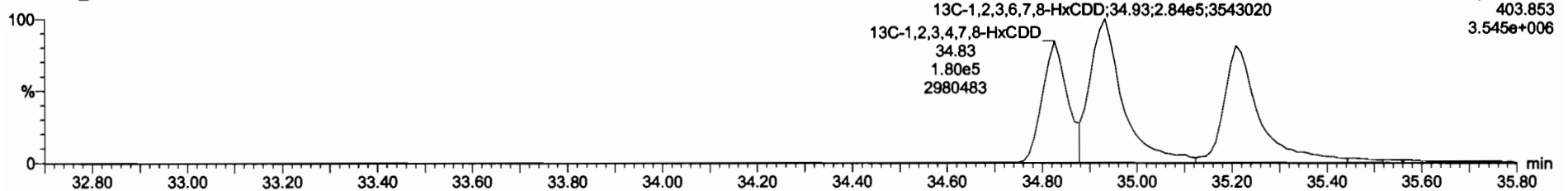
200618R1\_5

F3:Voltage SIR,EI+  
401.856  
4.422e+006



200618R1\_5

F3:Voltage SIR,EI+  
403.853  
3.545e+006



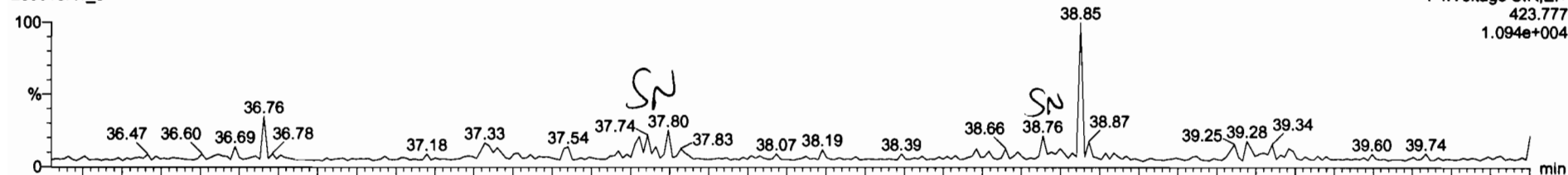
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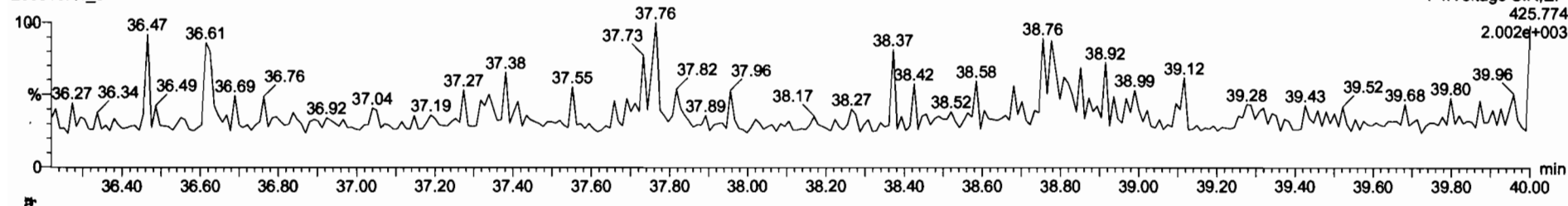
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1,2,3,4,6,7,8-HpCDD

200618R1\_5



200618R1\_5

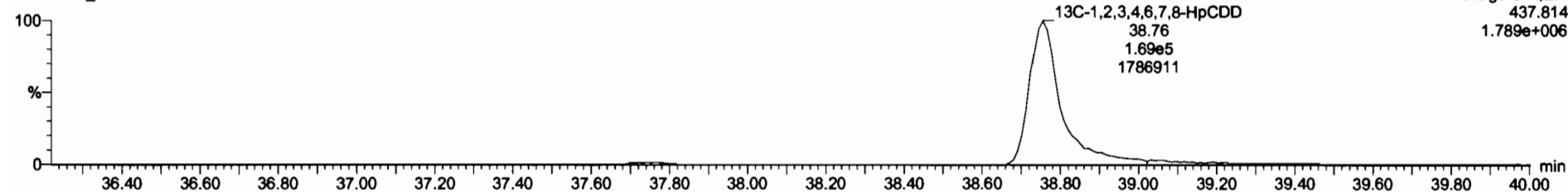


13C-1,2,3,4,6,7,8-HpCDD

200618R1\_5



200618R1\_5



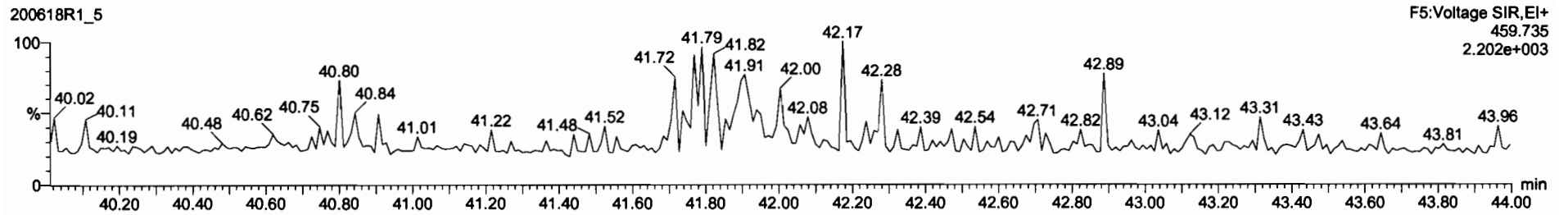
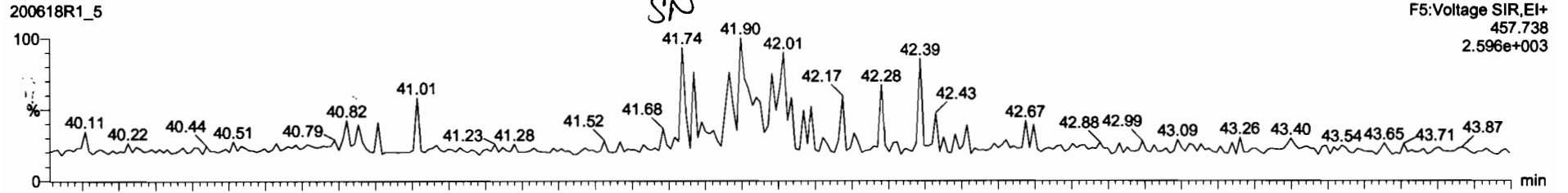


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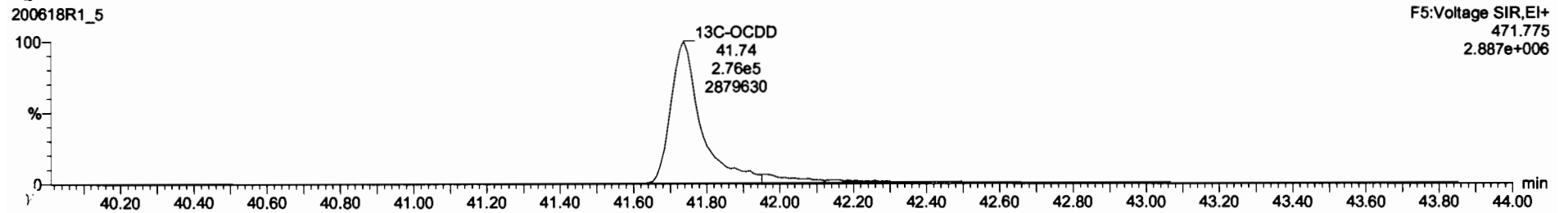
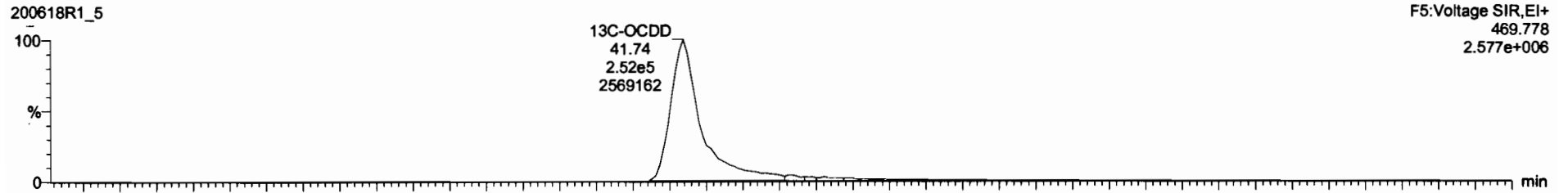
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**OCDD**



**13C-OCDD**

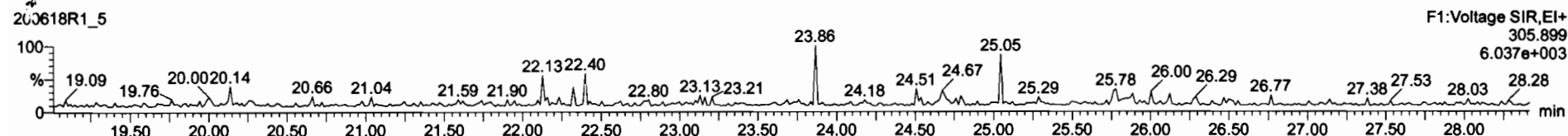
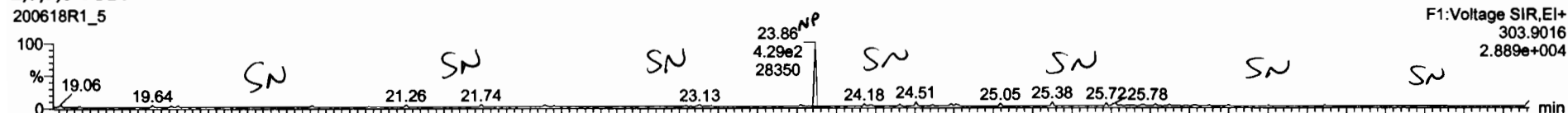


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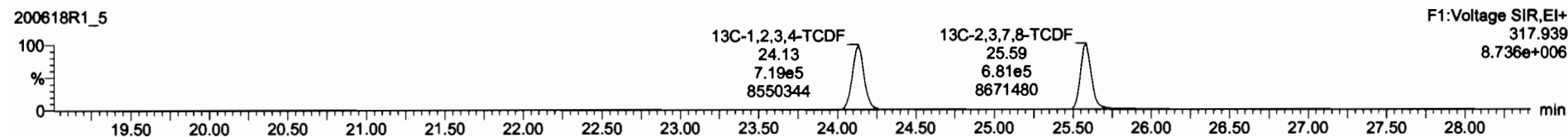
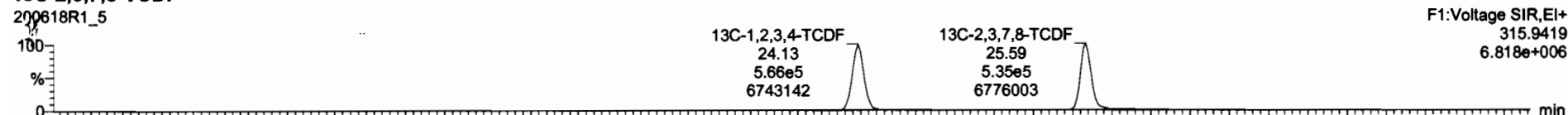
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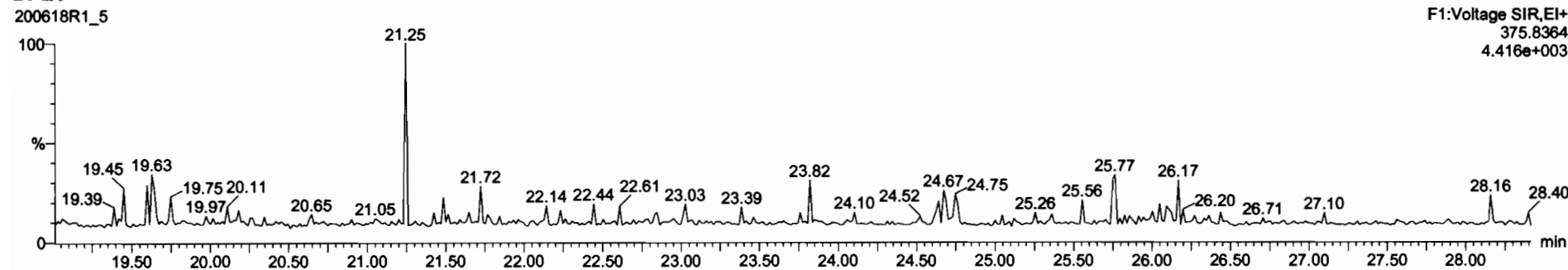
**2,3,7,8-TCDF**



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



**DPE1**



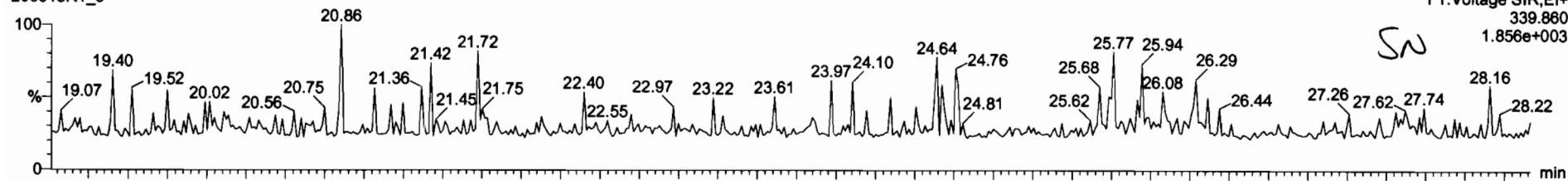
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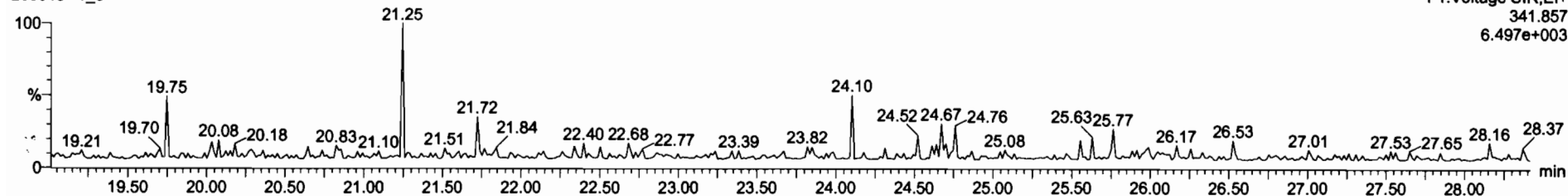
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1st Func. Penta-Furans

200618R1\_5

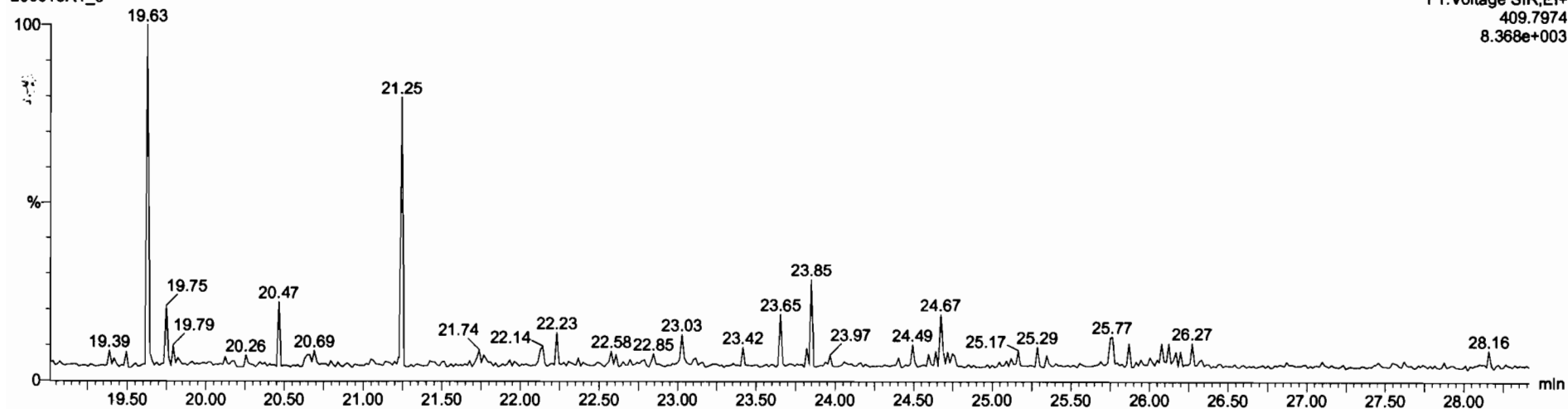


200618R1\_5



DPE6

200618R1\_5

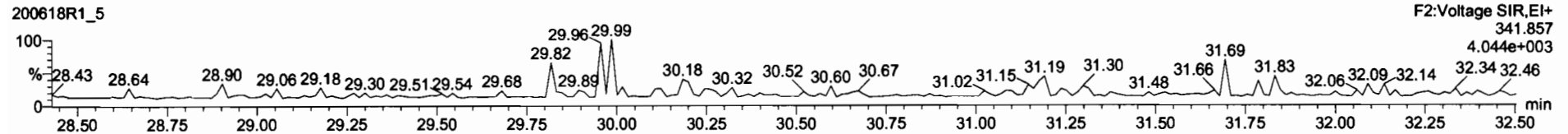
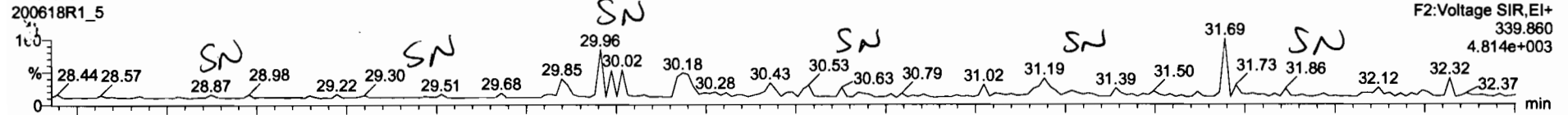


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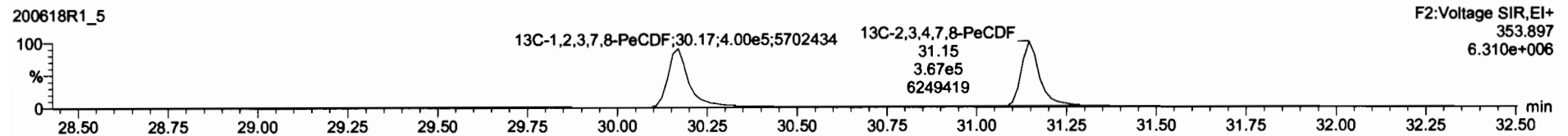
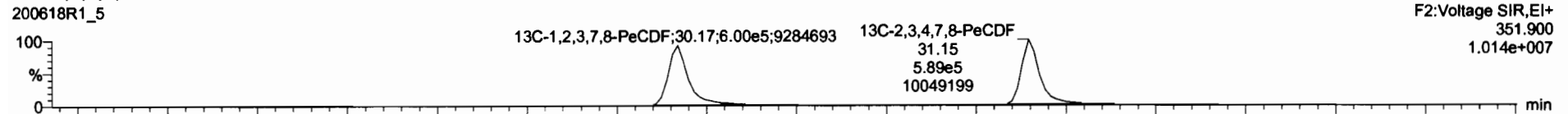
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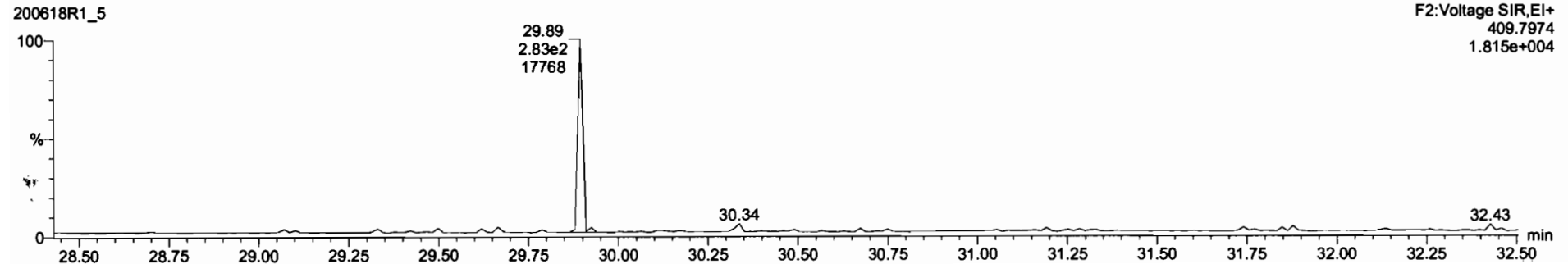
**1,2,3,7,8-PeCDF**



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



**D7E2**

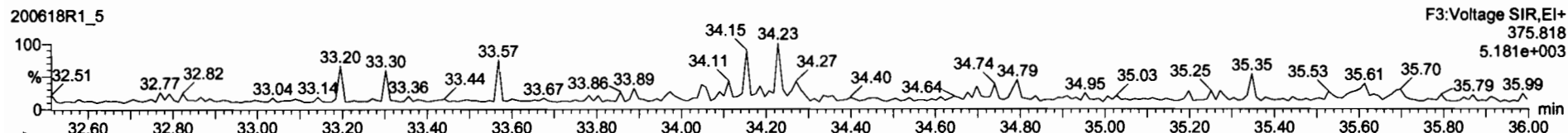
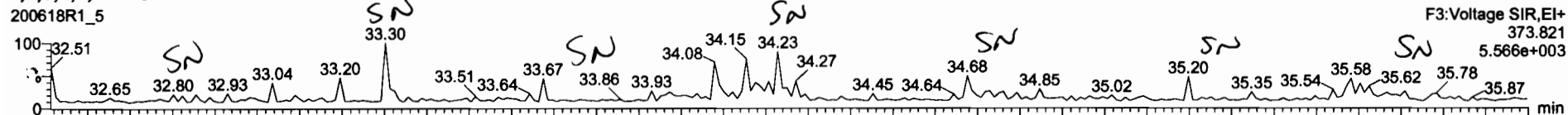


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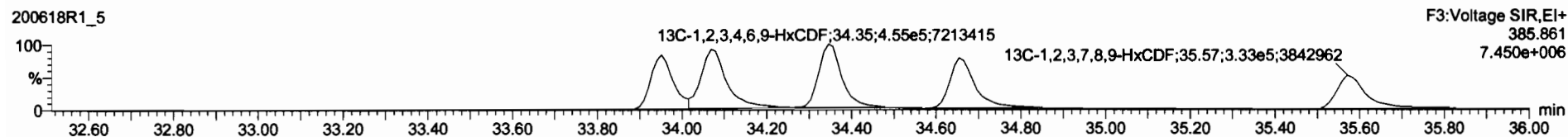
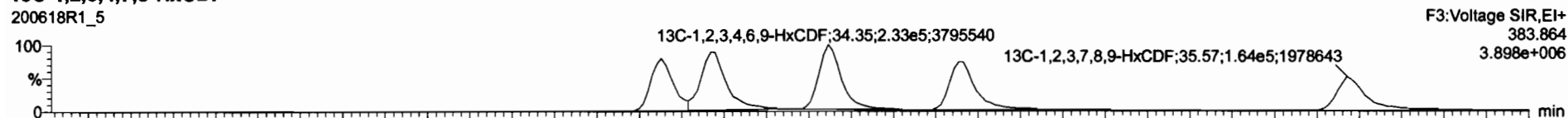
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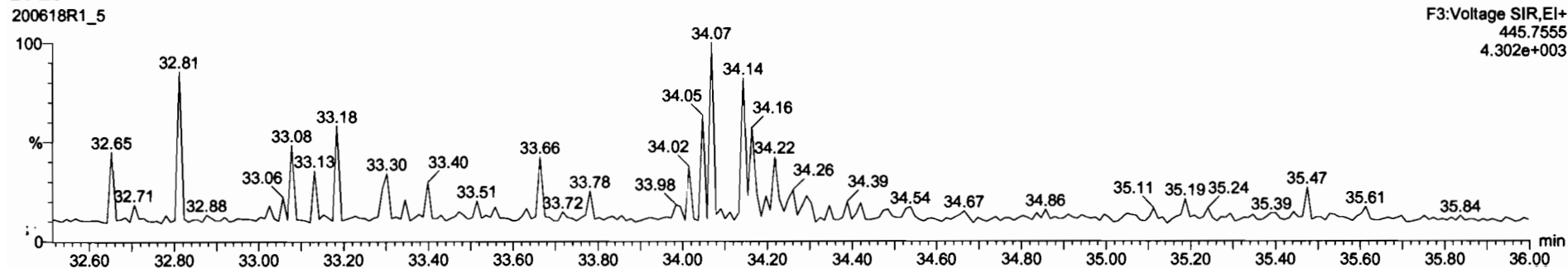
**1,2,3,4,7,8-HxCDF**



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



**DPE3**



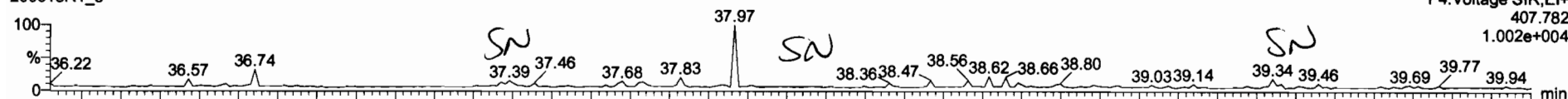
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Last Altered: Friday, June 19, 2020 07:32:51 Pacific Daylight Time  
Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

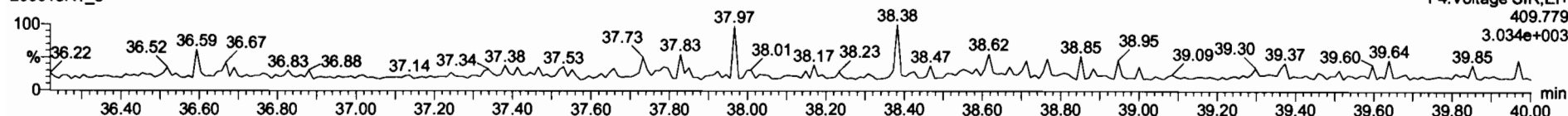
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1,2,3,4,6,7,8-HpCDF

200618R1\_5



200618R1\_5

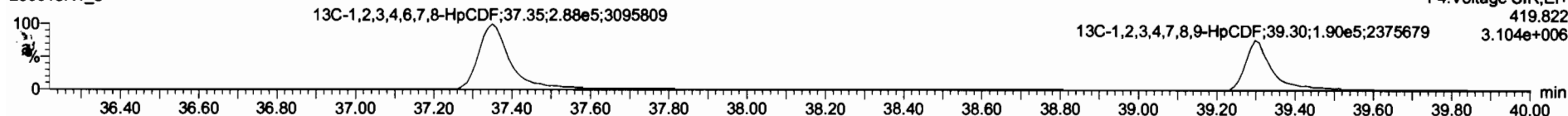


13C-1,2,3,4,6,7,8-HpCDF

200618R1\_5

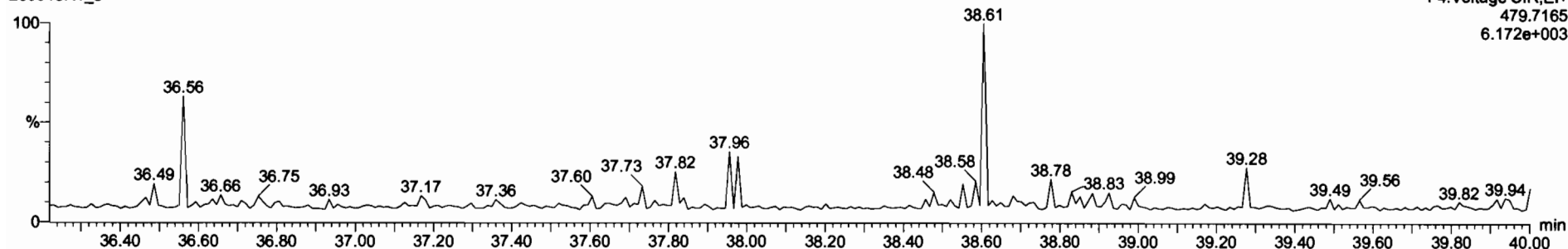


200618R1\_5



DPE4

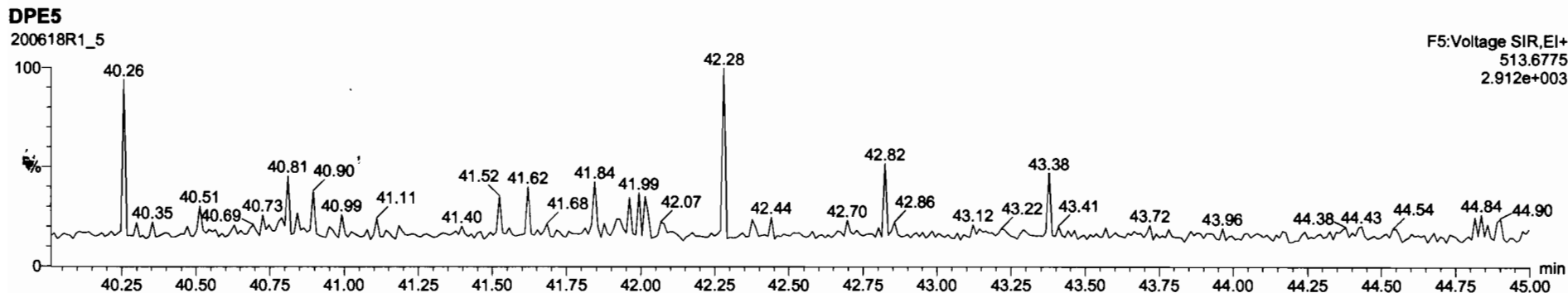
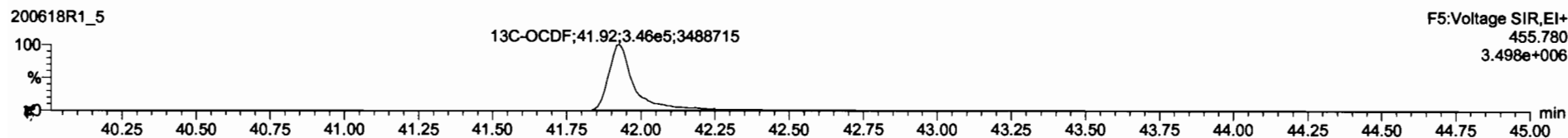
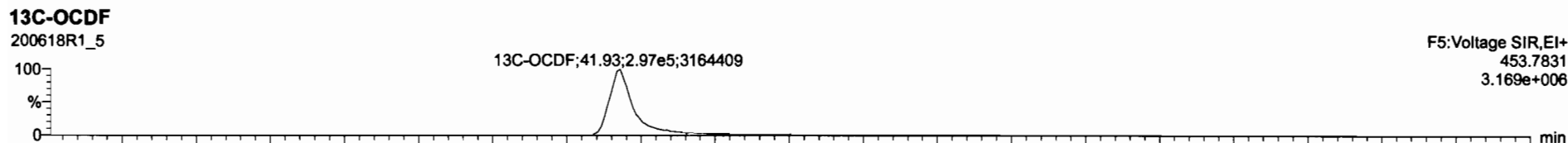
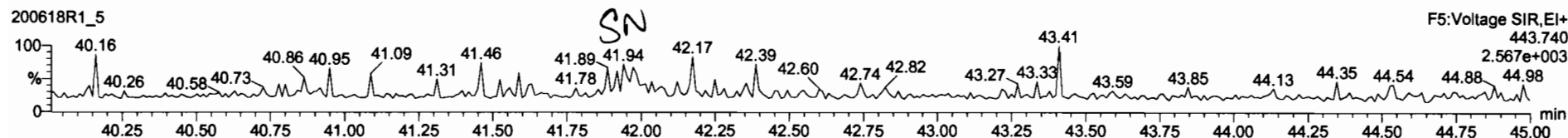
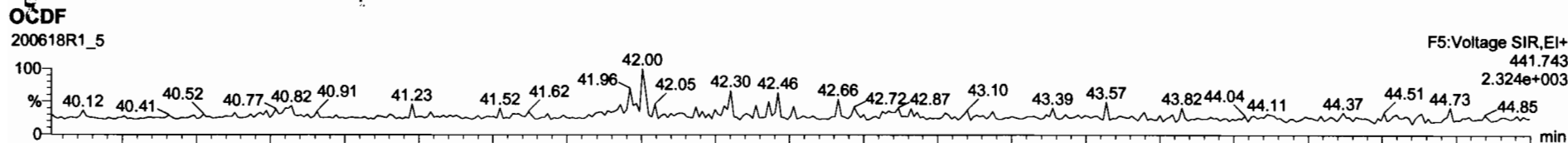
200618R1\_5



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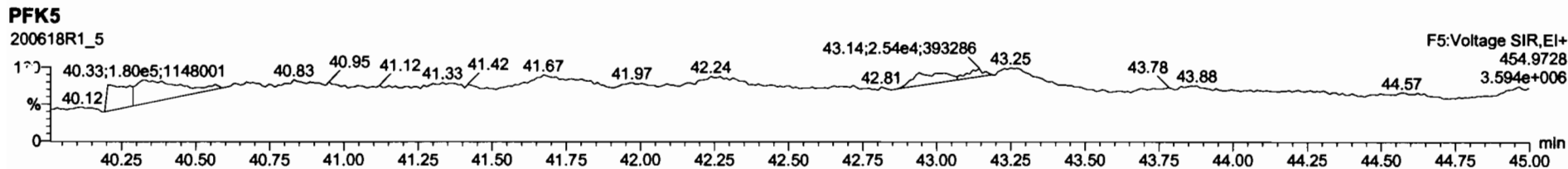
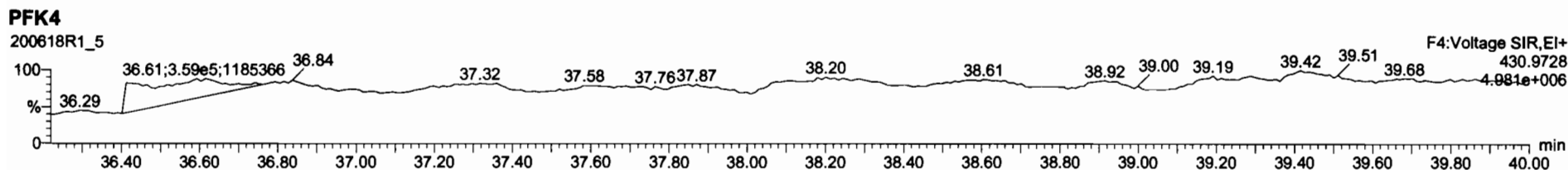
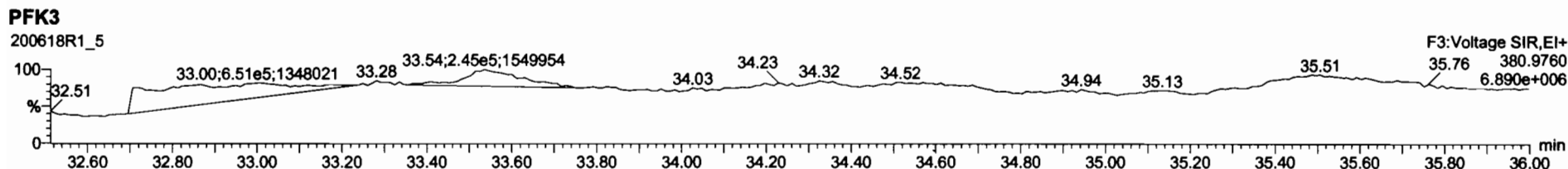
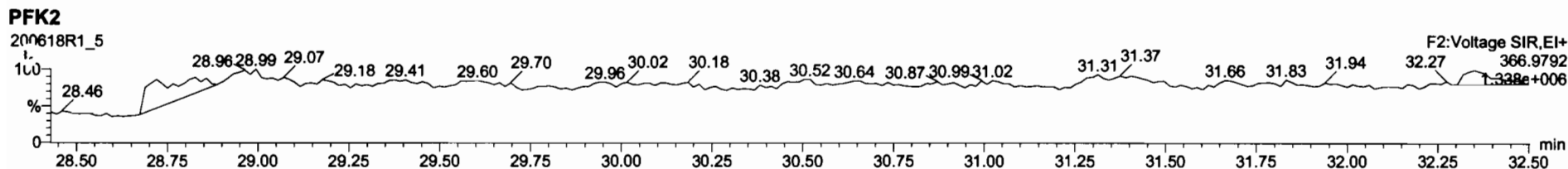
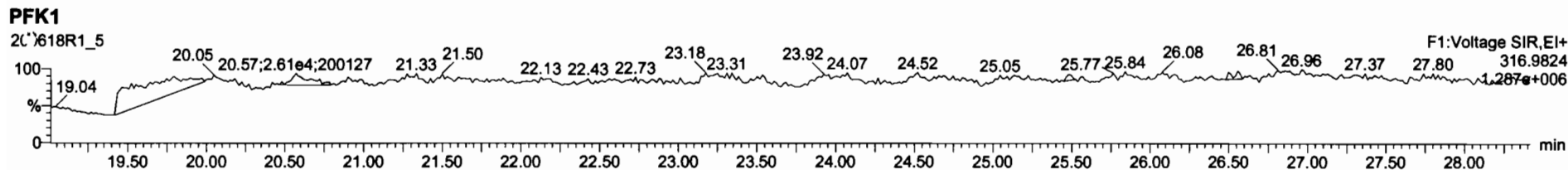
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Name: 200618R1\_5, Date: 18-Jun-2020, Time: 16:12:01, ID: B0E0232-BLK1 Method Blank 10, Description: Method Blank





Dataset: U:\VG12.PRO\Results\200618R1\200618R1-2.qld

Last Altered: Thursday, June 18, 2020 14:47:15 Pacific Daylight Time  
Printed: Thursday, June 18, 2020 14:47:43 Pacific Daylight Time

GRB 06/18/2020

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

C707/10/2020

Name: 200618R1\_2, Date: 18-Jun-2020, Time: 13:52:57, ID: B0E0232-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	Dt	EMF
1	2,3,7,8-TCDD	6.90e4	0.74	NO	0.888	10.000	26.500	26.50	1.001	1.001	19.378		0.101	19.4
2	1,2,3,7,8-PeCDD	2.87e5	0.61	NO	0.908	10.000	31.472	31.47	1.001	1.000	101.18		0.264	101
3	1,2,3,4,7,8-HxCDD	2.26e5	1.25	NO	1.03	10.000	34.835	34.84	1.000	1.000	107.39		0.334	107
4	1,2,3,6,7,8-HxCDD	3.10e5	1.27	NO	0.892	10.000	34.921	34.94	1.000	1.001	104.45		0.321	104
5	1,2,3,7,8,9-HxCDD	2.49e5	1.24	NO	0.887	10.000	35.219	35.22	1.000	1.000	99.969		0.392	100
6	1,2,3,4,6,7,8-HpCDD	1.62e5	1.03	NO	0.864	10.000	38.756	38.77	1.000	1.001	101.63		0.686	102
7	OCDD	2.65e5	0.87	NO	0.914	10.000	41.737	41.75	1.000	1.000	196.44		0.925	196
8	2,3,7,8-TCDF	7.69e4	0.75	NO	0.751	10.000	25.596	25.60	1.001	1.001	19.983		0.102	20.0
9	1,2,3,7,8-PeCDF	4.25e5	1.66	NO	0.893	10.000	30.175	30.17	1.001	1.001	99.936		0.314	99.9
10	2,3,4,7,8-PeCDF	4.38e5	1.53	NO	0.935	10.000	31.176	31.16	1.001	1.000	100.89		0.270	101
11	1,2,3,4,7,8-HxCDF	2.52e5	1.18	NO	0.884	10.000	33.952	33.96	1.000	1.000	100.37		0.632	100
12	1,2,3,6,7,8-HxCDF	3.28e5	1.14	NO	0.889	10.000	34.079	34.08	1.000	1.000	99.748		0.585	99.7
13	2,3,4,6,7,8-HxCDF	2.92e5	1.19	NO	0.934	10.000	34.689	34.68	1.001	1.001	101.26		0.650	101
14	1,2,3,7,8,9-HxCDF	2.12e5	1.22	NO	0.871	10.000	35.570	35.58	1.000	1.000	98.681		0.996	98.7
15	1,2,3,4,6,7,8-HpCDF	1.92e5	0.94	NO	0.873	10.000	37.376	37.36	1.001	1.001	99.173		0.680	99.2
16	1,2,3,4,7,8,9-HpCDF	1.36e5	0.98	NO	1.01	10.000	39.298	39.31	1.000	1.000	99.054		0.797	99.1
17	OCDF	2.88e5	0.86	NO	0.806	10.000	41.929	41.94	1.000	1.000	197.82		0.977	198
18	13C-2,3,7,8-TCDD	8.02e5	0.75	NO	1.16	10.000	26.491	26.47	1.026	1.026	181.93	91.0	0.290	
19	13C-1,2,3,7,8-PeCDD	6.24e5	0.66	NO	0.849	10.000	31.674	31.45	1.227	1.219	192.77	96.4	0.566	
20	13C-1,2,3,4,7,8-HxCDD	4.07e5	1.31	NO	0.779	10.000	34.830	34.83	1.014	1.014	153.57	76.8	0.848	
21	13C-1,2,3,6,7,8-HxCDD	6.64e5	1.41	NO	1.02	10.000	34.943	34.92	1.017	1.017	192.20	96.1	0.650	
22	13C-1,2,3,7,8,9-HxCDD	5.61e5	1.31	NO	0.903	10.000	35.215	35.21	1.025	1.025	182.68	91.3	0.732	
23	13C-1,2,3,4,6,7,8-HpCDD	3.69e5	1.04	NO	0.689	10.000	38.738	38.74	1.128	1.128	157.31	78.7	0.832	
24	13C-OCDD	5.91e5	0.90	NO	0.652	10.000	41.761	41.74	1.216	1.215	266.48	66.6	0.870	
25	13C-2,3,7,8-TCDF	1.03e6	0.78	NO	1.06	10.000	25.534	25.57	0.989	0.991	157.68	78.8	0.382	
26	13C-1,2,3,7,8-PeCDF	9.53e5	1.66	NO	0.838	10.000	30.058	30.15	1.165	1.168	185.17	92.6	0.841	
27	13C-2,3,4,7,8-PeCDF	9.29e5	1.60	NO	0.817	10.000	31.011	31.15	1.202	1.207	185.25	92.6	0.863	
28	13C-1,2,3,4,7,8-HxCDF	5.67e5	0.48	NO	1.01	10.000	33.961	33.95	0.989	0.989	165.50	82.7	1.00	
29	13C-1,2,3,6,7,8-HxCDF	7.41e5	0.54	NO	1.17	10.000	34.085	34.07	0.992	0.992	186.62	93.3	0.866	
30	13C-2,3,4,6,7,8-HxCDF	6.18e5	0.52	NO	1.02	10.000	34.658	34.65	1.009	1.009	177.84	88.9	0.990	
31	13C-1,2,3,7,8,9-HxCDF	4.93e5	0.51	NO	0.860	10.000	35.558	35.57	1.035	1.036	168.85	84.4	1.18	

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-2.qld

Last Altered: Thursday, June 18, 2020 14:47:15 Pacific Daylight Time

Printed: Thursday, June 18, 2020 14:47:43 Pacific Daylight Time

Name: 200618R1\_2, Date: 18-Jun-2020, Time: 13:52:57, ID: B0E0232-BS1 OPR 10, Description: OPR

Name	Resp	RA	n/y	RRF	w/vol	Prod.RT	RT	RRR	RRR	Conc	SM	SA
32 13C-1,2,3,4,6,7,8-HpCDF	4.44e5	0.40	NO	0.774	10.000	37.306	37.34	1.086	1.087	168.61	84.3	1.01
33 13C-1,2,3,4,7,8,9-HpCDF	2.71e5	0.41	NO	0.521	10.000	39.336	39.30	1.145	1.144	153.05	76.5	1.50
34 13C-OCDF	7.23e5	0.88	NO	0.746	10.000	41.933	41.93	1.221	1.221	285.14	71.3	0.743
35 37Cl-2,3,7,8-TCDD	3.32e5			1.04	10.000	26.522	26.48	1.028	1.026	84.002	105	0.0853
36 13C-1,2,3,4-TCDD	7.63e5	0.79	NO	1.00	10.000	25.890	25.81	1.000	1.000	200.00	100	0.336
37 13C-1,2,3,4-TCDF	1.23e6	0.79	NO	1.00	10.000	24.360	24.12	1.000	1.000	200.00	100	0.405
38 13C-1,2,3,4,6,9-HxCDF	6.80e5	0.53	NO	1.00	10.000	34.420	34.35	1.000	1.000	200.00	100	1.01

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Printed: Thursday, June 18, 2020 14:40:29 Pacific Daylight Time

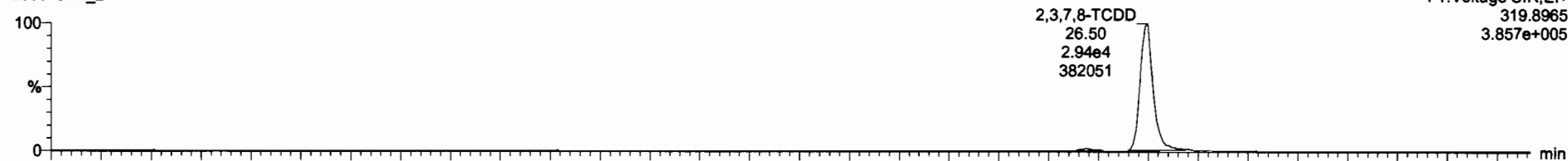
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Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

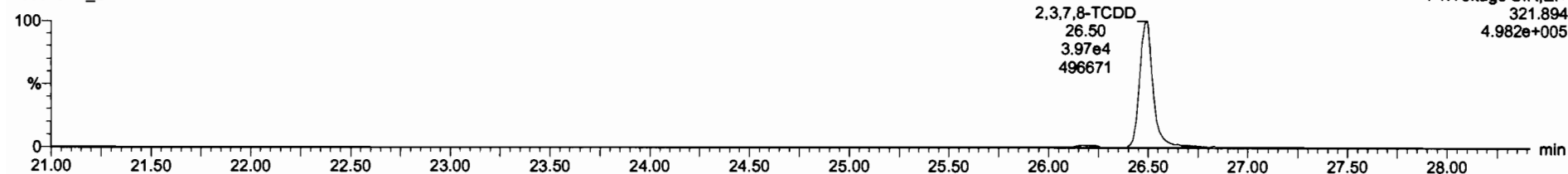
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**2,3,7,8-TCDD**

200618R1\_2

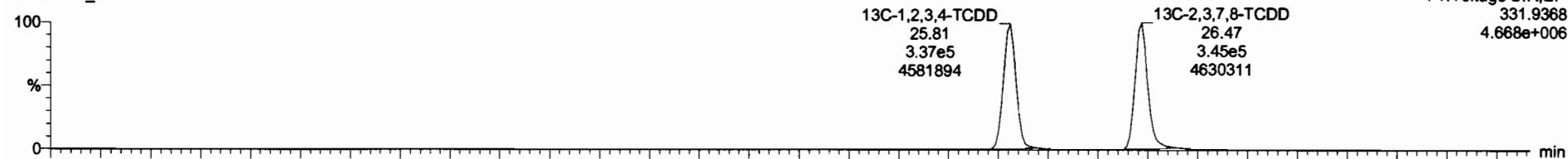


200618R1\_2

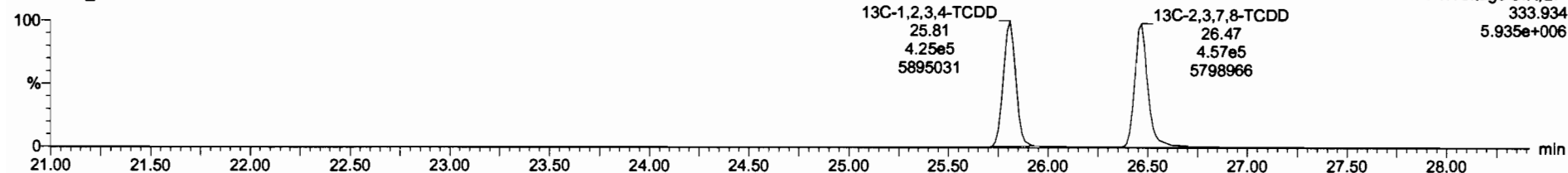


**13C-2,3,7,8-TCDD**

200618R1\_2



200618R1\_2



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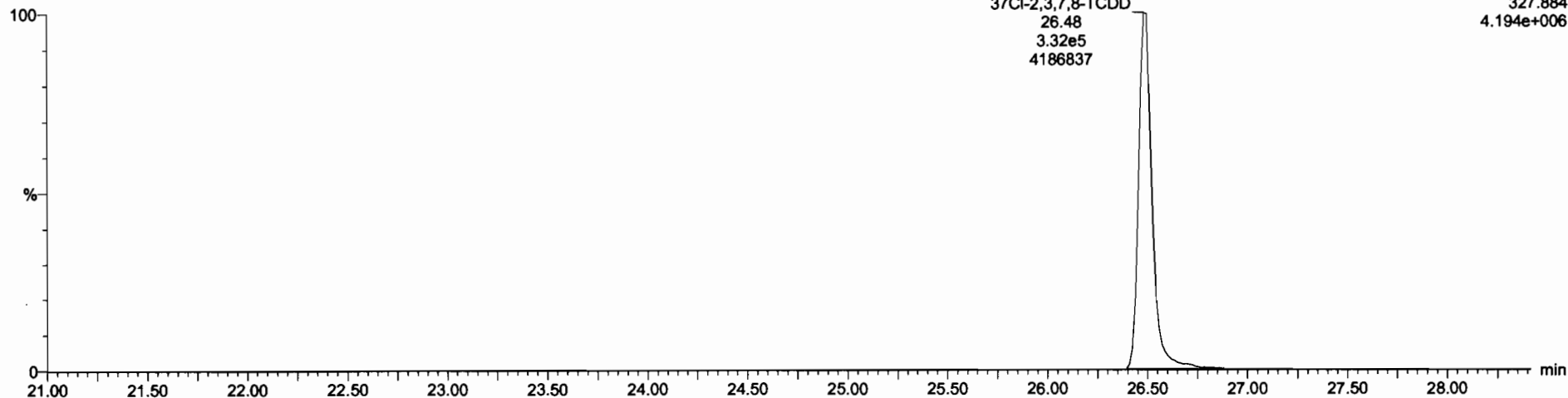
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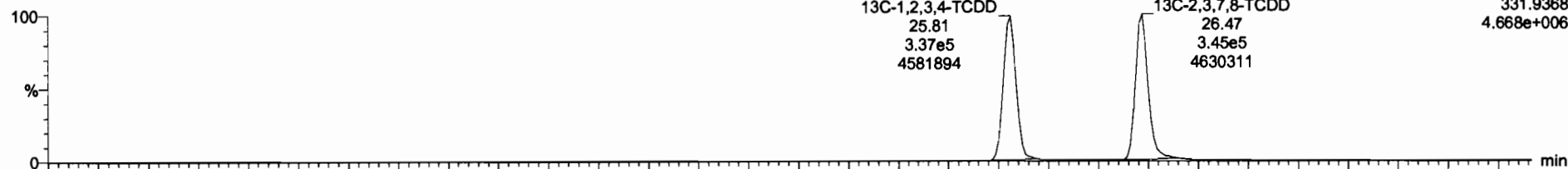
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200618R1\_2

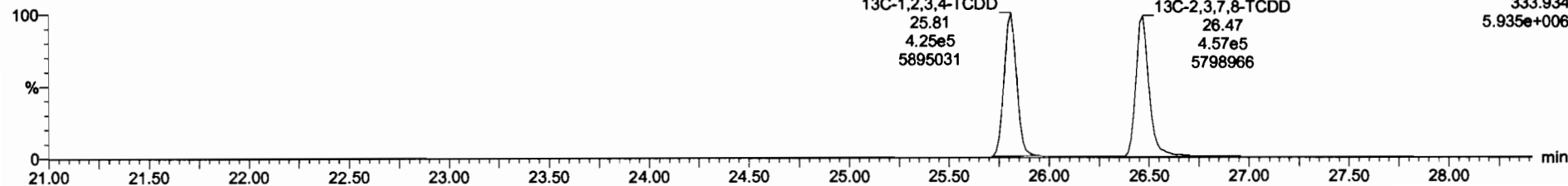


**13C-1,2,3,4-TCDD**

200618R1\_2



200618R1\_2



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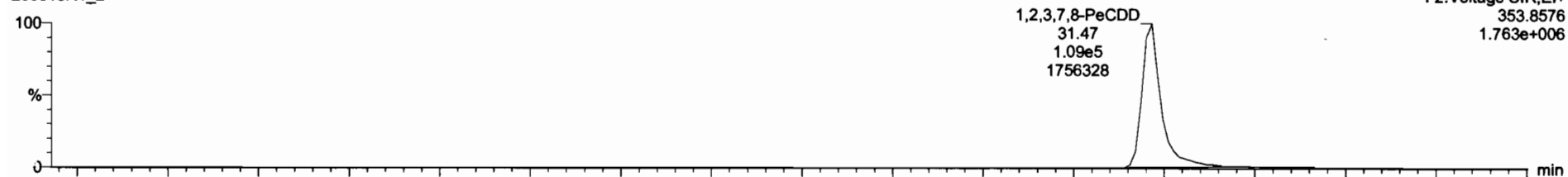
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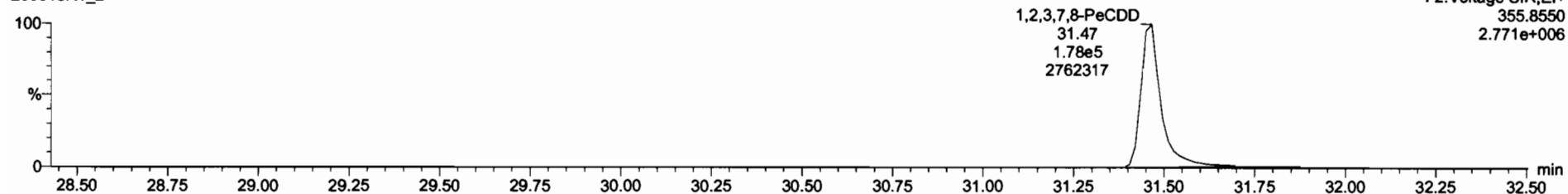
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**1,2,3,7,8-PeCDD**

200618R1\_2

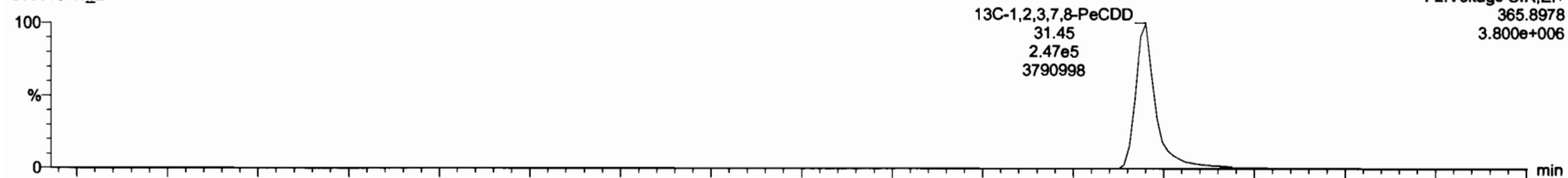


200618R1\_2

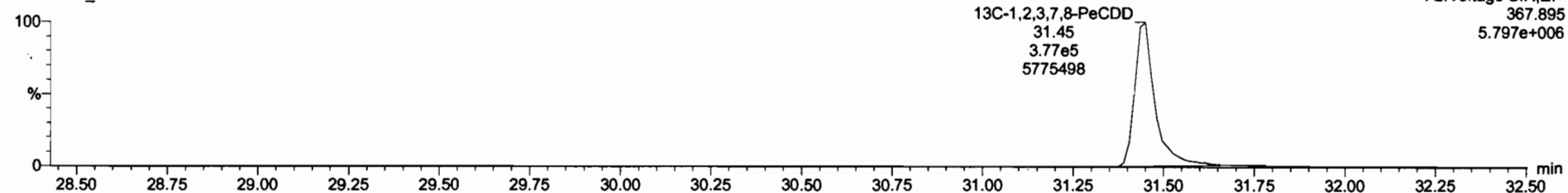


**13C-1,2,3,7,8-PeCDD**

200618R1\_2



200618R1\_2



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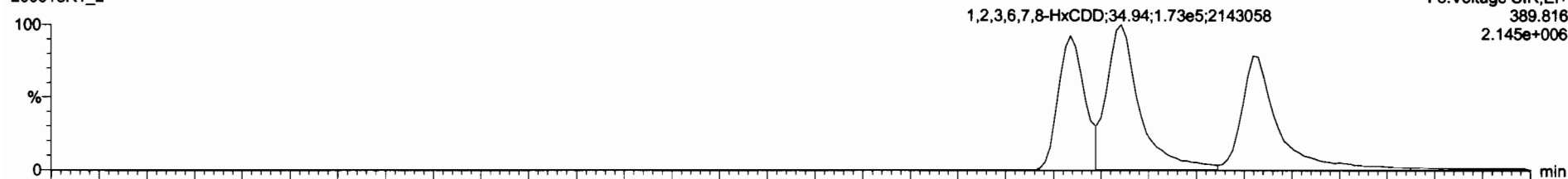
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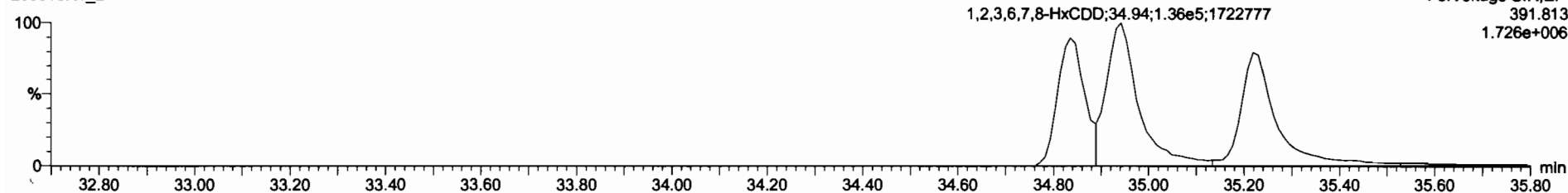
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**1,2,3,4,7,8-HxCDD**

200618R1\_2

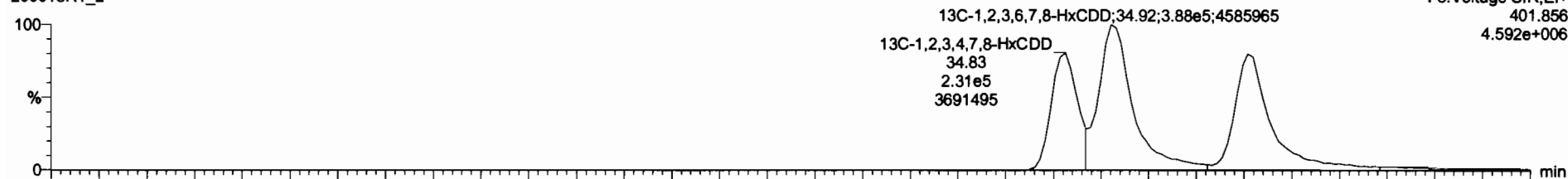


200618R1\_2

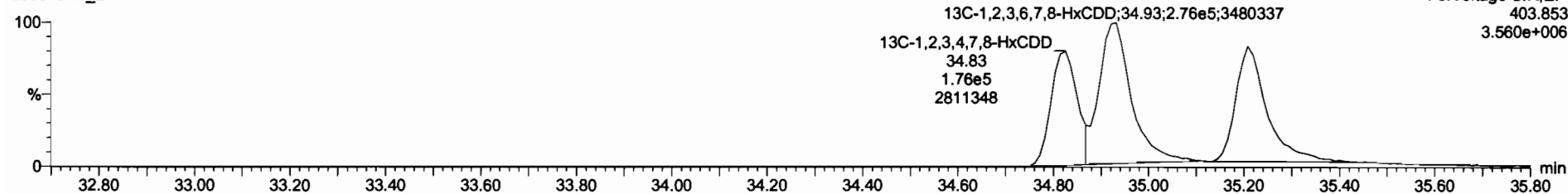


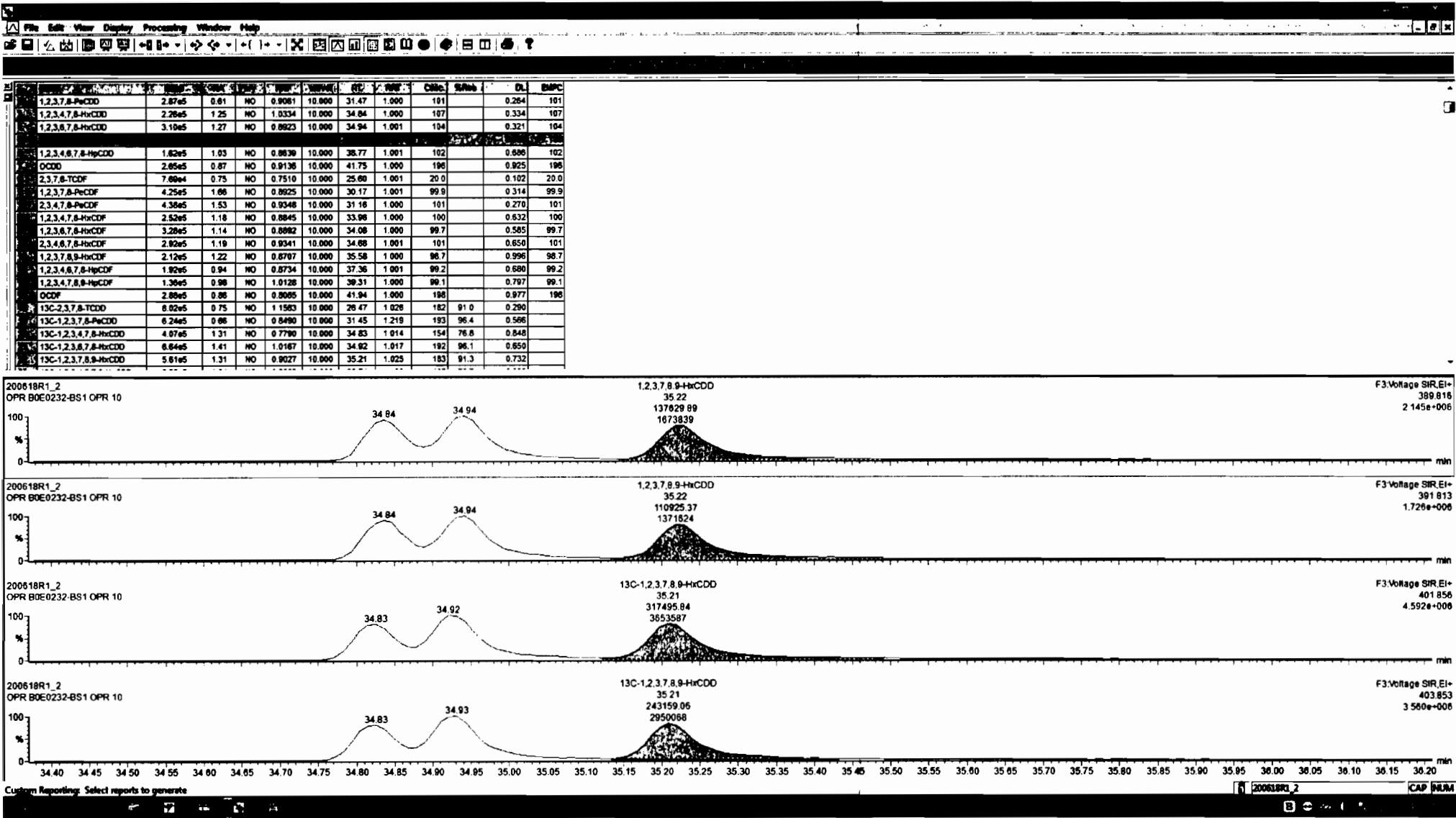
**13C-1,2,3,4,7,8-HxCDD**

200618R1\_2



200618R1\_2





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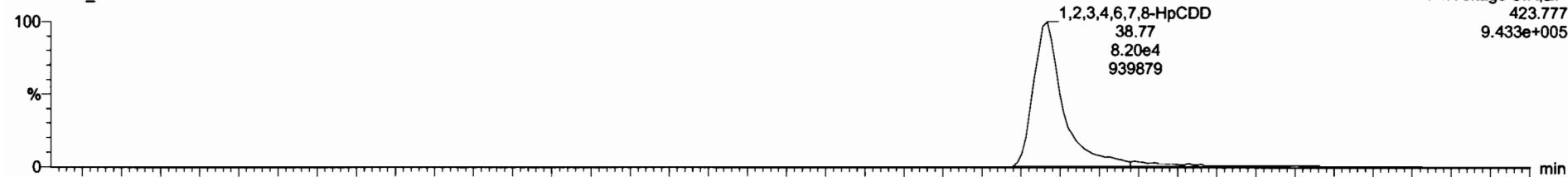
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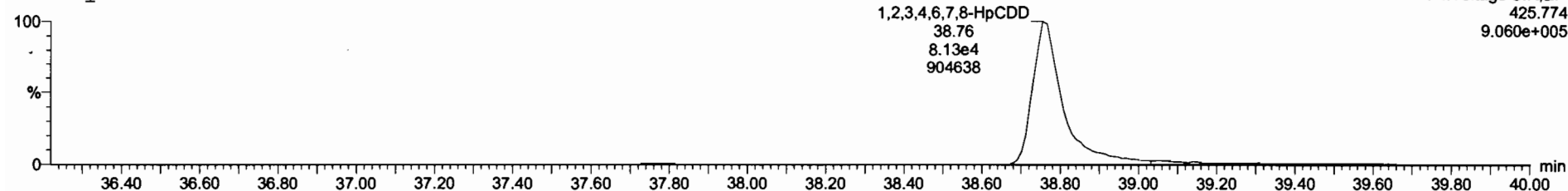
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**1,2,3,4,6,7,8-HpCDD**

200618R1\_2

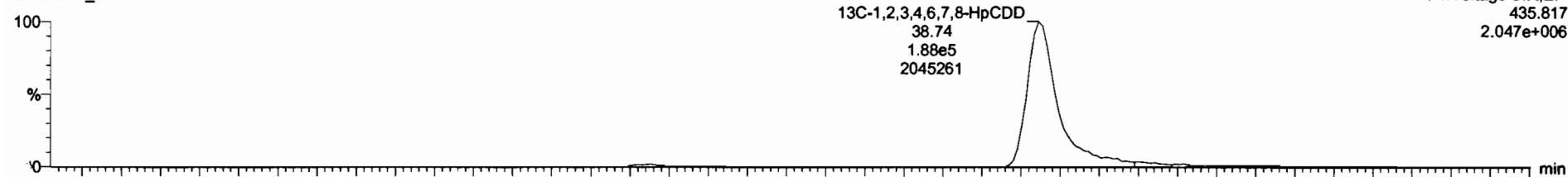


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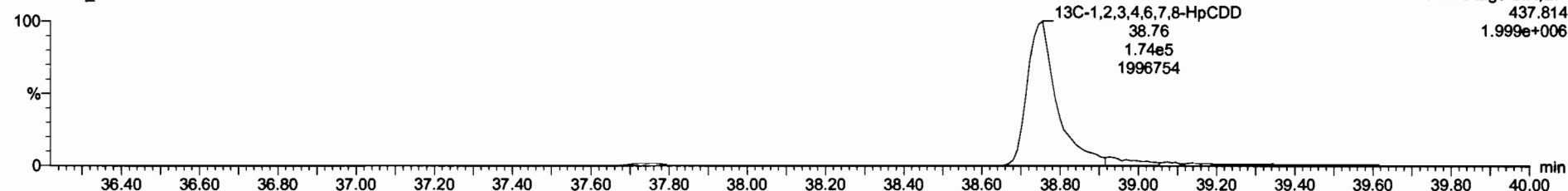


**<sup>13</sup>C-1,2,3,4,6,7,8-HpCDD**

200618R1\_2

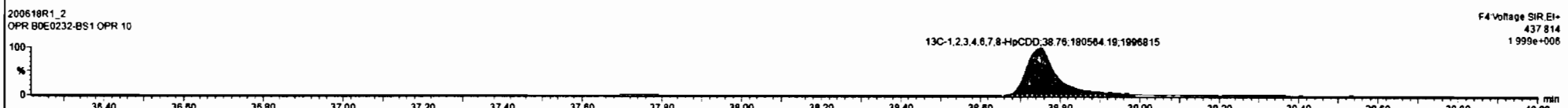
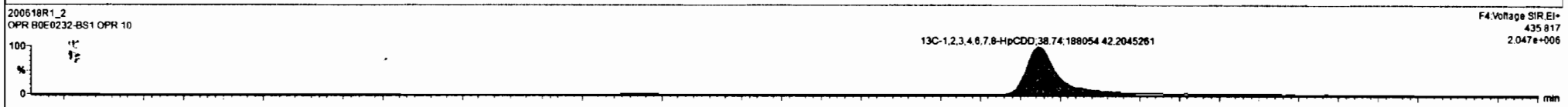
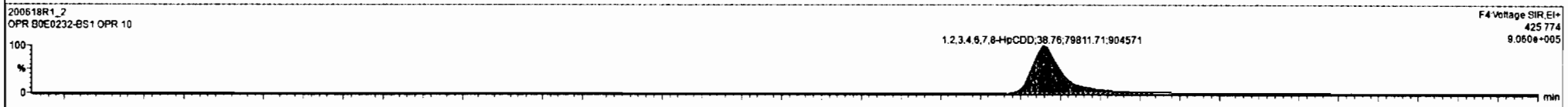
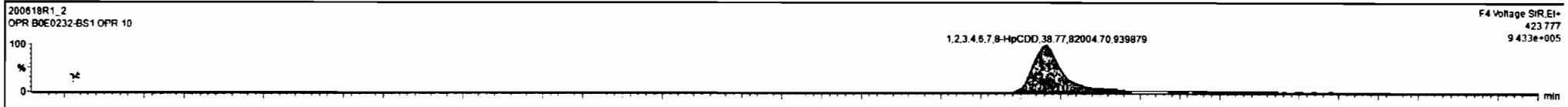


200618R1\_2





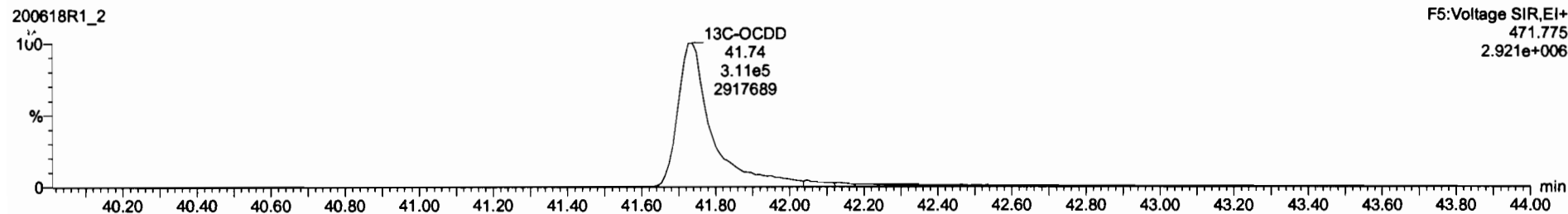
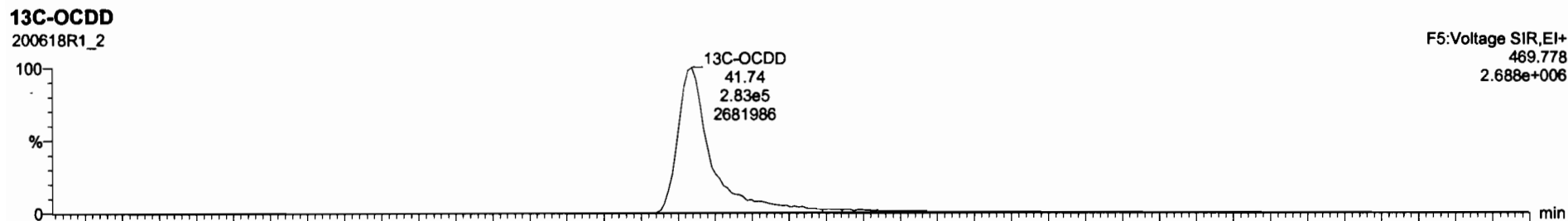
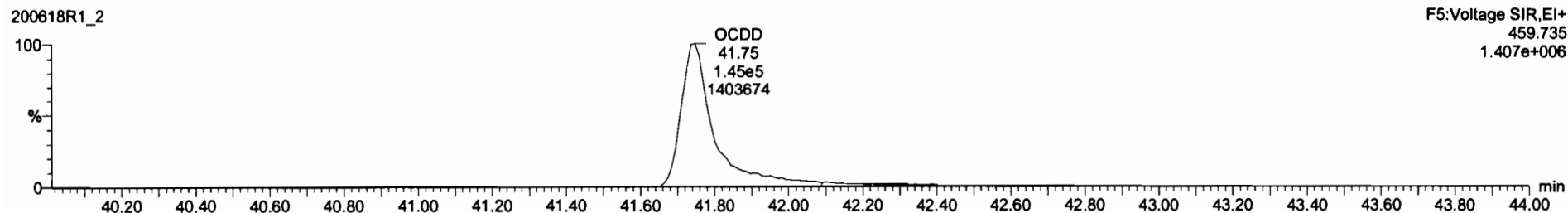
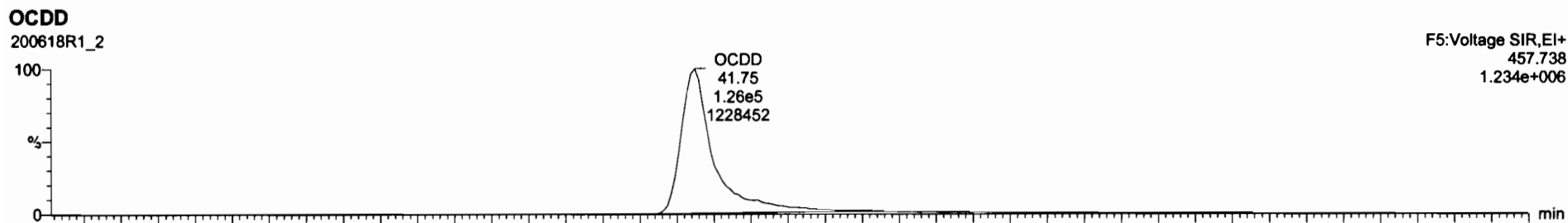
NAME	Area	%Area	Off	Integ	Height	RT	FWHM	Count	%Raw	QL	EMPC
2,3,7,8-TCDD	6.90e4	0.74	NO	0.8883	10.000	26.50	1.001	19.4		0.101	19.4
1,2,3,7,8-PeCDD	2.87e5	0.81	NO	0.9081	10.000	31.47	1.000	101		0.264	101
1,2,3,4,7,8-HxCDD	2.26e5	1.25	NO	1.0334	10.000	34.84	1.000	107		0.334	107
1,2,3,6,7,8-HxCDD	3.10e5	1.27	NO	0.8923	10.000	34.84	1.001	104		0.321	104
1,2,3,7,8-HxCDD	2.49e5	1.24	NO	0.8889	10.000	35.22	1.000	105		0.414	105
OCDD	2.71e5	0.87	NO	0.9136	10.000	41.75	1.000	200		0.932	200
2,3,7,8-TCDF	7.69e4	0.75	NO	0.7510	10.000	25.60	1.001	20.0		0.102	20.0
1,2,3,7,8-PeCDF	4.25e5	1.66	NO	0.8825	10.000	30.17	1.001	99.9		0.314	99.9
2,3,4,7,8-PeCDF	4.38e5	1.53	NO	0.9348	10.000	31.18	1.000	101		0.270	101
1,2,3,4,7,8-HxCDF	2.52e5	1.18	NO	0.8845	10.000	33.96	1.000	100		0.632	100
1,2,3,6,7,8-HxCDF	3.34e5	1.10	NO	0.8892	10.000	34.08	1.000	101		0.585	101
2,3,4,6,7,8-HxCDF	3.02e5	1.20	NO	0.9341	10.000	34.68	1.001	104		0.655	104
1,2,3,7,8-HxCDF	2.26e5	1.22	NO	0.8707	10.000	35.58	1.000	98.8		0.967	98.8
1,2,3,4,6,7,8-HpCDF	1.82e5	0.94	NO	0.8734	10.000	37.36	1.001	99.2		0.660	99.2
1,2,3,4,7,8-HpCDF	1.45e5	0.98	NO	1.0128	10.000	39.31	1.000	99.9		0.762	99.9
OCDF	2.89e5	0.86	NO	0.8065	10.000	41.94	1.000	198		0.977	198
13C-2,3,7,8-TCDD	8.02e5	0.75	NO	1.1563	10.000	26.47	1.026	182	91.0	0.290	
13C-1,2,3,7,8-PeCDD	6.24e5	0.66	NO	0.8490	10.000	31.45	1.219	193	96.4	0.566	
13C-1,2,3,4,7,8-HxCDD	4.07e5	1.31	NO	0.7790	10.000	34.83	1.014	154	76.8	0.848	
13C-1,2,3,6,7,8-HxCDD	6.84e5	1.41	NO	1.0167	10.000	34.82	1.017	192	96.1	0.850	



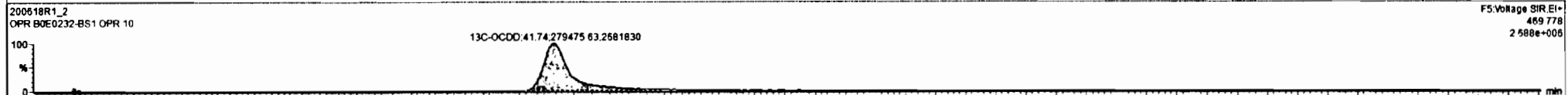
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Last Altered: Thursday, June 18, 2020 14:39:26 Pacific Daylight Time  
Printed: Thursday, June 18, 2020 14:40:29 Pacific Daylight Time

Name: 200618R1\_2, Date: 18-Jun-2020, Time: 13:52:57, ID: B0E0232-BS1 OPR 10, Description: OPR



Compound	Area	Height	Width	Area%	Height%	Width%	Retention	Response	Concentration	Limit	Ratio	Ratio%
2,3,7,8-TCDD	6.80e4	0.74	NO	0.8883	10.000	26.50	1.001	19.4			0.101	19.4
1,2,3,7,8-PeCDD	2.87e5	0.61	NO	0.9081	10.000	31.47	1.000	101			0.264	101
1,2,3,4,7,8-HxCDD	2.26e5	1.25	NO	1.0334	10.000	34.84	1.000	107			0.334	107
1,2,3,6,7,8-HxCDD	3.10e5	1.27	NO	0.9823	10.000	34.94	1.001	104			0.321	104
1,2,3,8,9-HxCDD	2.49e5	1.24	NO	0.8889	10.000	35.22	1.000	105			0.414	105
1,2,3,4,6,7,8-HpCDD	1.62e5	1.03	NO	0.8639	10.000	36.77	1.001	102			0.686	102
2,3,7,8-TCDF	7.69e4	0.75	NO	0.7510	10.000	26.60	1.001	20.0			0.102	20.0
1,2,3,7,8-PeCDF	4.25e5	1.66	NO	0.9625	10.000	30.17	1.001	99.9			0.314	99.9
2,3,4,7,8-PeCDF	4.38e5	1.53	NO	0.9348	10.000	31.16	1.000	101			0.270	101
1,2,3,4,7,8-HxCDF	2.52e5	1.18	NO	0.8845	10.000	33.96	1.000	100			0.632	100
1,2,3,6,7,8-HxCDF	3.34e5	1.10	NO	0.8892	10.000	34.08	1.000	101			0.585	101
2,3,4,6,7,8-HxCDF	3.92e5	1.20	NO	0.9341	10.000	34.68	1.001	104			0.655	104
1,2,3,7,8,9-HxCDF	2.26e5	1.22	NO	0.8707	10.000	35.58	1.000	86.8			0.987	98.8
1,2,3,4,6,7,8-HpCDF	1.92e5	0.94	NO	0.8734	10.000	37.36	1.001	99.2			0.660	99.2
1,2,3,4,7,8,9-HpCDF	1.45e5	0.98	NO	1.0128	10.000	39.31	1.000	98.9			0.782	98.9
OCDF	2.88e5	0.86	NO	0.8065	10.000	41.94	1.000	196			0.977	196
13C-2,3,7,8-TCDD	8.82e5	0.75	NO	1.1563	10.000	26.47	1.026	182	91.0		0.290	
13C-1,2,3,7,8-PeCDD	6.24e5	0.66	NO	0.8490	10.000	31.45	1.219	193	96.4		0.596	
13C-1,2,3,4,7,8-HxCDD	4.07e5	1.31	NO	0.7790	10.000	34.83	1.014	154	76.8		0.848	
13C-1,2,3,6,7,8-HxCDD	6.84e5	1.41	NO	1.0167	10.000	34.92	1.017	192	96.1		0.850	



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Last Altered: Thursday, June 18, 2020 14:39:26 Pacific Daylight Time

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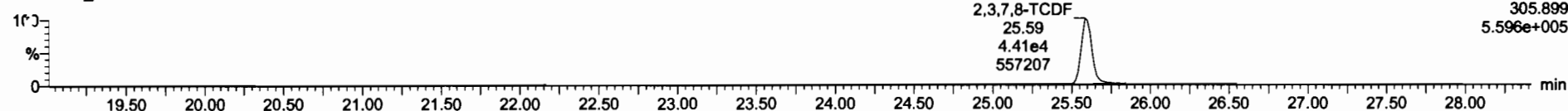
Name: 200618R1\_2, Date: 18-Jun-2020, Time: 13:52:57, ID: B0E0232-BS1 OPR 10, Description: OPR

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

200618R1\_2

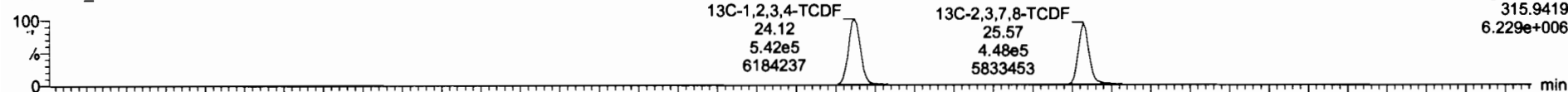


200618R1\_2

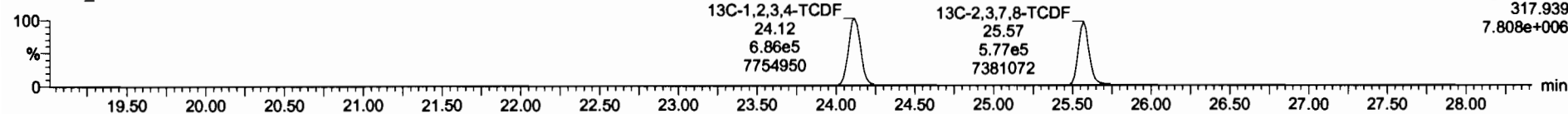


**13C-2,3,7,8-TCDF**

200618R1\_2

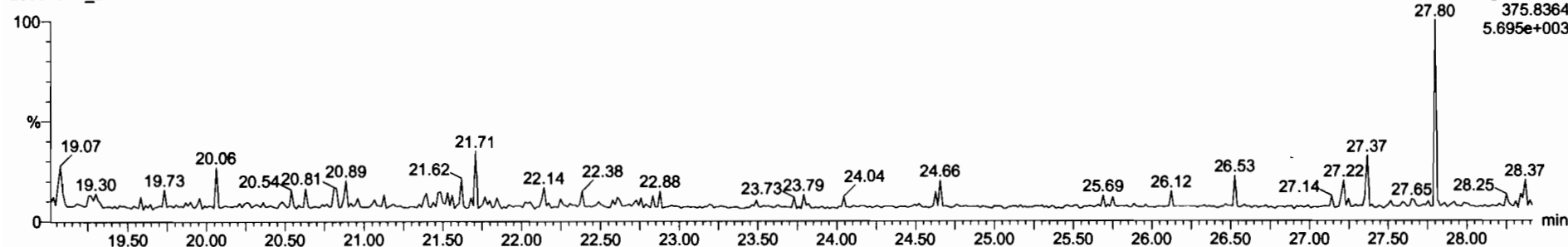


200618R1\_2



**DPE1**

200618R1\_2

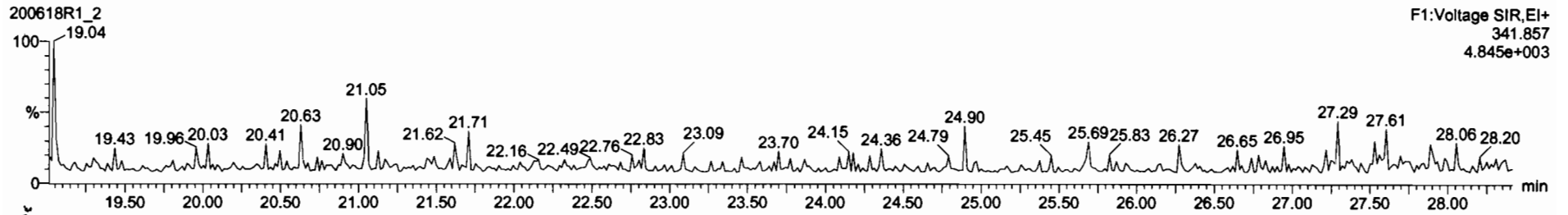
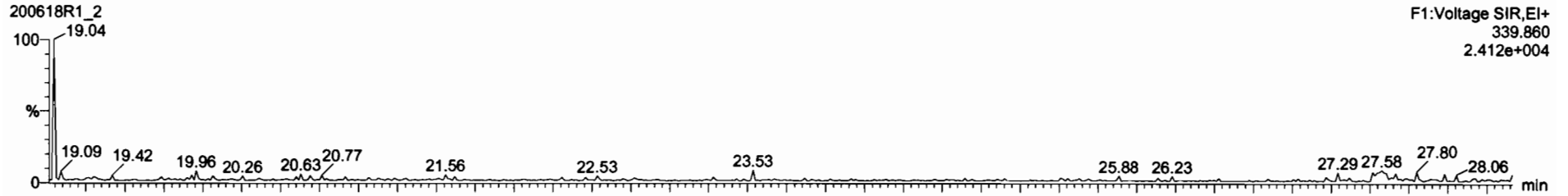


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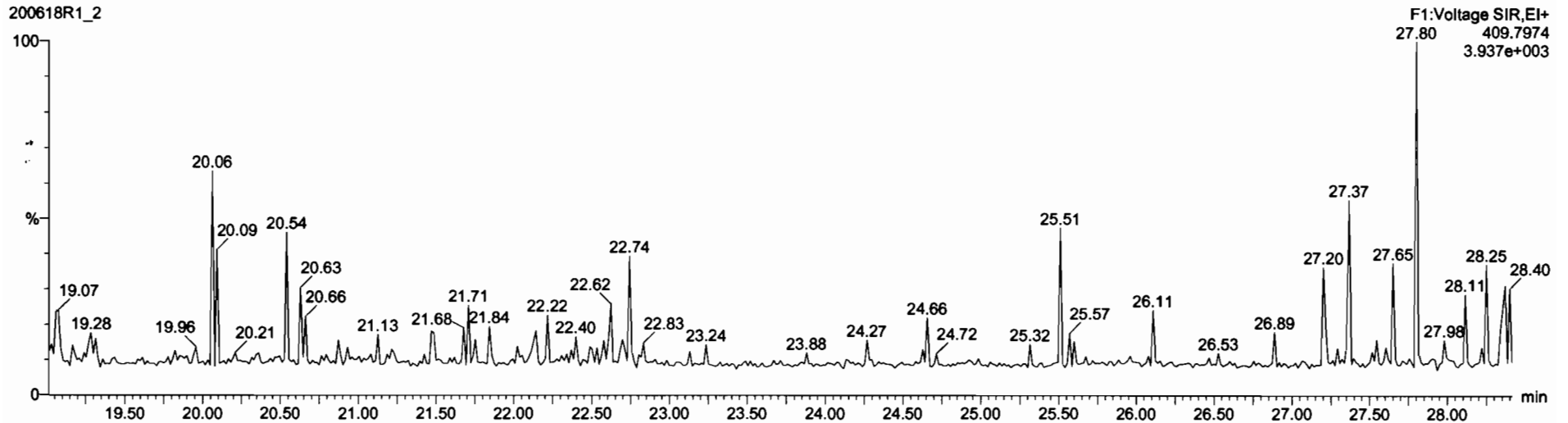
Last Altered: Thursday, June 18, 2020 14:39:26 Pacific Daylight Time  
Printed: Thursday, June 18, 2020 14:40:29 Pacific Daylight Time

Name: 200618R1\_2, Date: 18-Jun-2020, Time: 13:52:57, ID: B0E0232-BS1 OPR 10, Description: OPR

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DPE6



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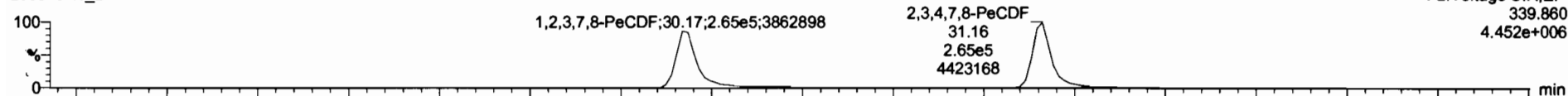
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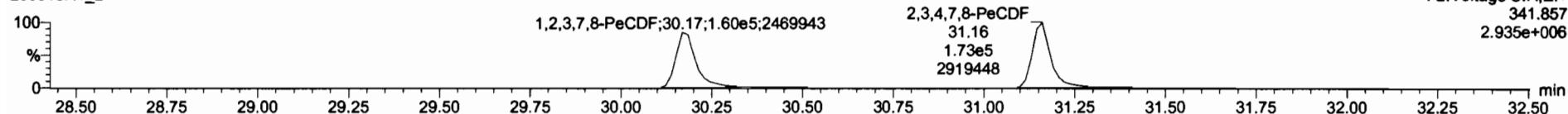
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**1,2,3,7,8-PeCDF**

200618R1\_2

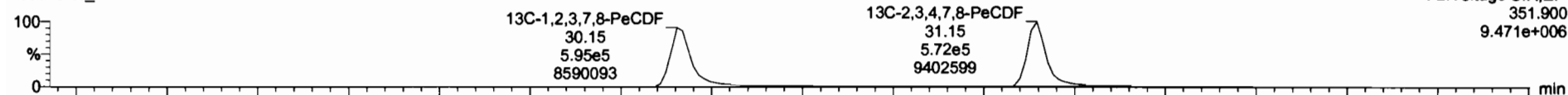


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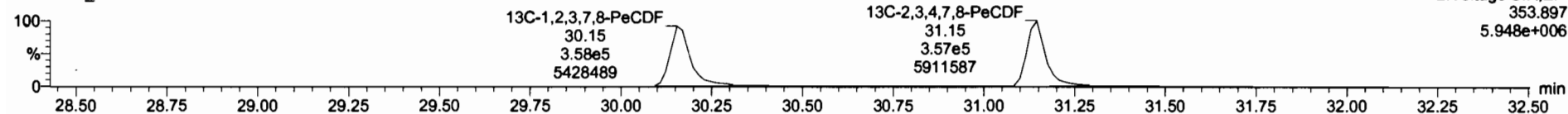


**13C-1,2,3,7,8-PeCDF**

200618R1\_2

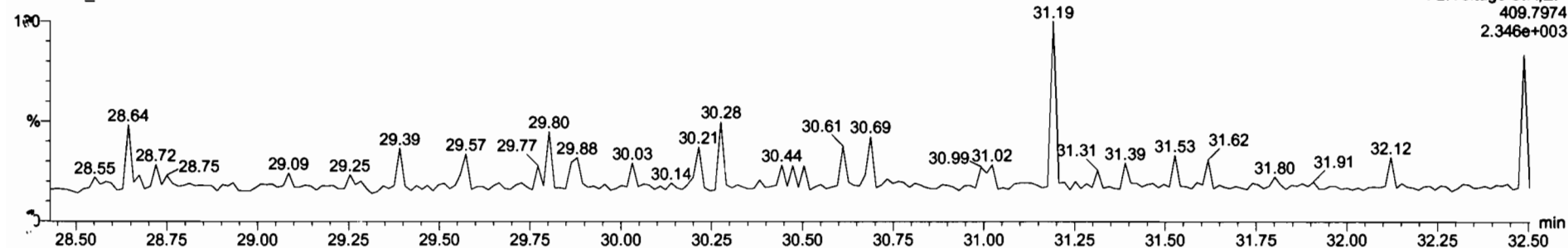


200618R1\_2



**DPE2**

200618R1\_2



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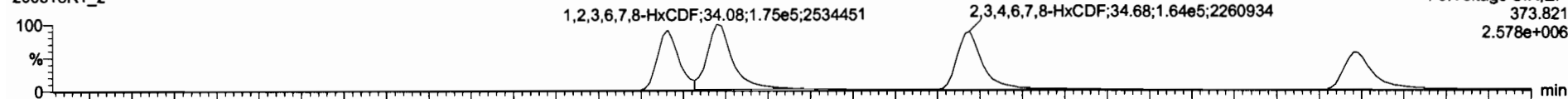
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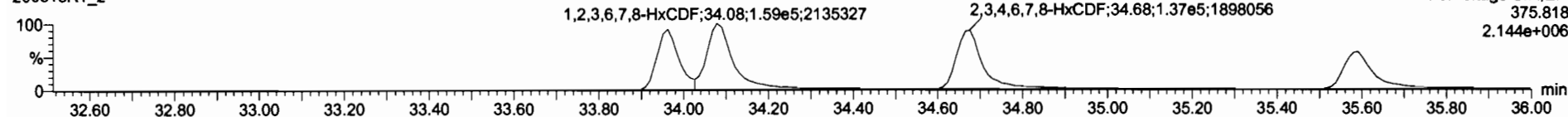
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**1,2,3,4,7,8-HxCDF**

200618R1\_2

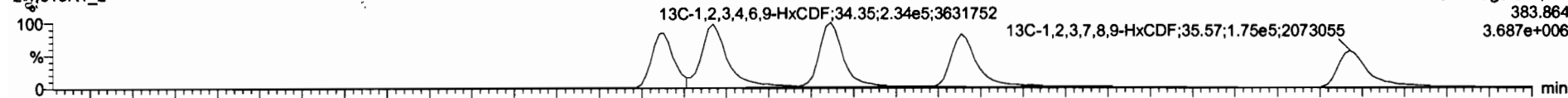


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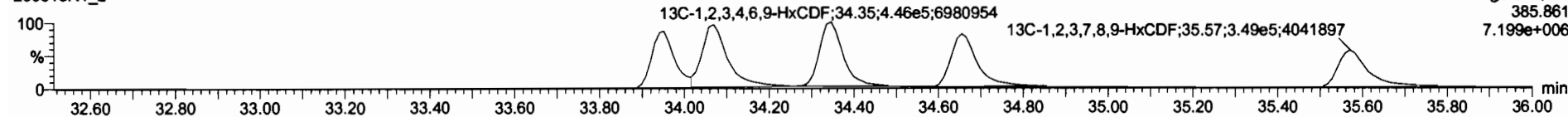


**13C-1,2,3,4,7,8-HxCDF**

200618R1\_2

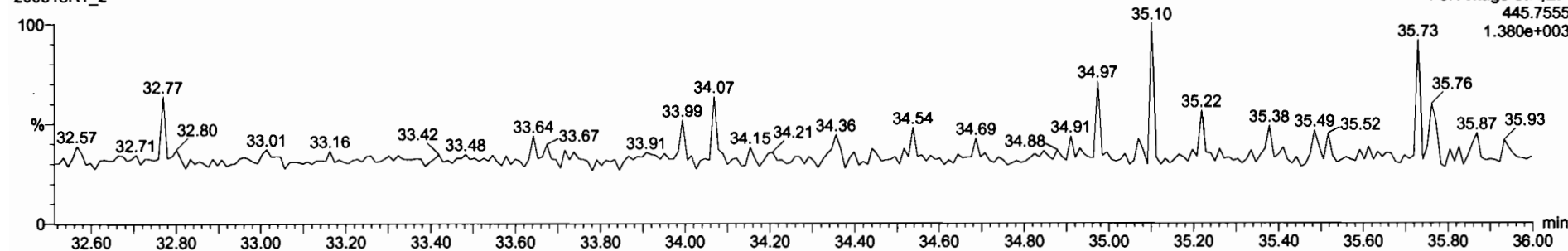


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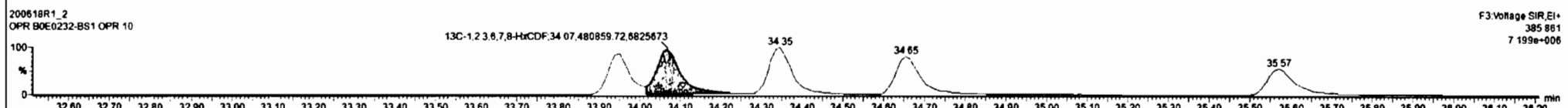
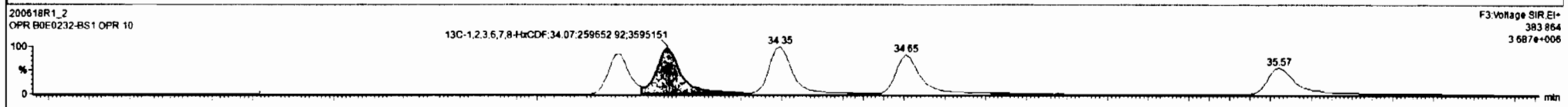
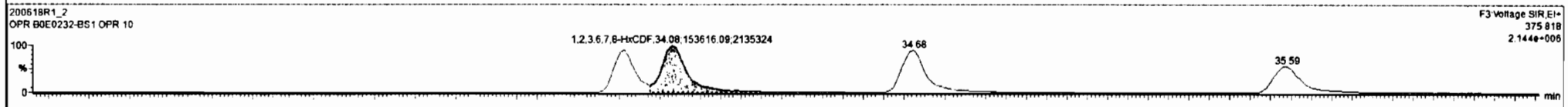
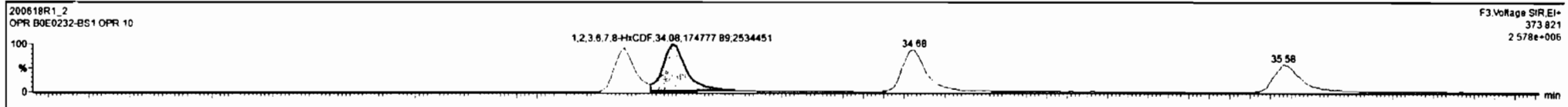


**DPE3**

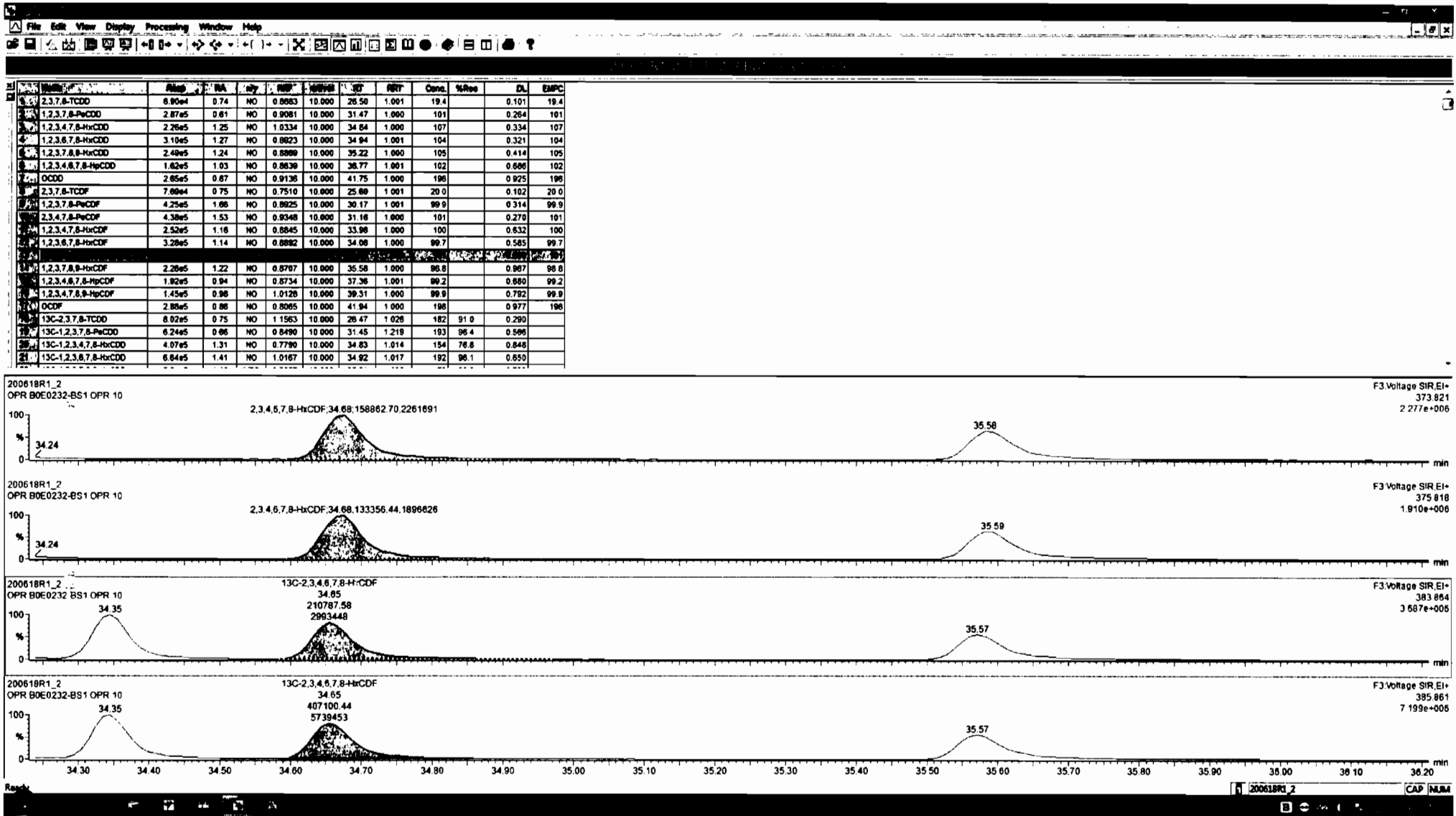
200618R1\_2



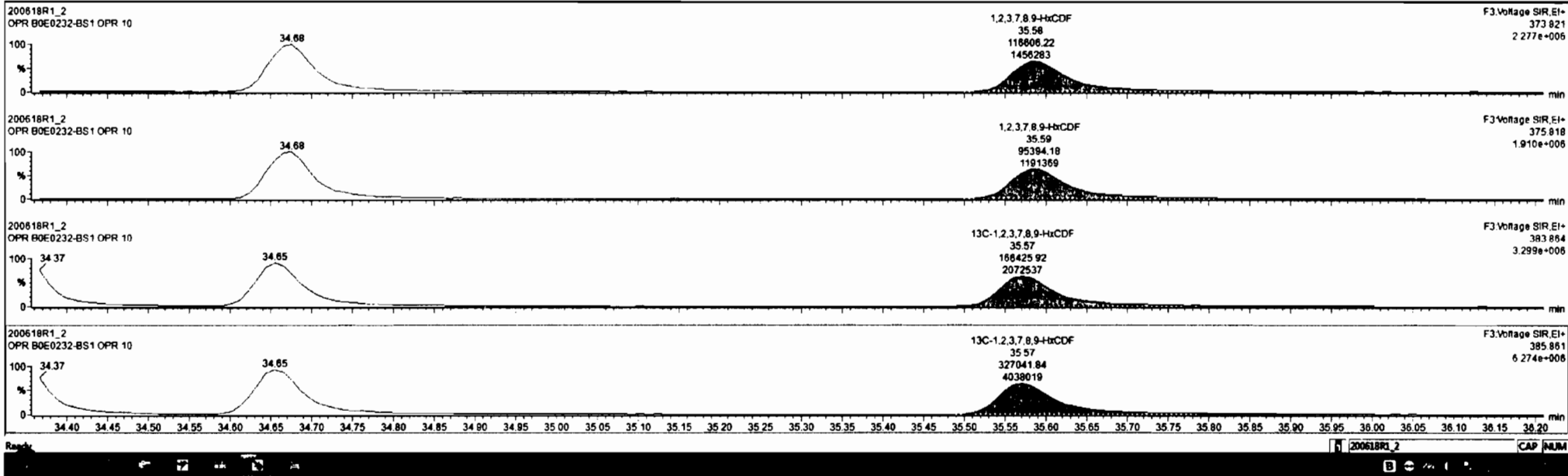
Peak	Ret	Area	Height	Width	RT	RRT	Conc.	%Res	DL	EMPC
2,3,7,8-TCDD	6.80e4	0.74	NO	0.8883	10.000	26.50	1.001	19.4	0.101	19.4
1,2,3,7,8-PeCDD	2.87e5	0.61	NO	0.9081	10.000	31.47	1.000	101	0.264	101
1,2,3,4,7,8-HxCDD	2.26e5	1.25	NO	1.0334	10.000	34.84	1.000	107	0.334	107
1,2,3,6,7,8-HxCDD	3.10e5	1.27	NO	0.8823	10.000	34.84	1.001	104	0.321	104
1,2,3,7,8,9-HxCDD	2.49e5	1.24	NO	0.8889	10.000	35.22	1.000	105	0.414	105
1,2,3,4,6,7,8-HpCDD	1.62e5	1.03	NO	0.8630	10.000	36.77	1.001	102	0.680	102
OCDD	2.85e5	0.87	NO	0.9138	10.000	41.75	1.000	198	0.925	198
2,3,7,8-DF	7.69e4	0.75	NO	0.7510	10.000	25.60	1.001	20.0	0.102	20.0
1,2,3,7,8-PeCDF	4.25e5	1.68	NO	0.8925	10.000	30.17	1.001	99.9	0.314	99.9
2,3,4,7,8-PeCDF	4.38e5	1.53	NO	0.9348	10.000	31.18	1.000	101	0.270	101
1,2,3,4,7,8-HxCDF	2.52e5	1.18	NO	0.8645	10.000	33.98	1.000	100	0.632	100
2,3,4,6,7,8-HxCDF	3.02e5	1.20	NO	0.9341	10.000	34.68	1.001	104	0.655	104
1,2,3,7,8,9-HxCDF	2.26e5	1.22	NO	0.8707	10.000	35.58	1.000	98.8	0.987	98.8
1,2,3,4,6,7,8-HpCDF	1.92e5	0.94	NO	0.8734	10.000	37.36	1.001	99.2	0.650	99.2
1,2,3,4,7,8,9-HpCDF	1.45e5	0.98	NO	1.0128	10.000	39.31	1.000	99.9	0.792	99.9
OCDF	2.89e5	0.88	NO	0.8085	10.000	41.94	1.000	198	0.977	198
13C-2,3,7,8-TCDD	8.82e5	0.75	NO	1.1563	10.000	26.47	1.026	182	91.0	0.290
13C-1,2,3,7,8-PeCDD	6.24e5	0.86	NO	0.8490	10.000	31.45	1.219	193	96.4	0.566
13C-1,2,3,4,7,8-HxCDD	4.07e5	1.31	NO	0.7790	10.000	34.83	1.014	154	76.8	0.848
13C-1,2,3,4,7,8-HxCDD	6.64e5	1.41	NO	1.0167	10.000	34.82	1.017	192	96.1	0.650







Sample	Time	Area	Height	Width	Area%	Height%	Width%	Conc.	%Recl	DL	EMPC
2,3,7,8-TCDD	8.90e4	0.74	NO	0.8883	10.000	26.50	1.001	19.4		0.101	19.4
1,2,3,7,8-PeCDD	2.87e5	0.81	NO	0.9081	10.000	31.47	1.000	101		0.264	101
1,2,3,4,7,8-HxCDD	2.26e5	1.25	NO	1.0334	10.000	34.84	1.000	107		0.334	107
1,2,3,6,7,8-HxCDD	3.10e5	1.27	NO	0.8823	10.000	34.94	1.001	104		0.321	104
1,2,3,7,8,9-HxCDD	2.49e5	1.24	NO	0.8889	10.000	35.22	1.000	105		0.414	105
1,2,3,4,6,7,8-HpCDD	1.62e5	1.03	NO	0.8839	10.000	36.77	1.001	102		0.886	102
OCDD	2.85e5	0.87	NO	0.9138	10.000	41.75	1.000	198		0.925	198
2,3,7,8-TCDF	7.69e4	0.75	NO	0.7510	10.000	25.60	1.001	20.0		0.102	20.0
1,2,3,7,8-PeCDF	4.25e5	1.68	NO	0.8825	10.000	30.17	1.001	99.9		0.314	99.9
2,3,4,7,8-PeCDF	4.38e5	1.53	NO	0.9348	10.000	31.18	1.000	101		0.270	101
1,2,3,4,7,8-HxCDF	2.52e5	1.16	NO	0.8845	10.000	33.98	1.000	100		0.632	100
1,2,3,6,7,8-HxCDF	3.28e5	1.14	NO	0.8892	10.000	34.08	1.000	99.7		0.585	99.7
2,3,4,6,7,8-HxCDF	2.92e5	1.19	NO	0.9341	10.000	34.88	1.001	101		0.650	101
1,2,3,4,6,7,8-HpCDF	1.92e5	0.94	NO	0.8734	10.000	37.38	1.001	99.2		0.680	99.2
1,2,3,4,7,8,9-HxCDF	1.45e5	0.98	NO	1.0128	10.000	38.31	1.000	99.9		0.782	99.9
OCDF	2.89e5	0.88	NO	0.8065	10.000	41.94	1.000	198		0.977	198
13C-2,3,7,8-TCDD	8.82e5	0.75	NO	1.1563	10.000	26.47	1.028	182	91.0	0.290	
13C-1,2,3,7,8-PeCDD	6.24e5	0.88	NO	0.8490	10.000	31.45	1.219	193	96.4	0.586	
13C-1,2,3,4,7,8-HxCDD	4.07e5	1.31	NO	0.7790	10.000	34.83	1.014	154	76.8	0.848	
13C-1,2,3,6,7,8-HxCDD	6.84e5	1.41	NO	1.0167	10.000	34.92	1.017	192	96.1	0.650	



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Last Altered: Thursday, June 18, 2020 14:39:26 Pacific Daylight Time  
Printed: Thursday, June 18, 2020 14:40:29 Pacific Daylight Time

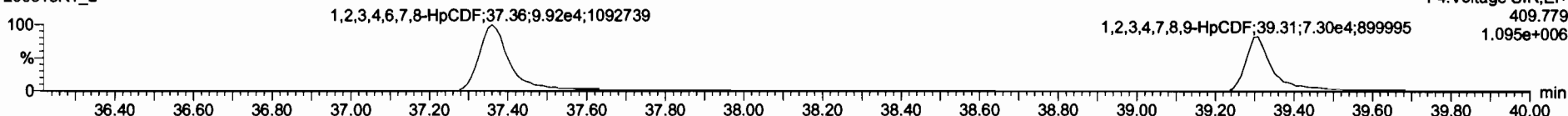
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**1,2,3,4,6,7,8-HpCDF**

200618R1\_2



200618R1\_2

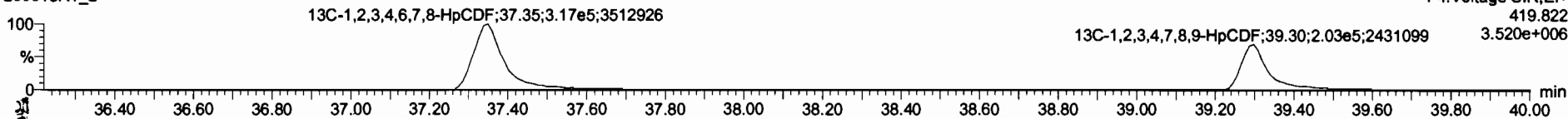


**13C-1,2,3,4,6,7,8-HpCDF**

200618R1\_2

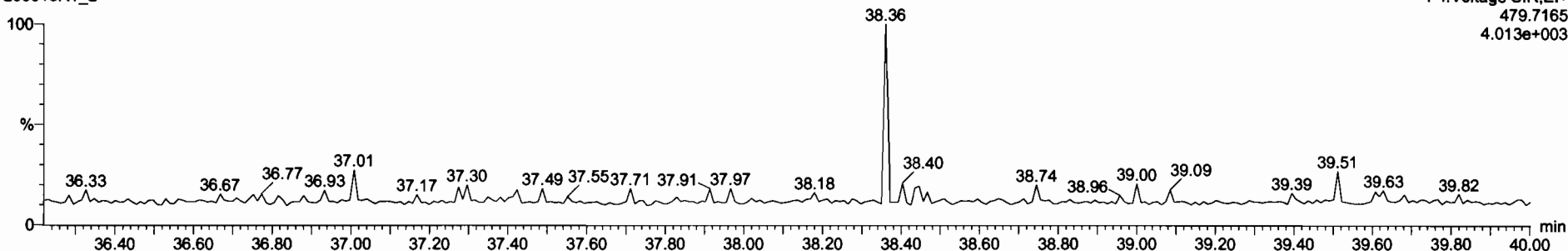


200618R1\_2

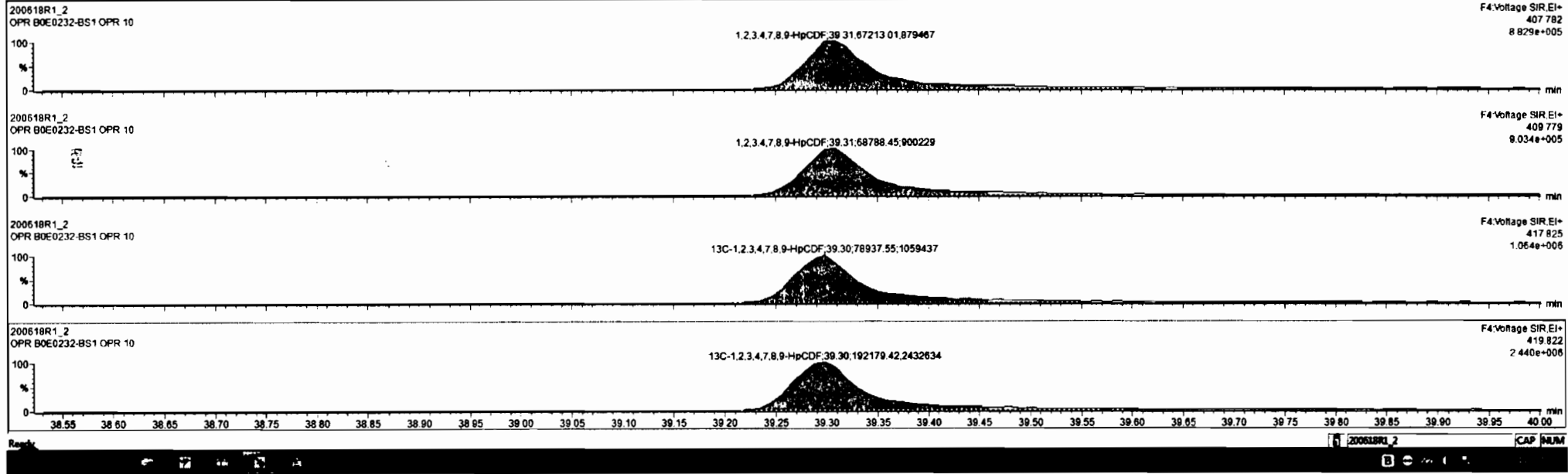


**DPE4**

200618R1\_2



Compound	Conc	Vol	Area	Height	Width	Area%	Height%	Area%	Height%	Area%	Height%
2,3,7,8-TCDD	8.90e4	0.74	NO	0.8983	10.000	26.50	1.001	19.4		0.101	19.4
1,2,3,7,8-PeCDD	2.87e5	0.81	NO	0.9081	10.000	31.47	1.000	101		0.264	101
1,2,3,4,7,8-HxCDD	2.25e5	1.25	NO	1.0334	10.000	34.84	1.000	107		0.334	107
1,2,3,6,7,8-HxCDD	3.10e5	1.27	NO	0.8923	10.000	34.94	1.001	104		0.321	104
1,2,3,7,8,9-HxCDD	2.49e5	1.24	NO	0.8989	10.000	35.22	1.000	105		0.414	105
1,2,3,4,6,7,8-HpCDD	1.82e5	1.03	NO	0.8838	10.000	36.77	1.001	102		0.686	102
OCDD	2.85e5	0.87	NO	0.9136	10.000	41.75	1.000	196		0.925	196
2,3,7,8-TCDF	7.86e4	0.75	NO	0.7510	10.000	25.60	1.001	20.0		0.102	20.0
1,2,3,7,8-PeCDF	4.25e5	1.06	NO	0.8925	10.000	30.17	1.001	99.9		0.314	99.9
2,3,4,7,8-PeCDF	4.38e5	1.53	NO	0.8348	10.000	31.16	1.000	101		0.270	101
1,2,3,4,7,8-HxCDF	2.52e5	1.18	NO	0.8845	10.000	33.98	1.000	100		0.632	100
1,2,3,6,7,8-HxCDF	3.28e5	1.14	NO	0.8892	10.000	34.08	1.000	99.7		0.585	99.7
2,3,4,6,7,8-HxCDF	2.92e5	1.19	NO	0.9541	10.000	34.68	1.001	101		0.650	101
1,2,3,7,8,9-HxCDF	2.12e5	1.22	NO	0.8707	10.000	35.58	1.000	98.7		0.996	98.7
1,2,3,4,6,7,8-HpCDF	1.82e5	0.94	NO	0.8734	10.000	37.36	1.001	99.2		0.680	99.2
OCDF	2.85e5	0.86	NO	0.9085	10.000	41.94	1.000	198		0.977	198
13C-2,3,7,8-TCDD	8.82e5	0.75	NO	1.1563	10.000	26.47	1.026	182	91.0	0.290	
13C-1,2,3,7,8-PeCDD	6.24e5	0.86	NO	0.8490	10.000	31.45	1.219	193	96.4	0.566	
13C-1,2,3,4,7,8-HxCDD	4.87e5	1.31	NO	0.7790	10.000	34.83	1.014	154	76.8	0.848	
13C-1,2,3,6,7,8-HxCDD	6.64e5	1.41	NO	1.0167	10.000	34.92	1.017	192	96.1	0.650	



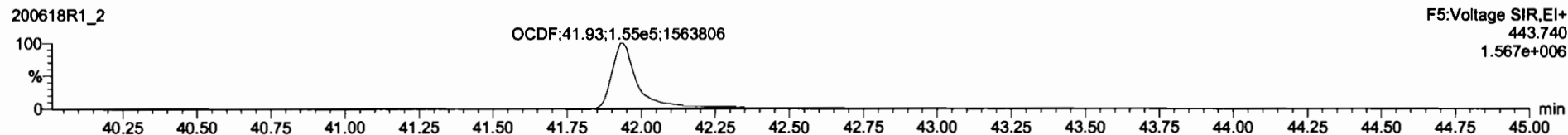
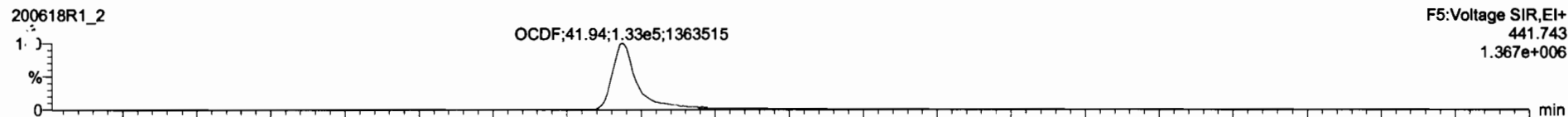
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Last Altered: Thursday, June 18, 2020 14:39:26 Pacific Daylight Time

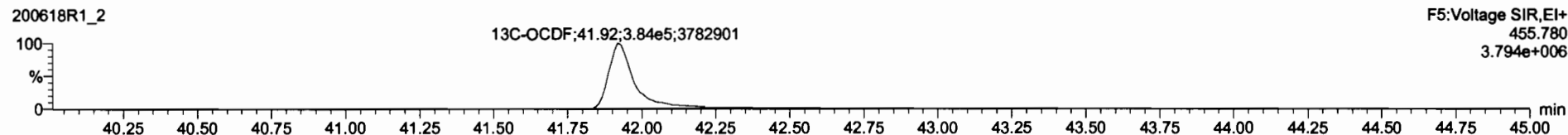
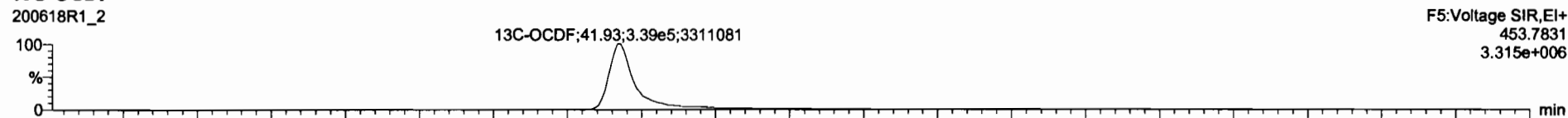
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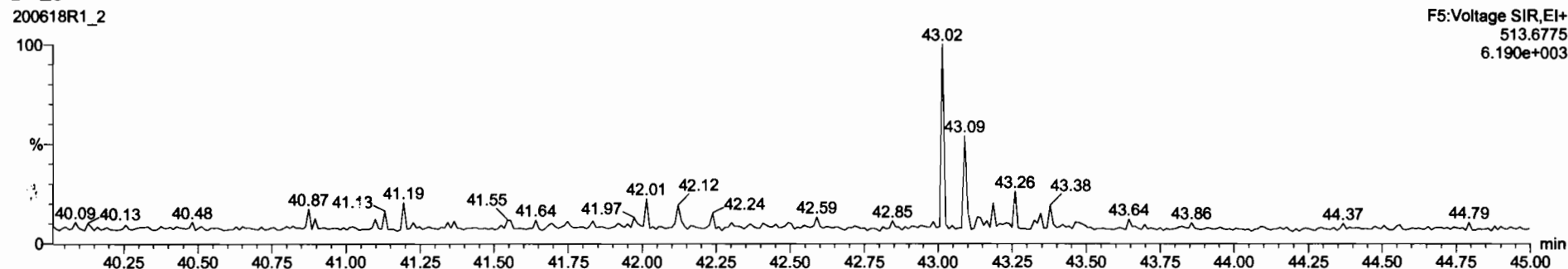
**OCDF**



**13C-OCDF**



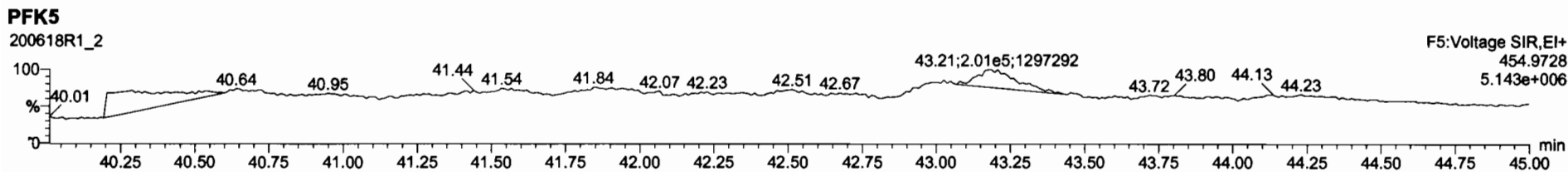
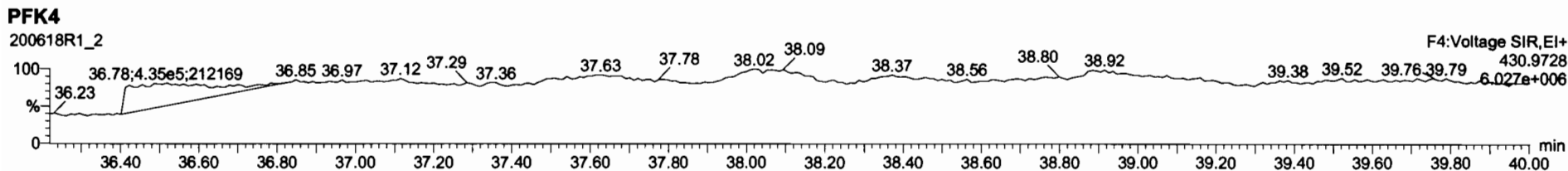
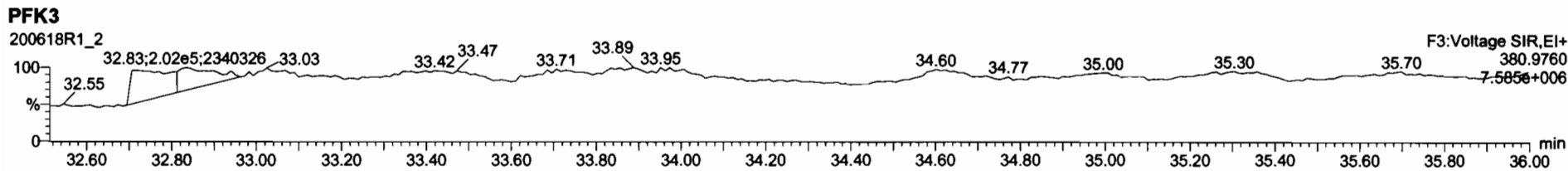
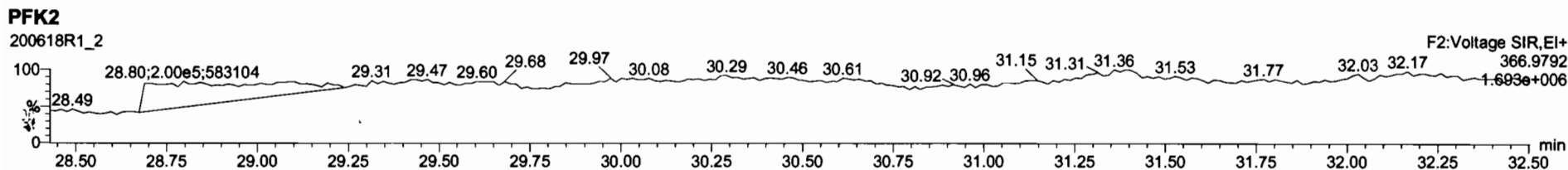
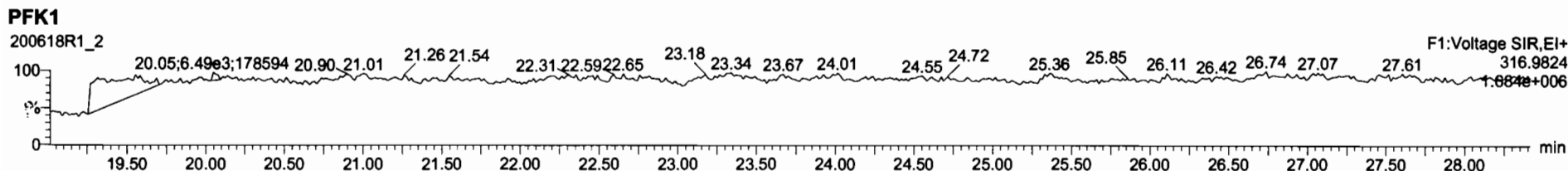
**DPE5**



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Dataset: U:\VG12.PRO\Results\200624R1\200624R1-4.qld

Last Altered: Wednesday, June 24, 2020 12:10:45 PM Pacific Daylight Time  
Printed: Tuesday, June 30, 2020 9:16:15 AM Pacific Daylight Time

HW 06/30/2020

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 07/10/2020

Name: 200624R1\_4, Date: 24-Jun-2020, Time: 11:24:26, ID: B0F0186-BLK1 Method Blank 1, Description: Method Blank

Peak	Ret	n/y	RRF	w/w0	Pred. RT	RRF	Pred. RRT	RRF	Area	Height	Width		
1	2,3,7,8-TCDD	NO	0.888	1.000	26.485		1.001				0.857		
2	1,2,3,7,8-PeCDD	NO	0.908	1.000	31.457		1.001				0.764		
3	1,2,3,4,7,8-HxCDD	NO	1.03	1.000	34.825		1.000				0.973		
4	1,2,3,6,7,8-HxCDD	NO	0.892	1.000	34.921		1.000				0.977		
5	1,2,3,7,8,9-HxCDD	NO	0.887	1.000	35.219		1.000				1.18		
6	1,2,3,4,6,7,8-HpCDD	NO	0.864	1.000	38.756		1.000				1.46		
7	OCDD	NO	0.914	1.000	41.726		1.000				2.76		
8	2,3,7,8-TCDF	NO	0.751	1.000	25.596		1.001				0.615		
9	1,2,3,7,8-PeCDF	NO	0.893	1.000	30.175		1.001				0.611		
10	2,3,4,7,8-PeCDF	NO	0.935	1.000	31.161		1.001				0.584		
11	1,2,3,4,7,8-HxCDF	NO	0.884	1.000	33.941		1.000				0.720		
12	1,2,3,6,7,8-HxCDF	NO	0.889	1.000	34.068		1.000				0.637		
13	2,3,4,6,7,8-HxCDF	NO	0.934	1.000	34.678		1.001				0.757		
14	1,2,3,7,8,9-HxCDF	NO	0.871	1.000	35.560		1.000				1.19		
15	1,2,3,4,6,7,8-HpCDF	NO	0.873	1.000	37.386		1.001				1.00		
16	1,2,3,4,7,8,9-HpCDF	NO	1.01	1.000	39.298		1.000				1.19		
17	OCDF	NO	0.806	1.000	41.918		1.000				2.13		
18	13C-2,3,7,8-TCDD	8.93e5	0.77	NO	1.16	1.000	26.476	26.45	1.026	1.026	1758.4	87.9	2.61
19	13C-1,2,3,7,8-PeCDD	6.66e5	0.63	NO	0.849	1.000	31.656	31.43	1.227	1.219	1784.1	89.2	3.59
20	13C-1,2,3,4,7,8-HxCDD	4.23e5	1.26	NO	0.779	1.000	34.819	34.81	1.014	1.014	1615.9	80.8	5.28
21	13C-1,2,3,6,7,8-HxCDD	5.44e5	1.24	NO	1.02	1.000	34.932	34.92	1.017	1.017	1592.4	79.6	4.04
22	13C-1,2,3,7,8,9-HxCDD	4.79e5	1.22	NO	0.903	1.000	35.204	35.21	1.025	1.025	1580.1	79.0	4.55
23	13C-1,2,3,4,6,7,8-HpCDD	3.29e5	1.06	NO	0.689	1.000	38.726	38.74	1.128	1.128	1420.9	71.0	4.66
24	13C-OCDD	5.40e5	0.89	NO	0.652	1.000	41.748	41.73	1.216	1.215	2465.1	61.6	5.02
25	13C-2,3,7,8-TCDF	1.08e6	0.78	NO	1.06	1.000	25.519	25.57	0.989	0.991	1578.5	78.9	4.31
26	13C-1,2,3,7,8-PeCDF	9.49e5	1.58	NO	0.838	1.000	30.041	30.15	1.165	1.169	1753.2	87.7	6.43
27	13C-2,3,4,7,8-PeCDF	9.23e5	1.59	NO	0.817	1.000	30.993	31.13	1.202	1.207	1749.1	87.5	6.60
28	13C-1,2,3,4,7,8-HxCDF	5.53e5	0.50	NO	1.01	1.000	33.950	33.94	0.989	0.988	1636.2	81.8	6.84
29	13C-1,2,3,6,7,8-HxCDF	6.38e5	0.51	NO	1.17	1.000	34.074	34.06	0.992	0.992	1628.3	81.4	5.91
30	13C-2,3,4,6,7,8-HxCDF	5.57e5	0.52	NO	1.02	1.000	34.647	34.64	1.009	1.009	1624.3	81.2	6.75
31	13C-1,2,3,7,8,9-HxCDF	4.49e5	0.53	NO	0.860	1.000	35.547	35.56	1.035	1.036	1556.9	77.8	8.02

Dataset: U:\VG12.PRO\Results\200624R1\200624R1-4.qld

Last Altered: Wednesday, June 24, 2020 12:10:45 PM Pacific Daylight Time

Printed: Tuesday, June 30, 2020 9:16:15 AM Pacific Daylight Time

Name: 200624R1\_4, Date: 24-Jun-2020, Time: 11:24:26, ID: B0F0186-BLK1 Method Blank 1, Description: Method Blank

Sample	Resp	RA	n/y	RRR	W/S	Peak	Area	Height	Area	Height	Area	Height
32 13C-1,2,3,4,6,7,8-HpCDF	3.79e5	0.43	NO	0.774	1.000	37.295	37.35	1.086	1.088	1457.5	72.9	5.21
33 13C-1,2,3,4,7,8,9-HpCDF	2.49e5	0.43	NO	0.521	1.000	39.324	39.30	1.145	1.145	1426.2	71.3	7.74
34 13C-OCDF	6.13e5	0.89	NO	0.746	1.000	41.920	41.92	1.221	1.221	2446.9	61.2	4.18
35 37Cl-2,3,7,8-TCDD	3.18e5			1.04	1.000	26.507	26.48	1.028	1.027	698.09	87.3	1.14
36 13C-1,2,3,4-TCDD	8.79e5	0.77	NO	1.00	1.000	25.890	25.80	1.000	1.000	2000.0	100	3.02
37 13C-1,2,3,4-TCDF	1.29e6	0.78	NO	1.00	1.000	24.360	24.12	1.000	1.000	2000.0	100	4.57
38 13C-1,2,3,4,6,9-HxCDF	6.71e5	0.50	NO	1.00	1.000	34.420	34.33	1.000	1.000	2000.0	100	6.89
39 Total Tetra-Dioxins				0.888	1.000	24.620		0.000				0.527
40 Total Penta-Dioxins				0.908	1.000	29.960		0.000				0.367
41 Total Hexa-Dioxins				0.892	1.000	33.635		0.000				0.589
42 Total Hepta-Dioxins				0.864	1.000	37.640		0.000				0.870
43 Total Tetra-Furans				0.751	1.000	23.610		0.000				0.282
44 1st Func. Penta-Furans				0.893	1.000	27.580		0.000				0.171
45 Total Penta-Furans				0.893	1.000	29.275		0.000				0.298
46 Total Hexa-Furans				0.934	1.000	33.555		0.000				0.391
47 Total Hepta-Furans				0.873	1.000	37.835		0.000				0.648



Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200624R1\200624R1-4.qld

Last Altered: Wednesday, June 24, 2020 12:10:45 PM Pacific Daylight Time

Printed: Tuesday, June 30, 2020 9:16:15 AM Pacific Daylight Time

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

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

Name: 200624R1\_4, Date: 24-Jun-2020, Time: 11:24:26, ID: B0F0186-BLK1 Method Blank 1, Description: Method Blank

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Qty	Resp	Conc	EMPC	DL

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Qty	Resp	Conc	EMPC	DL

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Qty	Resp	Conc	EMPC	DL

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Qty	Resp	Conc	EMPC	DL

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Qty	Resp	Conc	EMPC	DL

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Qty	Resp	Conc	EMPC	DL

Dataset: U:\VG12.PRO\Results\200624R1\200624R1-4.qld

Last Altered: Wednesday, June 24, 2020 12:10:45 PM Pacific Daylight Time  
Printed: Tuesday, June 30, 2020 9:16:15 AM Pacific Daylight Time

Name: 200624R1\_4, Date: 24-Jun-2020, Time: 11:24:26, ID: B0F0186-BLK1 Method Blank 1, Description: Method Blank

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt	Resp	Conc	EMPC
------	----	-----------	-----------	---------	---------	----	----	------	------	------

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt	Resp	Conc	EMPC
------	----	-----------	-----------	---------	---------	----	----	------	------	------

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt	Resp	Conc	EMPC
------	----	-----------	-----------	---------	---------	----	----	------	------	------

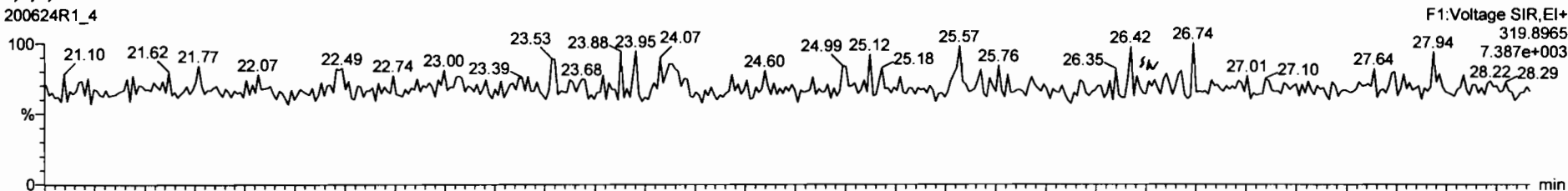
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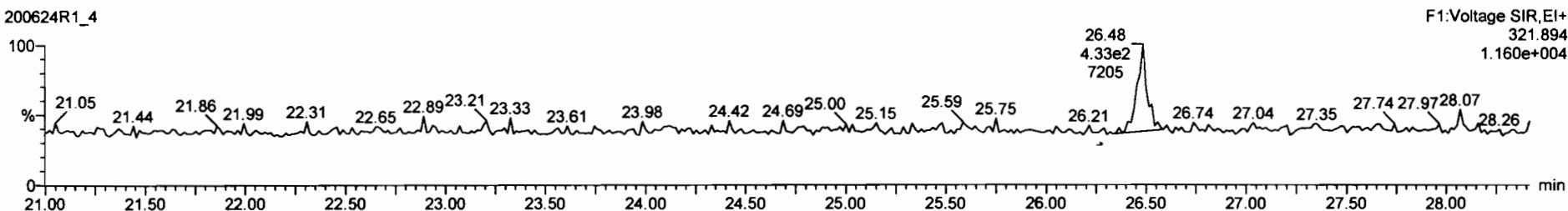
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2,3,7,8-TCDD

200624R1\_4

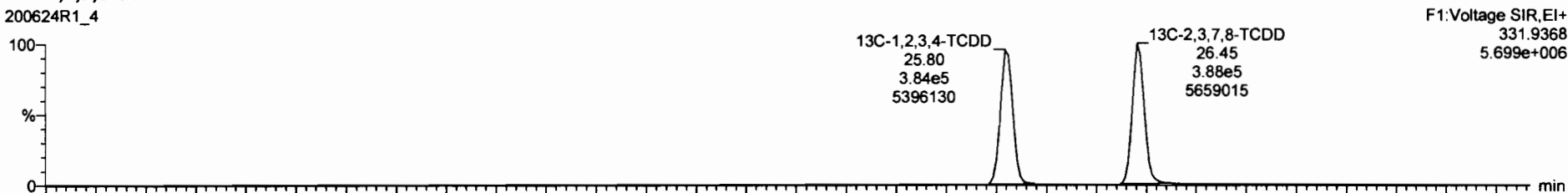


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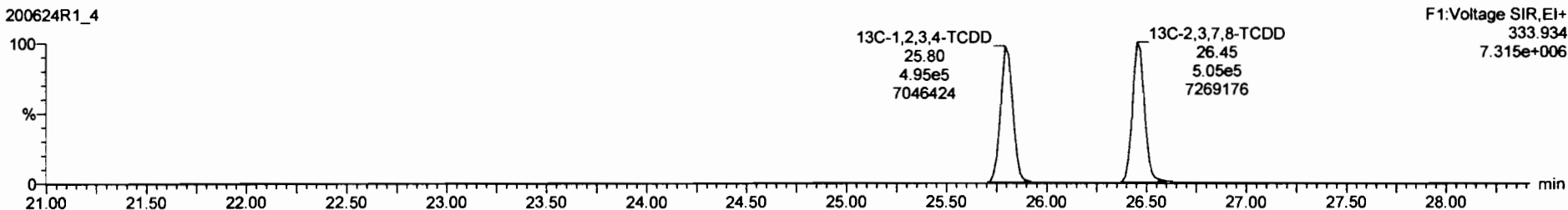


13C-2,3,7,8-TCDD

200624R1\_4



200624R1\_4



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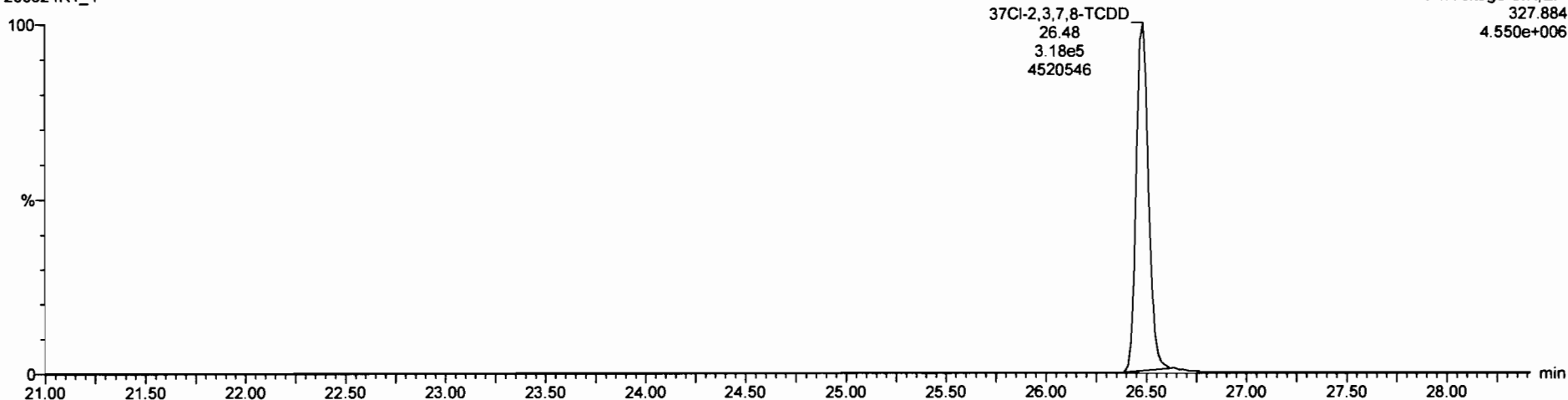
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37Cl-2,3,7,8-TCDD

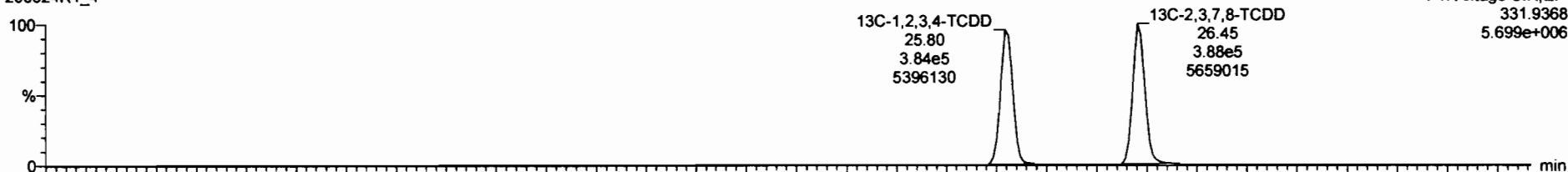
200624R1\_4



F1:Voltage SIR,EI+  
327.884  
4.550e+006

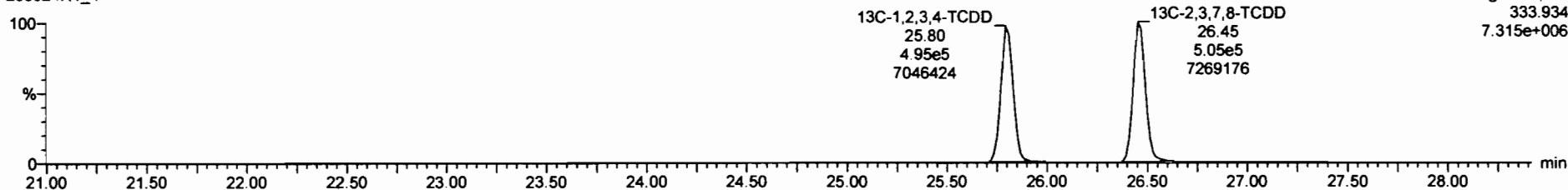
13C-1,2,3,4-TCDD

200624R1\_4



F1:Voltage SIR,EI+  
331.9368  
5.699e+006

200624R1\_4



F1:Voltage SIR,EI+  
333.934  
7.315e+006

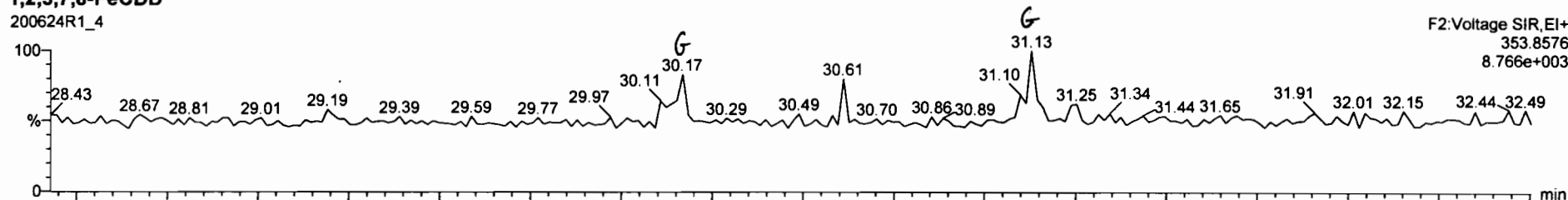
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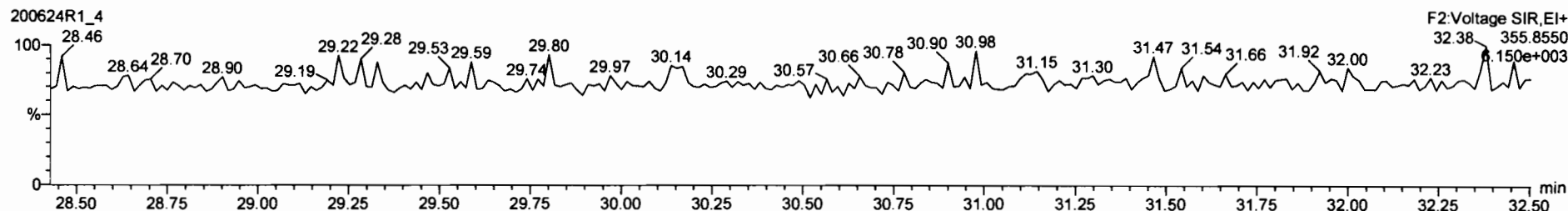
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1,2,3,7,8-PeCDD

200624R1\_4

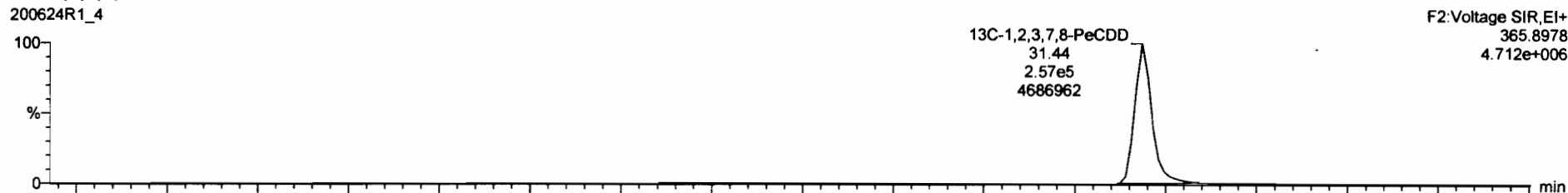


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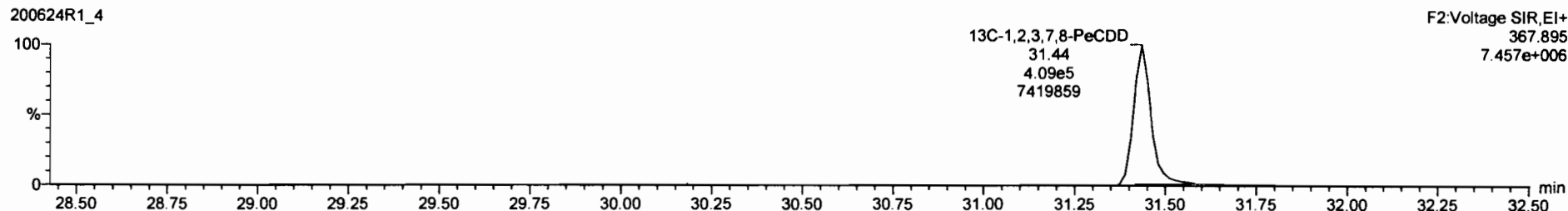


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200624R1\_4



200624R1\_4



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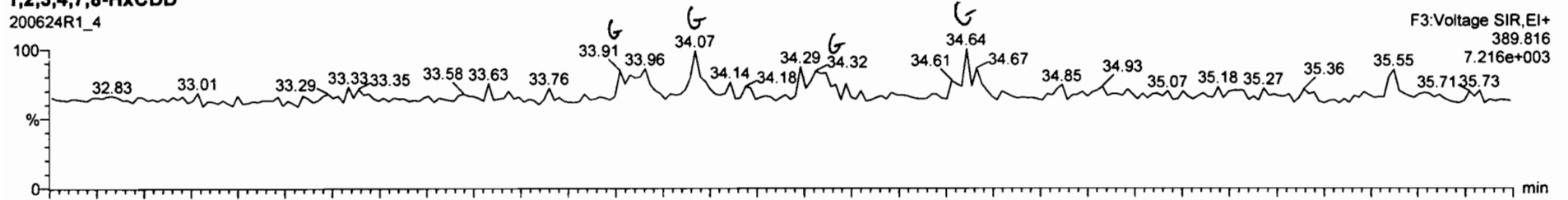
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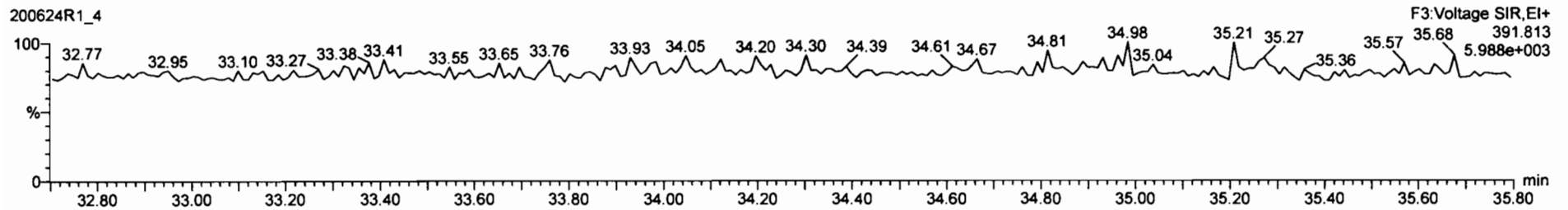
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1,2,3,4,7,8-HxCDD

200624R1\_4



200624R1\_4

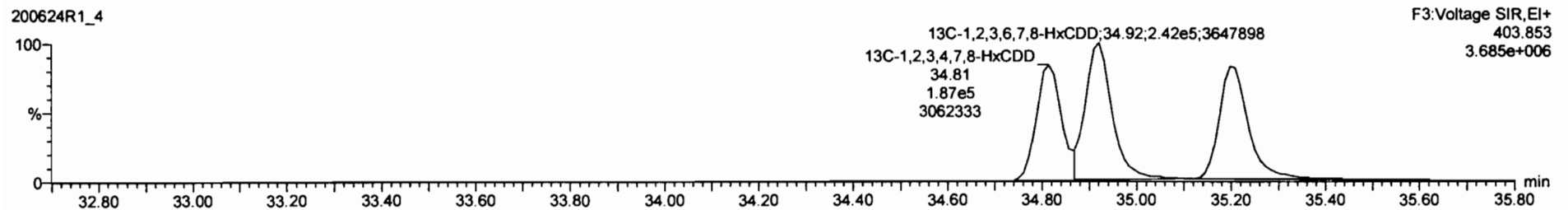


13C-1,2,3,4,7,8-HxCDD

200624R1\_4



200624R1\_4



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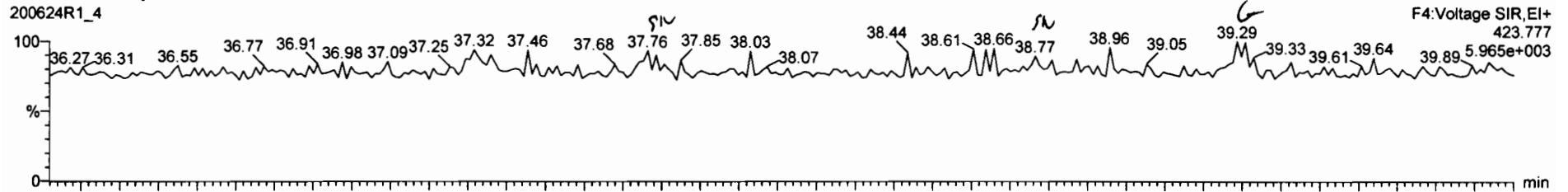
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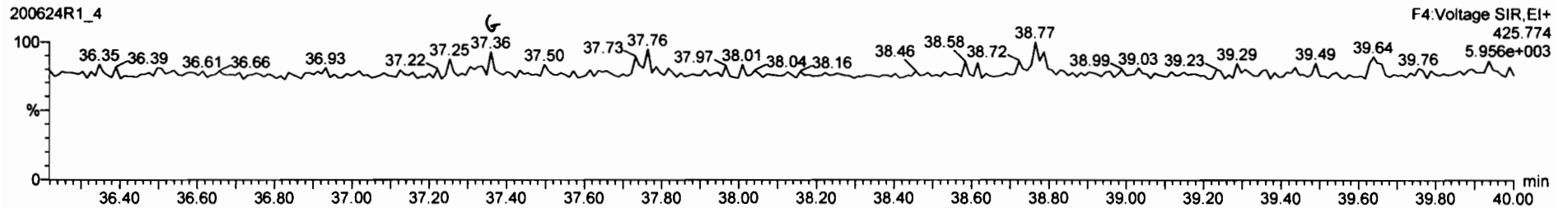
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1,2,3,4,6,7,8-HpCDD

200624R1\_4

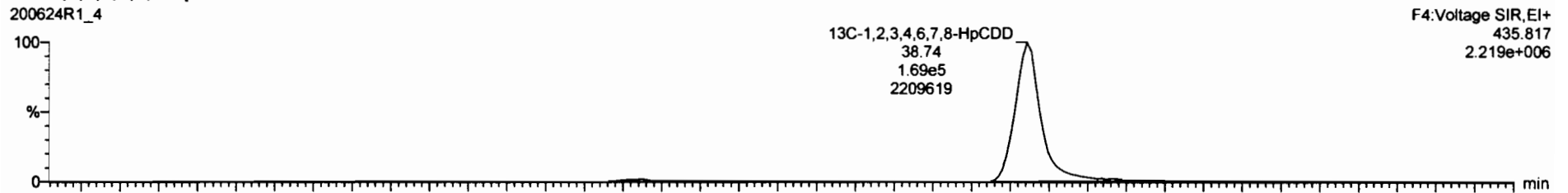


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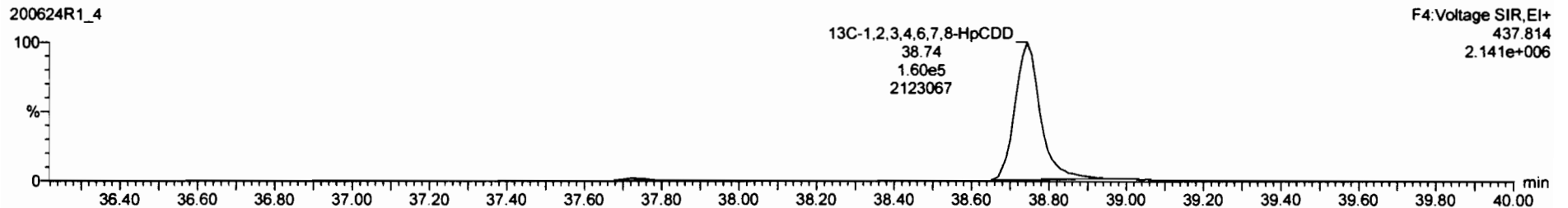


13C-1,2,3,4,6,7,8-HpCDD

200624R1\_4

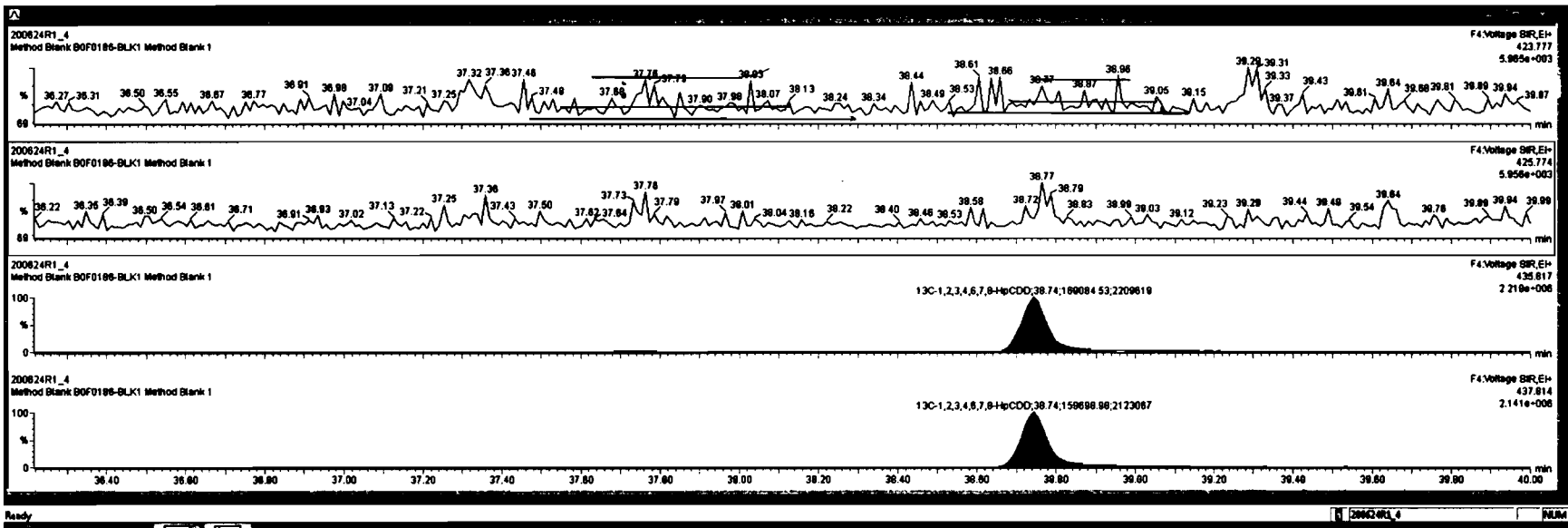


200624R1\_4



Total Tri-Clouhne	0.8883	1.000	24.82			0.527
Total Penta-Clouhne	0.8829	1.000	28.88			0.387
Total Hepta-Clouhne	0.8823	1.000	33.83			0.598
Total Tri-Fluore	0.7910	1.000	23.81			0.282
1st Fluor. Penta-Fluore	0.8825	1.000	27.59			0.171
Total Penta-Fluore	0.8825	1.000	28.27			0.288
Total Hepta-Fluore	0.8341	1.000	33.58			0.381
Total Nona-Fluore	0.8734	1.000	37.83			0.648
PFK1						

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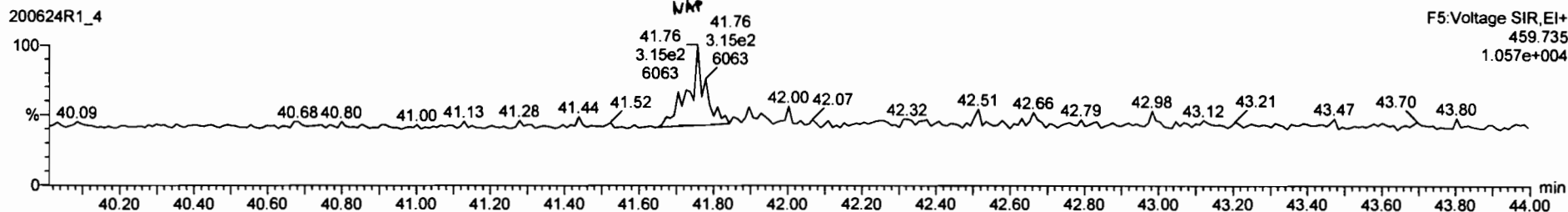
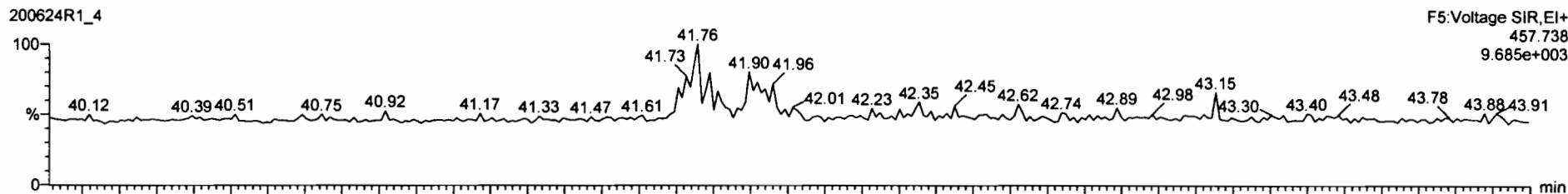
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Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time

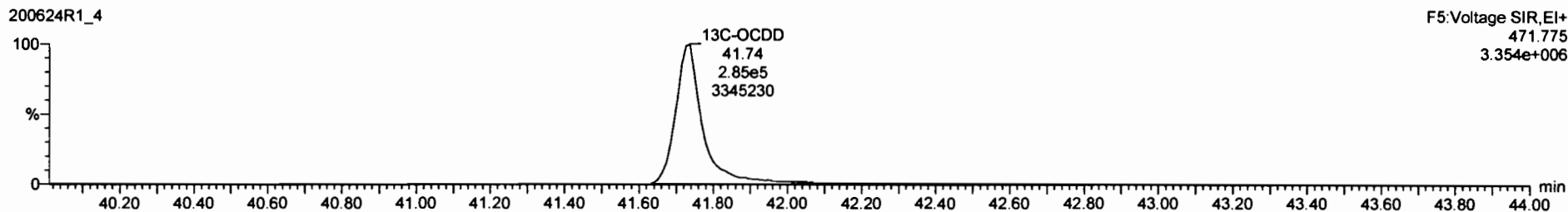
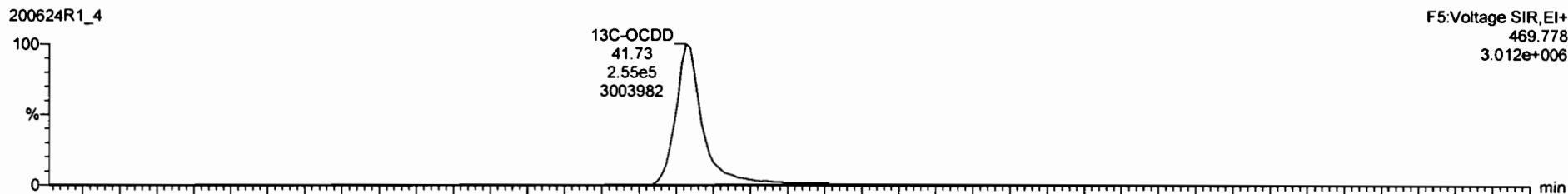
Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

Name: 200624R1\_4, Date: 24-Jun-2020, Time: 11:24:26, ID: B0F0186-BLK1 Method Blank 1, Description: Method Blank

OCDD



13C-OCDD

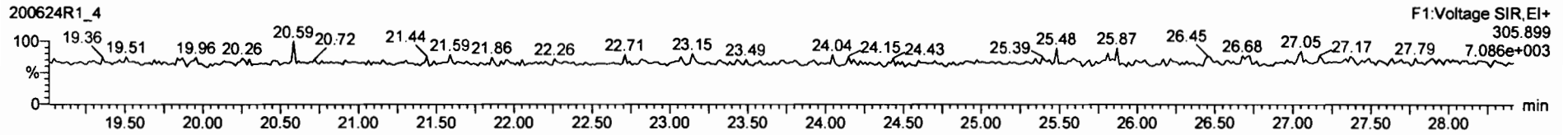
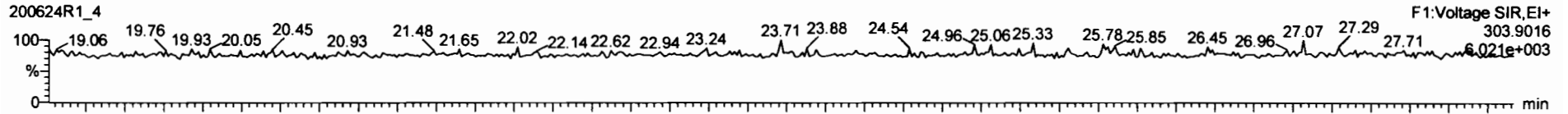


Dataset: Untitled

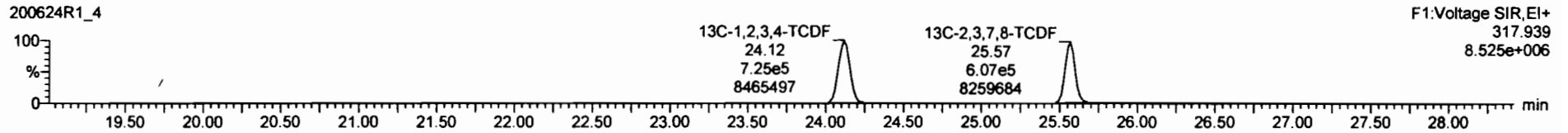
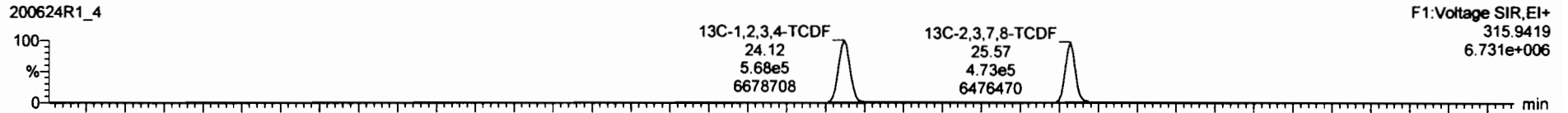
Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time  
Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

Name: 200624R1\_4, Date: 24-Jun-2020, Time: 11:24:26, ID: B0F0186-BLK1 Method Blank 1, Description: Method Blank

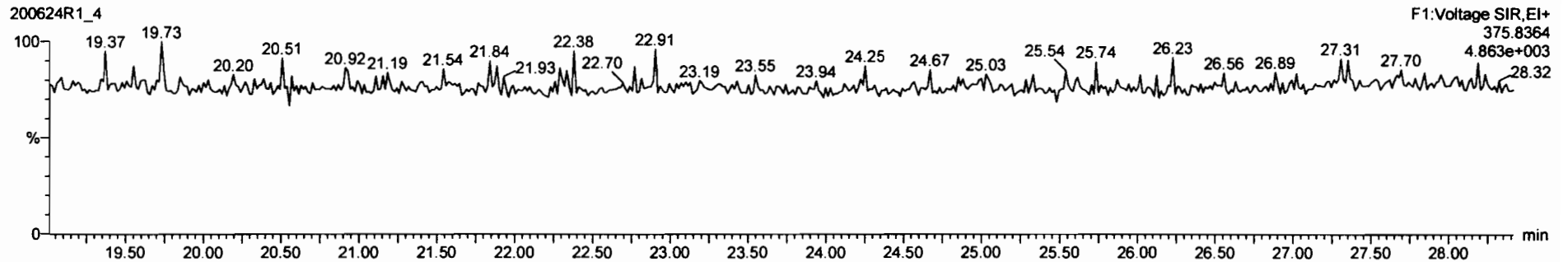
**2,3,7,8-TCDF**

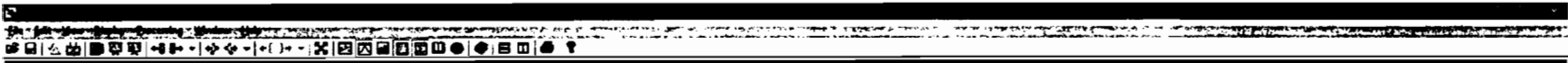


**13C-2,3,7,8-TCDF**



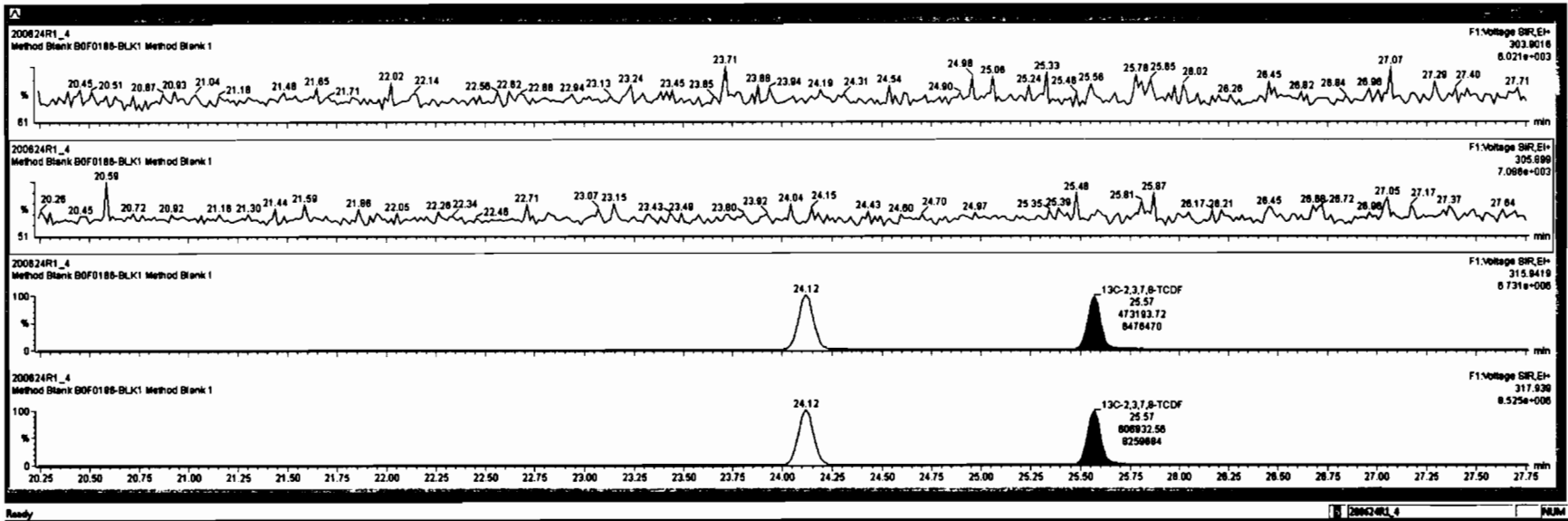
**DPE1**





1st Func: Para-Furane	0.8625	1.000	27.59		0.171
Total Para-Furane	0.8625	1.000	28.27		0.298
Total Hexa-Furane	0.8341	1.000	33.58		0.391
Total Hepta-Furane	0.8734	1.000	37.83		0.648
PFK1					
PFK2					
PFK3					
PFK4					
PFK5					

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Dataset: Untitled

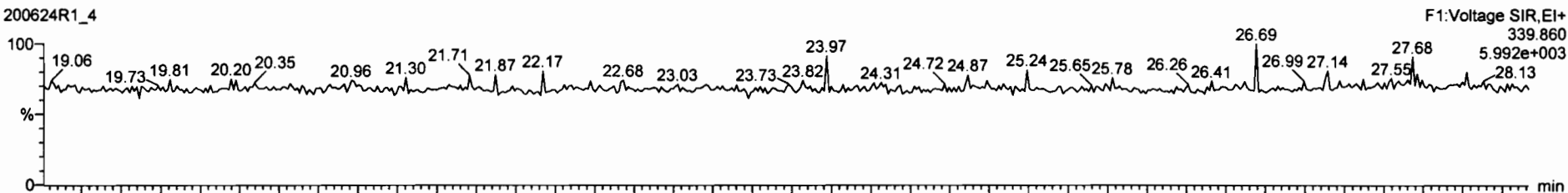
Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time

Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

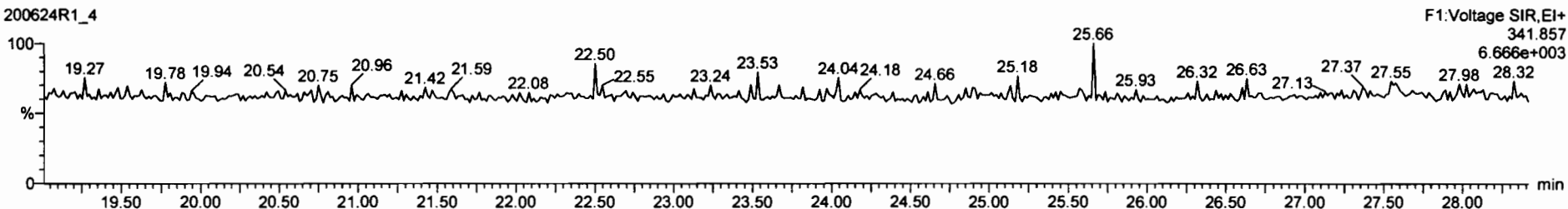
Name: 200624R1\_4, Date: 24-Jun-2020, Time: 11:24:26, ID: B0F0186-BLK1 Method Blank 1, Description: Method Blank

1st Func. Penta-Furans

200624R1\_4

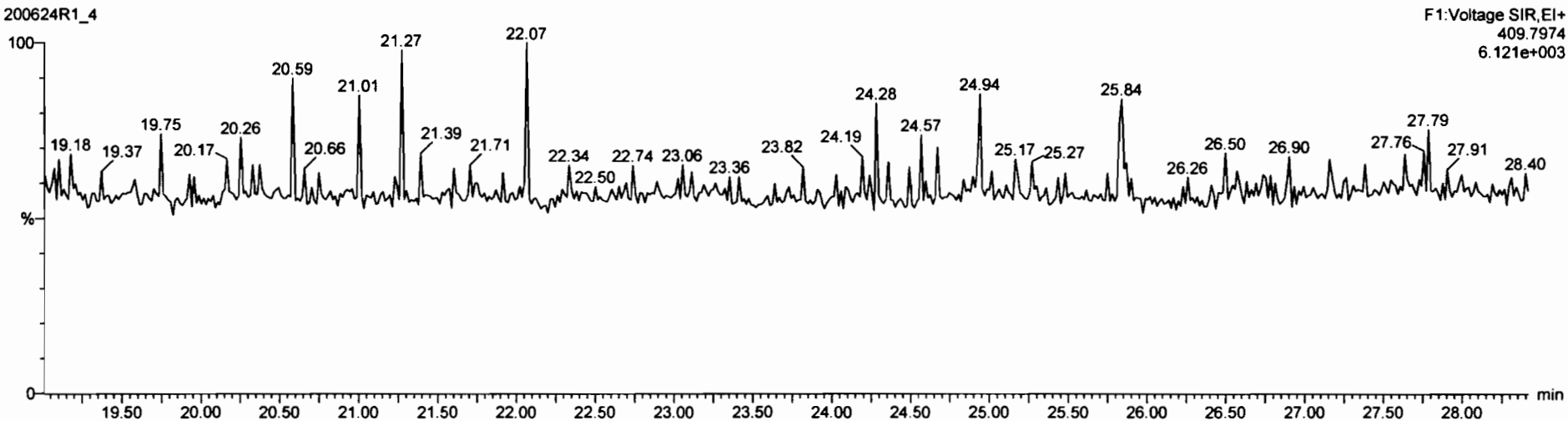


200624R1\_4



DPE6

200624R1\_4

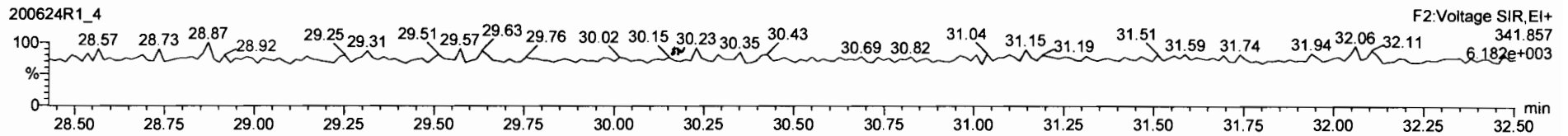
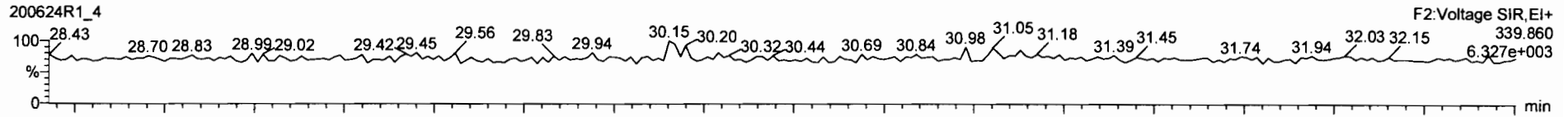


Dataset: Untitled

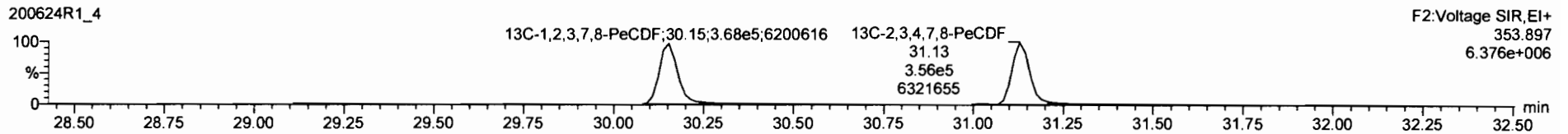
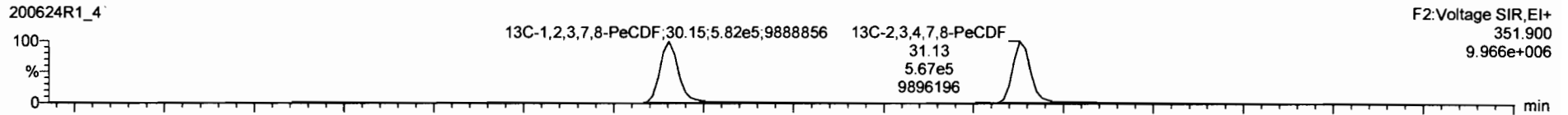
Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time  
Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

Name: 200624R1\_4, Date: 24-Jun-2020, Time: 11:24:26, ID: B0F0186-BLK1 Method Blank 1, Description: Method Blank

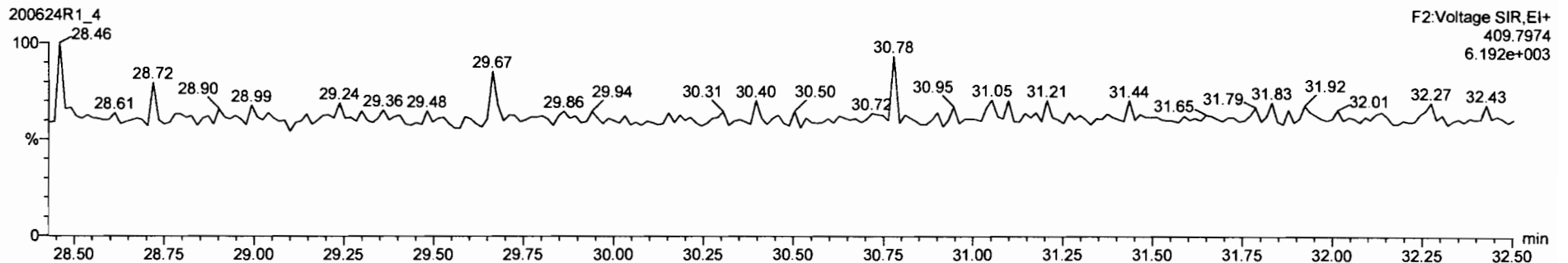
**1,2,3,7,8-PeCDF**

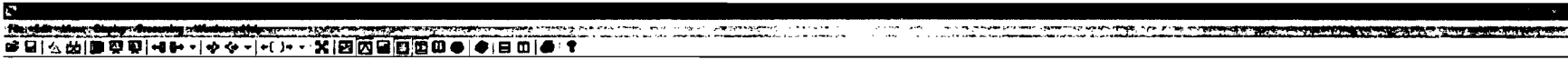


**13C-1,2,3,7,8-PeCDF**

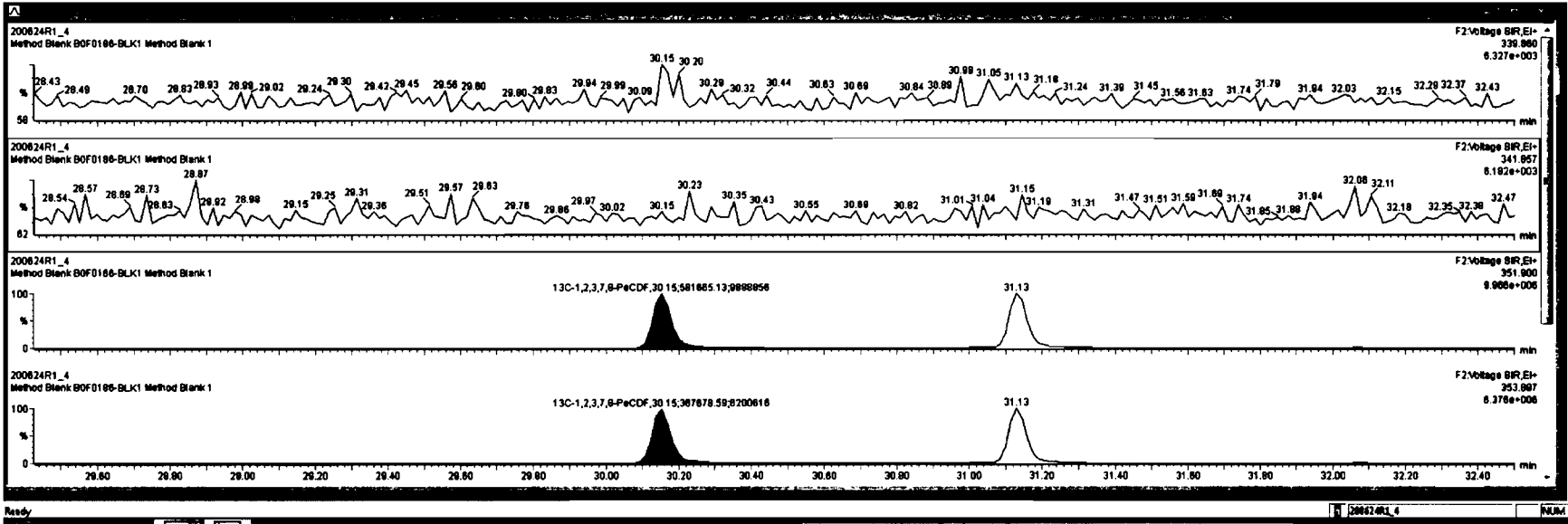


**DPE2**





Total Toluene-Furans		0.7510	1.000	23.91		0.262
Total Puro-Furans		0.8625	1.000	27.59		0.171
Total Hexa-Furans		0.9341	1.000	33.66		0.391
Total Hepta-Furans		0.8734	1.000	37.83		0.648
PFK1						
PFK2						
PFK3						
PFK4						
PFK5						

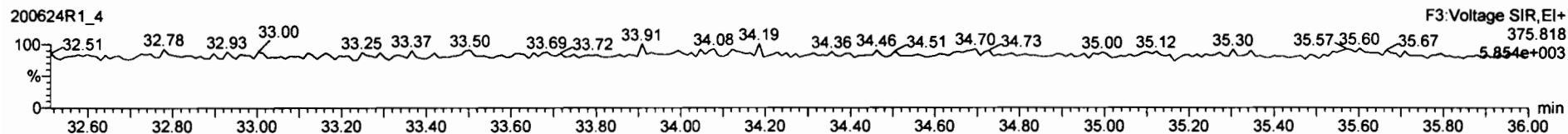
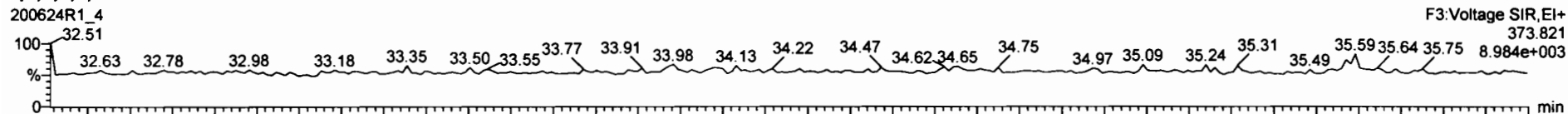



Dataset: Untitled

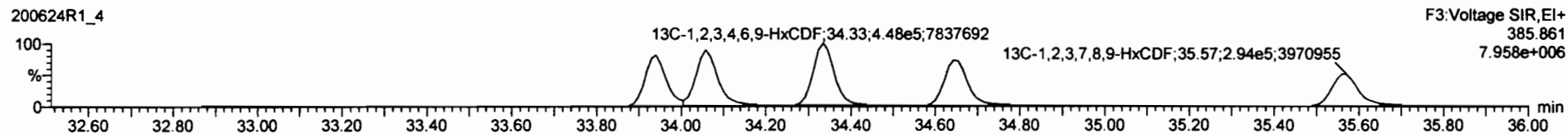
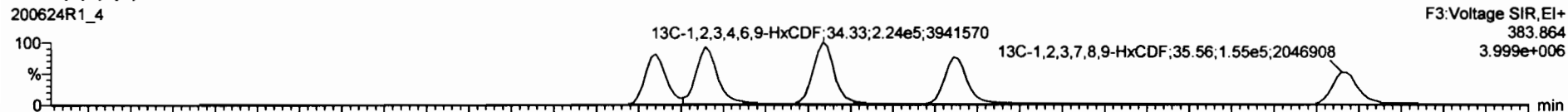
Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time  
Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

Name: 200624R1\_4, Date: 24-Jun-2020, Time: 11:24:26, ID: B0F0186-BLK1 Method Blank 1, Description: Method Blank

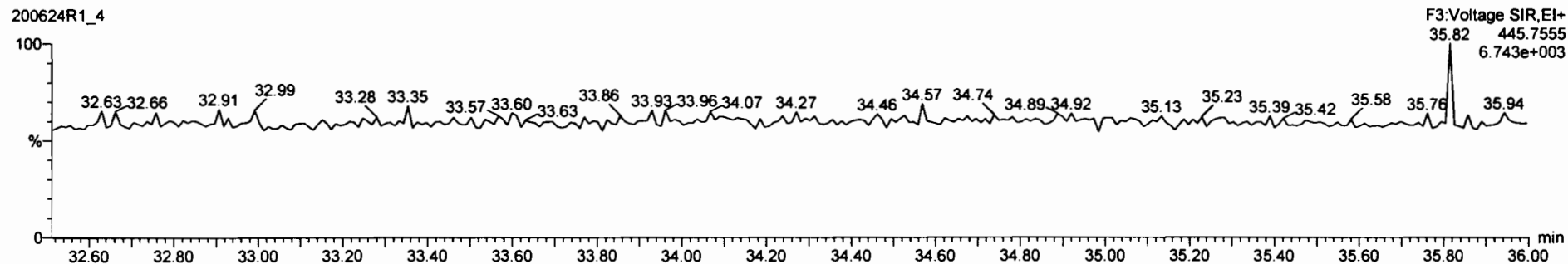
**1,2,3,4,7,8-HxCDF**



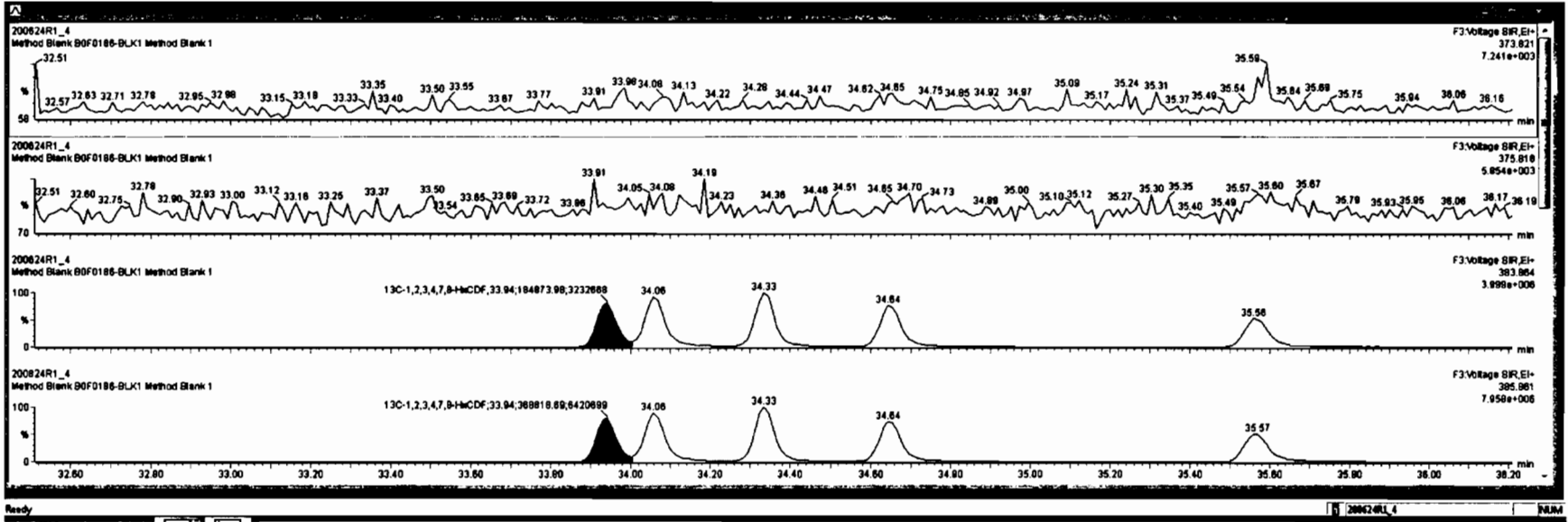
**13C-1,2,3,4,7,8-HxCDF**



**DPE3**



Total Toluene-Furans	1.7510	1.000	22.81	0.282
Total Furans-Penta-Furans	0.8825	1.000	27.88	0.171
Total Penta-Furans	0.8825	1.000	28.27	0.280
Total Hepta-Furans	0.8734	1.000	37.83	0.848
PFK1				
PFK2				
PFK3				
PFK4				
PFK5				



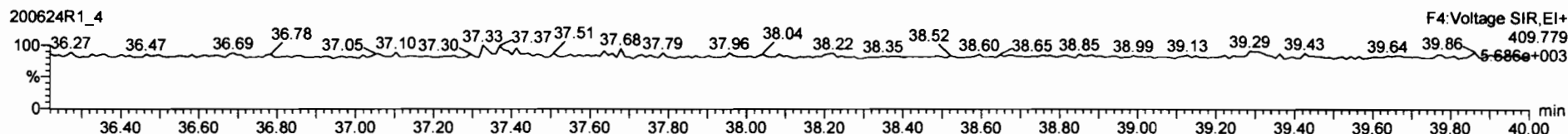
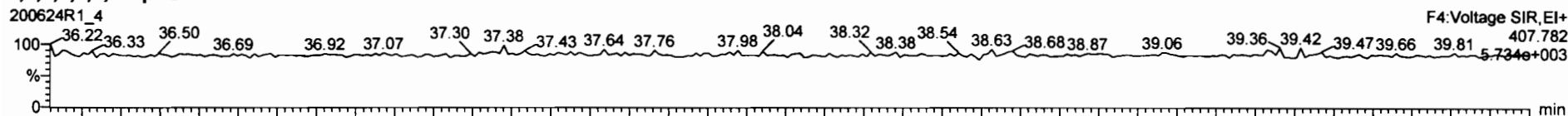


Dataset: Untitled

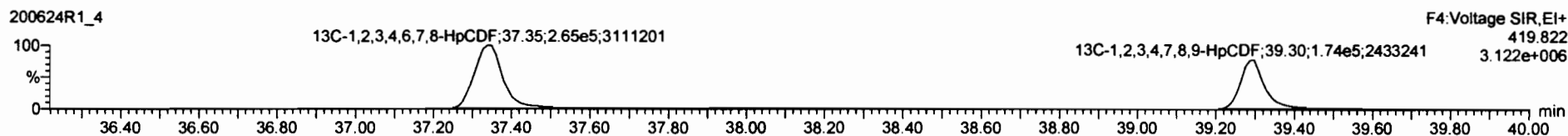
Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time  
Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

Name: 200624R1\_4, Date: 24-Jun-2020, Time: 11:24:26, ID: B0F0186-BLK1 Method Blank 1, Description: Method Blank

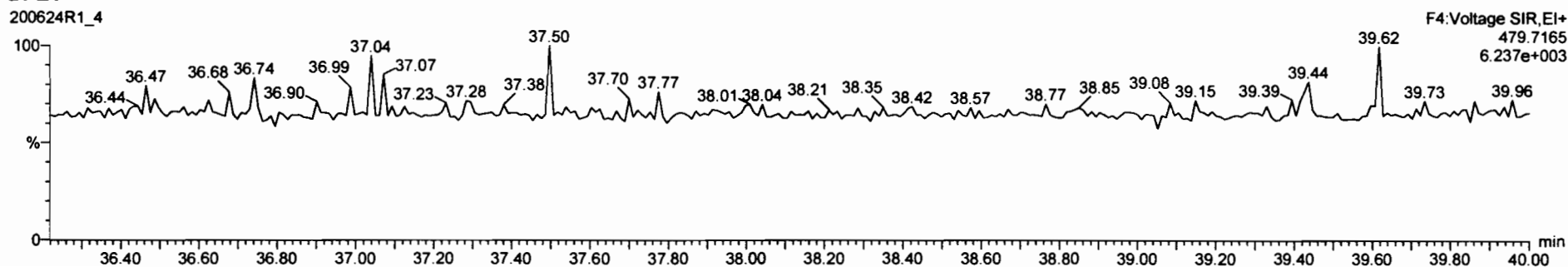
**1,2,3,4,6,7,8-HpCDF**



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



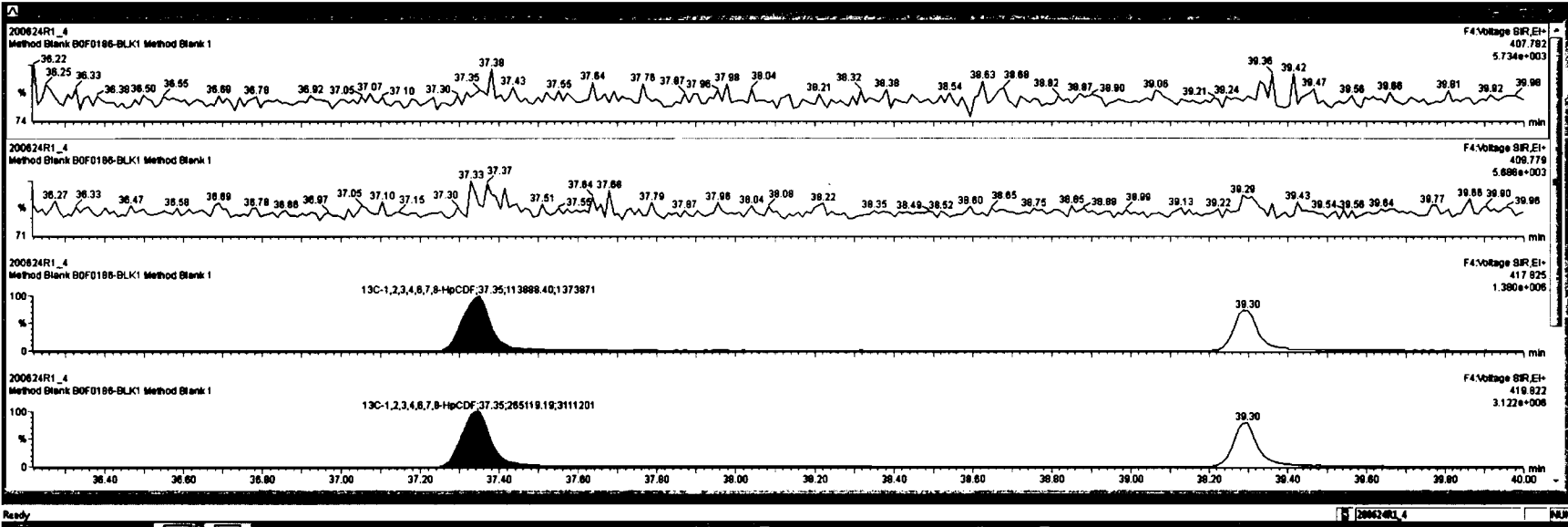
**DPE4**





Total Toluene	0.7510	1.000	23.81			0.262
Total Ethyl Benzene	0.8625	1.000	27.58			0.171
Total Xylene	0.8625	1.000	28.27			0.288
Total Hexafluore	0.8341	1.000	33.58			0.391
PPK1						
PPK2						
PPK3						
PPK4						
PPK5						

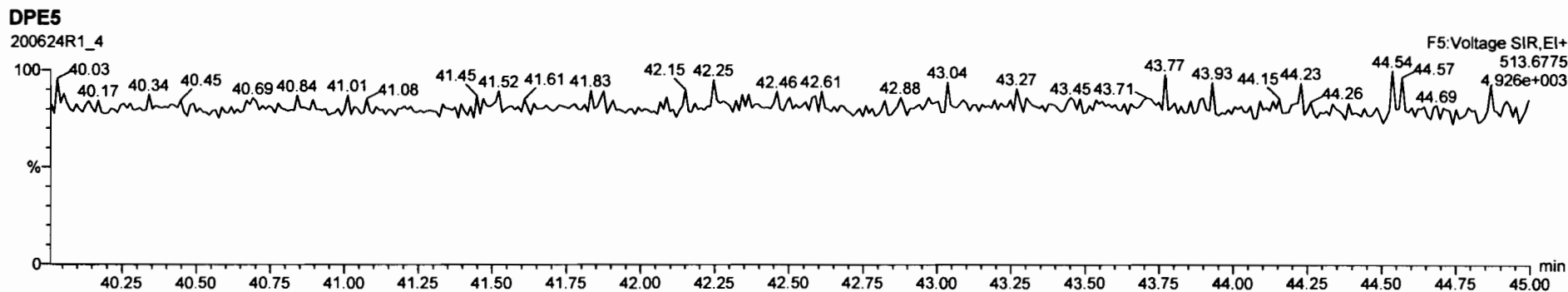
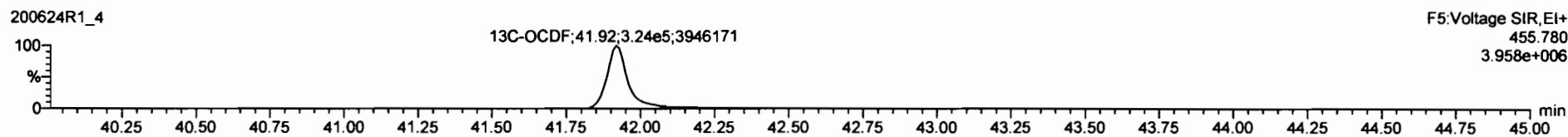
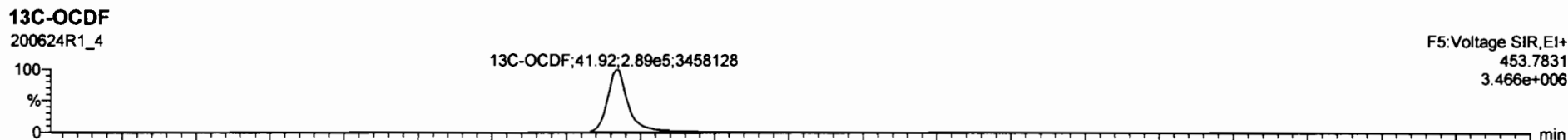
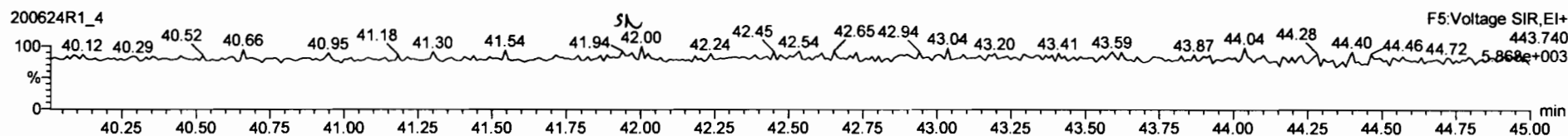
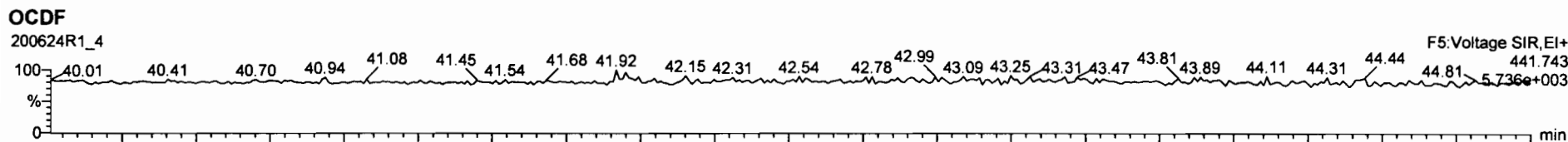
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Dataset: Untitled

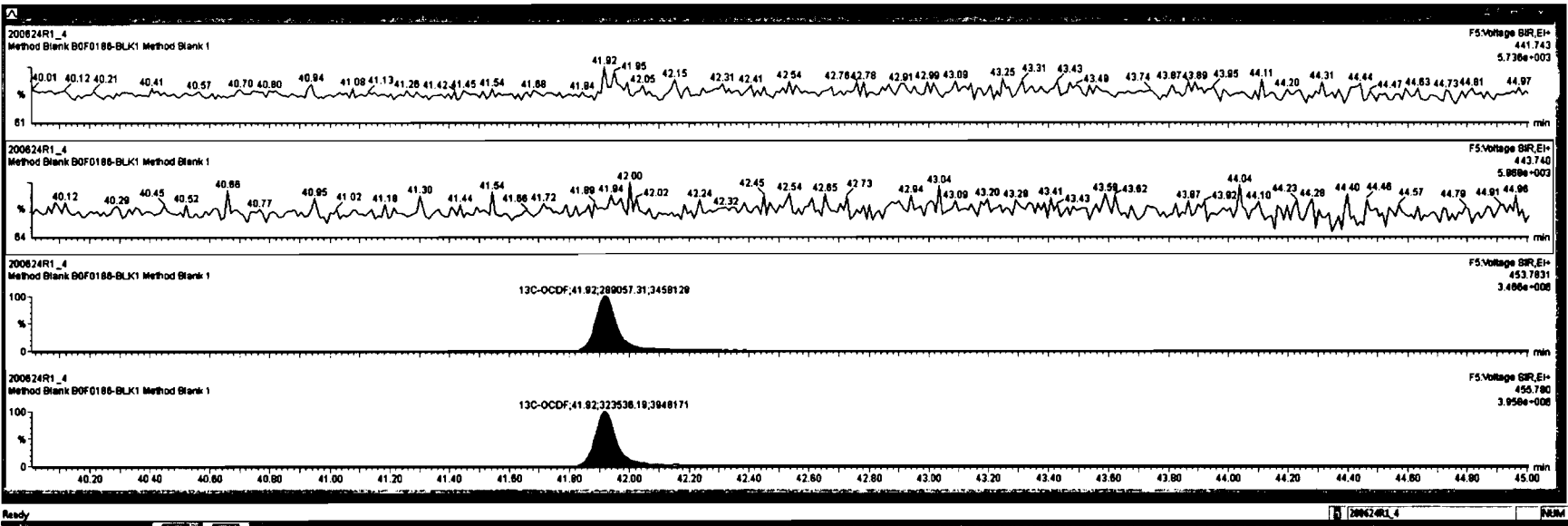
Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time  
Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

Name: 200624R1\_4, Date: 24-Jun-2020, Time: 11:24:26, ID: B0F0186-BLK1 Method Blank 1, Description: Method Blank



Peak	Retention Time (min)	Area	Height	Width	Resolution	S/N	Integration	Label			
1	8.83e5	0.77	NO	1.1983	1.000	26.40	26.45	1.028	1790	87.9	2.81
2	8.88e5	0.83	NO	0.8980	1.000	31.86	31.43	1.218	1790	88.2	3.98
3	4.23e5	1.28	NO	0.7790	1.000	34.82	34.81	1.014	1630	80.8	5.28
4	5.44e5	1.24	NO	1.0167	1.000	34.83	34.82	1.017	1980	78.8	4.04
5	4.78e5	1.22	NO	0.8027	1.000	35.20	35.21	1.025	1980	78.0	4.55
6	3.29e5	1.08	NO	0.8882	1.000	36.73	36.74	1.128	1420	71.0	4.88
7	5.40e5	0.88	NO	0.8521	1.000	41.75	41.73	1.215	2470	81.8	5.02
8	1.08e6	0.78	NO	1.0980	1.000	25.52	25.57	0.981	1980	78.9	4.31
9	8.48e5	1.58	NO	0.8380	1.000	30.04	30.15	1.188	1760	87.7	6.43

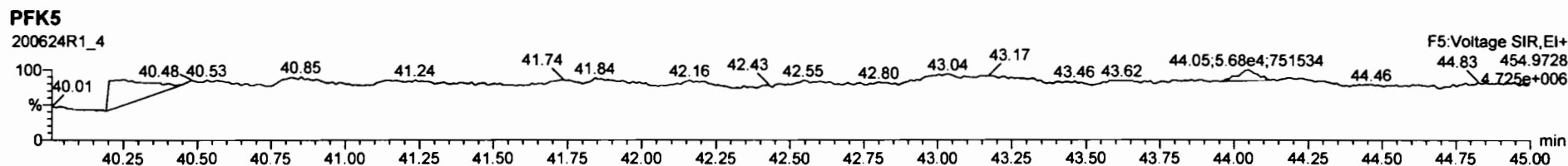
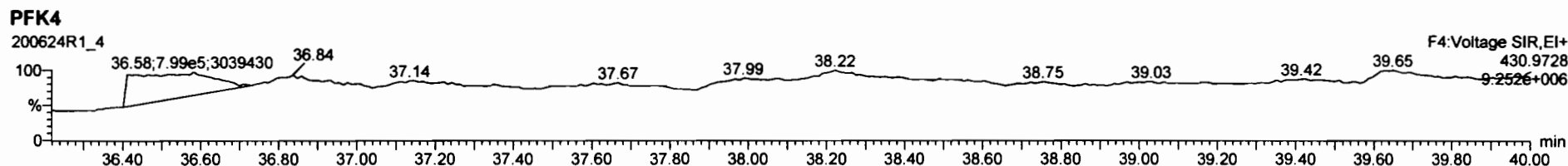
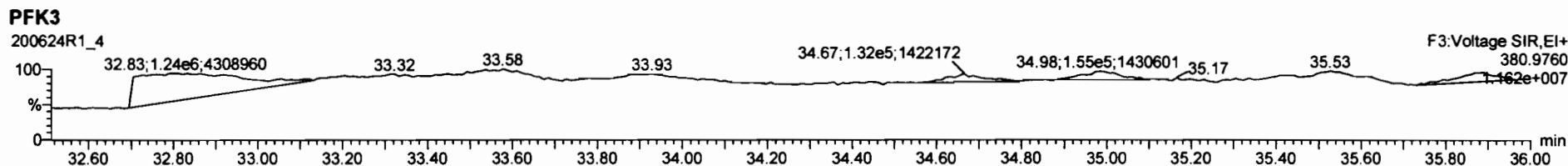
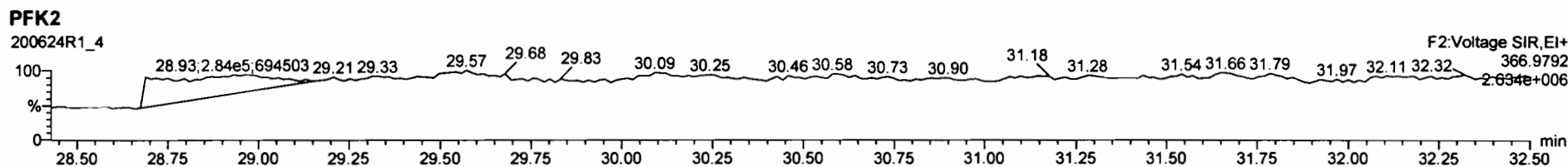
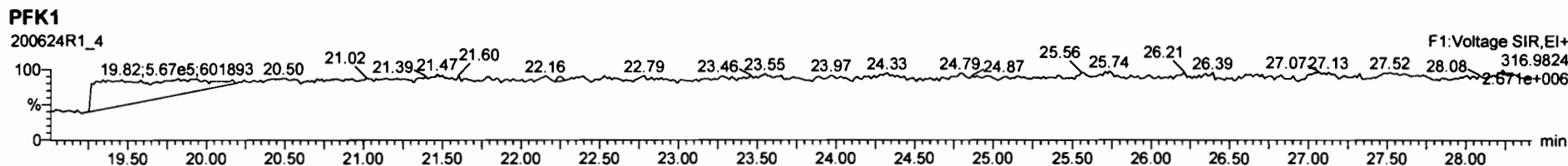
Peak	Retention Time (min)	Area	Height	Width	Resolution	S/N	Integration	Label
1								



Dataset: Untitled

Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time  
Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

Name: 200624R1\_4, Date: 24-Jun-2020, Time: 11:24:26, ID: B0F0186-BLK1 Method Blank 1, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200624R1\200624R1-2.qld

Last Altered: Tuesday, June 30, 2020 8:55:09 AM Pacific Daylight Time  
Printed: Tuesday, June 30, 2020 9:17:14 AM Pacific Daylight Time

*HN 06/30/2020*

*C7 07/10/2020*

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: 200624R1\_2, Date: 24-Jun-2020, Time: 09:50:35, ID: B0F0186-BS1 OPR 1, Description: OPR

	Resp	RA	ny	RRF	WVW	Pre-RRF	RRF	Pre-RRF	RRF	Conc			
1	2,3,7,8-TCDD	7.67e4	0.77	NO	0.888	1.000	26.501	26.48	1.001	1.001	188.70	1.15	189
2	1,2,3,7,8-PeCDD	3.12e5	0.63	NO	0.908	1.000	31.473	31.45	1.001	1.000	970.44	1.83	970
3	1,2,3,4,7,8-HxCDD	2.23e5	1.22	NO	1.03	1.000	34.824	34.84	1.000	1.001	941.41	2.56	941
4	1,2,3,6,7,8-HxCDD	2.86e5	1.24	NO	0.892	1.000	34.921	34.93	1.000	1.000	1079.5	2.52	1080
5	1,2,3,7,8,9-HxCDD	2.43e5	1.23	NO	0.887	1.000	35.219	35.22	1.000	1.000	1031.5	2.95	1030
6	1,2,3,4,6,7,8-HpCDD	1.71e5	1.01	NO	0.864	1.000	38.756	38.76	1.000	1.000	1028.7	3.64	1030
7	OCDD	2.99e5	0.88	NO	0.914	1.000	41.737	41.75	1.000	1.000	2024.2	4.38	2020
8	2,3,7,8-TCDF	8.35e4	0.73	NO	0.751	1.000	25.597	25.59	1.001	1.001	203.16	0.877	203
9	1,2,3,7,8-PeCDF	4.41e5	1.55	NO	0.893	1.000	30.175	30.17	1.001	1.000	977.12	2.70	977
10	2,3,4,7,8-PeCDF	4.53e5	1.54	NO	0.935	1.000	31.176	31.15	1.001	1.000	981.83	2.55	982
11	1,2,3,4,7,8-HxCDF	2.69e5	1.18	NO	0.884	1.000	33.941	33.95	1.000	1.000	1022.4	3.65	1020
12	1,2,3,6,7,8-HxCDF	3.22e5	1.20	NO	0.889	1.000	34.079	34.08	1.000	1.000	1046.5	3.38	1050
13	2,3,4,6,7,8-HxCDF	2.94e5	1.23	NO	0.934	1.000	34.690	34.67	1.001	1.000	1050.8	3.65	1050
14	1,2,3,7,8,9-HxCDF	2.26e5	1.19	NO	0.871	1.000	35.571	35.58	1.000	1.000	1002.8	5.74	1000
15	1,2,3,4,6,7,8-HpCDF	2.02e5	1.01	NO	0.873	1.000	37.376	37.36	1.001	1.001	1067.6	4.58	1070
16	1,2,3,4,7,8,9-HpCDF	1.58e5	1.03	NO	1.01	1.000	39.298	39.31	1.000	1.000	1110.2	5.12	1110
17	OCDF	3.07e5	0.87	NO	0.806	1.000	41.929	41.94	1.000	1.000	2085.0	4.92	2080
18	13C-2,3,7,8-TCDD	9.15e5	0.77	NO	1.16	1.000	26.491	26.47	1.026	1.026	1861.8	93.1	2.99
19	13C-1,2,3,7,8-PeCDD	7.07e5	0.63	NO	0.849	1.000	31.674	31.45	1.227	1.219	1959.1	98.0	3.13
20	13C-1,2,3,4,7,8-HxCDD	4.58e5	1.26	NO	0.779	1.000	34.819	34.81	1.014	1.014	1672.0	83.6	5.05
21	13C-1,2,3,6,7,8-HxCDD	5.94e5	1.25	NO	1.02	1.000	34.932	34.92	1.017	1.017	1661.6	83.1	3.87
22	13C-1,2,3,7,8,9-HxCDD	5.31e5	1.20	NO	0.903	1.000	35.204	35.21	1.025	1.025	1673.4	83.7	4.36
23	13C-1,2,3,4,6,7,8-HpCDD	3.84e5	1.00	NO	0.689	1.000	38.726	38.74	1.128	1.128	1583.8	79.2	5.20
24	13C-OCDD	6.46e5	0.90	NO	0.652	1.000	41.748	41.74	1.216	1.216	2816.3	70.4	5.81
25	13C-2,3,7,8-TCDF	1.09e6	0.77	NO	1.06	1.000	25.534	25.57	0.989	0.991	1659.4	83.0	4.27
26	13C-1,2,3,7,8-PeCDF	1.01e6	1.58	NO	0.838	1.000	30.058	30.15	1.165	1.168	1939.0	97.0	6.15
27	13C-2,3,4,7,8-PeCDF	9.88e5	1.61	NO	0.817	1.000	31.011	31.15	1.202	1.207	1942.3	97.1	6.31
28	13C-1,2,3,4,7,8-HxCDF	5.96e5	0.51	NO	1.01	1.000	33.950	33.94	0.989	0.988	1681.4	84.1	6.03
29	13C-1,2,3,6,7,8-HxCDF	6.92e5	0.51	NO	1.17	1.000	34.074	34.07	0.992	0.992	1687.0	84.3	5.20
30	13C-2,3,4,6,7,8-HxCDF	6.00e5	0.51	NO	1.02	1.000	34.647	34.65	1.009	1.009	1669.7	83.5	5.94
31	13C-1,2,3,7,8,9-HxCDF	5.18e5	0.49	NO	0.860	1.000	35.547	35.57	1.035	1.036	1712.8	85.6	7.06

Dataset: U:\VG12.PRO\Results\200624R1\200624R1-2.qld

Last Altered: Tuesday, June 30, 2020 8:55:09 AM Pacific Daylight Time

Printed: Tuesday, June 30, 2020 9:17:14 AM Pacific Daylight Time

Name: 200624R1\_2, Date: 24-Jun-2020, Time: 09:50:35, ID: B0F0186-BS1 OPR 1, Description: OPR

		RA	n/y	RRF									
32	13C-1,2,3,4,6,7,8-HpCDF	4.33e5	0.45	NO	0.774	1.000	37.295	37.34	1.086	1.087	1590.3	79.5	5.61
33	13C-1,2,3,4,7,8,9-HpCDF	2.82e5	0.43	NO	0.521	1.000	39.324	39.30	1.145	1.145	1536.7	76.8	8.35
34	13C-OCDF	7.31e5	0.90	NO	0.746	1.000	41.920	41.93	1.221	1.221	2788.1	69.7	4.65
35	37Cl-2,3,7,8-TCDD	3.29e5			1.04	1.000	26.522	26.48	1.028	1.026	745.35	93.2	0.784
36	13C-1,2,3,4-TCDD	8.50e5	0.78	NO	1.00	1.000	25.810	25.81	1.000	1.000	2000.0	100	3.45
37	13C-1,2,3,4-TCDF	1.25e6	0.79	NO	1.00	1.000	24.360	24.12	1.000	1.000	2000.0	100	4.52
38	13C-1,2,3,4,6,9-HxCDF	7.03e5	0.51	NO	1.00	1.000	34.420	34.33	1.000	1.000	2000.0	100	6.07

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200624R1\200624R1-2.qld

Last Altered: Tuesday, June 30, 2020 8:55:09 AM Pacific Daylight Time

Printed: Tuesday, June 30, 2020 9:17:14 AM 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: 200624R1\_2, Date: 24-Jun-2020, Time: 09:50:35, ID: B0F0186-BS1 OPR 1, Description: OPR

**Tetra-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PA	CF	Resp	EMPA	EMPC	DF
Total Tetra-Dioxins	26.20	9.256e3	1.302e4	8.729e2	1.214e3	0.72	NO	2.086e3	5.1318	5.1320	1.15
2,3,7,8-TCDD	26.48	4.966e5	6.425e5	3.351e4	4.321e4	0.77	NO	7.672e4	188.70	188.70	1.15

**Penta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PA	CF	Resp	EMPA	EMPC	DF
1,2,3,7,8-PeCDD	31.45	2.084e6	3.476e6	1.199e5	1.917e5	0.63	NO	3.116e5	970.44	970.44	1.83

**Hexa-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PA	CF	Resp	EMPA	EMPC	DF
1,2,3,4,7,8-HxCDD	34.84	2.182e6	1.770e6	1.225e5	1.003e5	1.22	NO	2.228e5	941.41	941.41	2.56
1,2,3,6,7,8-HxCDD	34.93	2.175e6	1.807e6	1.586e5	1.275e5	1.24	NO	2.861e5	1079.5	1079.5	2.52
1,2,3,7,8,9-HxCDD	35.22	1.943e6	1.599e6	1.339e5	1.090e5	1.23	NO	2.429e5	1031.5	1031.5	2.95

**Hepta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PA	CF	Resp	EMPA	EMPC	DF
Total Hepta-Dioxins	37.79	7.723e3	7.402e3	6.843e2	6.127e2	1.12	NO	1.297e3	7.8239	7.8240	3.64
1,2,3,4,6,7,8-HpCDD	38.76	1.103e6	1.089e6	8.581e4	8.472e4	1.01	NO	1.705e5	1028.7	1028.7	3.64
Total Hepta-Dioxins	39.10	7.991e3	1.075e4	2.949e2	4.960e2	0.60	YES	0.000e0	0.00000	3.4890	3.64

**Tetra-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PA	CF	Resp	EMPA	EMPC	DF
2,3,7,8-TCDF	25.59	4.680e5	6.781e5	3.514e4	4.833e4	0.73	NO	8.348e4	203.16	203.16	0.877



Dataset: U:\VG12.PRO\Results\200624R1\200624R1-2.qld

Last Altered: Tuesday, June 30, 2020 8:55:09 AM Pacific Daylight Time  
 Printed: Tuesday, June 30, 2020 9:17:14 AM Pacific Daylight Time

Name: 200624R1\_2, Date: 24-Jun-2020, Time: 09:50:35, ID: B0F0186-BS1 OPR 1, Description: OPR

**Penta-Furans function 1**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Area	Resp	Conc	EMPO	Y
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**Penta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Area	Resp	Conc	EMPO	Y	
Total Penta-Furans	29.99	1.017e4	5.604e3	4.838e2	3.052e2	1.59	NO	7.890e2	1.7684	1.7680	2.68
1,2,3,7,8-PeCDF	30.17	4.615e6	2.994e6	2.681e5	1.732e5	1.55	NO	4.412e5	977.12	977.13	2.70
Total Penta-Furans	30.40	3.315e4	2.127e4	2.544e3	1.310e3	1.94	YES	0.000e0	0.00000	7.4860	2.68
2,3,4,7,8-PeCDF	31.15	4.982e6	3.214e6	2.752e5	1.781e5	1.54	NO	4.532e5	981.83	981.83	2.55
Total Penta-Furans	32.09	1.858e4	1.295e4	7.639e2	6.693e2	1.14	YES	0.000e0	0.00000	2.8170	2.68

**Hexa-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Area	Resp	Conc	EMPO	Y	
Total Hexa-Furans	32.95	6.294e3	4.582e3	3.911e2	2.513e2	1.56	YES	0.000e0	0.00000	2.0040	3.84
1,2,3,4,7,8-HxCDF	33.95	2.683e6	2.261e6	1.456e5	1.238e5	1.18	NO	2.693e5	1022.4	1022.4	3.65
1,2,3,6,7,8-HxCDF	34.08	2.878e6	2.347e6	1.755e5	1.465e5	1.20	NO	3.221e5	1046.5	1046.5	3.38
2,3,4,6,7,8-HxCDF	34.67	2.606e6	2.130e6	1.622e5	1.322e5	1.23	NO	2.944e5	1050.8	1050.8	3.65
1,2,3,7,8,9-HxCDF	35.58	1.684e6	1.452e6	1.230e5	1.031e5	1.19	NO	2.260e5	1002.8	1002.8	5.74

**Hepta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Area	Resp	Conc	EMPO	Y	
1,2,3,4,6,7,8-HpCDF	37.36	1.276e6	1.268e6	1.014e5	1.005e5	1.01	NO	2.019e5	1067.6	1067.6	4.58
Total Hepta-Furans	37.99	6.189e3	4.900e3	3.987e2	2.338e2	1.71	YES	0.000e0	0.00000	3.0570	5.11
1,2,3,4,7,8,9-HpCDF	39.31	1.169e6	1.153e6	8.015e4	7.812e4	1.03	NO	1.583e5	1110.2	1110.2	5.12

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Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time  
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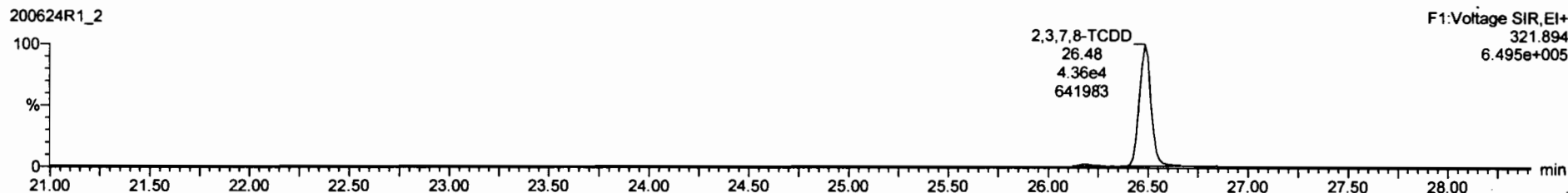
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**2,3,7,8-TCDD**

200624R1\_2

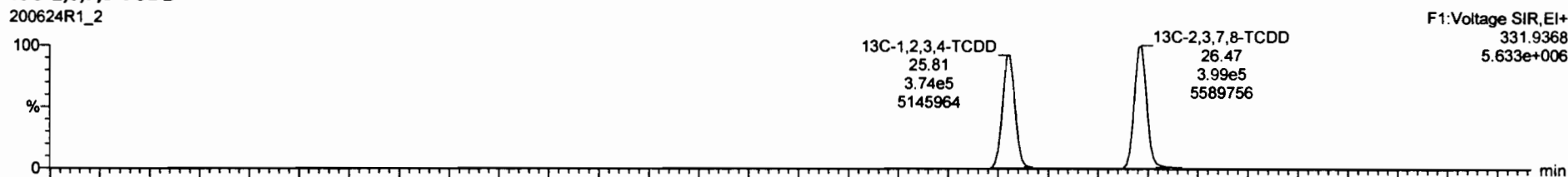


200624R1\_2

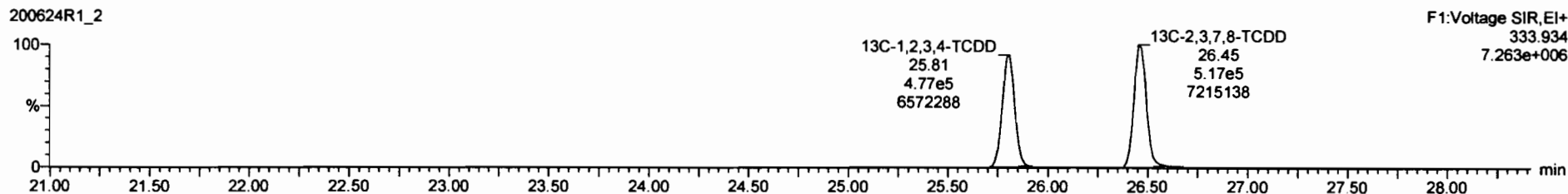


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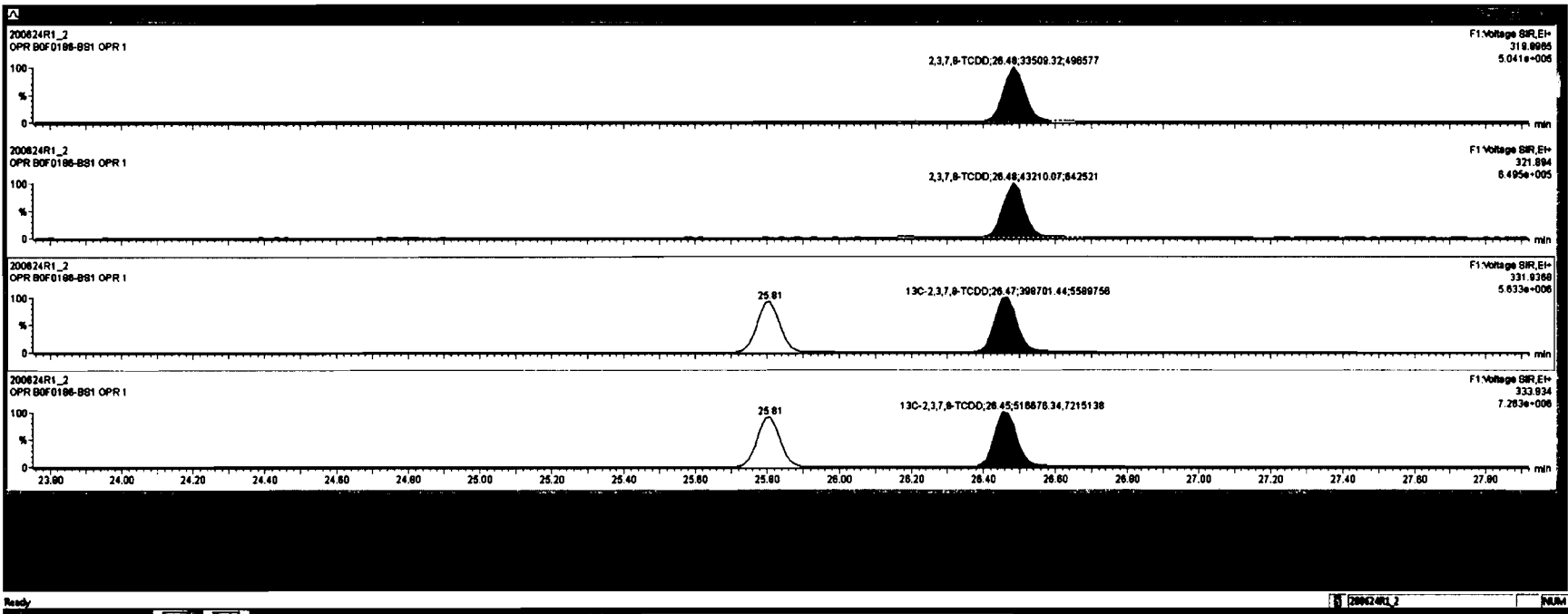
200624R1\_2



200624R1\_2



1,2,3,7,8-TCDD	3.11e5	0.82	NO	0.9091	1.000	31.47	31.43	1.000	988	1.83	988
1,2,3,4,7,8-TCDD	2.26e5	1.22	NO	1.0234	1.000	34.82	34.84	1.001	982	2.98	982
1,2,3,8,7,8-TCDD	2.74e5	1.25	NO	0.8823	1.000	34.82	34.83	1.000	1040	2.52	1040
1,2,3,7,8-TCDD	2.44e5	1.23	NO	0.8888	1.000	35.22	35.22	1.000	1040	2.96	1040
1,2,3,4,6,7,8-TCDD	1.78e5	1.02	NO	0.8838	1.000	38.78	38.78	1.000	1080	3.84	1080
OCDD	3.05e5	0.88	NO	0.9138	1.000	41.74	41.75	1.000	2070	4.38	2070
2,3,7,8-TCDF	8.22e4	0.73	NO	0.7910	1.000	25.80	25.98	1.001	200	0.877	200
1,2,3,7,8-TCDF	4.41e5	1.85	NO	0.8825	1.000	30.18	30.17	1.000	977	2.70	977
2,3,4,7,8-TCDF	4.48e5	1.84	NO	0.9348	1.000	31.18	31.16	1.000	988	2.56	988

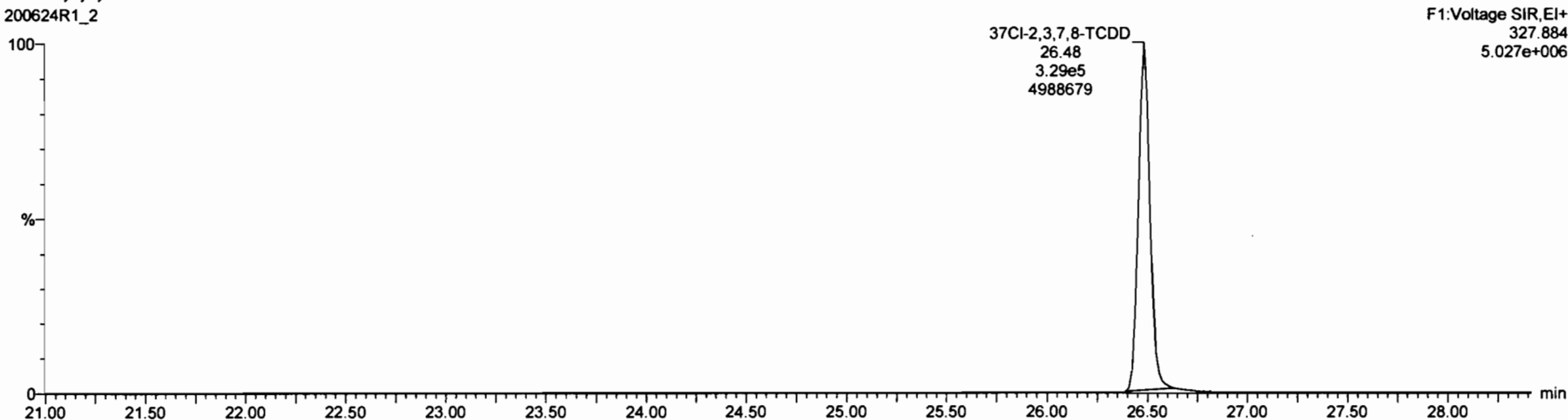


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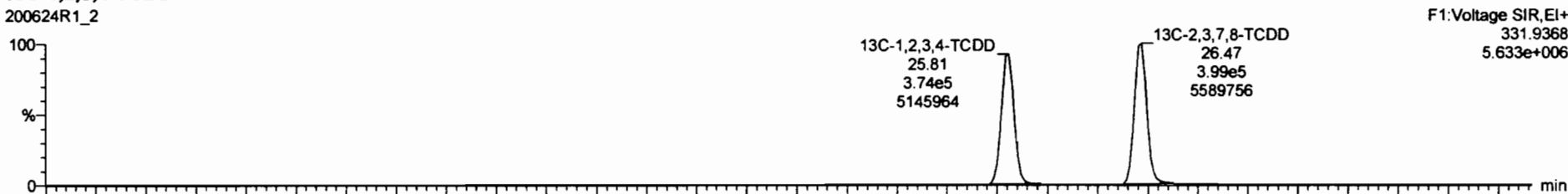
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Name: 200624R1\_2, Date: 24-Jun-2020, Time: 09:50:35, ID: B0F0186-BS1 OPR 1, Description: OPR

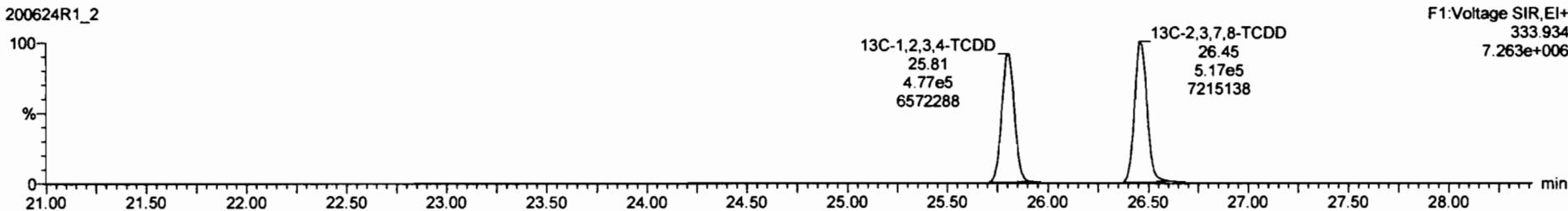
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200624R1\_2



**13C-1,2,3,4-TCDD**  
200624R1\_2



200624R1\_2



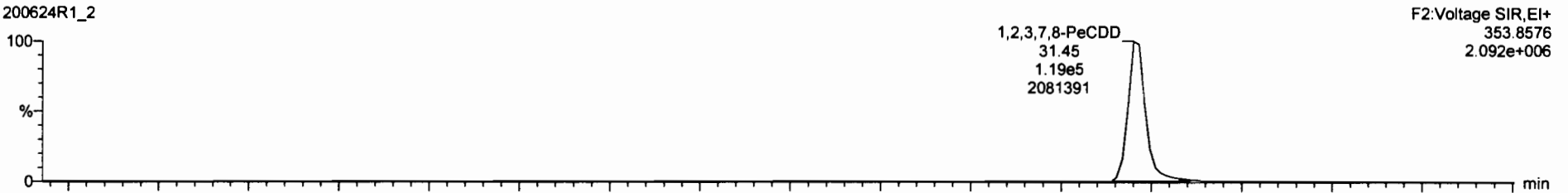
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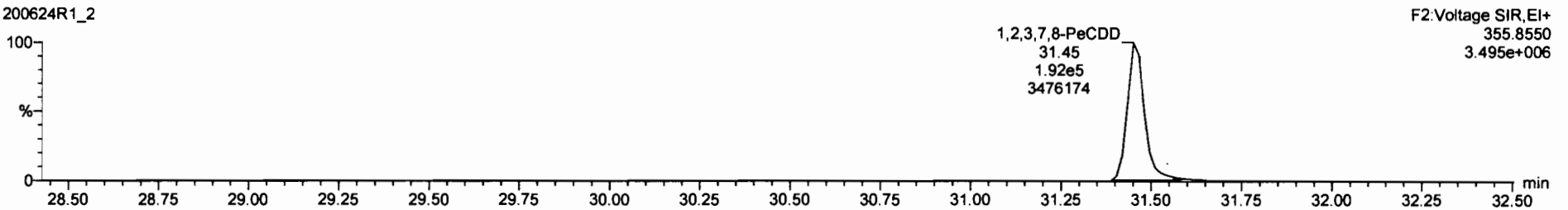
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**1,2,3,7,8-PeCDD**

200624R1\_2

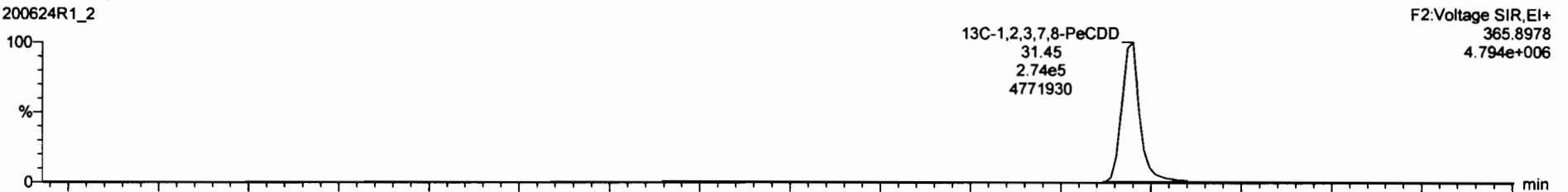


200624R1\_2

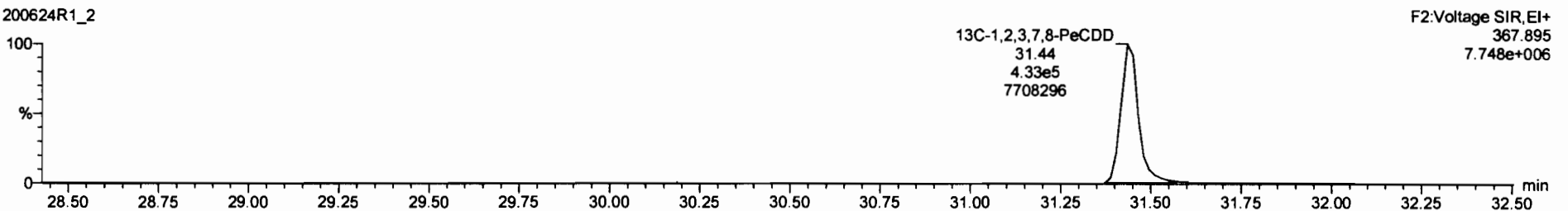


**13C-1,2,3,7,8-PeCDD**

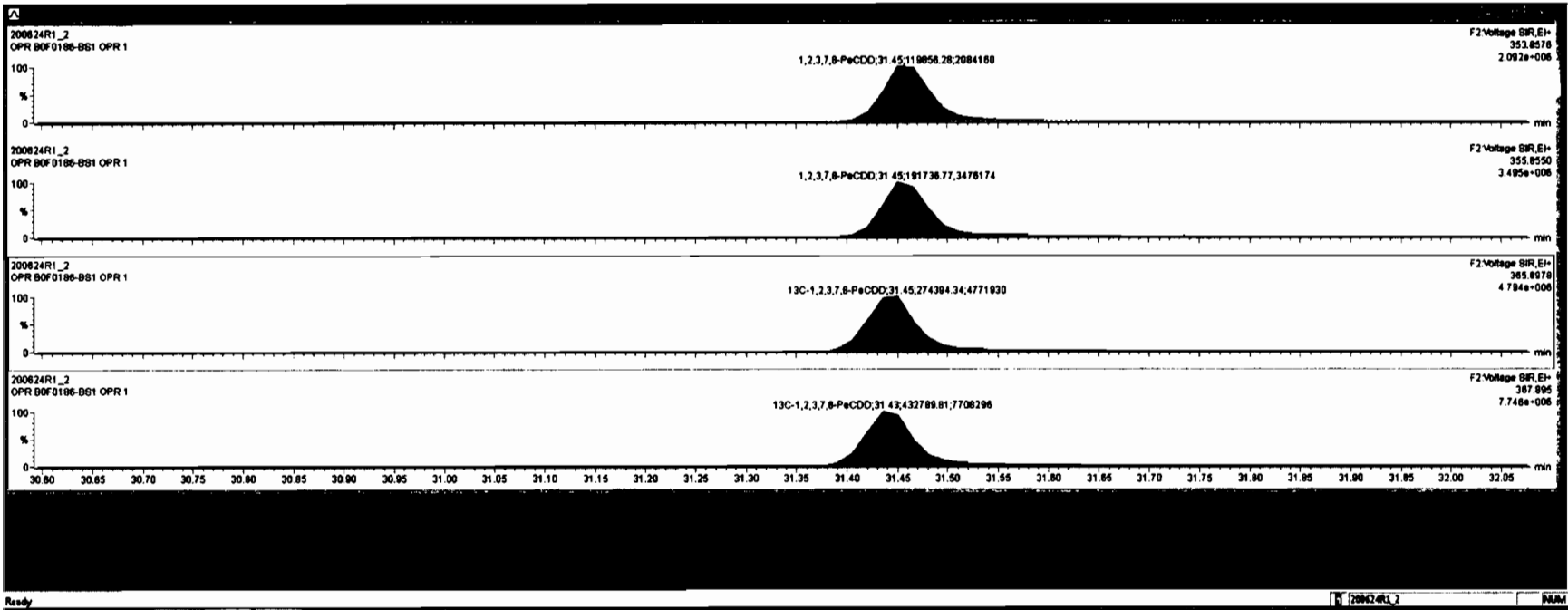
200624R1\_2



200624R1\_2



2,3,7,8-TCDD	7.87e4	0.78	NO	0.8893	1.000	28.50	28.46	1.001	100	1.15	100
1,2,3,4,7,8-HxCDD	2.35e5	1.22	NO	1.0334	1.000	34.82	34.84	1.001	982	2.98	982
1,2,3,6,7,8-HxCDD	2.74e5	1.25	NO	0.8823	1.000	34.82	34.83	1.000	1040	2.52	1040
1,2,3,7,8-HxCDD	2.44e5	1.23	NO	0.8889	1.000	35.22	35.22	1.000	1040	2.85	1040
1,2,3,4,6,7,8-HxCDD	1.78e5	1.02	NO	0.8839	1.000	36.78	36.78	1.000	1080	3.84	1080
OCDD	9.05e5	0.88	NO	0.8138	1.000	41.74	41.75	1.000	2070	4.36	2070
2,3,7,8-TCDF	8.22e4	0.73	NO	0.7910	1.000	25.80	25.98	1.001	200	0.877	200
1,2,3,7,8-PeCDF	4.41e5	1.85	NO	0.8825	1.000	30.18	30.17	1.000	977	2.70	977
2,3,4,7,8-PeCDF	4.48e5	1.54	NO	0.9348	1.000	31.18	31.15	1.000	989	2.85	989



Dataset: Untitled

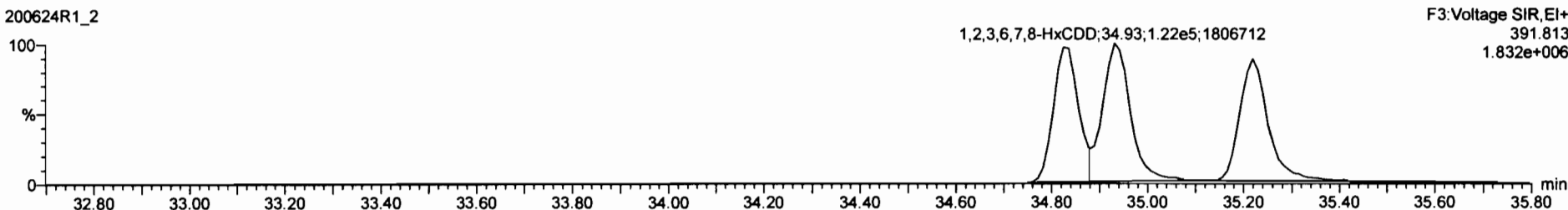
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Name: 200624R1\_2, Date: 24-Jun-2020, Time: 09:50:35, ID: B0F0186-BS1 OPR 1, Description: OPR

**1,2,3,4,7,8-HxCDD**  
200624R1\_2

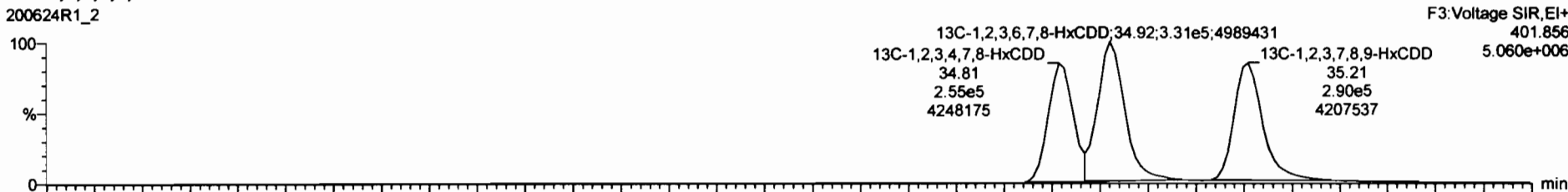


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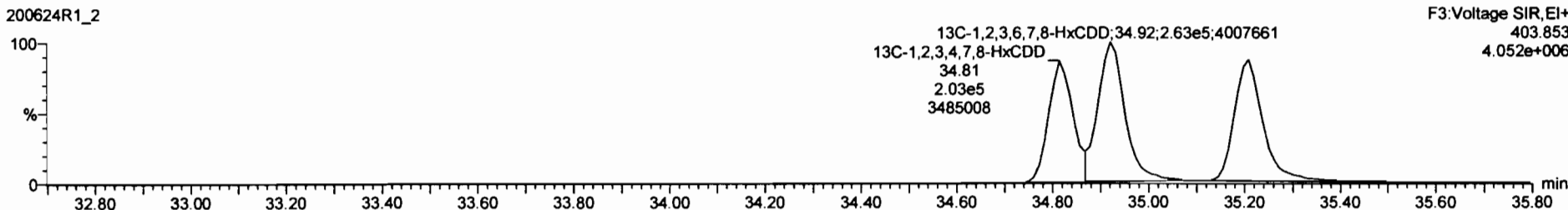


**13C-1,2,3,4,7,8-HxCDD**

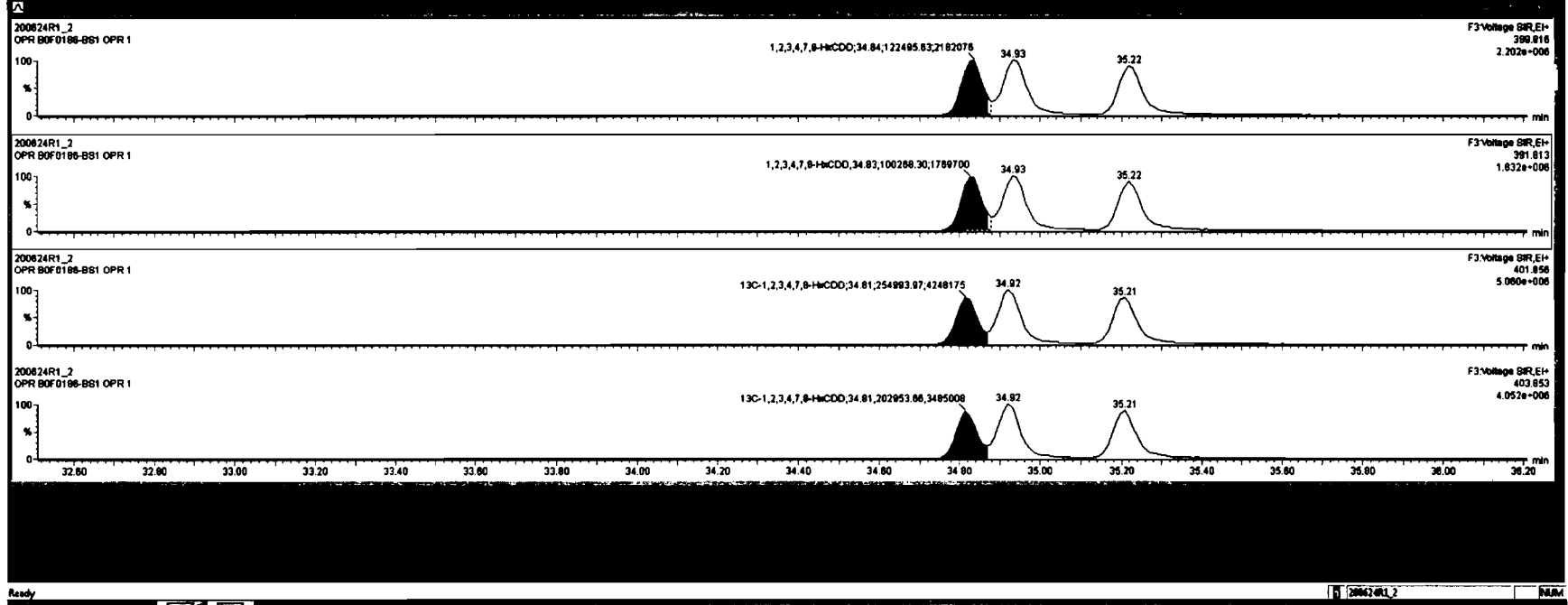
200624R1\_2



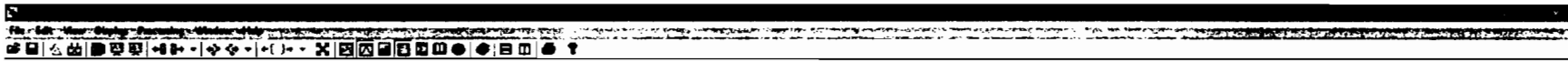
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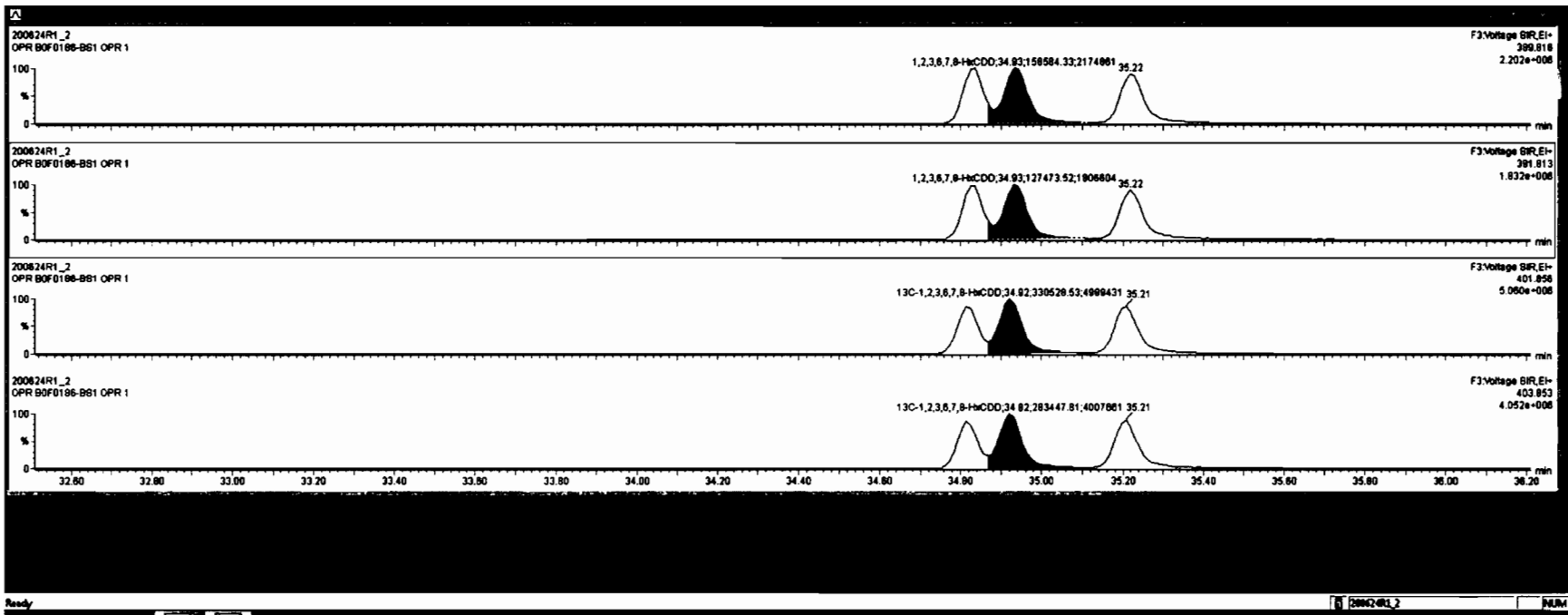
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1,2,3,7,8-PeCDD	3.12e5	0.63	NO	0.8091	1.000	31.47	31.45	1.000	970		1.83	970
1,2,3,6,7,8-HxCDD	2.89e5	1.24	NO	0.8623	1.000	34.92	34.93	1.000	1080		2.52	1080
1,2,3,7,8-HxCDD	2.44e5	1.23	NO	0.8669	1.000	35.22	35.22	1.000	1040		2.86	1040
1,2,3,4,6,7,8-HxCDD	1.78e5	1.02	NO	0.8638	1.000	38.76	38.76	1.000	1080		3.84	1080
OCDD	3.05e5	0.88	NO	0.8136	1.000	41.74	41.75	1.000	2070		4.38	2070
2,3,7,8-TCDF	8.22e4	0.73	NO	0.7910	1.000	25.80	25.98	1.001	200		0.877	200
1,2,3,7,8-PeCDF	4.41e5	1.86	NO	0.8825	1.000	30.18	30.17	1.000	977		2.70	977
2,3,4,7,8-PeCDF	4.48e5	1.64	NO	0.8348	1.000	31.18	31.15	1.000	989		2.56	989



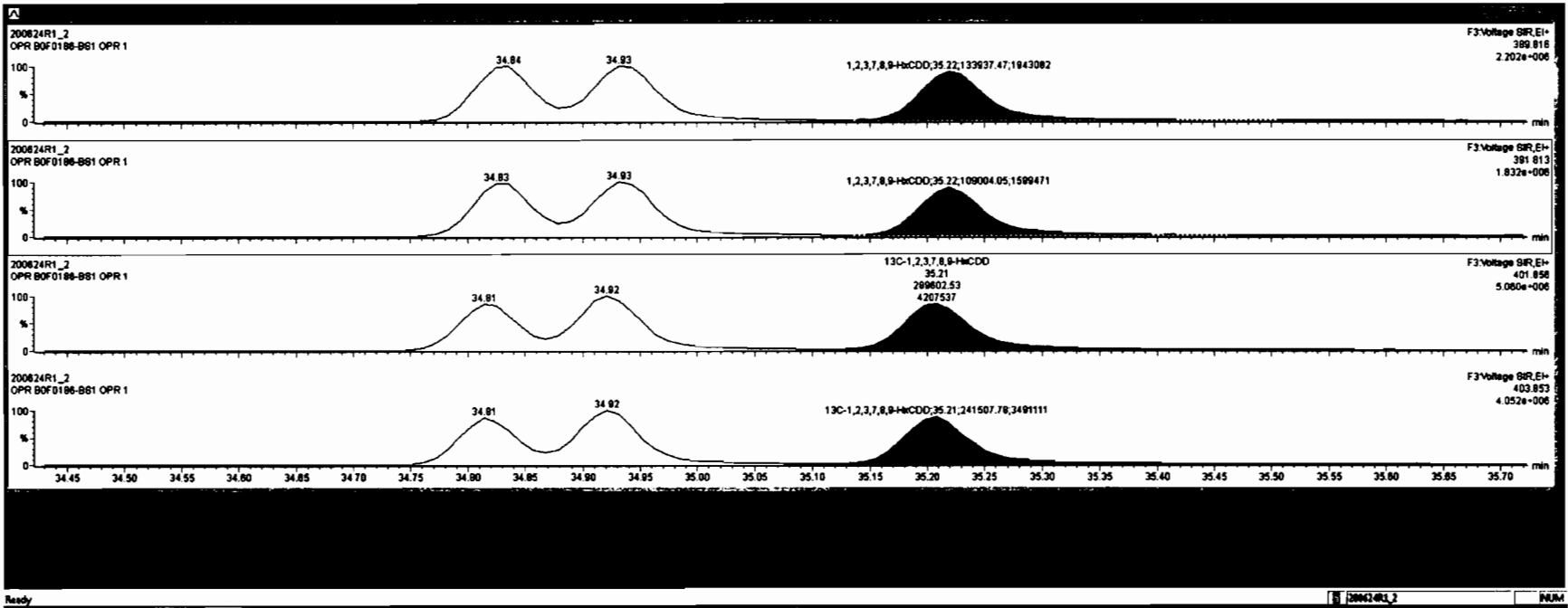




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1,2,3,7,8-PeCDD	3.12e5	0.83	NO	0.8091	1.000	31.47	31.45	1.000	970	1.83	970
1,2,3,4,7,8-HxCDD	2.23e5	1.22	NO	1.2334	1.000	34.82	34.84	1.001	941	2.98	941
1,2,3,7,8-HxCDD	2.44e5	1.23	NO	0.8899	1.000	35.22	35.22	1.000	1040	2.85	1040
1,2,3,4,6,7,8-HxCDD	1.78e5	1.02	NO	0.8838	1.000	36.76	36.78	1.000	1080	3.84	1080
OCDD	3.05e5	0.86	NO	0.9138	1.000	41.74	41.75	1.000	2070	4.36	2070
2,3,7,8-TCDF	8.22e4	0.73	NO	0.7910	1.000	25.80	25.58	1.001	200	0.877	200
1,2,3,7,8-PeCDF	4.41e5	1.55	NO	0.8825	1.000	30.18	30.17	1.000	977	2.70	977
1,2,3,4,7,8-PeCDF	4.48e5	1.54	NO	0.8948	1.000	31.18	31.15	1.000	989	2.85	989



1,2,3,7,8-TCDD	7.87e4	0.79	NO	0.8893	1.000	28.50	28.49	1.001	198		1.15	198
1,2,3,7,8-PeCDD	3.12e5	0.83	NO	0.9091	1.000	31.47	31.45	1.000	970		1.83	970
1,2,3,4,7,8-HxCDD	2.23e5	1.22	NO	1.0334	1.000	34.82	34.84	1.001	941		2.98	941
1,2,3,7,8-HxCDD	2.86e5	1.24	NO	0.8823	1.000	34.82	34.83	1.000	1080		2.82	1080
1,2,3,4,6,7,8-HxCDD	1.79e5	1.02	NO	0.8838	1.000	38.78	38.78	1.000	1080		3.84	1080
OCDD	3.05e5	0.88	NO	0.8138	1.000	41.74	41.75	1.000	2070		4.38	2070
2,3,7,8-TCDF	8.22e4	0.73	NO	0.7910	1.000	25.80	25.98	1.001	200		0.877	200
1,2,3,7,8-PeCDF	4.41e5	1.55	NO	0.8828	1.000	30.18	30.17	1.000	977		2.70	977
1,2,3,4,7,8-PeCDF	4.48e5	1.54	NO	0.8348	1.000	31.18	31.15	1.000	989		2.56	989



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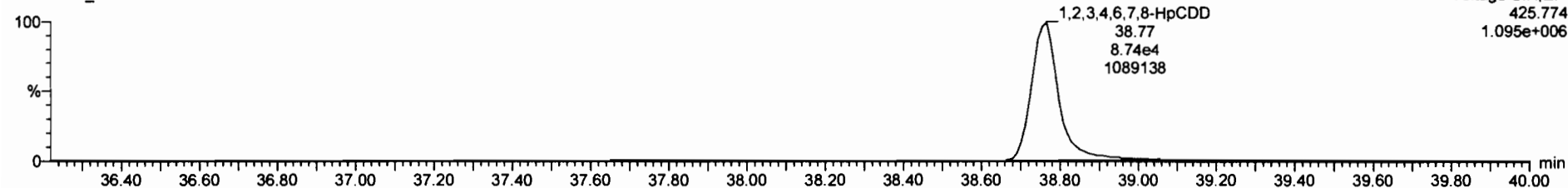
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1,2,3,4,6,7,8-HpCDD

200624R1\_2

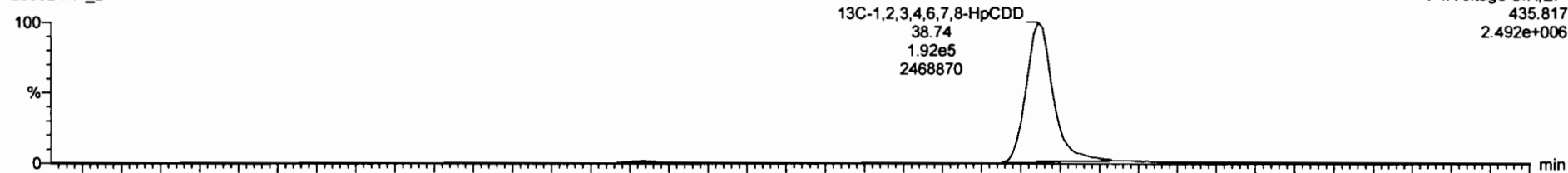


200624R1\_2

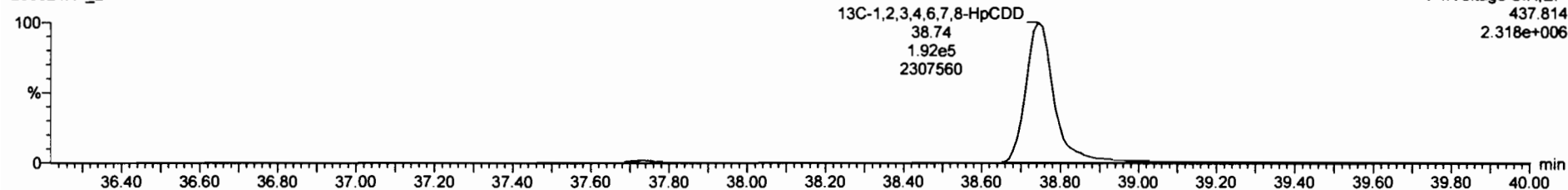


13C-1,2,3,4,6,7,8-HpCDD

200624R1\_2



200624R1\_2

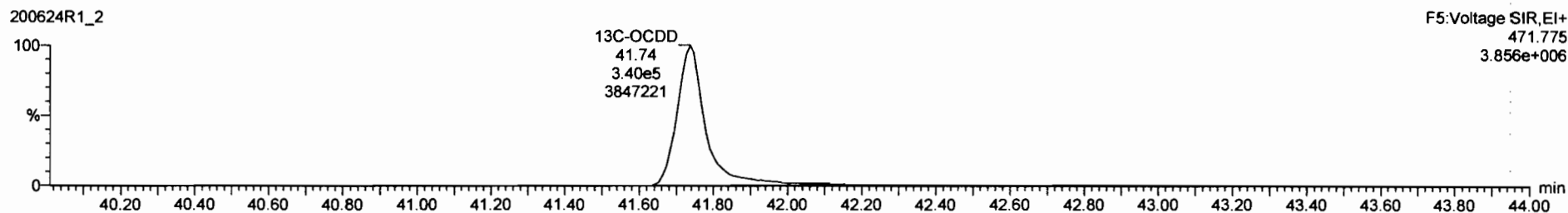
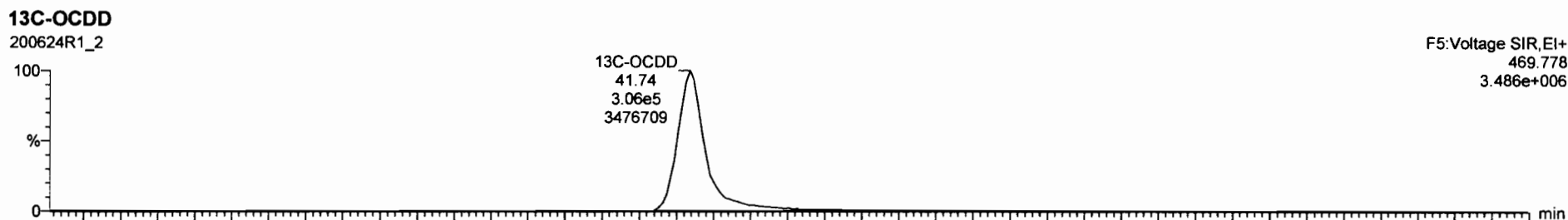
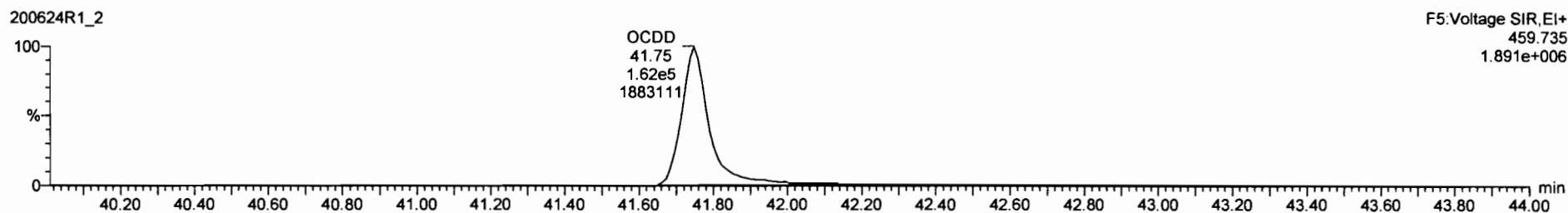
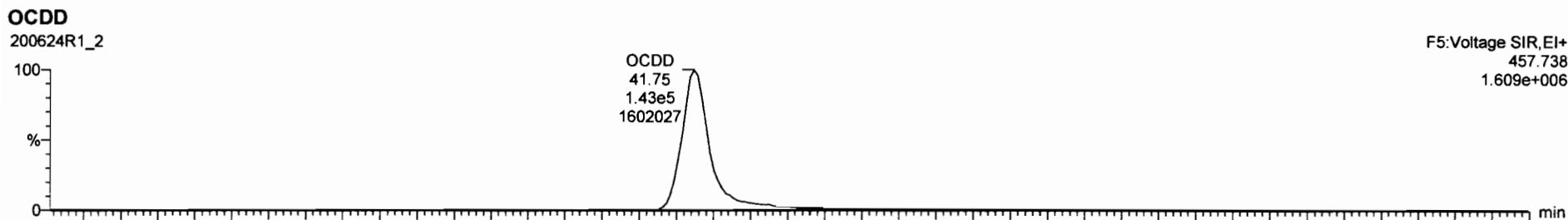




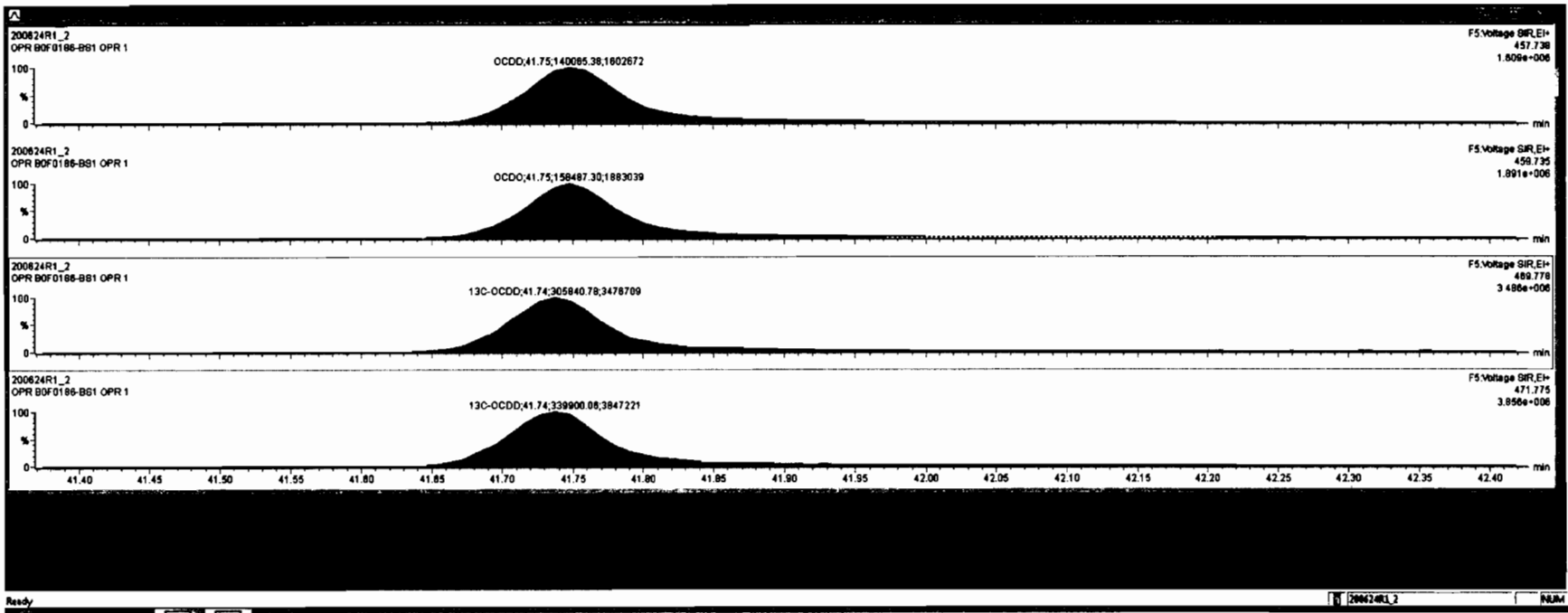
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Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time  
Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

Name: 200624R1\_2, Date: 24-Jun-2020, Time: 09:50:35, ID: B0F0186-BS1 OPR 1, Description: OPR



2,3,7,8-TCDD	7.87e4	0.78	NO	0.8663	1.000	28.50	28.46	1.001	188		1.15	199
1,2,3,7,8-PeCDD	3.12e5	0.83	NO	0.8081	1.000	31.47	31.45	1.000	870		1.83	970
1,2,3,4,7,8-HxCDD	2.23e5	1.22	NO	1.2334	1.000	34.82	34.84	1.001	941		3.58	941
1,2,3,7,8,9-HxCDD	2.88e5	1.24	NO	0.8823	1.000	34.82	34.82	1.000	1080		3.52	1080
1,2,3,7,8,9-HxCDD	2.43e5	1.23	NO	0.8889	1.000	35.22	35.22	1.000	1030		3.85	1030
1,2,3,4,6,7,8-HpCDD	1.71e5	1.01	NO	0.8639	1.000	38.78	38.78	1.000	1030		3.64	1030
2,3,7,8-TCDF	8.22e4	0.73	NO	0.7910	1.000	25.80	25.58	1.001	200		0.877	200
1,2,3,7,8-PeCDF	4.41e5	1.55	NO	0.8825	1.000	30.18	30.17	1.000	977		2.70	977
2,3,4,7,8-PeCDF	4.48e5	1.54	NO	0.9348	1.000	31.18	31.15	1.000	988		2.55	988



Dataset: Untitled

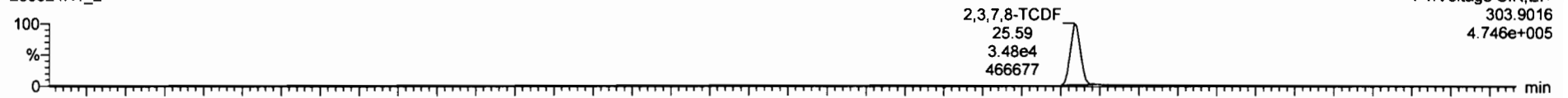
Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time

Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

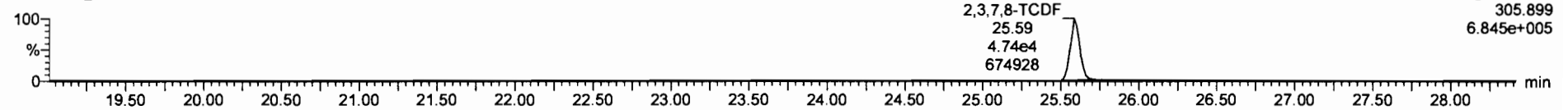
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**2,3,7,8-TCDF**

200624R1\_2

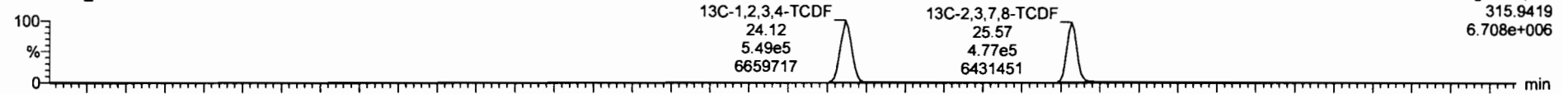


200624R1\_2

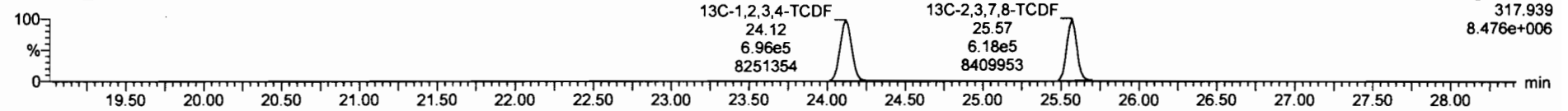


**13C-2,3,7,8-TCDF**

200624R1\_2

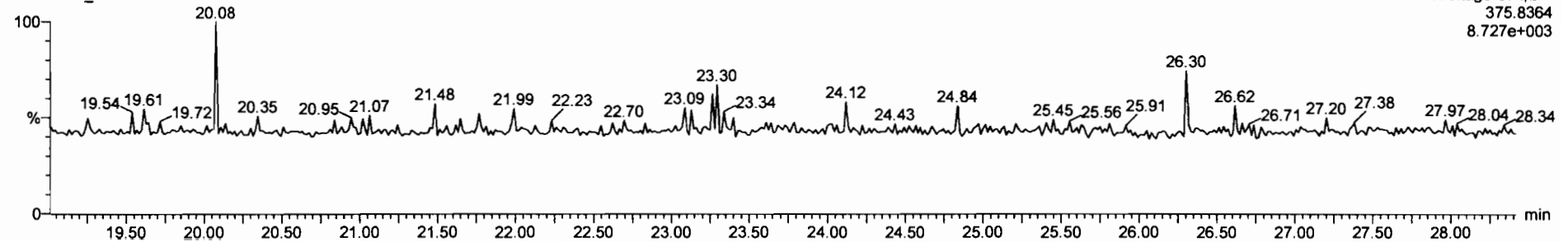


200624R1\_2

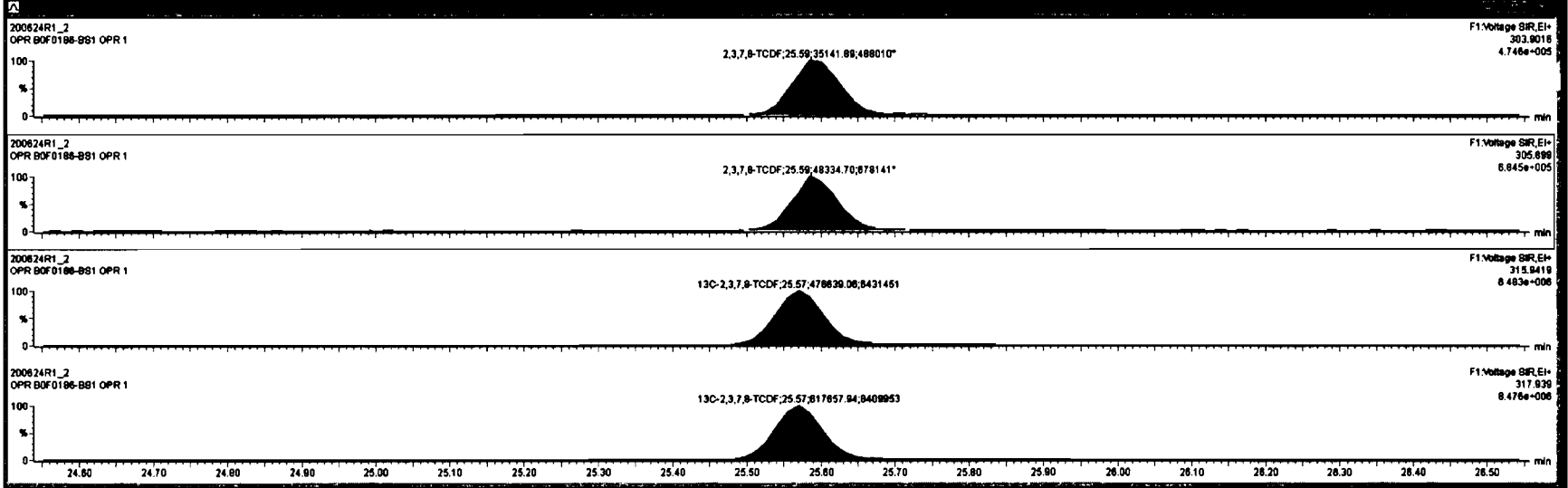


**DPE1**

200624R1\_2



2,3,7,8-TCDF	7.87e4	0.78	NO	0.8983	1.000	28.50	28.48	1.001	188	1.15	188
2,3,7,8-PeCDD	3.12e5	0.83	NO	0.8991	1.000	31.47	31.45	1.000	870	1.83	870
2,3,4,7,8-PeCDD	2.23e5	1.22	NO	1.0234	1.000	34.82	34.84	1.001	941	2.58	941
2,3,6,7,8-PeCDD	2.88e5	1.24	NO	0.8923	1.000	34.82	34.83	1.000	1080	2.52	1080
2,3,7,8-PeCDD	2.43e5	1.23	NO	0.8889	1.000	35.22	35.22	1.000	1030	2.85	1030
2,3,4,6,7,8-HxCDD	1.71e5	1.01	NO	0.8838	1.000	38.78	38.78	1.000	1030	3.84	1030
CDD	2.88e5	0.88	NO	0.8138	1.000	41.74	41.75	1.000	2020	4.38	2020
2,3,7,8-PeCDF	4.41e5	1.95	NO	0.8825	1.000	30.18	30.17	1.000	877	2.70	877
2,3,4,7,8-PeCDF	4.48e5	1.54	NO	0.9348	1.000	31.18	31.15	1.000	980	2.55	980





Dataset: Untitled

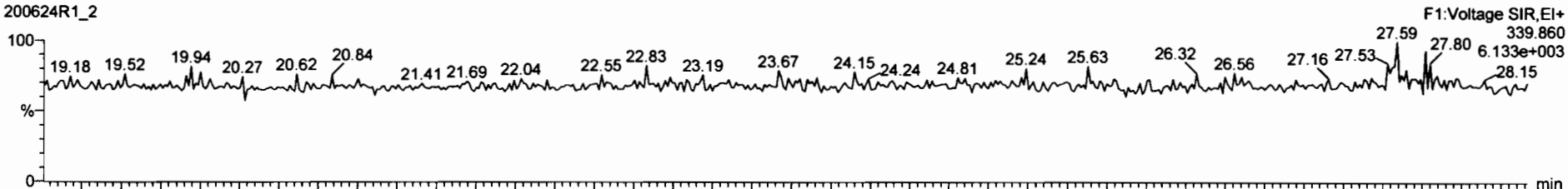
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Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

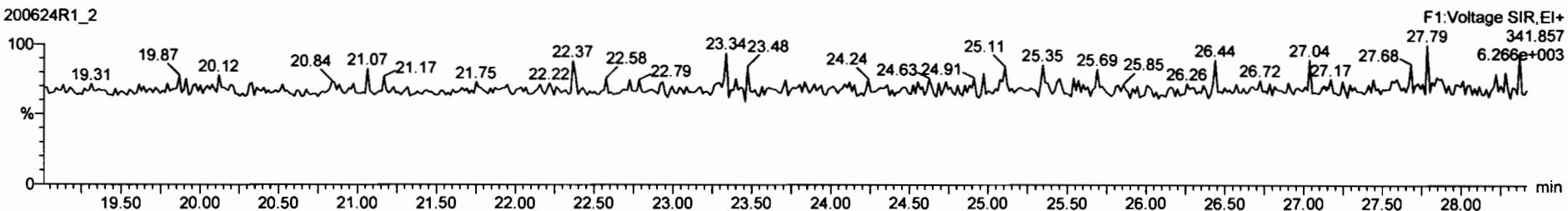
Name: 200624R1\_2, Date: 24-Jun-2020, Time: 09:50:35, ID: B0F0186-BS1 OPR 1, Description: OPR

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200624R1\_2

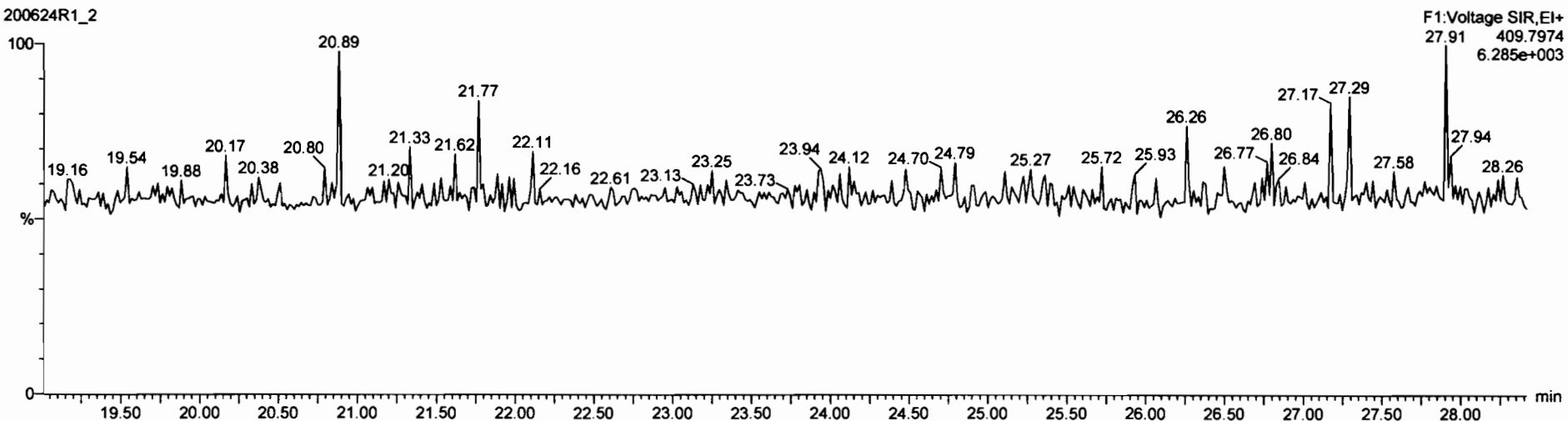


200624R1\_2



DPE6

200624R1\_2



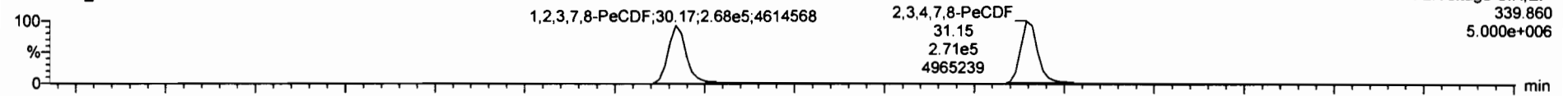
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Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time  
Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

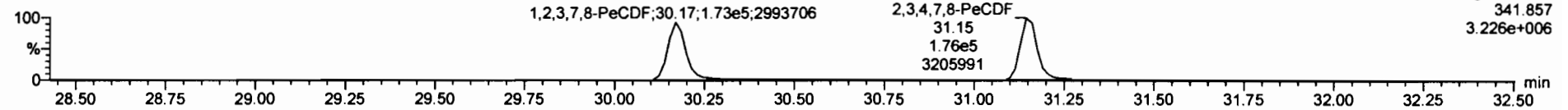
Name: 200624R1\_2, Date: 24-Jun-2020, Time: 09:50:35, ID: B0F0186-BS1 OPR 1, Description: OPR

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

200624R1\_2

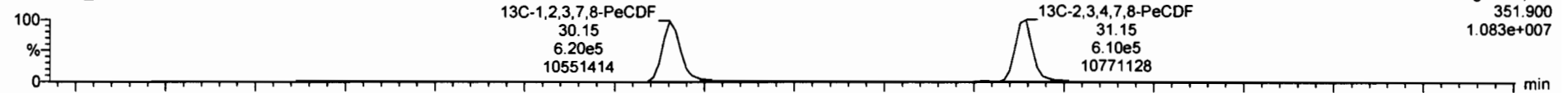


200624R1\_2

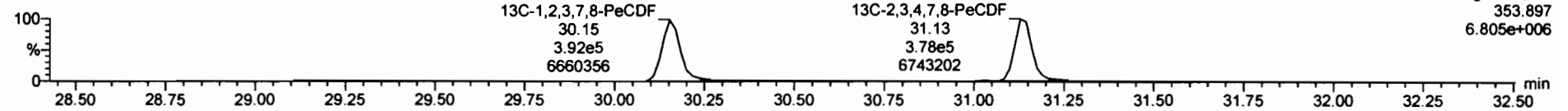


**13C-1,2,3,7,8-PeCDF**

200624R1\_2

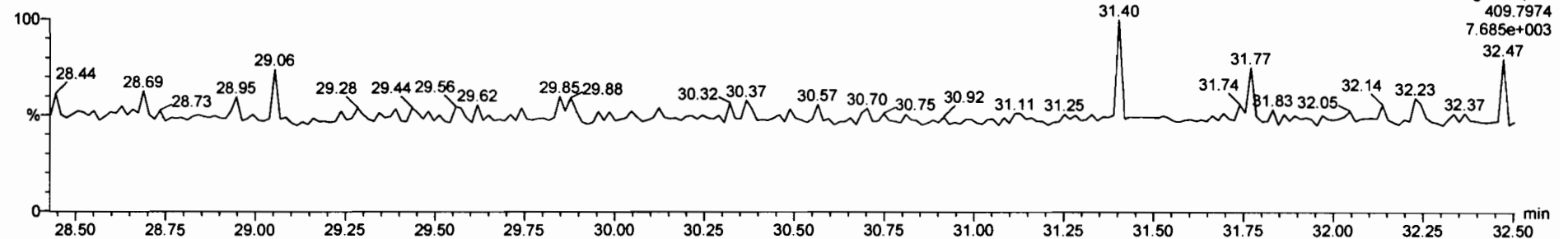


200624R1\_2



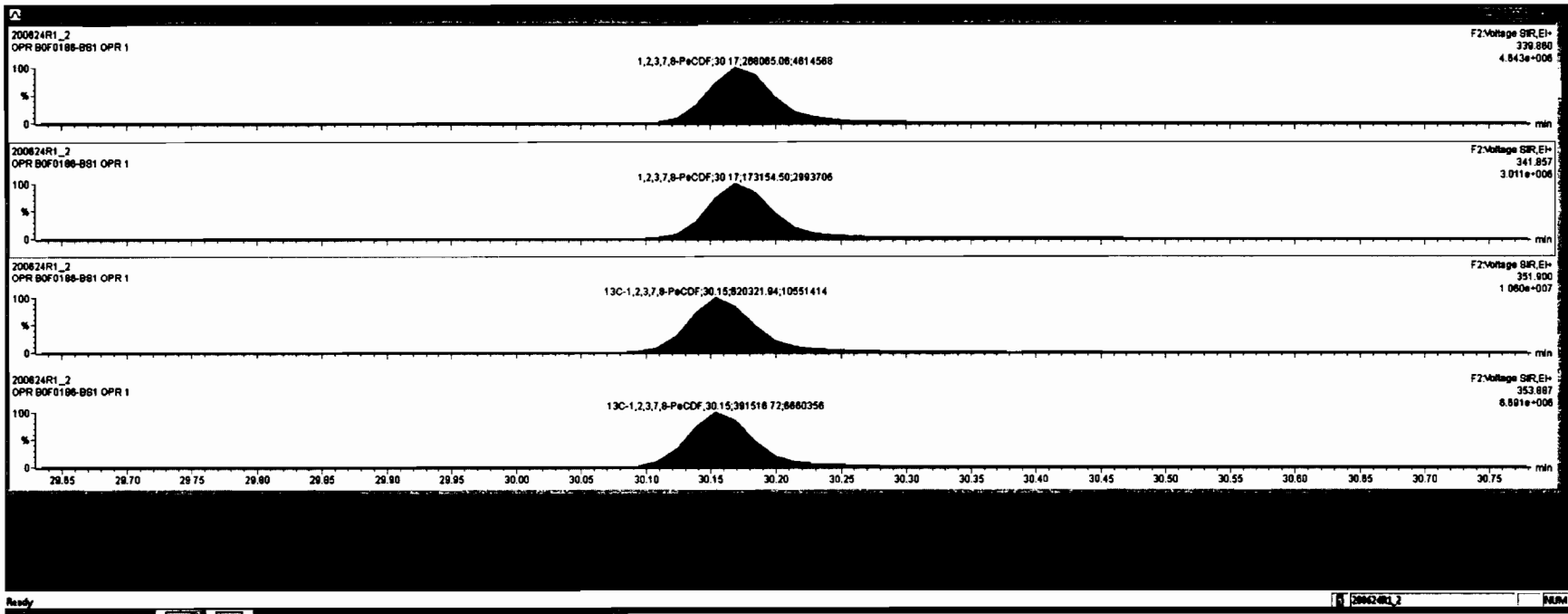
**DPE2**

200624R1\_2

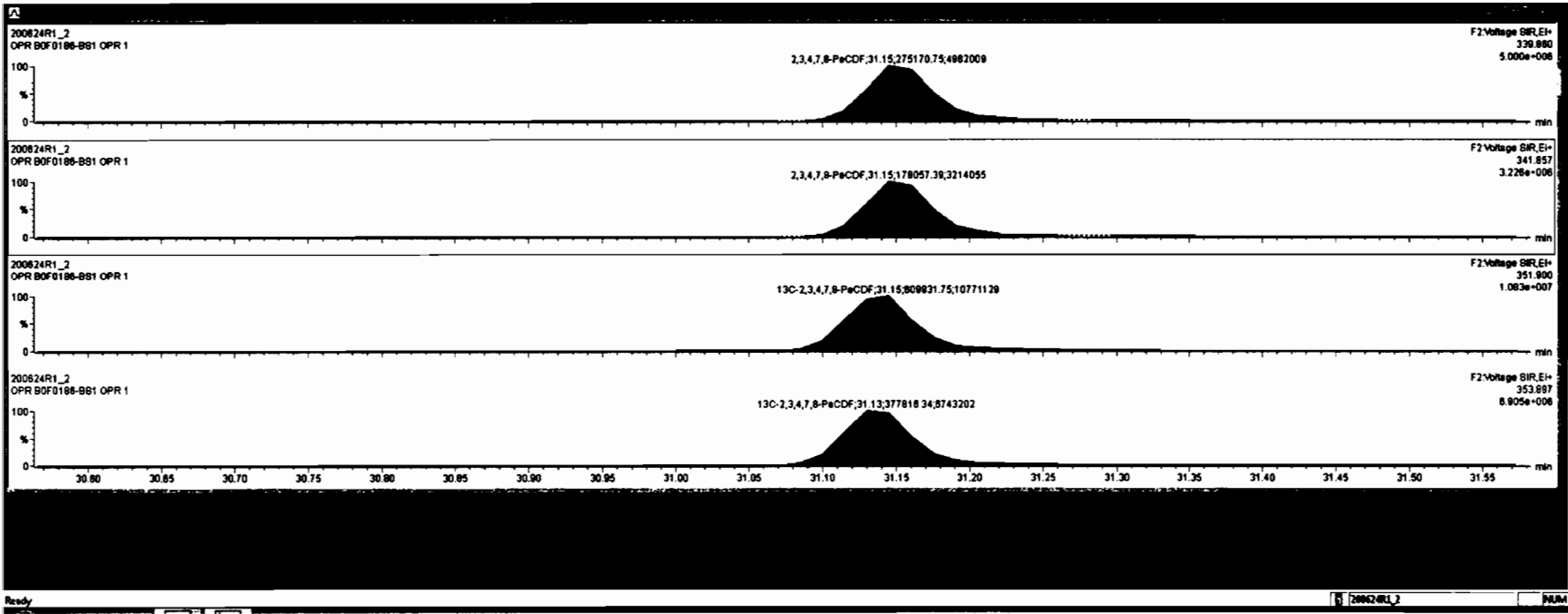




2,3,7,8-TCDF	7.87e4	0.78	NO	0.8983	1.000	28.50	28.46	1.001	100	1.15	100
1,2,3,7,8-PeCDD	3.12e5	0.83	NO	0.9281	1.000	31.47	31.45	1.000	970	1.83	970
1,2,3,4,7,8-HxCDD	2.22e5	1.22	NO	1.0234	1.000	34.82	34.84	1.001	841	2.58	841
1,2,3,6,7,8-HxCDD	2.88e5	1.24	NO	0.8823	1.000	34.82	34.82	1.000	1080	2.52	1080
1,2,3,7,8-HxCDD	2.43e5	1.23	NO	0.8889	1.000	35.22	35.22	1.000	1030	2.95	1030
1,2,3,4,6,7,8-HpCDD	1.71e5	1.01	NO	0.8838	1.000	38.78	38.78	1.000	1030	3.84	1030
OCDD	2.98e5	0.88	NO	0.8138	1.000	41.74	41.75	1.000	2020	4.38	2020
2,3,7,8-TCDF	8.35e4	0.73	NO	0.7510	1.000	25.80	25.80	1.001	203	0.877	203
1,2,3,4,7,8-PeCDF	4.48e5	1.54	NO	0.8348	1.000	31.18	31.15	1.000	998	2.56	998



Compound	Concentration	Response	Retention	Area	Height	Width	Height	Area	Height	Width
2,3,7,8-TCDF	7.87e4	0.78	NO	0.8883	1.000	28.50	28.44	1.001	186	1.15
1,2,3,7,8-PeCDD	5.12e5	0.83	NO	0.9091	1.000	31.47	31.45	1.000	970	1.83
1,2,3,4,7,8-HxCDD	2.22e5	1.22	NO	1.0334	1.000	34.82	34.84	1.001	941	2.90
1,2,3,7,8-HxCDD	2.98e5	1.24	NO	0.8823	1.000	34.82	34.83	1.000	1080	2.82
1,2,3,7,8,9-HxCDD	2.43e5	1.23	NO	0.8898	1.000	36.22	36.22	1.000	1030	2.95
1,2,3,4,6,7,8-HxCDD	1.71e5	1.01	NO	0.8838	1.000	38.78	38.78	1.000	1030	3.84
OCDD	2.88e5	0.88	NO	0.9138	1.000	41.74	41.75	1.000	2020	4.38
2,3,7,8-TCDF	8.35e4	0.73	NO	0.7910	1.000	25.80	25.86	1.001	203	0.877
1,2,3,7,8-PeCDF	4.41e5	1.95	NO	0.8825	1.000	30.18	30.17	1.000	977	2.70



Dataset: Untitled

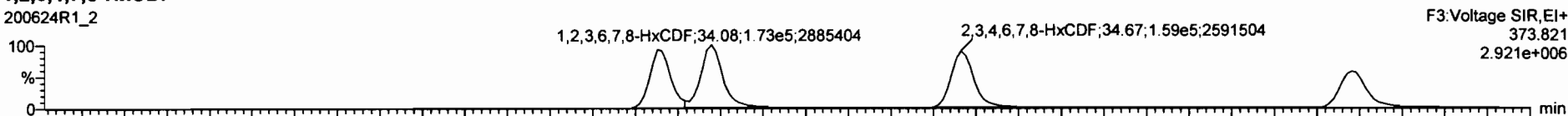
Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time

Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

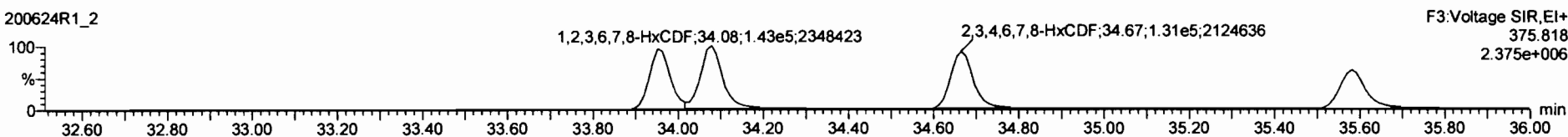
Name: 200624R1\_2, Date: 24-Jun-2020, Time: 09:50:35, ID: B0F0186-BS1 OPR 1, Description: OPR

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

200624R1\_2

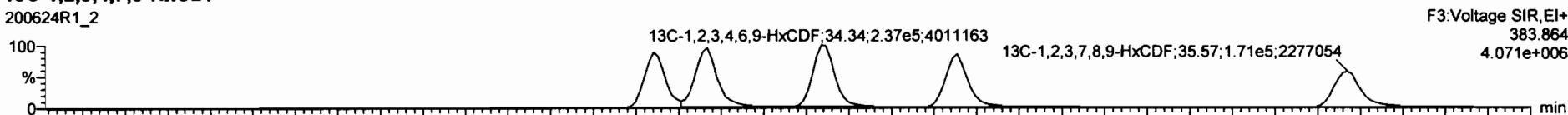


200624R1\_2

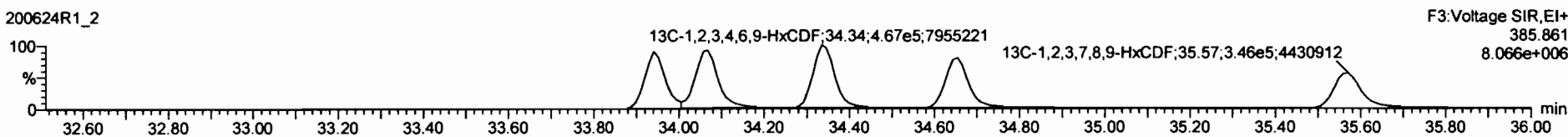


**13C-1,2,3,4,7,8-HxCDF**

200624R1\_2

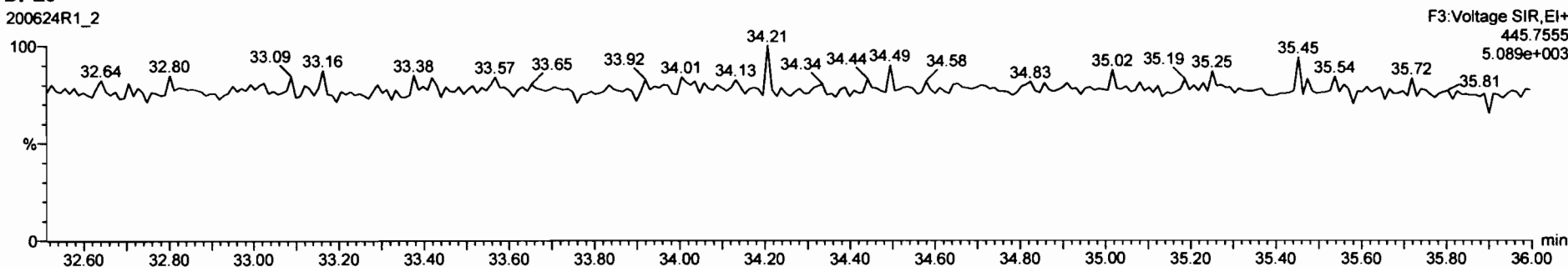


200624R1\_2

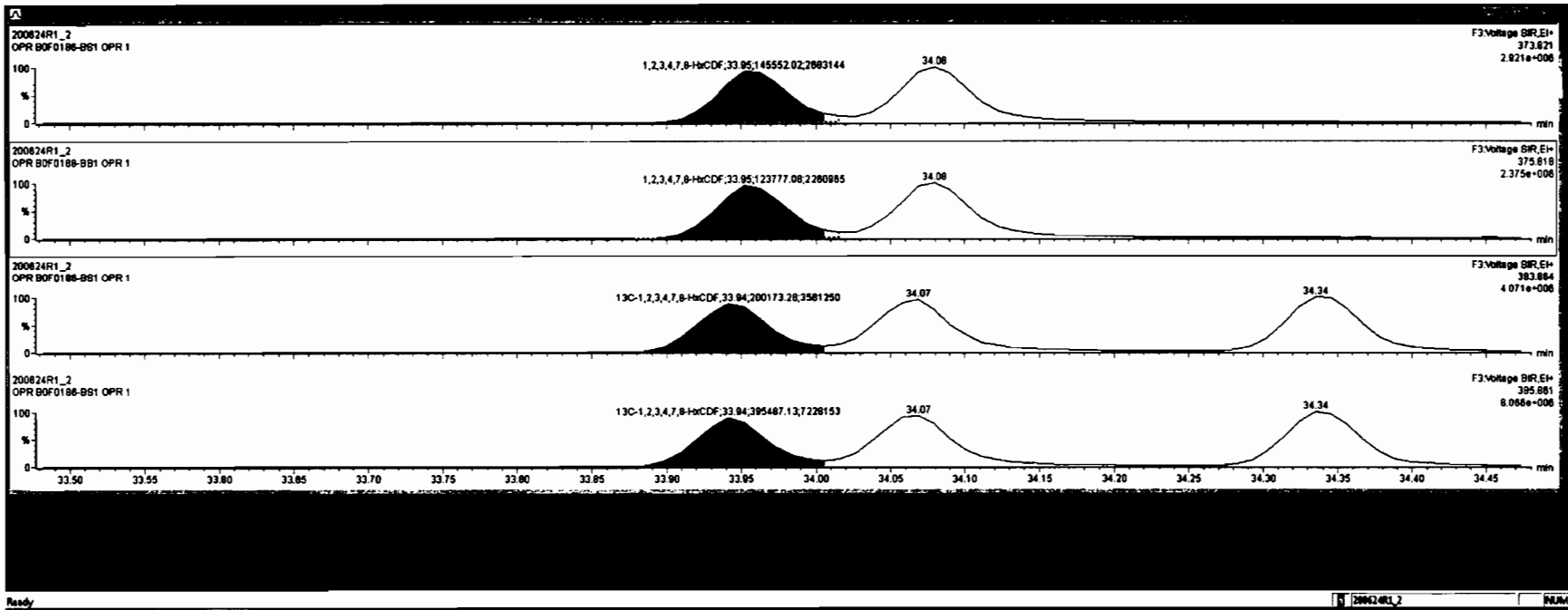


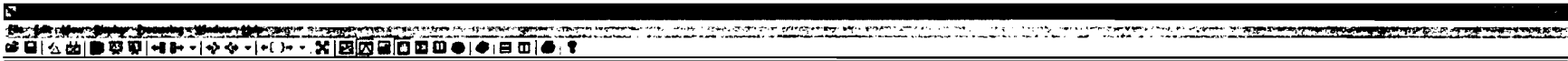
**DPE3**

200624R1\_2

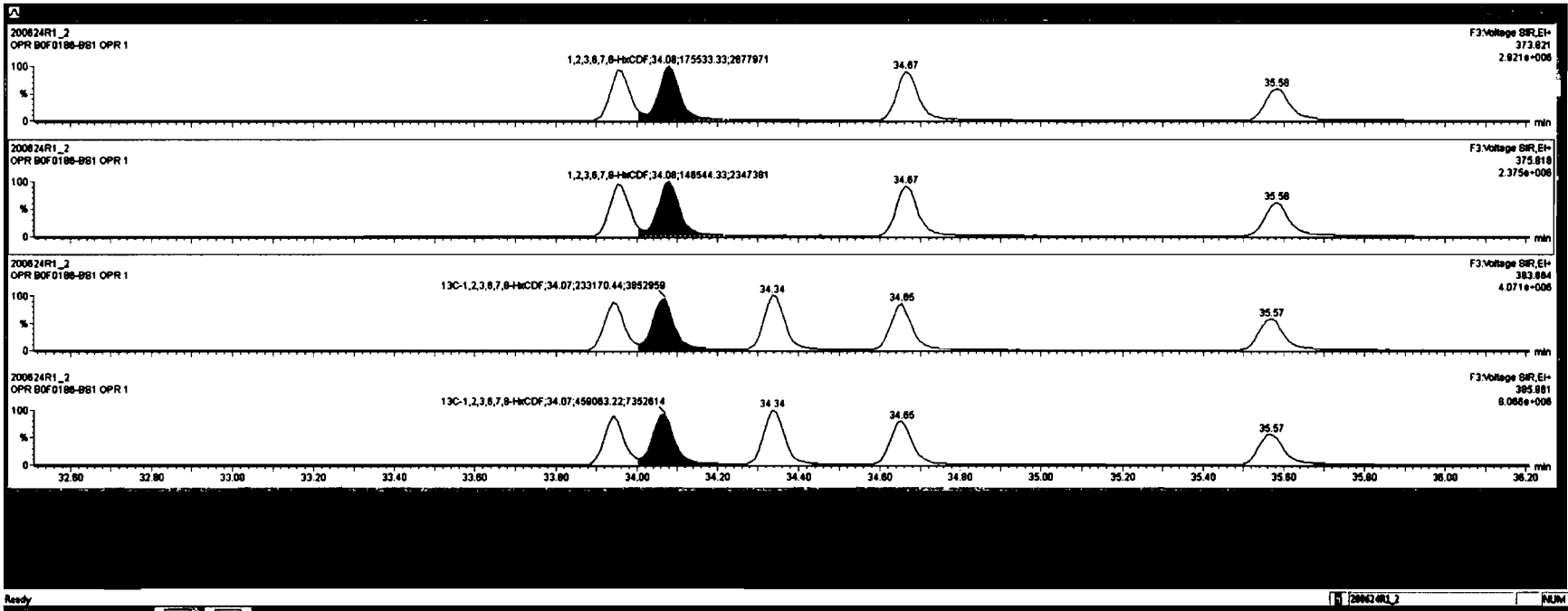


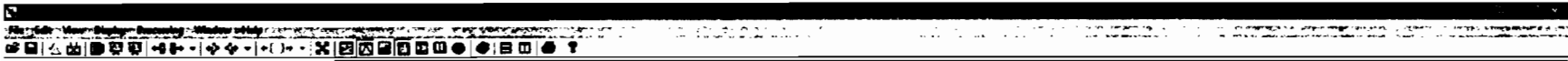
2,3,7,8-TCDF	7.87e4	0.78	NO	0.8803	1.000	28.50	28.48	1.001	189		1.15	189
1,2,3,7,8-PeCDD	3.12e5	0.83	NO	0.8091	1.000	31.47	31.45	1.000	870		1.83	870
1,2,3,4,7,8-HxCDD	1.22e5	1.22	NO	1.0334	1.000	34.82	34.84	1.001	841		3.26	841
1,2,3,6,7,8-HxCDD	2.88e5	1.24	NO	0.8823	1.000	34.82	34.83	1.000	1080		2.52	1080
1,2,3,7,8-HxCDD	2.43e5	1.23	NO	0.8896	1.000	36.22	36.22	1.000	1030		2.86	1030
1,2,3,4,6,7,8-HpCDD	1.71e5	1.01	NO	0.8838	1.000	38.76	38.76	1.000	1030		3.84	1030
OCDD	2.98e5	0.89	NO	0.9138	1.000	41.74	41.75	1.000	2020		4.38	2020
2,3,7,8-TCDF	8.35e4	0.73	NO	0.7810	1.000	25.80	25.59	1.001	203		0.877	203
1,2,3,7,8-PeCDF	4.41e5	1.55	NO	0.8825	1.000	30.18	30.17	1.000	977		2.70	977
2,3,4,7,8-PeCDF	4.53e5	1.56	NO	0.8348	1.000	31.18	31.16	1.000	982		2.55	982



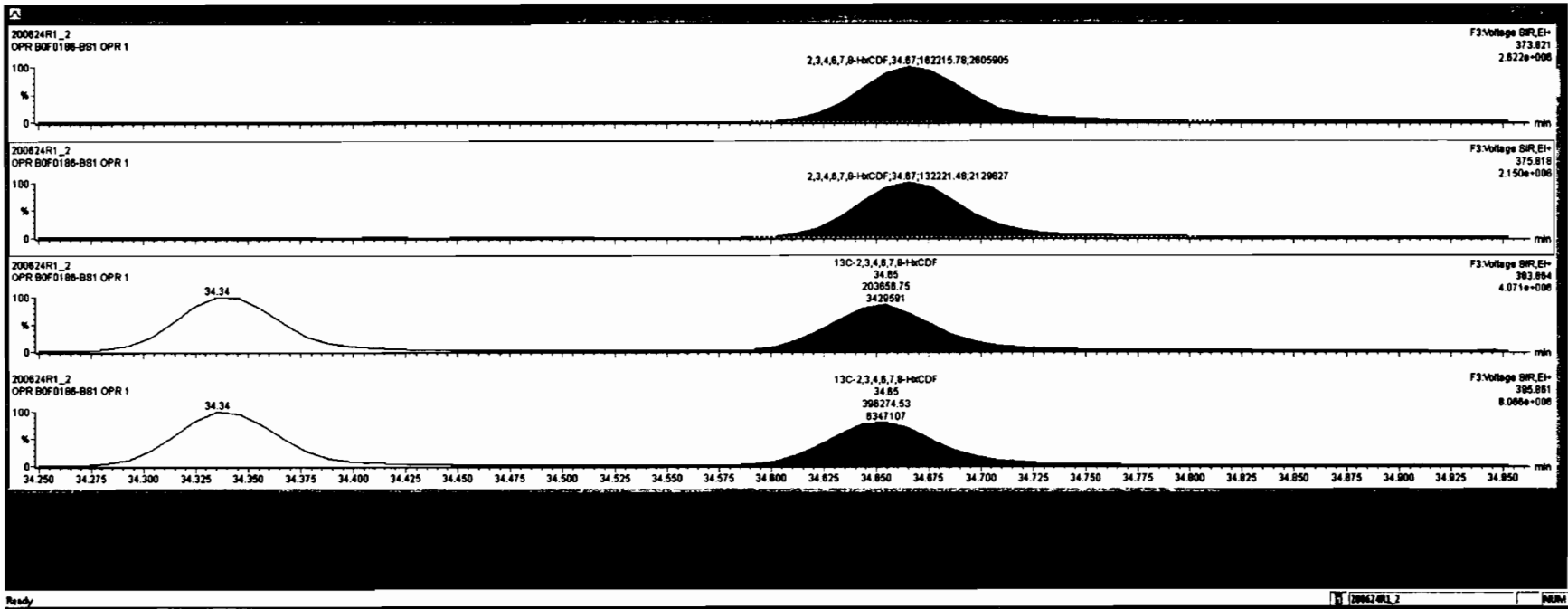


1,2,3,6,7,8-HxCDF	2.80e5	1.21	NO	0.8241	1.000	34.88	34.87	1.000	1040		3.85	1040
1,2,3,7,8-HxCDF	2.20e5	1.25	NO	0.8707	1.000	35.57	35.58	1.000	1020		5.74	1020
1,2,3,4,7,8-HxCDF	2.02e5	1.01	NO	0.8724	1.000	37.28	37.28	1.001	1070		4.68	1070
1,2,3,4,7,8-HxCDF	1.88e5	0.98	NO	1.0128	1.000	38.30	38.31	1.000	1110		5.12	1110
OCDF	3.05e5	0.85	NO	0.8095	1.000	41.83	41.84	1.000	2070		4.82	2070
13C-2,3,7,8-TCDF	8.15e5	0.77	NO	1.1983	1.000	28.48	28.47	1.028	1880	83.1	2.88	
13C-1,2,3,7,8-PeCDD	7.67e5	0.83	NO	0.8480	1.000	31.87	31.85	1.218	1880	83.0	3.13	
13C-1,2,3,4,7,8-HxCDD	4.88e5	1.28	NO	0.7790	1.000	34.82	34.81	1.014	1470	83.8	5.05	
13C-1,2,3,6,7,8-HxCDD	5.94e5	1.25	NO	1.0187	1.000	34.83	34.82	1.017	1880	83.1	3.87	



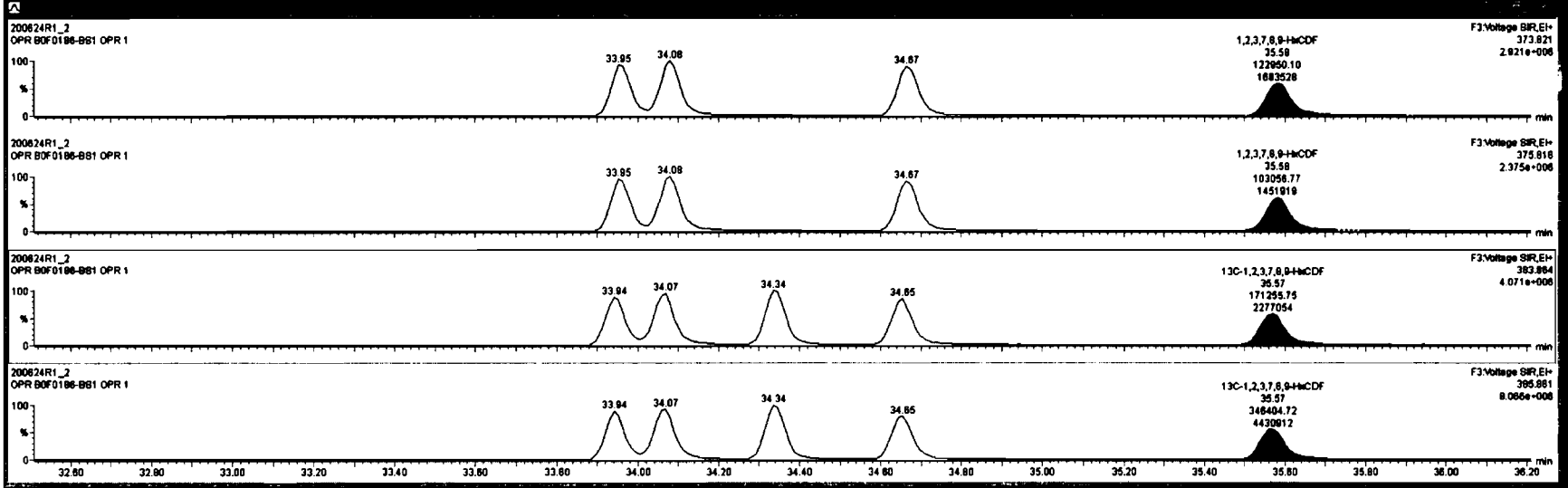


1,2,3,8,7,8-HxCDF	3.22e5	1.20	NO	0.8862	1.000	34.08	34.08	1.000	1050		3.38	1050
1,2,3,7,8-HxCDF	2.30e5	1.25	NO	0.8707	1.000	35.57	35.58	1.000	1020		5.74	1020
1,2,3,4,6,7,8-HxCDF	2.02e5	1.01	NO	0.8734	1.000	37.36	37.36	1.001	1070		4.58	1070
1,2,3,4,7,8-HxCDF	1.58e5	0.88	NO	1.0128	1.000	38.30	38.31	1.000	1110		5.12	1110
OCDF	3.86e5	0.85	NO	0.8085	1.000	41.83	41.94	1.000	2070		4.82	2070
13C-2,3,7,8-TCDF	8.15e5	0.77	NO	1.1953	1.000	28.48	28.47	1.028	1880	95.1	2.98	
13C-1,2,3,7,8-PeCDD	7.87e5	0.83	NO	0.8480	1.000	31.87	31.45	1.218	1880	98.0	3.13	
13C-1,2,3,4,7,8-HxCDD	4.58e5	1.28	NO	0.7790	1.000	34.82	34.81	1.014	1870	83.8	5.05	
13C-1,2,3,8,7,8-HxCDD	5.94e5	1.25	NO	1.0187	1.000	34.83	34.82	1.017	1880	85.1	3.87	





1,2,3,8,7,9-HxCDF	3.22e5	1.20	NO	0.8982	1.000	34.08	34.08	1.000	1050		3.30	1050
2,3,4,8,7,9-HxCDF	2.94e5	1.23	NO	0.8541	1.000	34.88	34.87	1.000	1050		3.85	1050
1,2,3,4,8,7,9-HxCDF	2.02e5	1.01	NO	0.8734	1.000	37.38	37.38	1.001	1070		4.58	1070
1,2,3,4,7,8,9-HxCDF	1.58e5	0.98	NO	1.0128	1.000	38.30	38.31	1.000	1110		5.12	1110
OCDF	3.05e5	0.85	NO	0.8085	1.000	41.83	41.84	1.000	2070		4.82	2070
13C-2,3,7,8-TCDF	8.15e5	0.77	NO	1.1983	1.000	28.48	28.47	1.828	1880	83.1	2.98	
13C-1,2,3,7,8-PeCDD	7.07e5	0.83	NO	0.8480	1.000	31.87	31.85	1.219	1880	88.0	3.13	
13C-1,2,3,4,7,8-HxCDD	4.58e5	1.26	NO	0.7790	1.000	34.82	34.81	1.014	1670	83.8	5.05	
13C-1,2,3,8,7,9-HxCDD	5.84e5	1.26	NO	1.0187	1.000	34.83	34.82	1.017	1880	83.1	3.87	



Ready

200824R1\_2

NUM

Dataset: Untitled

Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time  
Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

Name: 200624R1\_2, Date: 24-Jun-2020, Time: 09:50:35, ID: B0F0186-BS1 OPR 1, Description: OPR

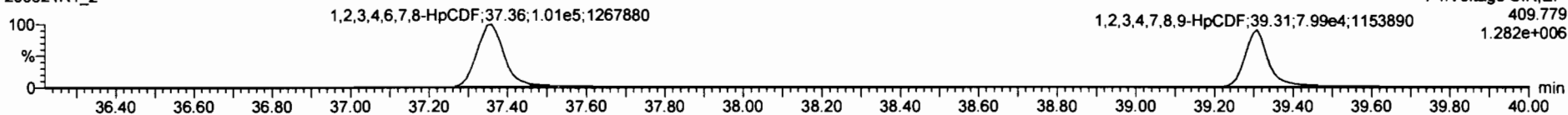
**1,2,3,4,6,7,8-HpCDF**

200624R1\_2



F4:Voltage SIR,El+  
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1.291e+006

200624R1\_2



F4:Voltage SIR,El+  
409.779  
1.282e+006

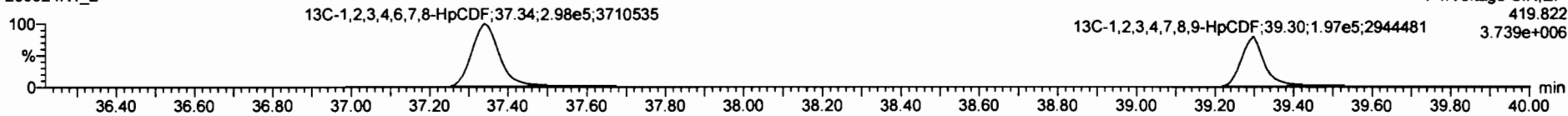
**13C-1,2,3,4,6,7,8-HpCDF**

200624R1\_2



F4:Voltage SIR,El+  
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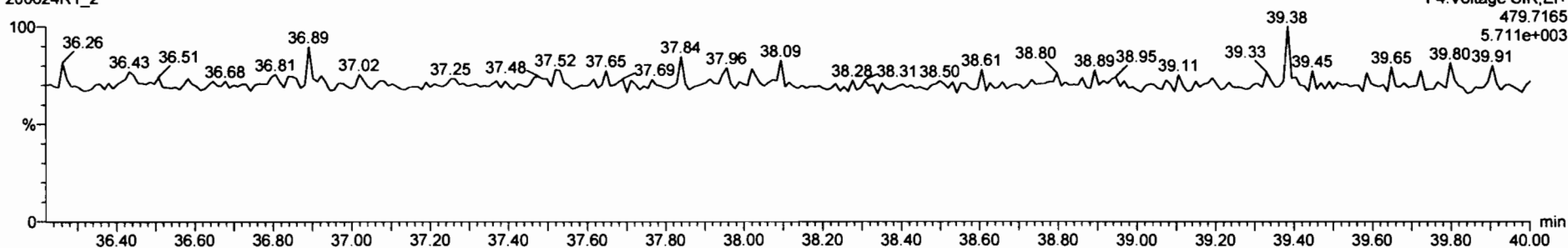
200624R1\_2



F4:Voltage SIR,El+  
419.822  
3.739e+006

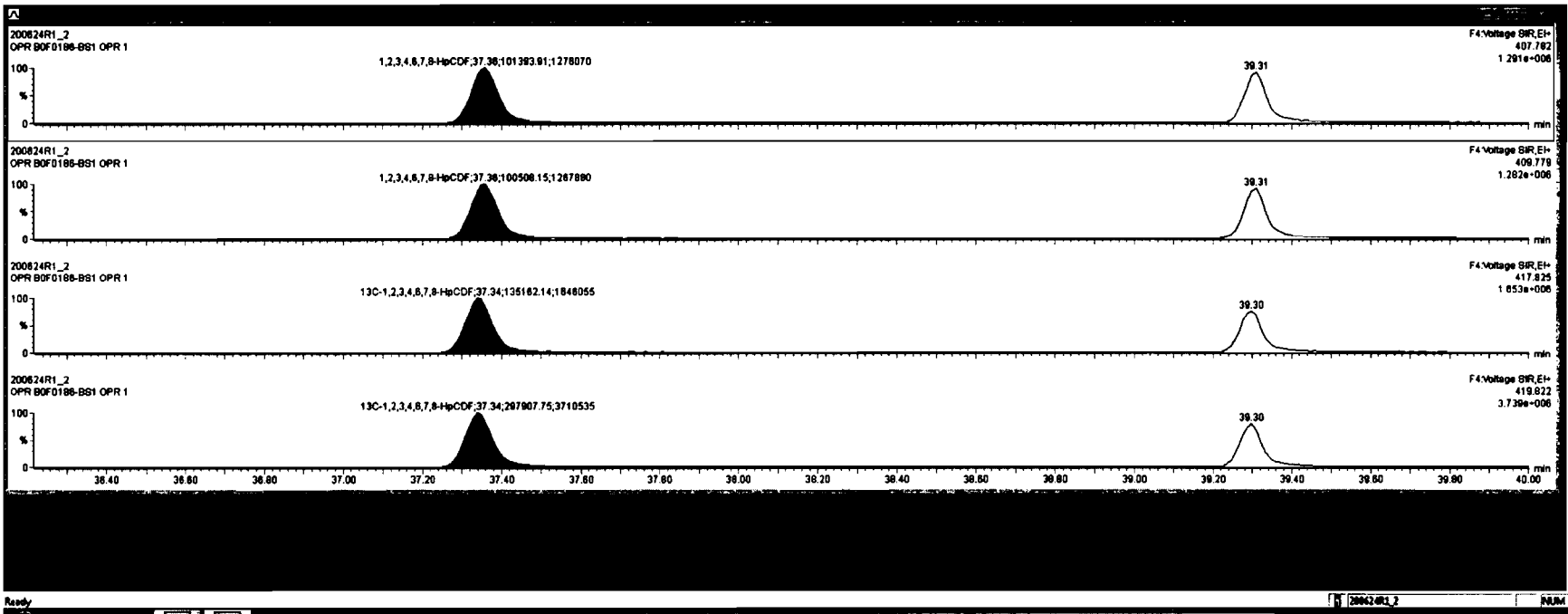
**DPE4**

200624R1\_2

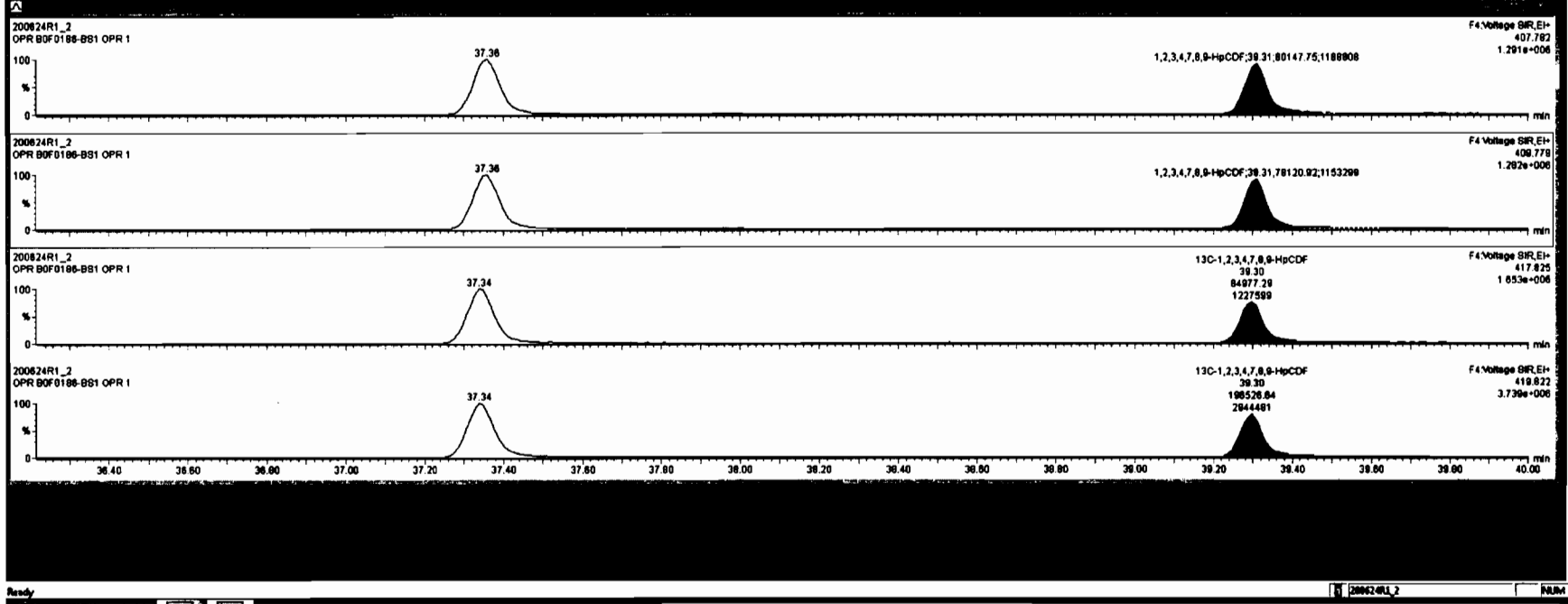


F4:Voltage SIR,El+  
479.7165  
5.711e+003

1,2,3,6,7,8-HpCDF	3.22e5	1.20	NO	0.8992	1.000	34.98	34.08	1.000	1000		3.30	1000
2,3,4,6,7,8-HpCDF	2.84e5	1.23	NO	0.8341	1.000	34.89	34.87	1.000	1000		3.65	1000
1,2,3,7,8,9-HpCDF	2.28e5	1.19	NO	0.8707	1.000	36.87	36.28	1.000	1000		5.74	1000
1,2,3,4,7,8,9-HpCDF	1.58e5	0.98	NO	1.0128	1.000	38.30	38.31	1.000	1110		5.12	1110
OCDF	3.05e5	0.85	NO	0.8086	1.000	41.83	41.94	1.000	2070		4.82	2070
13C-2,3,7,8-TCDF	9.15e5	0.77	NO	1.1983	1.000	28.48	28.47	1.028	1880	83.1	2.98	
13C-1,2,3,7,8-PeCDD	7.07e5	0.83	NO	0.8460	1.000	31.87	31.45	1.218	1880	88.0	3.13	
13C-1,2,3,4,7,8-HxCDD	4.58e5	1.28	NO	0.7790	1.000	34.82	34.81	1.014	1870	83.8	5.05	
13C-1,2,3,6,7,8-HxCDD	5.94e5	1.25	NO	1.0167	1.000	34.83	34.82	1.017	1880	83.1	3.87	



Peak	Retention Time (min)	Area	Height	Width	Resolution	Integration	Integration	Integration	Integration	Integration
1	37.36	3.22e5	1.20	NO	0.8892	1.000	34.08	34.08	1.000	1000
2	39.30	2.94e5	1.23	NO	0.8841	1.000	34.88	34.87	1.000	1000
3	37.37	2.26e5	1.18	NO	0.8707	1.000	35.57	35.58	1.000	1000
4	39.34	2.02e5	1.01	NO	0.8734	1.000	37.38	37.38	1.001	1070
5	37.34	3.05e5	0.85	NO	0.8085	1.000	41.83	41.84	1.000	2070
6	39.30	8.15e5	0.77	NO	1.1983	1.000	28.48	28.47	1.028	1880
7	37.34	7.07e5	0.83	NO	0.8480	1.000	31.87	31.85	1.218	1980
8	39.34	4.58e5	1.28	NO	0.7790	1.000	34.82	34.81	1.014	1670
9	39.30	5.94e5	1.25	NO	1.0187	1.000	34.83	34.82	1.017	1880

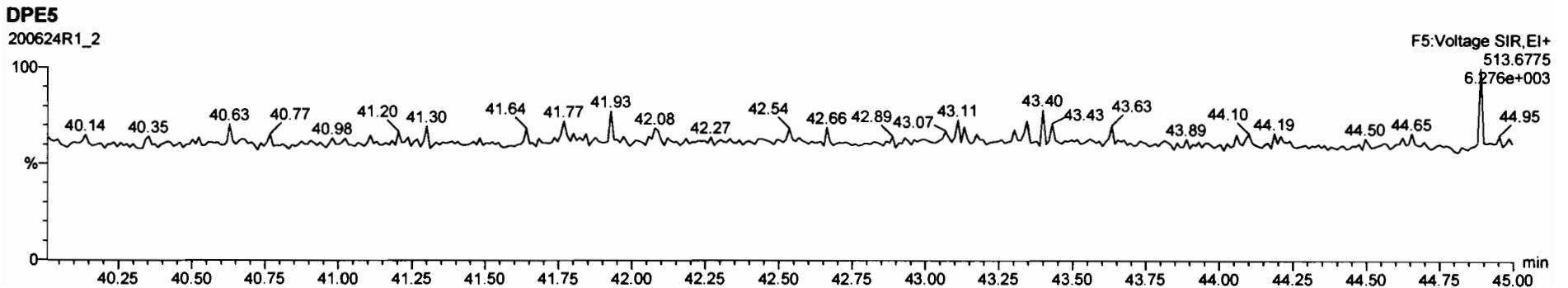
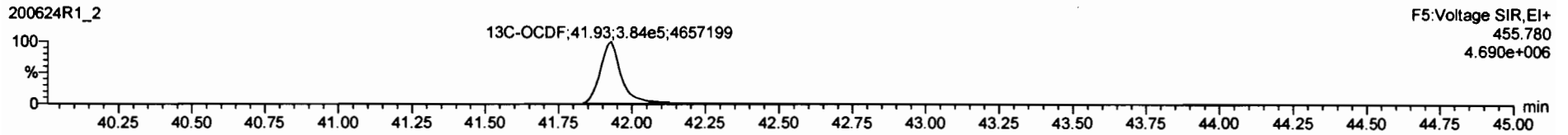
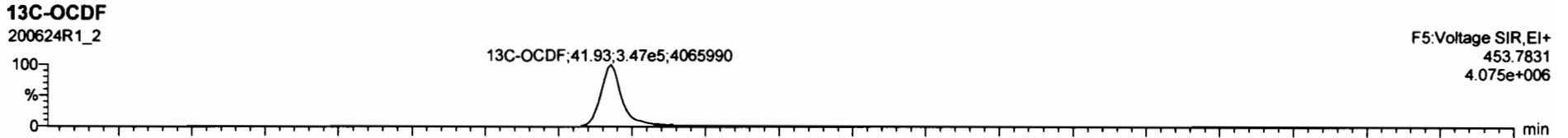
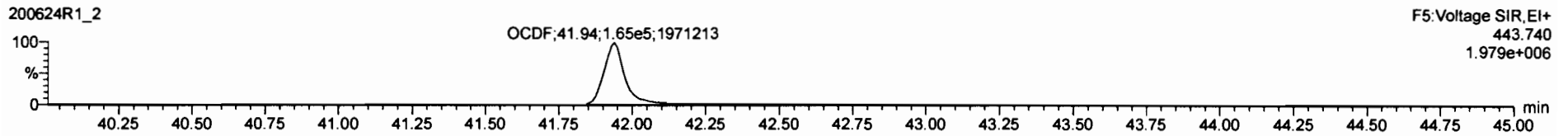
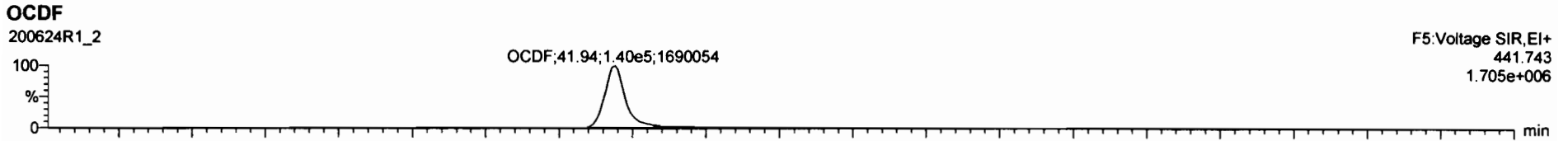


Dataset: Untitled

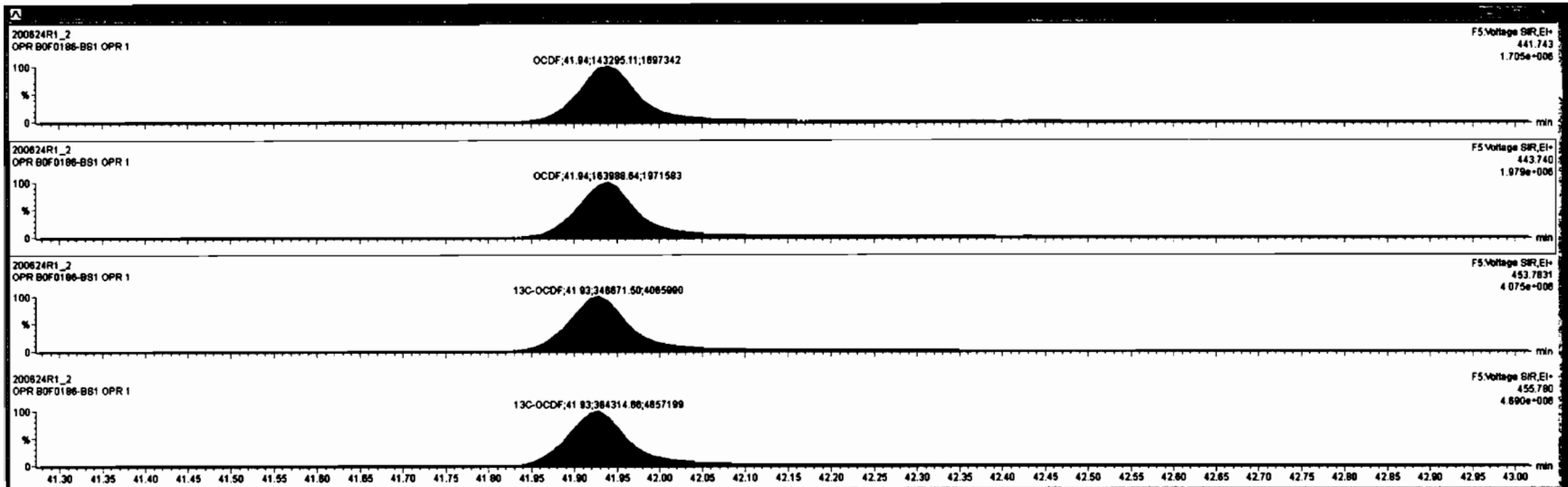
Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time

Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

Name: 200624R1\_2, Date: 24-Jun-2020, Time: 09:50:35, ID: B0F0186-BS1 OPR 1, Description: OPR



Item	Value	Unit	Spec	Min	Max	Min	Max	Min	Max	Min	Max
1.2,3,6,7,8-HxCDF	3.22e5	1.20	NO	0.8892	1.000	34.08	34.08	1.000	1050		3.20
2,3,4,6,7,8-HxCDF	2.94e5	1.23	NO	0.8341	1.000	34.68	34.67	1.000	1080		3.85
1.2,3,7,8-HxCDF	2.26e5	1.19	NO	0.8707	1.000	35.57	35.58	1.000	1000		5.74
1.2,3,4,6,7,8-HxCDF	2.02e5	1.01	NO	0.8734	1.000	37.38	37.38	1.001	1070		4.98
1.2,3,4,7,8-HxCDF	1.58e5	1.03	NO	1.0128	1.000	38.30	38.31	1.000	1110		5.12
13C-2,3,7,8-TCDF	8.15e5	0.77	NO	1.1983	1.000	28.48	28.47	1.028	1880	85.1	2.88
13C-1,2,3,7,8-PeCDD	7.07e5	0.83	NO	0.8480	1.000	31.87	31.45	1.218	1880	90.0	3.13
13C-1,2,3,4,7,8-PeCDD	4.58e5	1.26	NO	0.7790	1.000	34.82	34.81	1.014	1870	83.8	5.05
13C-1,2,3,8,7,8-PeCDD	5.94e5	1.25	NO	1.0167	1.000	34.83	34.82	1.017	1880	83.1	3.87



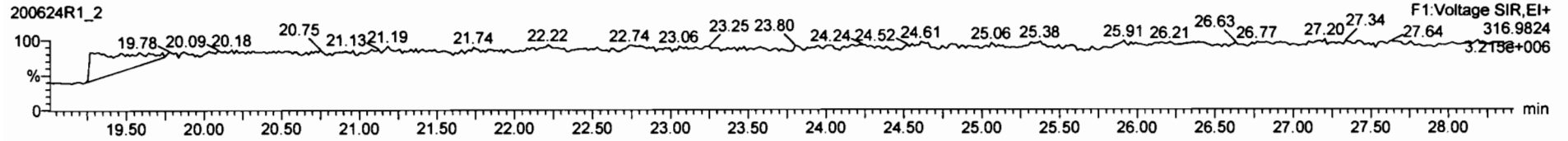
Dataset: Untitled

Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time

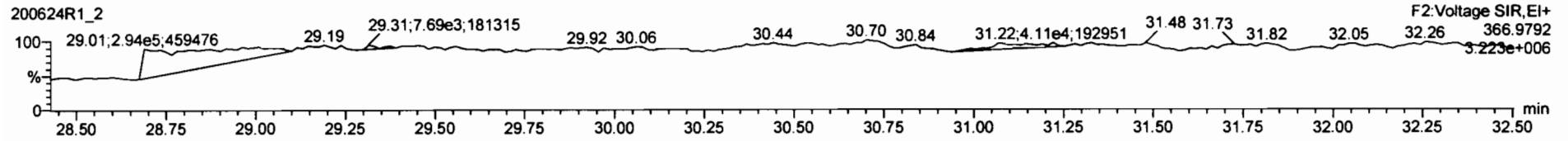
Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

Name: 200624R1\_2, Date: 24-Jun-2020, Time: 09:50:35, ID: B0F0186-BS1 OPR 1, Description: OPR

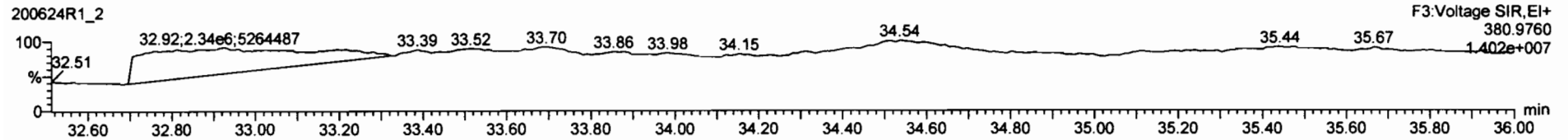
**PFK1**



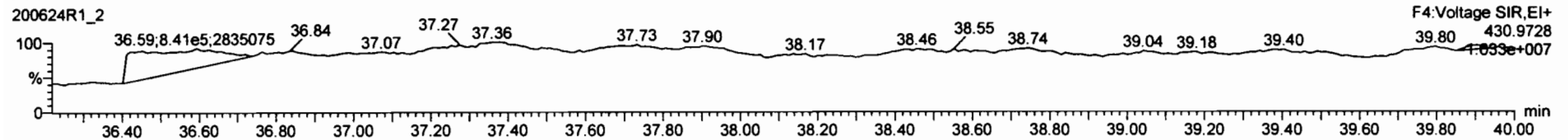
**PFK2**



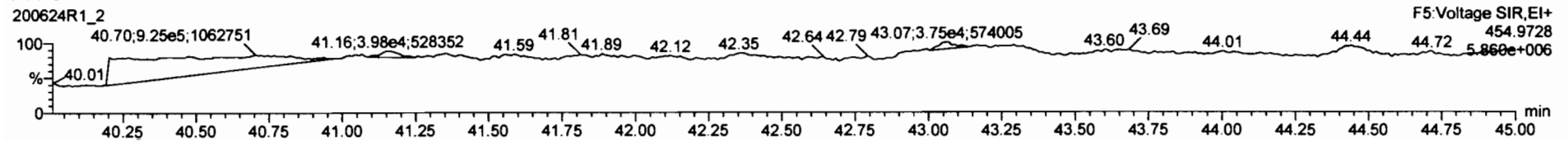
**PFK3**



**PFK4**



**PFK5**



Dataset: U:\VG12.PRO\Results\200624R1\200624R1-5B.qld

Last Altered: Tuesday, June 30, 2020 11:27:36 AM Pacific Daylight Time  
Printed: Tuesday, June 30, 2020 11:30:59 AM Pacific Daylight Time

HN 06/30/2020

07/10/2020

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: 200624R1\_5, Date: 24-Jun-2020, Time: 12:11:38, ID: 2001033-01RE1 PDI-087SC-B-00-02-200509 2.54, Description: PDI-087SC-B-00-02-200509

Comp	RA	n/y	RRF	w/w	Peak RT	RR	RRF	w/w	RRF	w/w	RRF	w/w	RRF	w/w
1 2,3,7,8-TCDD		NO	0.888	1.022	26.516		1.001							1.71
2 1,2,3,7,8-PeCDD		NO	0.908	1.022	31.473		1.001							1.18
3 1,2,3,4,7,8-HxCDD														2.61
4 1,2,3,6,7,8-HxCDD	2.05e4	1.29	NO	0.892	1.022	34.932	34.95	1.000	1.001	88.137				2.69 88.1
5 1,2,3,7,8,9-HxCDD	7.30e3	1.29	NO	0.887	1.022	35.230	35.22	1.000	1.000	35.888				3.18 35.9
6 1,2,3,4,6,7,8-HpCDD	1.56e5	1.03	NO	0.864	1.022	38.767	38.77	1.000	1.000	1211.5				7.08 1210
7 OCDD	5.18e5	0.89	NO	0.914	1.022	41.748	41.77	1.000	1.001	5878.5				9.50 5880
8 2,3,7,8-TCDF	1.59e3	0.83	NO	0.751	1.022	25.612	25.63	1.001	1.002	6.4715	OK			1.61 6.47
9 1,2,3,7,8-PeCDF	2.53e3	1.52	NO	0.893	1.022	30.190	30.18	1.001	1.001	7.4816				0.915 7.48
10 2,3,4,7,8-PeCDF	9.67e2	1.80	YES	0.935	1.022	31.162	31.16	1.000	1.000	2.8894				0.845 2.63
11 1,2,3,4,7,8-HxCDF	2.71e3	1.22	NO	0.884	1.022	33.952	33.96	1.000	1.000	12.541				1.33 12.5
12 1,2,3,6,7,8-HxCDF	1.44e3	1.26	NO	0.889	1.022	34.079	34.08	1.000	1.000	5.5037				1.27 5.50
13 2,3,4,6,7,8-HxCDF	9.50e2	1.25	NO	0.934	1.022	34.700	34.69	1.001	1.001	3.8642				1.42 3.86
14 1,2,3,7,8,9-HxCDF	2.67e2	1.04	YES	0.871	1.022	35.581	35.59	1.000	1.000	1.4977				2.15 1.38
15 1,2,3,4,6,7,8-HpCDF	5.72e4	1.01	NO	0.873	1.022	37.386	37.37	1.001	1.001	396.69				3.99 397
16 1,2,3,4,7,8,9-HpCDF	5.03e2	1.03	NO	1.01	1.022	39.298	39.32	1.000	1.001	5.5045				5.54 5.50
17 OCDF	1.19e4	0.87	NO	0.806	1.022	41.940	41.96	1.000	1.001	221.63				5.21 222
18 13C-2,3,7,8-TCDD	5.94e5	0.78	NO	1.16	1.022	26.507	26.48	1.026	1.026	1077.5	55.0			4.26
19 13C-1,2,3,7,8-PeCDD	5.72e5	0.62	NO	0.849	1.022	31.692	31.45	1.227	1.218	1413.9	72.2			3.22
20 13C-1,2,3,4,7,8-HxCDD	3.73e5	1.29	NO	0.779	1.022	34.830	34.83	1.014	1.014	1555.6	79.5			7.47
21 13C-1,2,3,6,7,8-HxCDD	5.11e5	1.24	NO	1.02	1.022	34.944	34.93	1.017	1.017	1634.3	83.5			5.73
22 13C-1,2,3,7,8,9-HxCDD	4.49e5	1.23	NO	0.903	1.022	35.215	35.22	1.025	1.025	1616.2	82.6			6.45
23 13C-1,2,3,4,6,7,8-HpCDD	2.91e5	1.03	NO	0.689	1.022	38.739	38.76	1.128	1.128	1372.1	70.1			5.54
24 13C-OCDD	3.77e5	0.84	NO	0.652	1.022	41.761	41.75	1.216	1.216	1880.6	48.0			3.97
25 13C-2,3,7,8-TCDF	6.42e5	0.78	NO	1.06	1.022	25.549	25.59	0.989	0.991	891.14	45.5			3.58
26 13C-1,2,3,7,8-PeCDF	7.42e5	1.59	NO	0.838	1.022	30.076	30.17	1.165	1.168	1301.1	66.5			6.79
27 13C-2,3,4,7,8-PeCDF	7.01e5	1.58	NO	0.817	1.022	31.029	31.15	1.202	1.206	1260.2	64.4			6.97
28 13C-1,2,3,4,7,8-HxCDF	4.78e5	0.50	NO	1.01	1.022	33.961	33.95	0.989	0.989	1539.9	78.7			11.8
29 13C-1,2,3,6,7,8-HxCDF	5.77e5	0.51	NO	1.17	1.022	34.085	34.07	0.992	0.992	1606.8	82.1			10.2
30 13C-2,3,4,6,7,8-HxCDF	5.15e5	0.52	NO	1.02	1.022	34.659	34.67	1.009	1.009	1638.1	83.7			11.6
31 13C-1,2,3,7,8,9-HxCDF	4.01e5	0.53	NO	0.860	1.022	35.558	35.58	1.035	1.036	1515.9	77.4			13.8



Dataset: U:\VG12.PRO\Results\200624R1\200624R1-5B.qld

Last Altered: Tuesday, June 30, 2020 11:27:36 AM Pacific Daylight Time

Printed: Tuesday, June 30, 2020 11:30:59 AM Pacific Daylight Time

Name: 200624R1\_5, Date: 24-Jun-2020, Time: 12:11:38, ID: 2001033-01RE1 PDI-087SC-B-00-02-200509 2.54, Description: PDI-087SC-B-00-02-200509

	CP	RA	NY	RR	WWT									
32	13C-1,2,3,4,6,7,8-HpCDF	3.23e5	0.43	NO	0.774	1.022	37.307	37.35	1.086	1.087	1354.9	69.2	4.67	
33	13C-1,2,3,4,7,8,9-HpCDF	1.77e5	0.42	NO	0.521	1.022	39.336	39.30	1.145	1.144	1102.1	56.3	6.95	
34	13C-OCDF	2.61e5	0.87	NO	0.746	1.022	41.933	41.94	1.221	1.221	1138.3	29.1	3.71	
35	37Cl-2,3,7,8-TCDD	2.51e5			1.04	1.022	26.538	26.50	1.028	1.026	508.03	64.9	0.680	
36	13C-1,2,3,4-TCDD	9.33e5	0.78	NO	1.00	1.022	25.890	25.83	1.000	1.000	1957.6	100	4.93	
37	13C-1,2,3,4-TCDF	1.33e6	0.78	NO	1.00	1.022	24.360	24.15	1.000	1.000	1957.6	100	3.79	
38	13C-1,2,3,4,6,9-HxCDF	6.03e5	0.51	NO	1.00	1.022	34.420	34.35	1.000	1.000	1957.6	100	11.9	
39	Total Tetra-Dioxins				0.888	1.022	24.620		0.000				1.12	
40	Total Penta-Dioxins				0.908	1.022	29.960		0.000		12.688		1.18	25.8
41	Total Hexa-Dioxins				0.892	1.022	33.635		0.000		670.44		2.94	670
42	Total Hepta-Dioxins				0.864	1.022	37.640		0.000		2186.3		7.08	2190
43	Total Tetra-Furans				0.751	1.022	23.610		0.000		19.308		1.61	20.4
44	1st Func. Penta-Furans				0.893	1.022	27.580		0.000		16.334		0.509	16.3
45	Total Penta-Furans				0.893	1.022	29.275		0.000		20.342		0.901	28.1
46	Total Hexa-Furans				0.934	1.022	33.555		0.000		157.88		1.44	161
47	Total Hepta-Furans				0.873	1.022	37.835		0.000		703.32		4.85	703

Dataset: U:\VG12.PRO\Results\200624R1\200624R1-5B.qld

Last Altered: Tuesday, June 30, 2020 11:27:36 AM Pacific Daylight Time  
 Printed: Tuesday, June 30, 2020 11:30:59 AM 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: 200624R1\_5, Date: 24-Jun-2020, Time: 12:11:38, ID: 2001033-01RE1 PDI-087SC-B-00-02-200509 2.54, Description: PDI-087SC-B-00-02-200509

**Tetra-Dioxins**

	Area	m1 Height	m2 Height	m1 Resp	m2 Resp	PA	NY	Resp	Conc	EMPC
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**Penta-Dioxins**

	Area	m1 Height	m2 Height	m1 Resp	m2 Resp	PA	NY	Resp	Conc	EMPC	
Total Penta-Dioxins	29.22	1.582e4	2.753e4	1.338e3	2.029e3	0.66	NO	3.368e3	12.688	12.688	1.18
Total Penta-Dioxins	29.73	2.258e3	3.882e3	1.051e2	2.587e2	0.41	YES	0.000e0	0.00000	1.0244	1.18
Total Penta-Dioxins	30.23	1.975e4	2.475e4	1.047e3	1.332e3	0.79	YES	0.000e0	0.00000	8.1775	1.18
Total Penta-Dioxins	30.37	2.211e3	6.879e3	5.999e1	1.556e2	0.39	YES	0.000e0	0.00000	0.58479	1.18
Total Penta-Dioxins	30.49	8.365e3	1.207e4	3.454e2	6.533e2	0.53	YES	0.000e0	0.00000	3.3670	1.18

**Hexa-Dioxins**

	Area	m1 Height	m2 Height	m1	m2	PA	NY	Resp	Conc	EMPC	
Total Hexa-Dioxins	33.33	2.218e5	1.606e5	1.137e4	8.793e3	1.29	NO	2.016e4	99.529	99.529	2.94
Total Hexa-Dioxins	33.90	2.826e4	2.157e4	1.559e3	1.287e3	1.21	NO	2.846e3	14.047	14.047	2.94
Total Hexa-Dioxins	34.15	6.358e5	5.232e5	4.812e4	3.957e4	1.22	NO	8.769e4	432.84	432.84	2.94
1,2,3,6,7,8-HxCDD	34.95	1.944e5	1.454e5	1.159e4	8.958e3	1.29	NO	2.054e4	88.137	88.137	2.69
1,2,3,7,8,9-HxCDD	35.22	5.815e4	5.370e4	4.117e3	3.184e3	1.29	NO	7.301e3	35.888	35.888	3.18

**Hepta-Dioxins**

	Area	m1 Height	m2 Height	m1	m2	PA	NY	Resp	Conc	EMPC	
Total Hepta-Dioxins	37.76	7.822e5	7.606e5	6.307e4	6.211e4	1.02	NO	1.252e5	974.72	974.72	7.08
1,2,3,4,6,7,8-HpCDD	38.77	1.059e6	1.032e6	7.897e4	7.663e4	1.03	NO	1.556e5	1211.5	1211.5	7.08

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200624R1\200624R1-5B.qld

Last Altered: Tuesday, June 30, 2020 11:27:36 AM Pacific Daylight Time

Printed: Tuesday, June 30, 2020 11:30:59 AM Pacific Daylight Time

Name: 200624R1\_5, Date: 24-Jun-2020, Time: 12:11:38, ID: 2001033-01RE1 PDI-087SC-B-00-02-200509 2.54, Description: PDI-087SC-B-00-02-200509

**Tetra-Furans**

	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	NO	Area	Area	Area	Area
Total Tetra-Furans	20.89	1.333e3	2.541e3	5.488e1	7.381e1	0.74	NO	1.287e2	0.52215	0.52215	1.61
Total Tetra-Furans	21.51	3.876e3	5.537e3	4.309e2	5.624e2	0.77	NO	9.933e2	4.0303	4.0303	1.61
Total Tetra-Furans	24.06	2.636e3	3.986e3	1.704e2	2.535e2	0.67	NO	4.240e2	1.7202	1.7202	1.61
Total Tetra-Furans	24.67	9.518e3	1.157e4	7.038e2	9.138e2	0.77	NO	1.618e3	6.5634	6.5634	1.61
2,3,7,8-TCDF	25.63	1.254e4	1.085e4	7.229e2	8.721e2	0.83	NO	1.595e3	6.4715	6.4715	1.61
Total Tetra-Furans	27.61	2.256e3	2.781e3	1.418e2	1.558e2	0.91	YES	0.000e0	0.00000	1.1190	1.61

**Penta-Furans function 1**

	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	NO	Area	Area	Area	
1st Func. Penta-Furans	27.59	4.951e4	3.579e4	3.296e3	2.076e3	1.59	NO	5.372e3	16.334	16.334	0.509

**Penta-Furans**

	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	NO	Area	Area	Area	Area
Total Penta-Furans	29.04	2.385e3	2.014e3	1.255e2	7.265e1	1.73	NO	1.981e2	0.60229	0.60229	0.901
Total Penta-Furans	29.19	2.433e4	1.697e4	1.609e3	1.043e3	1.54	NO	2.653e3	8.0646	8.0646	0.901
Total Penta-Furans	29.79	9.282e3	6.320e3	4.955e2	2.538e2	1.95	YES	0.000e0	0.00000	1.9679	0.901
Total Penta-Furans	29.99	5.286e3	4.074e3	2.223e2	1.532e2	1.45	NO	3.755e2	1.1417	1.1417	0.901
1,2,3,7,8-PeCDF	30.18	2.852e4	1.798e4	1.528e3	1.004e3	1.52	NO	2.532e3	7.4816	7.4816	0.915
Total Penta-Furans	30.46	9.474e3	1.149e4	6.379e2	5.151e2	1.24	YES	0.000e0	0.00000	3.1907	0.901
2,3,4,7,8-PeCDF	31.16	1.881e4	1.058e4	6.213e2	3.453e2	1.80	YES	9.666e2	0.00000	2.6322	0.845
Total Penta-Furans	31.18	1.513e4	1.081e4	6.325e2	3.712e2	1.70	NO	1.004e3	3.0516	3.0516	0.901

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200624R1\200624R1-5B.qid

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Printed: Tuesday, June 30, 2020 11:30:59 AM Pacific Daylight Time

Name: 200624R1\_5, Date: 24-Jun-2020, Time: 12:11:38, ID: 2001033-01RE1 PDI-087SC-B-00-02-200509 2.54, Description: PDI-087SC-B-00-02-200509

**Hexa-Furans**

	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Isotope	Area	Area	Area	
Total Hexa-Furans	32.79	4.440e4	3.642e4	2.144e3	1.866e3	1.15	NO	4.010e3	17.055	17.055	1.44
Total Hexa-Furans	32.95	1.114e5	9.796e4	5.573e3	4.945e3	1.13	NO	1.052e4	44.739	44.739	1.44
Total Hexa-Furans	33.50	1.785e5	1.452e5	9.573e3	7.865e3	1.22	NO	1.744e4	74.173	74.173	1.44
1,2,3,4,7,8-HxCDF	33.96	3.054e4	2.314e4	1.485e3	1.220e3	1.22	NO	2.706e3	12.541	12.541	1.33
1,2,3,6,7,8-HxCDF	34.08	1.213e4	8.956e3	8.030e2	6.397e2	1.26	NO	1.443e3	5.5037	5.5037	1.27
2,3,4,6,7,8-HxCDF	34.69	8.974e3	7.987e3	5.271e2	4.228e2	1.25	NO	9.499e2	3.8642	3.8642	1.42
1,2,3,7,8,9-HxCDF	35.59	3.664e3	3.079e3	1.360e2	1.312e2	1.04	YES	2.671e2	0.00000	1.3771	2.13
Total Hexa-Furans	35.62	5.583e3	4.124e3	2.802e2	1.952e2	1.44	YES	0.000e0	0.00000	1.8600	1.44

**Hepta-Furans**

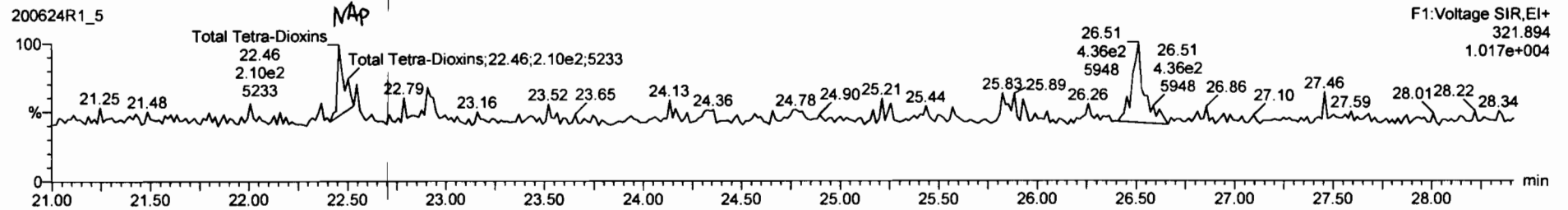
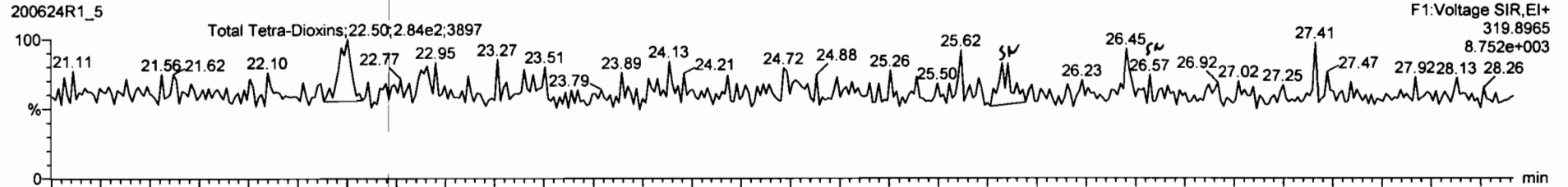
	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Isotope	Area	Area	Area	
1,2,3,4,6,7,8-HpCDF	37.37	3.734e5	3.616e5	2.870e4	2.846e4	1.01	NO	5.716e4	396.69	396.69	3.99
Total Hepta-Furans	37.98	2.007e5	2.206e5	1.662e4	1.694e4	0.98	NO	3.357e4	301.13	301.13	4.85
1,2,3,4,7,8,9-HpCDF	39.32	4.422e3	4.464e3	2.551e2	2.482e2	1.03	NO	5.033e2	5.5045	5.5045	5.54

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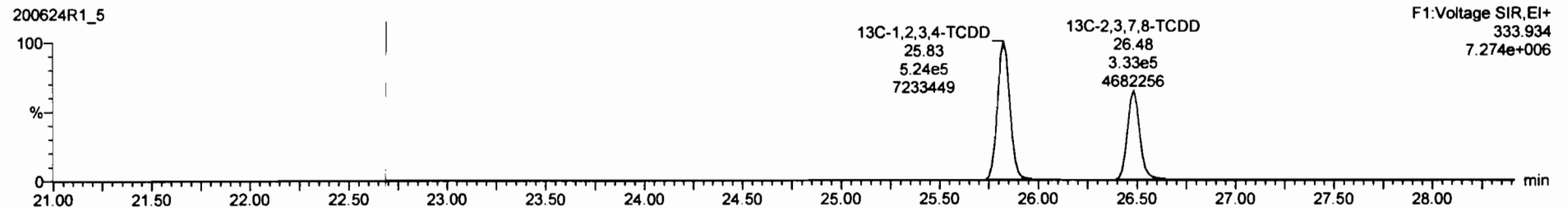
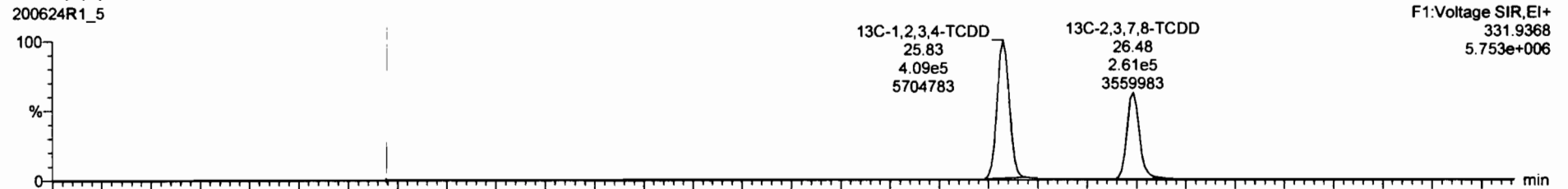
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Name: 200624R1\_5, Date: 24-Jun-2020, Time: 12:11:38, ID: 2001033-01RE1 PDI-087SC-B-00-02-200509 2.54, Description: PDI-087SC-B-00-02-200509

2,3,7,8-TCDD

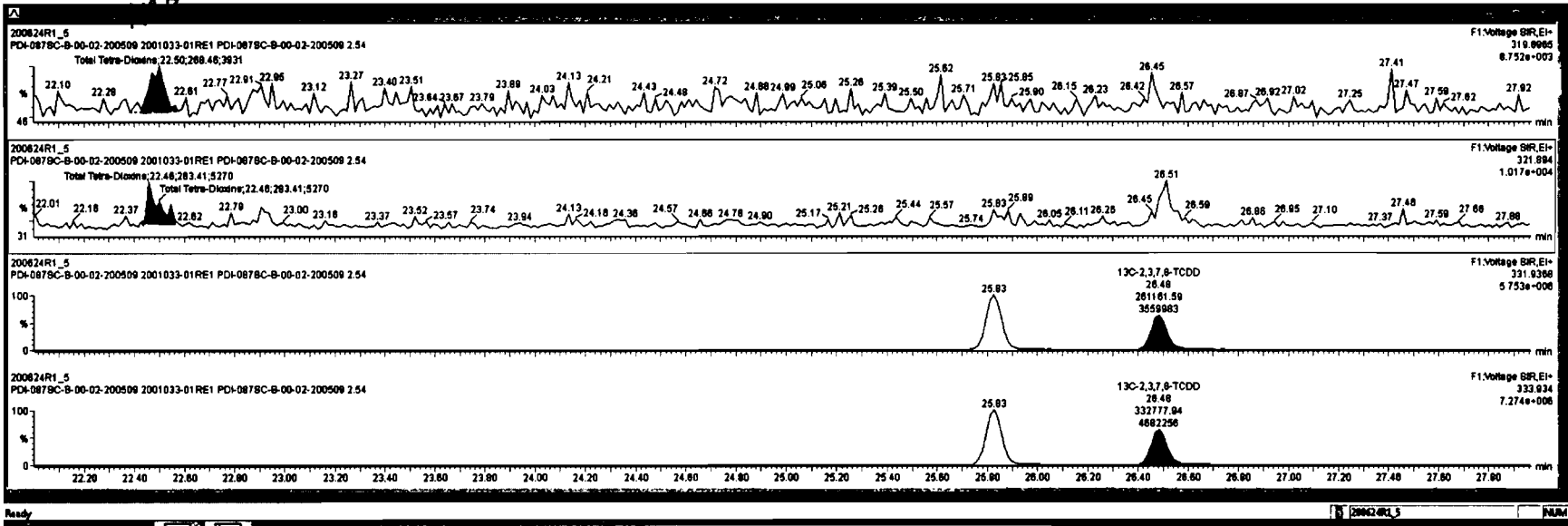


13C-2,3,7,8-TCDD



Total Penta-Dioxins			0.8081	1.022	28.88		25.6		1.18	25.8
Total Hexa-Dioxins			0.8823	1.022	33.83		898		2.94	898
Total Hepta-Dioxins			0.8838	1.022	37.84		2200		7.09	2210
Total Tetra-Furans			0.7810	1.022	23.81		10.8		1.81	17.2
1st Furc. Penta-Furans			0.8828	1.022	27.58		18.3		0.500	18.3
Total Penta-Furans			0.8828	1.022	28.27		15.8		0.801	28.1
Total Hexa-Furans			0.8341	1.022	33.36		180		1.44	183
Total Hepta-Furans			0.8734	1.022	37.83		706		4.85	706
PPV1										

Total Tetra-Dioxins	22.50	2.8054e2	2.8344e2	0.85	YES	1.8813	0.00000
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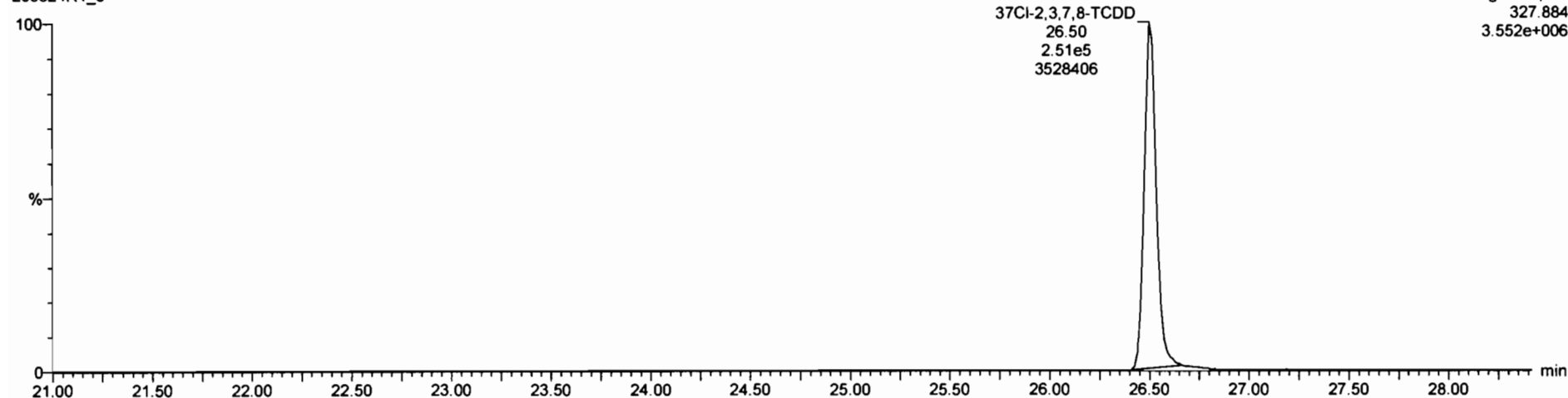
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37Cl-2,3,7,8-TCDD

200624R1\_5

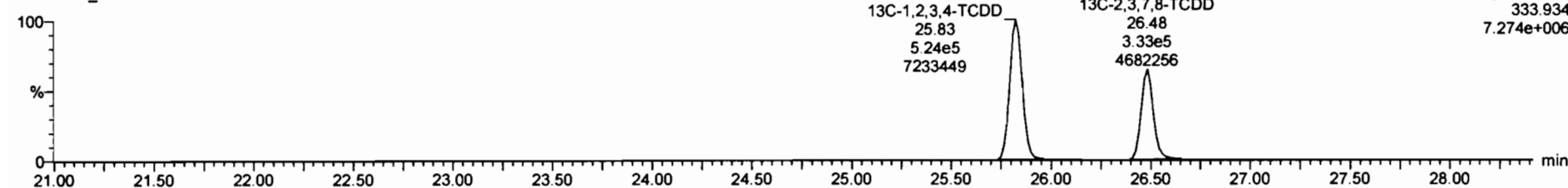


13C-1,2,3,4-TCDD

200624R1\_5



200624R1\_5



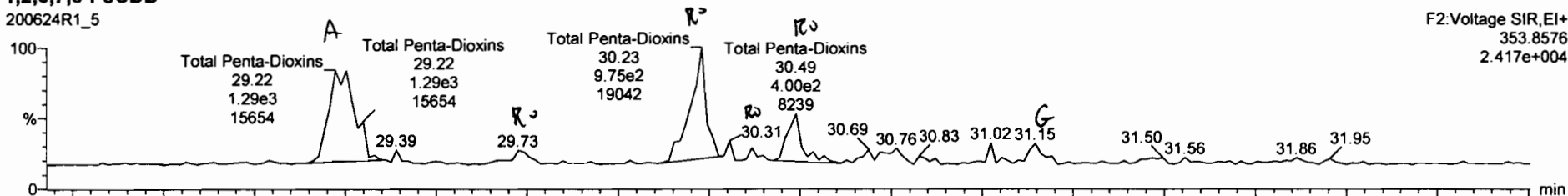
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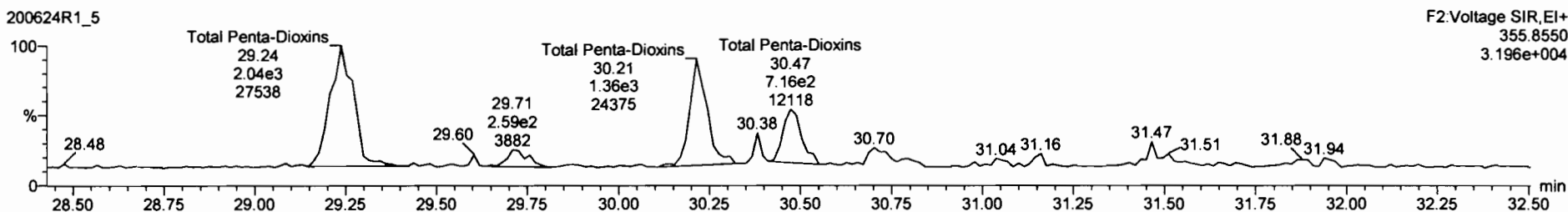
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1,2,3,7,8-PeCDD

200624R1\_5

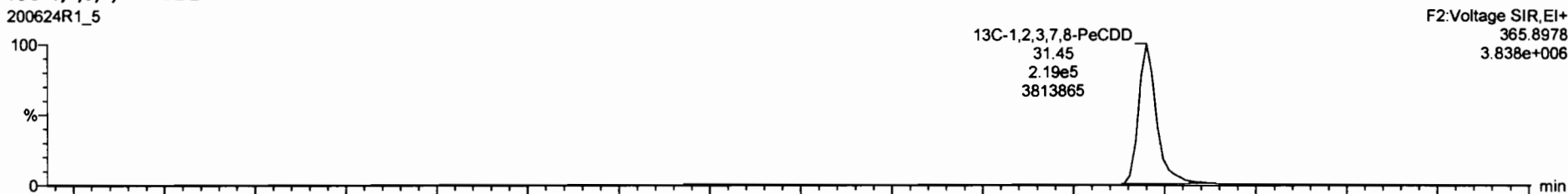


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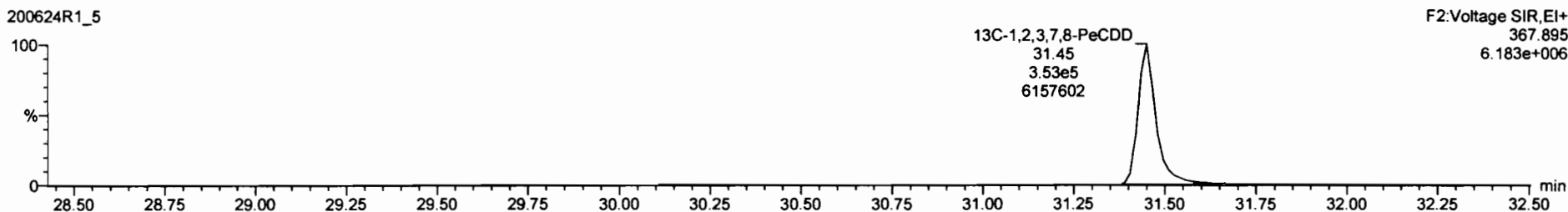


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200624R1\_5



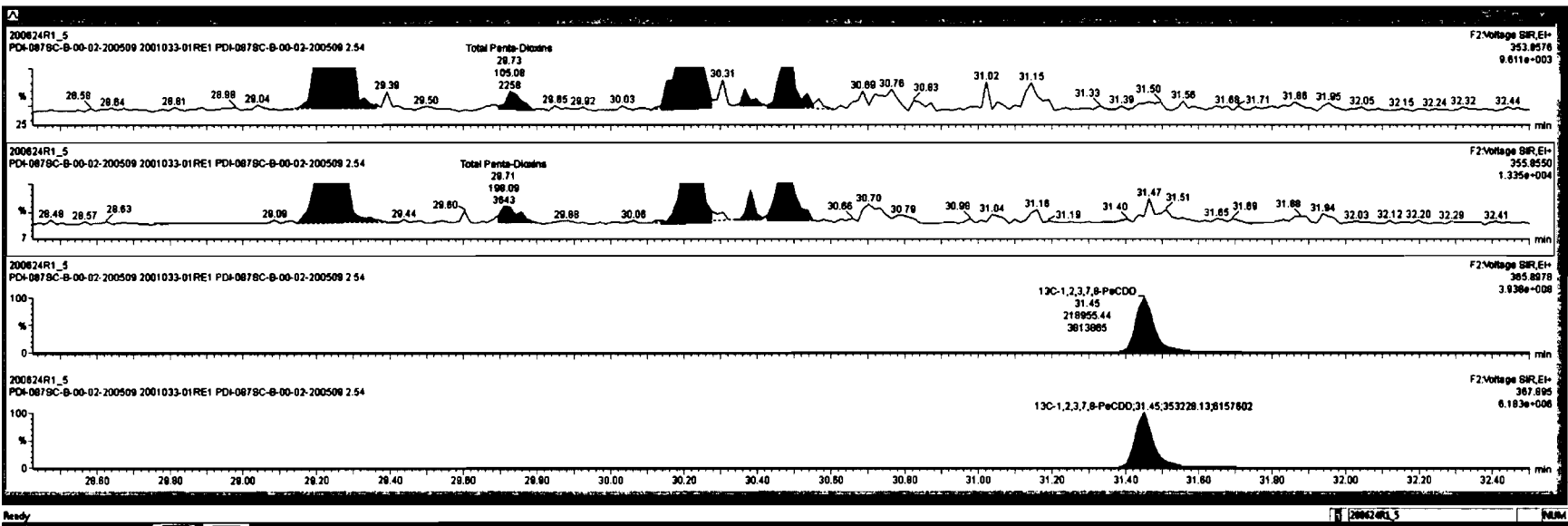
200624R1\_5





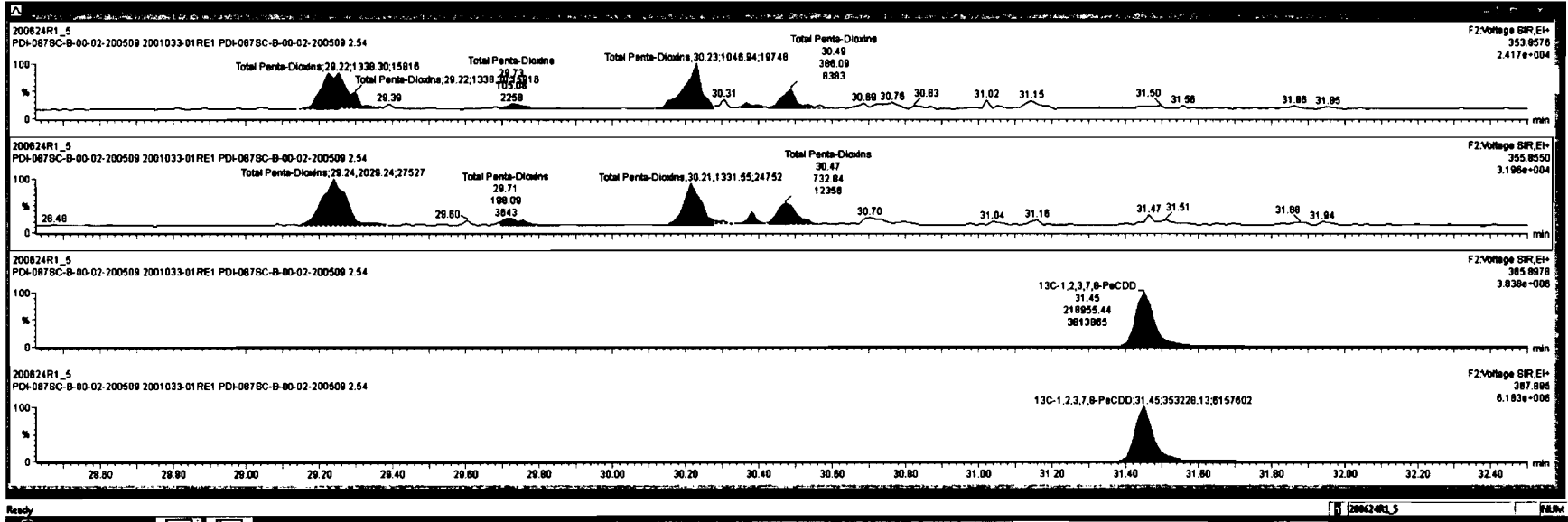
Total Tetra-Dioxine			0.0063	1.022	24.82				1.12
Total Hexa-Dioxine			0.0023	1.022	33.63		698		2.94
Total Hepta-Dioxine			0.0636	1.022	37.84		2200		7.08
Total Tetra-Furane			0.7610	1.022	23.81		10.8		1.81
Total Penta-Furane			0.0025	1.022	27.39		18.3		0.500
Total Hexa-Furane			0.0025	1.022	28.27		15.8		0.801
Total Hepta-Furane			0.0341	1.022	33.58		180		1.44
Total Octa-Furane			0.0734	1.022	37.83		708		4.85
PCV1									

Total Penta-Dioxine	28.73	1.051e2	1.581e2	0.53	YES	1.0244	0.00000
Total Penta-Dioxine	30.25	1.047e3	1.332e3	0.79	YES	6.1775	0.00000
Total Penta-Dioxine	30.37	5.908e1	1.568e2	0.38	YES	0.58478	0.00000
Total Penta-Dioxine	30.48	3.861e2	7.328e2	0.53	YES	3.7637	0.00000



Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration
42	Total Tetra-Dioxine	0.8653	1.022	24.82			1.12
43	Total Hexa-Dioxine	0.8823	1.022	33.83	696		2.94 696
44	Total Hepta-Dioxine	0.8639	1.022	37.84	2200		7.08 2210
45	Total Tetra-Furane	0.7810	1.022	23.81		10.9	1.81 17.2
46	1st Furc. Penta-Furane	0.8825	1.022	27.58		18.3	0.508 18.3
47	Total Penta-Furane	0.8825	1.022	28.27		15.8	0.901 28.1
48	Total Hexa-Furane	0.9341	1.022	33.58		190	1.44 183
49	Total Hepta-Furane	0.8734	1.022	37.83		708	4.85 708
48	PPK1						

Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration
B	Total Penta-Dioxine	29.73	1.051e2	1.891e2	0.53	YES	1.0244 0.00000
C	Total Penta-Dioxine	30.23	1.047e3	1.332e3	0.78	YES	6.1775 0.00000
E	Total Penta-Dioxine	30.37	5.988e1	1.598e2	0.39	YES	0.38478 0.00000
F	Total Penta-Dioxine	30.49	3.881e2	7.328e2	0.53	YES	3.7837 0.00000



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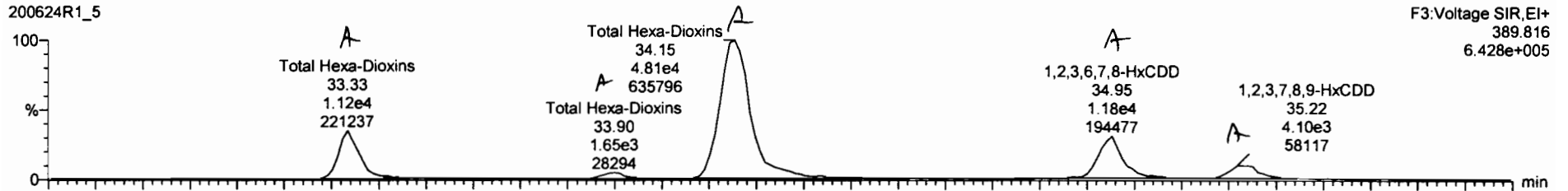
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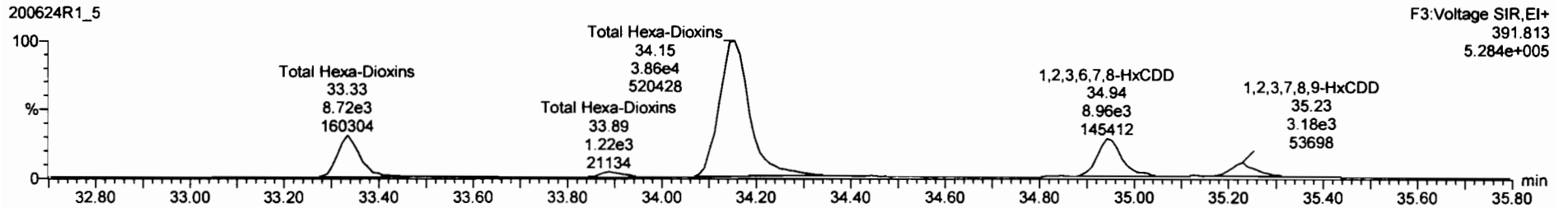
Name: 200624R1\_5, Date: 24-Jun-2020, Time: 12:11:38, ID: 2001033-01RE1 PDI-087SC-B-00-02-200509 2.54, Description: PDI-087SC-B-00-02-200509

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

200624R1\_5



200624R1\_5

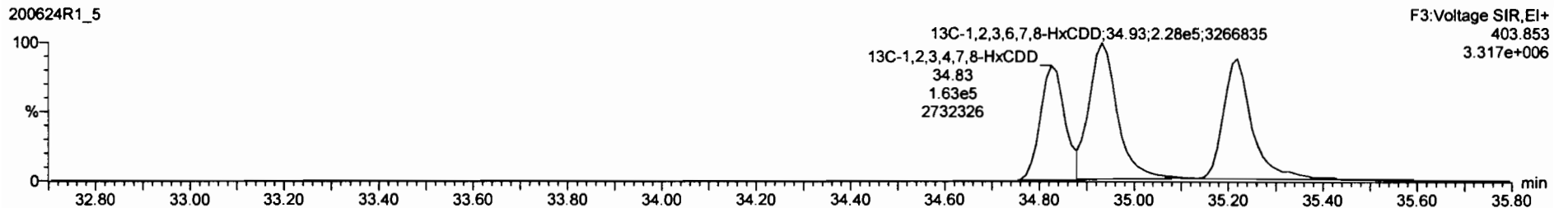


13C-1,2,3,4,7,8-HxCDD

200624R1\_5

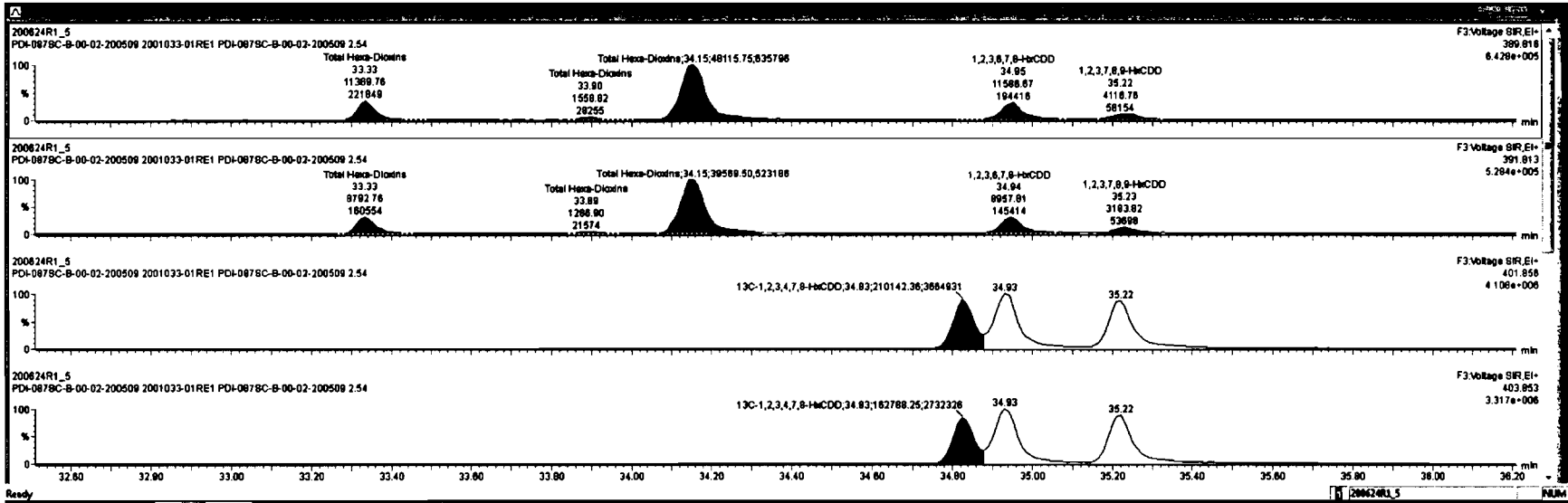


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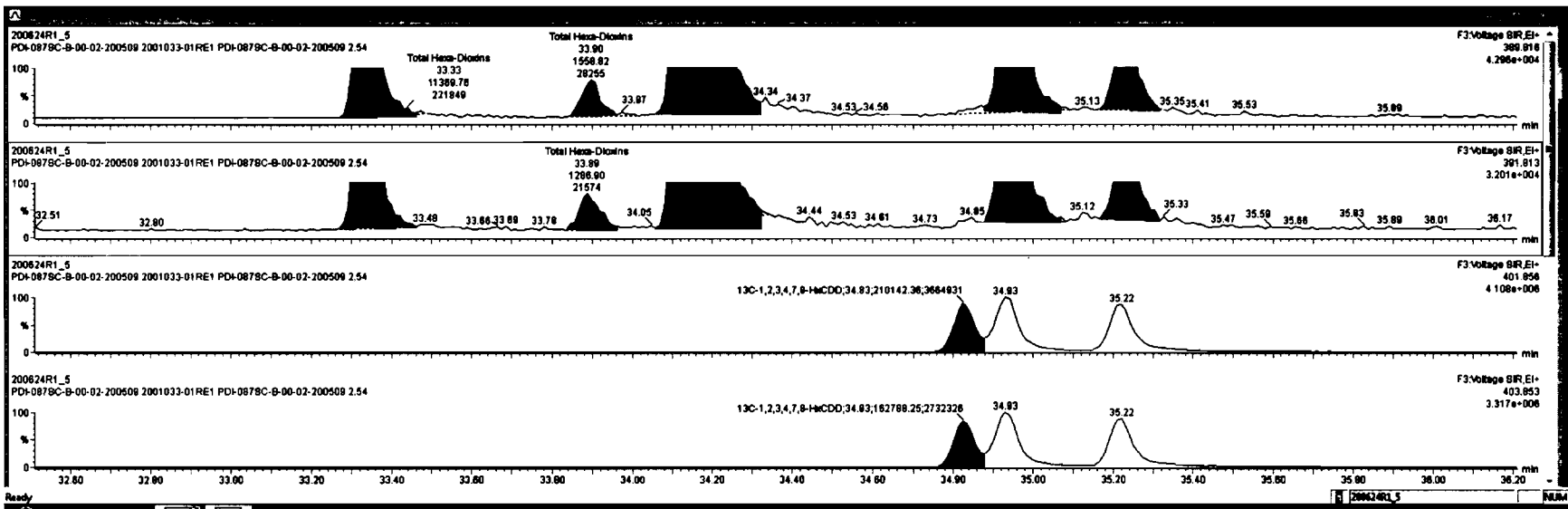
Total Tetra-Dioxins			0.8863	1.022	24.82			1.12
Total Penta-Dioxins			0.8081	1.022	28.86		12.7	1.18 26.2
Total Hexa-Dioxins			0.8539	1.022	37.84		2200	7.08 2210
Total Tetra-Furans			0.7810	1.022	23.81		10.9	1.81 17.2
1 at Func. Penta-Furans			0.8625	1.022	27.59		18.3	0.508 18.3
Total Penta-Furans			0.8625	1.022	29.27		15.8	0.801 26.1
Total Hexa-Furans			0.8341	1.022	33.68		180	1.44 183
Total Hepta-Furans			0.8734	1.022	37.83		706	4.85 706
PFK1								

Total Hexa-Dioxins	33.33	1.137e4	8.783e3	1.29	NO	89.529	90.528
Total Hexa-Dioxins	33.90	1.558e3	1.287e3	1.21	NO	14.047	14.047
Total Hexa-Dioxins	34.15	4.812e4	3.957e4	1.22	NO	432.84	432.84
1,2,3,6,7,8-HxCDD	34.95	1.158e4	8.958e3	1.28	NO	89.137	89.137
1,2,3,7,8,9-HxCDD	35.22	4.117e3	3.194e3	1.28	NO	35.888	35.888



Total Tere-Dichloro	0.8883	1.022	24.82			1.12
Total Perflu-Dichloro	0.8091	1.022	29.90	12.7		1.10
Total Hepta-Chlorine	0.8830	1.022	37.84		2200	7.05
Total Tetra-Furane	0.7810	1.022	23.61		10.9	1.81
1st Func. Perflu-Furane	0.8825	1.022	27.59		18.3	0.500
Total Perflu-Furane	0.8825	1.022	29.27		15.8	0.901
Total Hexa-Furane	0.8341	1.022	33.95		180	1.44
Total Hepta-Furane	0.8734	1.022	37.83		706	4.85
PFK1						

Total Hexa-Dichloro	33.33	1.137e4	8.780e3	1.28	NO	98.528	98.528
Total Hexa-Dichloro	33.80	1.559e3	1.287e3	1.21	NO	14.047	14.047
Total Hexa-Dichloro	34.15	4.812e4	3.957e4	1.22	NO	432.84	432.84
1,2,3,6,7,8-HxCDD	34.95	1.159e4	8.889e3	1.28	NO	88.137	88.137
1,2,3,7,8-HxCDD	35.22	4.117e3	3.194e3	1.28	NO	35.888	35.888



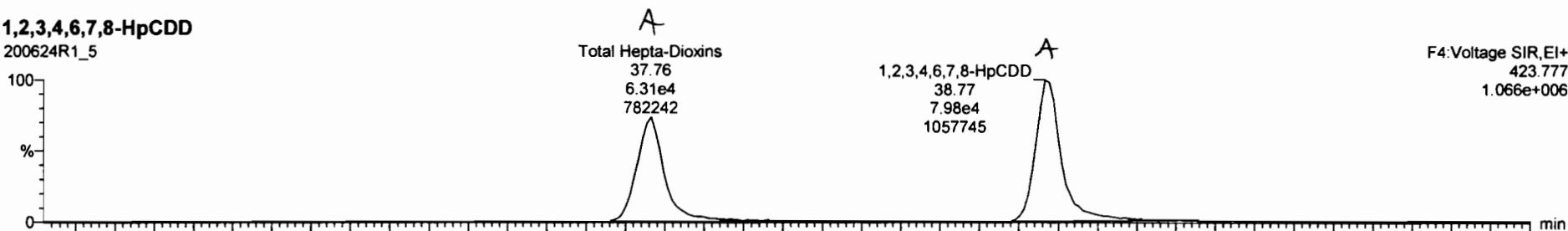
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Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

Name: 200624R1\_5, Date: 24-Jun-2020, Time: 12:11:38, ID: 2001033-01RE1 PDI-087SC-B-00-02-200509 2.54, Description: PDI-087SC-B-00-02-200509

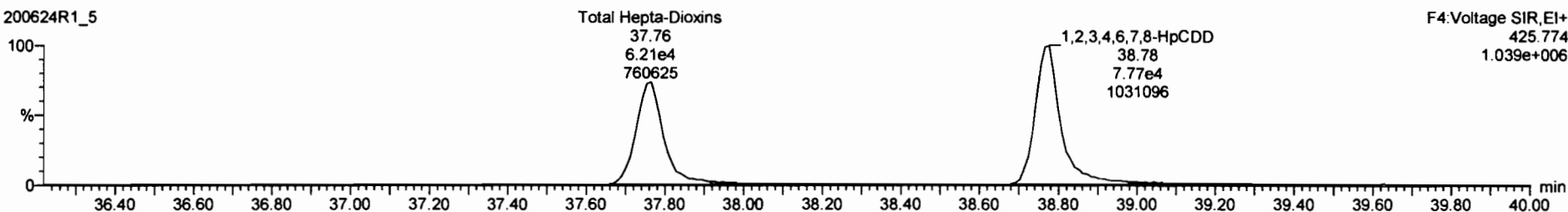
1,2,3,4,6,7,8-HpCDD

200624R1\_5



F4: Voltage SIR, EI+  
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1.066e+006

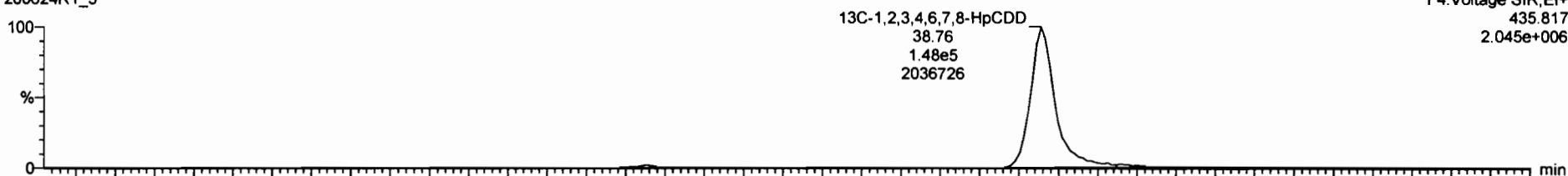
200624R1\_5



F4: Voltage SIR, EI+  
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1.039e+006

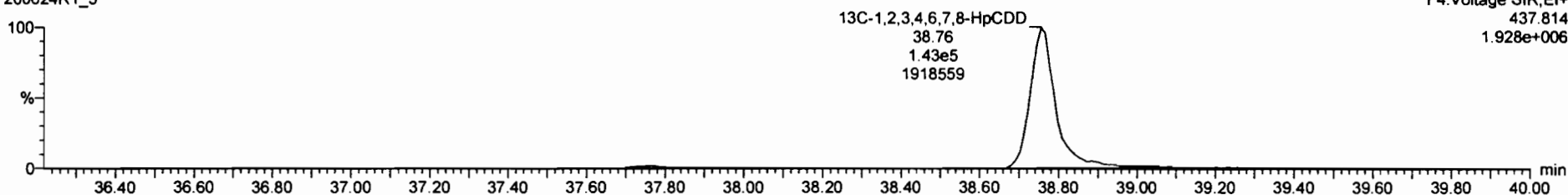
13C-1,2,3,4,6,7,8-HpCDD

200624R1\_5



F4: Voltage SIR, EI+  
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2.045e+006

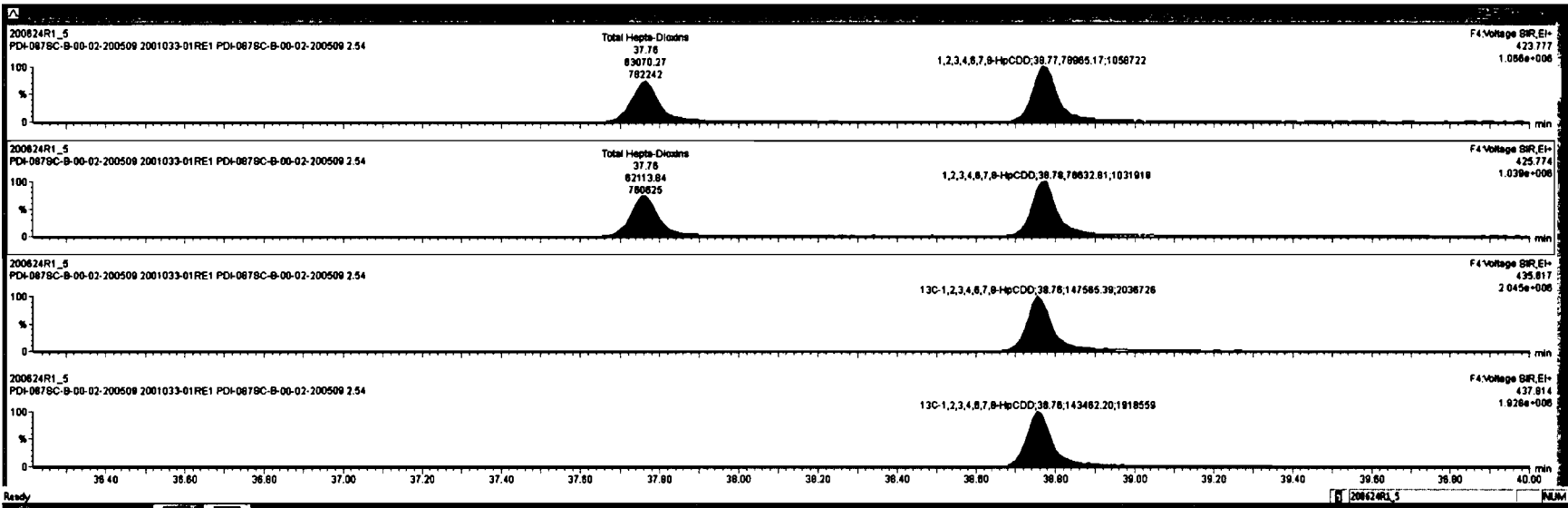
200624R1\_5



F4: Voltage SIR, EI+  
437.814  
1.928e+006

Total Tri-Chloro	0.8883	1.022	24.82				1.12
Total Penta-Chloro	0.8091	1.022	28.88		12.7		1.18 28.2
Total Hexa-Chloro	0.8823	1.022	33.83		670		2.84 670
Total Tri-Furane	0.7510	1.022	23.81		10.9		1.81 17.2
1st Furc. Penta-Furane	0.8825	1.022	27.58		18.3		0.508 18.3
Total Penta-Furane	0.8825	1.022	28.27		15.8		0.801 28.1
Total Hexa-Furane	0.8341	1.022	33.96		180		1.44 183
Total Hepta-Furane	0.8734	1.022	37.83		708		4.85 708
PFY1							

Total Hepta-Dioxins	37.76	8.307e4	6.211e4	1.02	NO	874.72	874.72
1,2,3,4,6,7,8-HpCDD	36.77	7.887e4	7.883e4	1.03	NO	1211.5	1211.5

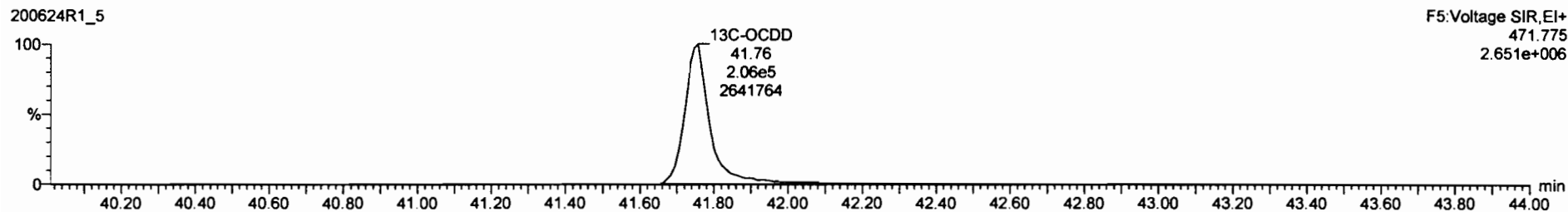
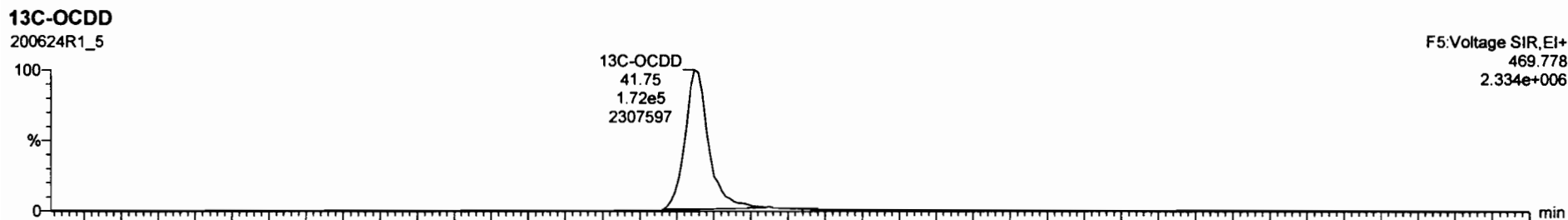
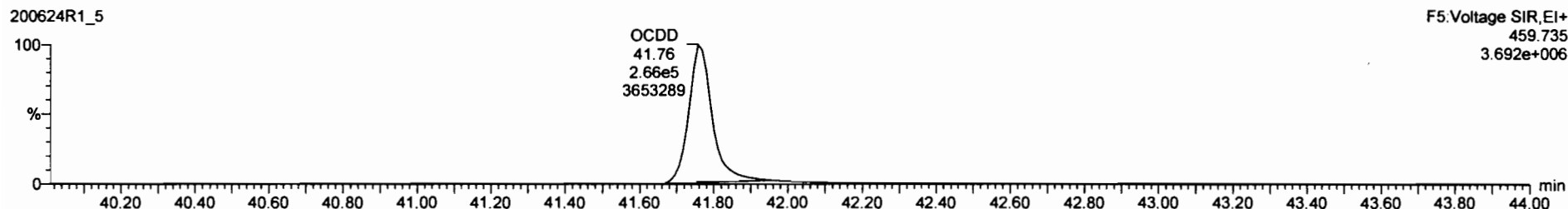
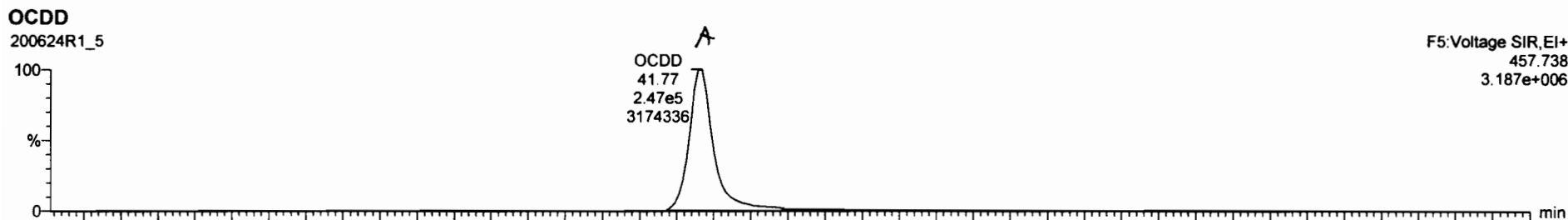


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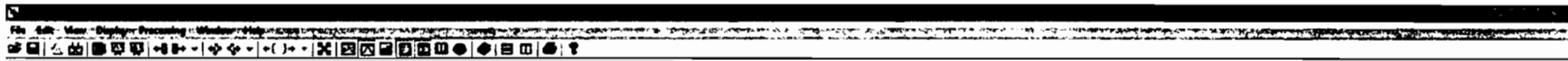
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Name: 200624R1\_5, Date: 24-Jun-2020, Time: 12:11:38, ID: 2001033-01RE1 PDI-087SC-B-00-02-200509 2.54, Description: PDI-087SC-B-00-02-200509

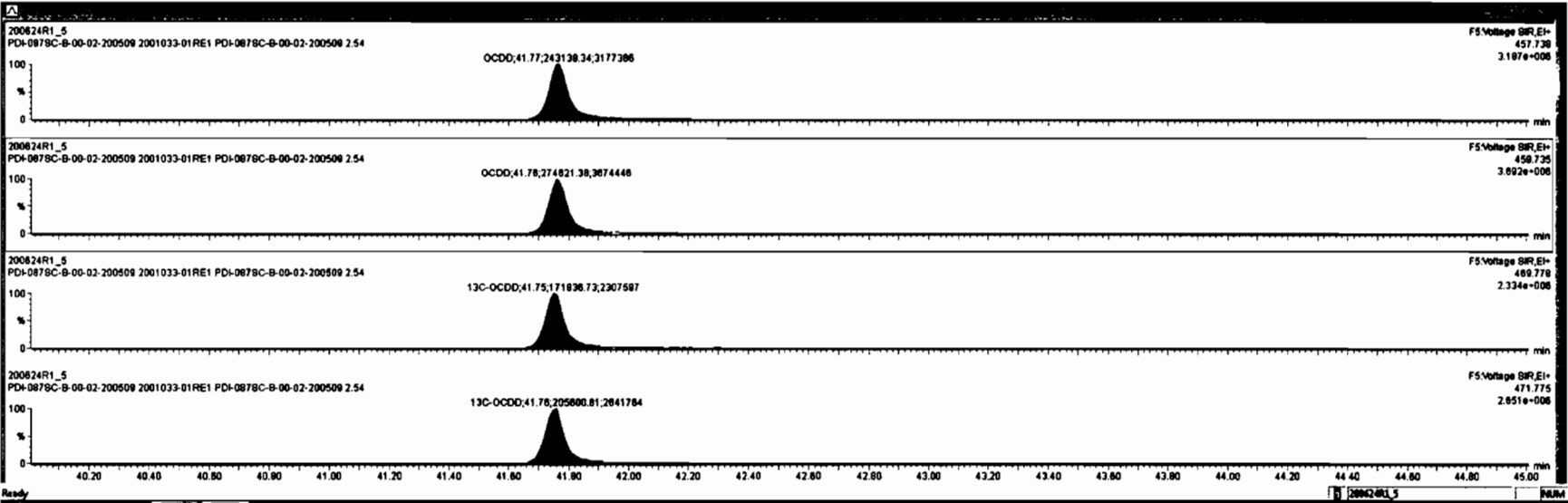






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9	23.37	2.32e3	1.51	NO	0.8825	1.022	30.19	30.19	1.000	7.46
10	23.47	1.89e3	1.83	YES	0.8348	1.022	31.18	31.18	1.000	5.91
11	23.47	2.87e3	1.20	NO	0.8845	1.022	33.85	33.86	1.000	13.3
12	23.87	1.41e3	1.17	NO	0.8882	1.022	34.00	34.08	1.000	5.36
13	23.87	9.83e2	1.20	NO	0.8341	1.022	34.70	34.80	1.001	4.04
14	23.37	6.28e2	0.81	YES	0.8707	1.022	35.98	35.82	1.001	3.90
15	23.46	5.75e4	1.00	NO	0.8734	1.022	37.38	37.37	1.001	3.80
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200824R1\_5



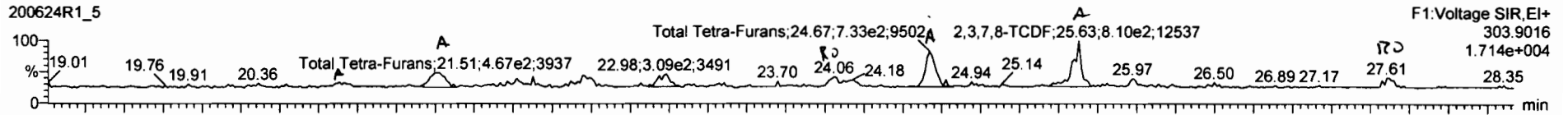
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Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

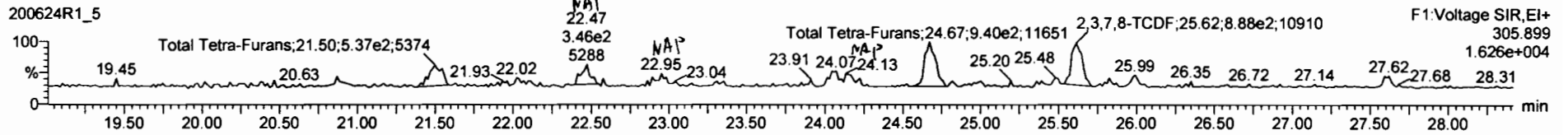
Name: 200624R1\_5, Date: 24-Jun-2020, Time: 12:11:38, ID: 2001033-01RE1 PDI-087SC-B-00-02-200509 2.54, Description: PDI-087SC-B-00-02-200509

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

200624R1\_5

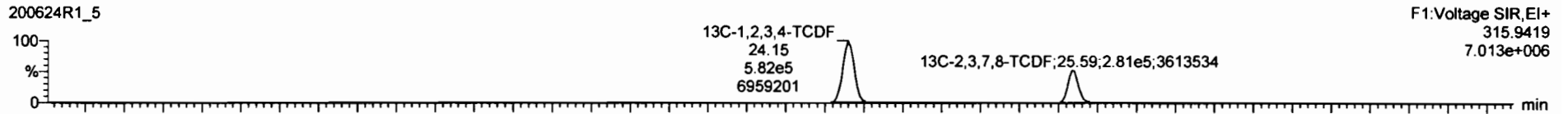


200624R1\_5

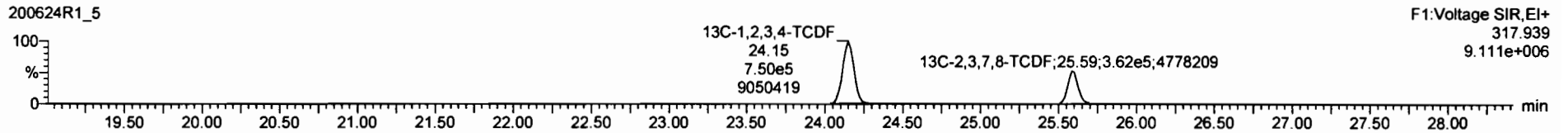


**13C-2,3,7,8-TCDF**

200624R1\_5

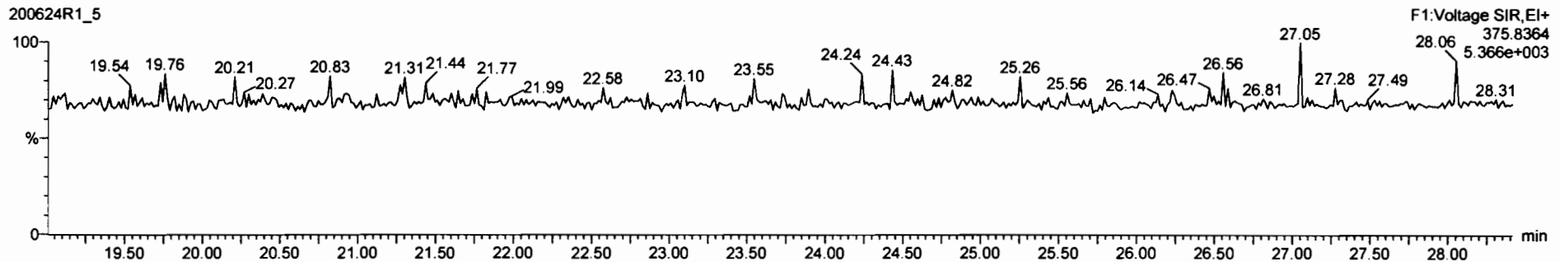


200624R1\_5



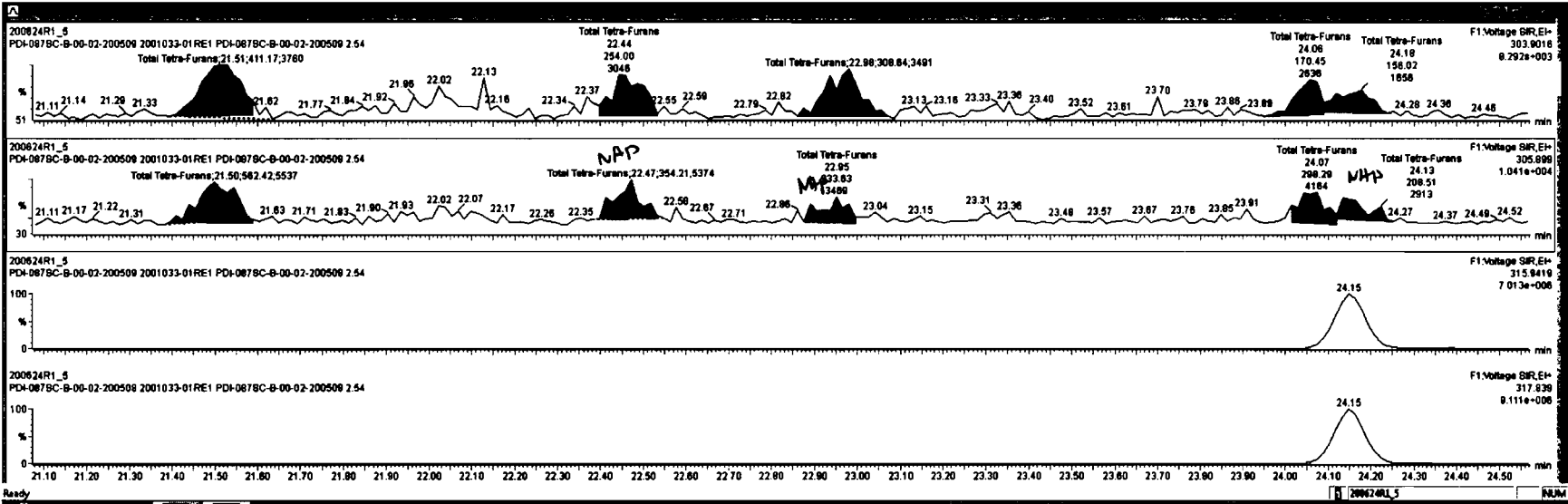
**DPE1**

200624R1\_5



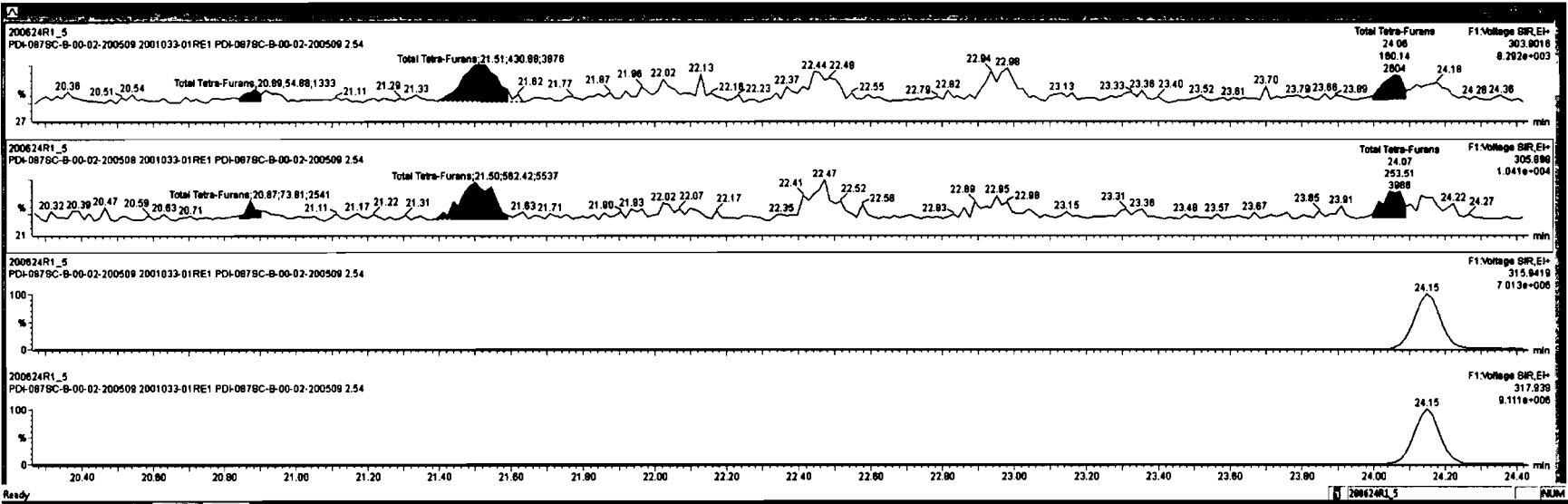
NO.	1st Func.	Penta-Furans								
001	Total Penta-Furans		0.8825	1.022	27.58			18.3	0.508	18.3
002	Total Penta-Furans		0.8825	1.022	28.27			15.8	0.801	28.1
003	Total Hexa-Furans		0.8341	1.022	33.58			180	1.44	183
004	Total Hexa-Furans		0.8734	1.022	37.83			708	4.86	708
005	PF1									
006	PF2									
007	PF3									
008	PF4									
009	PF5									

NO.	Total Tetra-Furans								
001	Total Tetra-Furans	21.51	4.112e2	5.824e2	0.73	NO	3.9503	3.9503	
002	Total Tetra-Furans	22.44	2.540e2	3.542e2	0.72	NO	2.4878	0.00000	
003	Total Tetra-Furans	22.98	3.086e2	2.338e2	1.32	YES	1.8779	0.00000	
004	Total Tetra-Furans	24.08	1.704e2	2.883e2	0.57	YES	1.5988	0.00000	
005	Total Tetra-Furans	24.18	1.880e2	2.086e2	0.75	NO	1.4781	1.4781	
006	Total Tetra-Furans	24.87	7.000e2	8.136e2	0.77	NO	8.9834	8.9834	



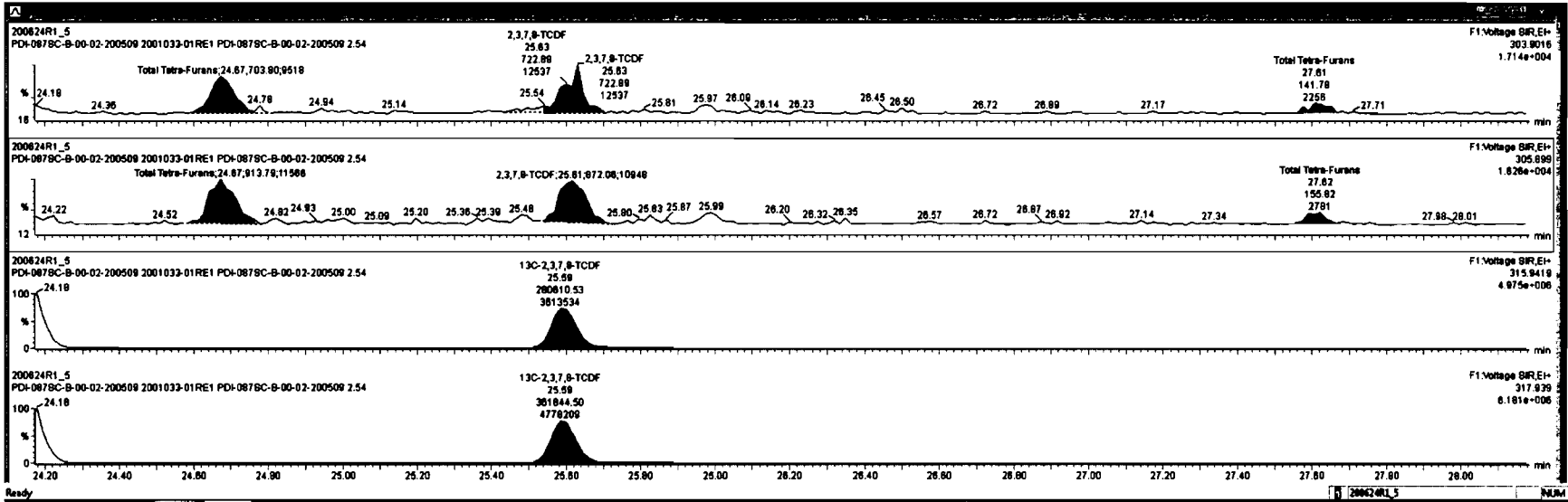
Peak	Ret. Time	Area	Height	Width	Height	Area	Height	Width	Height
46	21.11	0.8925	1.022	27.56		18.3	0.500	18.3	
47	21.29	0.8925	1.022	26.27		15.8	0.801	26.1	
48	21.33	0.8341	1.022	33.56		180	1.44	183	
49	21.33	0.8734	1.022	37.83		708	4.85	708	
50									
51									
52									
53									
54									
55									

Peak	Ret. Time	Area	Height	Width	Height	Area	Height	Width	Height
1	20.38	5.489e2	7.381e1	0.74	NO	0.52215	0.52215		
2	20.51	4.308e2	5.824e2	0.77	NO	4.0303	4.0303		
3	20.54	1.801e2	2.535e2	0.63	YES	1.4838	0.00000		
4	20.59	7.038e2	8.138e2	0.77	NO	6.5834	8.5834		
5	20.71	7.228e2	8.721e2	0.83	NO	6.4715	6.4715		
6	20.83	1.418e2	1.696e2	0.81	YES	1.1180	0.00000		



1st Furc. Furans-Furans			0.8825	1.022	27.99		18.3	0.500	18.3
Total Furans-Furans			0.8825	1.022	28.27		15.8	0.501	28.1
Total Hexa-Furans			0.8341	1.022	33.58		180	1.44	183
Total Hepta-Furans			0.8734	1.022	37.83		708	4.86	708
PFK1									
PFK2									
PFK3									
PFK4									
PFK5									

Total Tetra-Furans	5.488e1	7.201e1	0.74	NO	0.52215	0.52215
Total Tetra-Furans	4.309e2	5.824e2	0.77	NO	4.0303	4.0303
Total Tetra-Furans	1.801e2	2.535e2	0.83	YES	1.4838	0.00000
Total Tetra-Furans	7.039e2	8.139e2	0.77	NO	8.9834	8.9834
2,3,7,8-TCDF	7.229e2	8.721e2	0.83	NO	6.4716	6.4716
Total Tetra-Furans	1.419e3	1.699e3	0.91	YES	1.1191	0.00000



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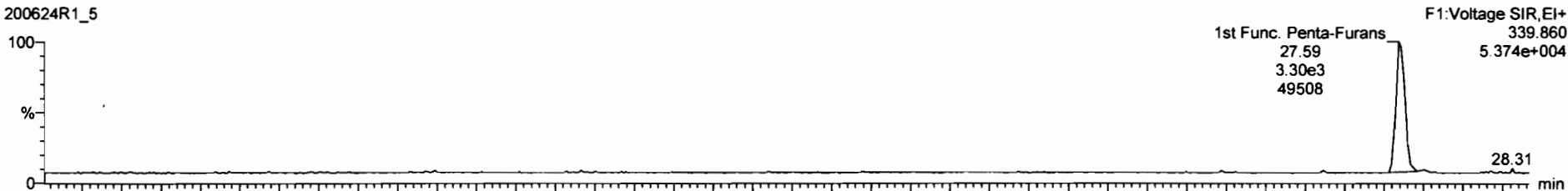
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Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

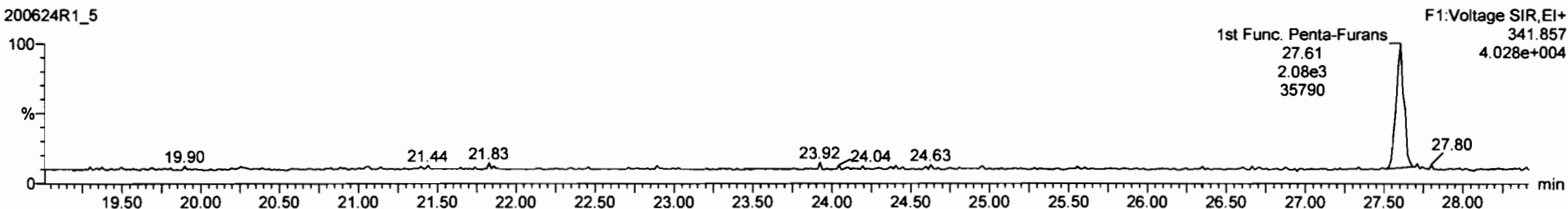
Name: 200624R1\_5, Date: 24-Jun-2020, Time: 12:11:38, ID: 2001033-01RE1 PDI-087SC-B-00-02-200509 2.54, Description: PDI-087SC-B-00-02-200509

1st Func. Penta-Furans

200624R1\_5

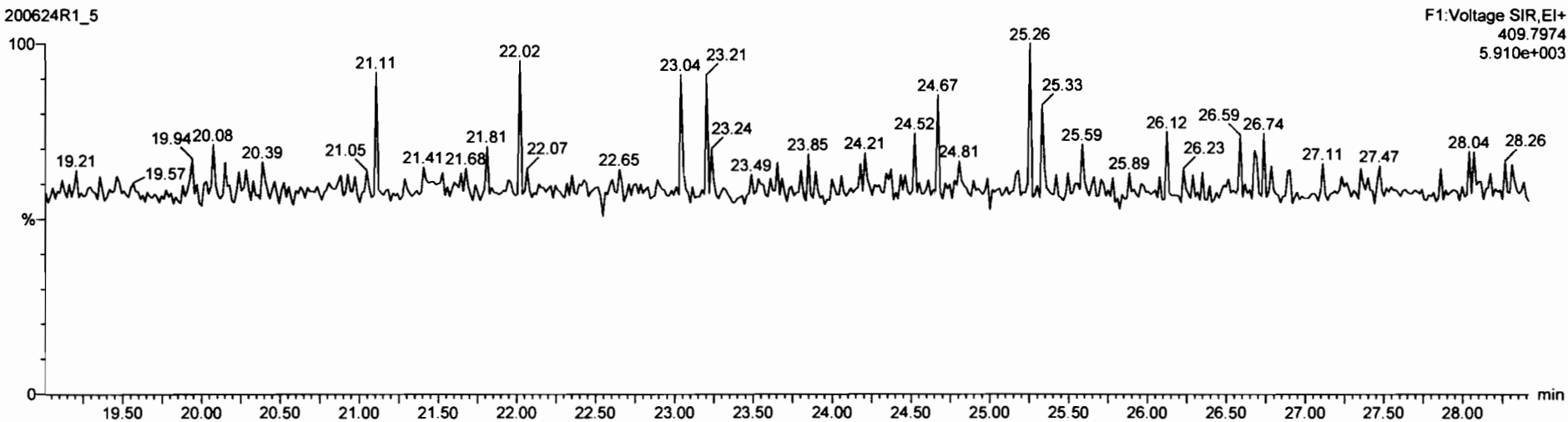


200624R1\_5



DPE6

200624R1\_5

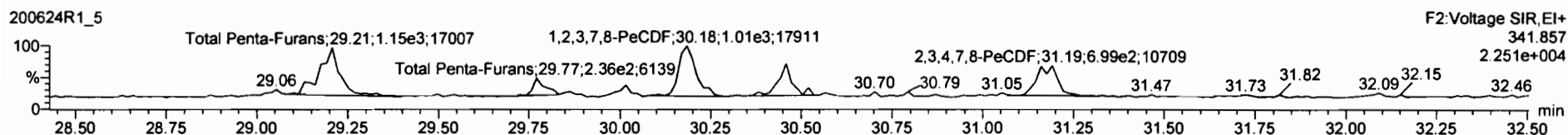
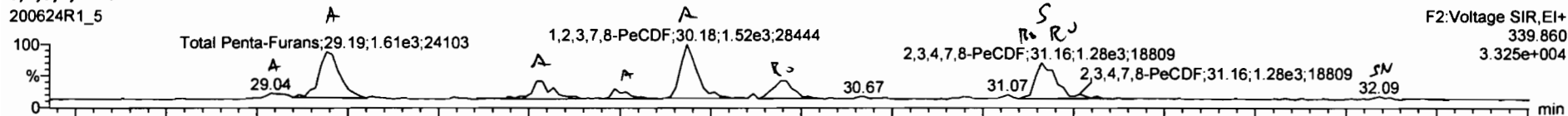


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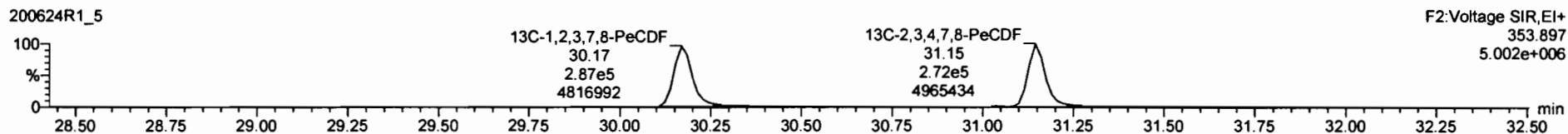
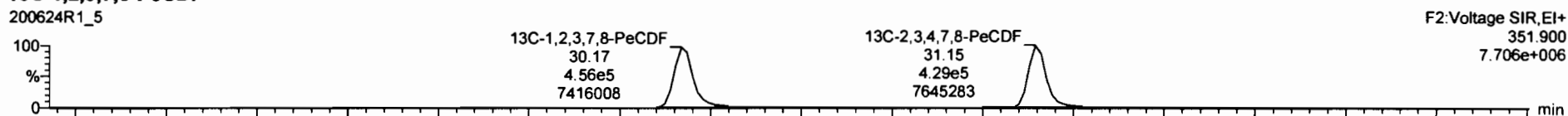
Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time  
Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

Name: 200624R1\_5, Date: 24-Jun-2020, Time: 12:11:38, ID: 2001033-01RE1 PDI-087SC-B-00-02-200509 2.54, Description: PDI-087SC-B-00-02-200509

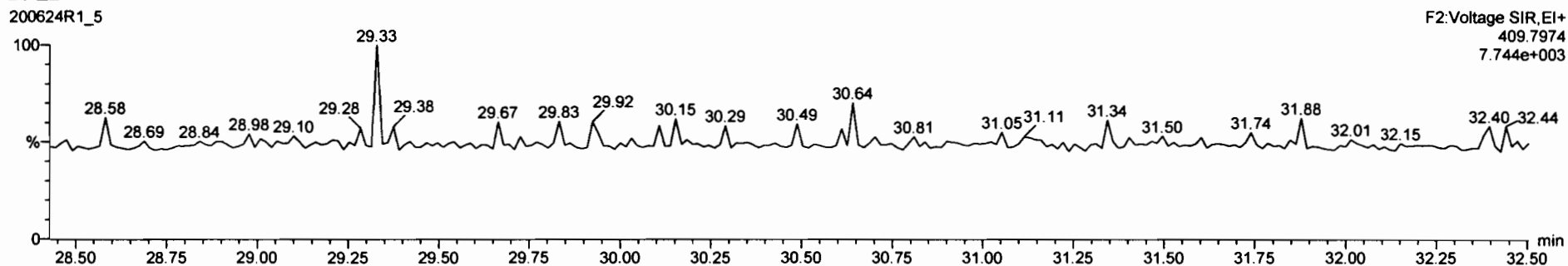
**1,2,3,7,8-PeCDF**

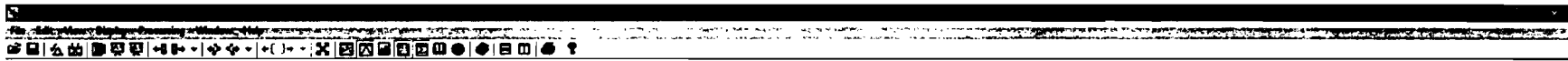


**13C-1,2,3,7,8-PeCDF**



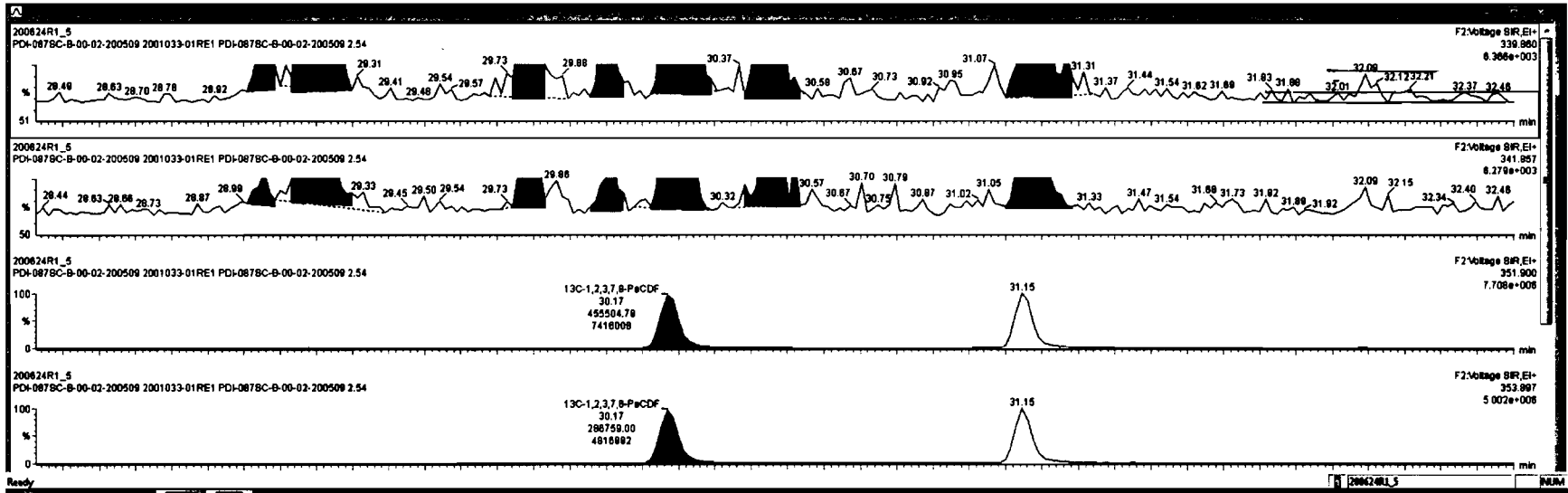
**DPE2**





Total Hexa-Furane			0.8341	1.022	33.98	180	1.44	183
Total Hepta-Furane			0.8734	1.022	37.83	708	4.95	708
PFM1								
PFM2								
PFM3								
PFM4								
PFM5								
DPE1								
DPE2								

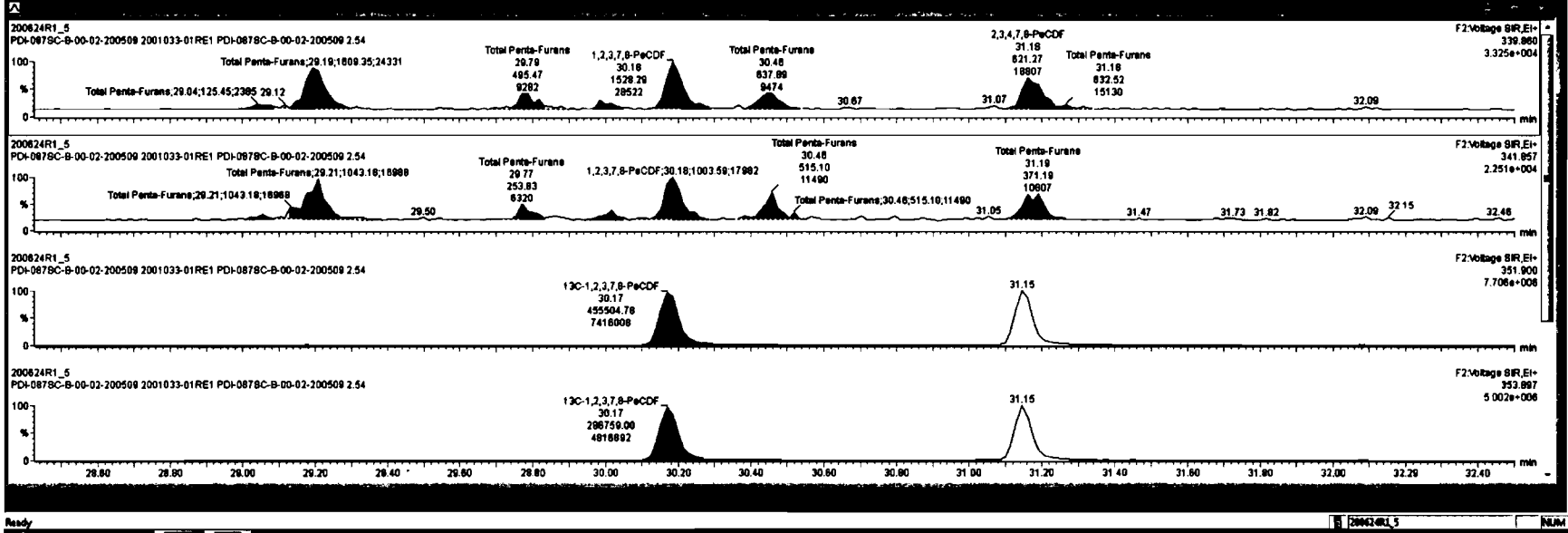
Total Penta-Furane	29.04	1.255e2	7.285e1	1.73	NO	0.80228	0.80228
Total Penta-Furane	29.19	1.808e3	1.043e3	1.54	NO	8.0848	8.0848
Total Penta-Furane	29.79	4.855e2	2.536e2	1.85	YES	1.9879	0.00000
Total Penta-Furane	29.99	2.223e2	1.873e2	1.33	NO	1.1845	1.1845
1,2,3,7,8-PeCDF	30.18	1.528e3	1.004e3	1.52	NO	7.4818	7.4818
Total Penta-Furane	30.48	8.378e2	5.151e2	1.24	YES	3.1807	0.00000





Total Hexa-Furane			0.8341	1.022	33.98		180	1.44	183
Total Hepta-Furane			0.8734	1.022	37.83		708	4.85	708
PK1									
PK2									
PK3									
PK4									

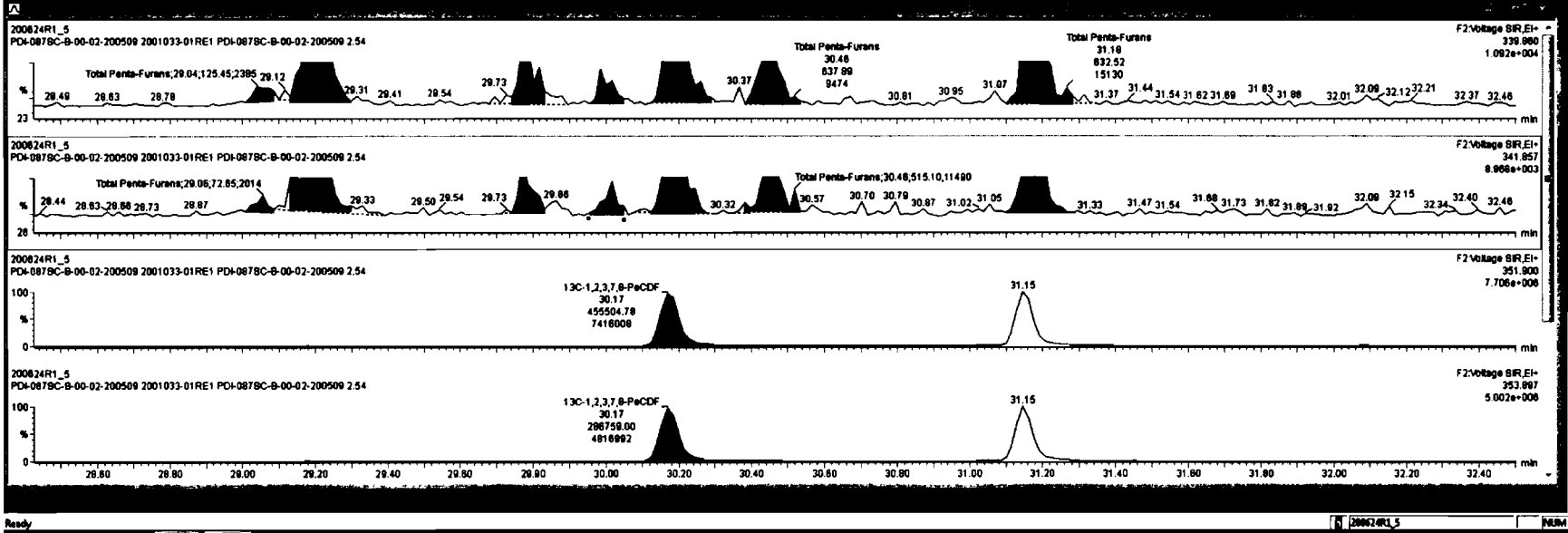
Total Penta-Furane	29.04	1.255e2	7.285e1	1.73	NO	0.80229	0.80229
Total Penta-Furane	29.10	1.808e3	1.043e3	1.54	NO	8.0848	8.0848
Total Penta-Furane	29.70	4.885e2	2.538e2	1.86	YES	1.9879	0.00000
Total Penta-Furane	29.80	2.223e2	1.532e2	1.45	NO	1.1417	1.1417
1,2,3,7,8-PeCDF	30.18	1.528e3	1.004e3	1.52	NO	7.4818	7.4818
Total Penta-Furane	30.48	6.378e2	5.151e2	1.24	YES	3.1807	0.00000





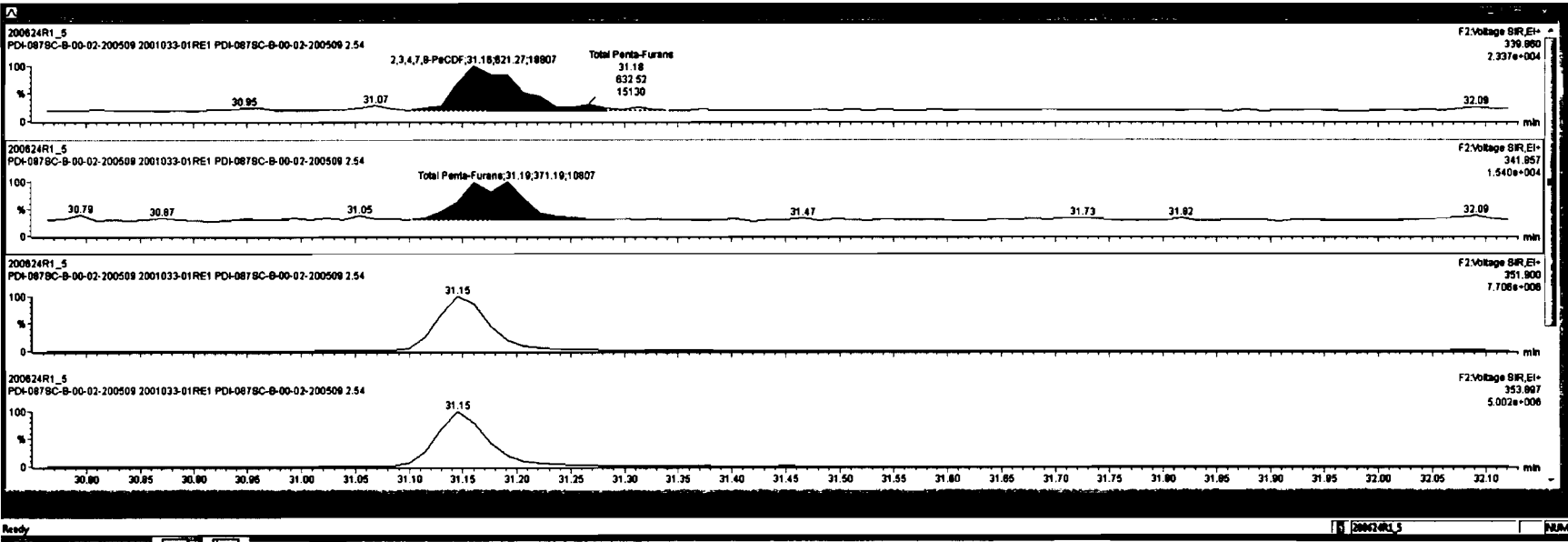
Total Hexa-Furans			0.8341	1.022	33.98		180	1.44	183
Total Hepta-Furans			0.8734	1.022	37.83		706	4.85	708
PPK1									
PPK2									
PPK3									
PPK4									

Time	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
29.04	1.255e2	7.285e1	1.73	NO	0.80228	0.80228			
29.19	1.808e3	1.043e3	1.54	NO	8.0848	8.0848			
29.79	4.955e2	2.538e2	1.85	YES	1.9879	0.00000			
29.80	2.223e2	1.532e2	1.45	NO	1.1417	1.1417			
30.18	1.528e3	1.004e3	1.52	NO	7.4818	7.4818			
30.48	6.378e2	5.191e2	1.24	YES	3.1807	0.00000			



Total Hexa-Furans	0.8341	1.022	33.98	180	1.44	163
Total Hepta-Furans	0.8734	1.022	37.83	708	4.85	708
PFH1						
PFH2						
PFH3						
PFH4						

Total Penta-Furans	29.04	1.255e2	7.285e1	1.73	NO	0.80228	0.80228
Total Penta-Furans	29.19	1.808e3	1.043e3	1.54	NO	8.0846	8.0846
Total Penta-Furans	29.78	4.955e2	2.838e2	1.95	YES	1.9879	0.00000
Total Penta-Furans	29.99	2.223e2	1.832e2	1.46	NO	1.1417	1.1417
2,3,7,8-PeCDF	30.18	1.828e3	1.004e3	1.82	NO	7.4816	7.4816
Total Penta-Furans	30.48	6.379e2	5.151e2	1.24	YES	3.1907	0.00000



Dataset: Untitled

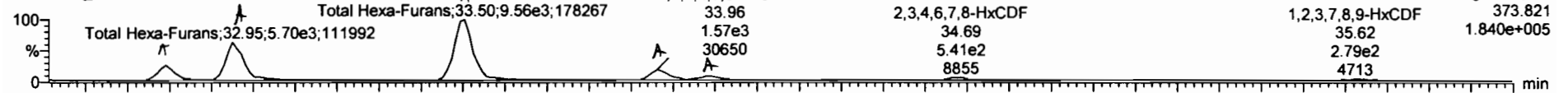
Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time

Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

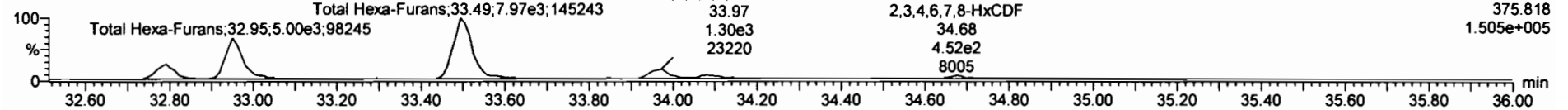
Name: 200624R1\_5, Date: 24-Jun-2020, Time: 12:11:38, ID: 2001033-01RE1 PDI-087SC-B-00-02-200509 2.54, Description: PDI-087SC-B-00-02-200509

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

200624R1\_5

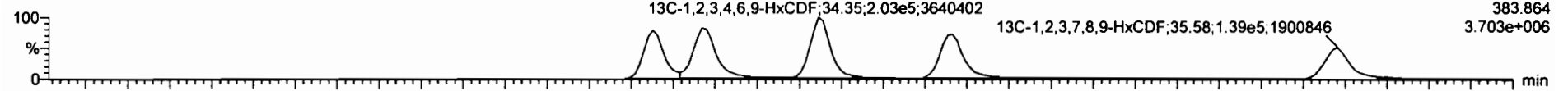


200624R1\_5

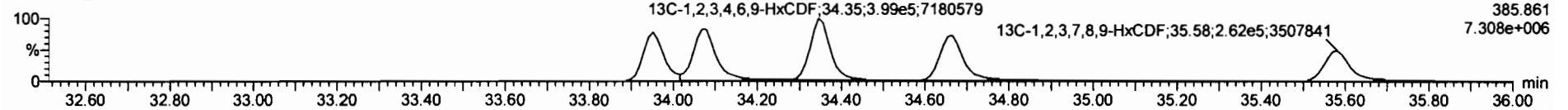


**13C-1,2,3,4,7,8-HxCDF**

200624R1\_5

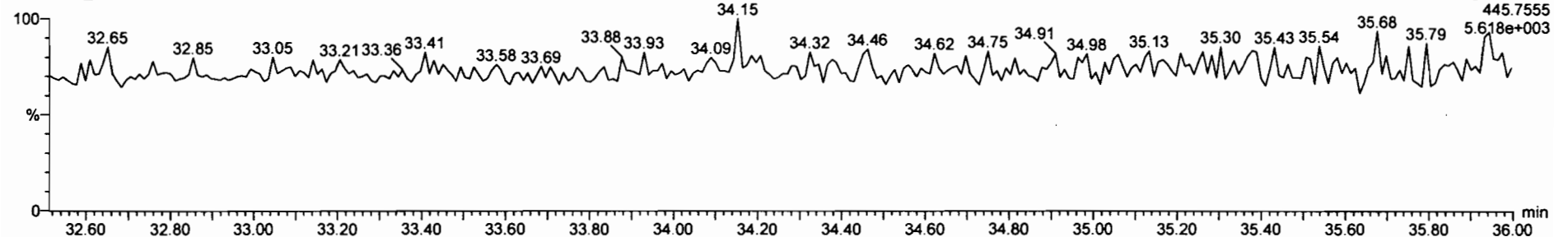


200624R1\_5



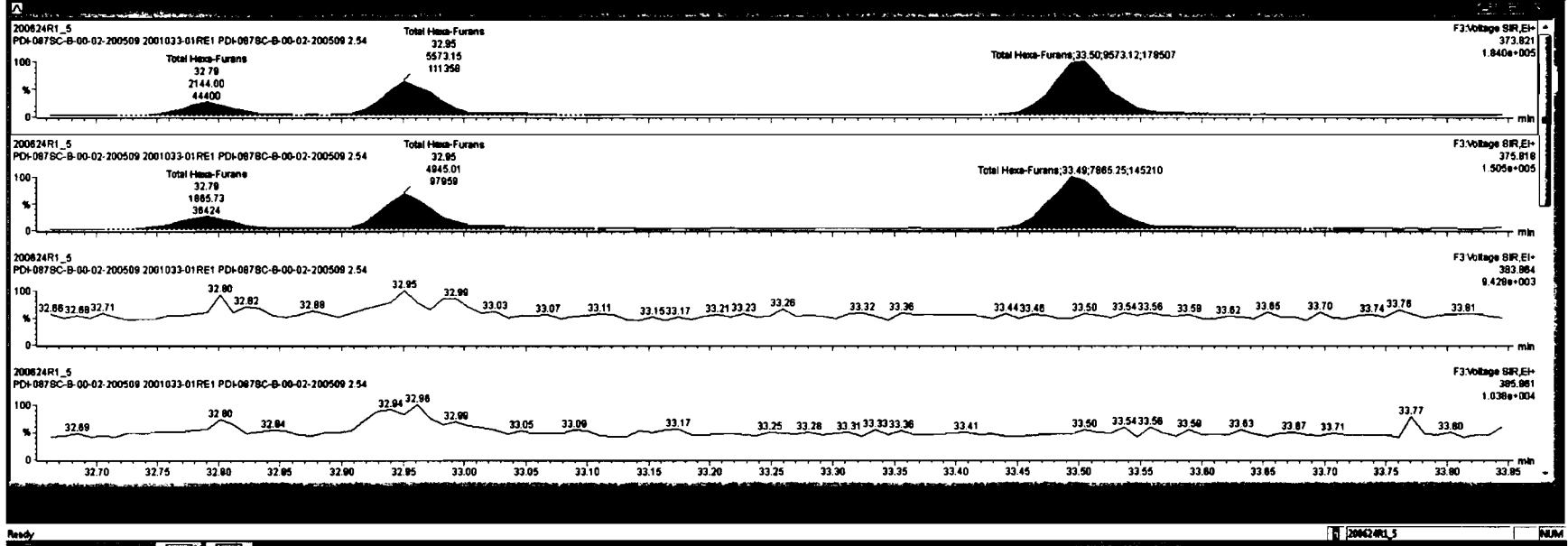
**DPE3**

200624R1\_5



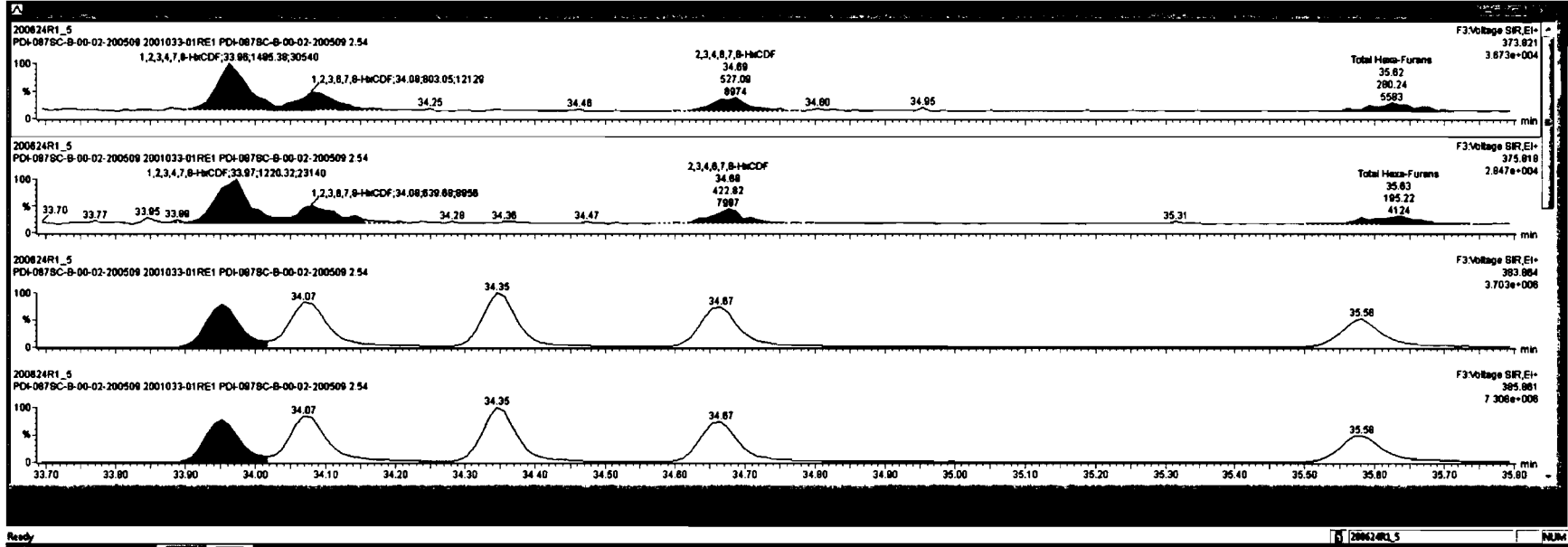
RT	Total Penta-Furans	0.8925	1.022	29.27	20.3	0.801	28.1
07.2	Total Hexa-Furans	0.8734	1.022	37.83	706	4.85	706
08.2	PFH1						
09.2	PFH2						
10.2	PFH3						
11.2	PFH4						

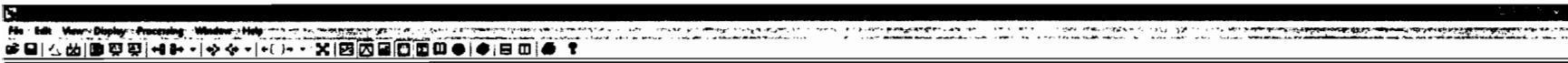
RT	Total Hexa-Furans	32.79	2.144e3	1.889e3	1.15	NO	17.055	17.055
32.85	Total Hexa-Furans	32.85	5.573e3	4.846e3 <th>1.13</th> <th>NO</th> <th>44.738</th> <th>44.738</th>	1.13	NO	44.738	44.738
33.50	Total Hexa-Furans	33.50	9.573e3	7.886e3 <th>1.22</th> <th>NO</th> <th>74.173</th> <th>74.173</th>	1.22	NO	74.173	74.173
33.98	1,2,3,4,7,8-HxCDF	33.98	1.485e3	1.220e3 <th>1.22</th> <th>NO</th> <th>12.541</th> <th>12.541</th>	1.22	NO	12.541	12.541
34.08	1,2,3,6,7,8-HxCDF	34.08	8.030e2	6.387e2 <th>1.28</th> <th>NO</th> <th>5.5037</th> <th>5.5037</th>	1.28	NO	5.5037	5.5037



Total Penta-Furans		0.8625	1.022	28.27		20.3	0.801	28.1
Total Hexa-Furans		0.8734	1.022	37.83		708	4.85	708
PFK1								
PFK2								
PFK3								
PFK4								

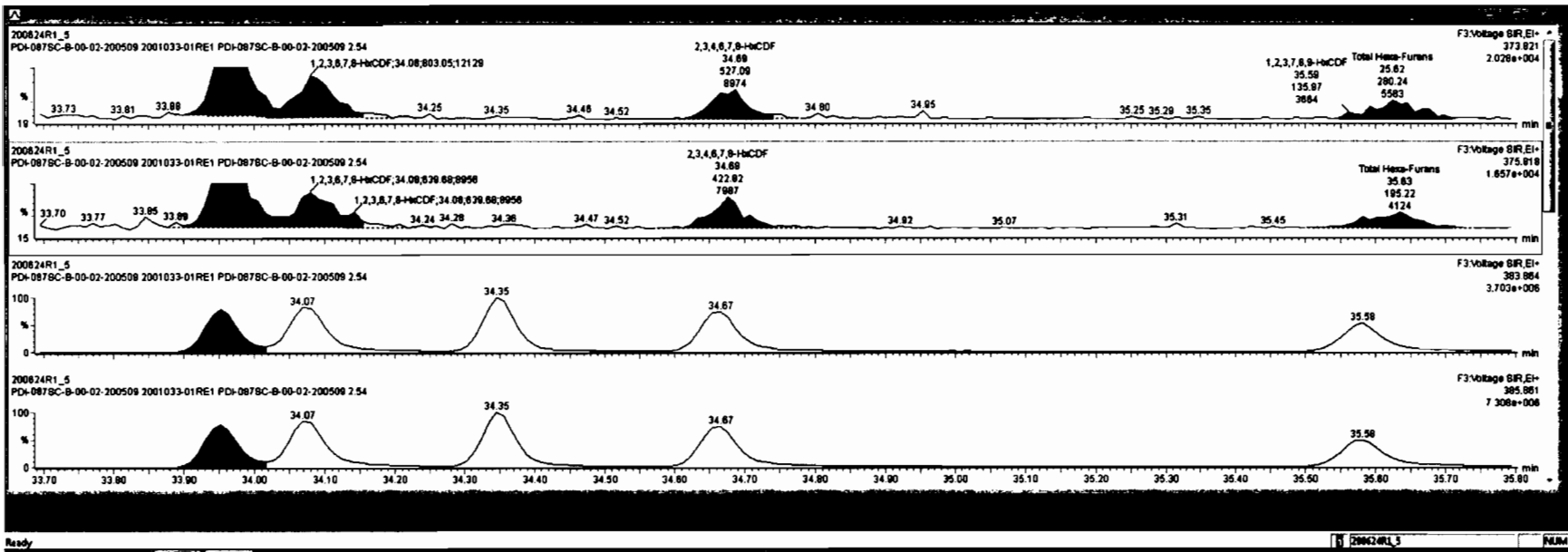
Total Hexa-Furans	32.79	2.144e3	1.886e3	1.15	NO	17.055	17.055
Total Hexa-Furans	32.85	5.573e3	4.945e3	1.13	NO	44.738	44.738
Total Hexa-Furans	33.80	9.573e3	7.886e3	1.22	NO	74.173	74.173
1,2,3,4,7,8-HxCDF	33.88	1.485e3	1.220e3	1.22	NO	12.541	12.541
1,2,3,6,7,8-HxCDF	34.08	8.030e2	8.397e2	1.28	NO	6.6037	6.6037
1,2,3,4,6,7,8-HxCDF	34.80	6.771e2	4.739e2	1.36	NO	3.8847	3.8847





RT	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
45	Total Penta-Furans			0.8825	1.022	28.27			20.3		0.801	28.1
47	Total Hexa-Furans			0.8734	1.022	37.83			706		4.85	706
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											

Sample	RT	Area	Height	Width	Area%	Height%	Width%
1	Total Hexa-Furans	32.79	2.144e3	1.886e3	1.15	NO	17.055
2	Total Hexa-Furans	32.95	5.573e3	4.945e3	1.13	NO	44.736
3	Total Hexa-Furans	33.50	8.573e3	7.886e3	1.22	NO	74.173
4	1,2,3,4,7,8-HxCDF	33.98	1.485e3	1.220e3	1.22	NO	12.541
5	1,2,3,6,7,8-HxCDF	34.08	8.030e2	8.387e2	1.26	NO	5.5037
6	1,2,3,6,7,8-HxCDF	34.88	4.774e2	4.774e2	1.26	NO	3.8877



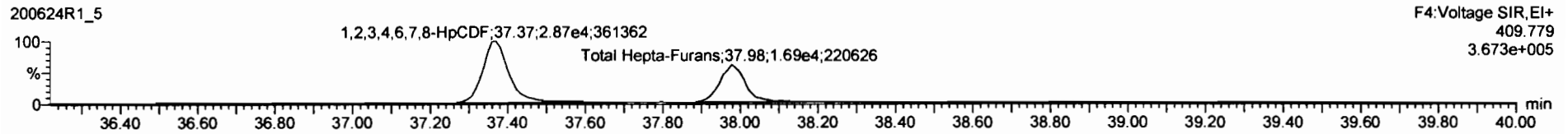
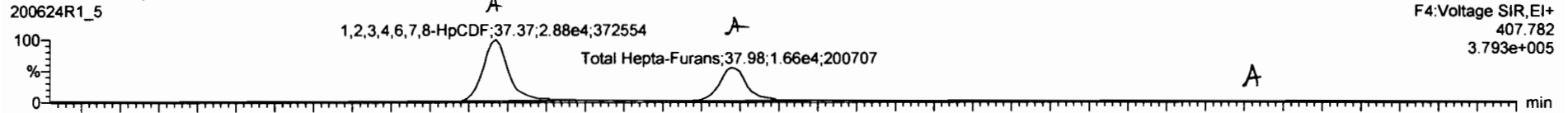
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Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time

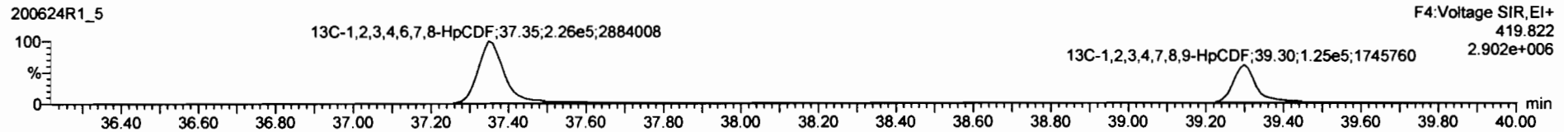
Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

Name: 200624R1\_5, Date: 24-Jun-2020, Time: 12:11:38, ID: 2001033-01RE1 PDI-087SC-B-00-02-200509 2.54, Description: PDI-087SC-B-00-02-200509

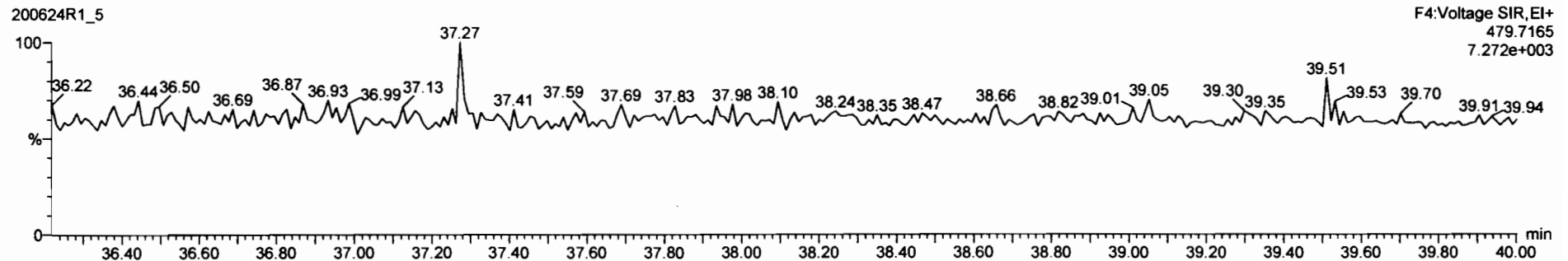
**1,2,3,4,6,7,8-HpCDF**



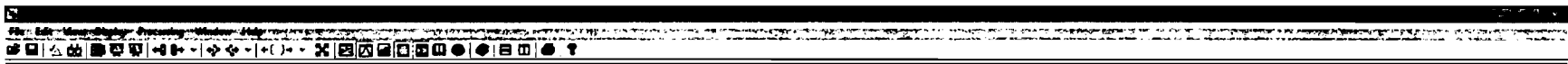
**13C-1,2,3,4,6,7,8-HpCDF**



**DPE4**

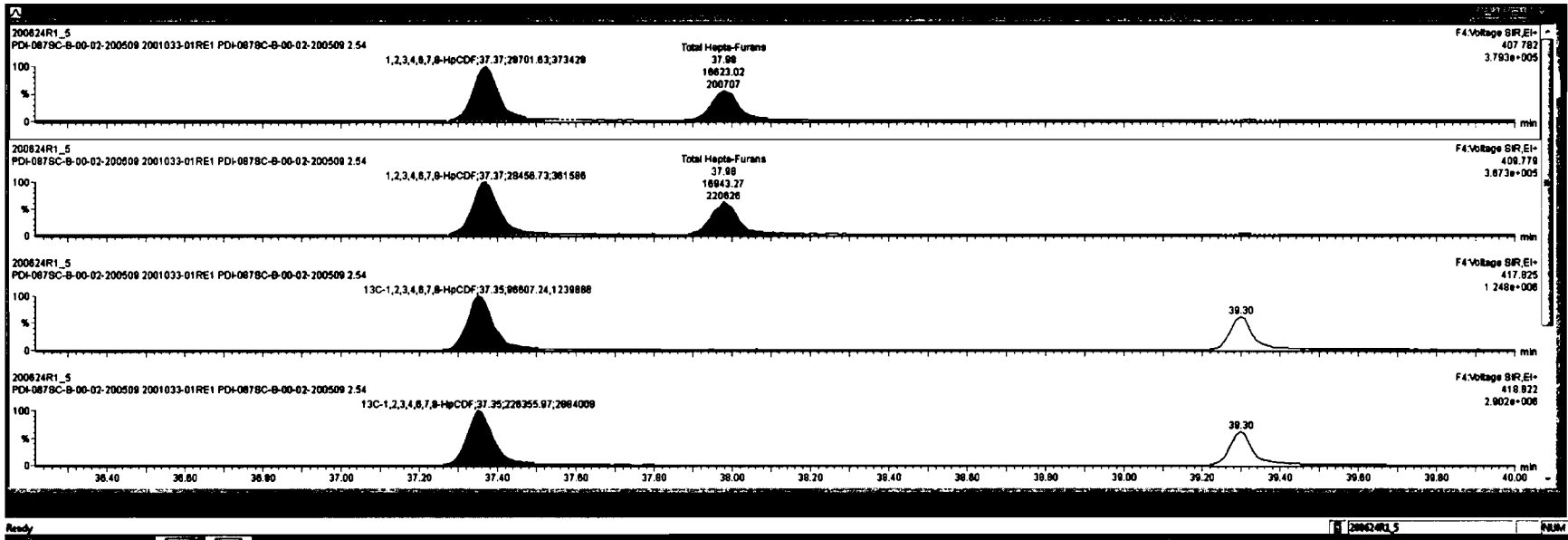






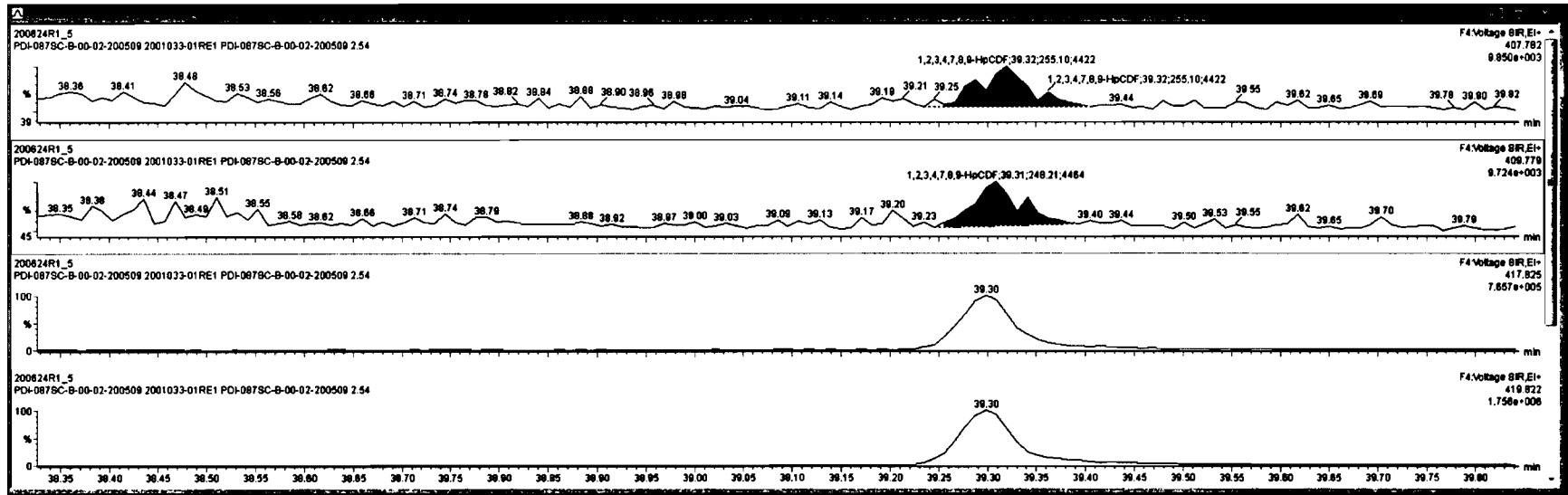
Total Penta-Furans			0.8825	1.022	28.27		20.3	0.801	28.1
Total Hexa-Furans			0.8241	1.022	33.50		1.98	1.44	181
PFK1									
PFK2									
PFK3									
PFK4									

1,2,3,4,6,7,8-HpCDF	37.37	2.870e4	2.898e4	1.01	NO	388.88	388.88
Total Hepta-Furans	37.88	1.882e4	1.884e4	0.98	NO	301.13	301.13
1,2,3,4,7,8-HpCDF	38.32	2.551e2	2.482e2	1.03	NO	5.5045	5.5045



Peak	Retention Time (min)	Area	Height	Width	Height/Width	Area/Height	Area/Width	Area/Height/Width
45	38.25	1.022	28.27			20.3		0.201
46	38.32	1.022	33.98			1.96		1.44
47								
48								
49								
50								
51								
52								

Peak	Retention Time (min)	Area	Height	Width	Height/Width	Area/Height	Area/Width	Area/Height/Width
1	37.37	2.870e4	2.846e4	1.01	NO	388.88		388.88
2	37.98	1.882e4	1.884e4	0.89	NO	301.13		301.13
3	38.32	2.581e2	2.482e2	1.03	NO	5.9045		5.9045

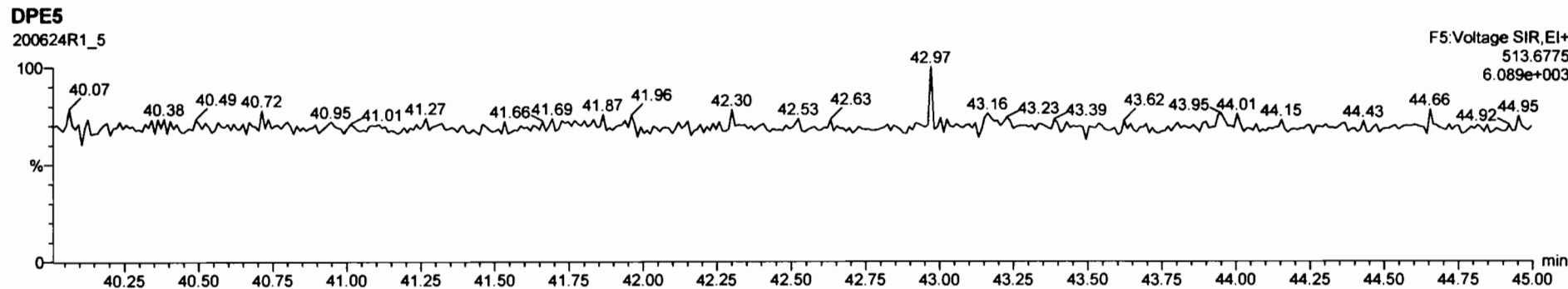
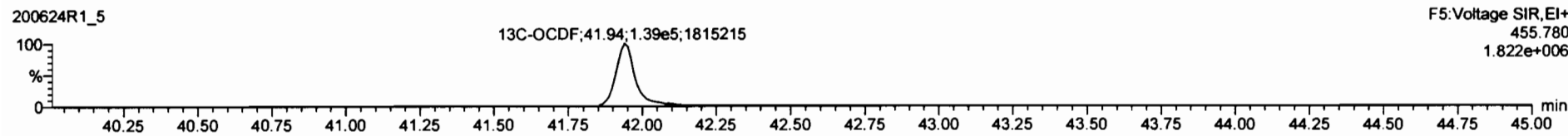
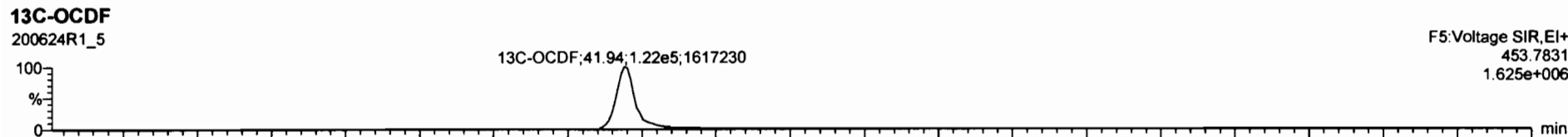
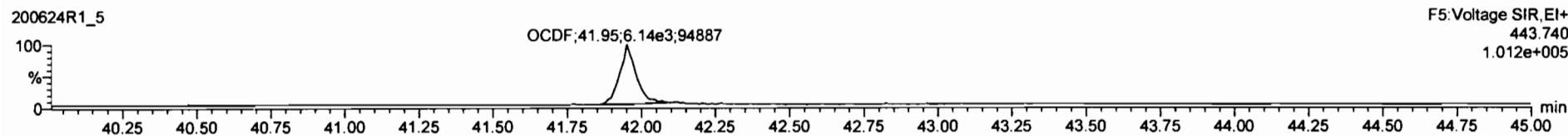
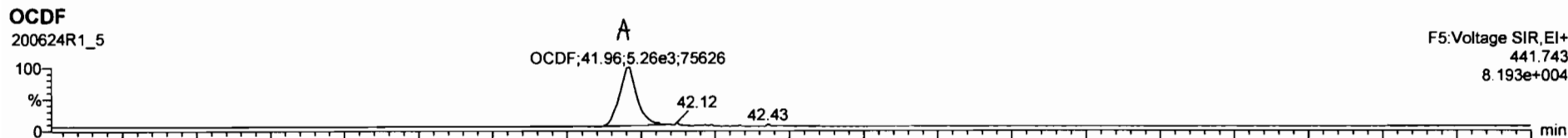


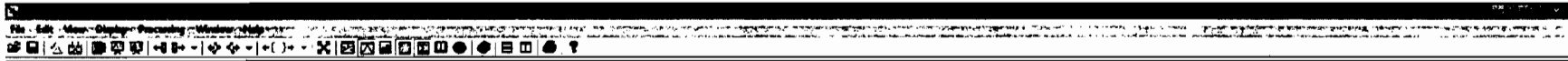
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Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time

Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

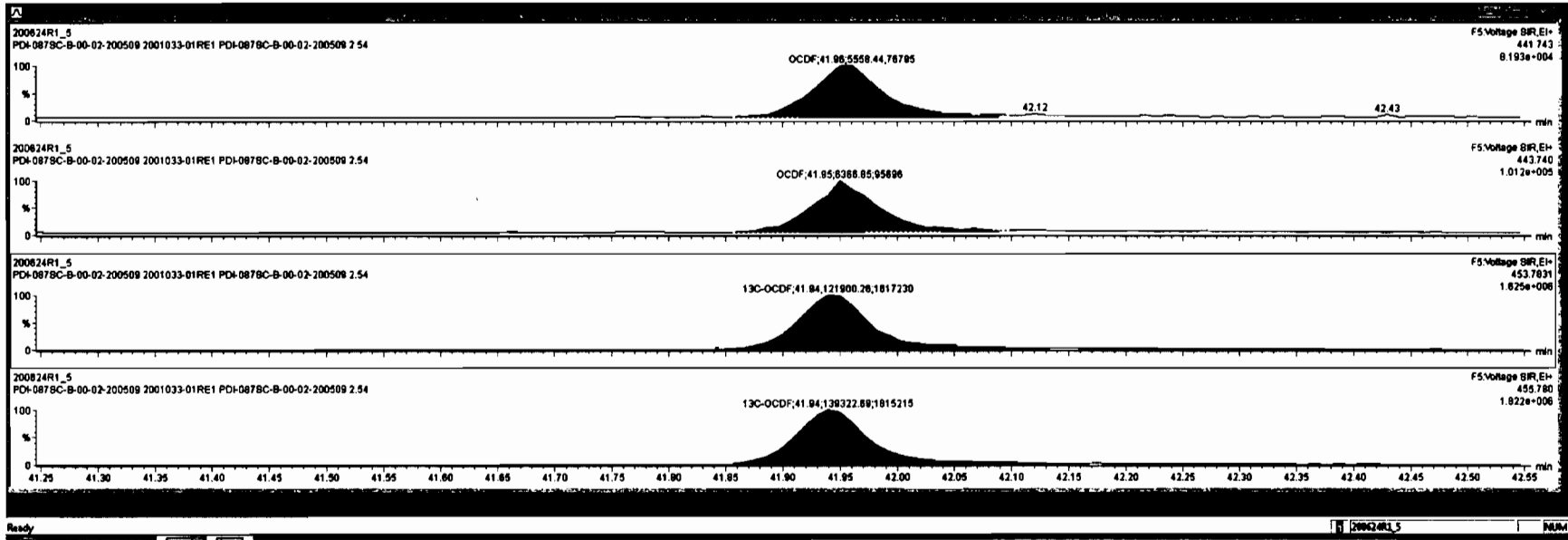
Name: 200624R1\_5, Date: 24-Jun-2020, Time: 12:11:38, ID: 2001033-01RE1 PDI-087SC-B-00-02-200509 2.54, Description: PDI-087SC-B-00-02-200509





Item	Material	QTY	UOM	DESCRIPTION	DATE	TIME	STATUS	REASON	REWORK	REWORK	REWORK	REWORK	REWORK	REWORK	REWORK	REWORK	REWORK	REWORK	REWORK	REWORK
12.3.7.8	OCDF	2.87e2	1.04	YES	0.8707	1.022	35.58	35.58	1.000	1.50			2.13	1.38						
12.3.4.7.8	OCDF	5.72e4	1.01	NO	0.8734	1.022	37.50	37.37	1.001	387			3.88	387						
12.3.4.7.8	OCDF	5.03e2	1.03	NO	1.0128	1.022	38.30	38.32	1.001	5.80			5.54	5.80						
13C-2.3.7.8	TCDD	5.84e5	0.78	NO	1.1583	1.022	26.51	26.48	1.028	1080	55.0		4.28							
13C-1.2.3.7.8	OCDF	5.72e5	0.82	NO	0.8480	1.022	31.88	31.45	1.218	1410	72.2		3.22							
13C-1.2.3.4.7.8	OCDF	3.73e5	1.29	NO	0.7790	1.022	34.83	34.83	1.014	1880	79.5		7.47							

Item	Material	QTY	UOM	DESCRIPTION	DATE	TIME	STATUS	REASON	REWORK	REWORK	REWORK	REWORK	REWORK	REWORK	REWORK	REWORK	REWORK	REWORK	REWORK	

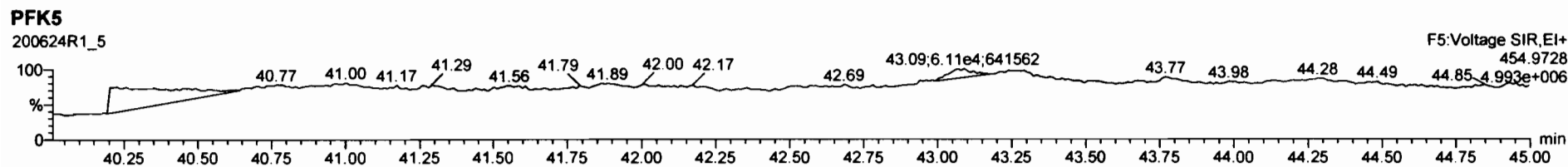
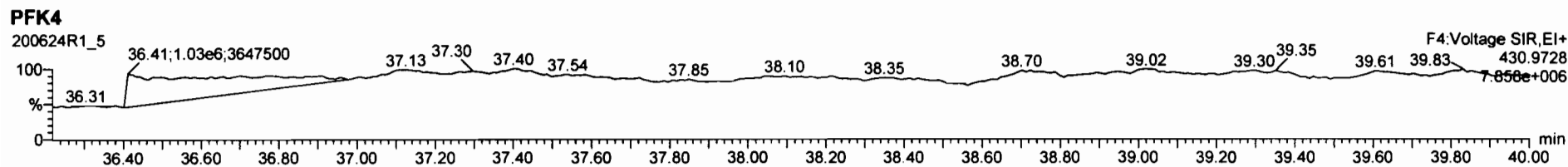
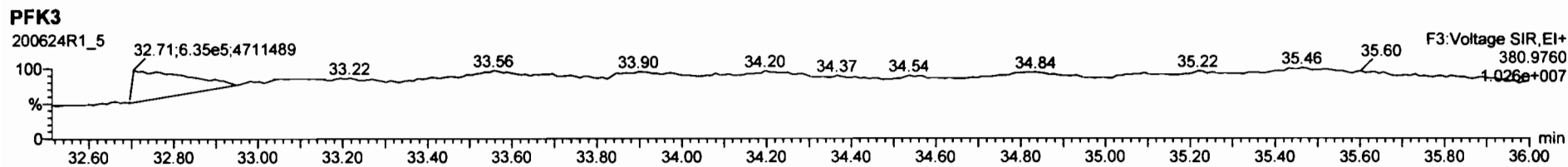
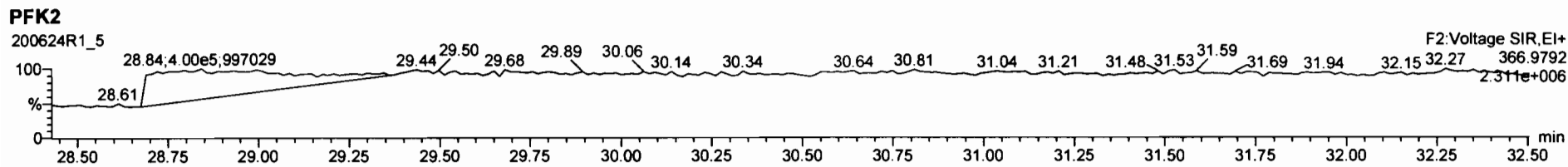
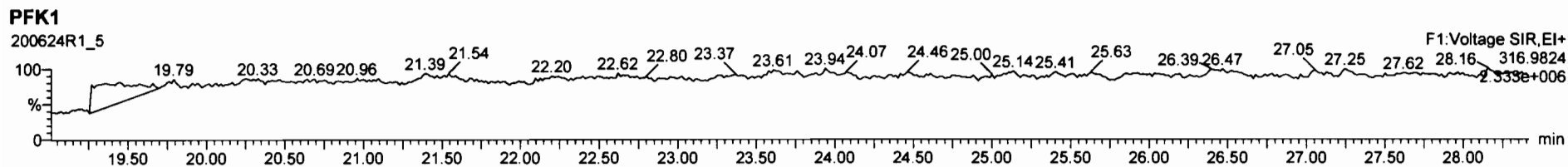


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Last Altered: Thursday, June 25, 2020 07:31:00 Pacific Daylight Time

Printed: Thursday, June 25, 2020 07:31:25 Pacific Daylight Time

Name: 200624R1\_5, Date: 24-Jun-2020, Time: 12:11:38, ID: 2001033-01RE1 PDI-087SC-B-00-02-200509 2.54, Description: PDI-087SC-B-00-02-200509



Dataset: U:\VG12.PRO\Results\200618R1\200618R1-8.qld

Last Altered: Friday, June 19, 2020 09:19:26 Pacific Daylight Time

Printed: Friday, June 19, 2020 09:20:04 Pacific Daylight Time

GRB 06/19/2020

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: 200618R1\_8, Date: 18-Jun-2020, Time: 18:30:37, ID: 2001033-02 PDI-087SC-B-02-05-200509 21.1, Description: PDI-087SC-B-02-05-200509

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Corr.	Area	Conc.	Conc.
1	2,3,7,8-TCDD	9.95e2	0.39	YES	0.888	11.132	26.515	26.50	1.001	1.001	0.21786	0.0827	0.142	
2	1,2,3,7,8-PeCDD	9.14e2	0.82	YES	0.908	11.132	31.473	31.47	1.001	1.000	0.28095	0.152	0.251	
3	1,2,3,4,7,8-HxCDD			NO	1.03	11.132	34.835		1.000			0.180		
4	1,2,3,6,7,8-HxCDD	3.39e3	1.28	NO	0.892	11.132	34.932	34.95	1.000	1.001	1.1094	0.170	1.11	
5	1,2,3,7,8,9-HxCDD	1.07e3	1.25	NO	0.887	11.132	35.230	35.24	1.000	1.001	0.44715	0.213	0.447	
6	1,2,3,4,6,7,8-HpCDD	7.91e4	1.01	NO	0.864	11.132	38.778	38.78	1.000	1.000	45.882	0.642	45.9	
7	OCDD	1.08e6	0.88	NO	0.914	11.132	41.759	41.77	1.000	1.000	803.68	1.90	804	
8	2,3,7,8-TCDF	2.96e3	0.80	NO	0.751	11.132	25.612	25.62	1.001	1.001	0.53805 (0.444)	0.142	0.538	
9	1,2,3,7,8-PeCDF	2.18e3	1.36	NO	0.893	11.132	30.190	30.18	1.001	1.001	0.45686	0.154	0.457	
10	2,3,4,7,8-PeCDF	1.24e4	1.55	NO	0.935	11.132	31.177	31.19	1.001	1.001	2.5516	0.143	2.55	
11	1,2,3,4,7,8-HxCDF	7.70e3	1.07	NO	0.884	11.132	33.952	33.97	1.000	1.001	2.8491	0.197	2.85	
12	1,2,3,6,7,8-HxCDF	3.34e3	1.18	NO	0.889	11.132	34.090	34.09	1.000	1.000	0.92845	0.179	0.928	
13	2,3,4,6,7,8-HxCDF	3.74e3	1.10	NO	0.934	11.132	34.701	34.68	1.001	1.000	1.2237	0.211	1.22	
14	1,2,3,7,8,9-HxCDF	6.78e2	1.07	NO	0.871	11.132	35.582	35.62	1.000	1.001	0.28767	0.339	0.288	
15	1,2,3,4,6,7,8-HpCDF	3.79e4	0.99	NO	0.873	11.132	37.397	37.38	1.001	1.001	19.425	0.498	19.4	
16	1,2,3,4,7,8,9-HpCDF	8.21e2	0.96	NO	1.01	11.132	39.309	39.32	1.000	1.000	0.56247	0.606	0.562	
17	OCDF	3.16e4	0.86	NO	0.806	11.132	41.951	41.96	1.000	1.000	22.056	0.384	22.1	
18	13C-2,3,7,8-TCDD	9.24e5	0.80	NO	1.16	11.132	26.507	26.48	1.026	1.025	169.73	94.5	0.239	
19	13C-1,2,3,7,8-PeCDD	6.43e5	0.59	NO	0.849	11.132	31.692	31.45	1.227	1.218	160.99	89.6	0.375	
20	13C-1,2,3,4,7,8-HxCDD	3.95e5	1.30	NO	0.779	11.132	34.840	34.83	1.014	1.014	126.36	70.3	0.627	
21	13C-1,2,3,6,7,8-HxCDD	6.16e5	1.19	NO	1.02	11.132	34.954	34.93	1.017	1.017	150.86	84.0	0.481	
22	13C-1,2,3,7,8,9-HxCDD	4.86e5	1.07	NO	0.903	11.132	35.225	35.22	1.025	1.025	134.06	74.6	0.541	
23	13C-1,2,3,4,6,7,8-HpCDD	3.59e5	1.06	NO	0.689	11.132	38.750	38.77	1.128	1.128	129.57	72.1	0.750	
24	13C-OCDD	5.30e5	0.89	NO	0.652	11.132	41.773	41.76	1.216	1.215	202.20	56.3	0.727	
25	13C-2,3,7,8-TCDF	1.32e6	0.78	NO	1.06	11.132	25.549	25.59	0.989	0.991	168.74	93.9	0.264	
26	13C-1,2,3,7,8-PeCDF	9.62e5	1.60	NO	0.838	11.132	30.076	30.17	1.165	1.168	155.71	86.7	0.606	
27	13C-2,3,4,7,8-PeCDF	9.33e5	1.61	NO	0.817	11.132	31.029	31.15	1.202	1.206	155.08	86.3	0.622	
28	13C-1,2,3,4,7,8-HxCDF	5.49e5	0.49	NO	1.01	11.132	33.971	33.95	0.989	0.988	135.70	75.5	0.710	
29	13C-1,2,3,6,7,8-HxCDF	7.26e5	0.48	NO	1.17	11.132	34.095	34.08	0.992	0.992	154.92	86.2	0.613	
30	13C-2,3,4,6,7,8-HxCDF	5.89e5	0.50	NO	1.02	11.132	34.669	34.67	1.009	1.009	143.40	79.8	0.700	
31	13C-1,2,3,7,8,9-HxCDF	4.86e5	0.49	NO	0.860	11.132	35.569	35.58	1.035	1.036	140.83	78.4	0.832	

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-8.qld

Last Altered: Friday, June 19, 2020 09:19:26 Pacific Daylight Time  
Printed: Friday, June 19, 2020 09:20:04 Pacific Daylight Time

Name: 200618R1\_8, Date: 18-Jun-2020, Time: 18:30:37, ID: 2001033-02 PDI-087SC-B-02-05-200509 21.1, Description: PDI-087SC-B-02-05-200509

W Name	RA	n/y	RRF	WVDF	Prod RT	Int	IPW RT	Area	Area	Area	Area	Area	Area
32 13C-1,2,3,4,6,7,8-HpCDF	4.01e5	0.42	NO	0.774	11.132	37.317	37.36	1.086	1.087	128.88	71.7	0.646	
33 13C-1,2,3,4,7,8,9-HpCDF	2.59e5	0.44	NO	0.521	11.132	39.348	39.31	1.145	1.144	123.77	68.9	0.960	
34 13C-OCDF	6.37e5	0.89	NO	0.746	11.132	41.945	41.95	1.221	1.221	212.86	59.2	0.622	
35 37Cl-2,3,7,8-TCDD	3.62e5			1.04	11.132	26.538	26.50	1.028	1.026	74.263	103	0.0619	
36 13C-1,2,3,4-TCDD	8.46e5	0.79	NO	1.00	11.132	25.890	25.83	1.000	1.000	179.66	100	0.276	
37 13C-1,2,3,4-TCDF	1.32e6	0.79	NO	1.00	11.132	24.360	24.13	1.000	1.000	179.66	100	0.280	
38 13C-1,2,3,4,6,9-HxCDF	7.22e5	0.50	NO	1.00	11.132	34.420	34.36	1.000	1.000	179.66	100	0.715	
39 Total Tetra-Dioxins				0.888	11.132	24.620		0.000		1.9724		0.0827	2.20
40 Total Penta-Dioxins				0.908	11.132	29.960		0.000		3.5981		0.152	4.68
41 Total Hexa-Dioxins				0.892	11.132	33.635		0.000		12.332		0.194	12.3
42 Total Hepta-Dioxins				0.864	11.132	37.640		0.000		117.51		0.642	118
43 Total Tetra-Furans				0.751	11.132	23.610		0.000		18.428		0.142	18.4 P
44 1st Func. Penta-Furans				0.893	11.132	27.580		0.000		20.014		0.0388	20.0
45 Total Penta-Furans				0.893	11.132	29.275		0.000		16.491		0.152	16.6 P
46 Total Hexa-Furans				0.934	11.132	33.555		0.000		30.585		0.214	30.6
47 Total Hepta-Furans				0.873	11.132	37.835		0.000		46.316		0.578	46.3

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-8.qld

Last Altered: Friday, June 19, 2020 09:19:26 Pacific Daylight Time  
Printed: Friday, June 19, 2020 09:20:04 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: 200618R1\_8, Date: 18-Jun-2020, Time: 18:30:37, ID: 2001033-02 PDI-087SC-B-02-05-200509 21.1, Description: PDI-087SC-B-02-05-200509

**Tetra-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NY	Resp	Conc	EMPC	DL
Total Tetra-Dioxins	22.49	1.574e4	2.120e4	1.593e3	1.953e3	0.82	NO	3.546e3	0.77615	0.77615	0.0827
Total Tetra-Dioxins	22.92	6.176e3	5.551e3	5.135e2	6.042e2	0.85	NO	1.118e3	0.24464	0.24464	0.0827
Total Tetra-Dioxins	24.55	7.803e3	1.078e4	7.596e2	1.011e3	0.75	NO	1.770e3	0.38752	0.38752	0.0827
Total Tetra-Dioxins	24.79	8.499e3	1.103e4	7.095e2	8.225e2	0.86	NO	1.532e3	0.33532	0.33532	0.0827
Total Tetra-Dioxins	25.02	3.176e3	2.871e3	1.873e2	2.265e2	0.83	NO	0.000e0	0.00000	0.090572	0.0827
Total Tetra-Dioxins	25.42	2.944e3	4.765e3	2.462e2	3.208e2	0.77	NO	5.669e2	0.12409	0.12409	0.0827
2,3,7,8-TCDD	26.50	4.101e3	1.375e4	2.815e2	7.138e2	0.39	YES	9.953e2	0.00000	0.14163	0.0827
Total Tetra-Dioxins	26.84	2.753e3	4.849e3	2.017e2	2.765e2	0.73	NO	4.782e2	0.10467	0.10467	0.0827

**Penta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NY	Resp	Conc	EMPC	DL
Total Penta-Dioxins	29.24	2.847e4	3.907e4	2.058e3	3.182e3	0.65	NO	5.239e3	1.6110	1.6110	0.152
Total Penta-Dioxins	29.73	6.758e3	3.704e3	2.266e2	2.381e2	0.95	YES	0.000e0	0.00000	0.11935	0.152
Total Penta-Dioxins	30.22	2.297e4	4.112e4	1.453e3	2.264e3	0.64	NO	3.716e3	1.1427	1.1427	0.152
Total Penta-Dioxins	30.38	9.716e3	1.993e4	4.937e2	1.127e3	0.44	YES	0.000e0	0.00000	0.39275	0.152
Total Penta-Dioxins	30.49	6.441e3	1.251e4	4.052e2	7.126e2	0.57	NO	1.118e3	0.34372	0.34372	0.152
Total Penta-Dioxins	30.73	7.080e3	1.149e4	6.393e2	9.890e2	0.65	NO	1.628e3	0.50068	0.50068	0.152
Total Penta-Dioxins	31.02	2.895e3	6.048e3	1.012e2	2.149e2	0.47	YES	0.000e0	0.00000	0.080535	0.152
1,2,3,7,8-PeCDD	31.47	8.015e3	8.556e3	4.130e2	5.007e2	0.82	YES	9.137e2	0.00000	0.25098	0.152
Total Penta-Dioxins	31.53	3.913e3	6.030e3	2.156e2	2.451e2	0.88	YES	0.000e0	0.00000	0.12285	0.152
Total Penta-Dioxins	31.85	5.923e3	4.702e3	2.450e2	2.236e2	1.10	YES	0.000e0	0.00000	0.11209	0.152



Dataset: U:\VG12.PRO\Results\200618R1\200618R1-8.qld

Last Altered: Friday, June 19, 2020 09:19:26 Pacific Daylight Time  
 Printed: Friday, June 19, 2020 09:20:04 Pacific Daylight Time

Name: 200618R1\_8, Date: 18-Jun-2020, Time: 18:30:37, ID: 2001033-02 PDI-087SC-B-02-05-200509 21.1, Description: PDI-087SC-B-02-05-200509

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Q1	Q2	Q3	Q4	Q5	Q6
Total Hexa-Dioxins	33.35	9.815e4	7.383e4	5.686e3	4.391e3	1.29	NO	1.008e4	4.0657	4.0657	0.194	
Total Hexa-Dioxins	33.89	1.847e4	1.548e4	1.136e3	1.013e3	1.12	NO	2.148e3	0.86667	0.86667	0.194	
Total Hexa-Dioxins	34.15	9.799e4	8.232e4	7.134e3	5.838e3	1.22	NO	1.297e4	5.2332	5.2332	0.194	
Total Hexa-Dioxins	34.25	1.489e4	9.720e3	7.923e2	7.182e2	1.10	NO	1.510e3	0.60938	0.60938	0.194	
1,2,3,6,7,8-HxCDD	34.95	2.854e4	2.699e4	1.904e3	1.490e3	1.28	NO	3.394e3	1.1094	1.1094	0.170	
1,2,3,7,8,9-HxCDD	35.24	7.485e3	1.068e4	5.957e2	4.771e2	1.25	NO	1.073e3	0.44715	0.44715	0.213	

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Q1	Q2	Q3	Q4	Q5	Q6
Total Hepta-Dioxins	37.76	6.719e5	6.458e5	6.307e4	6.044e4	1.04	NO	1.235e5	71.625	71.625	0.642	
1,2,3,4,6,7,8-HpCDD	38.78	4.603e5	4.621e5	3.967e4	3.945e4	1.01	NO	7.912e4	45.882	45.882	0.642	

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-8.qld

Last Altered: Friday, June 19, 2020 09:19:26 Pacific Daylight Time  
 Printed: Friday, June 19, 2020 09:20:04 Pacific Daylight Time

Name: 200618R1\_8, Date: 18-Jun-2020, Time: 18:30:37, ID: 2001033-02 PDI-087SC-B-02-05-200509 21.1, Description: PDI-087SC-B-02-05-200509

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Hy	Resp	EMPC	EMPS	DL
Total Tetra-Furans	20.36	7.616e3	7.366e3	5.775e2	6.825e2	0.85	NO	1.260e3	0.22889	0.22889	0.142
Total Tetra-Furans	20.87	2.265e4	3.015e4	2.014e3	2.552e3	0.79	NO	4.567e3	0.82958	0.82958	0.142
Total Tetra-Furans	21.47	1.124e5	1.598e5	1.088e4	1.470e4	0.74	NO	2.558e4	4.6470	4.6470	0.142
Total Tetra-Furans	21.95	1.104e4	1.556e4	9.496e2	1.143e3	0.83	NO	2.092e3	0.38008	0.38008	0.142
Total Tetra-Furans	22.05	8.454e3	1.193e4	7.217e2	1.096e3	0.66	NO	1.817e3	0.33016	0.33016	0.142
Total Tetra-Furans	22.46	4.896e4	6.733e4	4.976e3	6.796e3	0.73	NO	1.177e4	2.1385	2.1385	0.142
Total Tetra-Furans	22.94	6.486e4	9.734e4	6.664e3	9.281e3	0.72	NO	1.595e4	2.8966	2.8966	0.142
Total Tetra-Furans	23.04	3.305e3	5.809e3	3.199e2	4.485e2	0.71	NO	7.684e2	0.13959	0.13959	0.142
Total Tetra-Furans	23.28	5.374e3	6.145e3	3.879e2	5.102e2	0.76	NO	8.981e2	0.16315	0.16315	0.142
Total Tetra-Furans	23.89	1.041e4	1.245e4	7.639e2	1.022e3	0.75	NO	1.786e3	0.32448	0.32448	0.142
Total Tetra-Furans	24.04	5.991e4	8.300e4	5.613e3	7.477e3	0.75	NO	1.309e4	2.3779	2.3779	0.142
Total Tetra-Furans	24.16	1.277e4	1.591e4	8.018e2	1.027e3	0.78	NO	1.829e3	0.33227	0.33227	0.142
Total Tetra-Furans	24.67	2.141e4	2.724e4	2.063e3	2.744e3	0.75	NO	4.807e3	0.87320	0.87320	0.142
Total Tetra-Furans	24.94	3.800e3	7.105e3	2.754e2	4.146e2	0.66	NO	6.899e2	0.12534	0.12534	0.142
Total Tetra-Furans	25.17	5.579e3	4.913e3	3.742e2	4.399e2	0.85	NO	8.141e2	0.14789	0.14789	0.142
Total Tetra-Furans	25.36	4.473e3	5.718e3	2.668e2	3.546e2	0.75	NO	6.215e2	0.11290	0.11290	0.142
Total Tetra-Furans	25.48	1.086e4	1.619e4	7.881e2	1.090e3	0.72	NO	1.878e3	0.34110	0.34110	0.142
2,3,7,8-TCDF	25.62	1.508e4	1.957e4	1.319e3	1.643e3	0.80	NO	2.962e3	0.53805	0.53805	0.142
Total Tetra-Furans	25.96	7.016e3	1.071e4	5.049e2	6.036e2	0.84	NO	1.108e3	0.20137	0.20137	0.142
Total Tetra-Furans	27.14	9.481e3	1.201e4	5.505e2	7.461e2	0.74	NO	1.297e3	0.23555	0.23555	0.142
Total Tetra-Furans	27.31	1.356e4	1.650e4	8.372e2	9.676e2	0.87	NO	1.805e3	0.32786	0.32786	0.142
Total Tetra-Furans	27.61	2.373e4	3.080e4	1.746e3	2.311e3	0.76	NO	4.057e3	0.73699	0.73699	0.142

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Hy	Resp	EMPC	EMPS	DL
1st Func. Penta-Furans	27.61	8.895e5	5.313e5	5.883e4	3.536e4	1.66	NO	9.420e4	20.014	20.014	0.0388

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Name: 200618R1\_8, Date: 18-Jun-2020, Time: 18:30:37, ID: 2001033-02 PDI-087SC-B-02-05-200509 21.1, Description: PDI-087SC-B-02-05-200509

**Penta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Hy	Resp	Conc	EMPC	DL
Total Penta-Furans	29.04	2.342e4	1.389e4	1.315e3	9.109e2	1.44	NO	2.226e3	0.47301	0.47301	0.152
Total Penta-Furans	29.19	2.577e5	1.627e5	2.200e4	1.378e4	1.60	NO	3.578e4	7.6017	7.6017	0.152
Total Penta-Furans	29.77	1.320e5	8.580e4	9.248e3	6.107e3	1.51	NO	1.536e4	3.2625	3.2625	0.152
Total Penta-Furans	29.99	9.615e3	8.609e3	6.491e2	4.687e2	1.38	NO	1.118e3	0.23749	0.23749	0.152
1,2,3,7,8-PeCDF	30.18	2.058e4	1.464e4	1.259e3	9.233e2	1.36	NO	2.183e3	0.45686	0.45686	0.154
Total Penta-Furans	30.46	5.683e4	3.025e4	3.876e3	2.378e3	1.63	NO	6.253e3	1.3286	1.3286	0.152
Total Penta-Furans	31.05	1.126e4	5.041e3	5.182e2	2.844e2	1.82	YES	0.000e0	0.00000	0.15411	0.152
2,3,4,7,8-PeCDF	31.19	1.555e5	8.714e4	7.539e3	4.850e3	1.55	NO	1.239e4	2.5516	2.5516	0.143
Total Penta-Furans	31.22	6.615e4	3.710e4	1.745e3	9.834e2	1.77	NO	2.728e3	0.57960	0.57960	0.152

**Hexa-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Hy	Resp	Conc	EMPC	DL
Total Hexa-Furans	32.79	9.815e4	7.336e4	5.275e3	4.314e3	1.22	NO	9.589e3	3.1396	3.1396	0.214
Total Hexa-Furans	32.96	2.675e5	2.096e5	1.528e4	1.278e4	1.20	NO	2.806e4	9.1874	9.1874	0.214
Total Hexa-Furans	33.51	3.853e5	3.177e5	2.132e4	1.795e4	1.19	NO	3.927e4	12.857	12.857	0.214
1,2,3,4,7,8-HxCDF	33.97	6.807e4	5.541e4	3.981e3	3.721e3	1.07	NO	7.701e3	2.8491	2.8491	0.197
1,2,3,6,7,8-HxCDF	34.09	3.055e4	2.270e4	1.805e3	1.531e3	1.18	NO	3.336e3	0.92845	0.92845	0.179
2,3,4,6,7,8-HxCDF	34.68	3.201e4	2.839e4	1.959e3	1.785e3	1.10	NO	3.744e3	1.2237	1.2237	0.211
1,2,3,7,8,9-HxCDF	35.62	8.528e3	6.719e3	3.509e2	3.268e2	1.07	NO	6.777e2	0.28767	0.28767	0.339
Total Hexa-Furans	35.65	6.173e3	4.736e3	1.921e2	1.511e2	1.27	NO	3.432e2	0.11236	0.11236	0.214

**Hepta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Hy	Resp	Conc	EMPC	DL
1,2,3,4,6,7,8-HpCDF	37.38	2.020e5	2.245e5	1.886e4	1.899e4	0.99	NO	3.785e4	19.425	19.425	0.498
Total Hepta-Furans	37.97	2.328e5	2.300e5	2.110e4	2.113e4	1.00	NO	4.223e4	26.329	26.329	0.578
1,2,3,4,7,8,9-HpCDF	39.32	6.252e3	7.270e3	4.031e2	4.180e2	0.96	NO	8.212e2	0.56247	0.56247	0.606

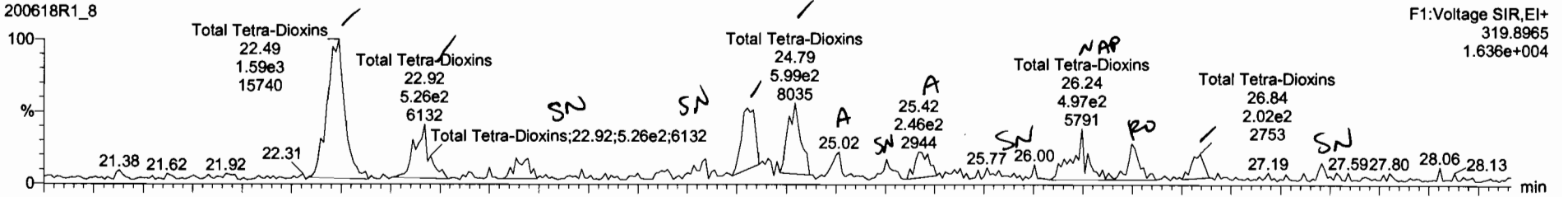
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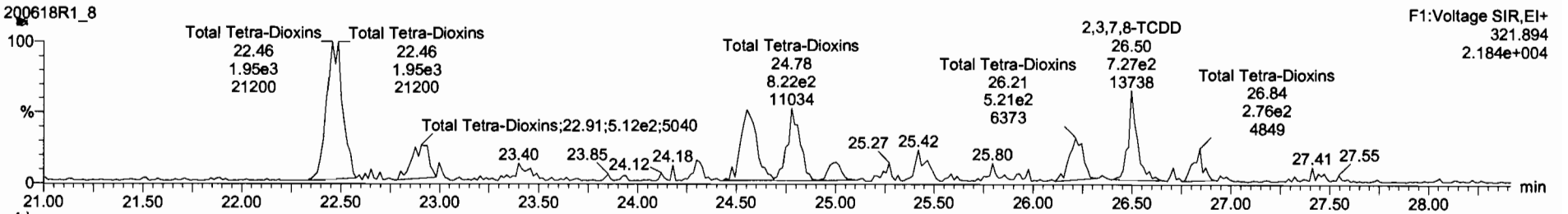
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**2,3,7,8-TCDD**

200618R1\_8

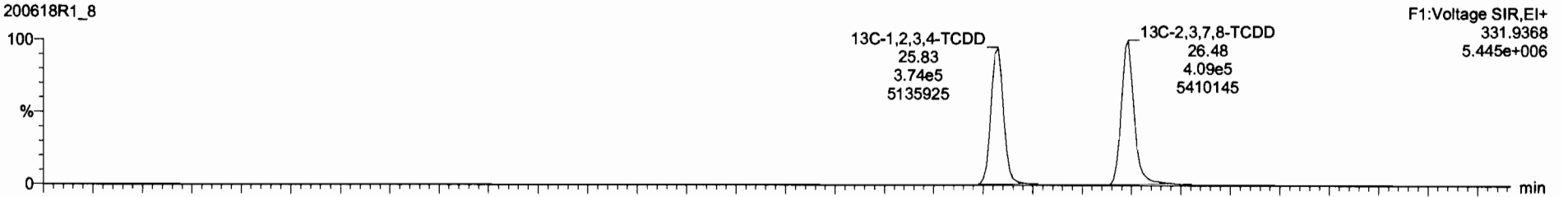


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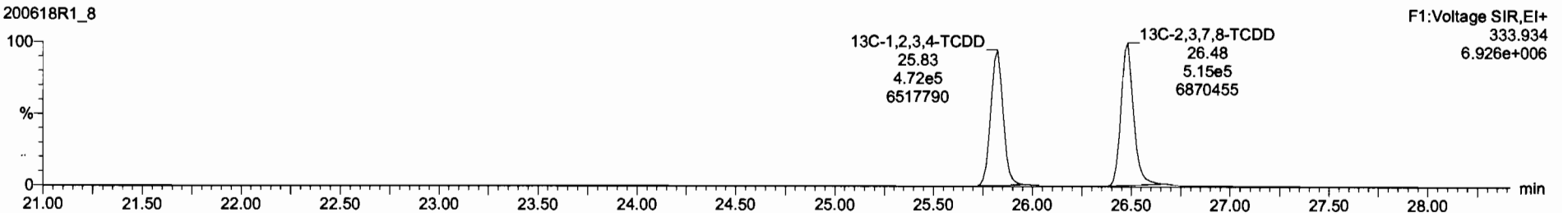


**13C-2,3,7,8-TCDD**

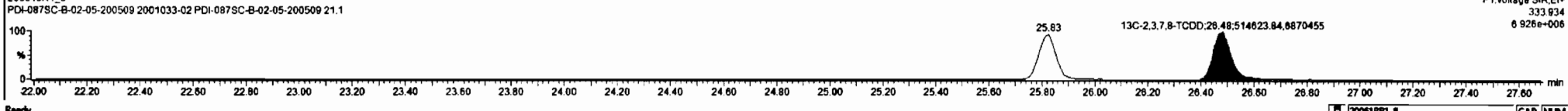
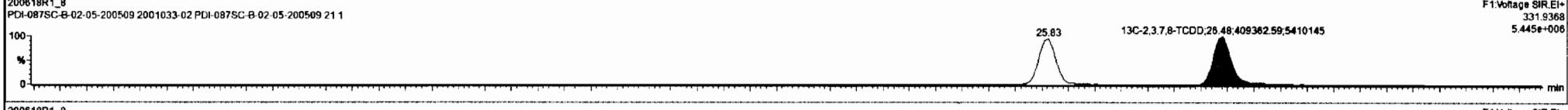
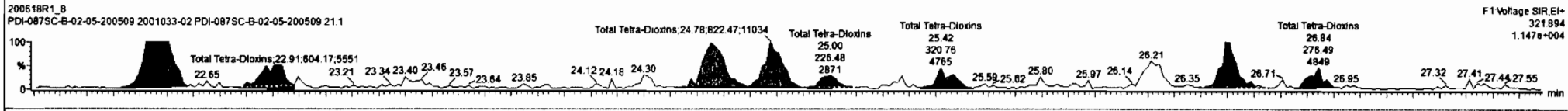
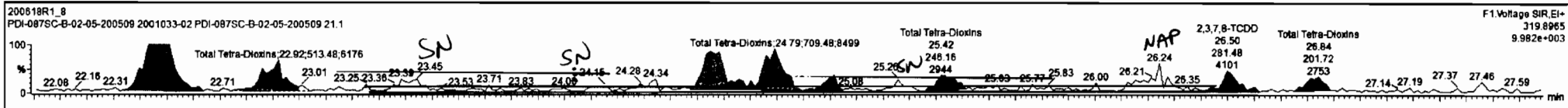
200618R1\_8



200618R1\_8



Component	Concentration	Response	Area	Height	Width	Volume	Weight
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Total Tetra-Dioxins			0.8683	11.132		1.97	0.9827
Total Penta-Dioxins			0.9081	11.132		3.17	0.152
Total Hexa-Dioxins			0.8623	11.132		12.2	0.184
Total Hepta-Dioxins			0.8639	11.132		121	0.642
Total Tetra-Furans			0.7510	11.132		17.1	0.142
1st Func. Penta-Furans			0.8625	11.132		20.0	0.0388
Total Penta-Furans			0.8625	11.132		16.3	0.152
Total Hexa-Furans			0.9341	11.132		29.5	0.214
Total Hepta-Furans			0.8734	11.132		46.4	0.578
PFK1							
PFK2							
PFK3							
PFK4							
PFK5							
DPE1							
DPE2							
DPE3							
DPE4							
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DPE6							



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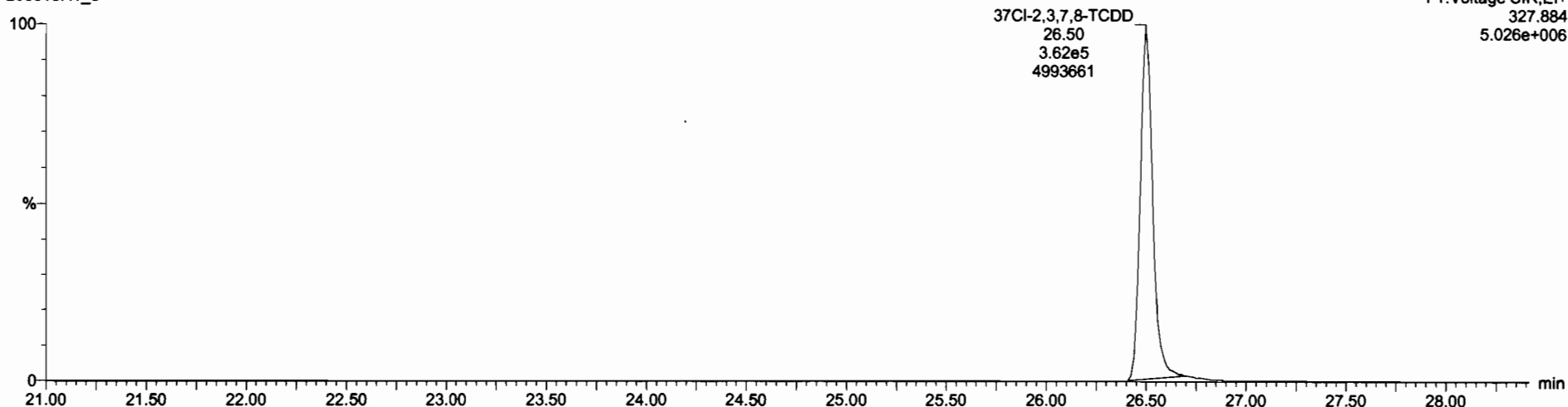
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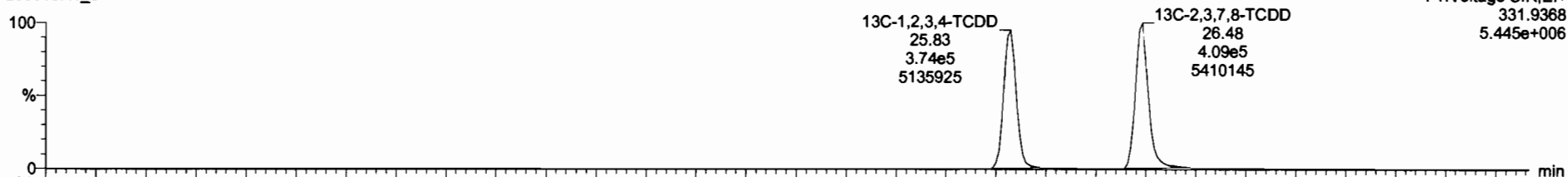
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200618R1\_8

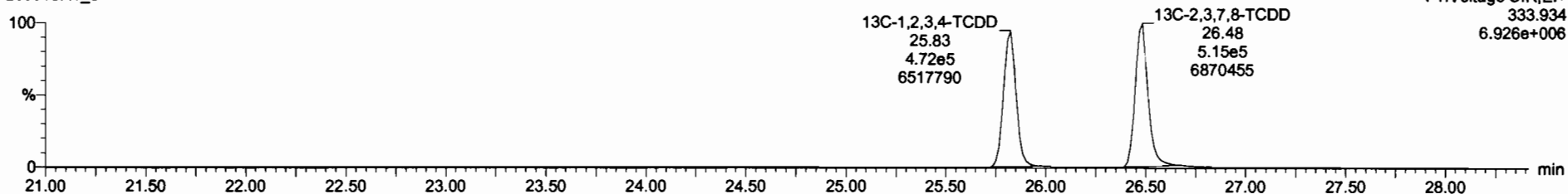


**13C-1,2,3,4-TCDD**

200618R1\_8



200618R1\_8

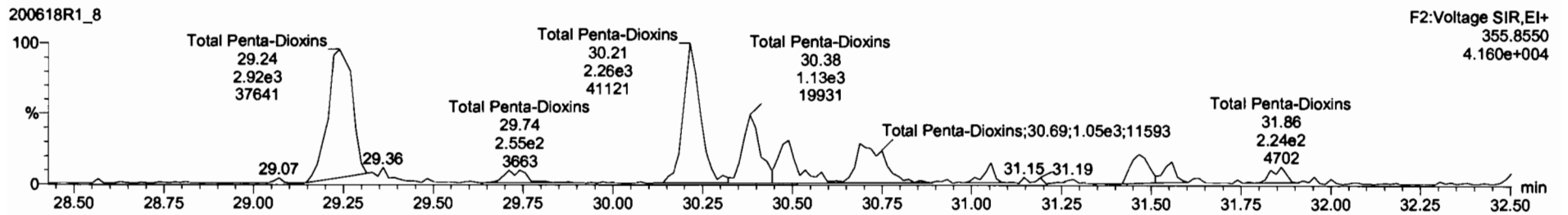
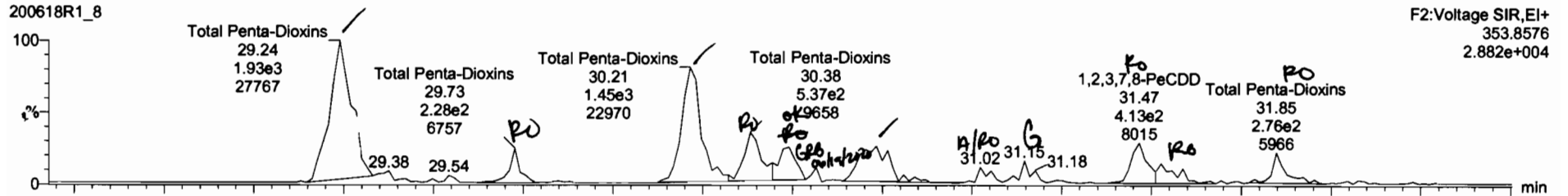


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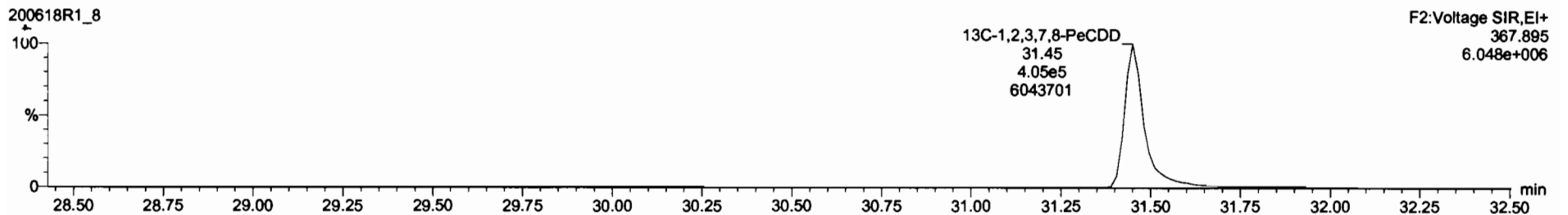
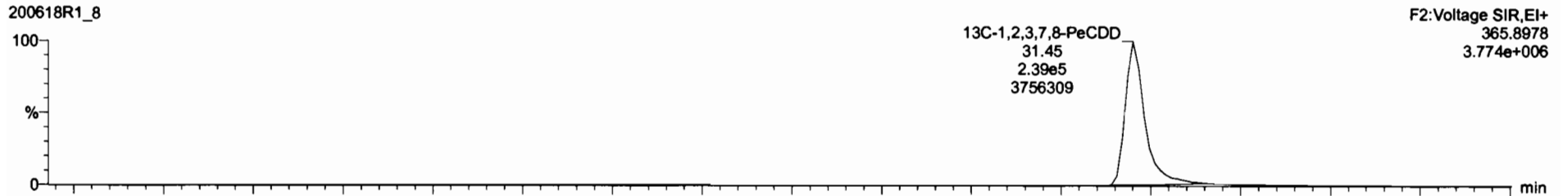
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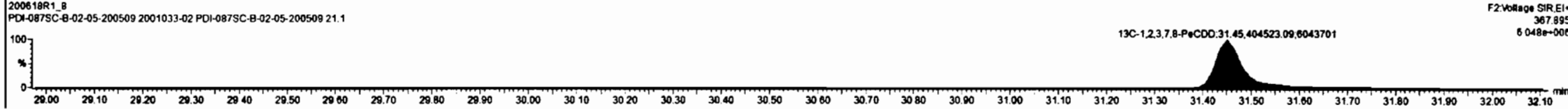
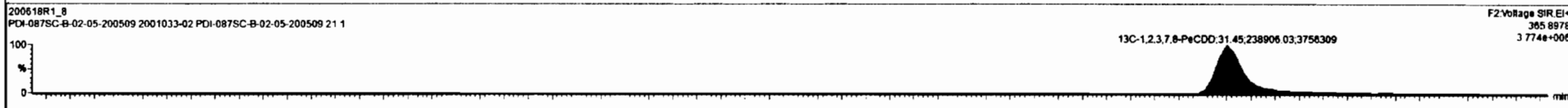
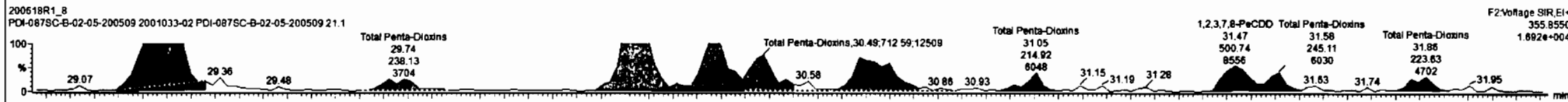
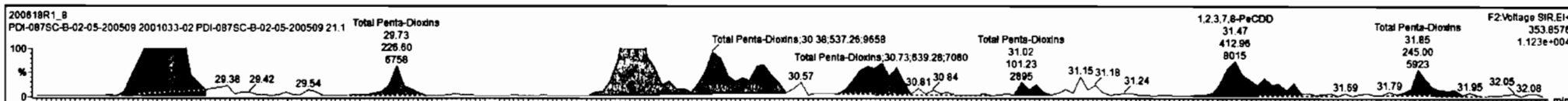
1,2,3,7,8-PeCDD



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



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Total Tetra-Dioxins				0.8863	11.132			1.97		0.0627	2.20
Total Hexa-Dioxins				0.8623	11.132			12.2		0.194	12.2
Total Hepta-Dioxins				0.8639	11.132			121		0.842	122
Total Tetra-Furans				0.7510	11.132			17.1		0.142	17.9
1st Func. Penta-Furans				0.8625	11.132			20.0		0.0388	20.0
Total Penta-Furans				0.8625	11.132			16.3		0.152	16.3
Total Hexa-Furans				0.9341	11.132			29.5		0.214	30.8
Total Hepta-Furans				0.8734	11.132			46.4		0.578	46.8
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
DPE6											





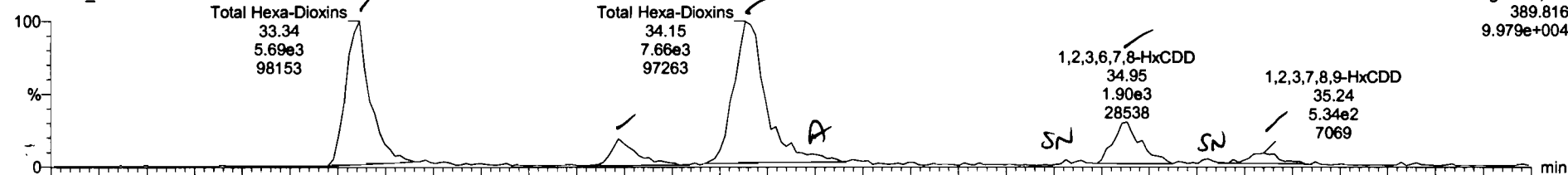
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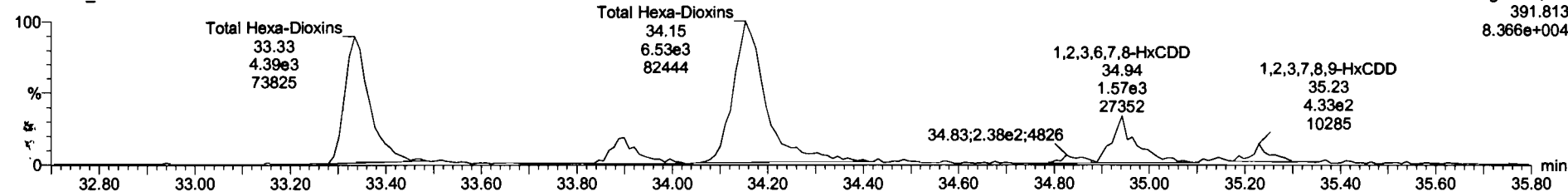
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1,2,3,4,7,8-HxCDD

200618R1\_8



200618R1\_8

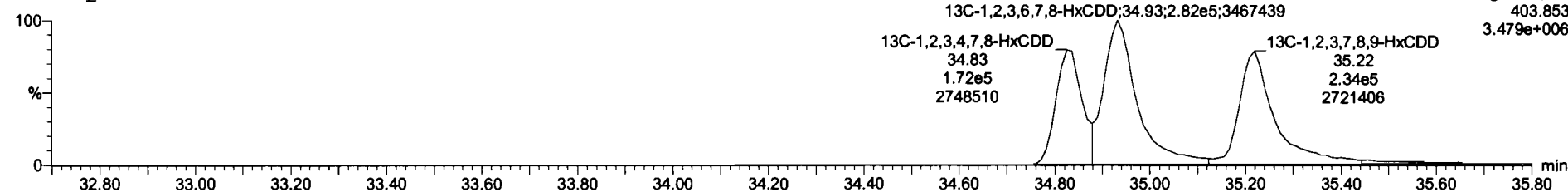


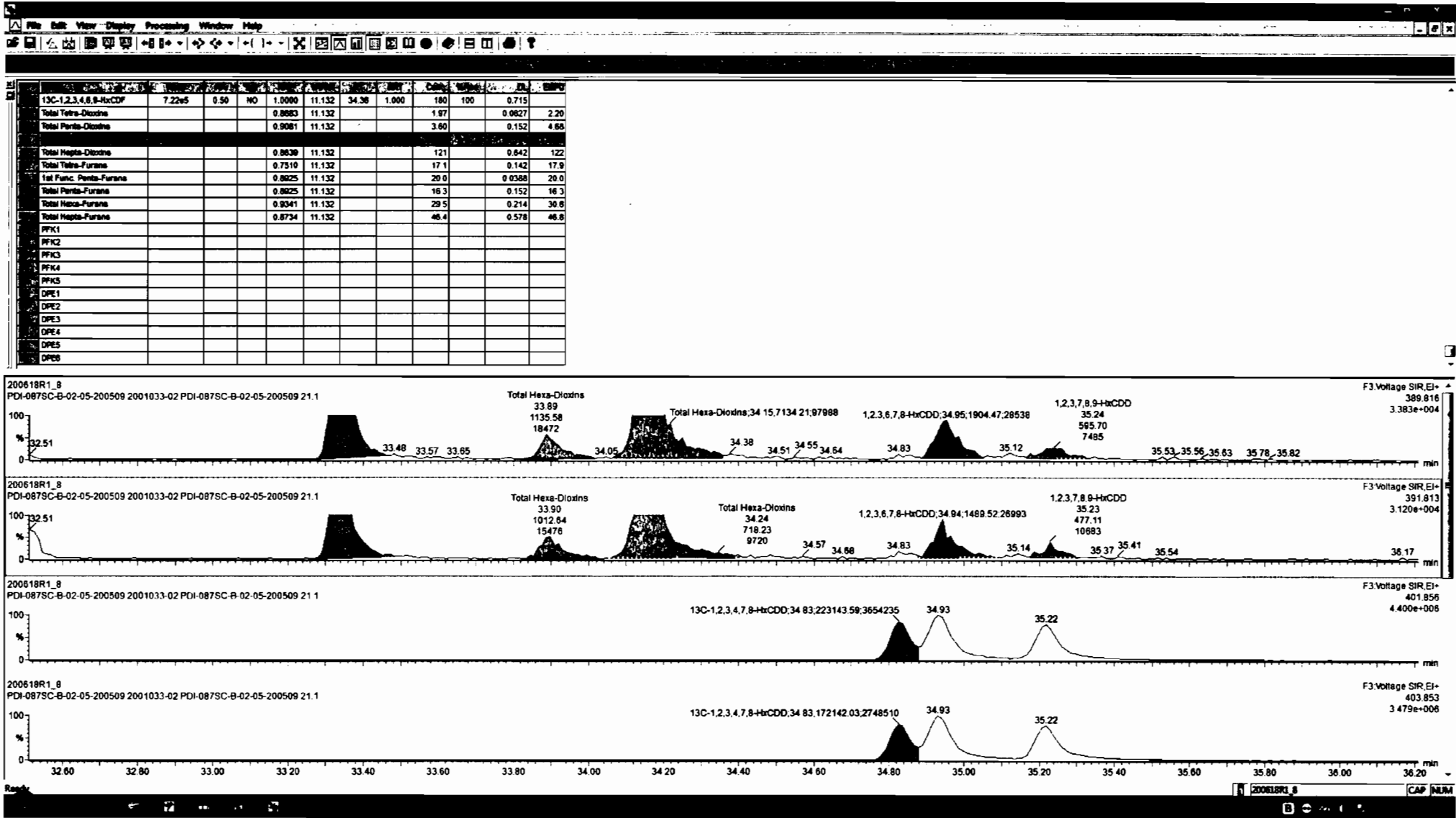
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200618R1\_8





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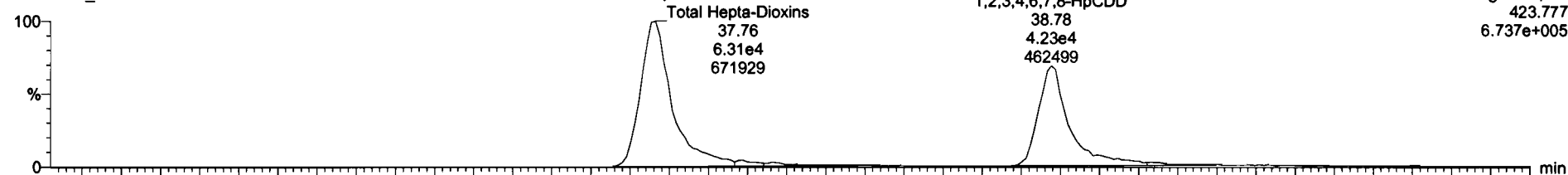
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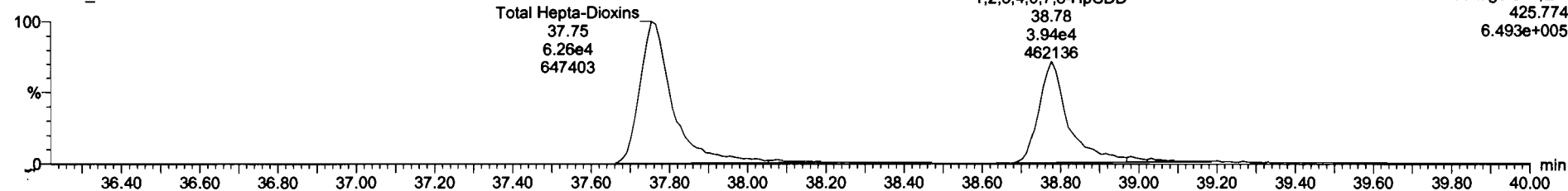
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1,2,3,4,6,7,8-HpCDD

200618R1\_8



200618R1\_8

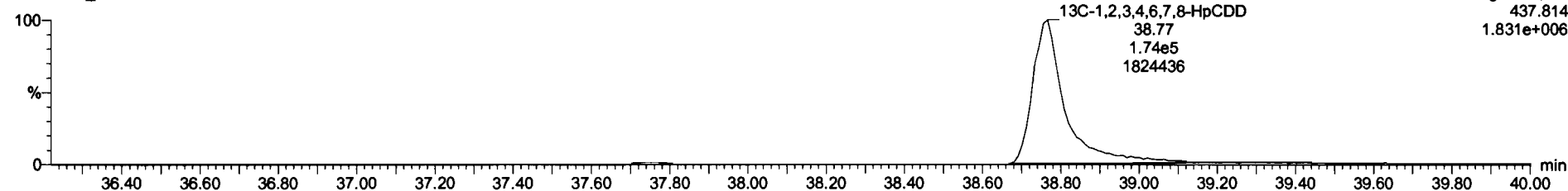


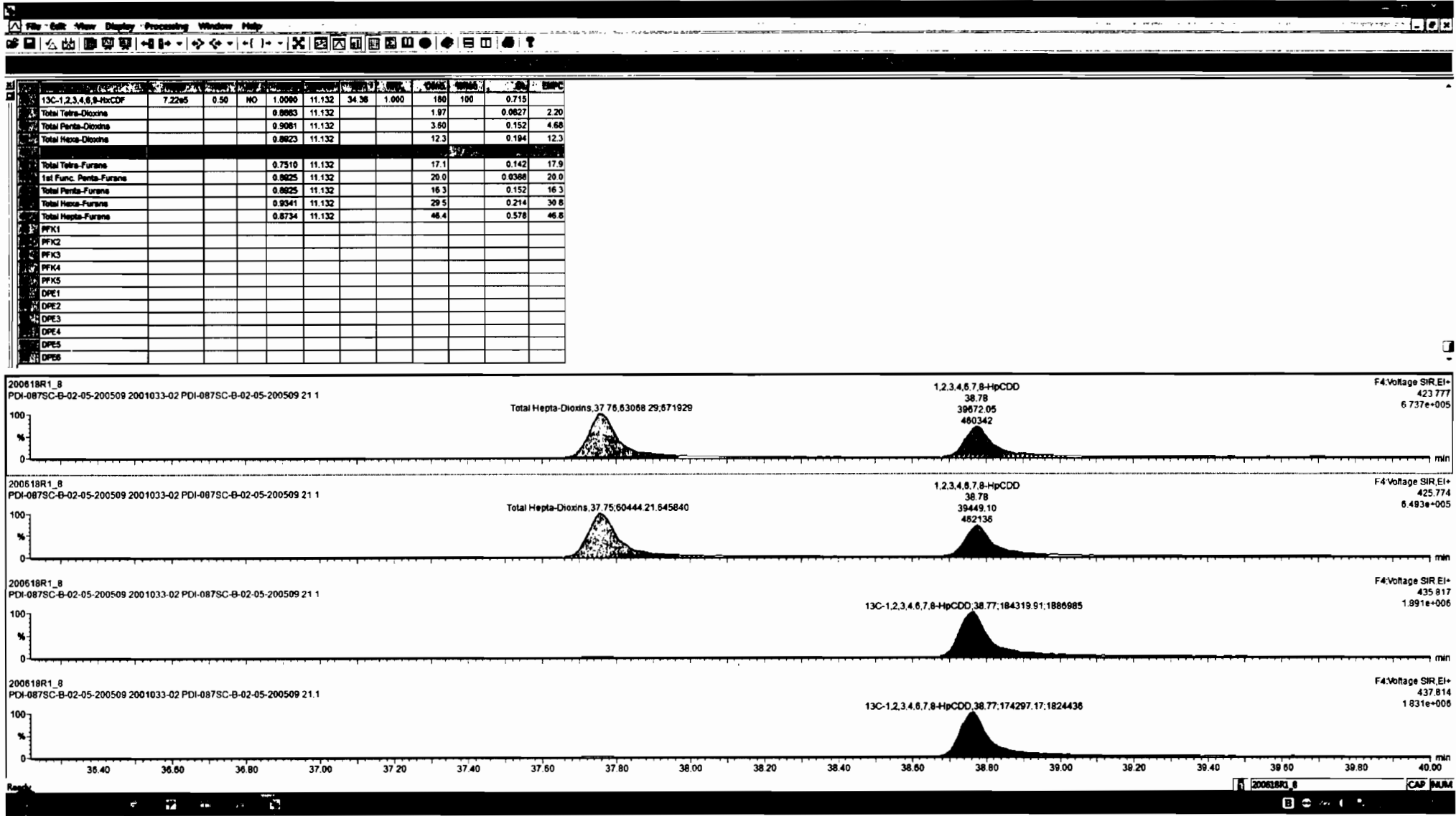
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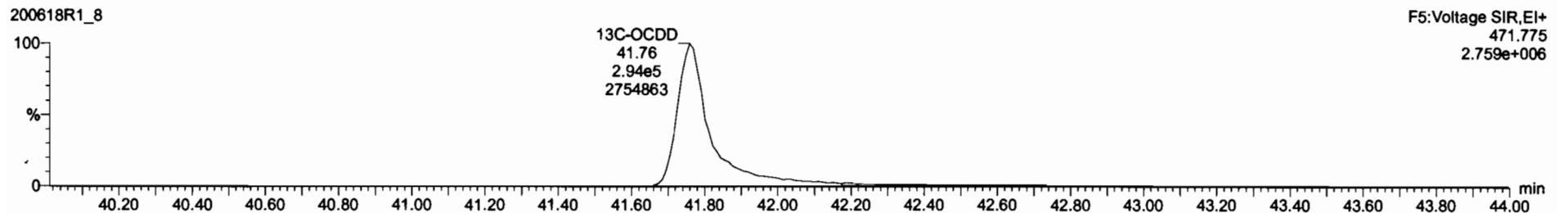
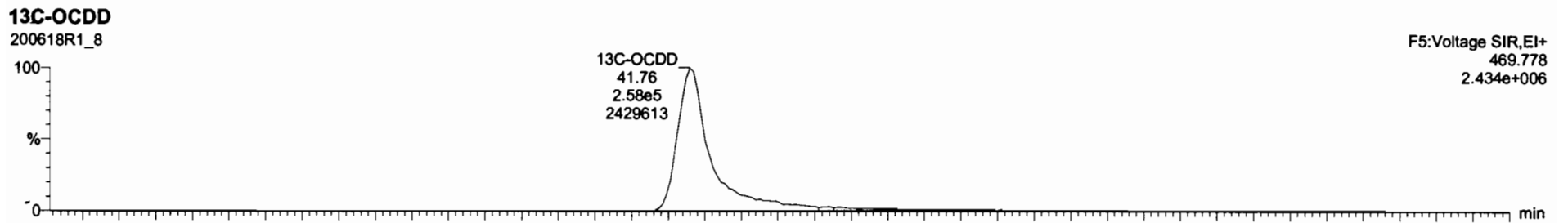
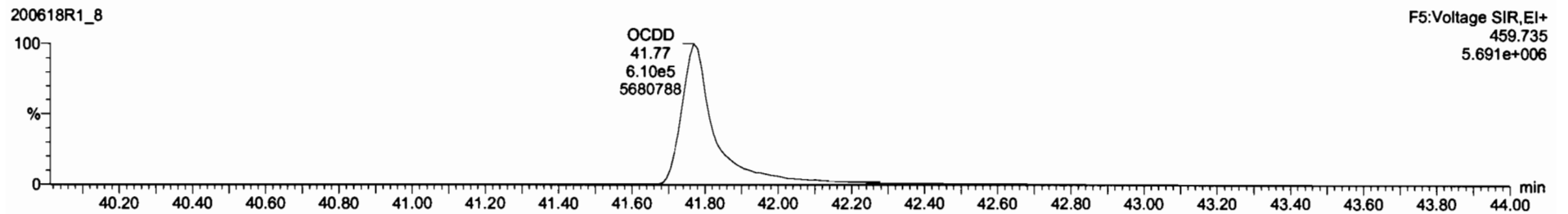
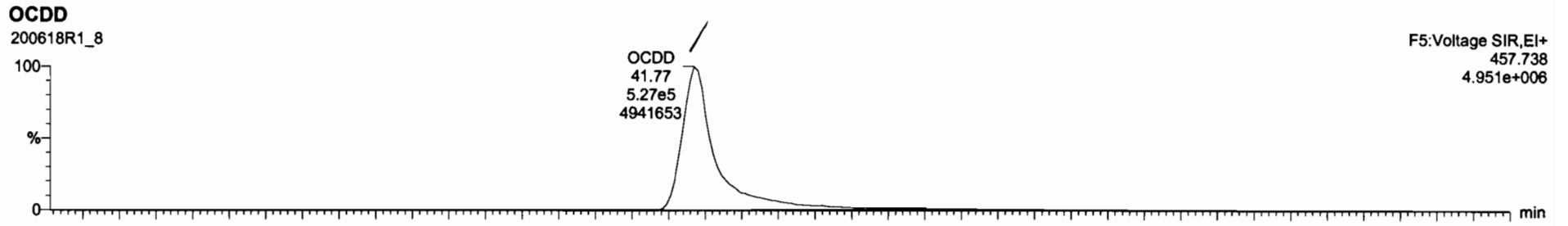




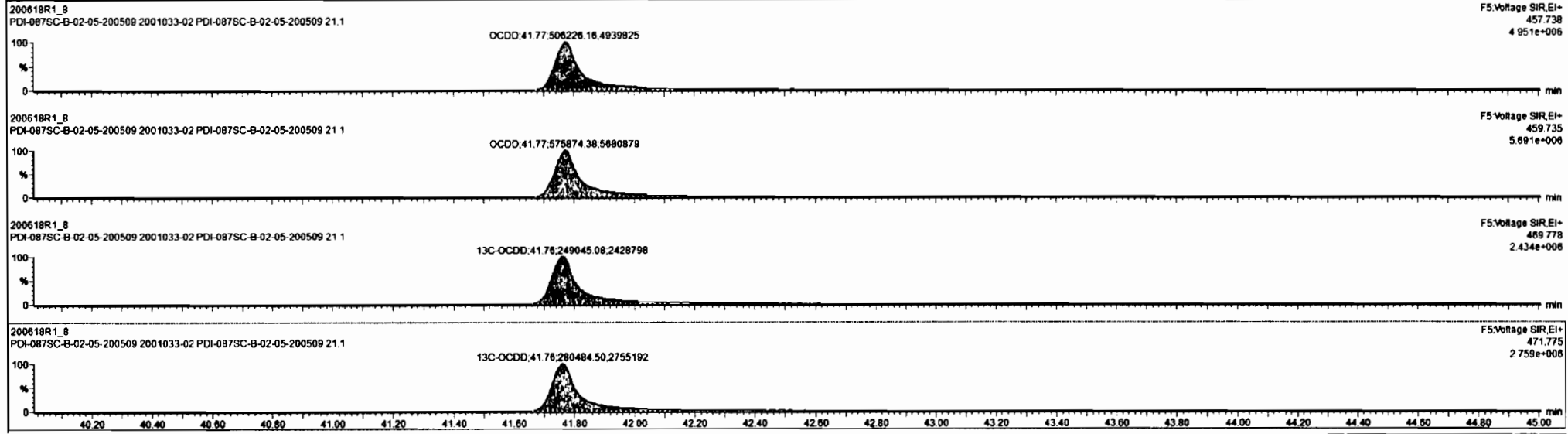
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1,2,3,7,8-PeCDD	9.14e2	0.82	YES	0.9081	11.132	31.47	1.000	0.281		0.152	0.251
1,2,3,4,7,8-HxCDD			NO	1.0334	11.132					0.180	
1,2,3,6,7,8-HxCDD	3.48e3	1.21	NO	0.8923	11.132	34.95	1.001	1.14		0.170	1.14
1,2,3,7,8,9-HxCDD	9.87e2	1.23	NO	0.8889	11.132	35.24	1.001	0.403		0.213	0.403
1,2,3,4,6,7,8-HpCDD	6.18e4	1.07	NO	0.8839	11.132	38.78	1.000	47.4		0.542	47.4
2,3,7,8-TCDF	2.84e3	0.88	NO	0.7510	11.132	25.61	1.001	0.516		0.142	0.516
1,2,3,7,8-PeCDF	2.21e3	1.38	NO	0.8925	11.132	30.18	1.000	0.462		0.154	0.462
2,3,4,7,8-PeCDF	1.48e4	1.87	NO	0.9348	11.132	31.18	1.001	3.05		0.143	3.05
1,2,3,4,7,8-HxCDF	7.59e3	1.10	NO	0.8845	11.132	33.97	1.001	2.81		0.197	2.81
1,2,3,6,7,8-HxCDF	3.44e3	1.10	NO	0.8882	11.132	34.09	1.000	0.957		0.179	0.957
2,3,4,6,7,8-HxCDF	3.89e3	0.89	YES	0.9541	11.132	34.68	1.000	1.27		0.211	1.14
1,2,3,7,8,9-HxCDF	6.41e2	1.31	NO	0.8787	11.132	36.82	1.001	0.357		0.339	0.357
1,2,3,4,6,7,8-HpCDF	3.77e4	1.00	NO	0.8734	11.132	37.38	1.001	19.4		0.498	19.4
1,2,3,4,7,8,9-HpCDF	7.82e2	0.80	YES	1.0128	11.132	38.32	1.000	0.535		0.608	0.498
OCDF	3.80e4	0.91	NO	0.8085	11.132	41.98	1.000	20.8		0.380	20.8
13C-2,3,7,8-TCDD	9.24e5	0.80	NO	1.1983	11.132	28.48	1.825	170	84.5	0.239	
13C-1,2,3,7,8-PeCDD	6.43e5	0.59	NO	0.8490	11.132	31.45	1.218	161	89.8	0.375	
13C-1,2,3,4,7,8-HxCDD	3.95e5	1.38	NO	0.7790	11.132	34.83	1.014	126	70.3	0.827	
13C-1,2,3,6,7,8-HxCDD	6.18e5	1.19	NO	1.0187	11.132	34.83	1.017	151	84.0	0.481	

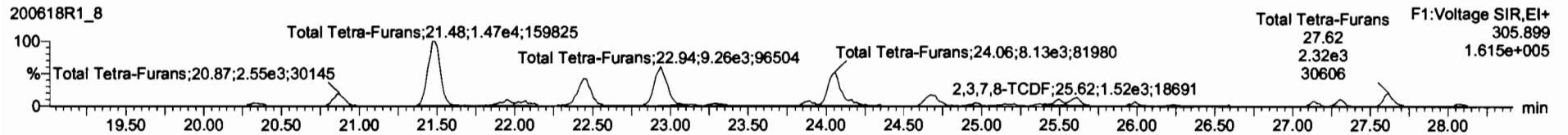
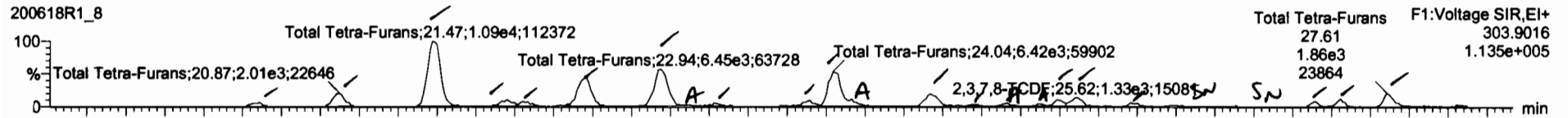


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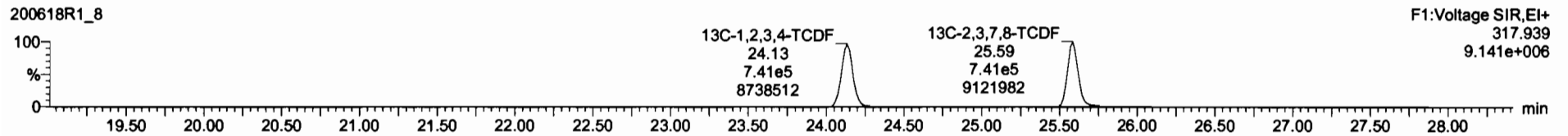
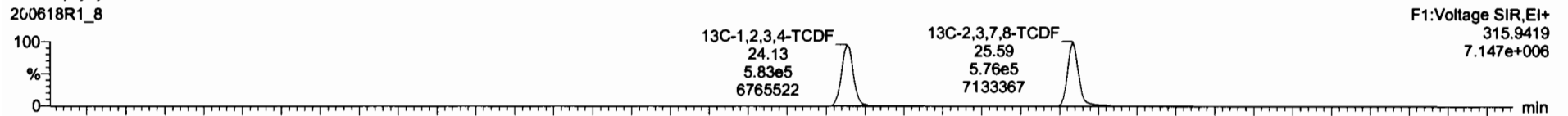
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Name: 200618R1\_8, Date: 18-Jun-2020, Time: 18:30:37, ID: 2001033-02 PDI-087SC-B-02-05-200509 21.1, Description: PDI-087SC-B-02-05-200509

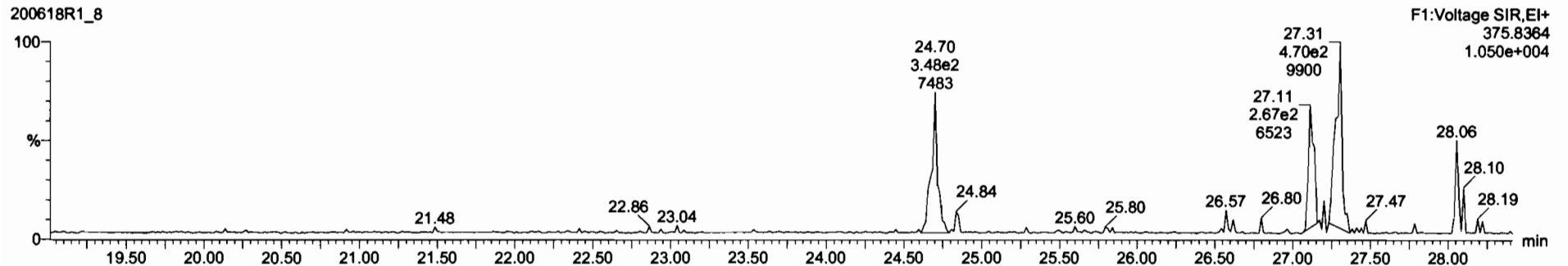
**2,3,7,8-TCDF**



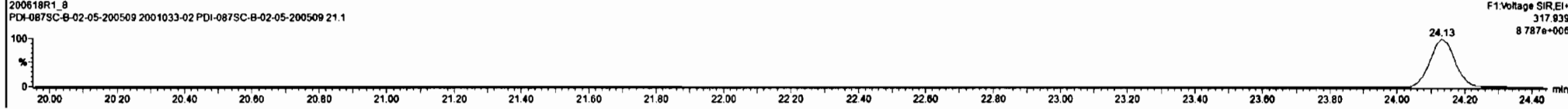
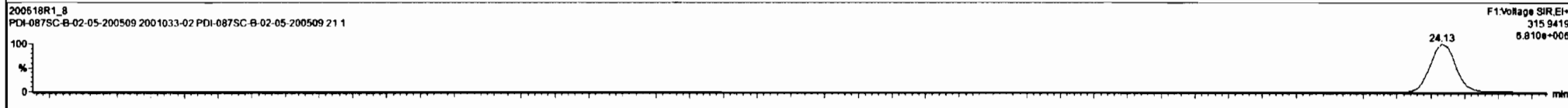
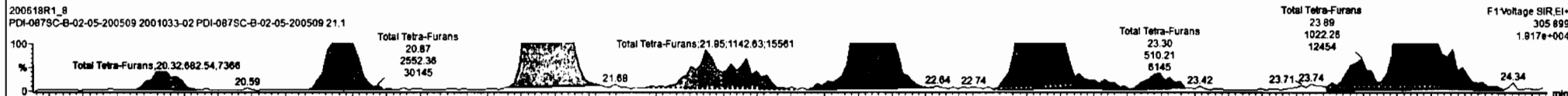
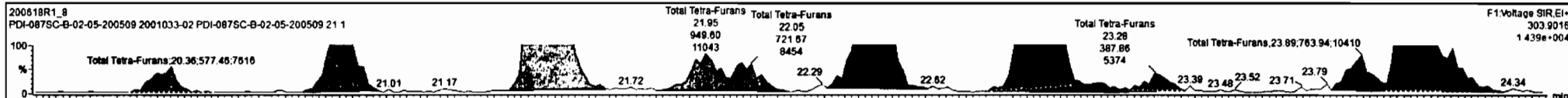
**<sup>13</sup>C-2,3,7,8-TCDF**



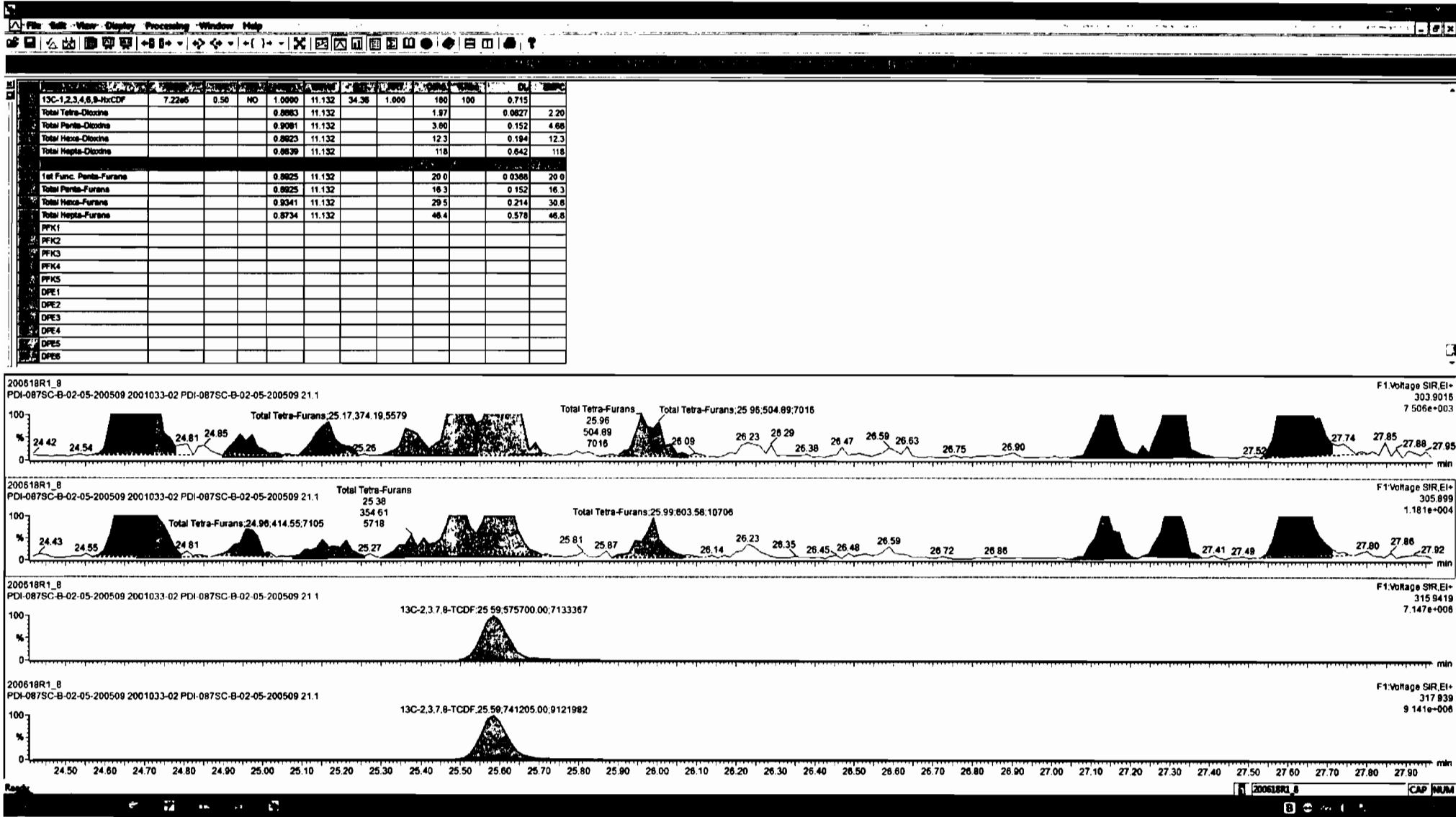
**DPE1**



Sample	Concentration	Unit	Method	Result	Limit	%Pass	DL	EMPC			
13C-1,2,3,4,6,8-HxCDF	7.22e5	0.50	NO	1.0090	11.132	34.38	1.000	180	100	0.715	
Total Tetra-Dioxine				0.8983	11.132			1.97		0.0627	2.20
Total Penta-Dioxine				0.9081	11.132			3.60		0.152	4.68
Total Hexa-Dioxine				0.8623	11.132			12.3		0.194	12.3
Total Hepta-Dioxine				0.8639	11.132			118		0.842	118
1st Func. Penta-Furans				0.8625	11.132			20.0		0.0388	20.0
Total Penta-Furans				0.8625	11.132			16.3		0.152	16.3
Total Hexa-Furans				0.9341	11.132			29.5		0.214	30.8
Total Hepta-Furans				0.8734	11.132			46.4		0.578	46.8
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
DPE6											







Dataset: Untitled

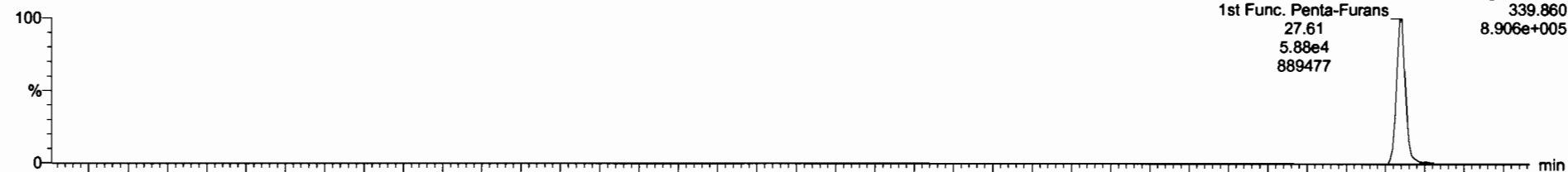
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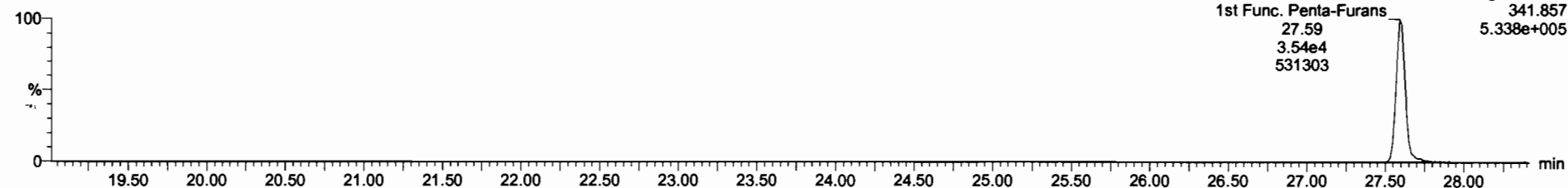
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1st Func. Penta-Furans

200618R1\_8

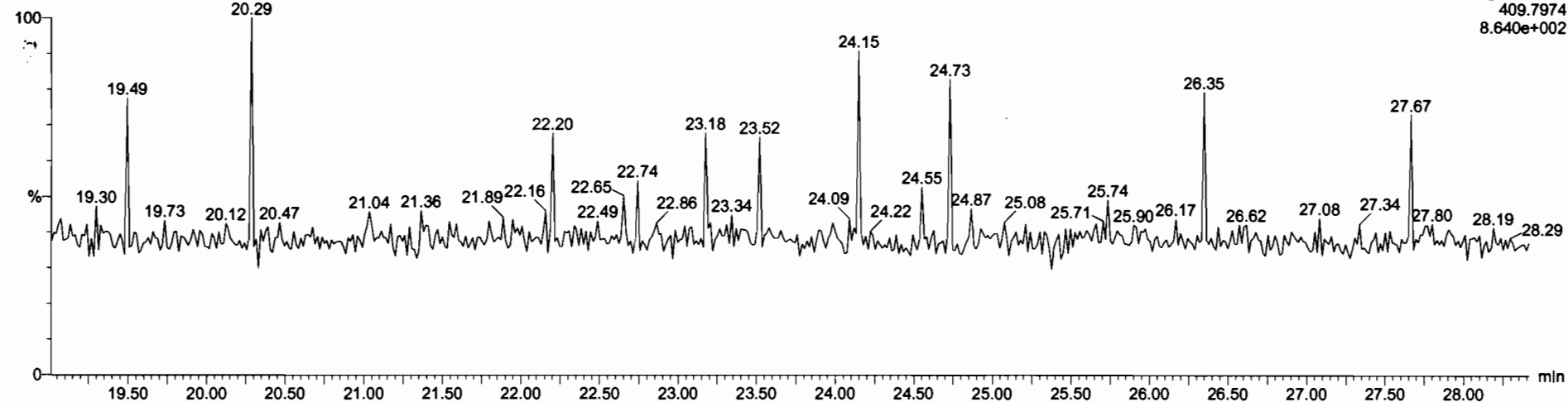


200618R1\_8



DPE6

200618R1\_8

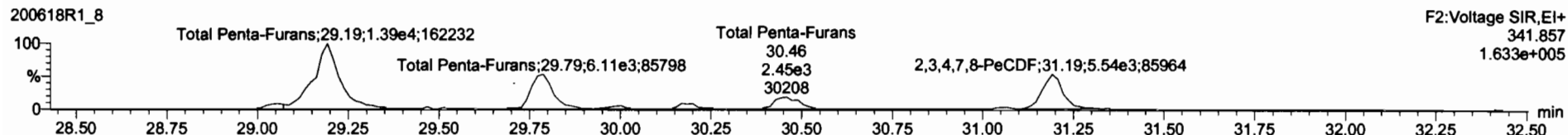
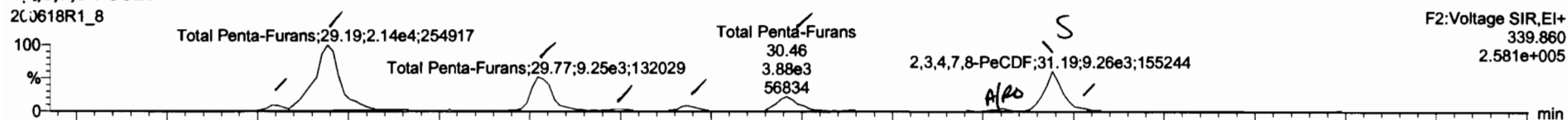


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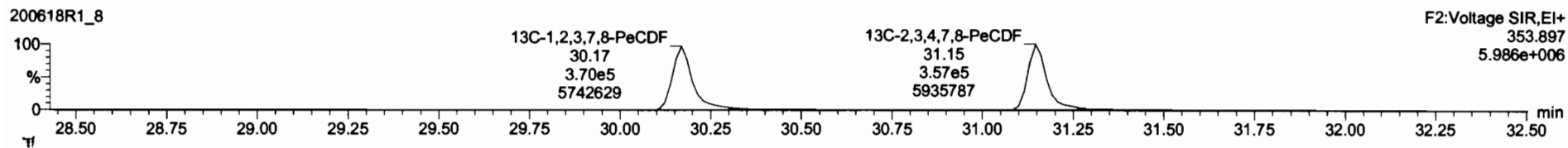
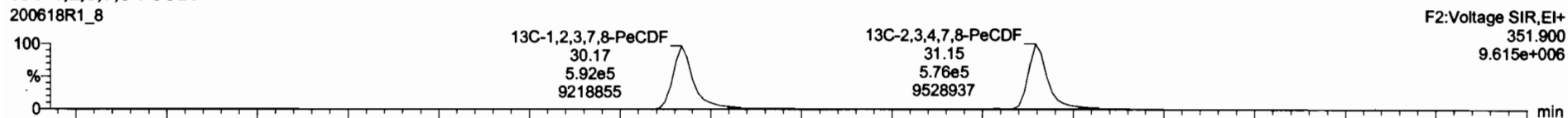
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1\_8, Date: 18-Jun-2020, Time: 18:30:37, ID: 2001033-02 PDI-087SC-B-02-05-200509 21.1, Description: PDI-087SC-B-02-05-200509

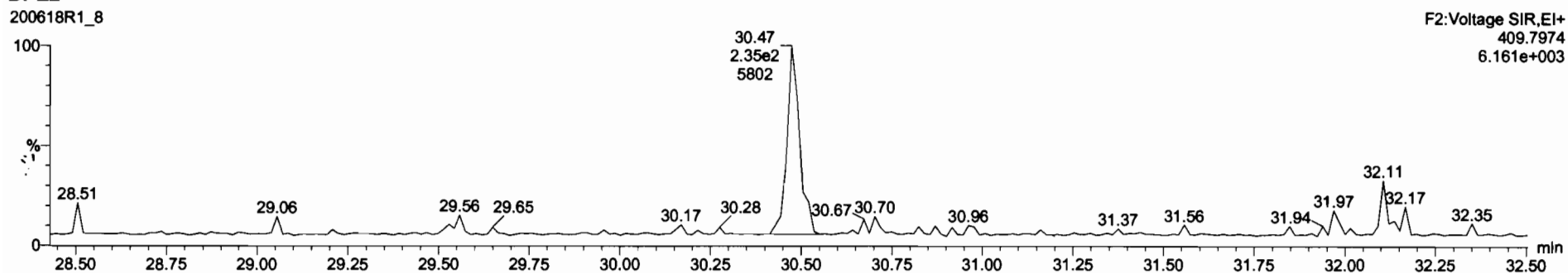
**1,2,3,7,8-PeCDF**



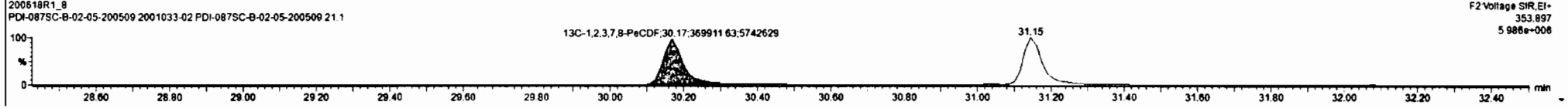
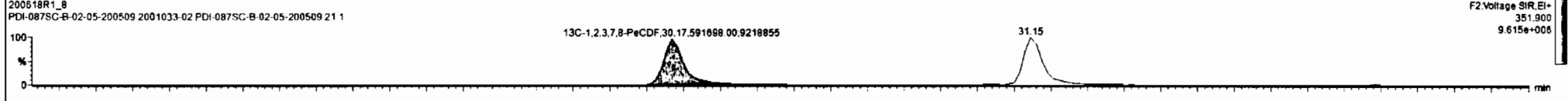
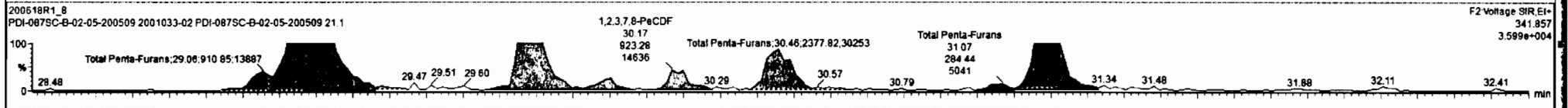
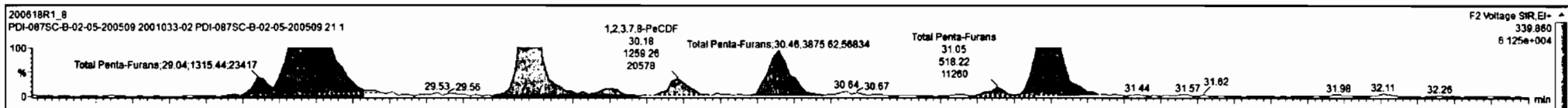
**13C-1,2,3,7,8-PeCDF**



**DPE2**



Compound	Concentration	Area	Height	Width	Retention Time	Response	Integration	Integration	Integration	Integration	Integration	Integration
13C-1,2,3,4,6,8-HxCDF	7.22e5	NO	1.0000	11.132	34.38	1.000	180	100	0.715			
Total Tetra-Dioxine			0.8883	11.132			1.97		0.8827	2.20		
Total Penta-Dioxine			0.9081	11.132			3.60		0.152	4.68		
Total Hexa-Dioxine			0.8823	11.132			12.3		0.194	12.3		
Total Hepta-Dioxine			0.8639	11.132			118		0.842	118		
Total Tetra-Furans			0.7510	11.132			18.4		0.142	18.4		
1st Func. Penta-Furans			0.8825	11.132			20.0		0.8388	20.0		
Total Hexa-Furans			0.8341	11.132			29.5		0.214	30.8		
Total Hepta-Furans			0.8734	11.132			46.4		0.578	46.8		
PFK1												
PFK2												
PFK3												
PFK4												
PFK5												
DPE1												
DPE2												
DPE3												
DPE4												
DPE5												
DPE6												

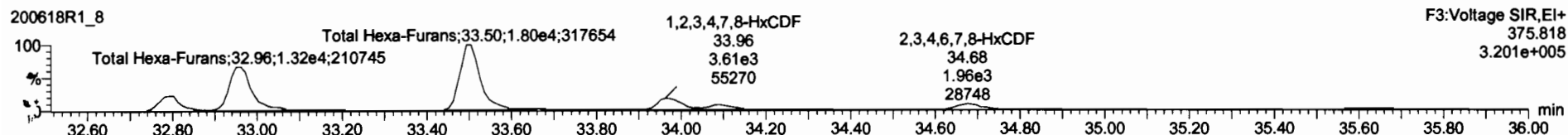
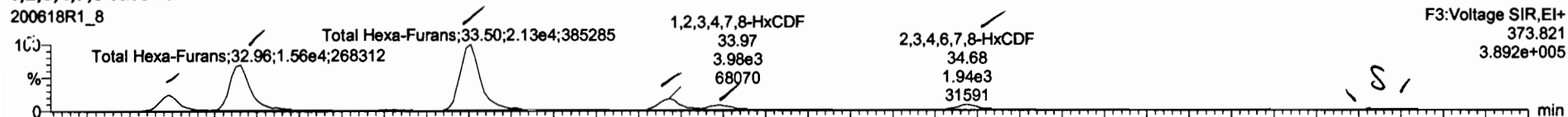


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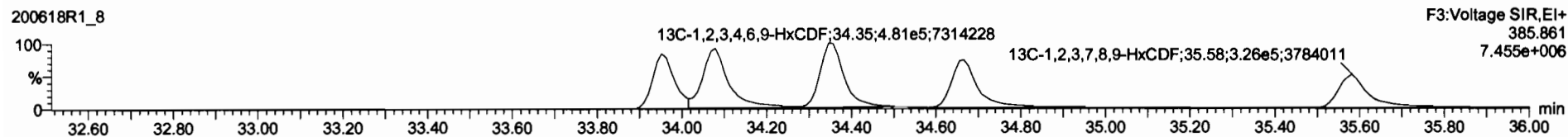
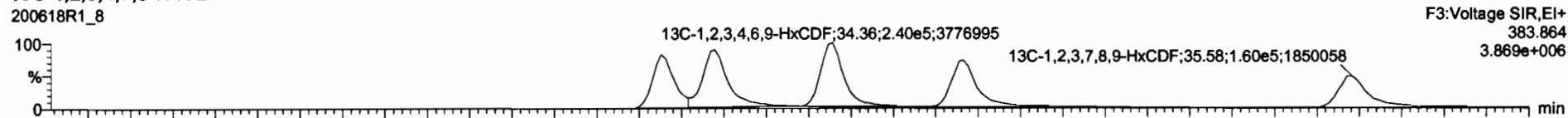
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1\_8, Date: 18-Jun-2020, Time: 18:30:37, ID: 2001033-02 PDI-087SC-B-02-05-200509 21.1, Description: PDI-087SC-B-02-05-200509

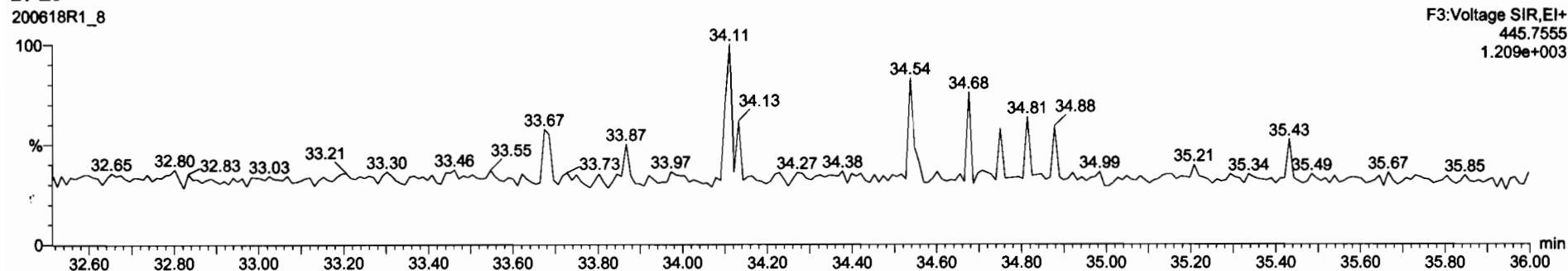
**1,2,3,4,7,8-HxCDF**



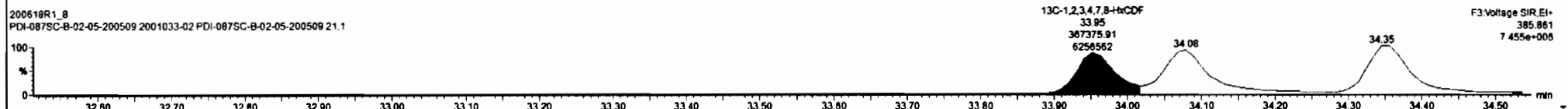
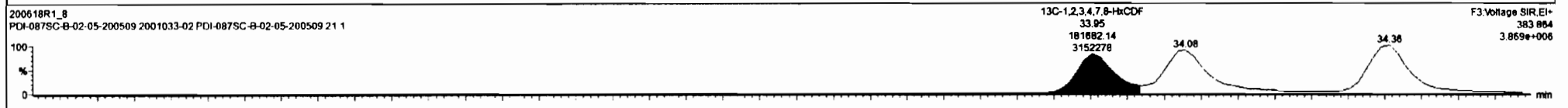
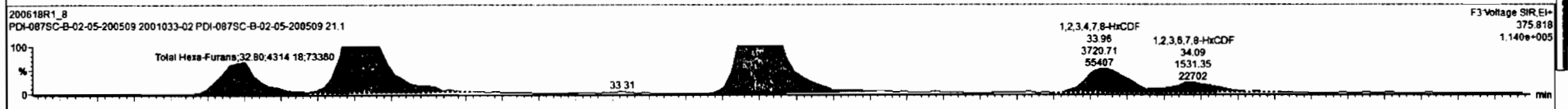
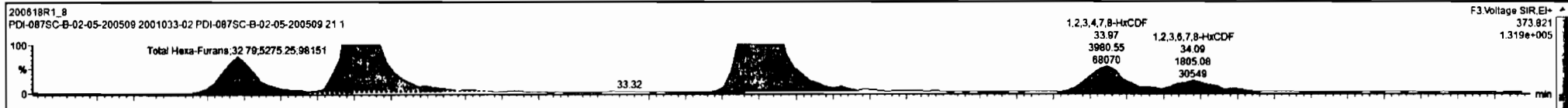
**13C-1,2,3,4,7,8-HxCDF**



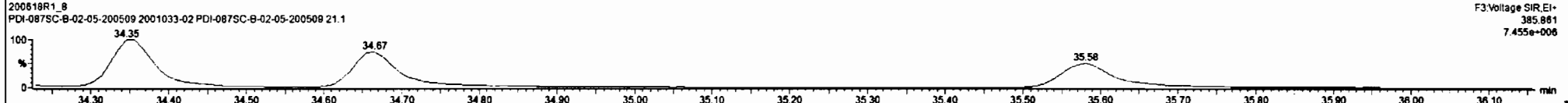
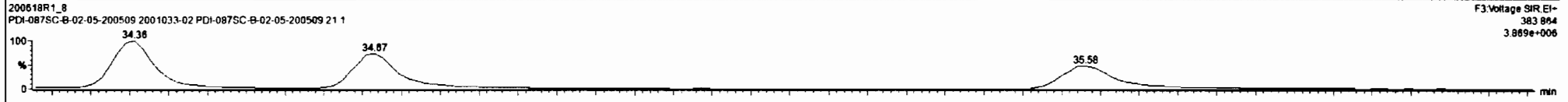
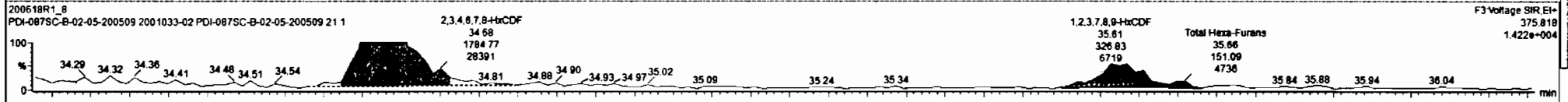
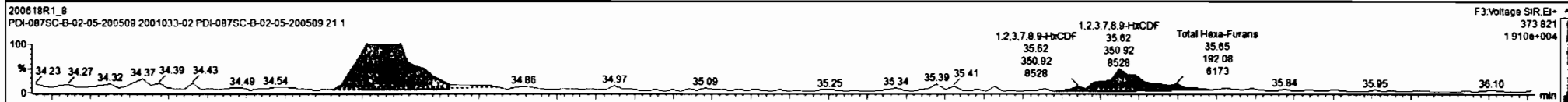
**DPE3**



NAME	CONCENTRATION	TIME	AREA	HEIGHT	WIDTH	SYMM	AREA	PERCENT	CL	EMPC
13C-1,2,3,4,6,8-HxCDF	7.22e5	0.30	NO	1.0060	11.132	34.30	1.000	180	100	0.715
Total Tetra-Dioxins				0.8663	11.132			1.87		0.9627
Total Penta-Dioxins				0.9081	11.132			3.60		0.152
Total Hexa-Dioxins				0.8823	11.132			12.3		0.184
Total Hepta-Dioxins				0.8839	11.132			118		0.842
Total Tetra-Furans				0.7510	11.132			18.4		0.142
1st Func. Penta-Furans				0.8825	11.132			20.0		0.0388
Total Penta-Furans				0.8825	11.132			16.5		0.152
Total Hepta-Furans				0.8734	11.132			46.4		0.578
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



NAME	TIME	CONC	UNIT	REMARKS
13C-1,2,3,4,6,8-HxCDF	7.22e5	0.50	NO	1.0000 11.132 34.38 1.000 180 100 0.715
Total Tetra-Dioxine		0.8863	11.132	1.97 0.0827 2.20
Total Penta-Dioxine		0.9081	11.132	3.80 0.152 4.68
Total Hexa-Dioxine		0.8823	11.132	12.3 0.194 12.3
Total Hepta-Dioxine		0.8639	11.132	118 0.842 118
Total Tetra-Furans		0.7510	11.132	18.4 0.142 18.4
Fast Func. Penta-Furans		0.8825	11.132	20.0 0.0368 20.0
Total Penta-Furans		0.8825	11.132	16.5 0.152 16.6
Total Hepta-Furans		0.8734	11.132	46.4 0.578 46.8
PFK1				
PFK2				
PFK3				
PFK4				
PFK5				
DPE1				
DPE2				
DPE3				
DPE4				
DPE5				
DPE6				

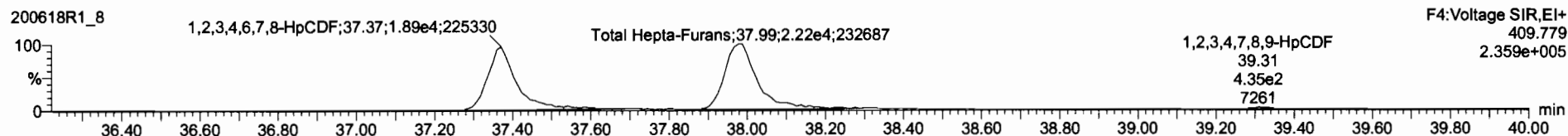
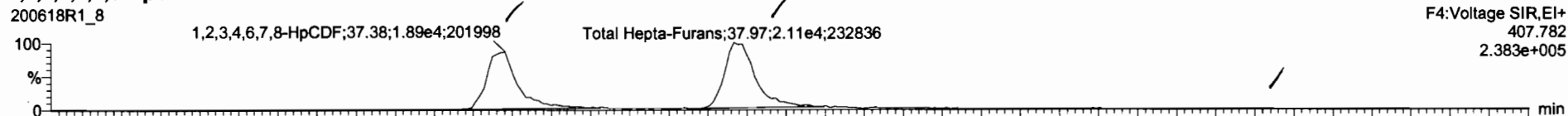


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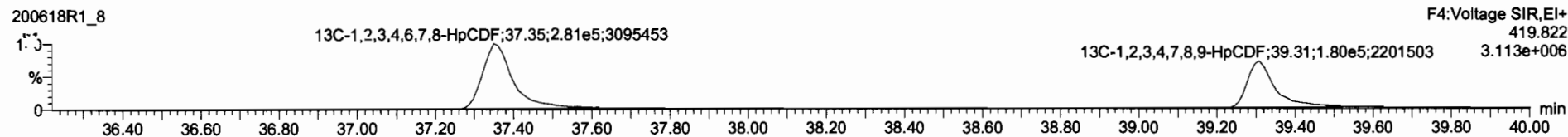
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1\_8, Date: 18-Jun-2020, Time: 18:30:37, ID: 2001033-02 PDI-087SC-B-02-05-200509 21.1, Description: PDI-087SC-B-02-05-200509

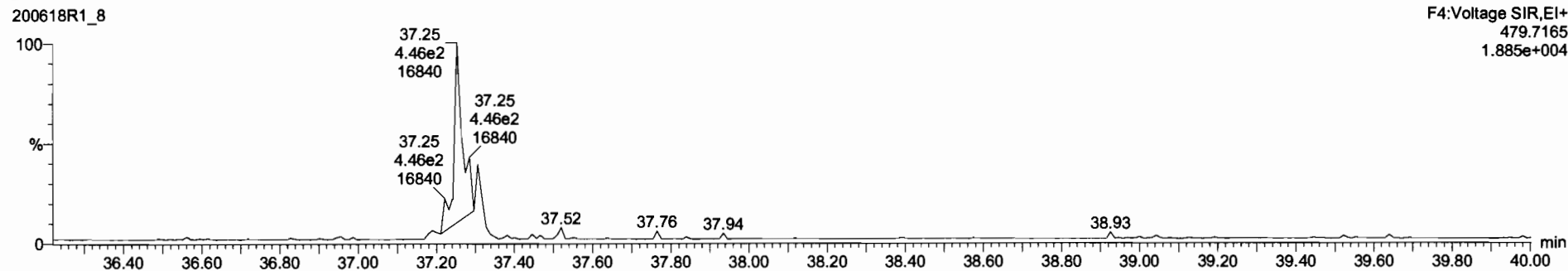
**1,2,3,4,6,7,8-HpCDF**



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

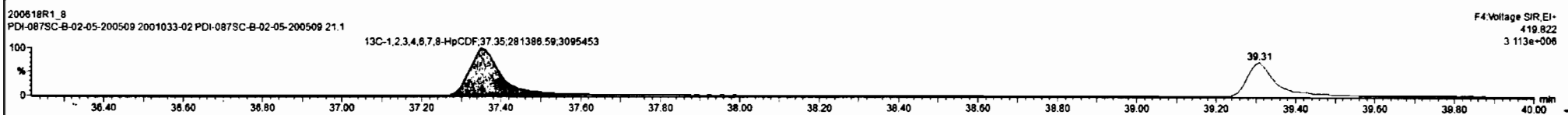
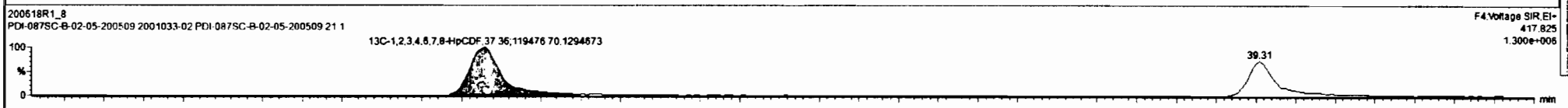
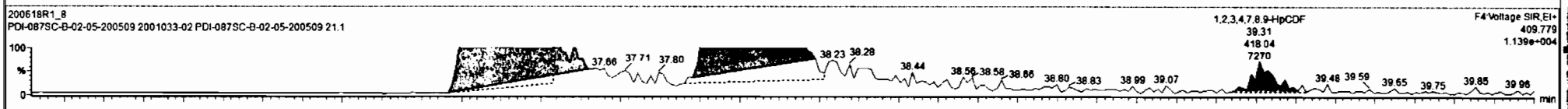
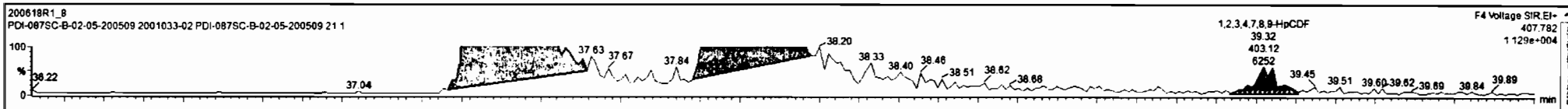


**DPE4**





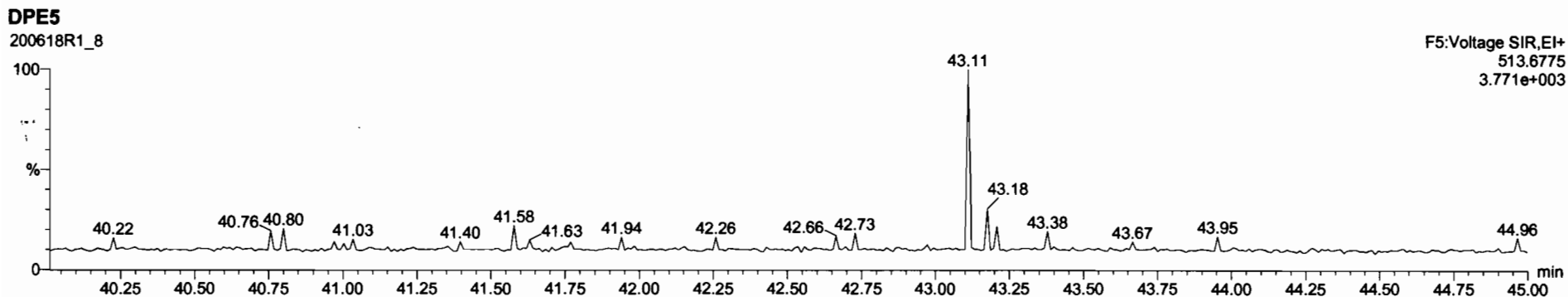
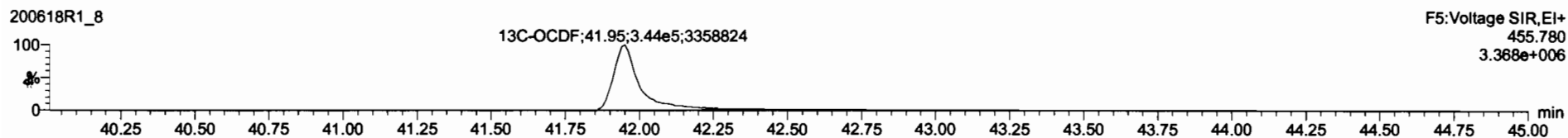
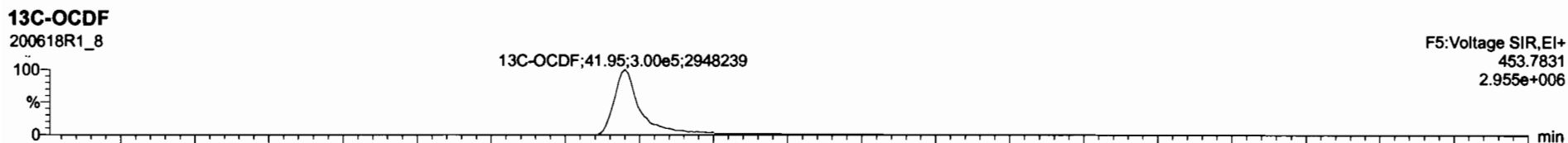
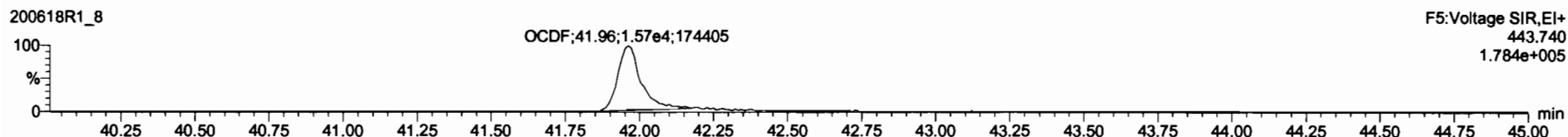
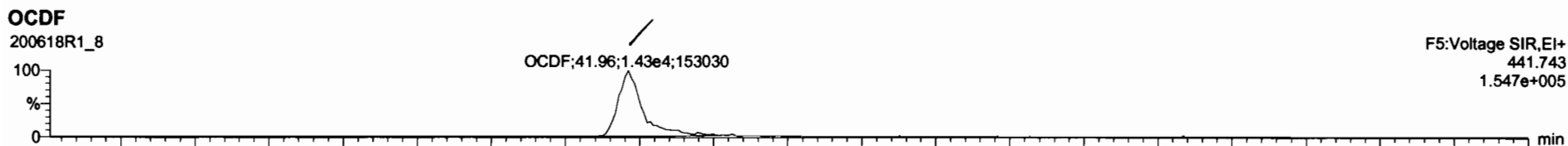
Compound	Area	Height	Width	Retention	Concentration	Response	Integration
13C-1,2,3,4,6,8-HpCDF	7.22e5	0.50	NO	1.0000	11.132	34.36	1.000
Total Tetra-Dioxins				0.8883	11.132		1.97
Total Penta-Dioxins				0.9061	11.132		3.60
Total Hexa-Dioxins				0.8823	11.132		12.3
Total Hepta-Dioxins				0.8839	11.132		118
Total Tetra-Furans				0.7510	11.132		18.4
1st Func. Penta-Furans				0.8825	11.132		20.0
Total Penta-Furans				0.8825	11.132		16.5
Total Hexa-Furans				0.9341	11.132		30.6
PFK1							
PFK2							
PFK3							
PFK4							
PFK5							
DPE1							
DPE2							
DPE3							
DPE4							
DPE5							
DPE6							



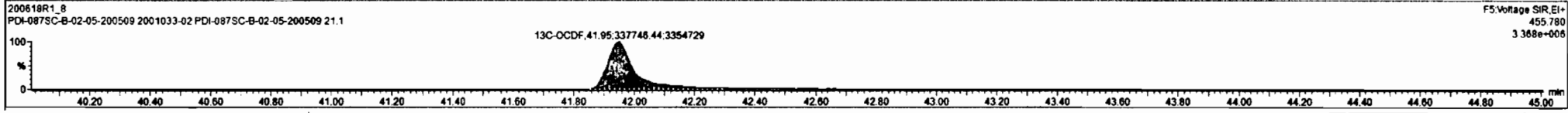
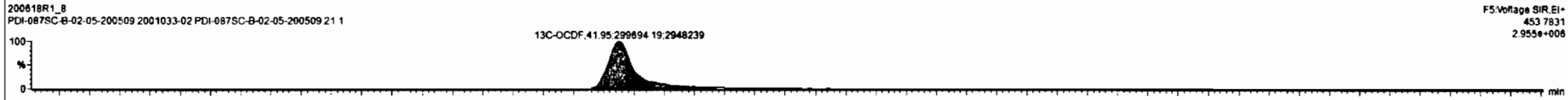
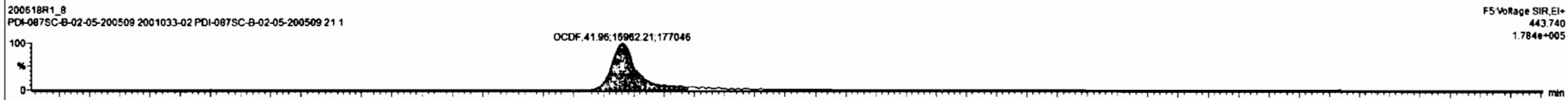
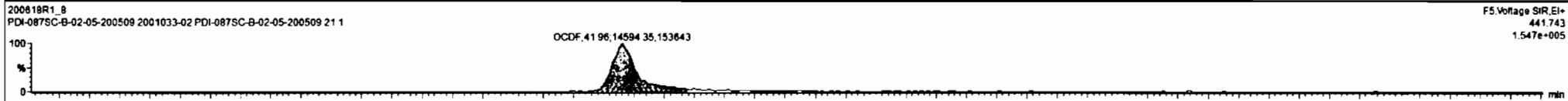
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Last Altered: Friday, June 19, 2020 07:32:51 Pacific Daylight Time  
Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1\_8, Date: 18-Jun-2020, Time: 18:30:37, ID: 2001033-02 PDI-087SC-B-02-05-200509 21.1, Description: PDI-087SC-B-02-05-200509



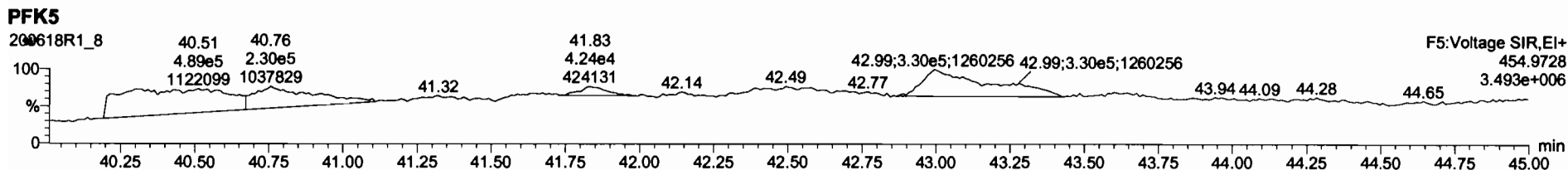
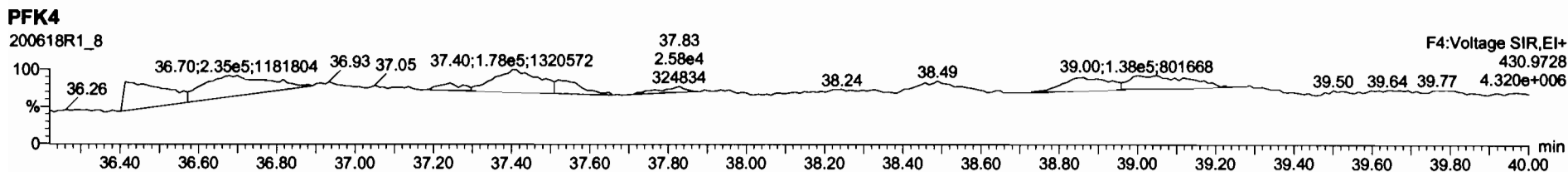
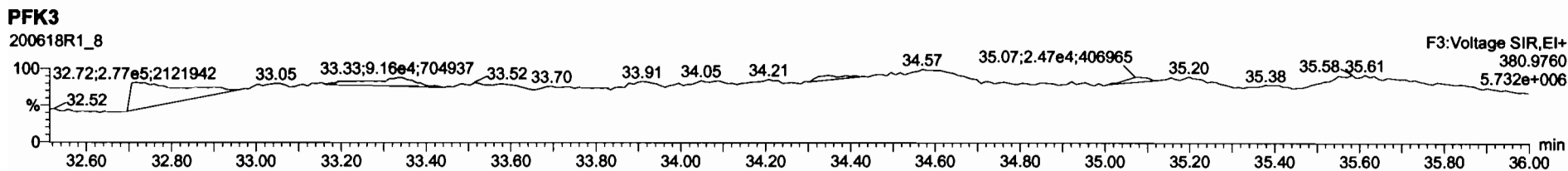
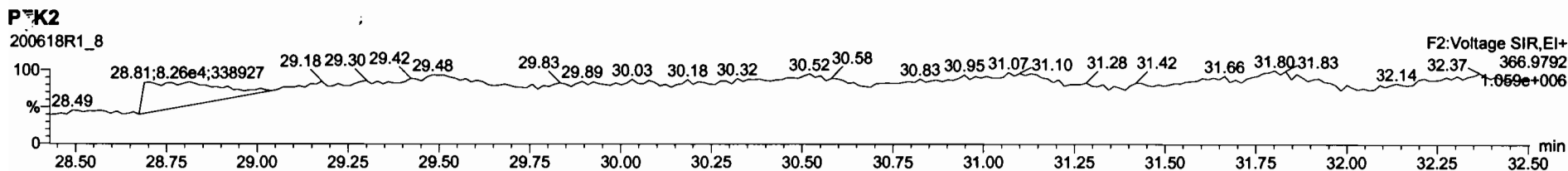
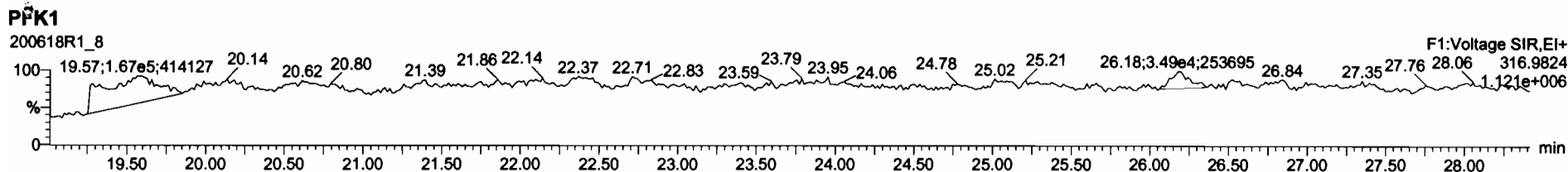
Compound	Concentration	Response	Method	Retention	Area	Height	Width	Height	Area	Height	Area
2,3,7,8-TCDD	1.01e3	0.39	YES	0.8953	11.132	28.59	1.001	0.221		0.9827	0.142
1,2,3,7,8-PeCDD	9.14e2	0.82	YES	0.9081	11.132	31.47	1.000	0.281		0.152	0.251
1,2,3,4,7,8-HxCDD			NO	1.0334	11.132					0.180	
1,2,3,6,7,8-HxCDD	3.48e3	1.21	NO	0.8623	11.132	34.85	1.001	1.14		0.170	1.14
1,2,3,7,8,9-HxCDD	9.87e2	1.23	NO	0.8899	11.132	35.24	1.001	0.403		0.213	0.403
1,2,3,4,6,7,8-HpCDD	8.18e4	1.07	NO	0.8639	11.132	38.78	1.000	47.4		0.642	47.4
OCDD	1.08e6	0.88	NO	0.9138	11.132	41.77	1.000	804		1.90	804
2,3,7,8-TCDF	2.84e3	0.88	NO	0.7510	11.132	25.61	1.001	0.516		0.142	0.516
1,2,3,7,8-PeCDF	2.21e3	1.39	NO	0.8825	11.132	30.18	1.000	0.462		0.154	0.462
2,3,4,7,8-PeCDF	1.49e4	1.67	NO	0.9348	11.132	31.19	1.001	3.05		0.143	3.05
1,2,3,4,7,8-HxCDF	7.58e3	1.10	NO	0.8845	11.132	33.97	1.001	2.81		0.197	2.81
1,2,3,6,7,8-HxCDF	3.44e3	1.10	NO	0.8882	11.132	34.09	1.000	0.957		0.179	0.957
2,3,4,6,7,8-HxCDF	3.86e3	0.99	YES	0.9341	11.132	34.88	1.000	1.27		0.211	1.14
1,2,3,7,8,9-HxCDF	8.41e2	1.31	NO	0.8797	11.132	36.62	1.001	0.357		0.339	0.357
1,2,3,4,6,7,8-HpCDF	3.77e4	1.00	NO	0.8734	11.132	37.38	1.001	19.4		0.498	19.4
1,2,3,4,7,8,9-HpCDF	7.80e2	0.80	YES	1.0128	11.132	39.32	1.000	0.535		0.606	0.498
13C-2,3,7,8-TCDD	9.24e5	0.80	NO	1.1563	11.132	28.48	1.025	170	94.5	0.239	
13C-1,2,3,7,8-PeCDD	6.43e5	0.59	NO	0.8490	11.132	31.45	1.218	161	89.6	0.375	
13C-1,2,3,4,7,8-HxCDD	3.95e5	1.30	NO	0.7790	11.132	34.83	1.014	126	70.3	0.827	
13C-1,2,3,6,7,8-HxCDD	6.18e5	1.19	NO	1.0167	11.132	34.93	1.017	151	84.0	0.481	



Dataset: Untitled

Last Altered: Friday, June 19, 2020 07:32:51 Pacific Daylight Time  
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Name: 200618R1\_8, Date: 18-Jun-2020, Time: 18:30:37, ID: 2001033-02 PDI-087SC-B-02-05-200509 21.1, Description: PDI-087SC-B-02-05-200509



Dataset: U:\VG12.PRO\Results\200618R1\200618R1-9.qld

Last Altered: Friday, June 19, 2020 10:00:52 Pacific Daylight Time

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*GPB 06/19/2020*

*C7 07/10/2020*

Method: Untitled 01 Jun 2020 11:54:45

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

Name: 200618R1\_9, Date: 18-Jun-2020, Time: 19:16:49, ID: 2001033-03 PDI-087SC-B-05-07-200509 19.38, Description: PDI-087SC-B-05-07-200509

	Comp	RA	n/y	RRF	w/vol	Pre	RRT						
1	2,3,7,8-TCDD		NO	0.888	10.796	26.486		1.001					0.0904
2	1,2,3,7,8-PeCDD		NO	0.908	10.796	31.457		1.001					0.0884
3	1,2,3,4,7,8-HxCDD		NO	1.03	10.796	34.824		1.000					0.126
4	1,2,3,6,7,8-HxCDD	4.54e2	1.05	YES	0.892	10.796	34.921 34.94	1.000	1.001	0.14463			0.122 0.134
5	1,2,3,7,8,9-HxCDD		NO	0.887	10.796	35.209		1.000					0.151
6	1,2,3,4,6,7,8-HpCDD	4.58e2	1.02	NO	0.864	10.796	38.756 38.76	1.000	1.000	0.27230			0.0902 0.272
7	OCDD	1.09e3	0.77	NO	0.914	10.796	41.727 41.75	1.000	1.001	0.84472			0.179 0.845
8	2,3,7,8-TCDF	5.57e2	0.66	NO	0.751	10.796	25.596 25.62	1.001	1.002	0.11118			0.0802 0.111
9	1,2,3,7,8-PeCDF		NO	0.893	10.796	30.175		1.001					0.106
10	2,3,4,7,8-PeCDF	4.36e3	1.61	NO	0.935	10.796	31.161 31.18	1.001	1.001	0.91490			0.104 0.915
11	1,2,3,4,7,8-HxCDF	6.87e2	1.25	NO	0.884	10.796	33.941 33.95	1.000	1.000	0.25614			0.114 0.256
12	1,2,3,6,7,8-HxCDF	5.26e2	0.97	YES	0.889	10.796	34.068 34.06	1.000	1.000	0.14609			0.0989 0.130
13	2,3,4,6,7,8-HxCDF	1.04e3	1.18	NO	0.934	10.796	34.690 34.67	1.001	1.000	0.33428			0.112 0.334
14	1,2,3,7,8,9-HxCDF		NO	0.871	10.796	35.560		1.000					0.175
15	1,2,3,4,6,7,8-HpCDF	7.16e2	0.98	NO	0.873	10.796	37.376 37.38	1.001	1.001	0.35850			0.135 0.358
16	1,2,3,4,7,8,9-HpCDF		NO	1.01	10.796	39.288		1.000					0.177
17	OCDF		NO	0.806	10.796	41.918		1.000					0.121
18	13C-2,3,7,8-TCDD	9.34e5	0.81	NO	1.16	10.796	26.491 26.45	1.026	1.025	178.98	96.6		0.214
19	13C-1,2,3,7,8-PeCDD	6.36e5	0.59	NO	0.849	10.796	31.674 31.43	1.227	1.218	166.09	89.7		0.482
20	13C-1,2,3,4,7,8-HxCDD	4.15e5	1.30	NO	0.779	10.796	34.819 34.81	1.014	1.014	133.46	72.0		0.729
21	13C-1,2,3,6,7,8-HxCDD	6.51e5	1.29	NO	1.02	10.796	34.932 34.92	1.017	1.017	160.43	86.6		0.558
22	13C-1,2,3,7,8,9-HxCDD	5.56e5	1.25	NO	0.903	10.796	35.204 35.20	1.025	1.025	154.13	83.2		0.629
23	13C-1,2,3,4,6,7,8-HpCDD	3.60e5	1.04	NO	0.689	10.796	38.726 38.74	1.128	1.128	130.96	70.7		0.562
24	13C-OCDD	5.26e5	0.87	NO	0.652	10.796	41.748 41.73	1.216	1.215	201.81	54.5		0.932
25	13C-2,3,7,8-TCDF	1.24e6	0.79	NO	1.06	10.796	25.534 25.57	0.989	0.991	163.60	88.3		0.285
26	13C-1,2,3,7,8-PeCDF	9.67e5	1.62	NO	0.838	10.796	30.058 30.15	1.165	1.168	161.71	87.3		0.583
27	13C-2,3,4,7,8-PeCDF	9.44e5	1.67	NO	0.817	10.796	31.011 31.13	1.202	1.206	162.11	87.5		0.599
28	13C-1,2,3,4,7,8-HxCDF	5.62e5	0.50	NO	1.01	10.796	33.950 33.94	0.989	0.989	139.64	75.4		0.985
29	13C-1,2,3,6,7,8-HxCDF	7.51e5	0.50	NO	1.17	10.796	34.074 34.06	0.992	0.992	161.09	87.0		0.850
30	13C-2,3,4,6,7,8-HxCDF	6.20e5	0.50	NO	1.02	10.796	34.647 34.65	1.009	1.009	151.83	82.0		0.971
31	13C-1,2,3,7,8,9-HxCDF	5.03e5	0.48	NO	0.860	10.796	35.547 35.56	1.035	1.036	146.49	79.1		1.15

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Name: 200618R1\_9, Date: 18-Jun-2020, Time: 19:16:49, ID: 2001033-03 PDI-087SC-B-05-07-200509 19.38, Description: PDI-087SC-B-05-07-200509

Peak	RA	ny	RRF	W	Area	Height	RT	RT	RT	RT	RT	RT	RT
32 13C-1,2,3,4,6,7,8-HpCDF	4.24e5	0.41	NO	0.774	10.796	37.295	37.34	1.086	1.087	137.05	74.0	0.765	
33 13C-1,2,3,4,7,8,9-HpCDF	2.64e5	0.44	NO	0.521	10.796	39.324	39.29	1.145	1.144	126.90	68.5	1.14	
34 13C-OCDF	6.63e5	0.84	NO	0.746	10.796	41.920	41.92	1.221	1.221	222.49	60.0	0.573	
35 37Cl-2,3,7,8-TCDD	3.68e5			1.04	10.796	26.522	26.48	1.028	1.026	78.714	106	0.140	
36 13C-1,2,3,4-TCDD	8.36e5	0.79	NO	1.00	10.796	25.890	25.81	1.000	1.000	185.26	100	0.247	
37 13C-1,2,3,4-TCDF	1.32e6	0.79	NO	1.00	10.796	24.360	24.12	1.000	1.000	185.26	100	0.301	
38 13C-1,2,3,4,6,9-HxCDF	7.40e5	0.50	NO	1.00	10.796	34.420	34.33	1.000	1.000	185.26	100	0.992	
39 Total Tetra-Dioxins				0.888	10.796	24.620		0.000		1.0106		0.0904	1.01
40 Total Penta-Dioxins				0.908	10.796	29.960		0.000		1.3002		0.0884	2.21
41 Total Hexa-Dioxins				0.892	10.796	33.635		0.000		1.6671		0.138	1.80
42 Total Hepta-Dioxins				0.864	10.796	37.640		0.000		0.65892		0.0902	0.659
43 Total Tetra-Furans				0.751	10.796	23.610		0.000		6.2802		0.0802	8.76
44 1st Func. Penta-Furans				0.893	10.796	27.580		0.000		6.0734		0.0336	6.07
45 Total Penta-Furans				0.893	10.796	29.275		0.000		5.4291		0.108	5.43
46 Total Hexa-Furans				0.934	10.796	33.555		0.000		3.8645		0.116	3.99
47 Total Hepta-Furans				0.873	10.796	37.835		0.000		0.72778		0.162	0.728

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Dataset: U:\VG12.PRO\Results\200618R1\200618R1-9.qld  
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Method: Untitled 01 Jun 2020 11:54:45  
 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200618R1\_9, Date: 18-Jun-2020, Time: 19:16:49, ID: 2001033-03 PDI-087SC-B-05-07-200509 19.38, Description: PDI-087SC-B-05-07-200509

**Tetra-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Port	EMPC	DL
Total Tetra-Dioxins	22.46	4.470e3	6.420e3	4.288e2	5.364e2	0.80	NO	9.651e2	0.21553	0.21553	0.0904
Total Tetra-Dioxins	24.57	8.725e3	1.176e4	8.201e2	1.111e3	0.74	NO	1.931e3	0.43113	0.43113	0.0904
Total Tetra-Dioxins	24.76	5.478e3	8.065e3	4.226e2	6.278e2	0.67	NO	1.050e3	0.23457	0.23457	0.0904
Total Tetra-Dioxins	26.21	4.141e3	4.039e3	2.398e2	3.396e2	0.71	NO	5.793e2	0.12937	0.12937	0.0904

**Penta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Port	EMPC	DL
Total Penta-Dioxins	29.24	1.677e4	2.639e4	1.024e3	1.635e3	0.63	NO	2.659e3	0.85260	0.85260	0.0884
Total Penta-Dioxins	29.70	1.986e3	2.916e3	1.152e2	2.379e2	0.48	YES	0.000e0	0.00000	0.095557	0.0884
Total Penta-Dioxins	30.20	1.041e4	1.274e4	6.382e2	8.068e2	0.79	YES	0.000e0	0.00000	0.42164	0.0884
Total Penta-Dioxins	30.37	1.051e4	1.297e4	5.553e2	8.406e2	0.66	NO	1.396e3	0.44758	0.44758	0.0884
Total Penta-Dioxins	30.46	7.013e3	8.112e3	2.820e2	3.970e2	0.71	NO	0.000e0	0.00000	0.21770	0.0884
Total Penta-Dioxins	30.67	5.627e3	8.383e3	2.094e2	7.100e2	0.29	YES	0.000e0	0.00000	0.17373	0.0884

**Hexa-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Port	EMPC	DL
Total Hexa-Dioxins	33.32	1.758e4	1.667e4	9.981e2	7.545e2	1.32	NO	1.753e3	0.67296	0.67296	0.138
Total Hexa-Dioxins	34.14	2.033e4	1.786e4	1.428e3	1.161e3	1.23	NO	2.589e3	0.99410	0.99410	0.138
1,2,3,6,7,8-HxCDD	34.94	4.435e3	4.112e3	2.321e2	2.217e2	1.05	YES	4.537e2	0.00000	0.13363	0.122

**Hepta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Port	EMPC	DL
Total Hepta-Dioxins	37.72	3.534e3	3.856e3	3.437e2	3.061e2	1.12	NO	6.498e2	0.38662	0.38662	0.0902
1,2,3,4,6,7,8-HpCDD	38.76	4.371e3	3.661e3	2.315e2	2.262e2	1.02	NO	4.577e2	0.27230	0.27230	0.0902

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Name: 200618R1\_9, Date: 18-Jun-2020, Time: 19:16:49, ID: 2001033-03 PDI-087SC-B-05-07-200509 19.38, Description: PDI-087SC-B-05-07-200509

**Tetra-Furans**

Peak	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	PU	Sec	EMPC	DL	
Total Tetra-Furans	20.33	2.726e3	5.643e3	2.836e2	3.397e2	0.83	NO	6.233e2	0.12438	0.12438	0.0802
Total Tetra-Furans	20.86	1.796e4	2.349e4	1.701e3	2.067e3	0.82	NO	3.767e3	0.75179	0.75179	0.0802
Total Tetra-Furans	21.45	4.548e4	5.375e4	3.631e3	4.982e3	0.73	NO	8.613e3	1.7187	1.7187	0.0802
Total Tetra-Furans	21.92	1.013e4	1.440e4	9.527e2	1.286e3	0.74	NO	0.000e0	0.00000	0.44681	0.0802
Total Tetra-Furans	22.08	5.287e3	5.204e3	3.551e2	4.734e2	0.75	NO	0.000e0	0.00000	0.16532	0.0802
Total Tetra-Furans	22.43	2.491e4	3.533e4	2.436e3	3.495e3	0.70	NO	5.931e3	1.1835	1.1835	0.0802
Total Tetra-Furans	22.91	2.459e4	3.642e4	2.544e3	3.466e3	0.73	NO	6.010e3	1.1993	1.1993	0.0802
Total Tetra-Furans	23.28	4.619e3	5.697e3	3.553e2	4.789e2	0.74	NO	8.342e2	0.16647	0.16647	0.0802
Total Tetra-Furans	23.85	5.504e3	9.172e3	4.633e2	6.439e2	0.72	NO	0.000e0	0.00000	0.22096	0.0802
Total Tetra-Furans	24.01	2.377e4	3.016e4	1.923e3	2.686e3	0.72	NO	0.000e0	0.00000	0.91959	0.0802
Total Tetra-Furans	24.12	6.414e3	8.718e3	4.403e2	5.734e2	0.77	NO	0.000e0	0.00000	0.20228	0.0802
Total Tetra-Furans	24.66	7.861e3	1.110e4	7.901e2	1.086e3	0.73	NO	1.877e3	0.37446	0.37446	0.0802
Total Tetra-Furans	24.94	2.808e3	3.599e3	2.329e2	3.142e2	0.74	NO	5.470e2	0.10916	0.10916	0.0802
Total Tetra-Furans	25.18	3.076e3	3.955e3	2.902e2	4.121e2	0.70	NO	7.023e2	0.14013	0.14013	0.0802
Total Tetra-Furans	25.36	2.857e3	5.582e3	1.912e2	2.858e2	0.67	NO	0.000e0	0.00000	0.095172	0.0802
Total Tetra-Furans	25.48	5.300e3	8.204e3	3.687e2	5.258e2	0.70	NO	0.000e0	0.00000	0.17850	0.0802
2,3,7,8-TCDF	25.62	3.041e3	4.308e3	2.219e2	3.353e2	0.66	NO	5.572e2	0.11111	0.11111	0.0802
Total Tetra-Furans	25.97	3.728e3	4.361e3	1.903e2	2.875e2	0.66	NO	4.778e2	0.095350	0.095350	0.0802
Total Tetra-Furans	26.21	2.574e3	3.400e3	1.515e2	1.840e2	0.82	NO	3.355e2	0.066953	0.066953	0.0802
Total Tetra-Furans	27.11	4.344e3	5.777e3	2.341e2	3.386e2	0.69	NO	5.727e2	0.11429	0.11429	0.0802
Total Tetra-Furans	27.31	5.214e3	6.011e3	2.857e2	3.380e2	0.85	NO	6.237e2	0.12446	0.12446	0.0802
Total Tetra-Furans	27.59	8.346e3	9.206e3	6.452e2	7.127e2	0.91	YES	0.000e0	0.00000	0.25174	0.0802

**Penta-Furans function 1**

Peak	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	PU	Sec	EMPC	DL	
1st Func. Penta-Furans	27.58	2.426e5	1.597e5	1.753e4	1.044e4	1.68	NO	2.796e4	6.0734	6.0734	0.0336



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Name: 200618R1\_9, Date: 18-Jun-2020, Time: 19:16:49, ID: 2001033-03 PDI-087SC-B-05-07-200509 19.38, Description: PDI-087SC-B-05-07-200509

**Penta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PA	N/Y	S Resp	h Conc	EMPC	OL
Total Penta-Furans	29.04	1.609e4	8.285e3	7.654e2	5.062e2	1.51	NO	1.272e3	0.27618	0.27618	0.108
Total Penta-Furans	29.19	6.766e4	4.464e4	5.594e3	3.566e3	1.57	NO	9.160e3	1.9895	1.9895	0.108
Total Penta-Furans	29.27	1.574e4	7.287e3	5.866e2	3.463e2	1.69	NO	9.330e2	0.20263	0.20263	0.108
Total Penta-Furans	29.76	5.871e4	4.321e4	4.137e3	2.703e3	1.53	NO	6.840e3	1.4856	1.4856	0.108
Total Penta-Furans	30.43	1.737e4	1.316e4	1.194e3	9.026e2	1.32	NO	2.096e3	0.45527	0.45527	0.108
2,3,4,7,8-PeCDF	31.18	4.191e4	2.846e4	2.686e3	1.674e3	1.61	NO	4.360e3	0.91490	0.91490	0.104
Total Penta-Furans	31.22	7.752e3	4.896e3	2.794e2	2.043e2	1.37	NO	4.837e2	0.10505	0.10505	0.108

**Hexa-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PA	N/Y	S Resp	h Conc	EMPC	OL
Total Hexa-Furans	32.78	9.244e3	7.539e3	4.842e2	4.031e2	1.20	NO	8.874e2	0.28910	0.28910	0.116
Total Hexa-Furans	32.95	4.381e4	4.052e4	2.770e3	2.264e3	1.22	NO	5.034e3	1.6401	1.6401	0.116
Total Hexa-Furans	33.47	3.936e4	3.190e4	2.253e3	1.875e3	1.20	NO	4.128e3	1.3449	1.3449	0.116
1,2,3,4,7,8-HxCDF	33.95	8.052e3	5.935e3	3.823e2	3.048e2	1.25	NO	6.870e2	0.25614	0.25614	0.114
1,2,3,6,7,8-HxCDF	34.06	4.286e3	4.827e3	2.598e2	2.666e2	0.97	YES	5.264e2	0.00000	0.13022	0.0989
2,3,4,6,7,8-HxCDF	34.67	8.115e3	7.512e3	5.647e2	4.795e2	1.18	NO	1.044e3	0.33428	0.33428	0.112

**Hepta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PA	N/Y	S Resp	h Conc	EMPC	OL
1,2,3,4,6,7,8-HpCDF	37.38	4.740e3	4.346e3	3.547e2	3.617e2	0.98	NO	7.164e2	0.35850	0.35850	0.135
Total Hepta-Furans	37.97	4.083e3	3.757e3	2.964e2	3.024e2	0.98	NO	5.988e2	0.36929	0.36929	0.162

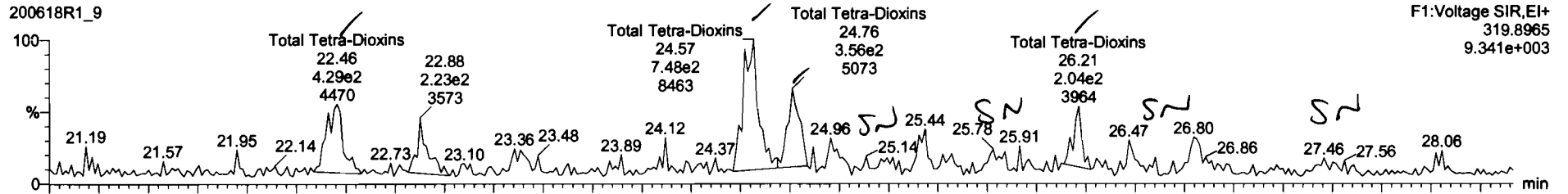
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

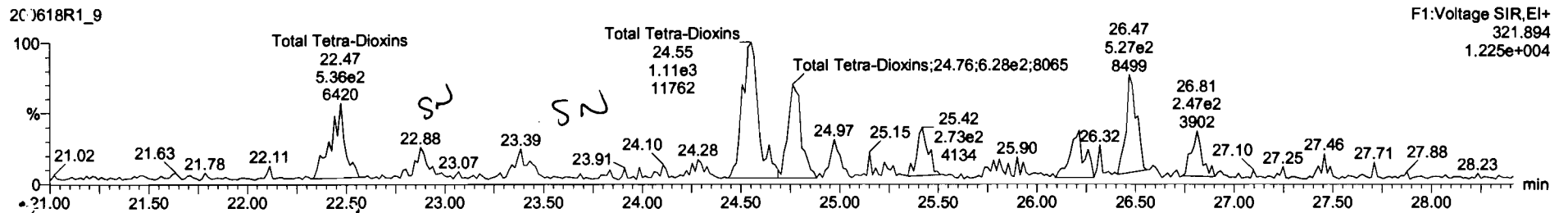
Name: 200618R1\_9, Date: 18-Jun-2020, Time: 19:16:49, ID: 2001033-03 PDI-087SC-B-05-07-200509 19.38, Description: PDI-087SC-B-05-07-200509

2,3,7,8-TCDD

200618R1\_9

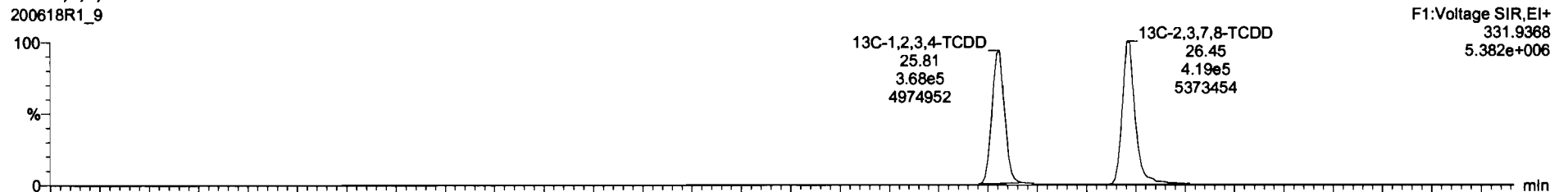


200618R1\_9

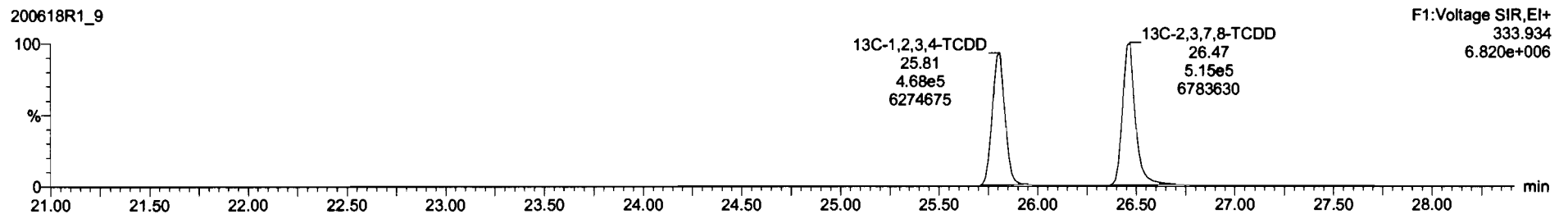


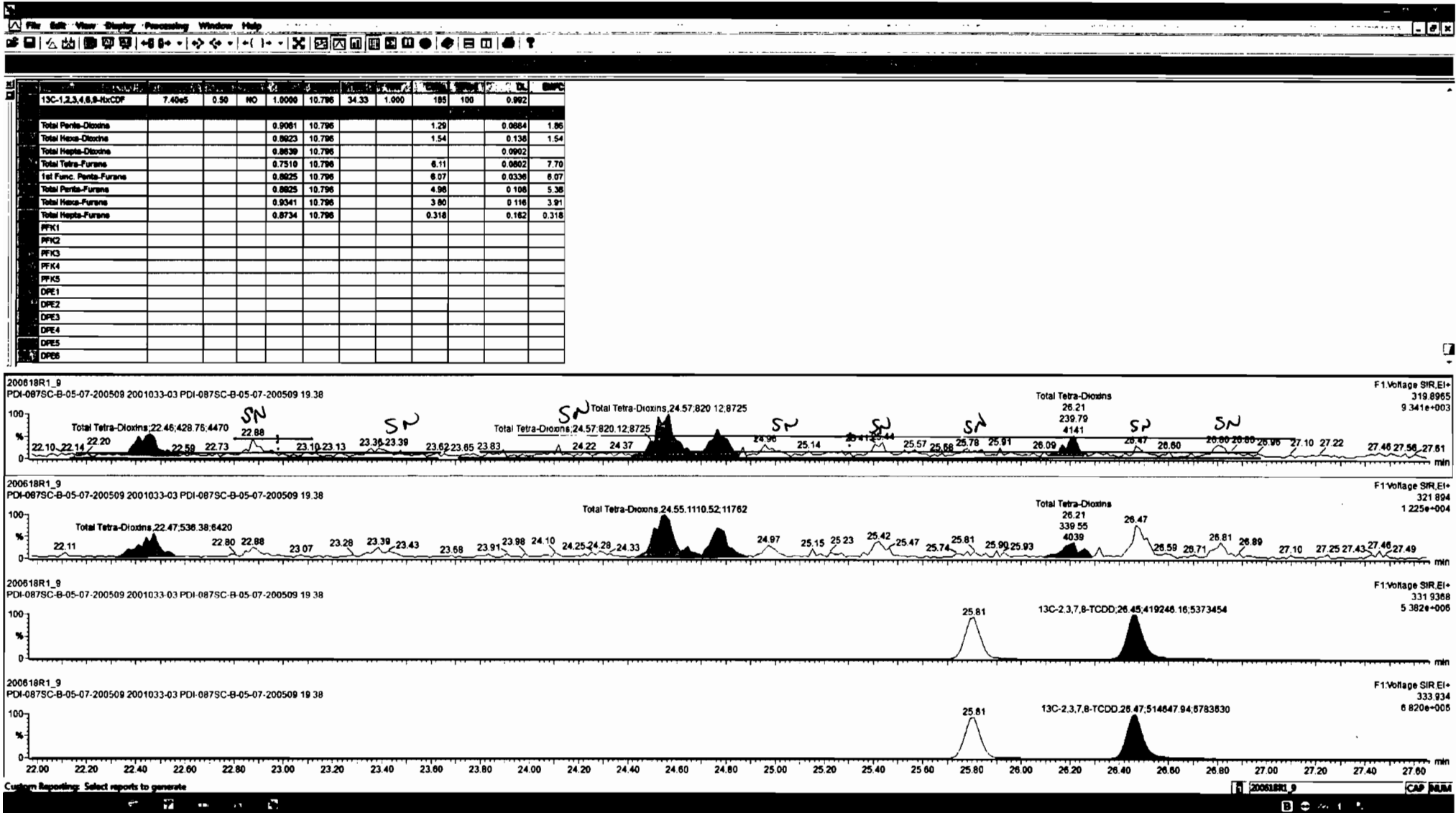
13C-2,3,7,8-TCDD

200618R1\_9



200618R1\_9





Dataset: Untitled

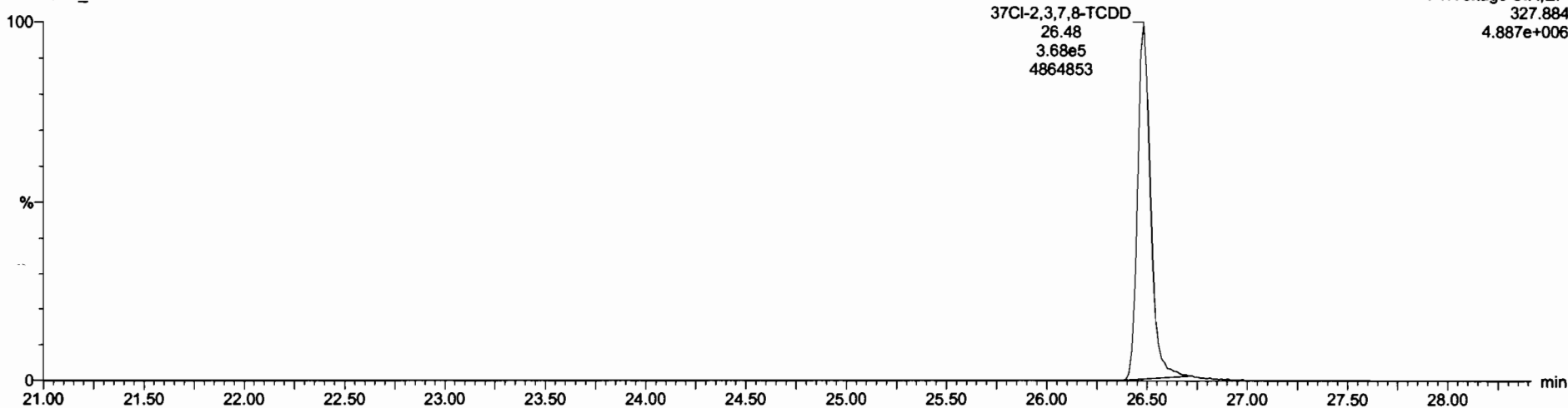
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Name: 200618R1\_9, Date: 18-Jun-2020, Time: 19:16:49, ID: 2001033-03 PDI-087SC-B-05-07-200509 19.38, Description: PDI-087SC-B-05-07-200509

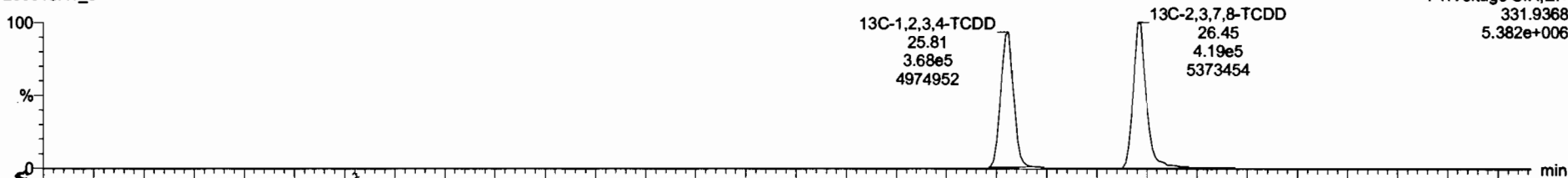
**37Cl-2,3,7,8-TCDD**

200618R1\_9

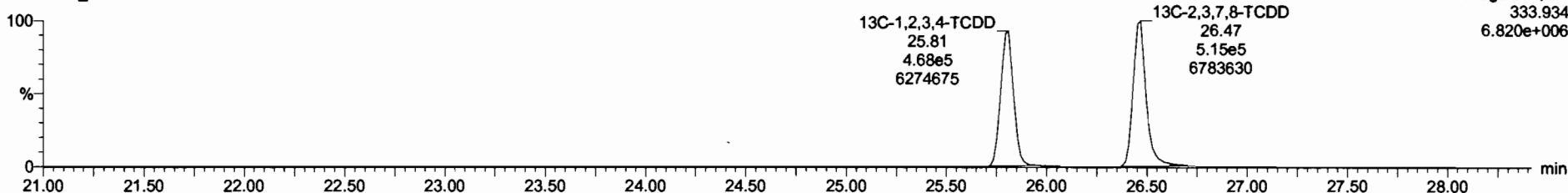


**13C-1,2,3,4-TCDD**

200618R1\_9



200618R1\_9

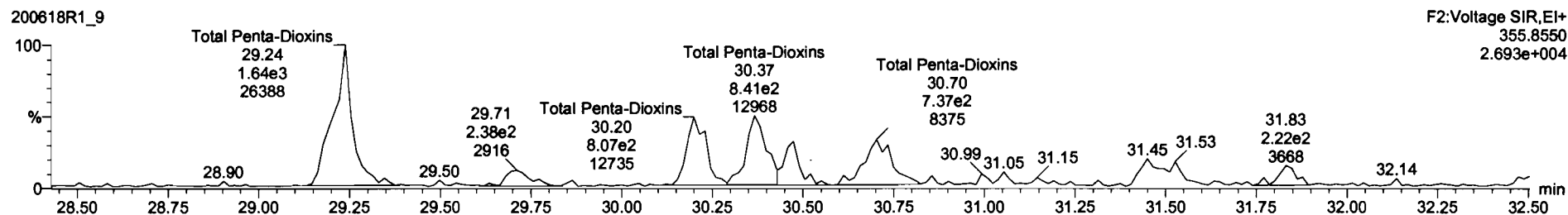
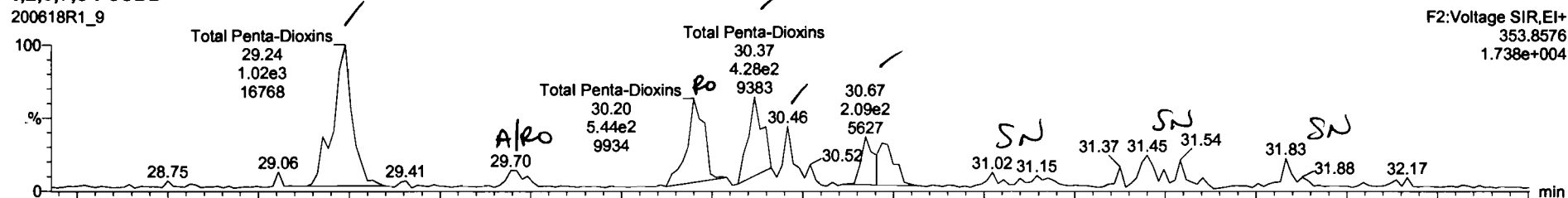


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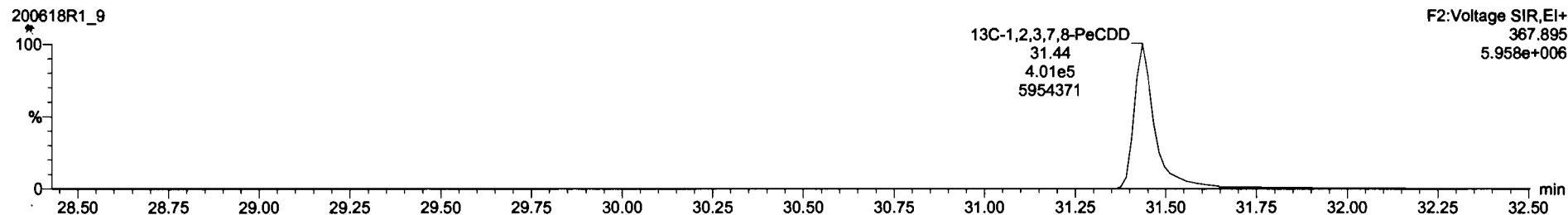
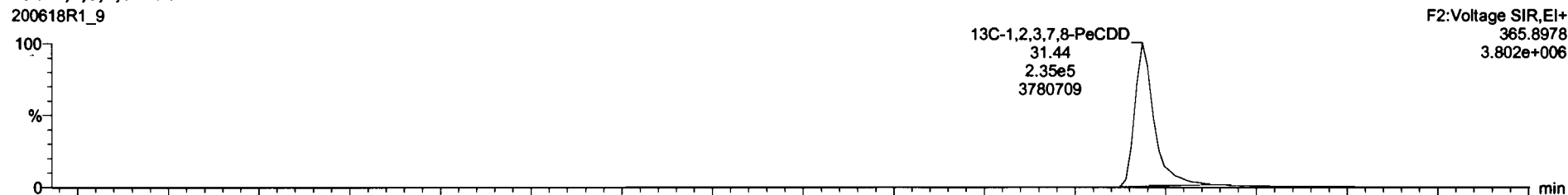
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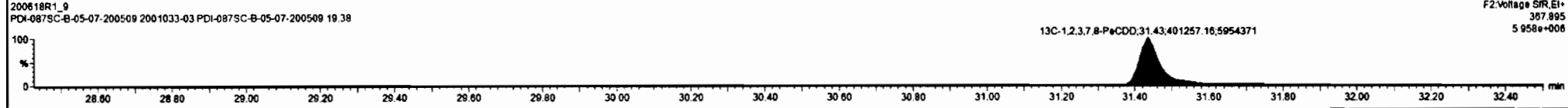
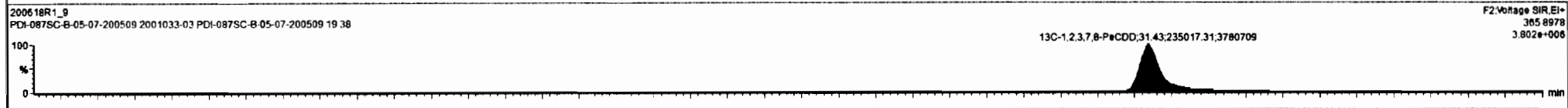
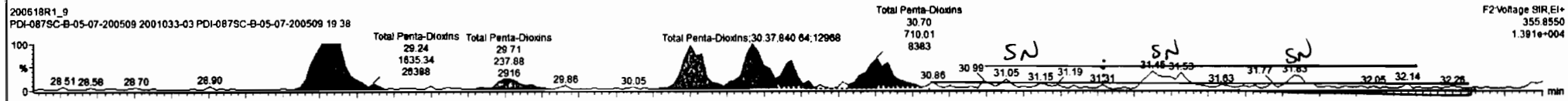
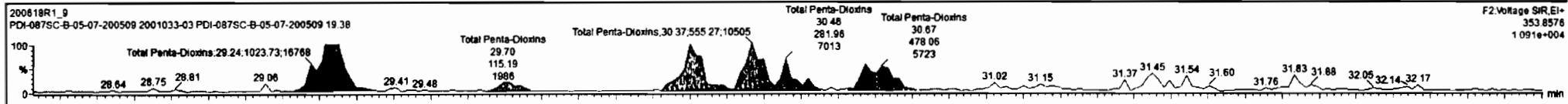
1,2,3,7,8-PeCDD



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



	13C-1,2,3,4,6,8-HxCDF	7.40e5	0.50	NO	1.0000	10.796	34.33	1.000	185	100	0.992	
Total Tetra-Dioxins					0.0083	10.796			1.01		0.0904	1.01
Total Hexa-Dioxins					0.0023	10.796			1.54		0.136	1.54
Total Hepta-Dioxins					0.0039	10.796					0.0902	
Total Tetra-Furans					0.7510	10.796			6.11		0.0802	7.70
1st Func. Penta-Furans					0.0025	10.796			6.07		0.0336	6.07
Total Penta-Furans					0.0025	10.796			4.96		0.108	5.38
Total Hexa-Furans					0.9341	10.796			3.80		0.116	3.91
Total Hepta-Furans					0.8734	10.796			0.318		0.162	0.318
PFK1												
PFK2												
PFK3												
PFK4												
PFK5												
DPE1												
DPE2												
DPE3												
DPE4												
DPE5												
DPE6												

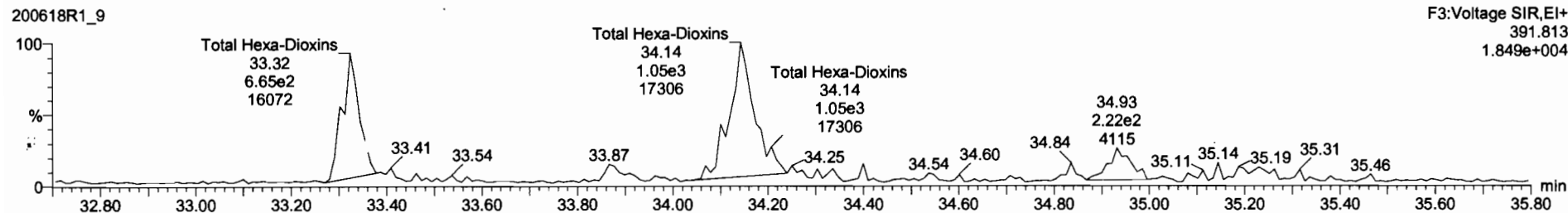
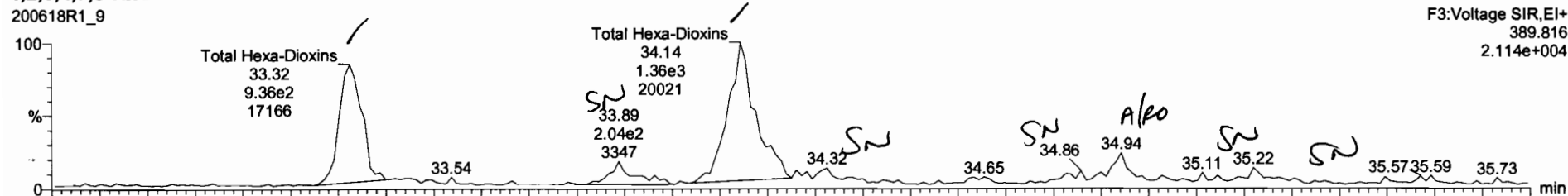


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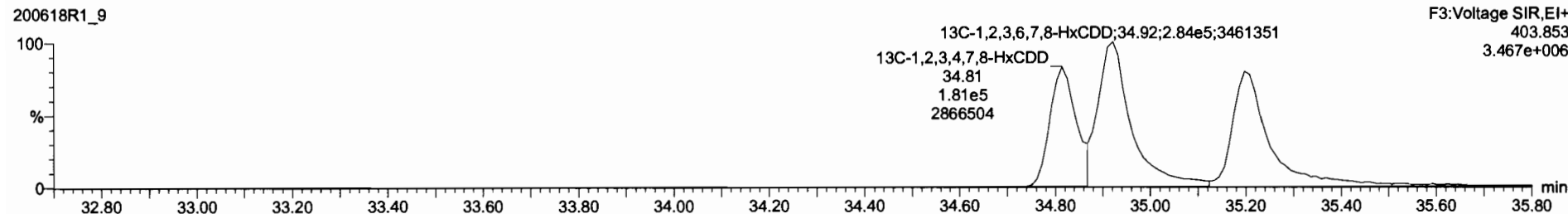
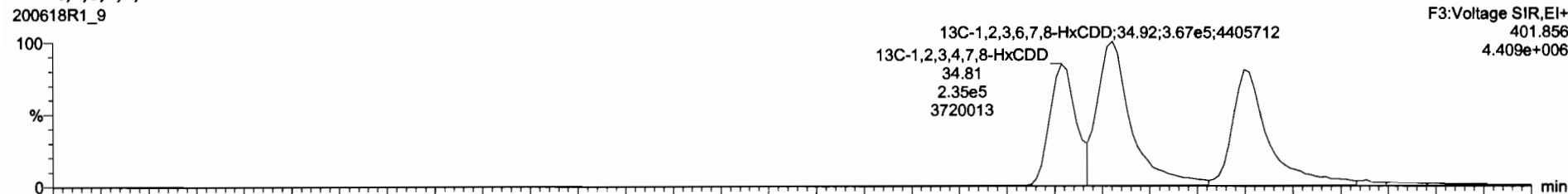
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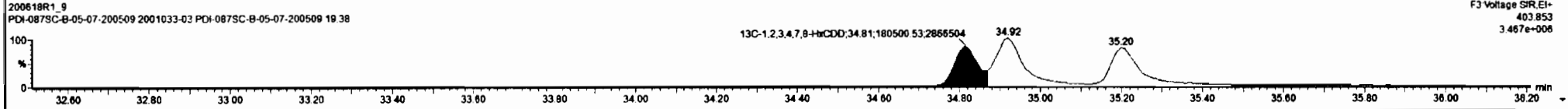
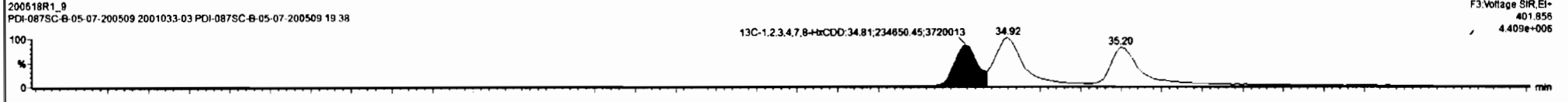
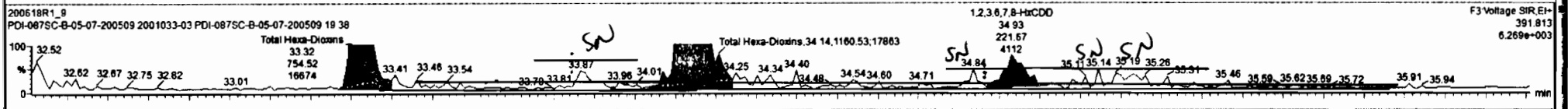
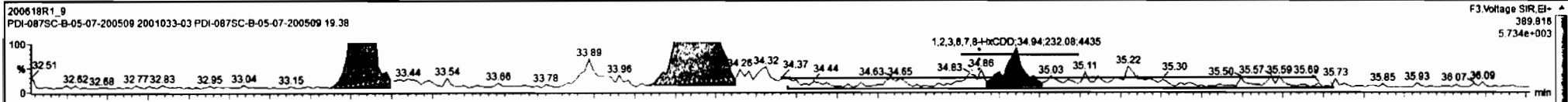
1,2,3,4,7,8-HxCDD



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



Comp	Area	Height	Width	Retention	Response	Concentration	Unit
13C-1,2,3,4,6,8-HxCDF	7.40e5	0.50	NO	1.0000	10.796	34.33	1.000
Total Tetra-Dioxins				0.0083	10.796		1.01
Total Penta-Dioxins				0.0081	10.796		1.00
Total Hepta-Dioxins				0.0039	10.796		0.0902
Total Tetra-Furans				0.7510	10.796		6.11
1st Func. Penta-Furans				0.0025	10.796		6.07
Total Penta-Furans				0.0025	10.796		4.90
Total Hexa-Furans				0.0341	10.796		3.90
Total Hepta-Furans				0.0734	10.796		0.318
PFK1							
PFK2							
PFK3							
PFK4							
PFK5							
DPE1							
DPE2							
DPE3							
DPE4							
DPE5							
DPE6							





Dataset: Untitled

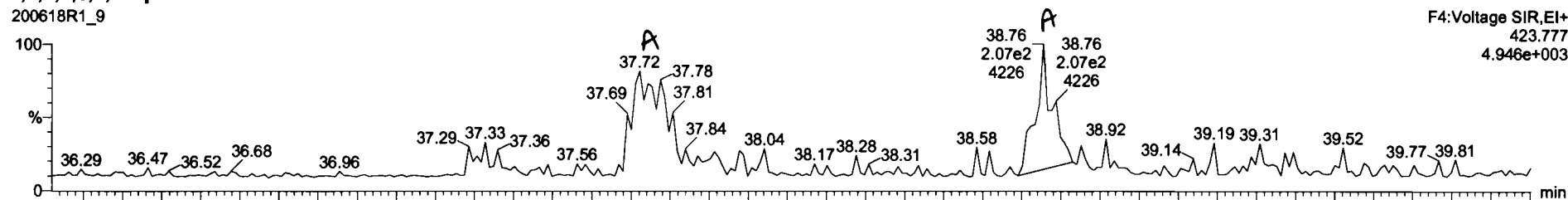
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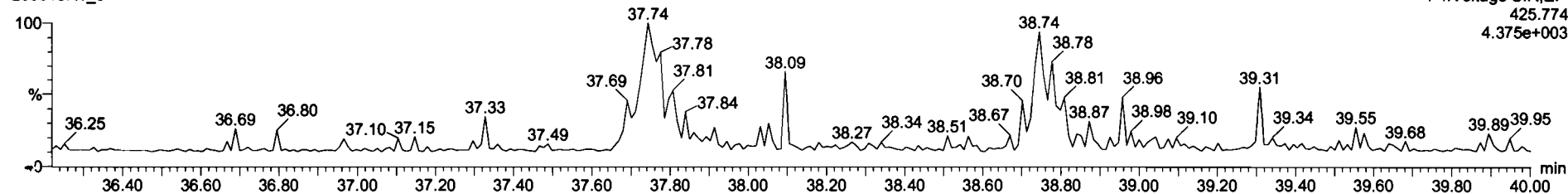
Name: 200618R1\_9, Date: 18-Jun-2020, Time: 19:16:49, ID: 2001033-03 PDI-087SC-B-05-07-200509 19.38, Description: PDI-087SC-B-05-07-200509

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

200618R1\_9

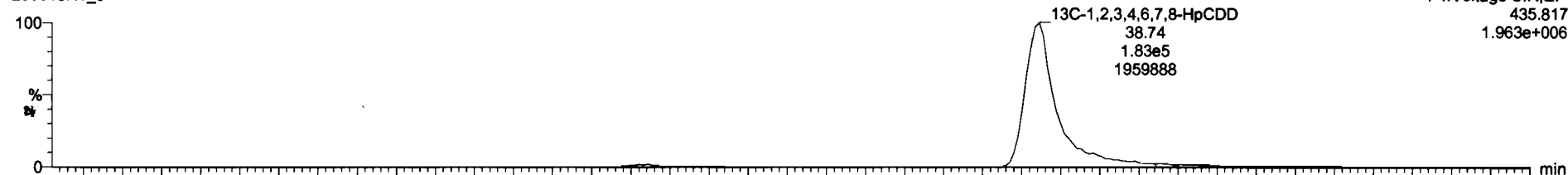


200618R1\_9

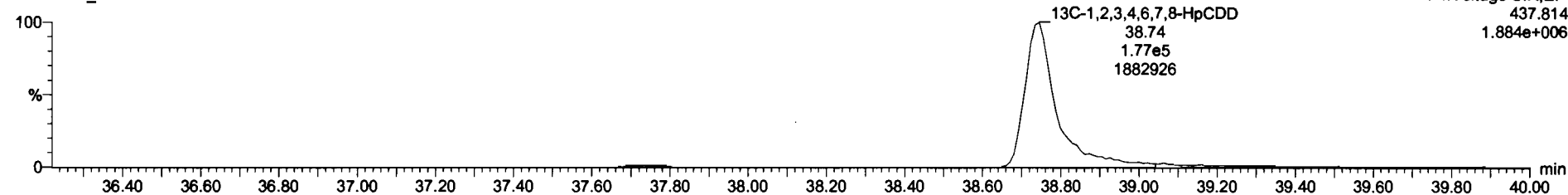


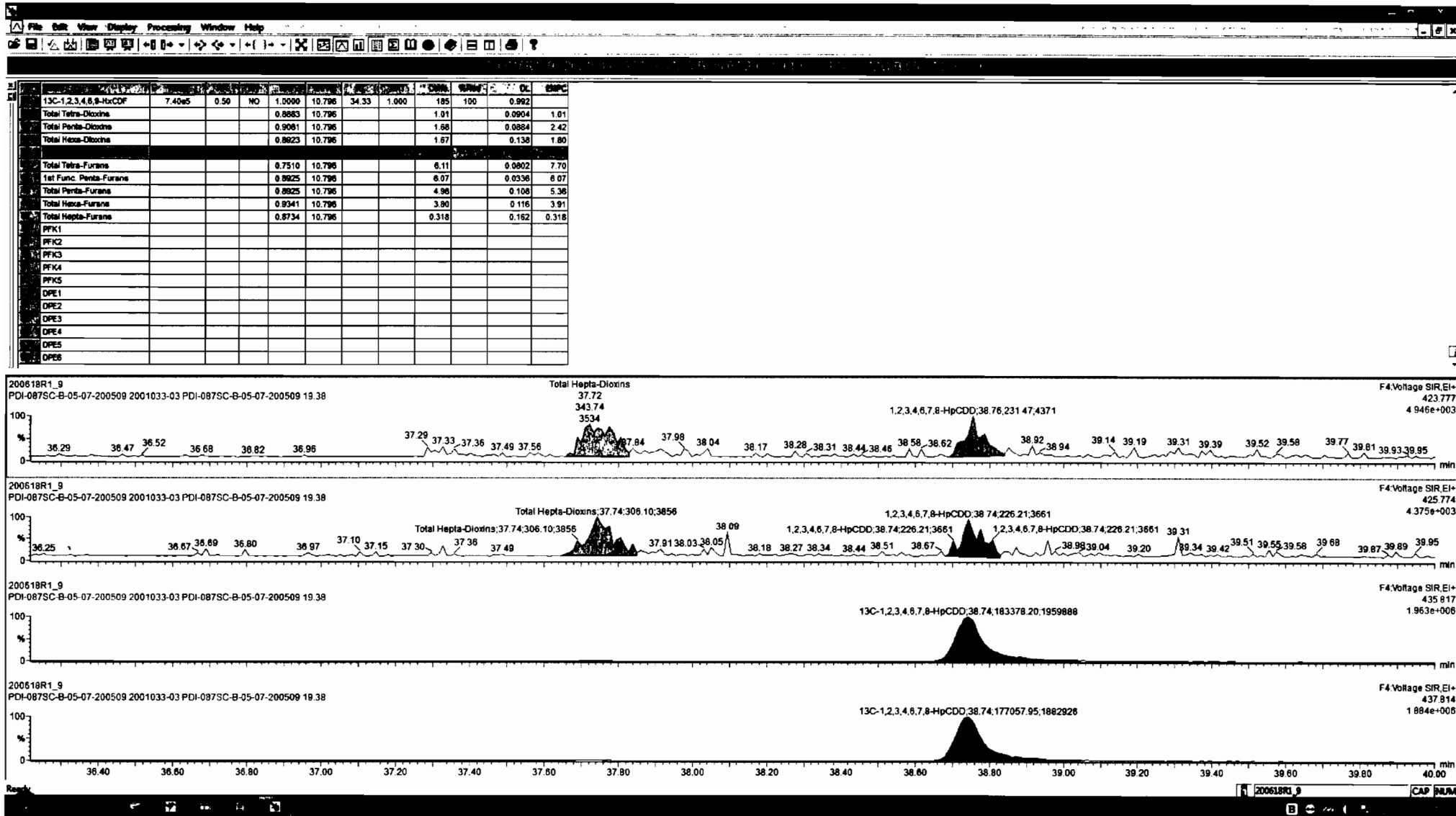
13C-1,2,3,4,6,7,8-HpCDD

200618R1\_9



200618R1\_9

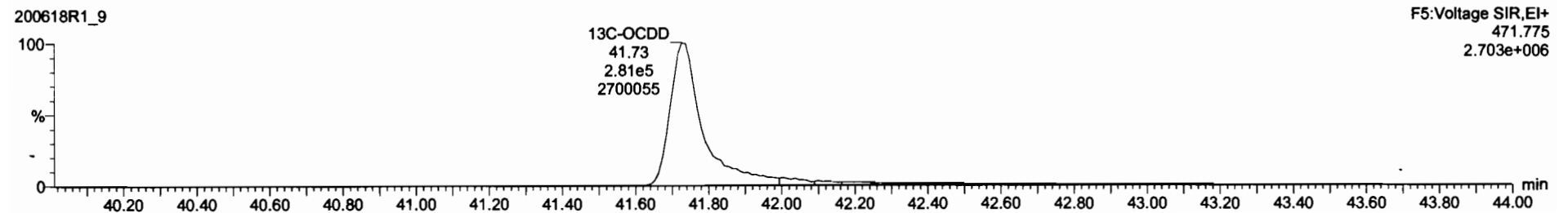
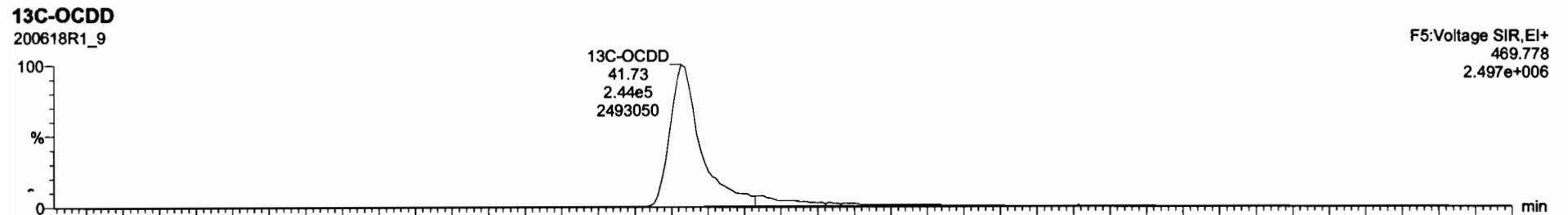
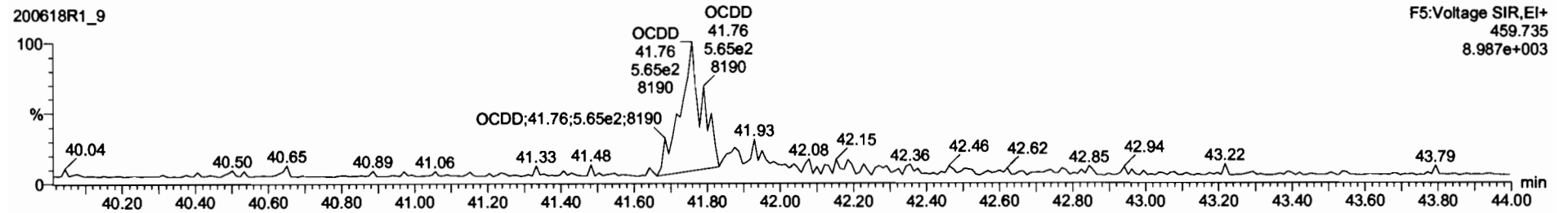
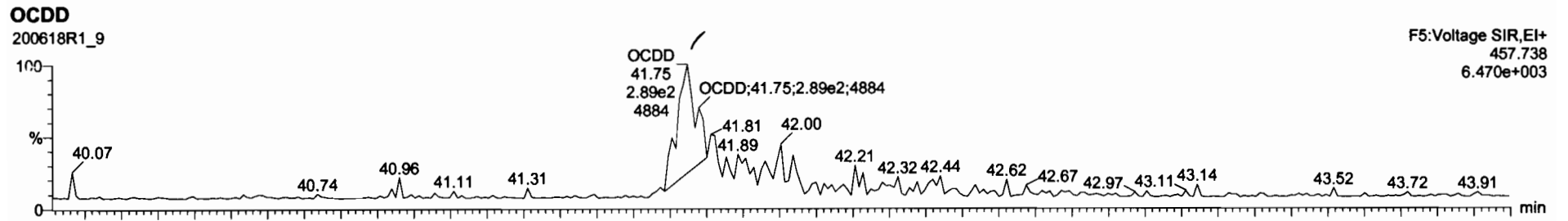




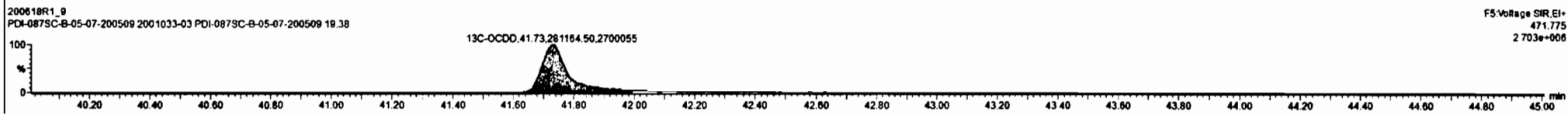
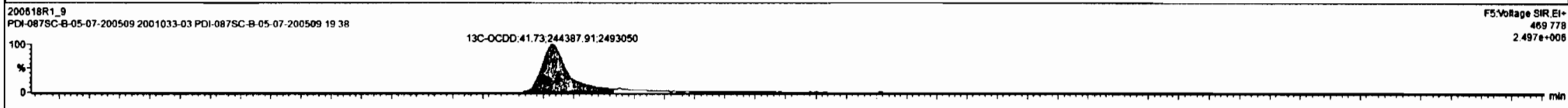
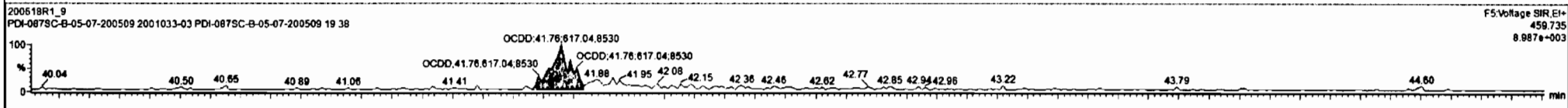
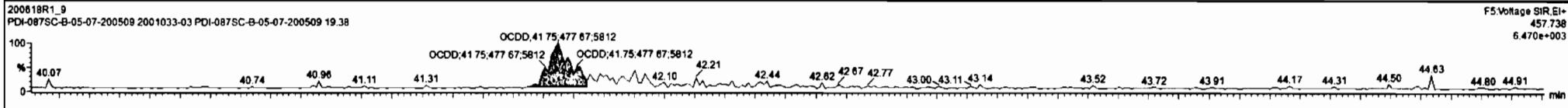
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Name: 200618R1\_9, Date: 18-Jun-2020, Time: 19:16:49, ID: 2001033-03 PDI-087SC-B-05-07-200509 19.38, Description: PDI-087SC-B-05-07-200509



2,3,7,8-TCDD			NO	0.0063	10.796							0.0904	
1,2,3,7,8-PeCDD			NO	0.9081	10.796							0.0684	
1,2,3,4,7,8-HxCDD			NO	1.0334	10.796							0.128	
1,2,3,6,7,8-HxCDD			NO	0.9823	10.796							0.122	
1,2,3,7,8,9-HxCDD			NO	0.9699	10.796							0.151	
1,2,3,4,6,7,8-HpCDD			NO	0.8839	10.796							0.167	
2,3,7,8-TCDF			NO	0.7510	10.796							0.0802	
1,2,3,7,8-PeCDF			NO	0.9025	10.796							0.106	
2,3,4,7,8-PeCDF	4.85e3	1.58	NO	0.9348	10.796	31.18	1.001	1.02				0.104	1.02
1,2,3,4,7,8-HxCDF	6.07e2	1.27	NO	0.9845	10.796	33.95	1.000	0.228				0.114	0.228
1,2,3,6,7,8-HxCDF	4.87e2	0.83	YES	0.9982	10.796	34.08	1.000	0.135				0.0909	0.111
2,3,4,6,7,8-HxCDF	1.05e3	1.06	NO	0.9341	10.796	34.67	1.000	0.336				0.112	0.336
1,2,3,7,8,9-HxCDF			NO	0.8707	10.796							0.175	
1,2,3,4,6,7,8-HpCDF	6.36e2	0.92	NO	0.8734	10.796	37.38	1.001	0.318				0.135	0.318
1,2,3,4,7,8,9-HpCDF			NO	1.0128	10.796							0.177	
OCDF			NO	0.8085	10.796							0.121	
13C-2,3,7,8-TCDD	9.34e5	0.81	NO	1.1563	10.796	26.45	1.025	179	96.6			0.214	
13C-1,2,3,7,8-PeCDD	6.36e5	0.59	NO	0.8490	10.796	31.43	1.218	168	88.7			0.482	
13C-1,2,3,4,7,8-HxCDD	4.15e5	1.30	NO	0.7790	10.796	34.81	1.014	133	72.0			0.729	
13C-1,2,3,6,7,8-HxCDD	6.51e5	1.29	NO	1.0467	10.796	34.92	1.017	160	86.6			0.558	

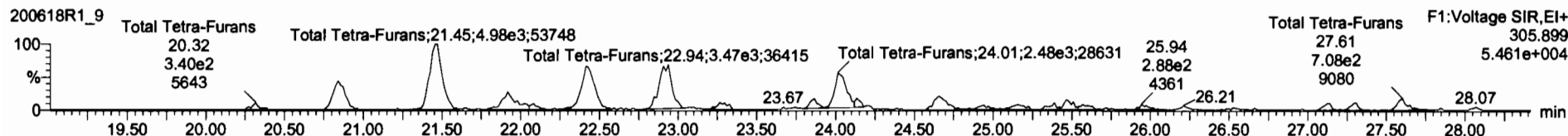


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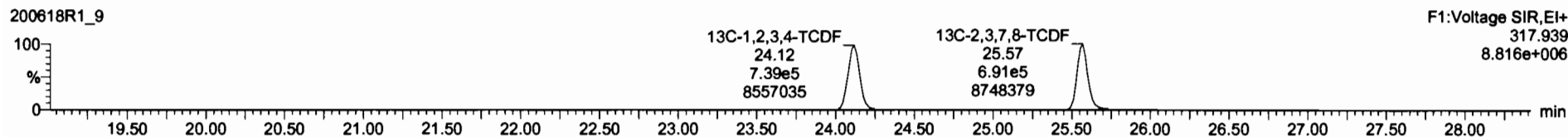
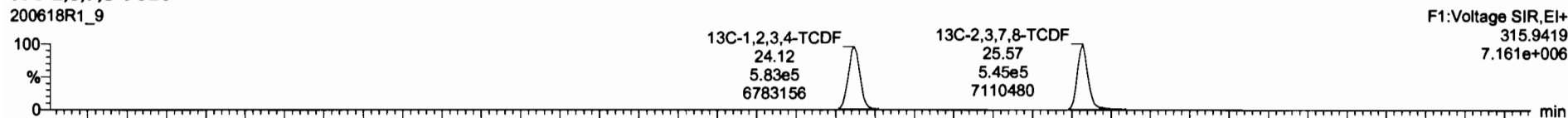
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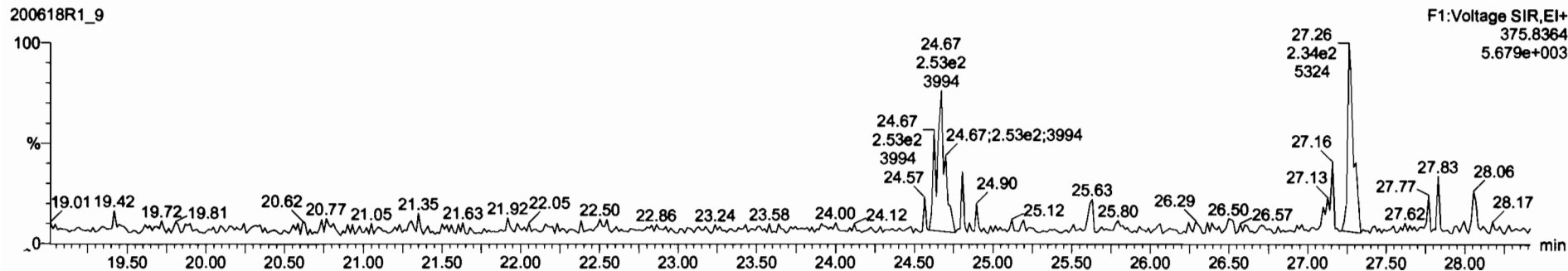
**2,3,7,8-TCDF**



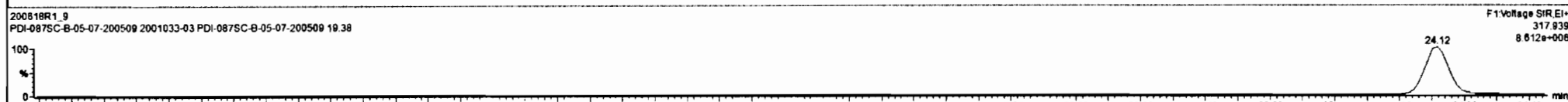
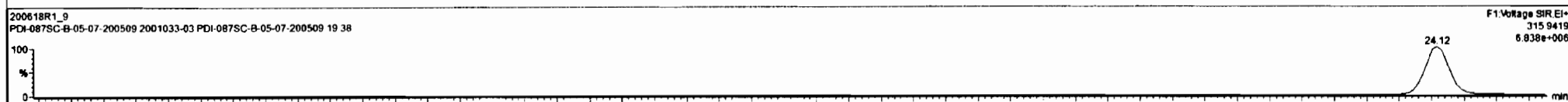
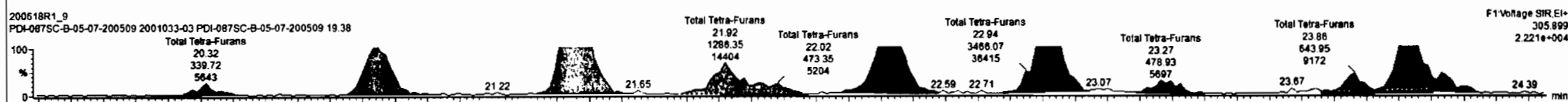
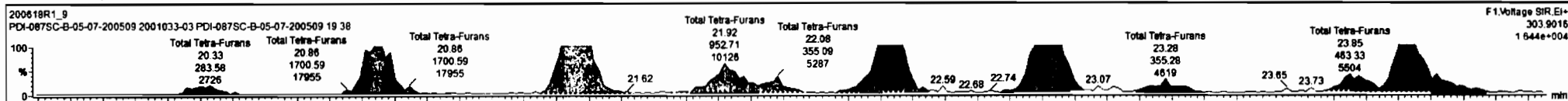
**<sup>13</sup>C-2,3,7,8-TCDF**

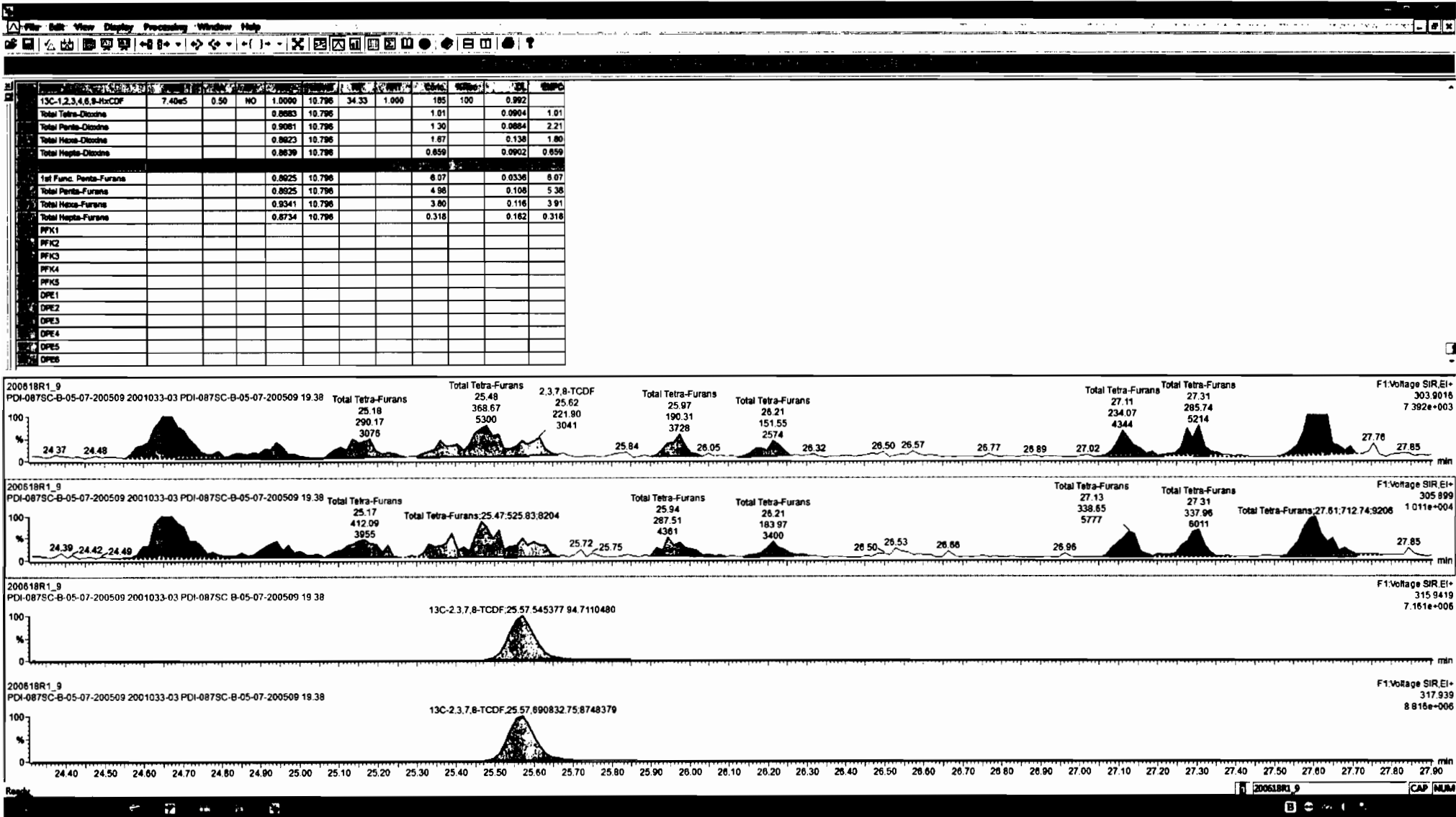


**DPE1**

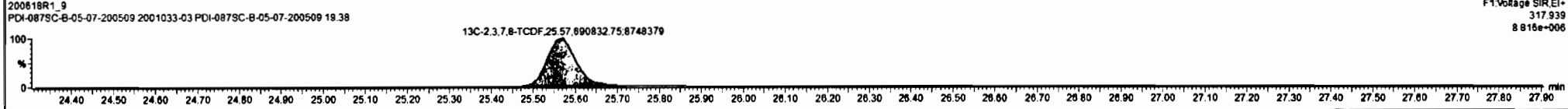
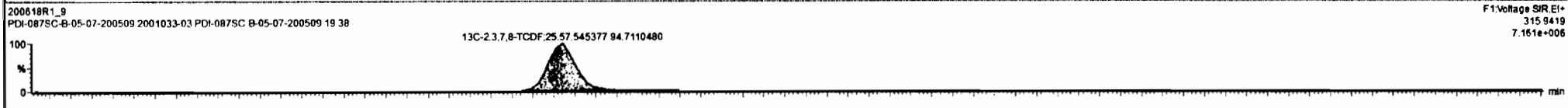
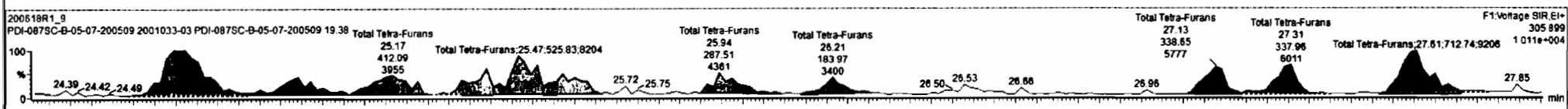
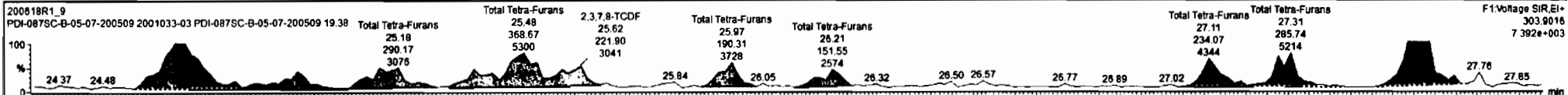


CONC	WTR	TR	EMPC								
13C-1,2,3,4,6,8-HxCDF	7.40e5	0.50	NO	1.0000	10.796	34.33	1.000	185	100	0.992	
Total Tetra-Dioxins				0.9983	10.796			1.01		0.9904	1.01
Total Penta-Dioxins				0.9081	10.796			1.30		0.9884	2.21
Total Hexa-Dioxins				0.8823	10.796			1.67		0.138	1.60
Total Hepta-Dioxins				0.8639	10.796			0.659		0.9902	0.659
1st Func. Penta-Furans				0.9925	10.796			6.07		0.0336	6.07
Total Penta-Furans				0.9925	10.796			4.98		0.108	5.36
Total Hexa-Furans				0.9341	10.796			3.80		0.118	3.91
Total Hepta-Furans				0.8734	10.796			0.318		0.162	0.318
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
DPE6											





Compound	Area	Height	Width	Area%	Height%	Width%
13C-1,2,3,4,6,8-HxCDF	7.40e5	0.50	NO	1.0000	10.796	34.33
Total Tetra-Dioxine				0.0083	10.796	
Total Penta-Dioxine				0.9081	10.796	
Total Hexa-Dioxine				0.9023	10.796	
Total Hepta-Dioxine				0.8639	10.796	
1st Func. Penta-Furans				0.0025	10.796	
Total Penta-Furans				0.0025	10.796	
Total Hexa-Furans				0.9341	10.796	
Total Hepta-Furans				0.8734	10.796	
PFK1						
PFK2						
PFK3						
PFK4						
PFK5						
DPE1						
DPE2						
DPE3						
DPE4						
DPE5						
DPE6						



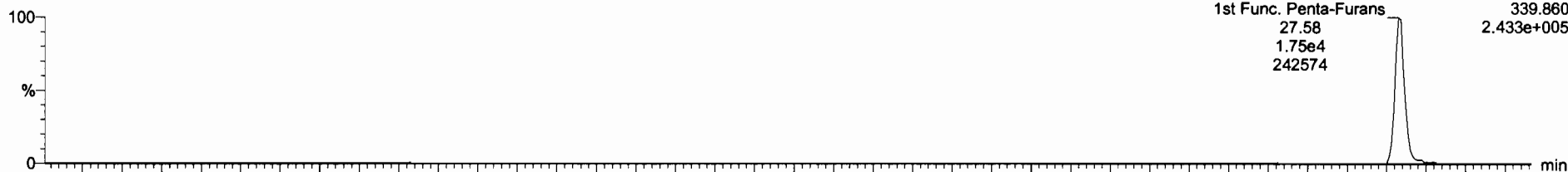
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

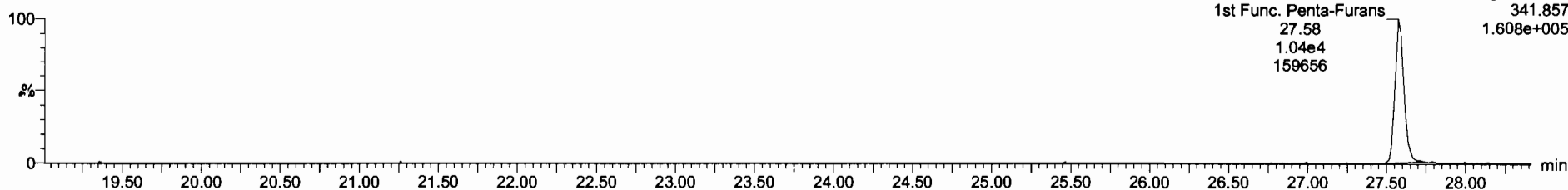
Name: 200618R1\_9, Date: 18-Jun-2020, Time: 19:16:49, ID: 2001033-03 PDI-087SC-B-05-07-200509 19.38, Description: PDI-087SC-B-05-07-200509

1st Func. Penta-Furans

200618R1\_9

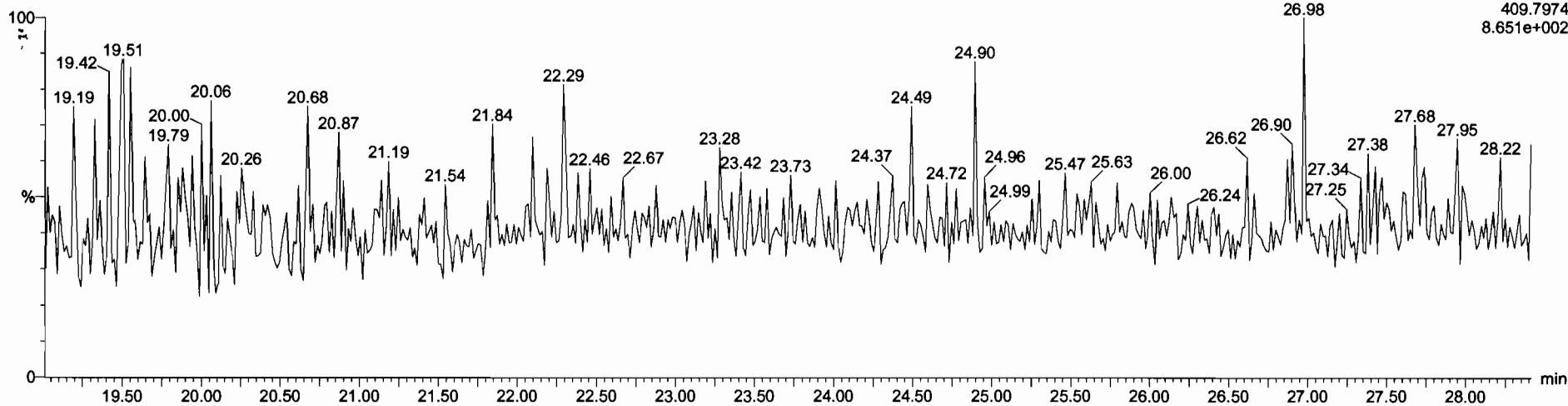


200618R1\_9



DPE6

200618R1\_9



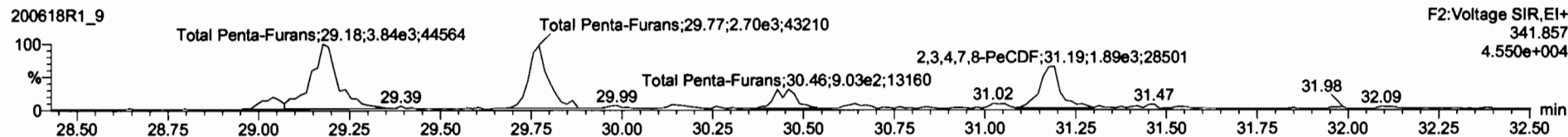
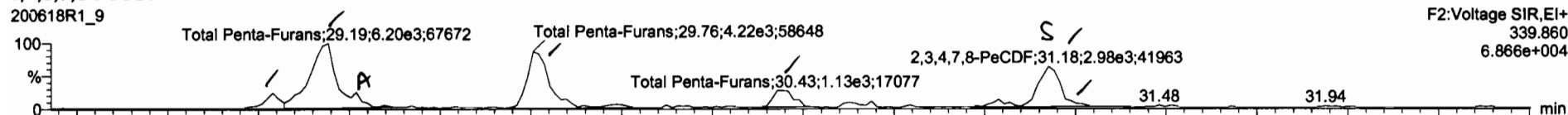


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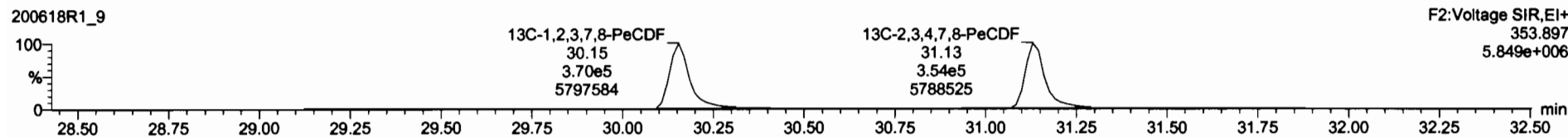
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1\_9, Date: 18-Jun-2020, Time: 19:16:49, ID: 2001033-03 PDI-087SC-B-05-07-200509 19.38, Description: PDI-087SC-B-05-07-200509

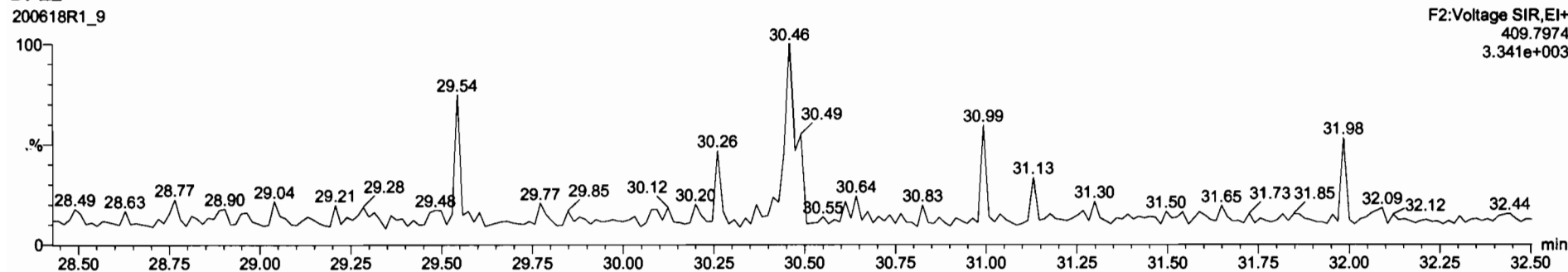
**1,3,7,8-PeCDF**

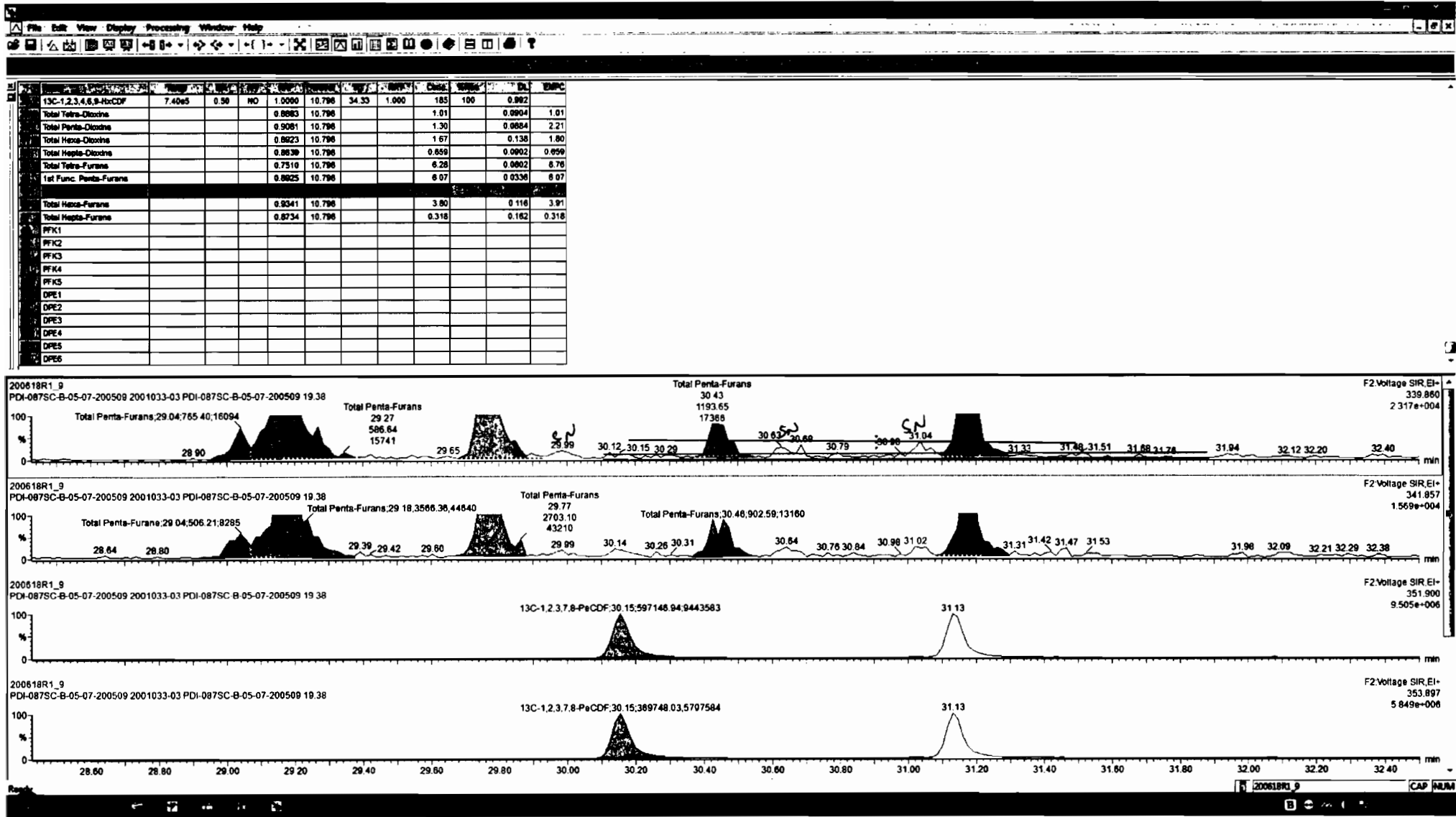


**13C-1,2,3,7,8-PeCDF**



**DPE2**



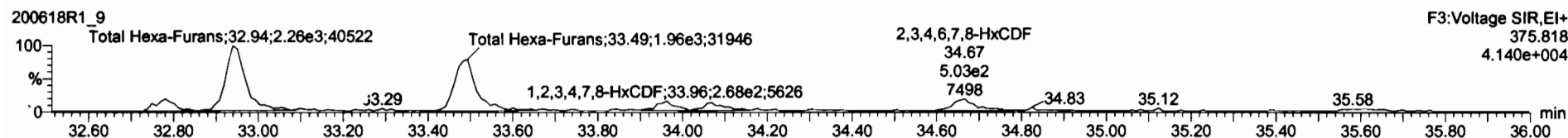
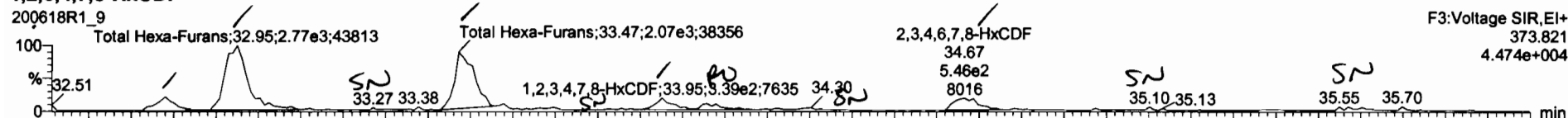


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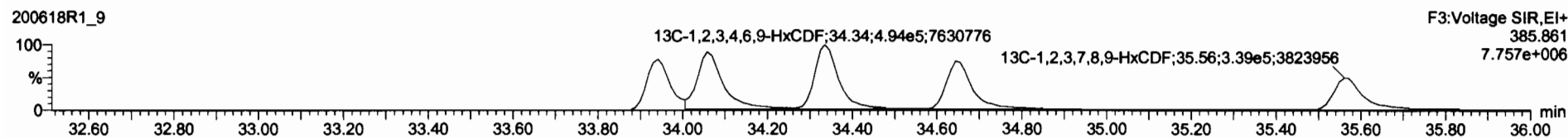
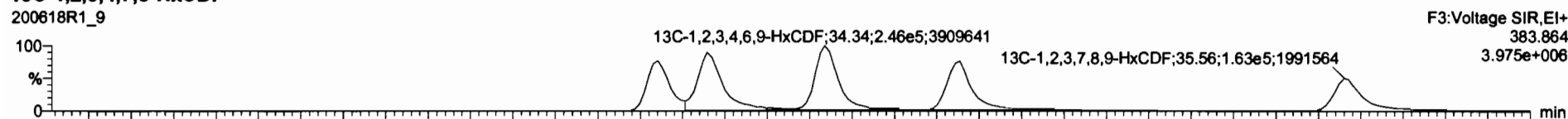
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Name: 200618R1\_9, Date: 18-Jun-2020, Time: 19:16:49, ID: 2001033-03 PDI-087SC-B-05-07-200509 19.38, Description: PDI-087SC-B-05-07-200509

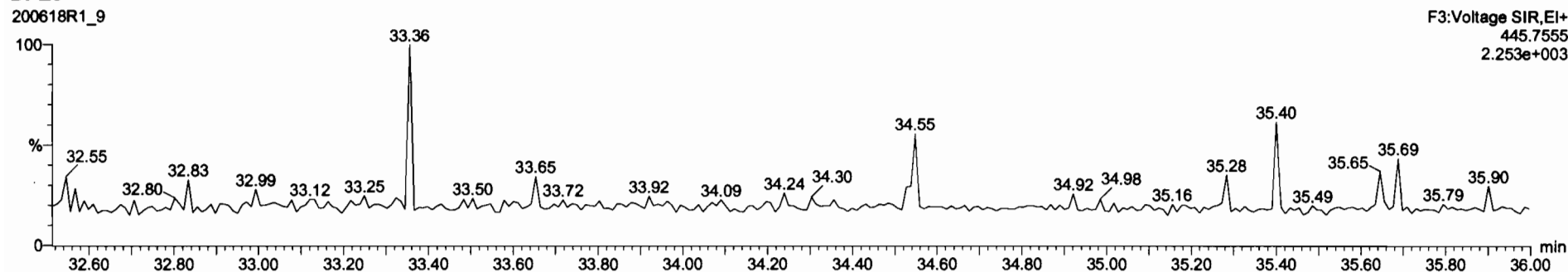
1,2,3,4,7,8-HxCDF

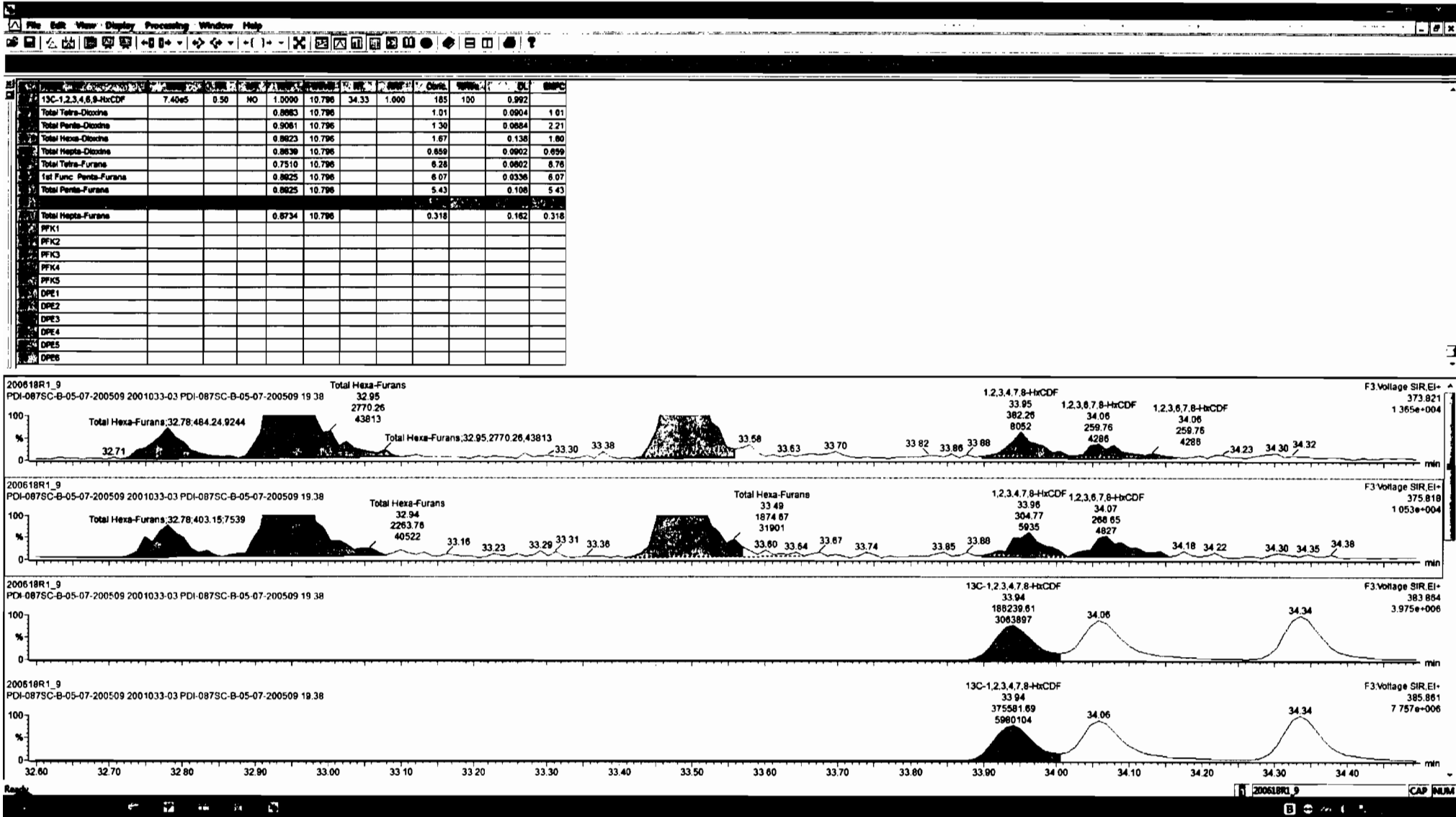


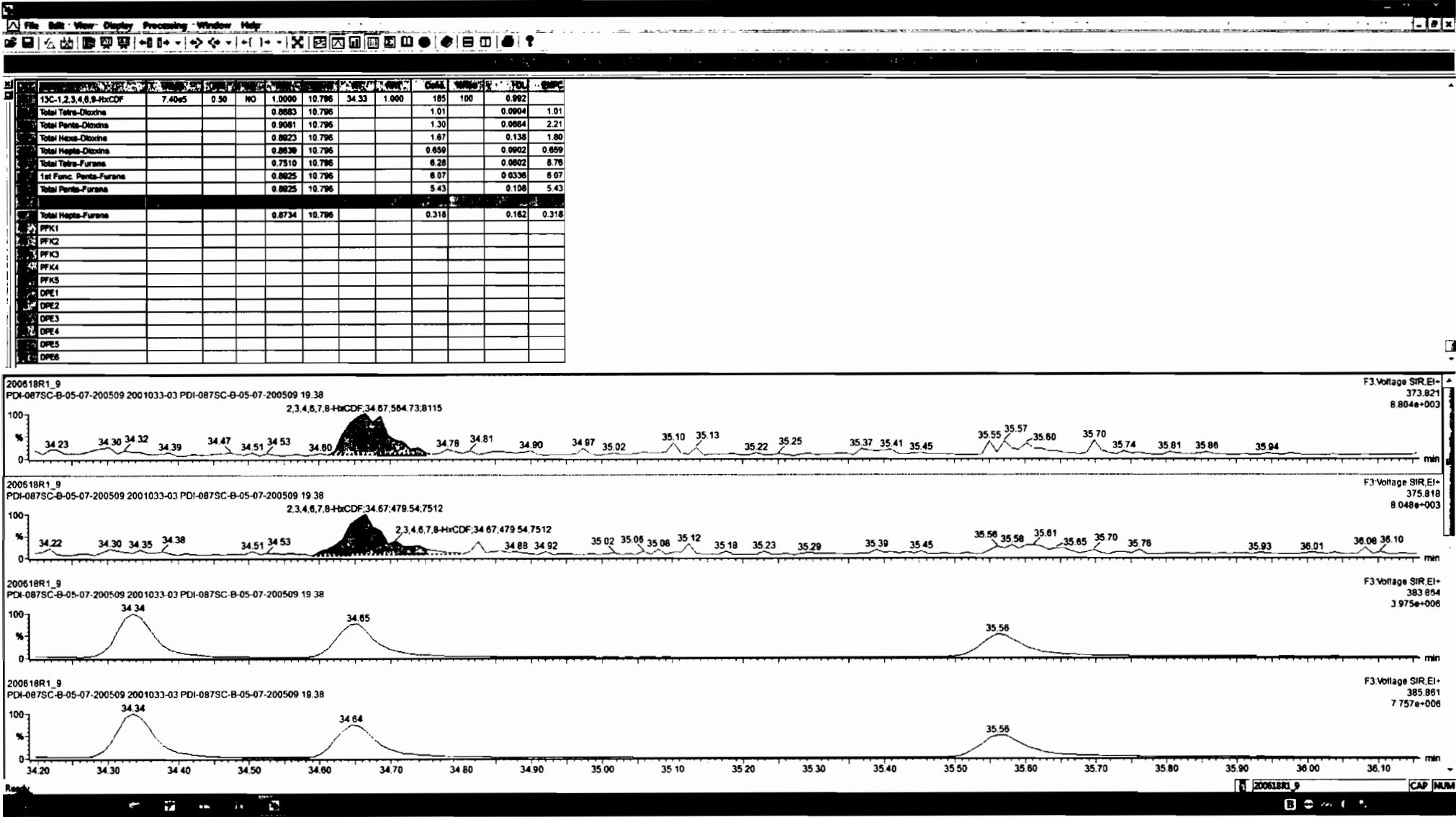
13C-1,2,3,4,7,8-HxCDF



DPE3





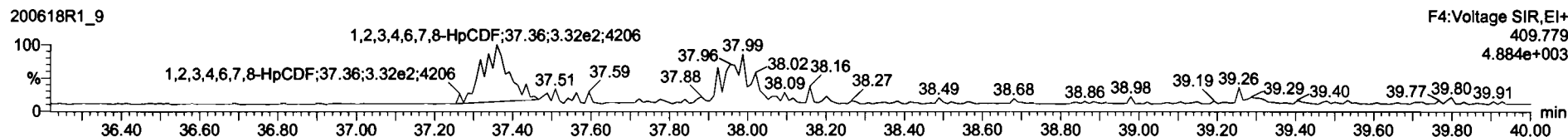
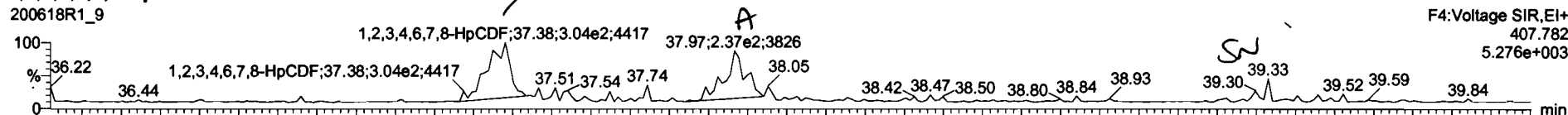


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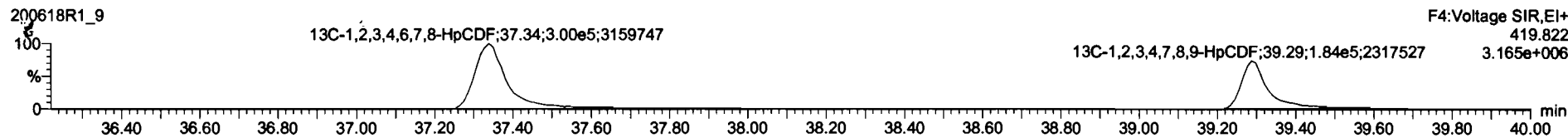
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Name: 200618R1\_9, Date: 18-Jun-2020, Time: 19:16:49, ID: 2001033-03 PDI-087SC-B-05-07-200509 19.38, Description: PDI-087SC-B-05-07-200509

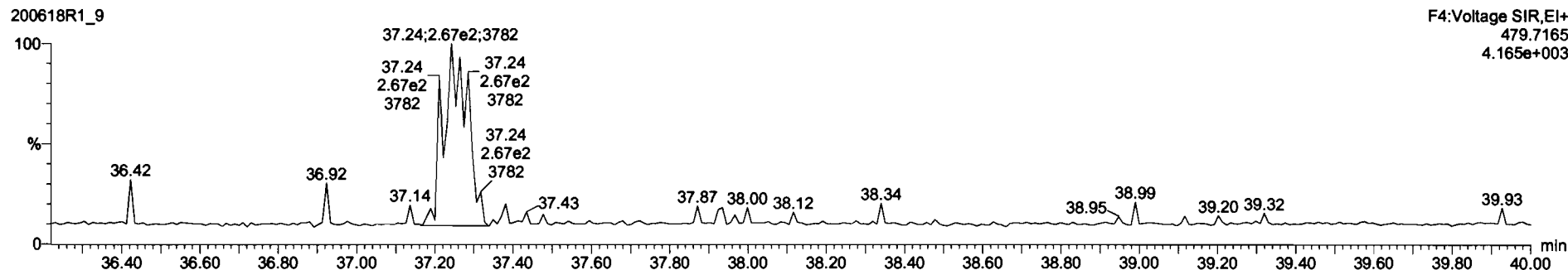
**1,2,3,4,6,7,8-HpCDF**



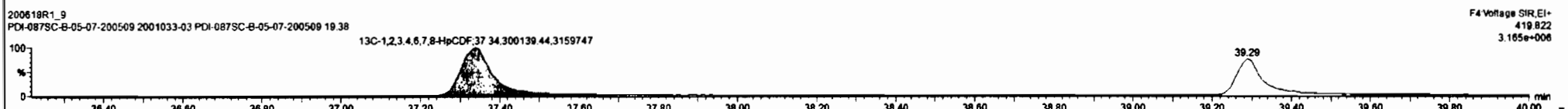
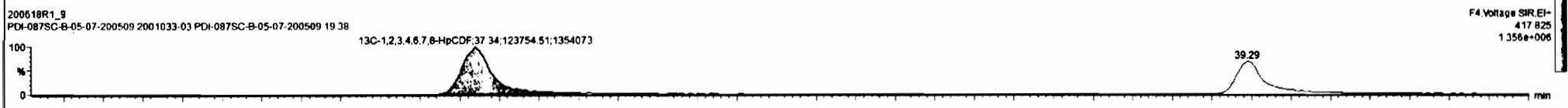
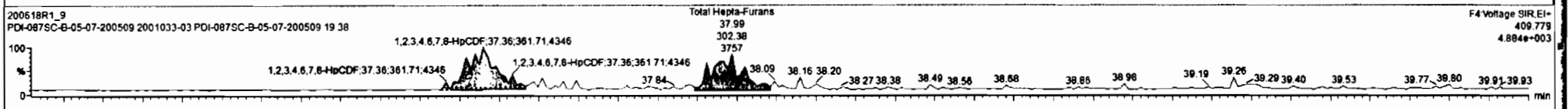
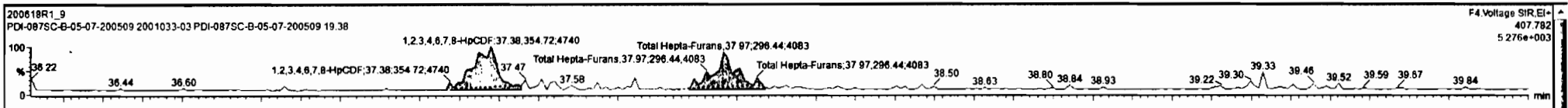
**13C-1,2,3,4,6,7,8-HpCDF**



**DPE4**



Compound	Concentration	Response	Area	Height	Retention	Width	Height	Area	Height	Area	Height	Area	Height
13C-1,2,3,4,6,8-HpCDF	7.40e5	0.50	NO	1.0090	10.796	34.33	1.000	185	100	0.992			
Total Tetra-Dioxins				0.8883	10.796			1.01		0.9904	1.01		
Total Penta-Dioxins				0.9081	10.796			1.30		0.0884	2.21		
Total Hexa-Dioxins				0.8623	10.796			1.87		0.138	1.80		
Total Hepta-Dioxins				0.8639	10.796			0.859		0.0902	0.659		
Total Tetra-Furans				0.7510	10.796			6.28		0.0802	8.76		
1st Func. Penta-Furans				0.8825	10.796			6.07		0.0336	6.07		
Total Penta-Furans				0.8825	10.796			5.43		0.108	5.43		
Total Hexa-Furans				0.9341	10.796			3.86		0.116	3.99		
PFK1													
PFK2													
PFK3													
PFK4													
PFK5													
DPE1													
DPE2													
DPE3													
DPE4													
DPE5													
DPE6													

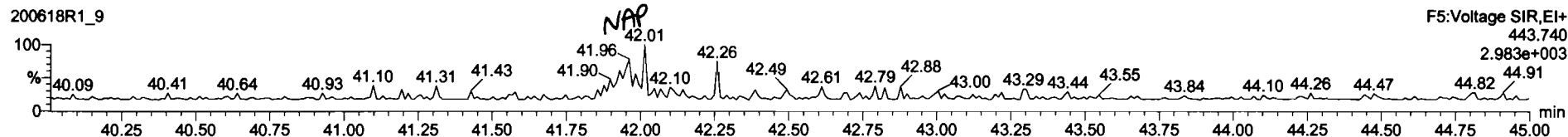
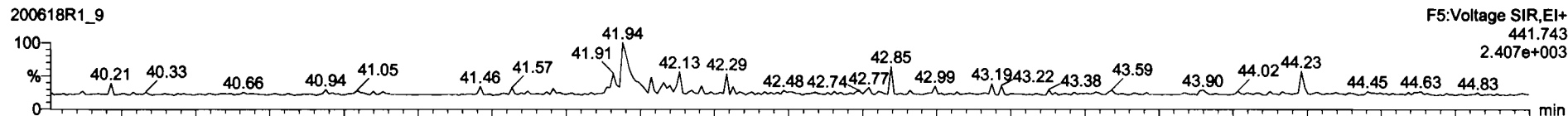


Dataset: Untitled

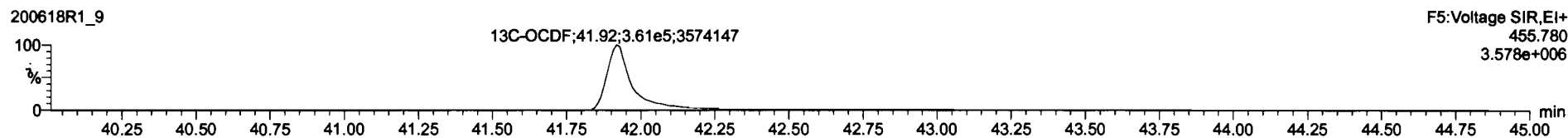
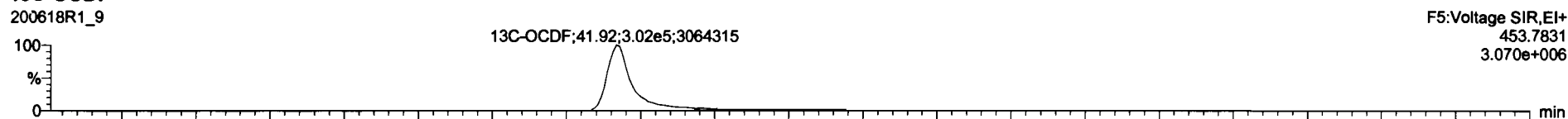
Last Altered: Friday, June 19, 2020 07:32:51 Pacific Daylight Time  
Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1\_9, Date: 18-Jun-2020, Time: 19:16:49, ID: 2001033-03 PDI-087SC-B-05-07-200509 19.38, Description: PDI-087SC-B-05-07-200509

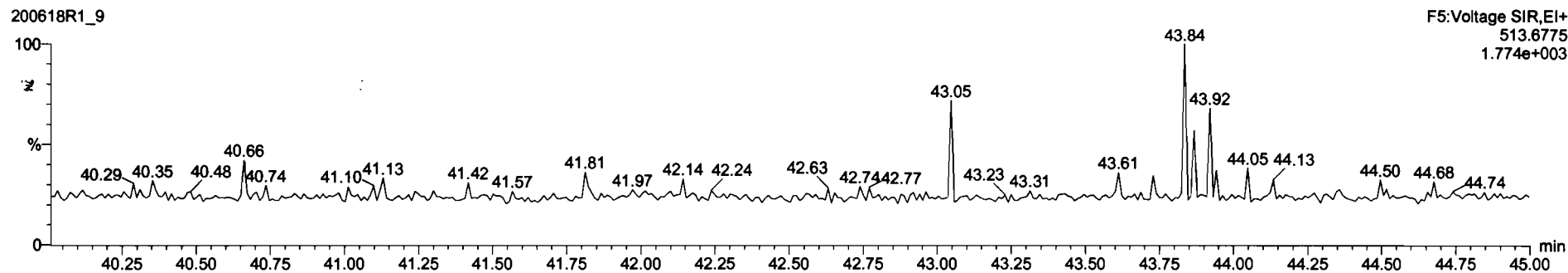
**OCDF**



**13C-OCDF**



**DPE5**

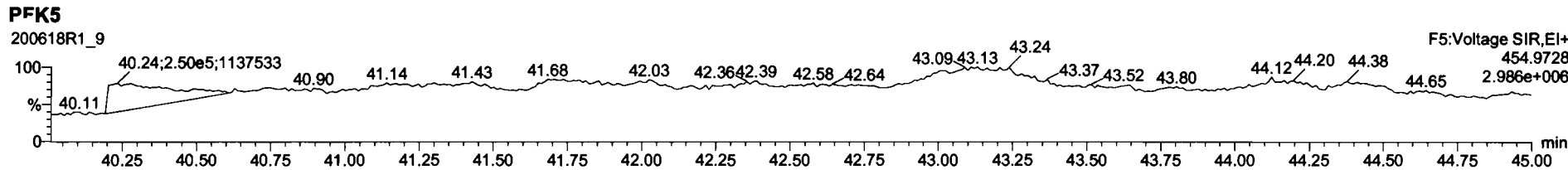
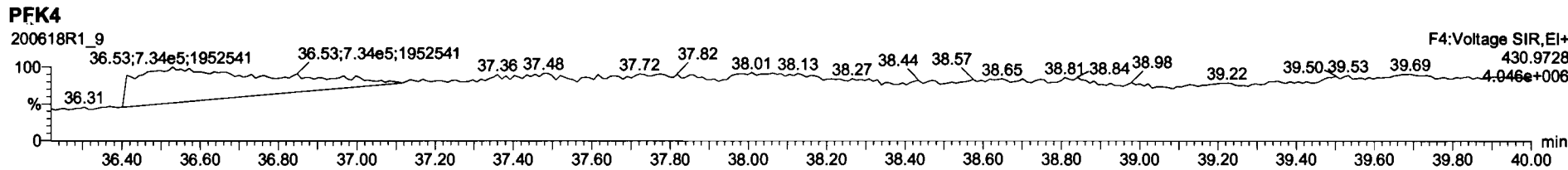
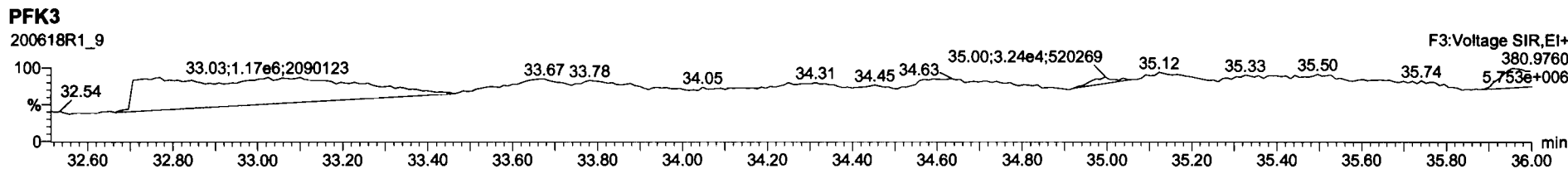
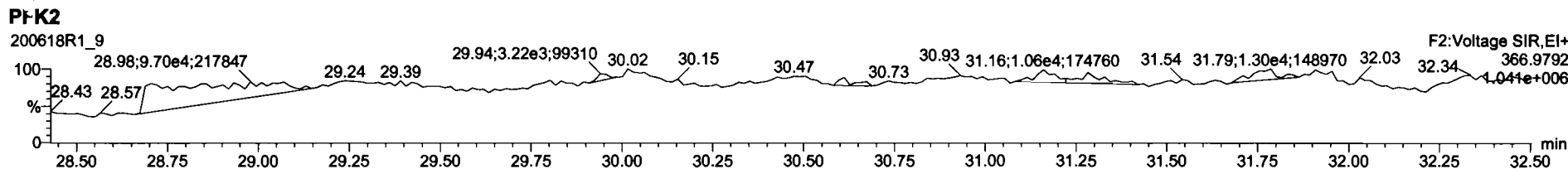
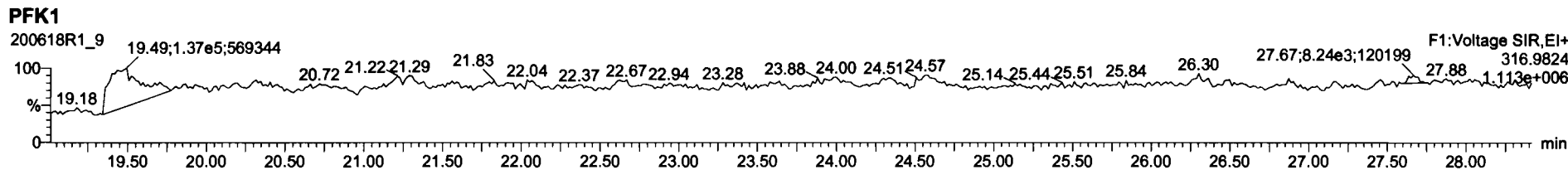




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Last Altered: Friday, June 19, 2020 07:32:51 Pacific Daylight Time  
Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1\_9, Date: 18-Jun-2020, Time: 19:16:49, ID: 2001033-03 PDI-087SC-B-05-07-200509 19.38, Description: PDI-087SC-B-05-07-200509



Dataset: U:\VG12.PRO\Results\200618R1\200618R1-10.qld

Last Altered: Friday, June 19, 2020 11:13:35 Pacific Daylight Time

Printed: Friday, June 19, 2020 11:14:14 Pacific Daylight Time

GRB 06/19/2020

C 707/10/2020

Method: Untitled 01 Jun 2020 11:54:45

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

Name: 200618R1\_10, Date: 18-Jun-2020, Time: 20:03:01, ID: 2001033-04 PDI-089SC-B-00-02-200509 25.42, Description: PDI-089SC-B-00-02-200509

#	Name	Resp	RA	n/y	RRF	w/vol	Prod.RT	RT	Prod.RRT	RRT	Conc	Area	Std	Ratio
1	2,3,7,8-TCDD	2.82e3	0.63	YES	0.888	11.785	26.501	26.48	1.001	1.001	0.68457		0.0815	0.608
2	1,2,3,7,8-PeCDD	1.33e3	0.65	NO	0.908	11.785	31.473	31.45	1.001	1.000	0.46853		0.202	0.469
3	1,2,3,4,7,8-HxCDD	1.49e3	1.15	NO	1.03	11.785	34.835	34.84	1.000	1.000	0.75098		0.376	0.751
4	1,2,3,6,7,8-HxCDD	1.17e4	1.16	NO	0.892	11.785	34.921	34.93	1.000	1.000	4.2327		0.352	4.23
5	1,2,3,7,8,9-HxCDD	4.44e3	1.22	NO	0.887	11.785	35.220	35.23	1.000	1.001	1.8912		0.464	1.89
6	1,2,3,4,6,7,8-HpCDD	2.65e5	1.00	NO	0.864	11.785	38.767	38.77	1.000	1.000	188.21		1.58	188
7	OCDD	2.02e6	0.88	NO	0.914	11.785	41.737	41.75	1.000	1.000	2080.1		2.74	2080
8	2,3,7,8-TCDF	2.91e4	0.72	NO	0.751	11.785	25.612	25.60	1.001	1.001	6.5759	(5.72)	0.114	6.58
9	1,2,3,7,8-PeCDF	4.03e4	1.53	NO	0.893	11.785	30.190	30.17	1.001	1.000	8.9619		0.229	8.96
10	2,3,4,7,8-PeCDF	1.99e4	1.54	NO	0.935	11.785	31.155	31.16	1.000	1.000	4.7313		0.214	4.73
11	1,2,3,4,7,8-HxCDF	4.63e4	1.18	NO	0.884	11.785	33.952	33.96	1.000	1.000	19.534		0.321	19.5
12	1,2,3,6,7,8-HxCDF	1.67e4	1.19	NO	0.889	11.785	34.079	34.08	1.000	1.000	5.6069		0.282	5.61
13	2,3,4,6,7,8-HxCDF	5.77e3	1.21	NO	0.934	11.785	34.690	34.67	1.001	1.000	2.3554		0.366	2.36
14	1,2,3,7,8,9-HxCDF	3.48e3	1.11	NO	0.871	11.785	35.571	35.62	1.000	1.001	1.6870		0.500	1.69
15	1,2,3,4,6,7,8-HpCDF	6.27e4	1.00	NO	0.873	11.785	37.376	37.37	1.001	1.001	38.213		0.878	38.2
16	1,2,3,4,7,8,9-HpCDF	4.85e3	0.97	NO	1.01	11.785	39.299	39.31	1.000	1.000	4.0269		1.06	4.03
17	OCDF	9.75e4	0.85	NO	0.806	11.785	41.929	41.94	1.000	1.000	93.785		0.740	93.8
18	13C-2,3,7,8-TCDD	7.86e5	0.79	NO	1.16	11.785	26.491	26.47	1.026	1.026	132.39	78.0	0.246	
19	13C-1,2,3,7,8-PeCDD	5.30e5	0.62	NO	0.849	11.785	31.674	31.45	1.227	1.219	121.67	71.7	0.346	
20	13C-1,2,3,4,7,8-HxCDD	3.26e5	1.39	NO	0.779	11.785	34.830	34.83	1.014	1.014	97.630	57.5	0.533	
21	13C-1,2,3,6,7,8-HxCDD	5.27e5	1.23	NO	1.02	11.785	34.944	34.92	1.017	1.017	121.03	71.3	0.409	
22	13C-1,2,3,7,8,9-HxCDD	4.49e5	1.29	NO	0.903	11.785	35.215	35.21	1.025	1.025	116.00	68.4	0.460	
23	13C-1,2,3,4,6,7,8-HpCDD	2.77e5	1.05	NO	0.689	11.785	38.739	38.76	1.128	1.128	93.779	55.3	0.643	
24	13C-OCDD	3.61e5	0.89	NO	0.652	11.785	41.761	41.74	1.216	1.215	129.19	38.1	0.663	
25	13C-2,3,7,8-TCDF	9.99e5	0.76	NO	1.06	11.785	25.534	25.59	0.989	0.991	117.01	69.0	0.228	
26	13C-1,2,3,7,8-PeCDF	8.55e5	1.61	NO	0.838	11.785	30.058	30.17	1.165	1.169	126.48	74.5	0.592	
27	13C-2,3,4,7,8-PeCDF	7.62e5	1.60	NO	0.817	11.785	31.011	31.15	1.202	1.207	115.75	68.2	0.608	
28	13C-1,2,3,4,7,8-HxCDF	4.54e5	0.50	NO	1.01	11.785	33.961	33.95	0.989	0.989	105.22	62.0	0.643	
29	13C-1,2,3,6,7,8-HxCDF	5.70e5	0.50	NO	1.17	11.785	34.085	34.07	0.992	0.992	113.96	67.2	0.555	
30	13C-2,3,4,6,7,8-HxCDF	4.45e5	0.48	NO	1.02	11.785	34.659	34.65	1.009	1.009	101.64	59.9	0.634	
31	13C-1,2,3,7,8,9-HxCDF	4.02e5	0.49	NO	0.860	11.785	35.558	35.57	1.035	1.036	109.22	64.4	0.754	

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-10.qld

Last Altered: Friday, June 19, 2020 11:13:35 Pacific Daylight Time

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Name: 200618R1\_10, Date: 18-Jun-2020, Time: 20:03:01, ID: 2001033-04 PDI-089SC-B-00-02-200509 25.42, Description: PDI-089SC-B-00-02-200509

#	Name	Resp	RA	ny	RRF	WVol	Prod.RT	Peak.RT	RRR	RRT	Comp	Area	Conc	UCL
32	13C-1,2,3,4,6,7,8-HpCDF	3.19e5	0.42	NO	0.774	11.785	37.307	37.34	1.086	1.087	95.994	56.6	0.631	
33	13C-1,2,3,4,7,8,9-HpCDF	2.02e5	0.42	NO	0.521	11.785	39.336	39.30	1.145	1.144	90.429	53.3	0.938	
34	13C-OCDF	4.37e5	0.88	NO	0.746	11.785	41.933	41.93	1.221	1.221	136.82	40.3	0.440	
35	37Cl-2,3,7,8-TCDD	3.10e5			1.04	11.785	26.522	26.50	1.028	1.027	58.174	85.7	0.0483	
36	13C-1,2,3,4-TCDD	8.71e5	0.79	NO	1.00	11.785	25.890	25.81	1.000	1.000	169.70	100	0.284	
37	13C-1,2,3,4-TCDF	1.37e6	0.80	NO	1.00	11.785	24.360	24.13	1.000	1.000	169.70	100	0.241	
38	13C-1,2,3,4,6,9-HxCDF	7.27e5	0.50	NO	1.00	11.785	34.420	34.35	1.000	1.000	169.70	100	0.648	
39	Total Tetra-Dioxins				0.888	11.785	24.620		0.000		5.8333		0.0813	6.86
40	Total Penta-Dioxins				0.908	11.785	29.960		0.000		5.3799		0.202	7.89
41	Total Hexa-Dioxins				0.892	11.785	33.635		0.000		48.399		0.410	48.4
42	Total Hepta-Dioxins				0.864	11.785	37.640		0.000		439.78		1.58	440
43	Total Tetra-Furans				0.751	11.785	23.610		0.000		16.016		0.114	30.2
44	1st Func. Penta-Furans				0.893	11.785	27.580		0.000		14.951		0.0315	15.0
45	Total Penta-Furans				0.893	11.785	29.275		0.000		23.024		0.227	35.8
46	Total Hexa-Furans				0.934	11.785	33.555		0.000		72.141		0.343	72.1
47	Total Hepta-Furans				0.873	11.785	37.835		0.000		123.36		1.02	123

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Dataset: U:\VG12.PRO\Results\200618R1\200618R1-10.qld

Last Altered: Friday, June 19, 2020 11:13:35 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: 200618R1\_10, Date: 18-Jun-2020, Time: 20:03:01, ID: 2001033-04 PDI-089SC-B-00-02-200509 25.42, Description: PDI-089SC-B-00-02-200509

**Tetra-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Hy	Resp	Conc	EMPC	DL
Total Tetra-Dioxins	22.46	6.702e4	8.563e4	5.894e3	8.041e3	0.73	NO	1.394e4	3.3877	3.3877	0.0813
Total Tetra-Dioxins	22.92	1.040e4	1.418e4	9.739e2	1.258e3	0.77	NO	2.232e3	0.54255	0.54255	0.0813
Total Tetra-Dioxins	23.40	4.054e3	6.053e3	3.603e2	4.114e2	0.88	NO	7.717e2	0.18760	0.18760	0.0813
Total Tetra-Dioxins	24.33	4.604e3	3.544e3	3.635e2	2.789e2	1.30	YES	0.000e0	0.00000	0.11999	0.0813
Total Tetra-Dioxins	24.57	9.145e3	8.787e3	6.526e2	8.691e2	0.75	NO	1.522e3	0.36991	0.36991	0.0813
Total Tetra-Dioxins	24.78	8.194e3	1.053e4	6.765e2	7.948e2	0.85	NO	1.471e3	0.35768	0.35768	0.0813
Total Tetra-Dioxins	24.99	2.731e3	4.047e3	2.075e2	2.604e2	0.80	NO	4.679e2	0.11375	0.11375	0.0813
Total Tetra-Dioxins	25.24	1.847e3	2.766e3	1.307e2	1.451e2	0.90	YES	0.000e0	0.00000	0.062450	0.0813
Total Tetra-Dioxins	25.44	3.681e3	5.415e3	2.839e2	4.303e2	0.66	NO	7.141e2	0.17361	0.17361	0.0813
Total Tetra-Dioxins	25.81	4.093e3	3.769e3	2.203e2	2.594e2	0.85	NO	0.000e0	0.00000	0.11661	0.0813
Total Tetra-Dioxins	26.23	1.615e4	1.336e4	1.141e3	1.364e3	0.84	NO	2.505e3	0.60904	0.60904	0.0813
Total Tetra-Dioxins	26.35	2.794e3	3.406e3	1.678e2	2.083e2	0.81	NO	3.760e2	0.091417	0.091417	0.0813
2,3,7,8-TCDD	26.48	1.244e4	2.290e4	1.089e3	1.727e3	0.63	YES	2.816e3	0.00000	0.60841	0.0813
Total Tetra-Dioxins	26.83	4.078e3	4.985e3	3.120e2	2.754e2	1.13	YES	0.000e0	0.00000	0.11849	0.0813

**Penta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Hy	Resp	Conc	EMPC	DL
Total Penta-Dioxins	29.25	3.198e4	5.501e4	2.511e3	3.920e3	0.64	NO	6.431e3	2.2664	2.2664	0.202
Total Penta-Dioxins	29.74	1.026e4	1.913e4	6.538e2	1.034e3	0.63	NO	1.688e3	0.59488	0.59488	0.202
Total Penta-Dioxins	30.22	3.620e4	5.160e4	2.117e3	2.884e3	0.73	YES	0.000e0	0.00000	1.6567	0.202
Total Penta-Dioxins	30.40	1.123e4	2.099e4	7.595e2	1.329e3	0.57	NO	2.088e3	0.73598	0.73598	0.202
Total Penta-Dioxins	30.46	1.111e4	1.522e4	7.093e2	9.680e2	0.73	YES	0.000e0	0.00000	0.55606	0.202
Total Penta-Dioxins	30.72	1.371e4	2.592e4	1.398e3	2.331e3	0.60	NO	3.729e3	1.3141	1.3141	0.202
1,2,3,7,8-PeCDD	31.45	1.221e4	1.730e4	5.238e2	8.057e2	0.65	NO	1.329e3	0.46853	0.46853	0.202
Total Penta-Dioxins	31.51	4.954e3	9.662e3	3.286e2	6.355e2	0.52	YES	0.000e0	0.00000	0.29964	0.202

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-10.qld

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Name: 200618R1\_10, Date: 18-Jun-2020, Time: 20:03:01, ID: 2001033-04 PDI-089SC-B-00-02-200509 25.42, Description: PDI-089SC-B-00-02-200509

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NY	Resp	Conc	EMPC	DL
Total Hexa-Dioxins	33.33	3.689e5	2.901e5	2.098e4	1.670e4	1.26	NO	3.768e4	16.507	16.507	0.410
Total Hexa-Dioxins	33.90	4.203e4	3.802e4	2.757e3	2.178e3	1.27	NO	4.935e3	2.1622	2.1622	0.410
Total Hexa-Dioxins	34.15	3.349e5	2.608e5	2.491e4	1.991e4	1.25	NO	4.482e4	19.636	19.636	0.410
Total Hexa-Dioxins	34.24	3.930e4	3.023e4	2.828e3	2.291e3	1.23	NO	5.119e3	2.2429	2.2429	0.410
1,2,3,4,7,8-HxCDD	34.84	1.322e4	1.290e4	7.964e2	6.945e2	1.15	NO	1.491e3	0.75098	0.75098	0.376
1,2,3,6,7,8-HxCDD	34.93	8.548e4	6.978e4	6.292e3	5.447e3	1.16	NO	1.174e4	4.2327	4.2327	0.352
Total Hexa-Dioxins	35.11	1.861e4	1.625e4	1.303e3	9.242e2	1.41	NO	2.227e3	0.97583	0.97583	0.410
1,2,3,7,8,9-HxCDD	35.23	3.440e4	3.225e4	2.440e3	1.996e3	1.22	NO	4.436e3	1.8912	1.8912	0.464

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NY	Resp	Conc	EMPC	DL
Total Hepta-Dioxins	37.75	1.837e6	1.780e6	1.749e5	1.800e5	0.97	NO	3.548e5	251.57	251.57	1.58
1,2,3,4,6,7,8-HpCDD	38.77	1.425e6	1.402e6	1.324e5	1.330e5	1.00	NO	2.654e5	188.21	188.21	1.58

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Name: 200618R1\_10, Date: 18-Jun-2020, Time: 20:03:01, ID: 2001033-04 PDI-089SC-B-00-02-200509 25.42, Description: PDI-089SC-B-00-02-200509

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	PCnt	EMPC	DU
Total Tetra-Furans	20.33	7.134e3	6.479e3	4.145e2	4.773e2	0.87	NO	8.917e2	0.20167	0.20167	0.114
Total Tetra-Furans	20.86	1.838e4	1.785e4	1.263e3	1.521e3	0.83	NO	2.784e3	0.62951	0.62951	0.114
Total Tetra-Furans	21.49	6.793e4	9.919e4	6.392e3	8.633e3	0.74	NO	1.502e4	3.3977	3.3977	0.114
Total Tetra-Furans	21.92	4.654e3	6.895e3	3.948e2	4.978e2	0.79	NO	0.000e0	0.00000	0.20186	0.114
Total Tetra-Furans	22.07	1.002e4	1.232e4	1.407e3	1.842e3	0.76	NO	0.000e0	0.00000	0.73485	0.114
Total Tetra-Furans	22.46	5.746e4	7.083e4	5.767e3	7.221e3	0.80	NO	1.299e4	2.9372	2.9372	0.114
Total Tetra-Furans	22.94	3.875e4	4.650e4	3.595e3	4.828e3	0.74	NO	0.000e0	0.00000	1.9048	0.114
Total Tetra-Furans	23.10	4.937e3	7.255e3	3.977e2	5.737e2	0.69	NO	0.000e0	0.00000	0.21969	0.114
Total Tetra-Furans	23.31	9.250e3	1.260e4	8.935e2	1.056e3	0.85	NO	0.000e0	0.00000	0.44076	0.114
Total Tetra-Furans	23.71	2.851e3	3.831e3	1.634e2	2.186e2	0.75	NO	0.000e0	0.00000	0.086382	0.114
Total Tetra-Furans	23.89	4.812e3	5.860e3	3.802e2	5.451e2	0.70	NO	0.000e0	0.00000	0.20927	0.114
Total Tetra-Furans	24.03	3.054e4	4.248e4	2.784e3	3.585e3	0.78	NO	0.000e0	0.00000	1.4404	0.114
Total Tetra-Furans	24.13	2.583e4	3.134e4	2.109e3	2.530e3	0.83	NO	0.000e0	0.00000	1.0491	0.114
Total Tetra-Furans	24.67	1.315e5	1.851e5	1.154e4	1.546e4	0.75	NO	0.000e0	0.00000	6.1055	0.114
Total Tetra-Furans	24.84	4.208e3	5.340e3	3.096e2	4.099e2	0.76	NO	0.000e0	0.00000	0.16270	0.114
Total Tetra-Furans	24.96	5.840e3	9.267e3	6.414e2	8.107e2	0.79	NO	0.000e0	0.00000	0.32839	0.114
Total Tetra-Furans	25.15	2.883e3	5.262e3	2.766e2	3.776e2	0.73	NO	6.542e2	0.14793	0.14793	0.114
Total Tetra-Furans	25.39	5.222e3	5.288e3	3.564e2	4.050e2	0.88	NO	0.000e0	0.00000	0.17219	0.114
Total Tetra-Furans	25.50	2.253e4	3.258e4	1.516e3	2.155e3	0.70	NO	0.000e0	0.00000	0.83021	0.114
2,3,7,8-TCDF	25.60	1.594e5	2.125e5	1.221e4	1.687e4	0.72	NO	2.908e4	6.5759	6.5759	0.114
Total Tetra-Furans	25.69	9.784e3	1.670e4	5.834e2	8.442e2	0.69	NO	0.000e0	0.00000	0.32285	0.114
Total Tetra-Furans	25.97	1.403e4	1.637e4	1.124e3	1.442e3	0.78	NO	2.566e3	0.58032	0.58032	0.114
Total Tetra-Furans	27.13	5.396e3	7.456e3	4.007e2	5.470e2	0.73	NO	9.477e2	0.21432	0.21432	0.114
Total Tetra-Furans	27.31	8.932e3	1.005e4	4.663e2	5.631e2	0.83	NO	1.029e3	0.23278	0.23278	0.114
Total Tetra-Furans	27.59	2.941e4	3.764e4	2.210e3	2.650e3	0.83	NO	4.860e3	1.0991	1.0991	0.114

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	PCnt	EMPC	DU
1st Func. Penta-Furans	27.59	6.231e5	3.658e5	3.949e4	2.408e4	1.64	NO	6.357e4	14.951	14.951	0.0315

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**Penta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	W	Resp	Area	EMPC	SI
Total Penta-Furans	29.06	2.605e4	1.421e4	1.339e3	8.794e2	1.52	NO	2.218e3	0.52168	0.52168	0.227
Total Penta-Furans	29.19	3.234e5	2.014e5	2.315e4	1.481e4	1.56	NO	0.000e0	0.00000	8.9276	0.227
Total Penta-Furans	29.24	7.024e4	3.926e4	2.819e3	1.781e3	1.58	NO	0.000e0	0.00000	1.0820	0.227
Total Penta-Furans	29.77	1.100e5	6.903e4	6.198e3	3.842e3	1.61	NO	0.000e0	0.00000	2.3613	0.227
Total Penta-Furans	29.82	2.842e4	1.543e4	9.678e2	6.613e2	1.46	NO	0.000e0	0.00000	0.38315	0.227
Total Penta-Furans	29.99	5.987e4	3.178e4	2.953e3	2.032e3	1.45	NO	4.985e3	1.1724	1.1724	0.227
1,2,3,7,8-PeCDF	30.17	4.053e5	2.612e5	2.438e4	1.590e4	1.53	NO	4.028e4	8.9619	8.9619	0.229
Total Penta-Furans	30.25	4.807e4	3.206e4	2.244e3	1.531e3	1.47	NO	3.775e3	0.88792	0.88792	0.227
Total Penta-Furans	30.44	1.642e5	1.197e5	1.175e4	7.151e3	1.64	NO	1.890e4	4.4458	4.4458	0.227
2,3,4,7,8-PeCDF	31.16	2.139e5	1.565e5	1.203e4	7.835e3	1.54	NO	1.986e4	4.7313	4.7313	0.214
Total Penta-Furans	31.19	1.677e5	1.050e5	5.259e3	3.348e3	1.57	NO	8.607e3	2.0242	2.0242	0.227
Total Penta-Furans	32.08	1.259e4	8.415e3	7.264e2	4.586e2	1.58	NO	1.185e3	0.27872	0.27872	0.227

**Hexa-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	W	Resp	Area	EMPC	SI
Total Hexa-Furans	32.78	1.215e5	1.058e5	6.667e3	5.465e3	1.22	NO	1.213e4	4.7089	4.7089	0.343
Total Hexa-Furans	32.95	3.607e5	3.112e5	2.138e4	1.737e4	1.23	NO	3.875e4	15.040	15.040	0.343
Total Hexa-Furans	33.49	5.050e5	4.261e5	2.937e4	2.419e4	1.21	NO	5.356e4	20.791	20.791	0.343
Total Hexa-Furans	33.85	1.116e4	9.211e3	4.408e2	4.044e2	1.09	NO	8.452e2	0.32809	0.32809	0.343
1,2,3,4,7,8-HxCDF	33.96	4.117e5	3.441e5	2.506e4	2.120e4	1.18	NO	4.626e4	19.534	19.534	0.321
1,2,3,6,7,8-HxCDF	34.08	1.431e5	1.285e5	9.113e3	7.635e3	1.19	NO	1.675e4	5.6069	5.6069	0.282
Total Hexa-Furans	34.13	4.385e4	2.824e4	1.510e3	1.274e3	1.18	NO	2.784e3	1.0807	1.0807	0.343
Total Hexa-Furans	34.36	1.373e4	1.323e4	6.973e2	5.452e2	1.28	NO	1.242e3	0.48228	0.48228	0.343
2,3,4,6,7,8-HxCDF	34.67	4.864e4	3.815e4	3.160e3	2.612e3	1.21	NO	5.772e3	2.3554	2.3554	0.366
1,2,3,7,8,9-HxCDF	35.62	3.242e4	2.768e4	1.830e3	1.654e3	1.11	NO	3.483e3	1.6870	1.6870	0.500
Total Hexa-Furans	35.65	2.471e4	1.989e4	7.632e2	5.964e2	1.28	NO	1.360e3	0.52775	0.52775	0.343

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Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NO	Resp	Comp	Emp	D
1,2,3,4,6,7,8-HpCDF	37.37	3.573e5	3.689e5	3.138e4	3.130e4	1.00	NO	6.268e4	38.213	38.213	0.878
Total Hepta-Furans	37.98	5.864e5	6.066e5	5.350e4	5.519e4	0.97	NO	1.087e5	81.125	81.125	1.02
1,2,3,4,7,8,9-HpCDF	39.31	3.538e4	3.343e4	2.384e3	2.469e3	0.97	NO	4.854e3	4.0269	4.0269	1.06



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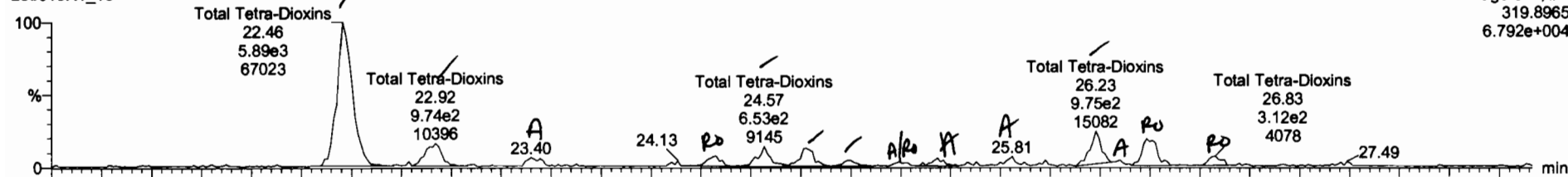
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1\_10, Date: 18-Jun-2020, Time: 20:03:01, ID: 2001033-04 PDI-089SC-B-00-02-200509 25.42, Description: PDI-089SC-B-00-02-200509

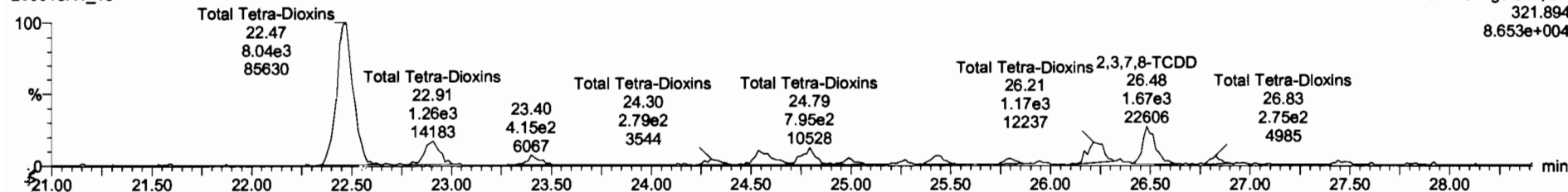
2,3,7,8-TCDD

200618R1\_10



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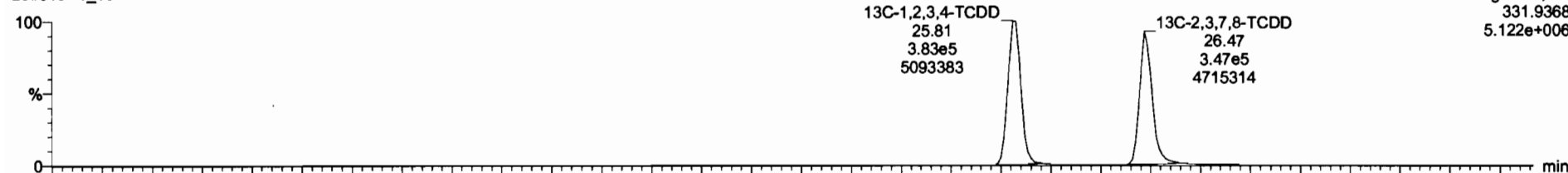
200618R1\_10



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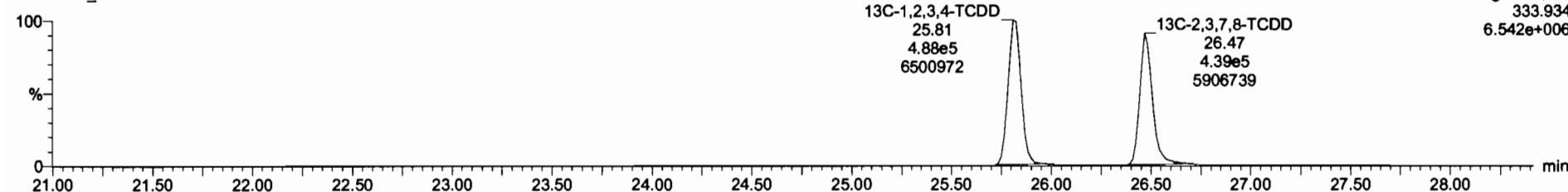
13C-2,3,7,8-TCDD

200618R1\_10



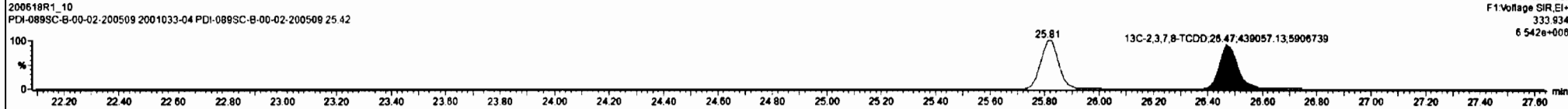
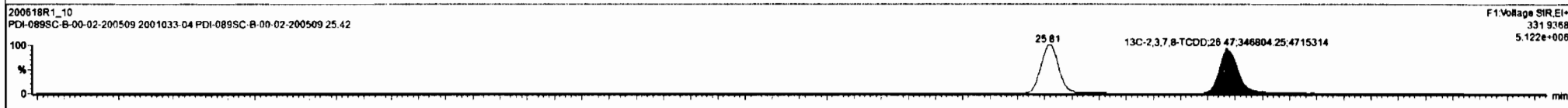
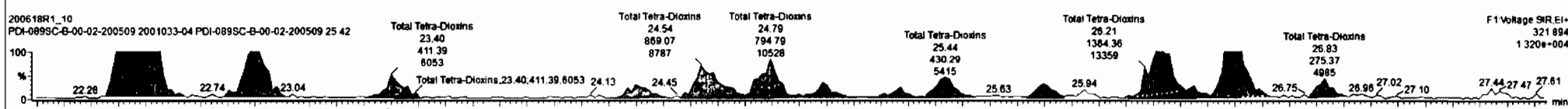
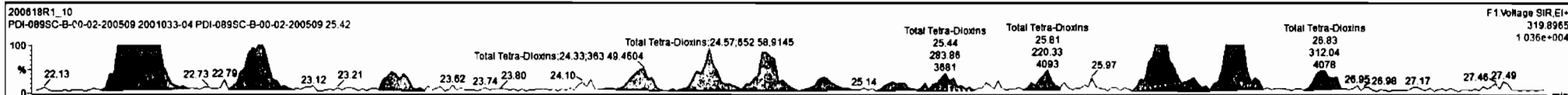
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5.122e+006

200618R1\_10



F1:Voltage SIR,EI+  
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6.542e+006

Sample	Concn	Unit	Comp	Area	Area%	Concn	Area	Area%	DL	EMPC
13C-1,2,3,4,6,8-HxCDF	7.27e5	0.50	NO	1.0000	11.785	34.35	1.000	170	100	0.548
Total Penta-Dioxins				0.9081	11.785			4.30	0.202	7.58
Total Hexa-Dioxins				0.8623	11.785			46.9	0.410	48.4
Total Hepta-Dioxins				0.8639	11.785			440	1.58	442
Total Tetra-Furans				0.7510	11.785			26.1	0.114	28.2
1st Func. Penta-Furans				0.8925	11.785			15.0	0.0315	15.0
Total Penta-Furans				0.8925	11.785			35.4	0.227	35.7
Total Hexa-Furans				0.9341	11.785			72.1	0.343	72.4
Total Hepta-Furans				0.8734	11.785			130	1.02	134
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



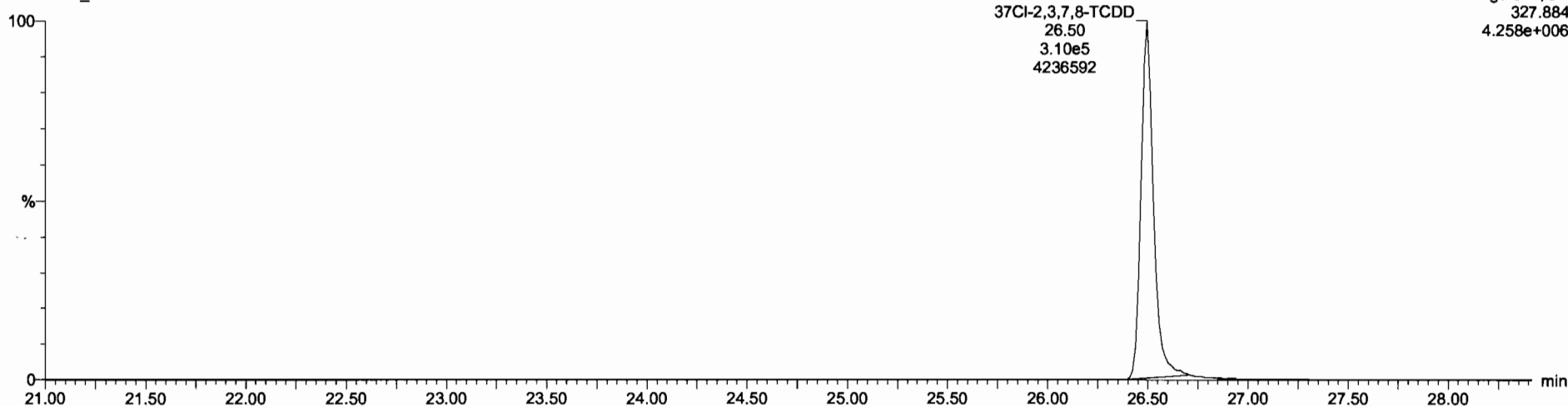
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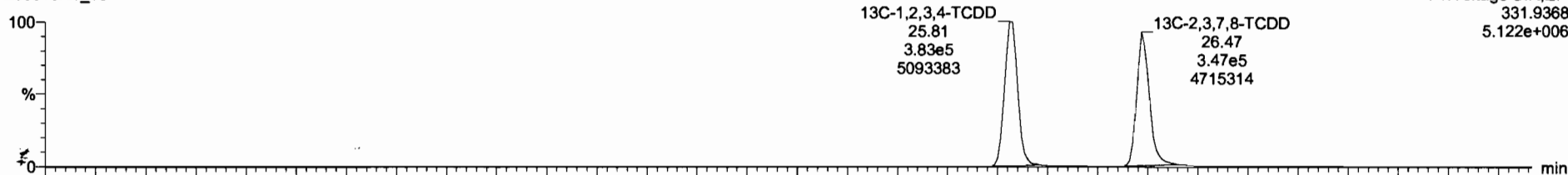
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200618R1\_10

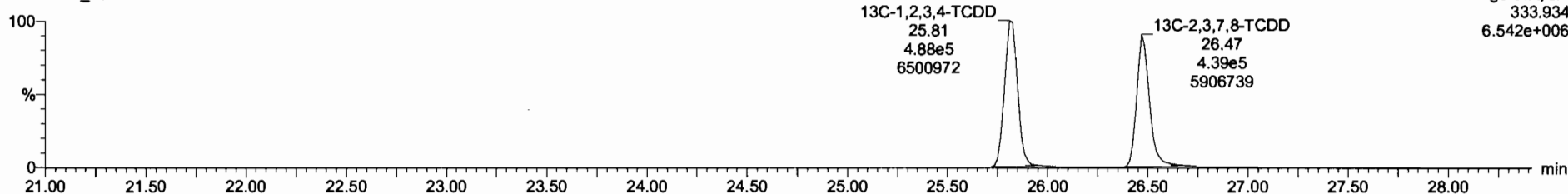


**13C-1,2,3,4-TCDD**

200618R1\_10



200618R1\_10



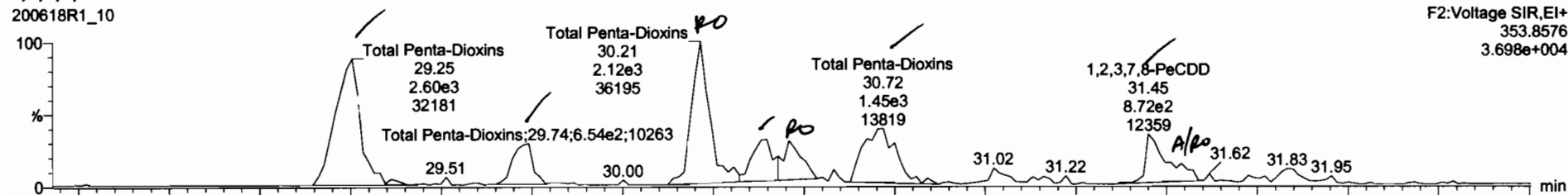
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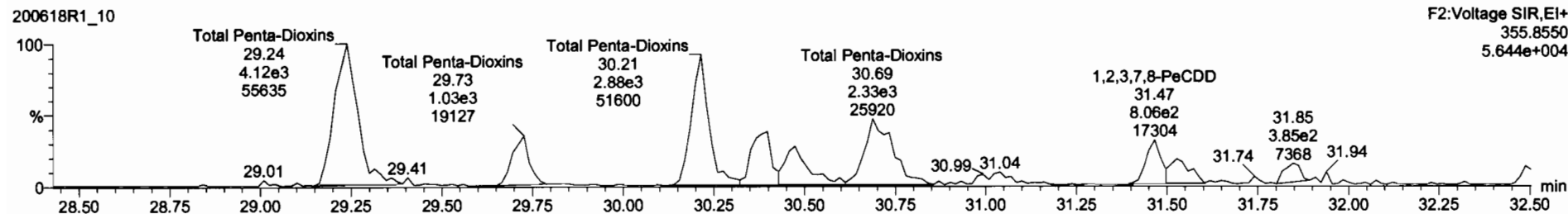
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1,2,3,7,8-PeCDD

200618R1\_10

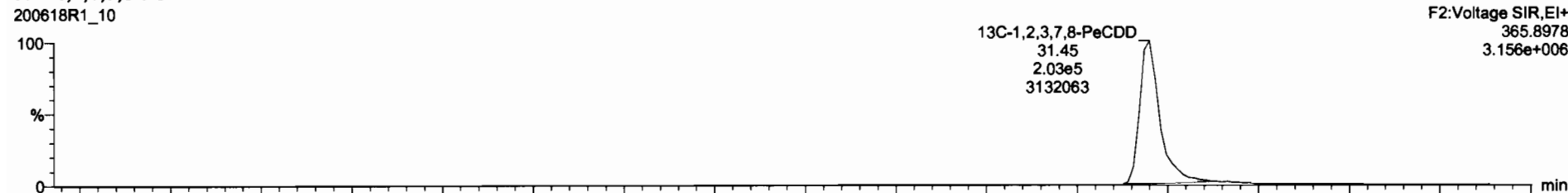


200618R1\_10

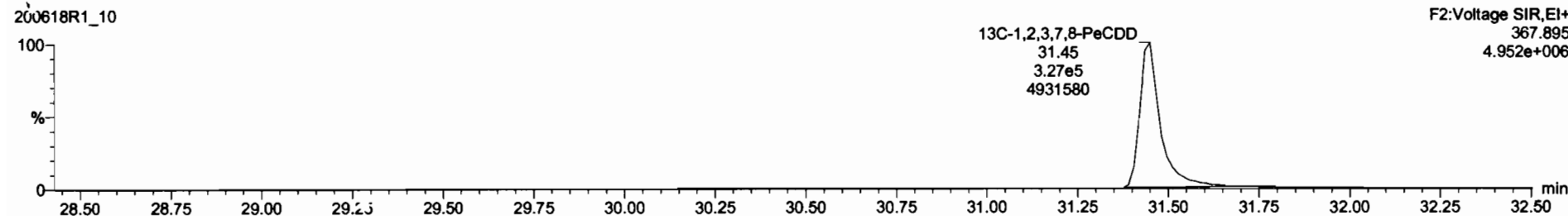


13C-1,2,3,7,8-PeCDD

200618R1\_10



200618R1\_10





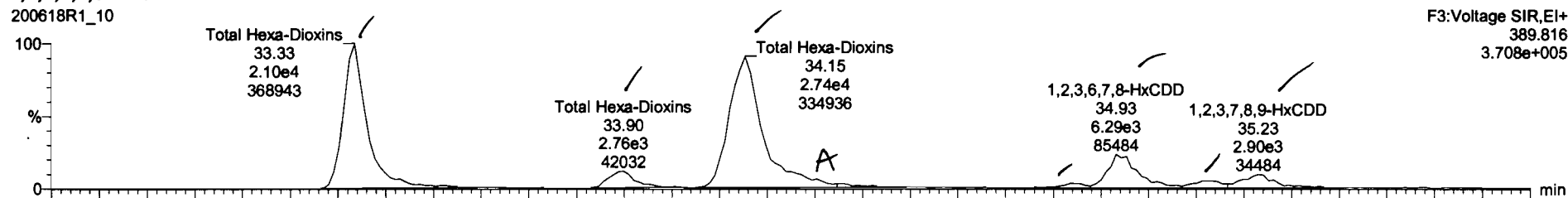
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

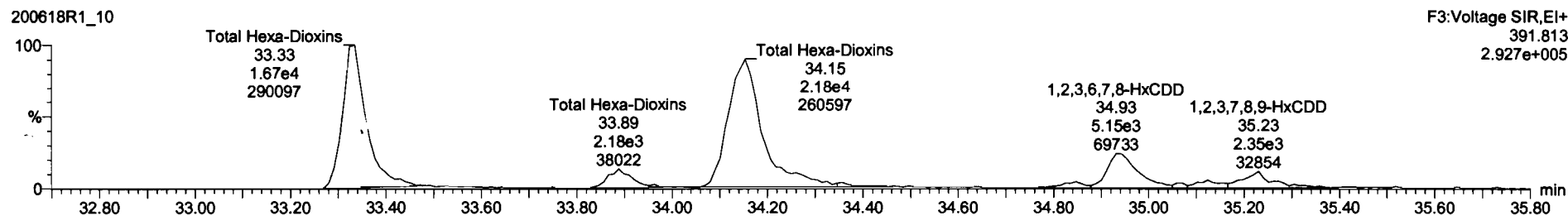
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1,2,3,4,7,8-HxCDD

200618R1\_10

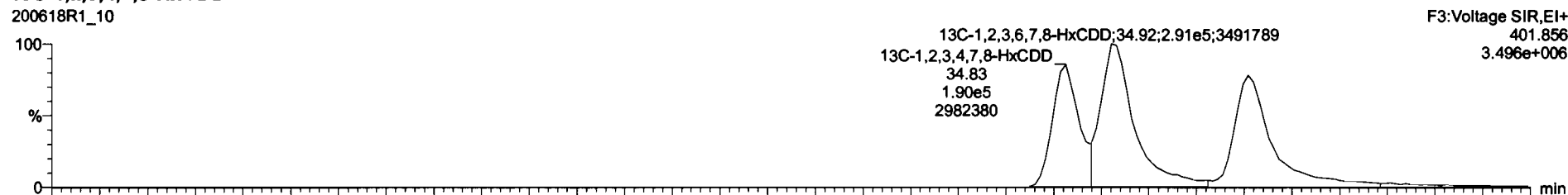


200618R1\_10

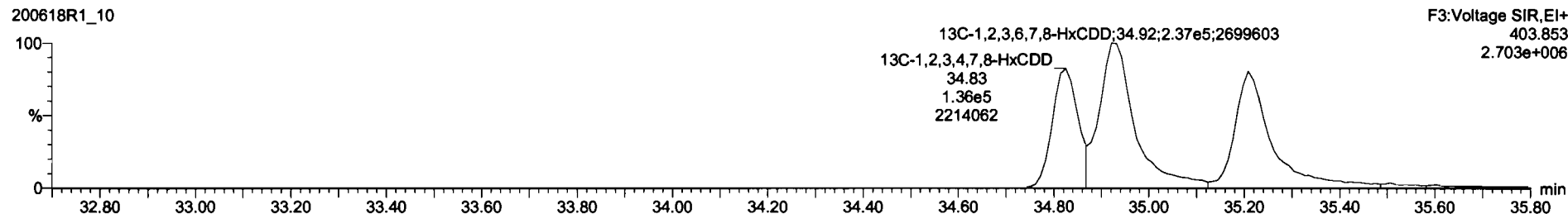


13C-1,2,3,4,7,8-HxCDD

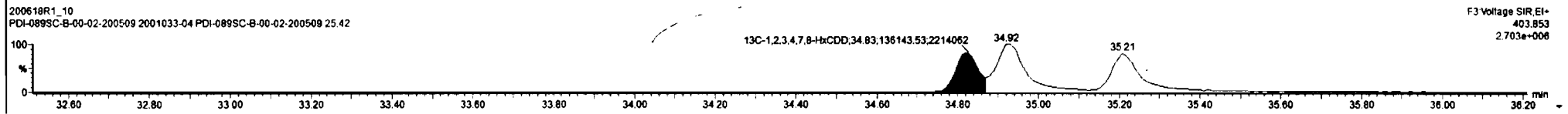
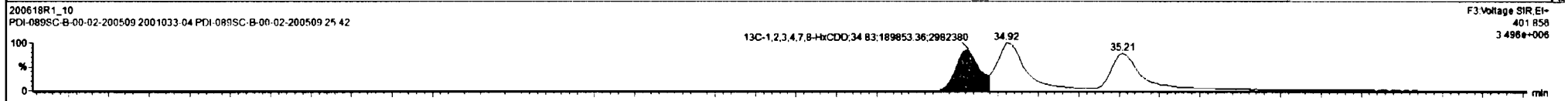
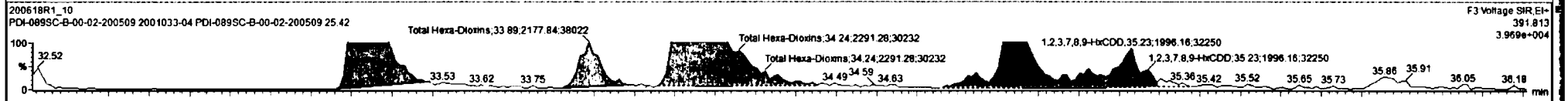
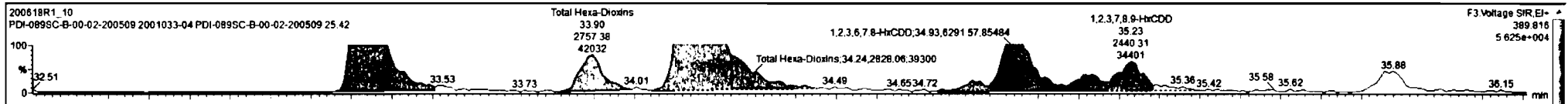
200618R1\_10



200618R1\_10



	Conc.	Unit	DL	EMPD
13C-1,2,3,4,6,8-HxCDF	7.27e5	0.50	NO	1.0000
		11.785	34.35	1.000
			170	100
			0.648	
Total Tetra-Dioxine	0.8883	11.785		5.83
				0.0813
				6.86
Total Penta-Dioxine	0.9061	11.785		5.38
				0.202
				7.89
Total Hepta-Dioxine	0.8839	11.785		440
				1.58
				442
Total Tetra-Furane	0.7510	11.785		26.1
				0.114
				29.2
1st Func. Penta-Furane	0.8625	11.785		15.0
				0.0315
				15.0
Total Penta-Furane	0.8625	11.785		35.4
				0.227
				35.7
Total Hexa-Furane	0.9341	11.785		72.1
				0.343
				72.4
Total Hepta-Furane	0.8734	11.785		130
				1.02
				134
PFK1				
PFK2				
PFK3				
PFK4				
PFK5				
DPE1				
DPE2				
DPE3				
DPE4				
DPE5				
DPE6				



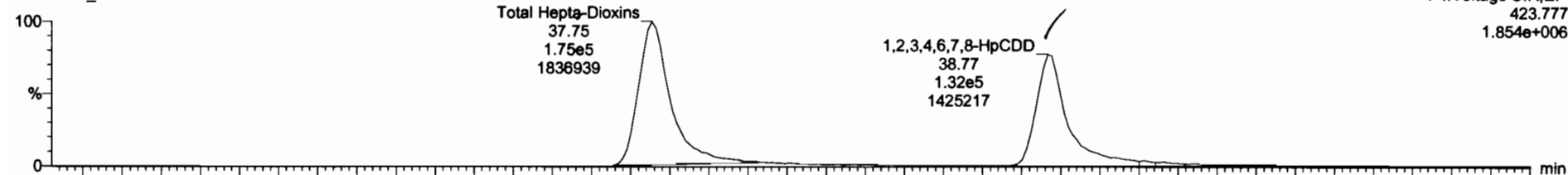
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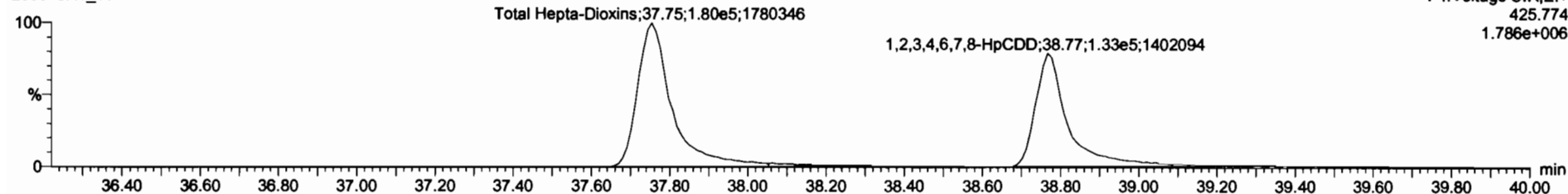
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**1,2,3,4,6,7,8-HpCDD**

200618R1\_10

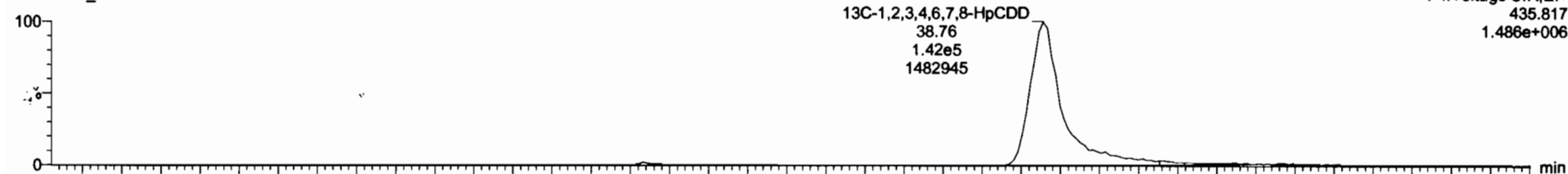


200618R1\_10

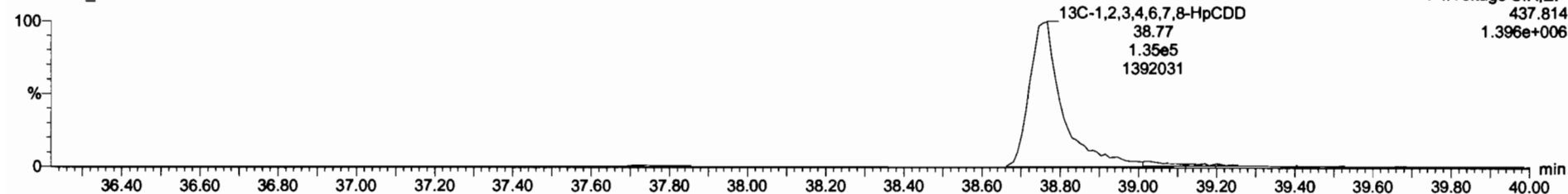


**13C-1,2,3,4,6,7,8-HpCDD**

200618R1\_10



200618R1\_10





Dataset: Untitled

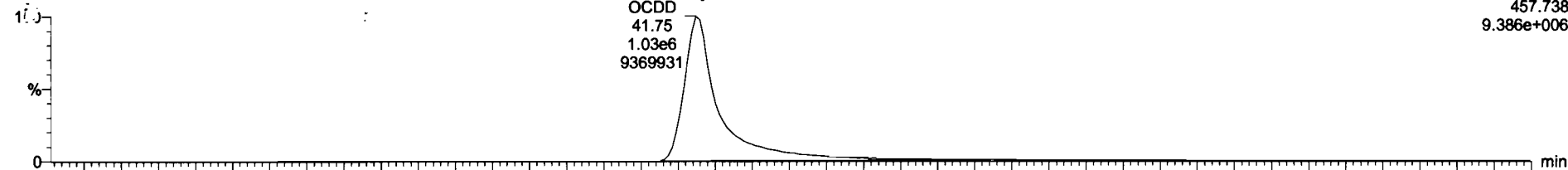
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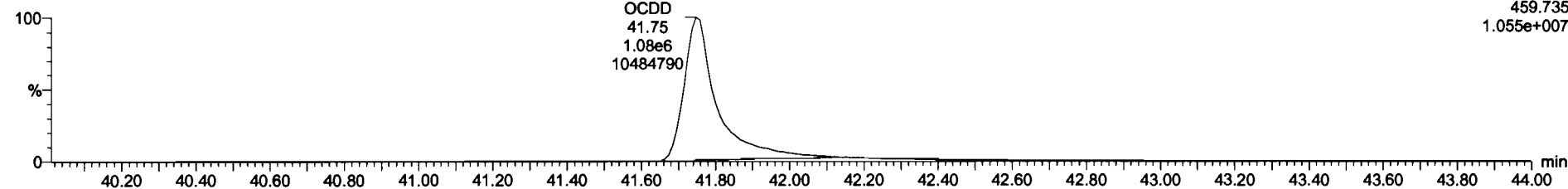
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**OCDD**

200618R1\_10

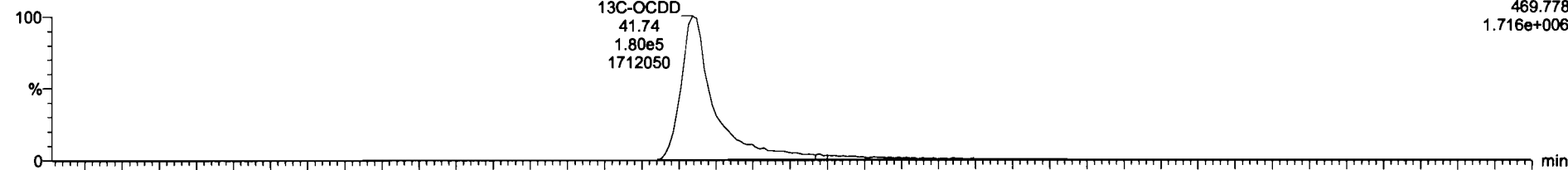


200618R1\_10

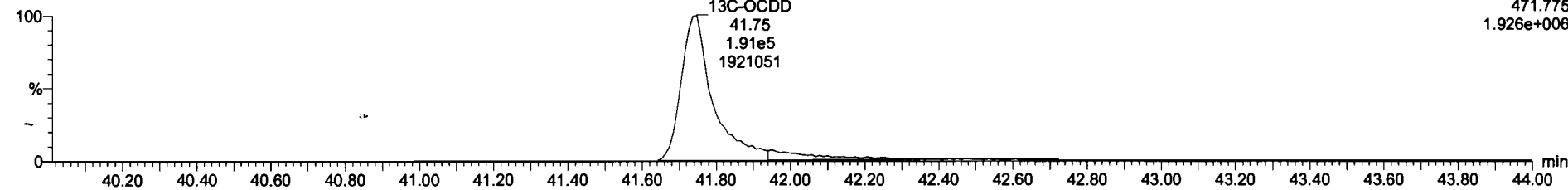


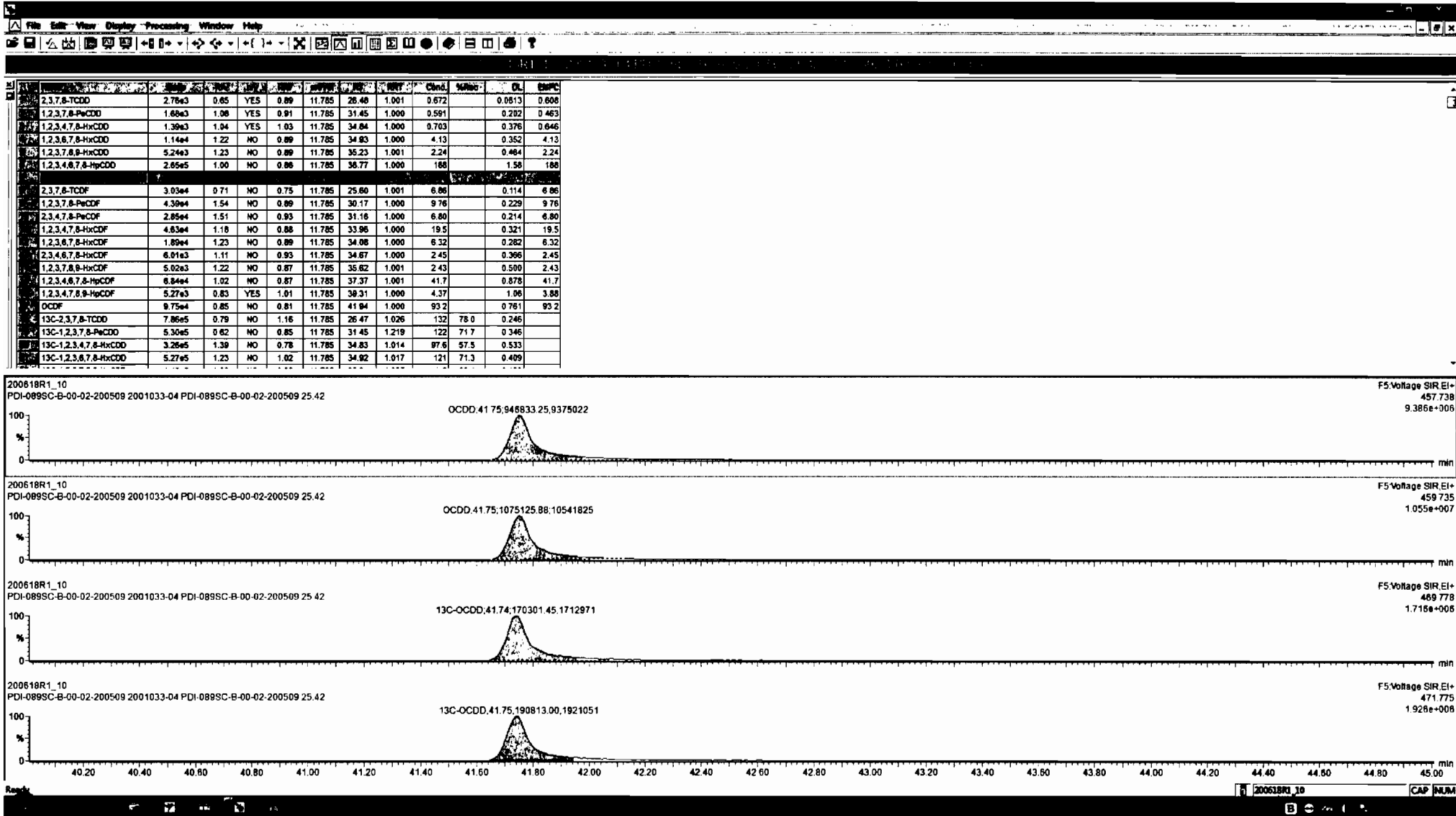
**13C-OCDD**

200618R1\_10



200618R1\_10



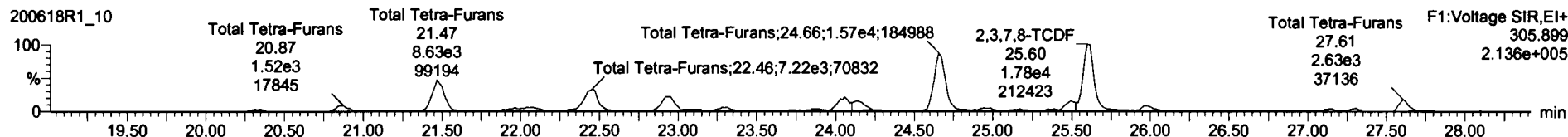
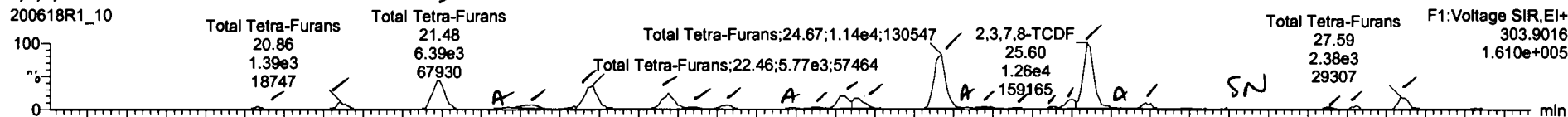


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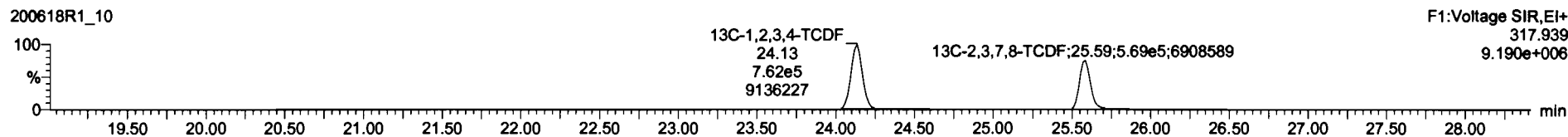
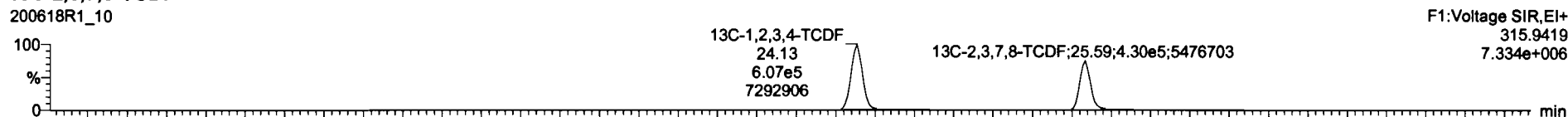
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Name: 200618R1\_10, Date: 18-Jun-2020, Time: 20:03:01, ID: 2001033-04 PDI-089SC-B-00-02-200509 25.42, Description: PDI-089SC-B-00-02-200509

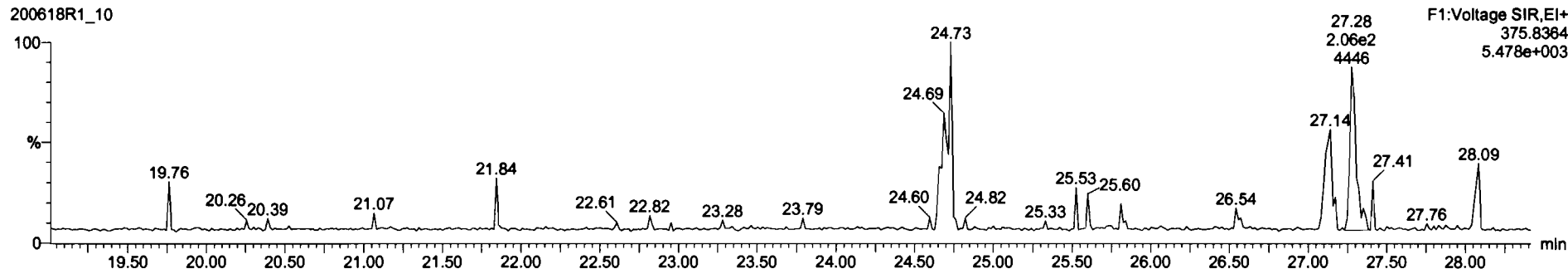
**2,3,7,8-TCDF**



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



**DPE1**







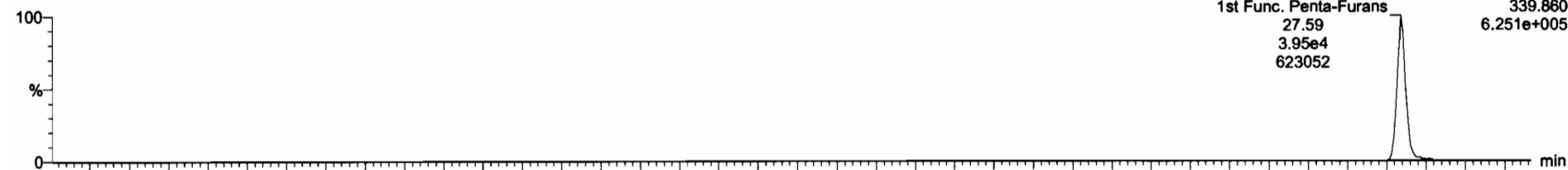
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

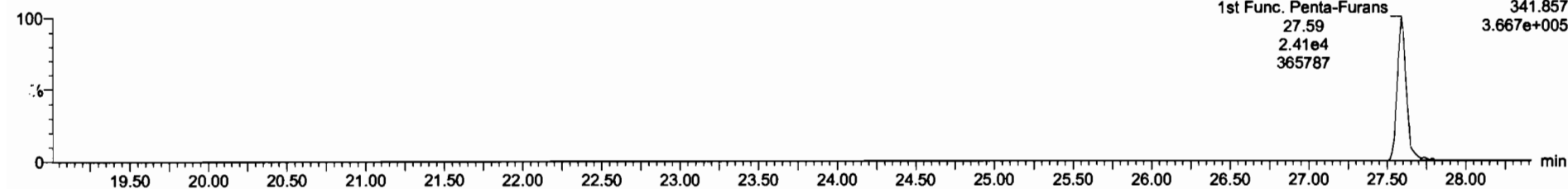
Name: 200618R1\_10, Date: 18-Jun-2020, Time: 20:03:01, ID: 2001033-04 PDI-089SC-B-00-02-200509 25.42, Description: PDI-089SC-B-00-02-200509

1st Func. Penta-Furans

200618R1\_10

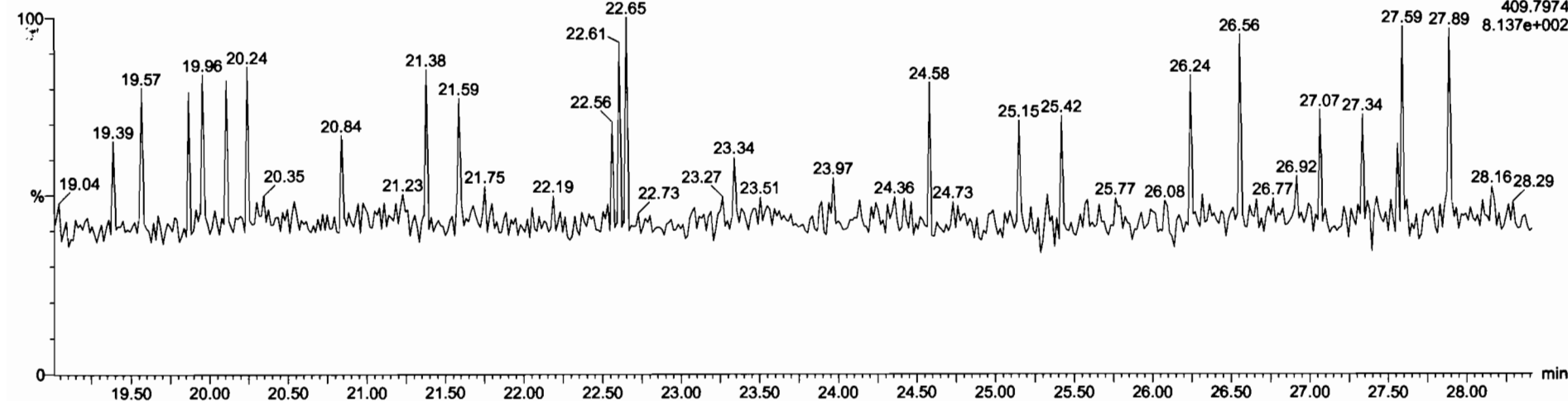


200618R1\_10



DPE6

200618R1\_10



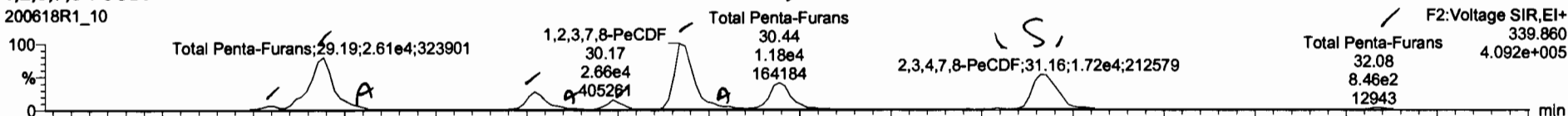
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

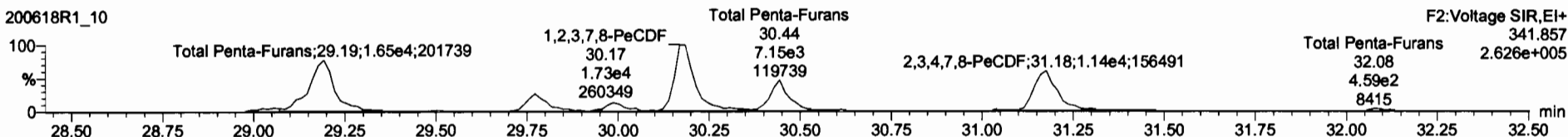
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**1,2,3,7,8-PeCDF**

200618R1\_10

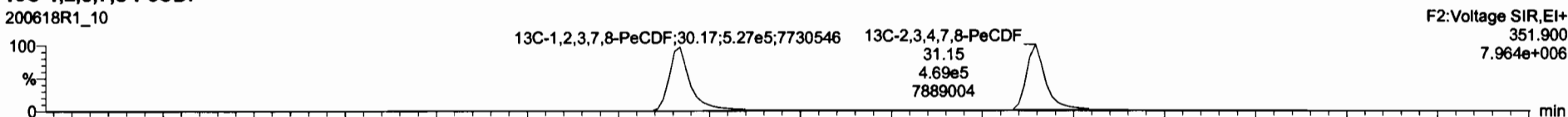


200618R1\_10

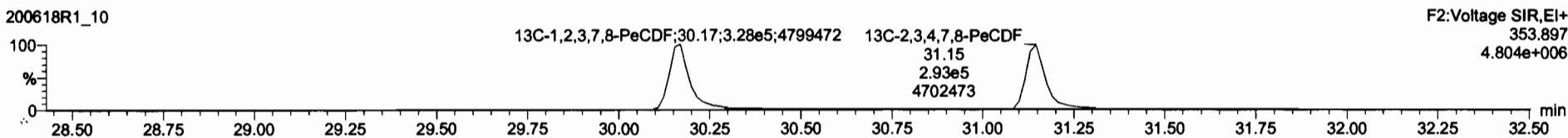


**13C-1,2,3,7,8-PeCDF**

200618R1\_10

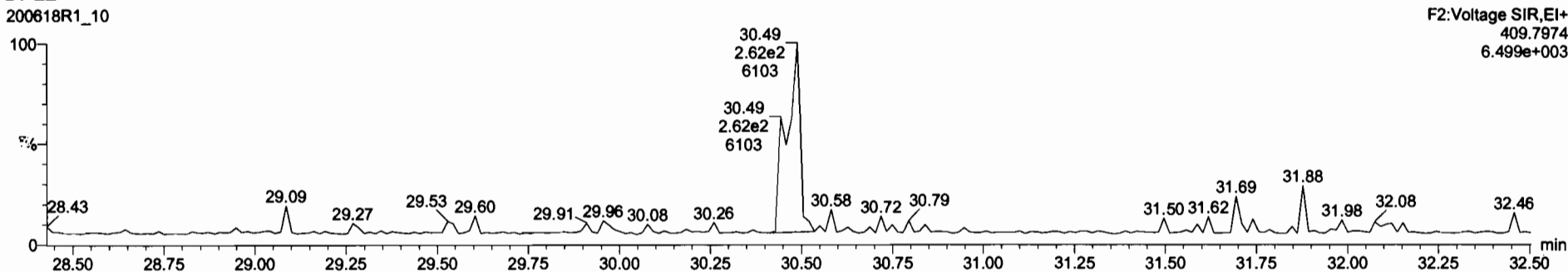


200618R1\_10

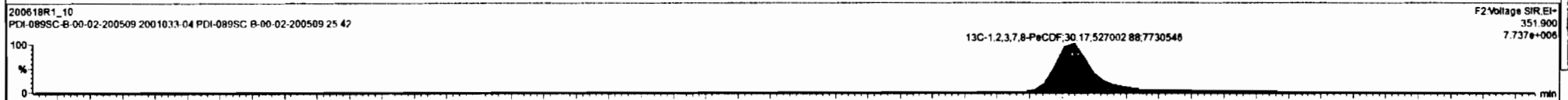
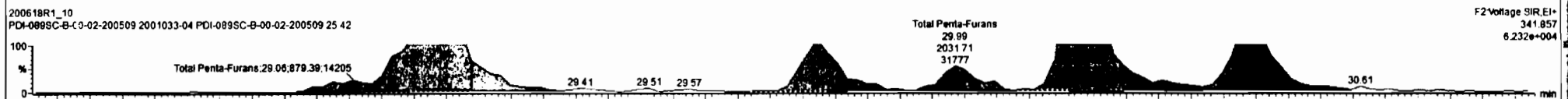
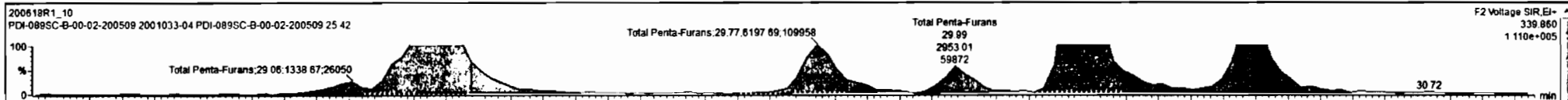


**DPE2**

200618R1\_10

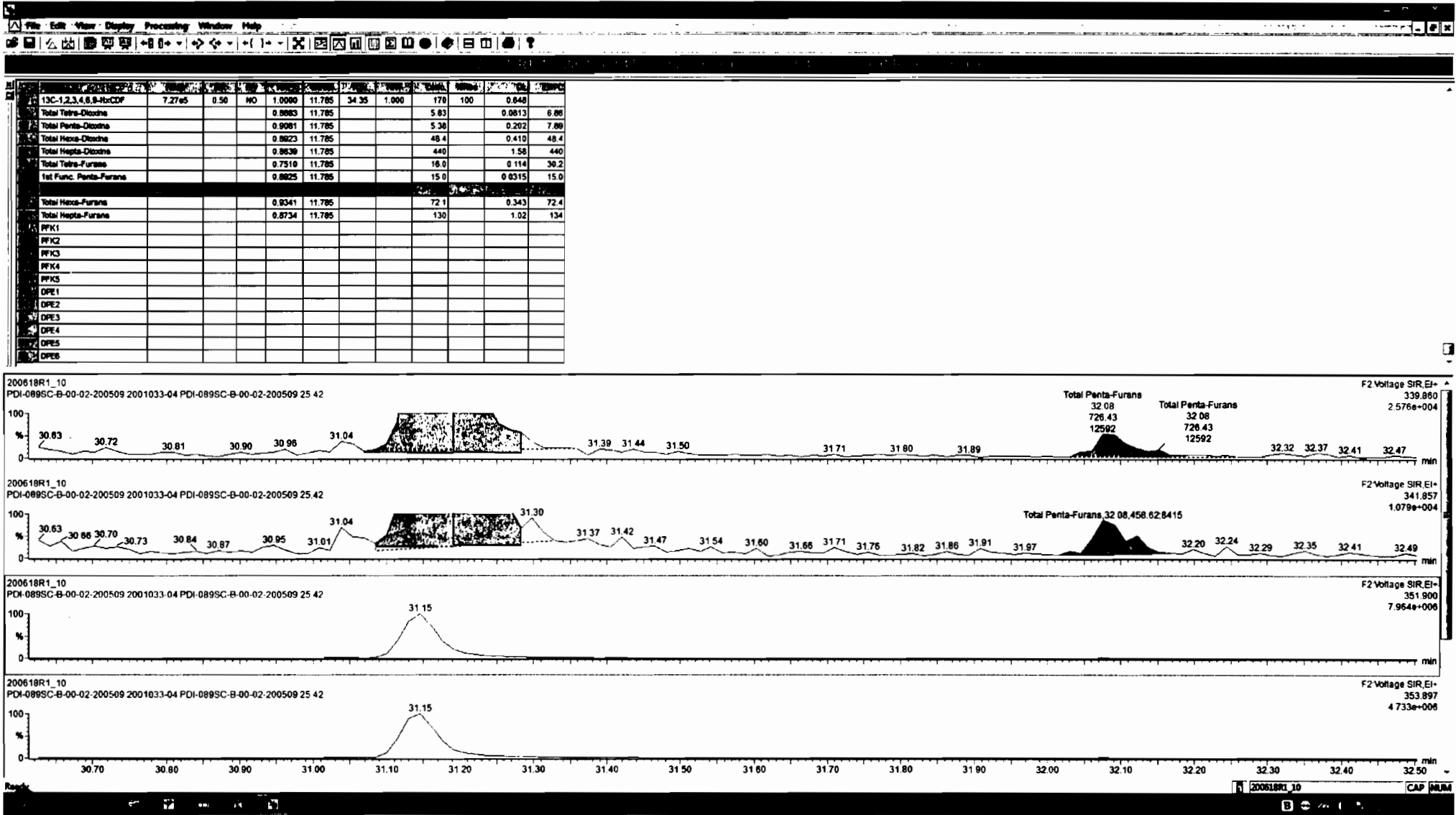


Comp	Wt%	Area	Height	Area%	Height%	Count	Time	Area	Height	Area%	Height%
13C-1,2,3,4,6,8-HxCDF	7.27e5	0.50	NO	1.0000	11.785	34.35	1.000	170	100	0.848	
Total Tetra-Dioxine				0.8883	11.785			5.83		0.0813	6.86
Total Penta-Dioxine				0.9061	11.785			5.38		0.202	7.89
Total Hexa-Dioxine				0.8823	11.785			48.4		0.410	48.4
Total Hepta-Dioxine				0.8839	11.785			440		1.58	440
Total Tetra-Furans				0.7510	11.785			16.0		0.114	30.2
1st Func. Penta-Furans				0.8825	11.785			15.0		0.0315	15.0
Total Hexa-Furans				0.9341	11.785			72.1		0.343	72.4
Total Hepta-Furans				0.8734	11.785			130		1.02	134
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
DPE6											







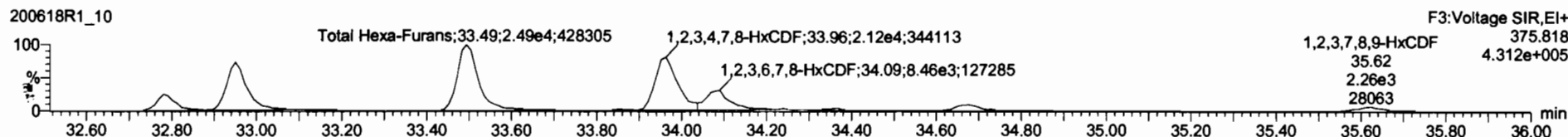
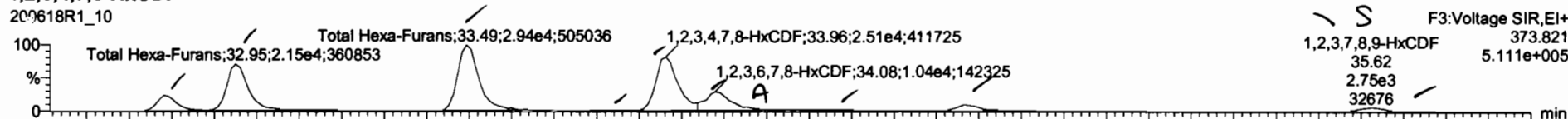


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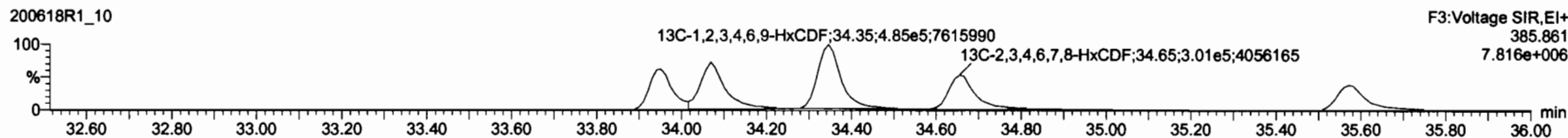
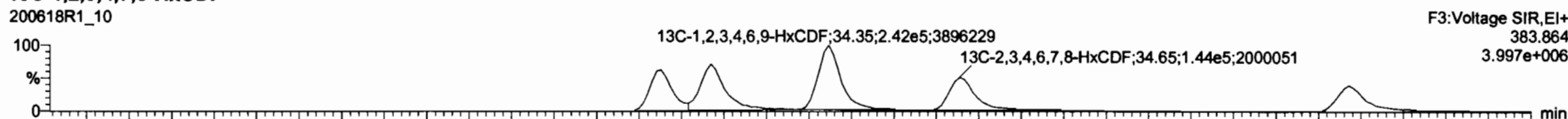
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1\_10, Date: 18-Jun-2020, Time: 20:03:01, ID: 2001033-04 PDI-089SC-B-00-02-200509 25.42, Description: PDI-089SC-B-00-02-200509

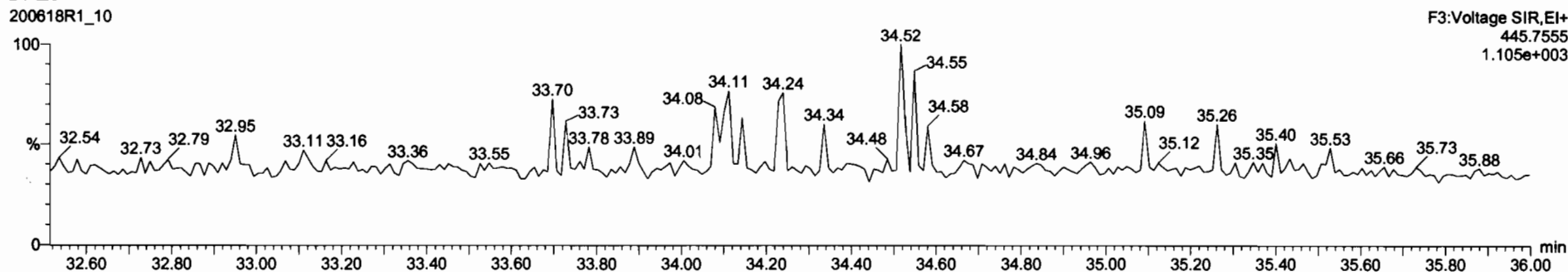
**1,2,3,4,7,8-HxCDF**

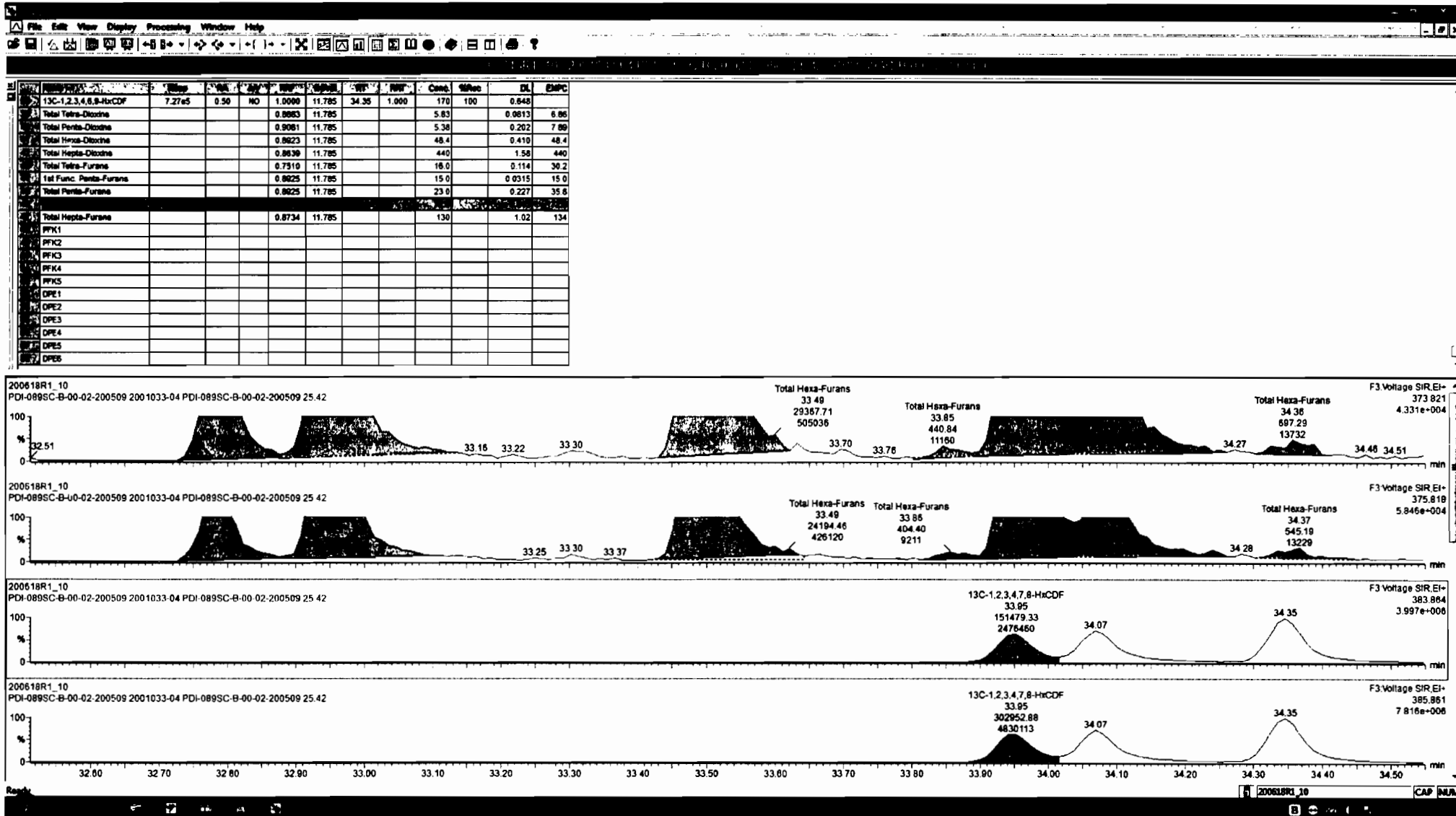


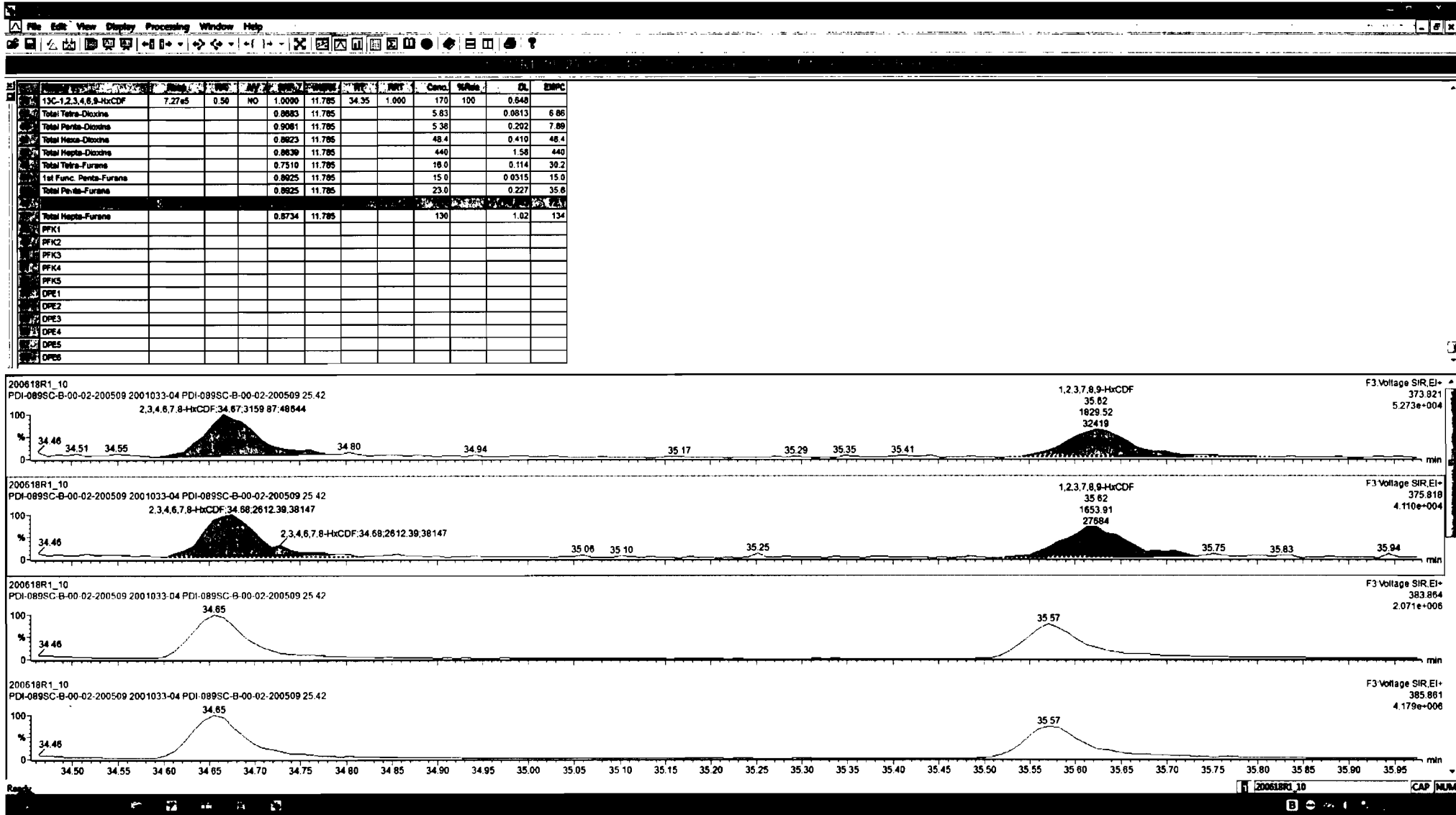
**13C-1,2,3,4,7,8-HxCDF**



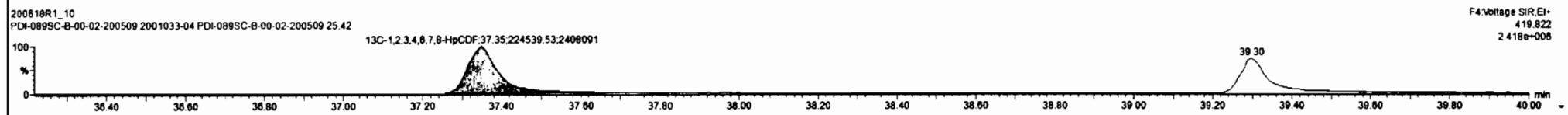
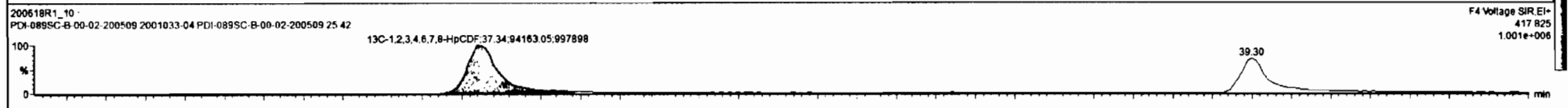
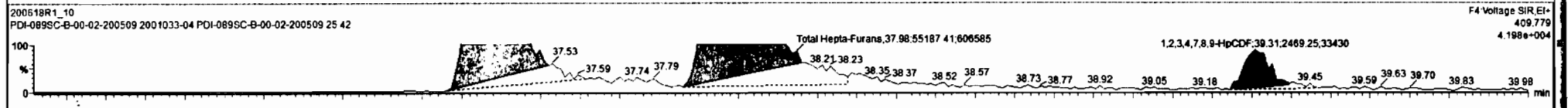
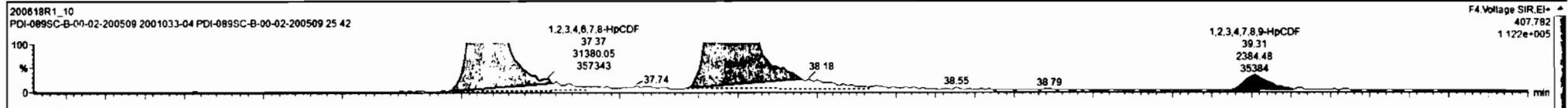
**DPE3**







Comp	Area	Height	W	Area%	Height%	Conc	Wt%	DL	EMPC	
13C-1,2,3,4,6,8-HxCDF	7.27e5	0.50	NO	1.0000	11.785	34.35	1.000	170	100	0.648
Total Tetra-Dioxins				0.8863	11.785			5.83	0.0813	8.88
Total Penta-Dioxins				0.9061	11.785			5.36	0.202	7.89
Total Hexa-Dioxins				0.8823	11.785			48.4	0.410	48.4
Total Hepta-Dioxins				0.8838	11.785			440	1.58	440
Total Tetra-Furans				0.7510	11.785			18.0	0.114	30.2
1st Func. Penta-Furans				0.8825	11.785			15.0	0.0315	15.0
Total Penta-Furans				0.8825	11.785			23.0	0.227	35.8
Total Hexa-Furans				0.9341	11.785			72.1	0.343	72.1
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										

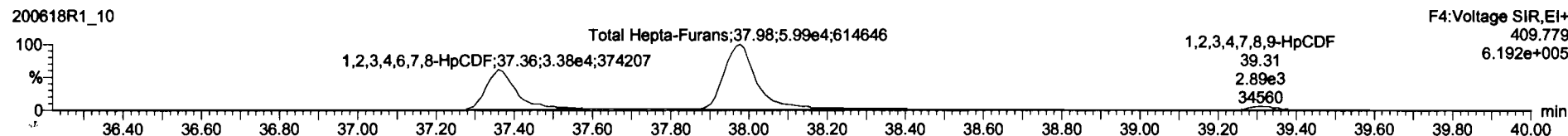
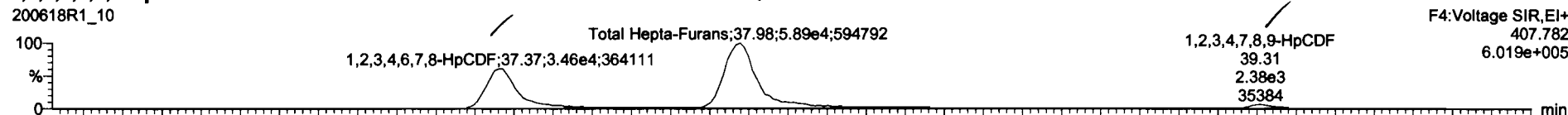


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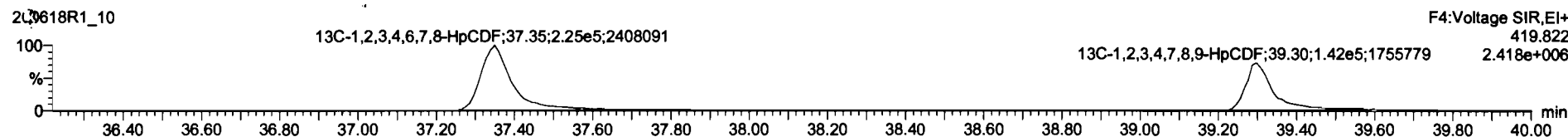
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1\_10, Date: 18-Jun-2020, Time: 20:03:01, ID: 2001033-04 PDI-089SC-B-00-02-200509 25.42, Description: PDI-089SC-B-00-02-200509

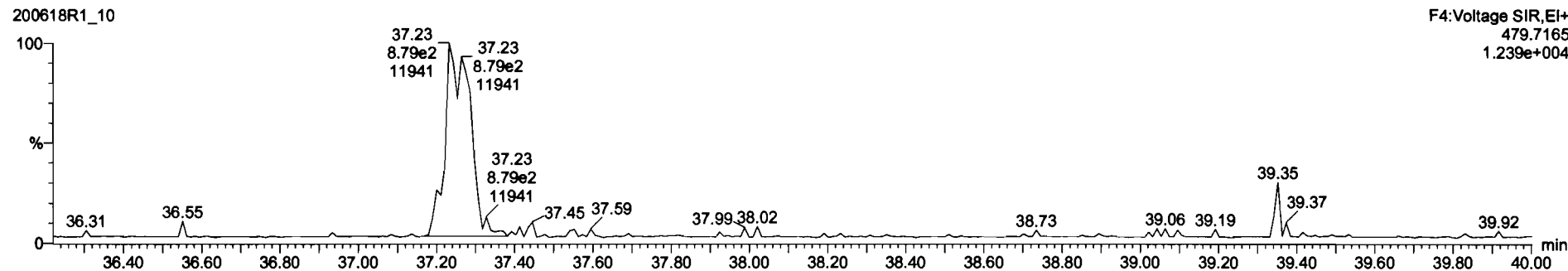
**1,2,3,4,6,7,8-HpCDF**



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



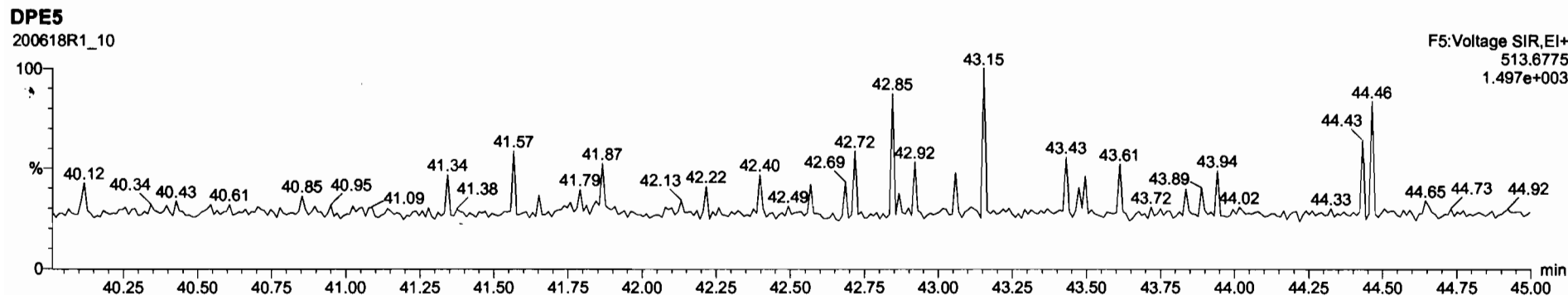
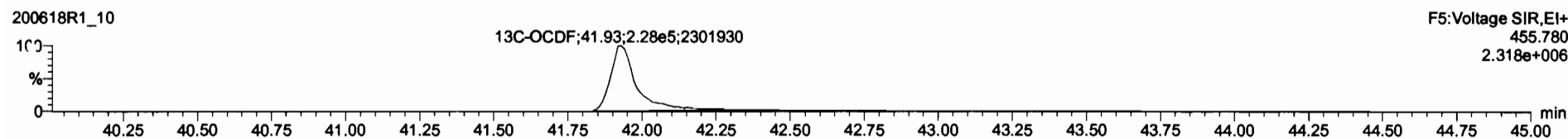
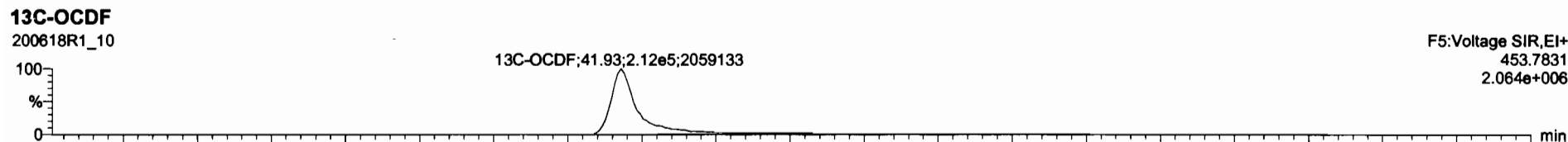
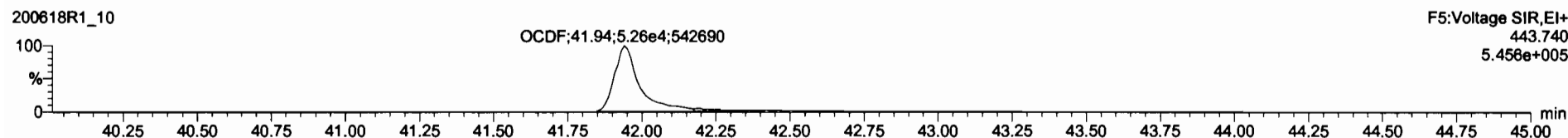
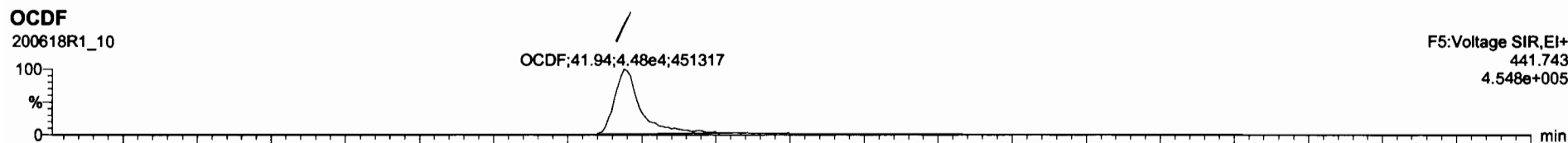
**DPE4**



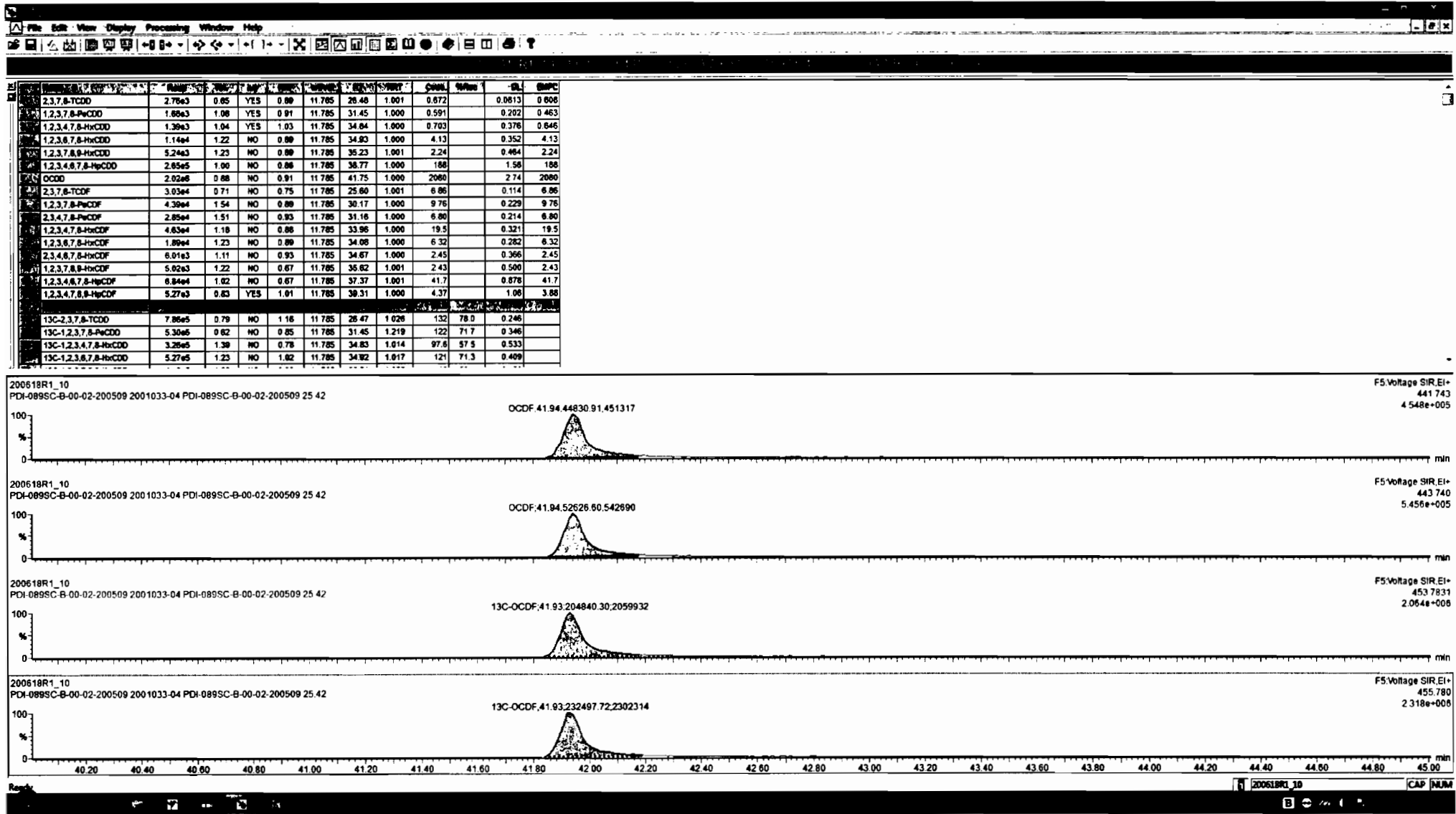
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1\_10, Date: 18-Jun-2020, Time: 20:03:01, ID: 2001033-04 PDI-089SC-B-00-02-200509 25.42, Description: PDI-089SC-B-00-02-200509





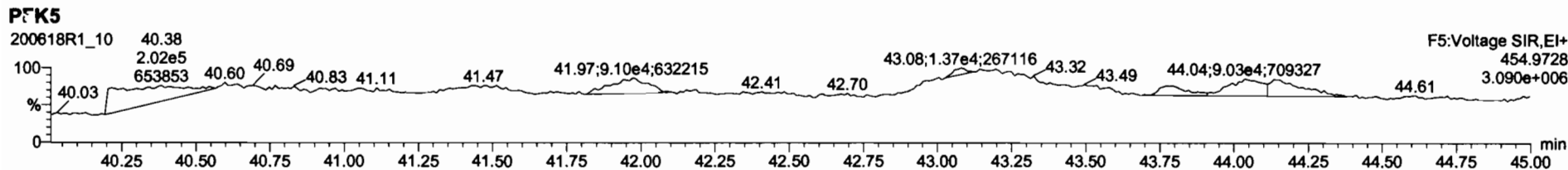
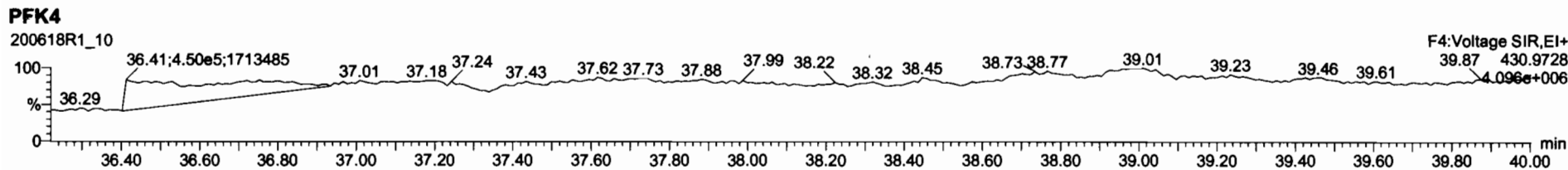
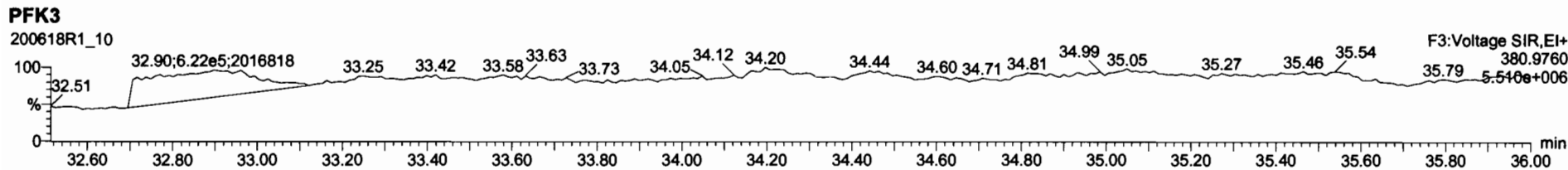
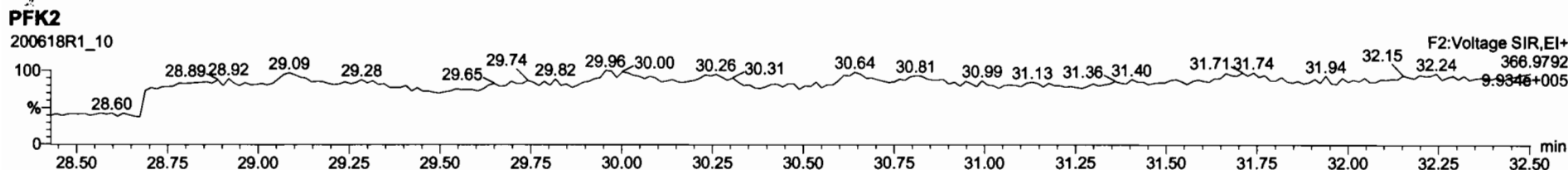
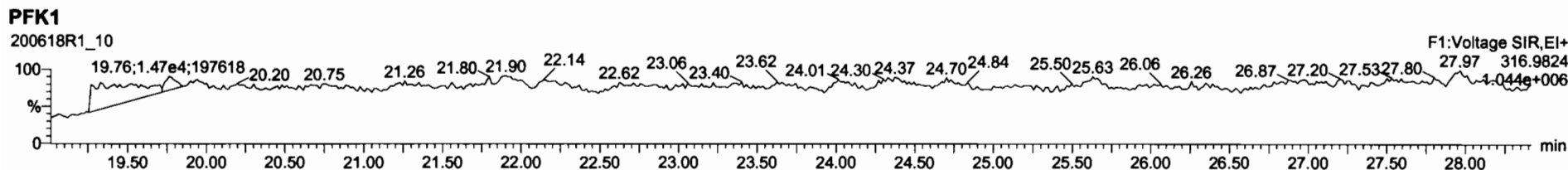


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Last Altered: Friday, June 19, 2020 07:32:51 Pacific Daylight Time

Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1\_10, Date: 18-Jun-2020, Time: 20:03:01, ID: 2001033-04 PDI-089SC-B-00-02-200509 25.42, Description: PDI-089SC-B-00-02-200509



Dataset: U:\VG12.PRO\Results\200618R1\200618R1-11.qld

Last Altered: Friday, June 19, 2020 11:32:50 Pacific Daylight Time  
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*GRB 06/19/2020*

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

*C9 07/10/2020*

Name: 200618R1\_11, Date: 18-Jun-2020, Time: 20:49:13, ID: 2001033-05 PDI-089SC-B-02-05-200509 20.54, Description: PDI-089SC-B-02-05-200509

#	Name	Resp	RA	n/y	RRF	w/wf	Pred.RT	RT	Pub.RRT	RRF	Conc	UCL	LCL
1	2,3,7,8-TCDD			NO	0.888	10.415	26.515		1.001				0.154
2	1,2,3,7,8-PeCDD	3.80e2	1.11	YES	0.908	10.415	31.473	31.47	1.001	1.000	0.27152	0.432	0.214
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.415	34.835		1.000				0.361
4	1,2,3,6,7,8-HxCDD	1.39e3	1.23	NO	0.892	10.415	34.932	34.94	1.000	1.000	0.95761	0.349	0.958
5	1,2,3,7,8,9-HxCDD			NO	0.887	10.415	35.230		1.000				0.454
6	1,2,3,4,6,7,8-HpCDD	2.25e4	0.94	NO	0.864	10.415	38.767	38.78	1.000	1.001	31.107	1.15	31.1
7	OCDD	1.82e5	0.87	NO	0.914	10.415	41.737	41.76	1.000	1.001	311.14	1.75	311
8	2,3,7,8-TCDF	1.92e3	0.72	NO	0.751	10.415	25.612	25.60	1.001	1.001	0.86847	0.158	0.868
9	1,2,3,7,8-PeCDF	2.30e3	1.74	NO	0.893	10.415	30.190	30.20	1.001	1.001	1.0826	0.308	1.08
10	2,3,4,7,8-PeCDF	2.01e3	1.85	YES	0.935	10.415	31.176	31.19	1.001	1.001	0.92073	0.278	0.823
11	1,2,3,4,7,8-HxCDF	1.89e3	1.16	NO	0.884	10.415	33.952	33.95	1.000	1.000	1.5658	0.325	1.57
12	1,2,3,6,7,8-HxCDF	1.20e3	1.17	NO	0.889	10.415	34.079	34.10	1.000	1.001	0.77858	0.310	0.779
13	2,3,4,6,7,8-HxCDF	7.38e2	1.18	NO	0.934	10.415	34.690	34.69	1.001	1.001	0.53747	0.345	0.537
14	1,2,3,7,8,9-HxCDF			NO	0.871	10.415	35.581		1.000				0.561
15	1,2,3,4,6,7,8-HpCDF	9.74e3	0.99	NO	0.873	10.415	37.386	37.37	1.001	1.001	10.788	0.513	10.8
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.415	39.309		1.000				0.621
17	OCDF	3.73e3	0.88	NO	0.806	10.415	41.929	41.96	1.000	1.001	6.2842	0.335	6.28
18	13C-2,3,7,8-TCDD	4.09e5	0.80	NO	1.16	10.415	26.507	26.48	1.026	1.025	81.913	42.7	0.246
19	13C-1,2,3,7,8-PeCDD	2.90e5	0.65	NO	0.849	10.415	31.692	31.45	1.227	1.218	78.961	41.1	0.279
20	13C-1,2,3,4,7,8-HxCDD	2.01e5	1.31	NO	0.779	10.415	34.830	34.83	1.014	1.014	66.167	34.5	0.477
21	13C-1,2,3,6,7,8-HxCDD	3.12e5	1.28	NO	1.02	10.415	34.944	34.93	1.017	1.017	78.569	40.9	0.366
22	13C-1,2,3,7,8,9-HxCDD	2.58e5	1.29	NO	0.903	10.415	35.215	35.22	1.025	1.025	73.100	38.1	0.412
23	13C-1,2,3,4,6,7,8-HpCDD	1.61e5	1.05	NO	0.689	10.415	38.739	38.76	1.128	1.128	59.642	31.1	0.511
24	13C-OCDD	2.46e5	0.88	NO	0.652	10.415	41.761	41.74	1.216	1.215	96.528	25.1	0.510
25	13C-2,3,7,8-TCDF	5.64e5	0.78	NO	1.06	10.415	25.549	25.59	0.989	0.991	78.594	40.9	0.252
26	13C-1,2,3,7,8-PeCDF	4.56e5	1.57	NO	0.838	10.415	30.076	30.17	1.165	1.168	80.322	41.8	0.557
27	13C-2,3,4,7,8-PeCDF	4.47e5	1.54	NO	0.817	10.415	31.029	31.15	1.202	1.206	80.841	42.1	0.572
28	13C-1,2,3,4,7,8-HxCDF	2.62e5	0.50	NO	1.01	10.415	33.961	33.95	0.989	0.989	66.483	34.6	0.551
29	13C-1,2,3,6,7,8-HxCDF	3.32e5	0.50	NO	1.17	10.415	34.085	34.07	0.992	0.992	72.922	38.0	0.475
30	13C-2,3,4,6,7,8-HxCDF	2.82e5	0.49	NO	1.02	10.415	34.659	34.65	1.009	1.009	70.719	36.8	0.543
31	13C-1,2,3,7,8,9-HxCDF	2.23e5	0.49	NO	0.860	10.415	35.558	35.58	1.035	1.036	66.339	34.5	0.646

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-11.qld

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Name: 200618R1\_11, Date: 18-Jun-2020, Time: 20:49:13, ID: 2001033-05 PDI-089SC-B-02-05-200509 20.54, Description: PDI-089SC-B-02-05-200509

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	Area	EL	RRF
32	13C-1,2,3,4,6,7,8-HpCDF	1.98e5	0.41	NO	0.774	10.415	37.307	37.35	1.086	1.087	65.609	34.2	0.621	
33	13C-1,2,3,4,7,8,9-HpCDF	1.23e5	0.39	NO	0.521	10.415	39.336	39.31	1.145	1.145	60.493	31.5	0.923	
34	13C-OCDF	2.82e5	0.88	NO	0.746	10.415	41.933	41.93	1.221	1.221	96.982	25.3	0.435	
35	37Cl-2,3,7,8-TCDD	3.76e5			1.04	10.415	26.538	26.50	1.028	1.026	83.976	109	0.0776	
36	13C-1,2,3,4-TCDD	8.30e5	0.79	NO	1.00	10.415	25.890	25.83	1.000	1.000	192.04	100	0.284	
37	13C-1,2,3,4-TCDF	1.30e6	0.79	NO	1.00	10.415	24.360	24.15	1.000	1.000	192.04	100	0.267	
38	13C-1,2,3,4,6,9-HxCDF	7.50e5	0.49	NO	1.00	10.415	34.420	34.35	1.000	1.000	192.04	100	0.555	
39	Total Tetra-Dioxins				0.888	10.415	24.620		0.000		0.67213		0.154	0.672
40	Total Penta-Dioxins				0.908	10.415	29.960		0.000		3.9452		0.432	4.41
41	Total Hexa-Dioxins				0.892	10.415	33.635		0.000		12.236		0.401	12.2
42	Total Hepta-Dioxins				0.864	10.415	37.640		0.000		75.736		1.15	75.7
43	Total Tetra-Furans				0.751	10.415	23.610		0.000		5.4100		0.158	6.22
44	1st Func. Penta-Furans				0.893	10.415	27.580		0.000		4.5909		0.0429	4.59
45	Total Penta-Furans				0.893	10.415	29.275		0.000		4.6787		0.299	5.50
46	Total Hexa-Furans				0.934	10.415	33.555		0.000		14.121		0.357	14.1
47	Total Hepta-Furans				0.873	10.415	37.835		0.000		22.125		0.592	22.1

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-11.qld

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

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

Name: 200618R1\_11, Date: 18-Jun-2020, Time: 20:49:13, ID: 2001033-05 PDI-089SC-B-02-05-200509 20.54, Description: PDI-089SC-B-02-05-200509

**Tetra-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Tetra-Dioxins	22.49	7.082e3	7.066e3	5.464e2	7.264e2	0.75	NO	1.273e3	0.67213	0.67213	0.154

**Penta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Penta-Dioxins	29.24	9.000e3	1.068e4	5.671e2	8.038e2	0.71	NO	1.371e3	1.0006	1.0006	0.432
Total Penta-Dioxins	29.73	3.920e3	6.816e3	1.981e2	2.869e2	0.69	NO	4.850e2	0.35404	0.35404	0.432
Total Penta-Dioxins	30.23	4.601e3	9.230e3	3.883e2	6.100e2	0.64	NO	9.983e2	0.72867	0.72867	0.432
Total Penta-Dioxins	30.37	6.109e3	9.409e3	3.009e2	4.417e2	0.68	NO	7.426e2	0.54200	0.54200	0.432
Total Penta-Dioxins	30.47	2.535e3	4.904e3	1.846e2	3.314e2	0.56	NO	5.159e2	0.37658	0.37658	0.432
Total Penta-Dioxins	30.69	6.178e3	8.118e3	5.241e2	7.683e2	0.68	NO	1.292e3	0.94329	0.94329	0.432
1,2,3,7,8-PeCDD	31.47	5.869e3	3.763e3	2.001e2	1.801e2	1.11	YES	3.802e2	0.00000	0.21432	0.432
Total Penta-Dioxins	31.51	5.019e3	4.151e3	3.105e2	2.134e2	1.46	YES	0.000e0	0.00000	0.25391	0.432

**Hexa-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hexa-Dioxins	33.33	5.442e4	4.238e4	3.152e3	2.471e3	1.28	NO	5.624e3	4.7103	4.7103	0.401
Total Hexa-Dioxins	33.89	6.935e3	7.660e3	3.889e2	3.371e2	1.15	NO	7.260e2	0.60804	0.60804	0.401
Total Hexa-Dioxins	34.15	5.186e4	3.704e4	3.546e3	2.846e3	1.25	NO	6.392e3	5.3538	5.3538	0.401
Total Hexa-Dioxins	34.25	7.489e3	6.361e3	3.981e2	3.255e2	1.22	NO	7.235e2	0.60601	0.60601	0.401
1,2,3,6,7,8-HxCDD	34.94	1.185e4	9.582e3	7.648e2	6.231e2	1.23	NO	1.388e3	0.95761	0.95761	0.349

**Hepta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hepta-Dioxins	37.76	1.742e5	1.758e5	1.653e4	1.570e4	1.05	NO	3.223e4	44.629	44.629	1.15
1,2,3,4,6,7,8-HpCDD	38.78	1.324e5	1.394e5	1.090e4	1.157e4	0.94	NO	2.246e4	31.107	31.107	1.15

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-11.qld

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Name: 200618R1\_11, Date: 18-Jun-2020, Time: 20:49:13, ID: 2001033-05 PDI-089SC-B-02-05-200509 20.54, Description: PDI-089SC-B-02-05-200509

**Tetra-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Tetra-Furans	20.89	2.972e3	3.507e3	2.310e2	2.901e2	0.80	NO	5.210e2	0.23618	0.23618	0.158
Total Tetra-Furans	21.50	1.450e4	1.665e4	1.157e3	1.541e3	0.75	NO	2.698e3	1.2228	1.2228	0.158
Total Tetra-Furans	22.46	6.203e3	1.091e4	7.410e2	1.090e3	0.68	NO	1.831e3	0.82987	0.82987	0.158
Total Tetra-Furans	22.92	7.463e3	9.627e3	5.721e2	7.840e2	0.73	NO	1.356e3	0.61470	0.61470	0.158
Total Tetra-Furans	24.06	7.269e3	9.518e3	4.969e2	6.288e2	0.79	NO	1.126e3	0.51030	0.51030	0.158
Total Tetra-Furans	24.12	3.688e3	4.911e3	2.771e2	3.594e2	0.77	NO	0.000e0	0.00000	0.28850	0.158
Total Tetra-Furans	24.67	1.115e4	1.630e4	1.037e3	1.451e3	0.71	NO	2.488e3	1.1277	1.1277	0.158
Total Tetra-Furans	25.50	3.836e3	3.553e3	3.038e2	2.809e2	1.08	YES	0.000e0	0.00000	0.22540	0.158
2,3,7,8-TCDF	25.60	9.359e3	1.313e4	8.011e2	1.115e3	0.72	NO	1.916e3	0.86847	0.86847	0.158
Total Tetra-Furans	27.62	4.673e3	6.584e3	3.481e2	3.692e2	0.94	YES	0.000e0	0.00000	0.29622	0.158

**Penta-Furans function 1**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1st Func. Penta-Furans	27.59	8.713e4	5.725e4	5.858e3	3.782e3	1.55	NO	9.640e3	4.5909	4.5909	0.0429

**Penta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Penta-Furans	29.19	3.028e4	1.953e4	2.240e3	1.624e3	1.38	NO	3.864e3	1.8401	1.8401	0.299
Total Penta-Furans	29.79	1.665e4	1.069e4	1.211e3	7.041e2	1.72	NO	1.915e3	0.91199	0.91199	0.299
1,2,3,7,8-PeCDF	30.20	1.954e4	1.273e4	1.458e3	8.370e2	1.74	NO	2.295e3	1.0826	1.0826	0.308
Total Penta-Furans	30.46	1.050e4	7.448e3	7.320e2	5.187e2	1.41	NO	1.251e3	0.59563	0.59563	0.299
2,3,4,7,8-PeCDF	31.19	2.476e4	1.302e4	1.302e3	7.030e2	1.85	YES	2.005e3	0.00000	0.82312	0.278
Total Penta-Furans	31.22	9.835e3	4.950e3	3.073e2	2.143e2	1.43	NO	5.216e2	0.24839	0.24839	0.299

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Name: 200618R1\_11, Date: 18-Jun-2020, Time: 20:49:13, ID: 2001033-05 PDI-089SC-B-02-05-200509 20.54, Description: PDI-089SC-B-02-05-200509

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Area	EMPC	DL
Total Hexa-Furans	32.79	2.134e4	1.783e4	1.184e3	9.951e2	1.19	NO	2.179e3	1.6307	1.6307	0.357
Total Hexa-Furans	32.95	5.225e4	4.385e4	2.873e3	2.425e3	1.18	NO	5.298e3	3.9653	3.9653	0.357
Total Hexa-Furans	33.51	7.566e4	5.962e4	4.042e3	3.498e3	1.16	NO	7.540e3	5.6434	5.6434	0.357
1,2,3,4,7,8-HxCDF	33.95	1.775e4	1.282e4	1.015e3	8.716e2	1.16	NO	1.886e3	1.5658	1.5658	0.325
1,2,3,6,7,8-HxCDF	34.10	1.154e4	8.041e3	6.468e2	5.512e2	1.17	NO	1.198e3	0.77858	0.77858	0.310
2,3,4,6,7,8-HxCDF	34.69	7.754e3	6.935e3	3.992e2	3.385e2	1.18	NO	7.377e2	0.53747	0.53747	0.345

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Area	EMPC	DL
1,2,3,4,6,7,8-HpCDF	37.37	5.635e4	5.867e4	4.848e3	4.888e3	0.99	NO	9.736e3	10.788	10.788	0.513
Total Hepta-Furans	37.97	5.181e4	4.982e4	4.127e3	4.161e3	0.99	NO	8.288e3	11.336	11.336	0.592

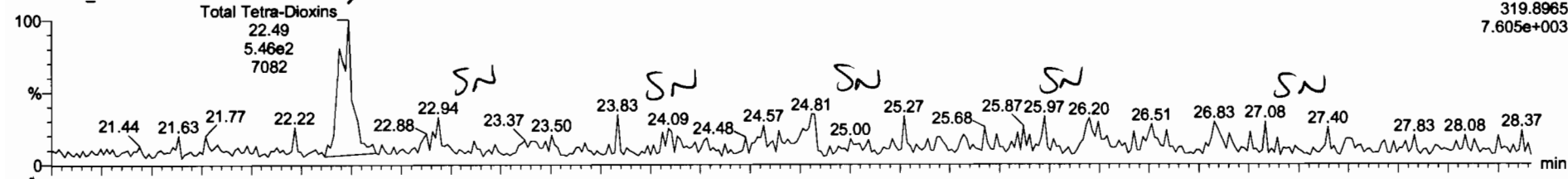
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

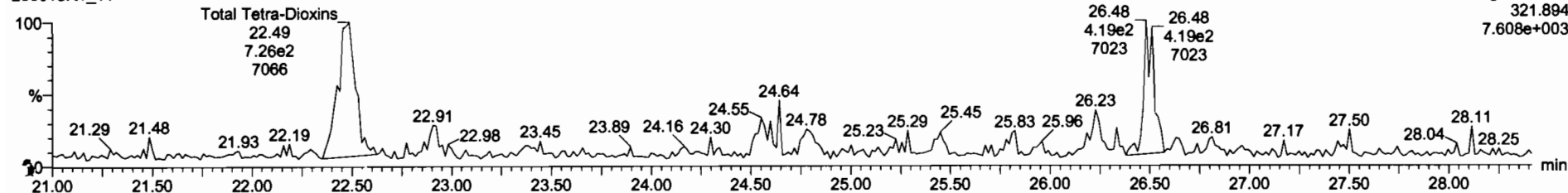
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**2,3,7,8-TCDD**

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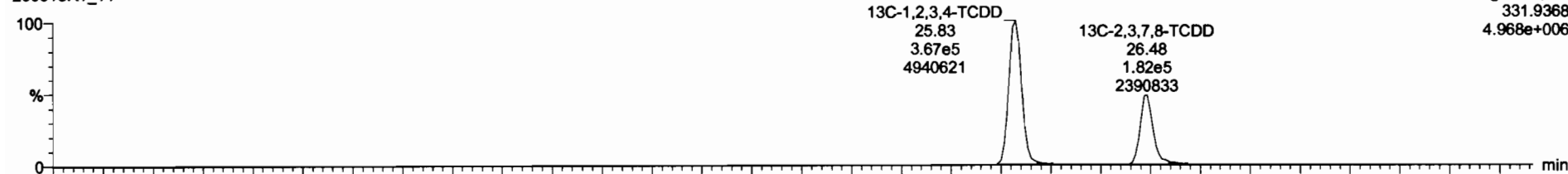


200618R1\_11

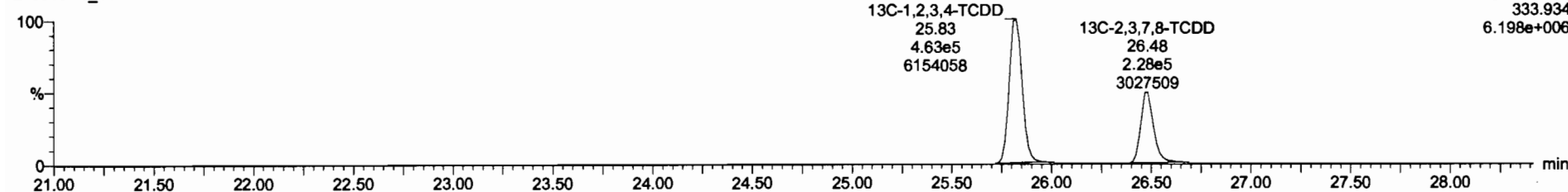


**13C-2,3,7,8-TCDD**

200618R1\_11



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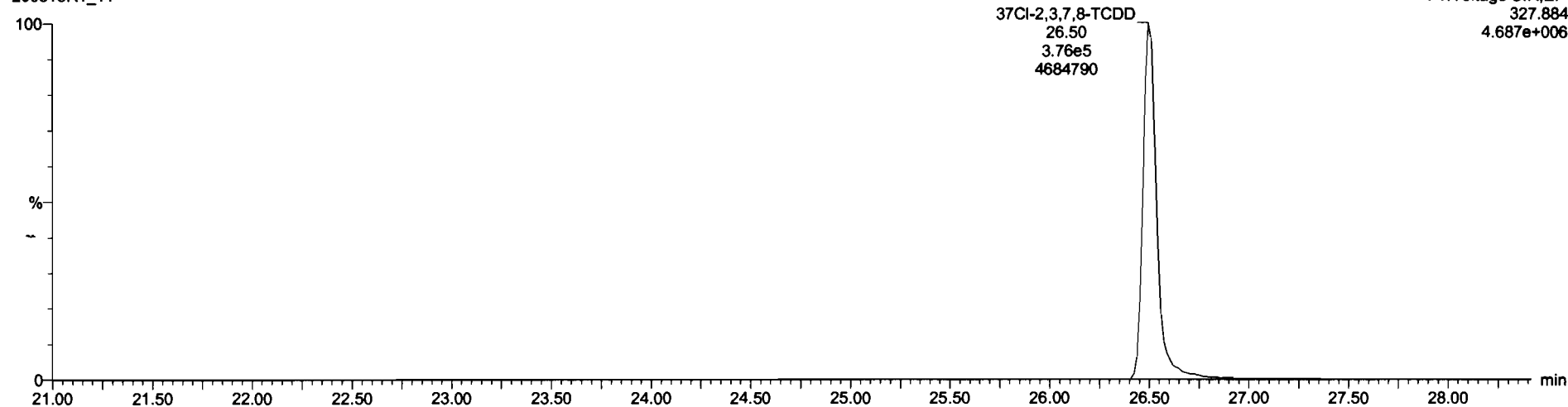
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Last Altered: Friday, June 19, 2020 07:32:51 Pacific Daylight Time  
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Name: 200618R1\_11, Date: 18-Jun-2020, Time: 20:49:13, ID: 2001033-05 PDI-089SC-B-02-05-200509 20.54, Description: PDI-089SC-B-02-05-200509

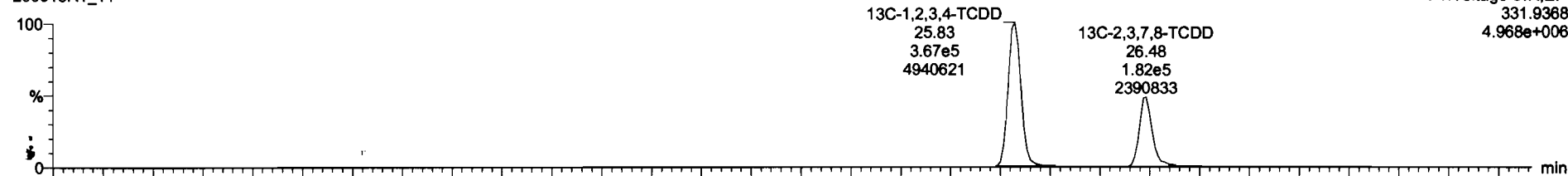
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200618R1\_11

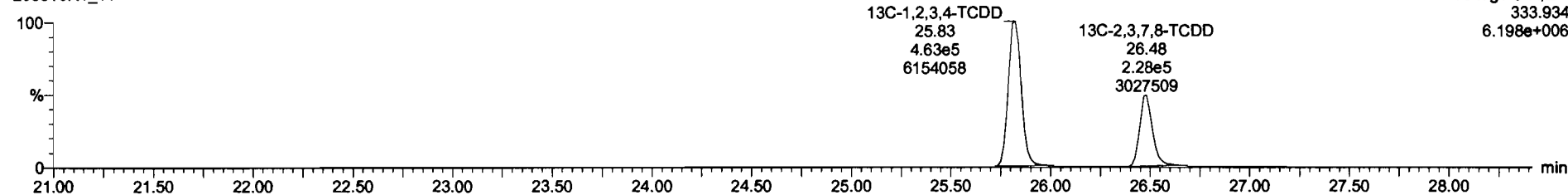


**13C-1,2,3,4-TCDD**

200618R1\_11



200618R1\_11

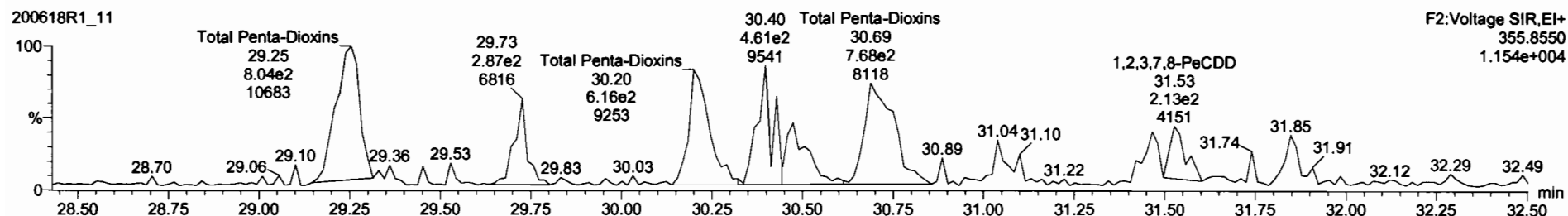
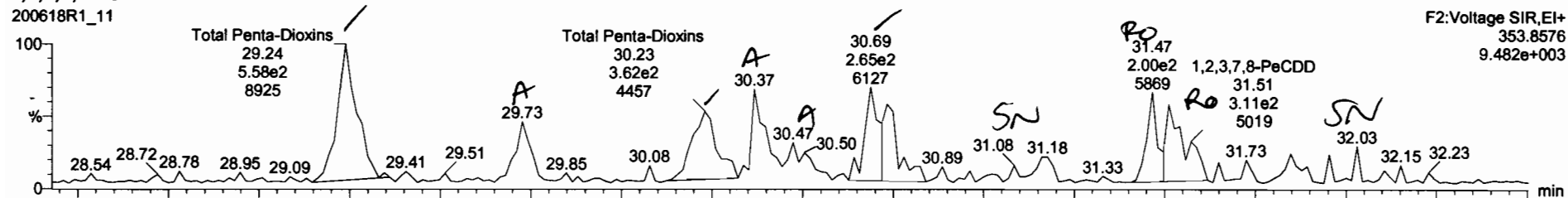


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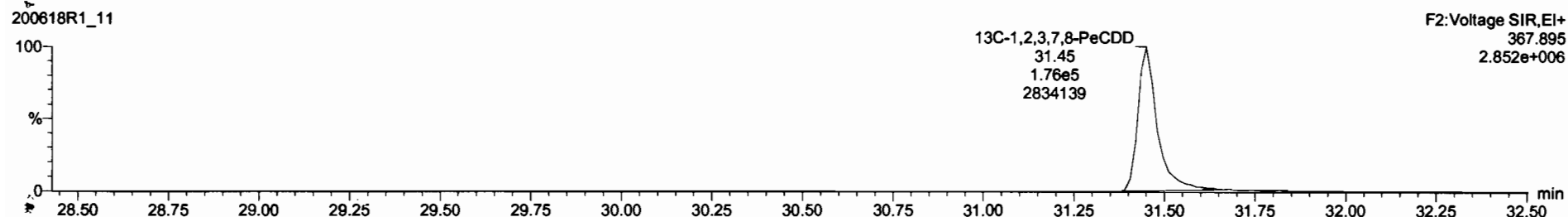
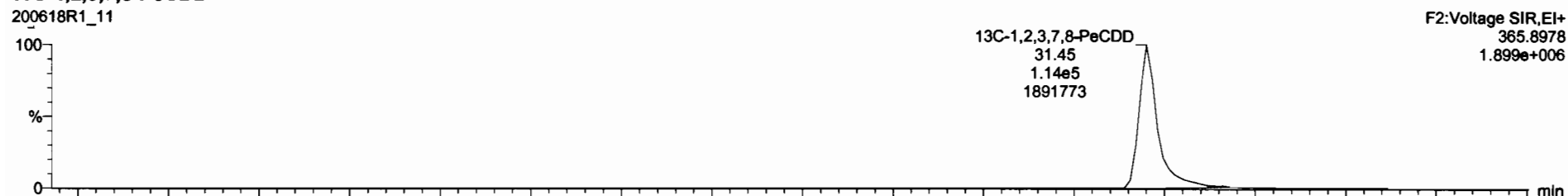
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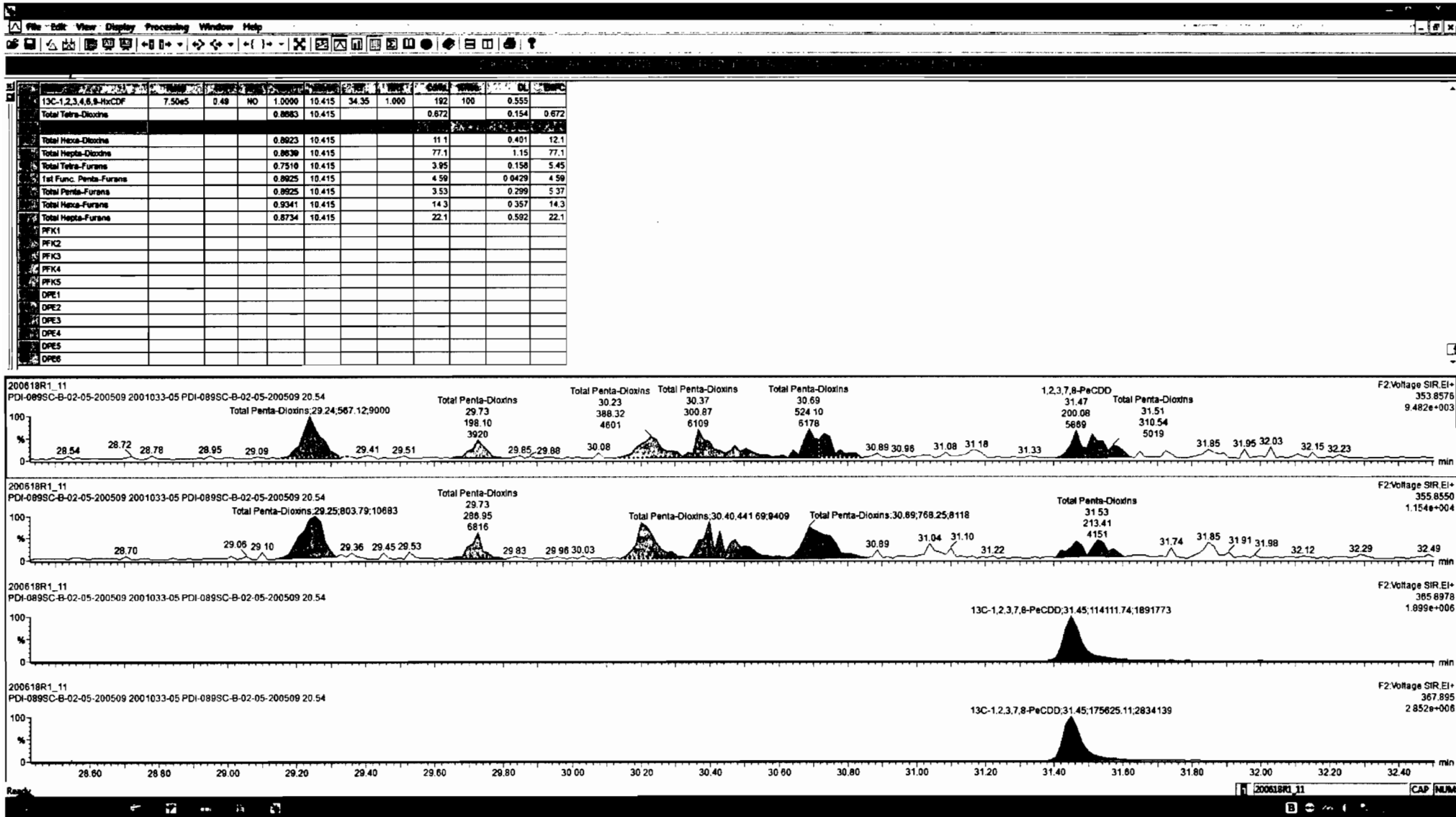
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1,2,3,7,8-PeCDD



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



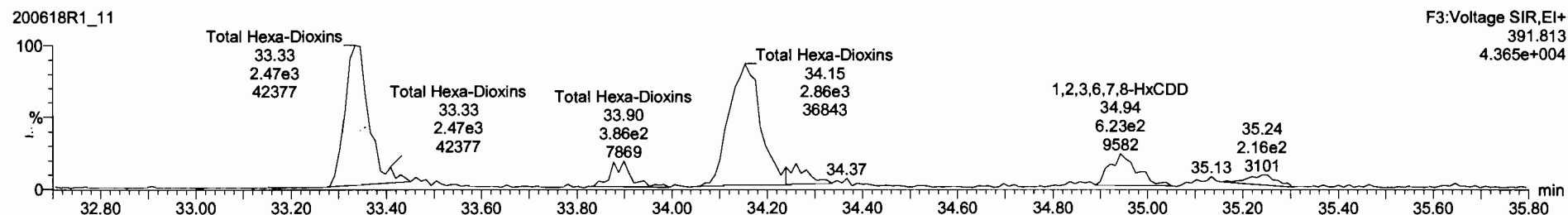
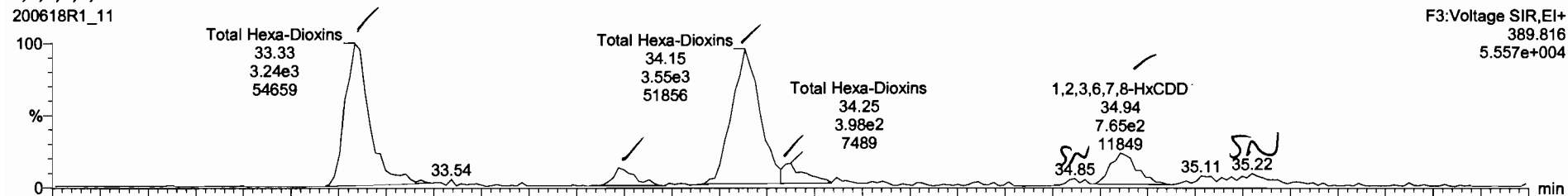


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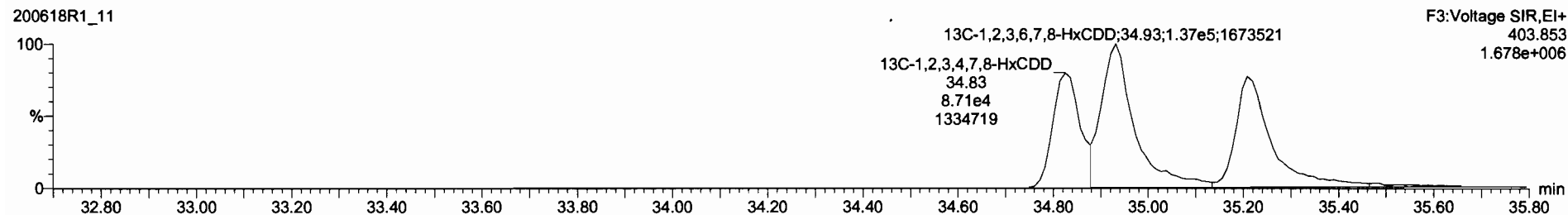
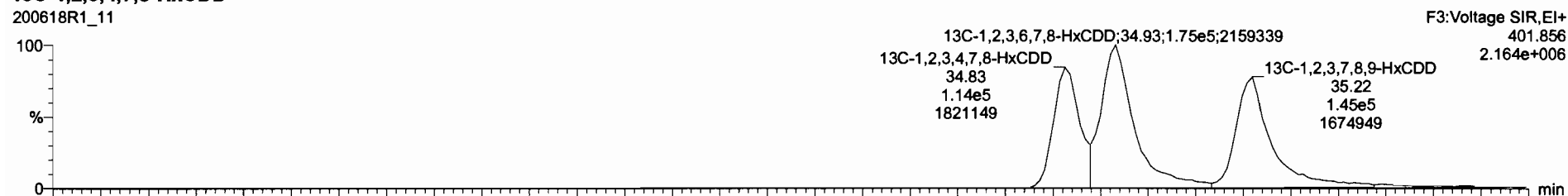
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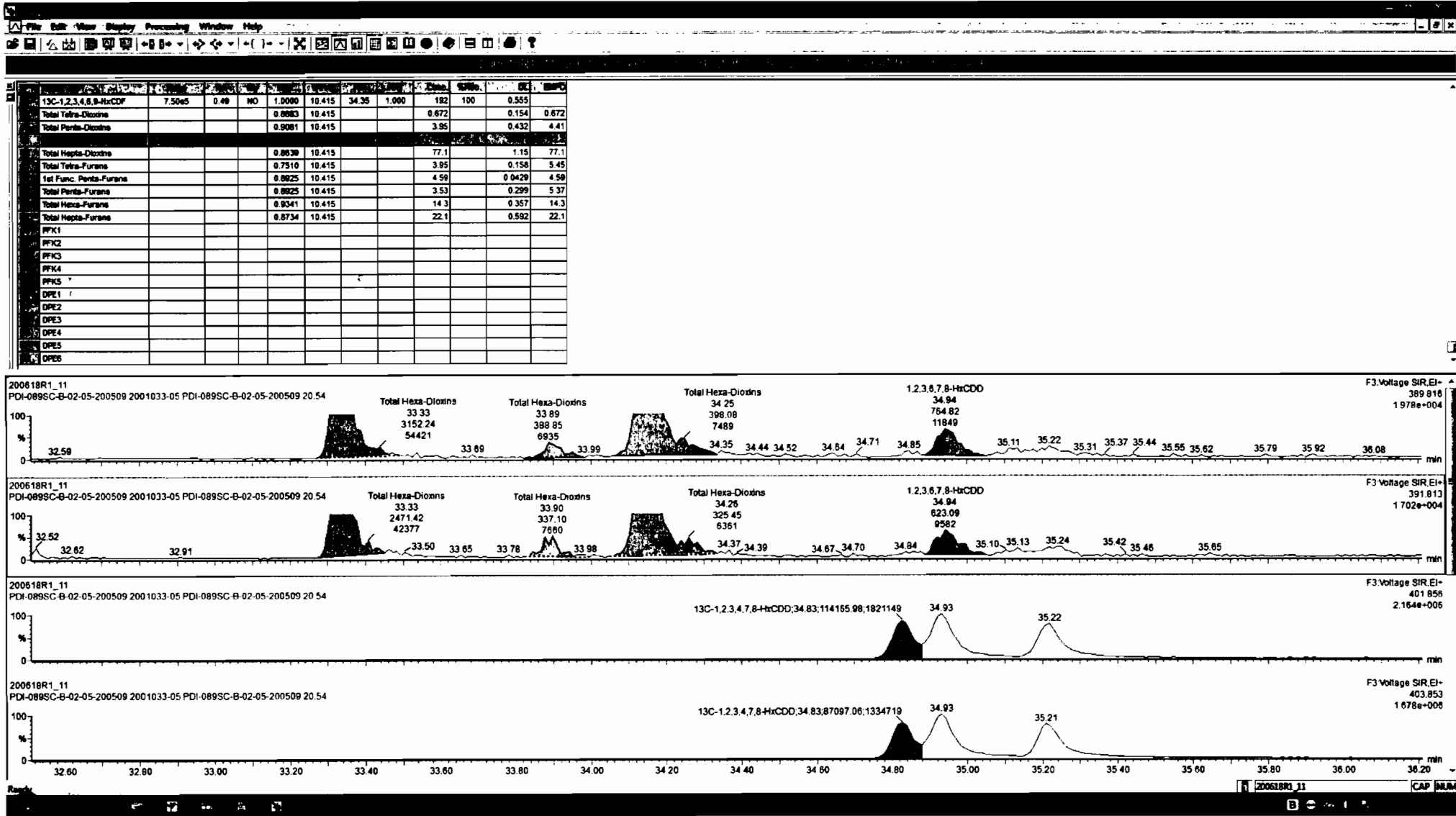
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1,2,3,4,7,8-HxCDD



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





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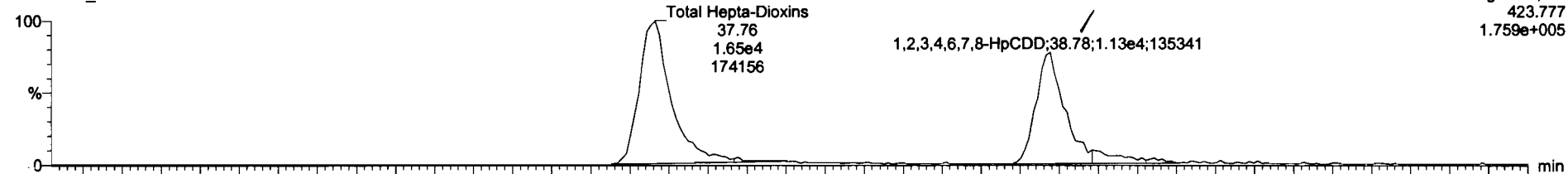
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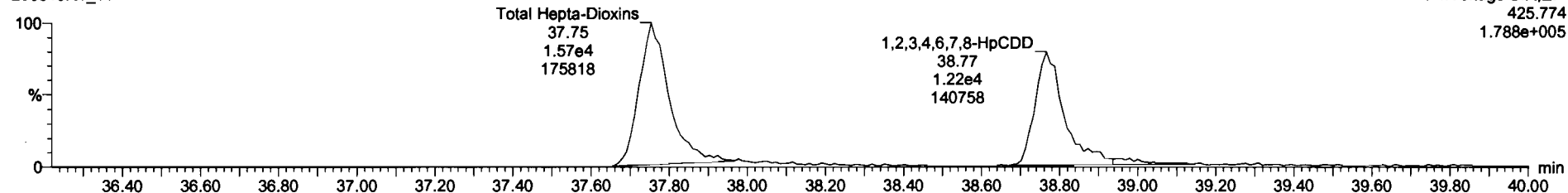
**1,2,3,4,6,7,8-HpCDD**

200618R1\_11



F4:Voltage SIR,EI+  
423.777  
1.759e+005

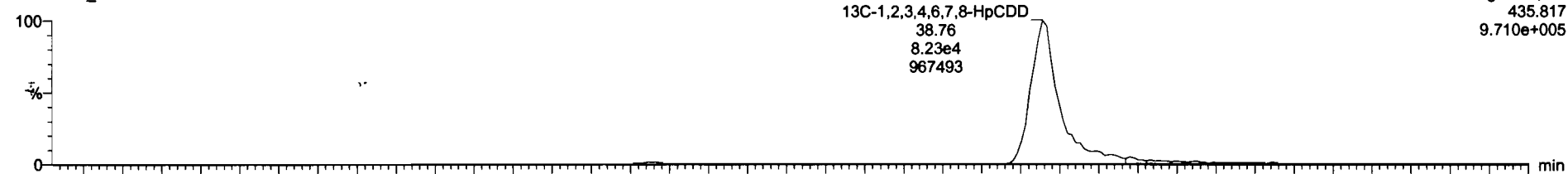
200618R1\_11



F4:Voltage SIR,EI+  
425.774  
1.788e+005

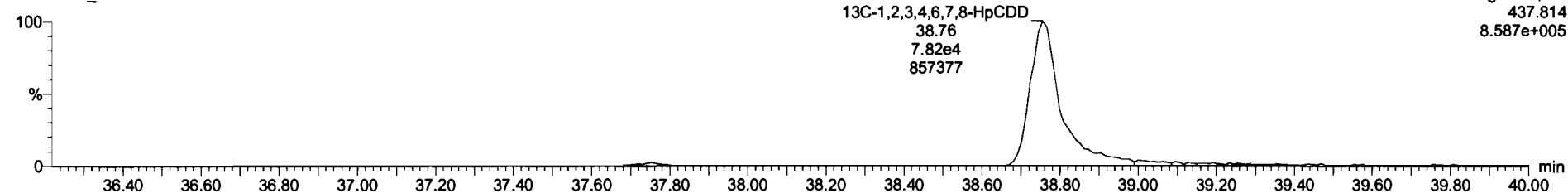
**13C-1,2,3,4,6,7,8-HpCDD**

200618R1\_11



F4:Voltage SIR,EI+  
435.817  
9.710e+005

200618R1\_11



F4:Voltage SIR,EI+  
437.814  
8.587e+005



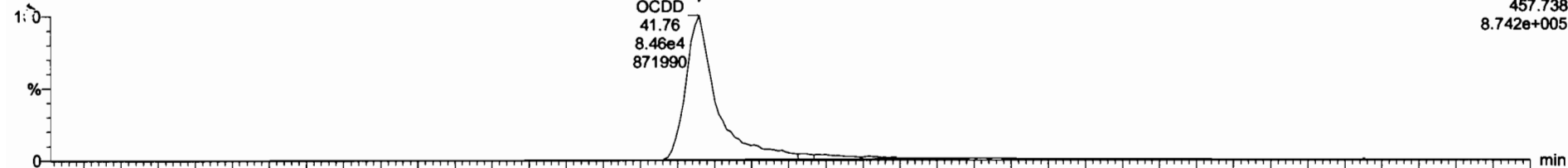
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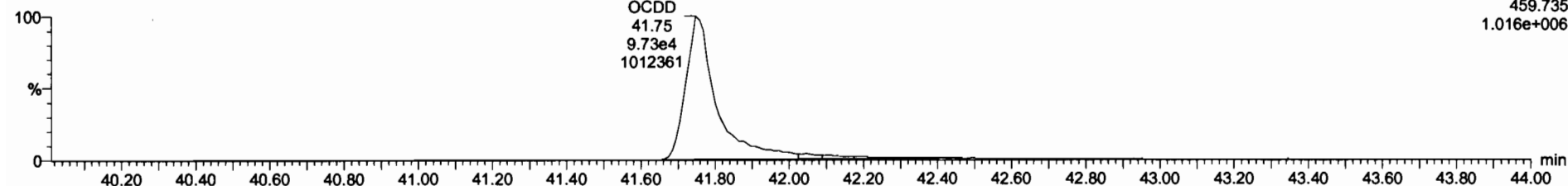
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**OCDD**

200618R1\_11

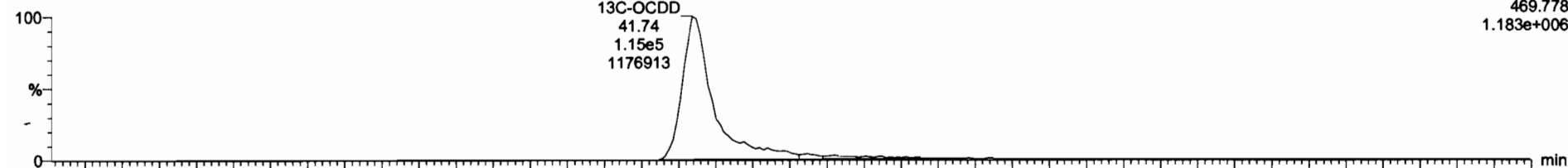


200618R1\_11

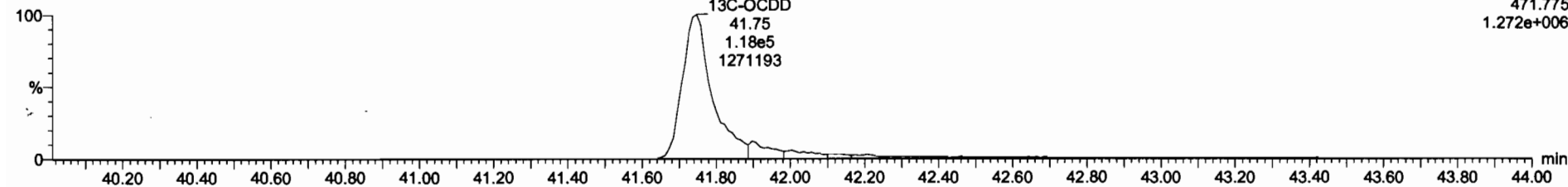


**13C-OCDD**

200618R1\_11

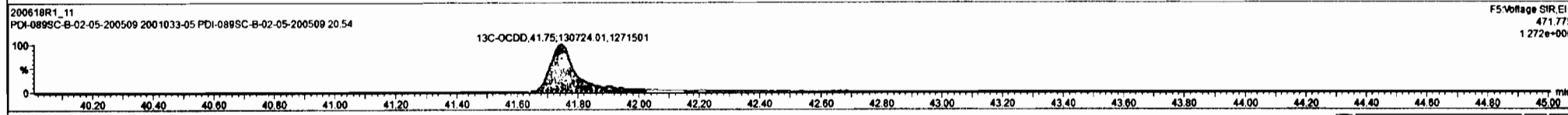


200618R1\_11





Compound	Concentration	Response	Method	Area	Retention	Height	Width	Area%	Height%
2,3,7,8-TCDD		NO	0.8863	10.415				0.154	
1,2,3,7,8-PeCDD	5.24e2	1.46	YES	0.9081	10.415	31.51	1.002	0.362	0.254
1,2,3,4,7,8-HxCDD		NO	1.0334	10.415				0.361	
1,2,3,6,7,8-HxCDD	1.30e3	1.23	NO	0.8823	10.415	34.94	1.000	0.958	0.958
1,2,3,7,8,9-HxCDD		NO	0.8869	10.415				0.454	
1,2,3,4,6,7,8-HpCDD	2.35e4	0.93	NO	0.8839	10.415	36.78	1.001	32.5	1.15
2,3,7,8-TCDF	1.87e3	0.82	NO	0.7510	10.415	25.60	1.001	0.846	0.846
1,2,3,7,8-PeCDF	2.30e3	1.74	NO	0.8625	10.415	30.20	1.001	1.08	1.08
2,3,4,7,8-PeCDF	2.56e3	1.84	YES	0.9348	10.415	31.19	1.001	1.18	1.08
1,2,3,4,7,8-HxCDF	1.89e3	1.18	NO	0.8845	10.415	33.95	1.000	1.57	1.57
1,2,3,6,7,8-HxCDF	1.36e3	1.34	NO	0.8892	10.415	34.10	1.001	0.887	0.887
2,3,4,6,7,8-HxCDF	7.05e2	1.27	NO	0.9341	10.415	34.69	1.001	0.513	0.345
1,2,3,7,8,9-HxCDF		NO	0.8797	10.415				0.561	
1,2,3,4,6,7,8-HpCDF	8.74e3	0.99	NO	0.8734	10.415	37.37	1.001	10.8	0.513
1,2,3,4,7,8,9-HpCDF		NO	1.0128	10.415				0.621	
OCDF	3.43e3	0.73	YES	0.8085	10.415	41.98	1.001	5.78	0.335
13C-2,3,7,8-TCDD	4.09e5	0.80	NO	1.1963	10.415	26.48	1.025	81.9	42.7
13C-1,2,3,7,8-PeCDD	2.90e5	0.65	NO	0.8490	10.415	31.45	1.218	79.0	41.1
13C-1,2,3,4,7,8-HxCDD	2.01e5	1.31	NO	0.7790	10.415	34.83	1.014	66.2	34.5
13C-1,2,3,6,7,8-HxCDD	3.12e5	1.28	NO	1.0167	10.415	34.83	1.017	78.0	40.9

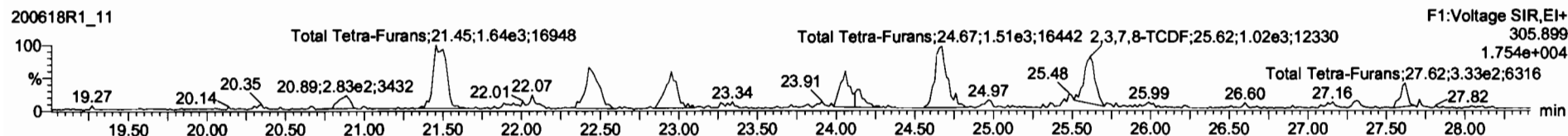
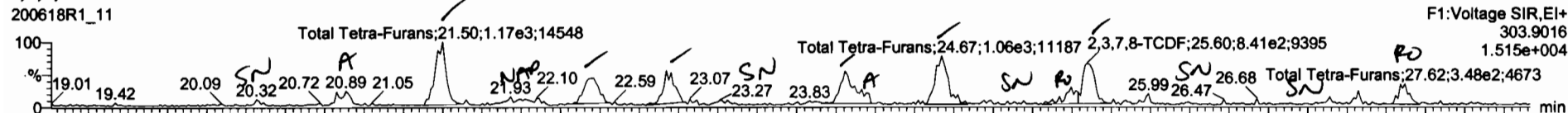


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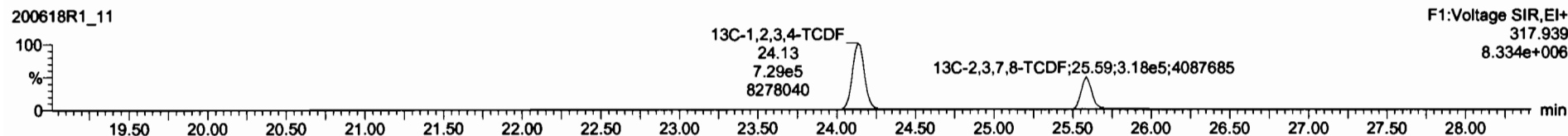
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Name: 200618R1\_11, Date: 18-Jun-2020, Time: 20:49:13, ID: 2001033-05 PDI-089SC-B-02-05-200509 20.54, Description: PDI-089SC-B-02-05-200509

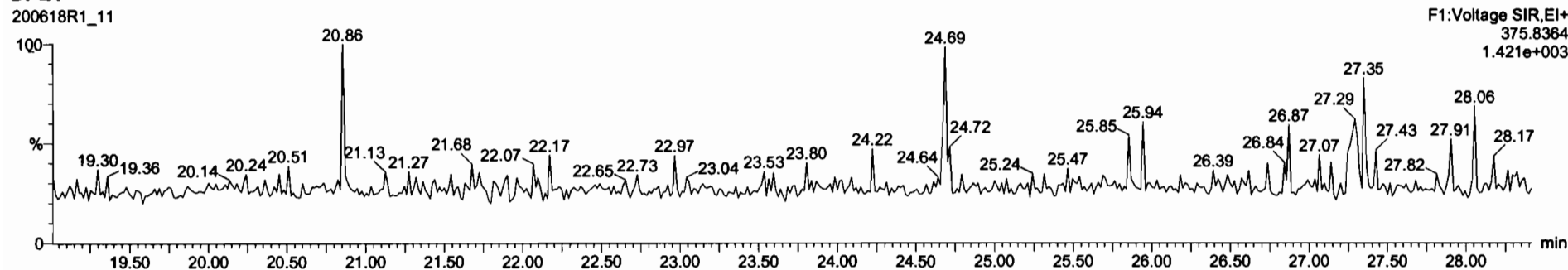
**2,3,7,8-TCDF**



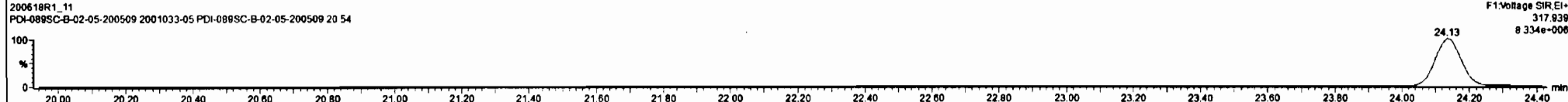
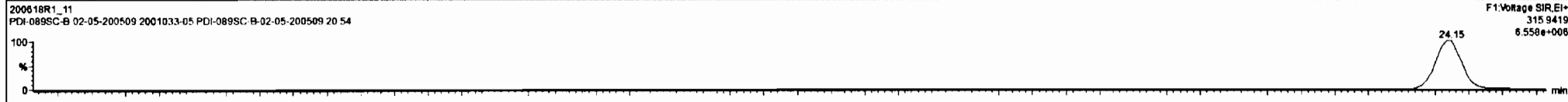
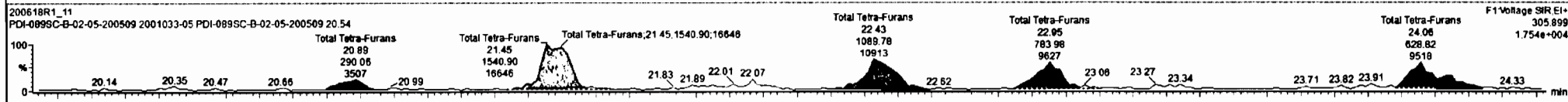
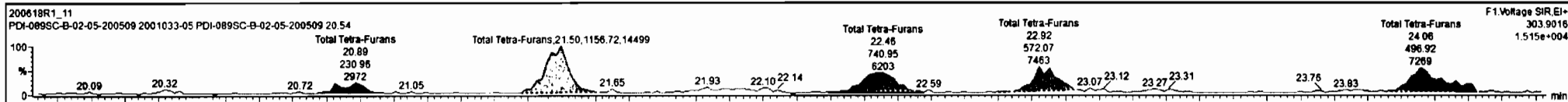
**13C-2,3,7,8-TCDF**



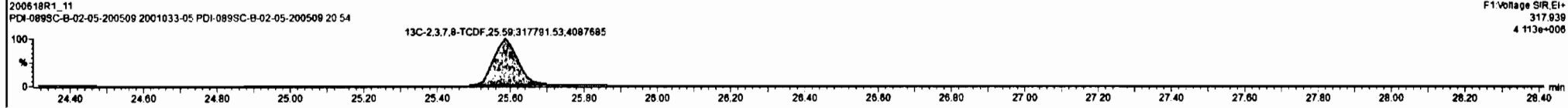
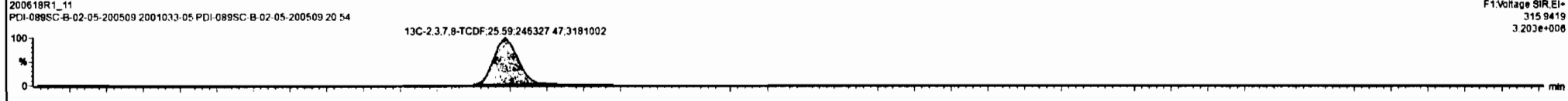
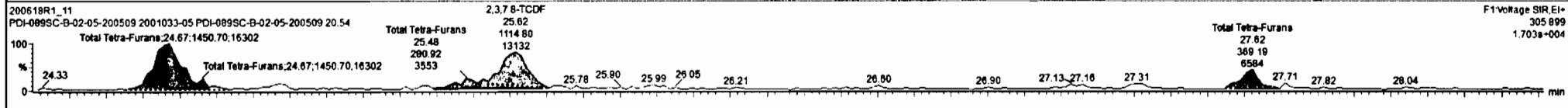
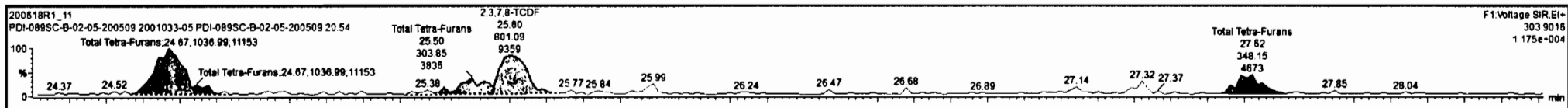
**DPE1**



NAME	CONC	UNIT	NO	REACT	REACT	REACT	REACT	REACT	REACT	REACT	REACT	REACT	REACT
13C-1,2,3,4,6,8-HxCDF	7.50e5	0.49	NO	1.0000	10.415	34.35	1.600	192	100	0.555			
Total Tetra-Dioxine				0.8983	10.415			0.672		0.154	0.672		
Total Penta-Dioxine				0.9081	10.415			3.95		0.432	4.41		
Total Hexa-Dioxine				0.8823	10.415			12.2		0.401	12.2		
Total Hepta-Dioxine				0.8839	10.415			75.7		1.15	75.7		
Total Tetra-Furans				0.7510	10.415			5.43		0.158	6.19		
1st Func. Penta-Furans				0.8825	10.415			4.59		0.0429	4.59		
Total Penta-Furans				0.8825	10.415			3.53		0.299	5.37		
Total Hexa-Furans				0.9341	10.415			14.3		0.357	14.3		
Total Hepta-Furans				0.8734	10.415			22.1		0.592	22.1		
PFK1													
PFK2													
PFK3													
PFK4													
PFK5													
DPE1													
DPE2													
DPE3													
DPE4													
DPE5													
DPE6													



Comp	Area	Conc	NO	1.0000	10.415	34.35	1.000	192	100	0.555	
13C-1,2,3,4,6,8-HxCDF	7.50e5	0.49	NO	1.0000	10.415	34.35	1.000	192	100	0.555	
Total Tetra-Dioxine				0.8883	10.415			0.672		0.154	0.672
Total Penta-Dioxine				0.9081	10.415			3.95		0.432	4.41
Total Hexa-Dioxine				0.8823	10.415			12.2		0.401	12.2
Total Hepta-Dioxine				0.8639	10.415			75.7		1.15	75.7
Total Tetra-Furans				0.7510	10.415			5.41		0.158	6.22
1st Func. Penta-Furans				0.8025	10.415			4.59		0.0429	4.59
Total Penta-Furans				0.8925	10.415			3.53		0.299	5.37
Total Hexa-Furans				0.9341	10.415			14.3		0.357	14.3
Total Hepta-Furans				0.8734	10.415			22.1		0.582	22.1
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
DPE6											



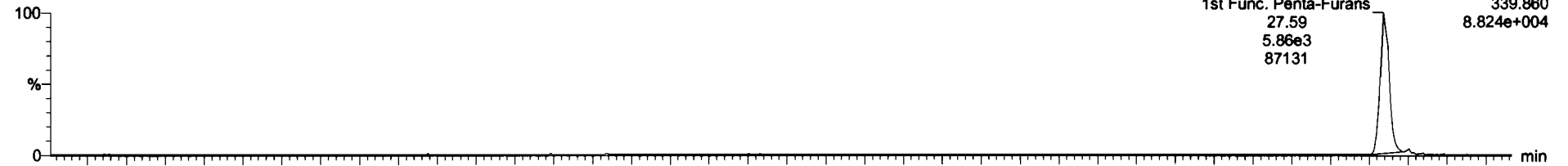
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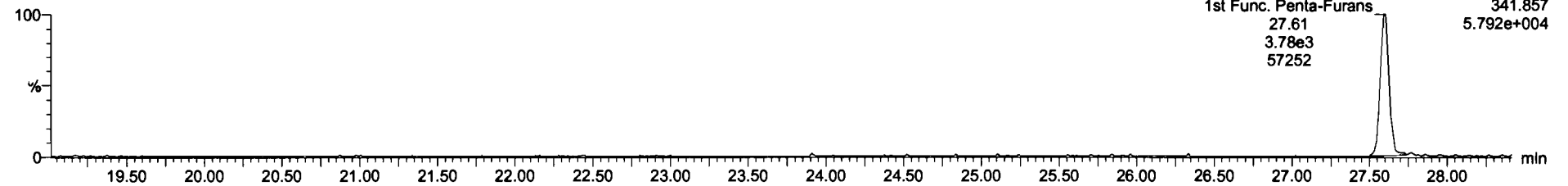
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1st Func. Penta-Furans

200618R1\_11

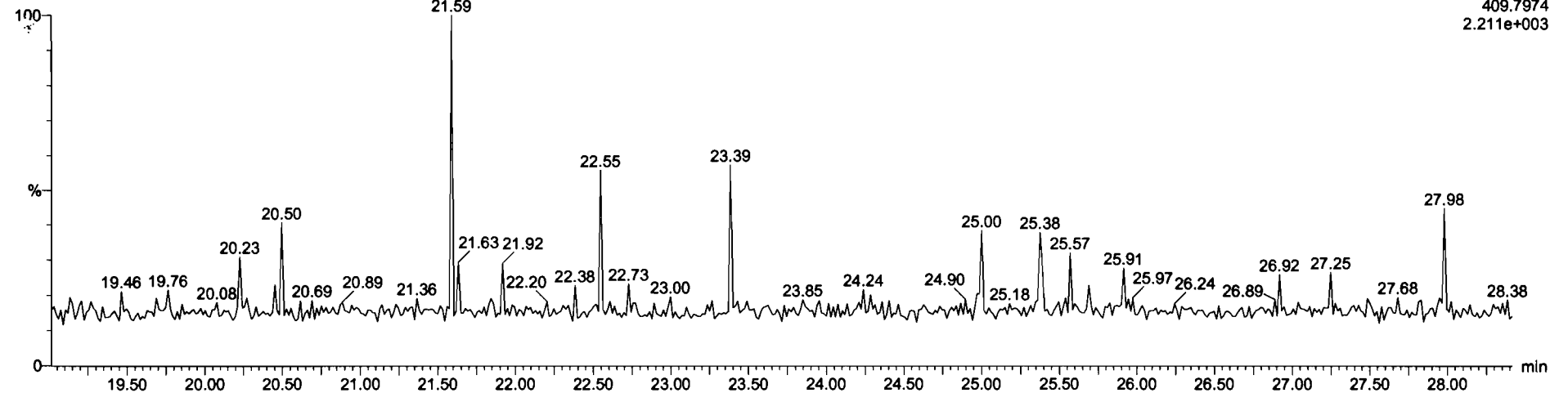


200618R1\_11



DPE6

200618R1\_11

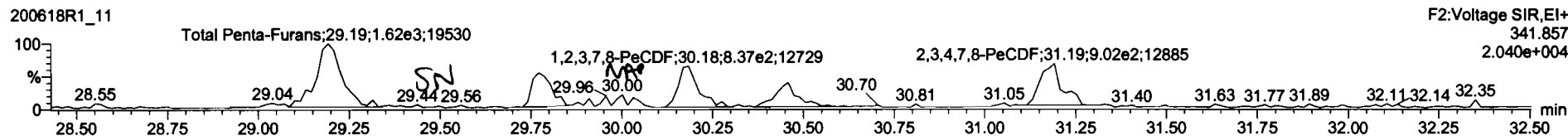
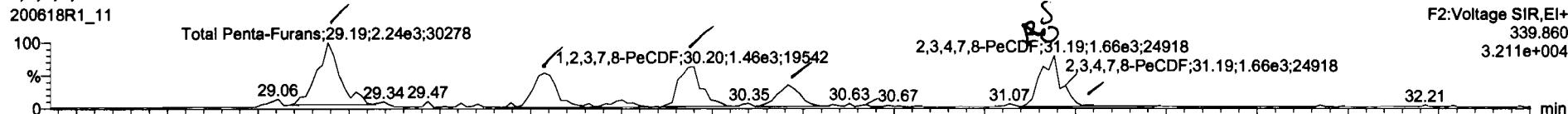


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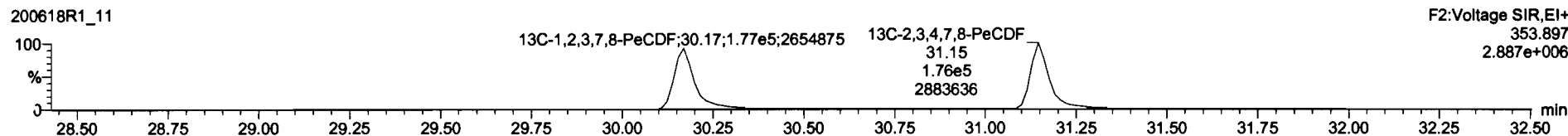
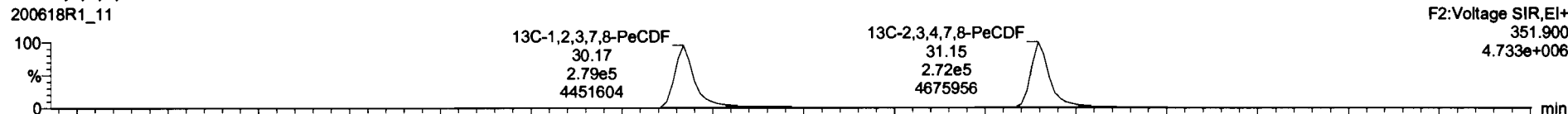
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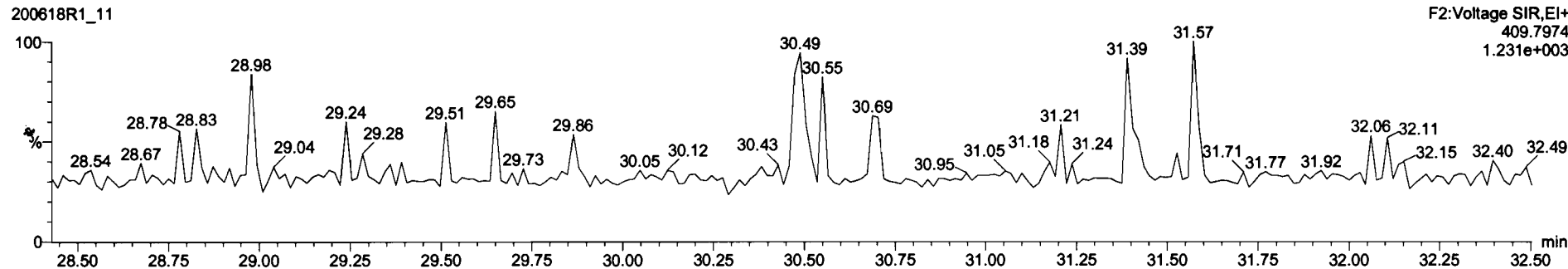
**1,2,3,7,8-PeCDF**

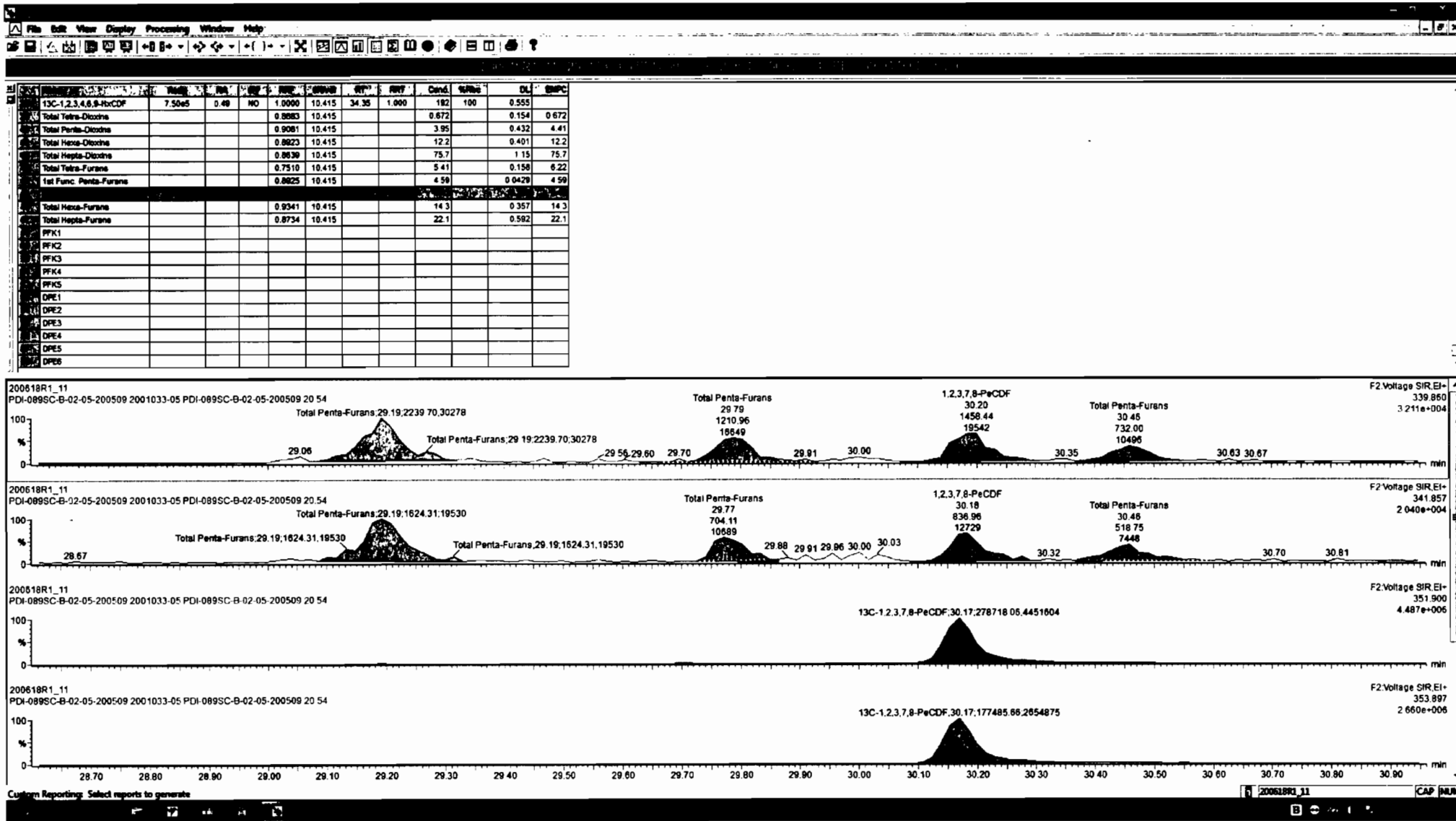


**13C-1,2,3,7,8-PeCDF**

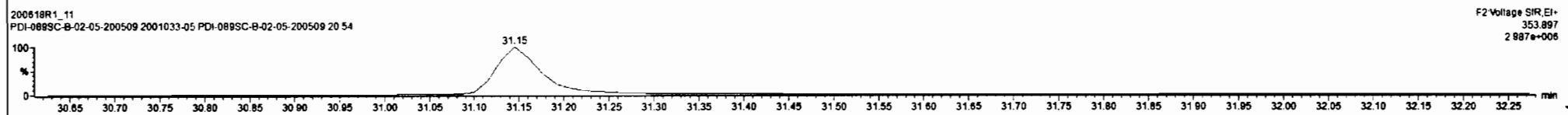
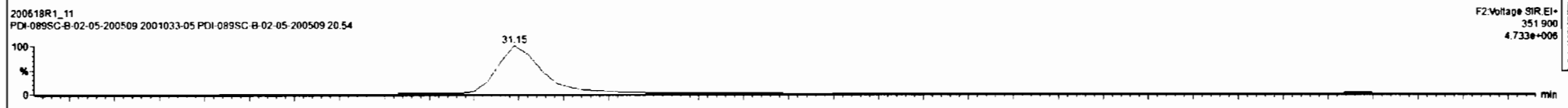
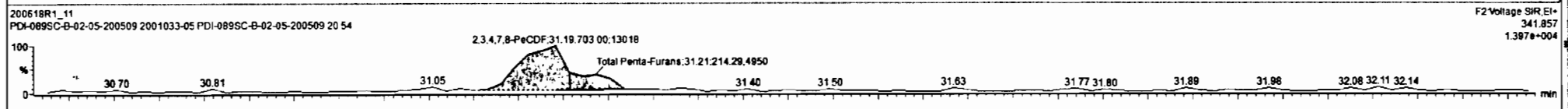
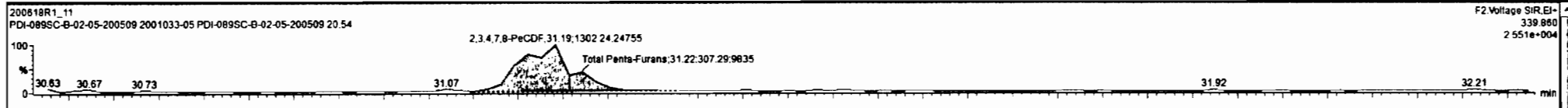


**DPE2**





Component	Concentration	Unit	Method	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width
13C-1,2,3,4,6,9-HxCDF	7.50e5	0.48	NO	1.0090	10.415	34.35	1.000	192	100	0.555		
Total Tetra-Dioxins				0.8663	10.415			0.672		0.154	0.672	
Total Penta-Dioxins				0.9061	10.415			3.95		0.432	4.41	
Total Hexa-Dioxins				0.8823	10.415			12.2		0.401	12.2	
Total Hepta-Dioxins				0.8630	10.415			75.7		1.15	75.7	
Total Tetra-Furans				0.7510	10.415			5.41		0.158	6.22	
1st Func. Penta-Furans				0.8925	10.415			4.59		0.0429	4.59	
Total Hexa-Furans				0.9341	10.415			14.3		0.357	14.3	
Total Hepta-Furans				0.8734	10.415			22.1		0.592	22.1	
PFK1												
PFK2												
PFK3												
PFK4												
PFK5												
DPE1												
DPE2												
DPE3												
DPE4												
DPE5												
DPE6												



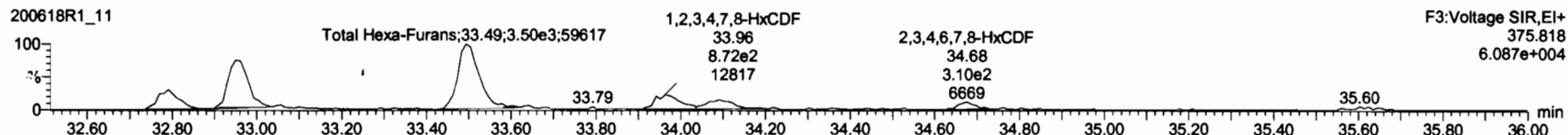
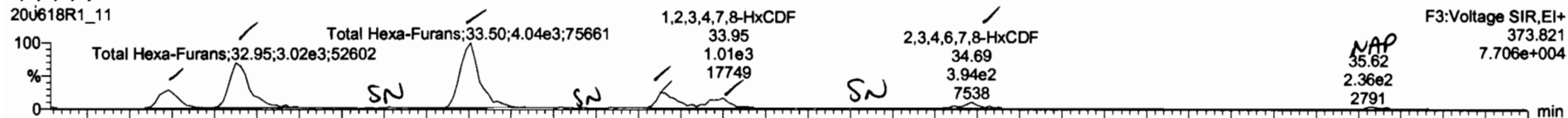


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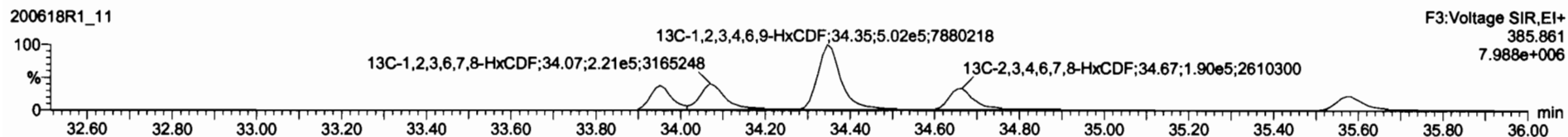
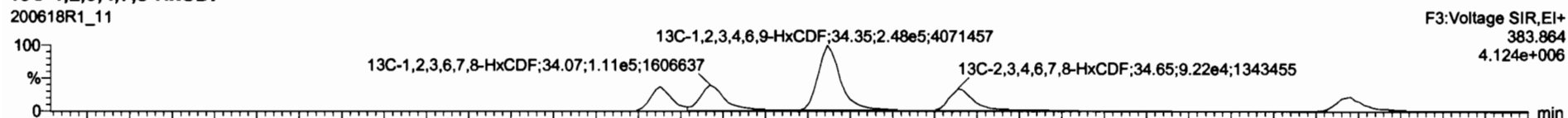
Last Altered: Friday, June 19, 2020 07:32:51 Pacific Daylight Time  
Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1\_11, Date: 18-Jun-2020, Time: 20:49:13, ID: 2001033-05 PDI-089SC-B-02-05-200509 20.54, Description: PDI-089SC-B-02-05-200509

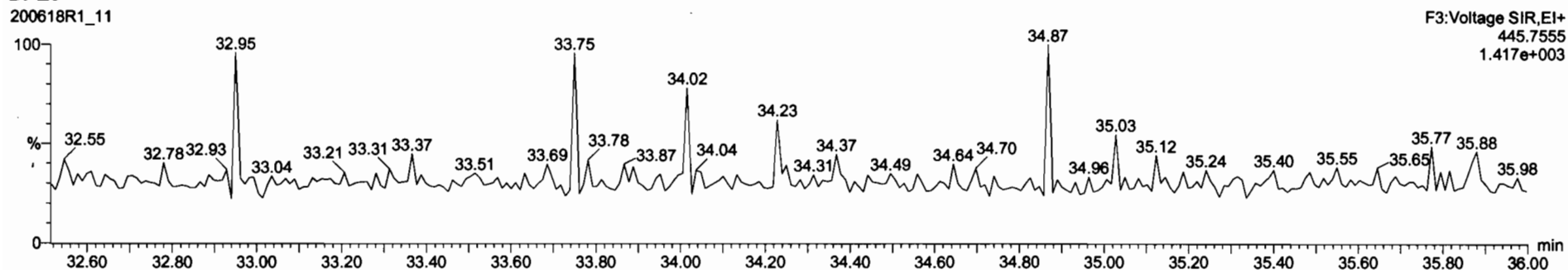
**1,2,3,4,7,8-HxCDF**



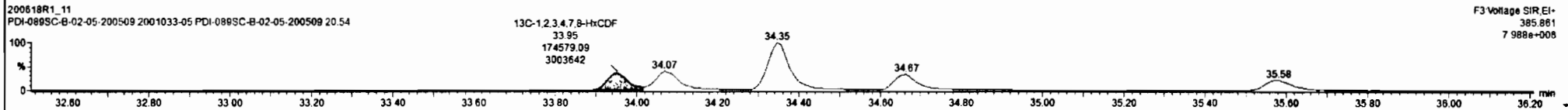
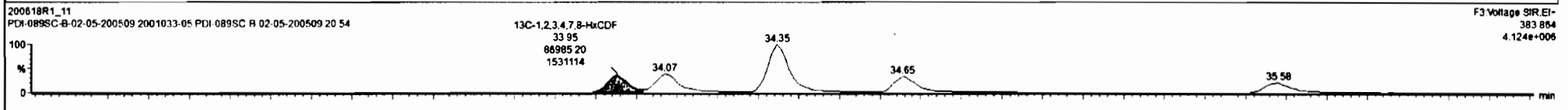
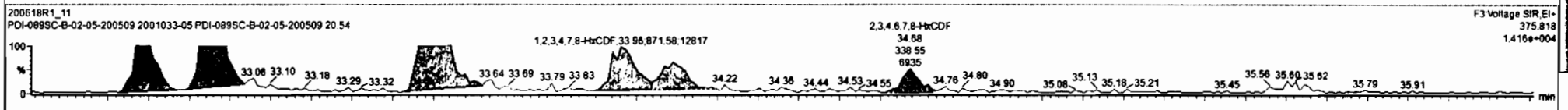
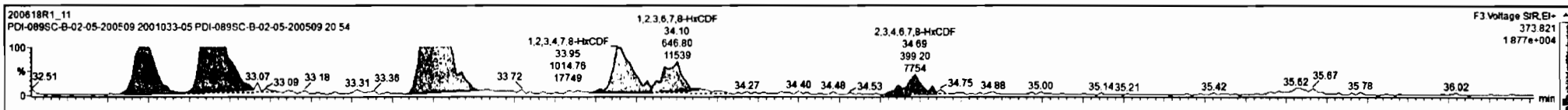
**13C-1,2,3,4,7,8-HxCDF**



**DPE3**



Comp	Total	Area	Height	Width	RT	Area	Height	Width	Area	Height	Area	Height	Area	Height
13C-1,2,3,4,6,8-HxCDF	7.50e5	0.49	NO	1.0000	10.415	34.35	1.000	182	100	0.555				
Total Tetra-Dioxins				0.8883	10.415			0.672		0.154	0.672			
Total Penta-Dioxins				0.9081	10.415			3.95		0.432	4.41			
Total Hexa-Dioxins				0.8823	10.415			12.2		0.401	12.2			
Total Hepta-Dioxins				0.8839	10.415			75.7		1.15	75.7			
Total Tetra-Furans				0.7510	10.415			5.41		0.158	6.22			
1st Func. Penta-Furans				0.8825	10.415			4.59		0.0429	4.59			
Total Penta-Furans				0.8825	10.415			4.68		0.299	5.50			
Total Hepta-Furans				0.8734	10.415			22.1		0.592	22.1			
PFK1														
PFK2														
PFK3														
PFK4														
PFK5														
DPE1														
DPE2														
DPE3														
DPE4														
DPE5														
DPE6														

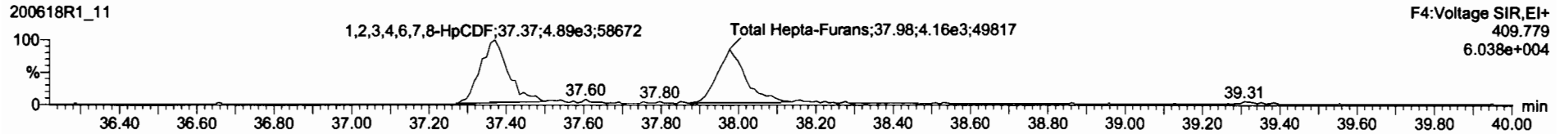
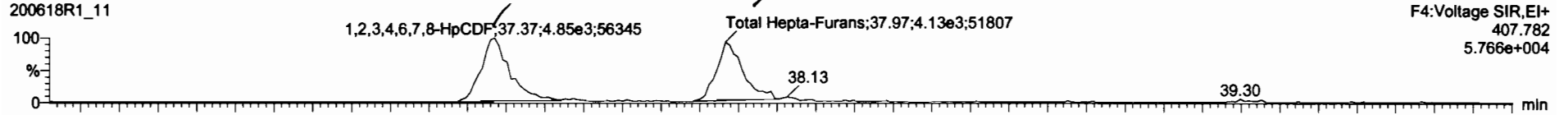


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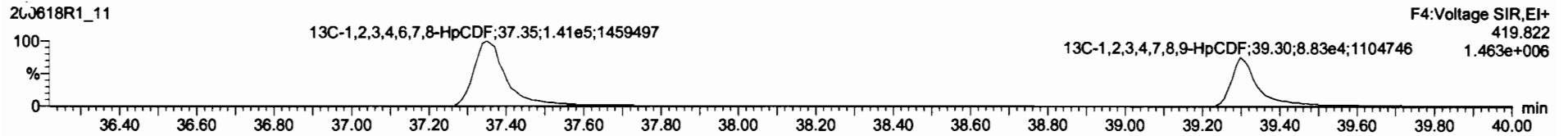
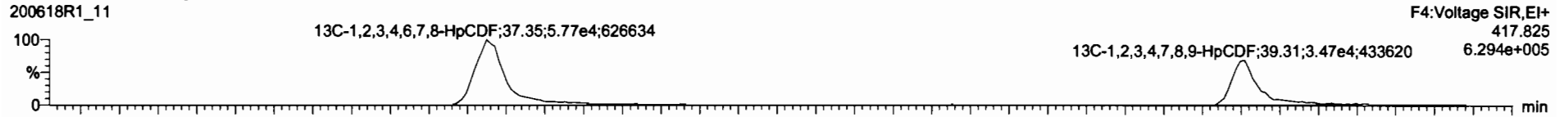
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1\_11, Date: 18-Jun-2020, Time: 20:49:13, ID: 2001033-05 PDI-089SC-B-02-05-200509 20.54, Description: PDI-089SC-B-02-05-200509

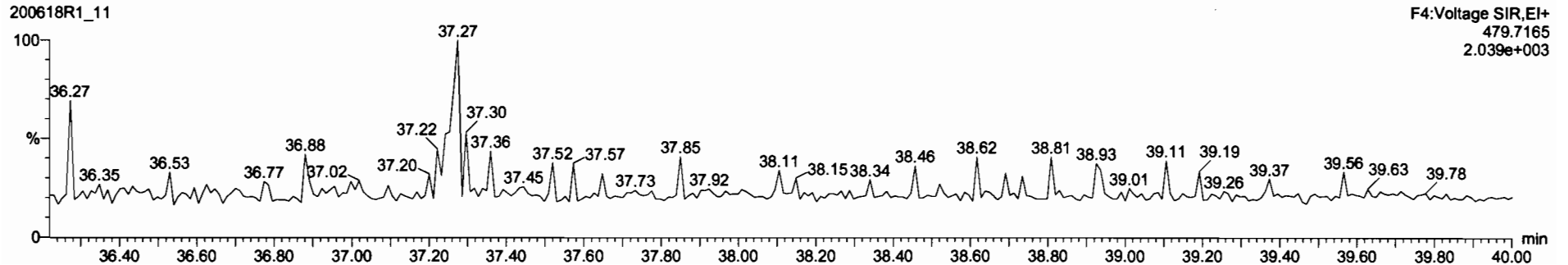
**1,2,3,4,6,7,8-HpCDF**



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



**DPE4**

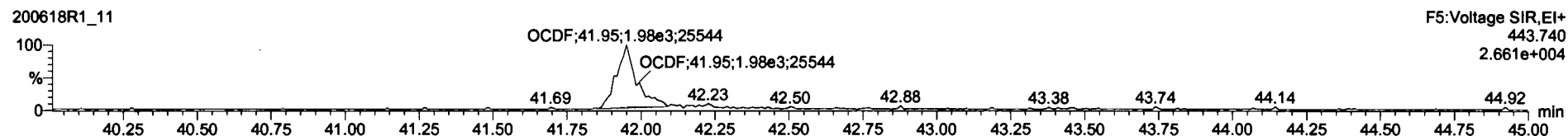
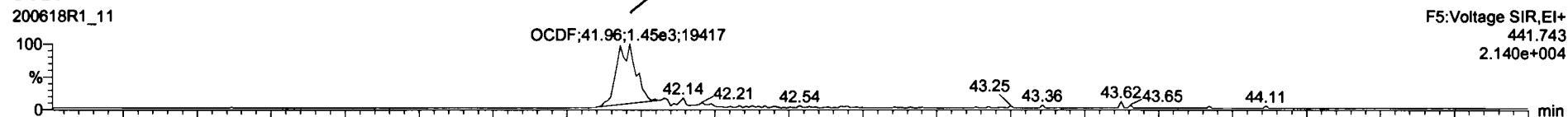


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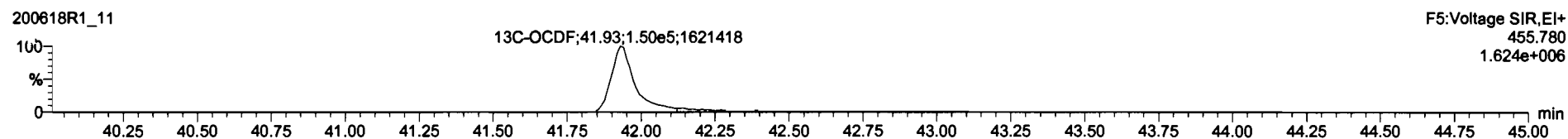
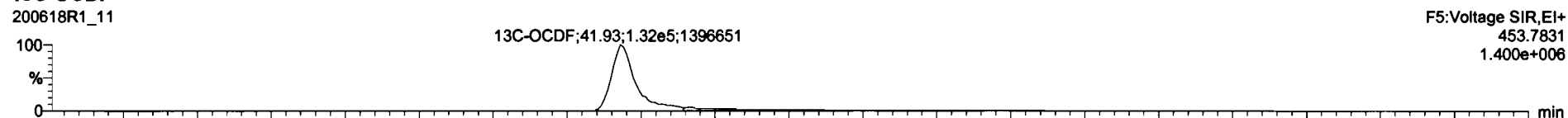
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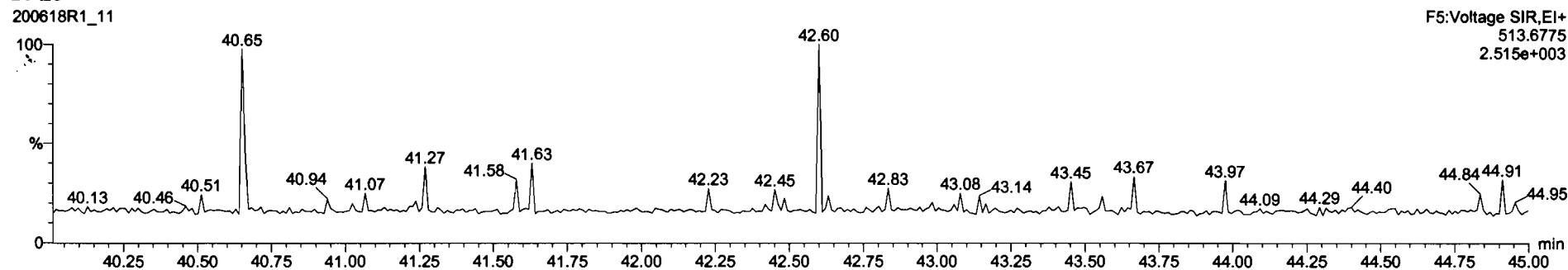
**OCDF**



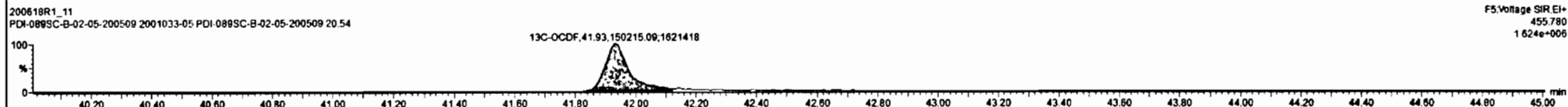
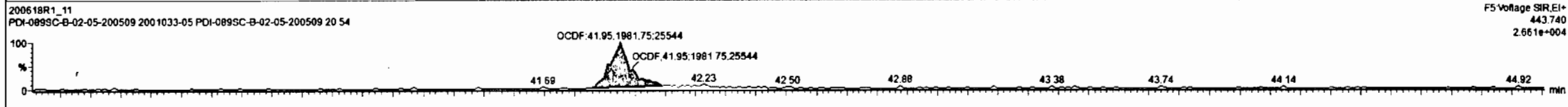
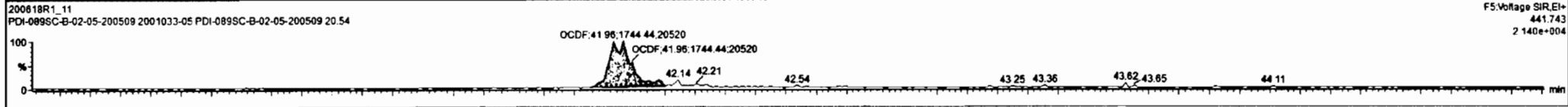
**13C-OCDF**



**DPE5**



CONC	TIME	QTY	UNIT	NAME	CONC	TIME	QTY	UNIT	NAME	CONC	TIME	QTY	UNIT	NAME
2.3,7,8-TCDD				NO	0.8883	10.415								0.154
1,2,3,7,8-PeCDD	5.24e2	1.46	YES	0.9081	10.415	31.51	1.002	0.382						0.432 0.254
1,2,3,4,7,8-HxCDD				NO	1.0334	10.415								0.361
1,2,3,6,7,8-HxCDD	1.30e3	1.23	NO	0.8823	10.415	34.94	1.000	0.958						0.349 0.958
1,2,3,7,8,9-HxCDD				NO	0.8889	10.415								0.454
1,2,3,4,6,7,8-HpCDD	2.35e4	0.93	NO	0.8830	10.415	38.78	1.001	32.5						1.15 32.5
OCDD	1.82e5	0.87	NO	0.9138	10.415	41.78	1.001	311						1.75 311
2,3,7,8-TCDF	1.87e3	0.82	NO	0.7510	10.415	25.60	1.001	0.846						0.158 0.846
1,2,3,7,8-PeCDF	2.30e3	1.74	NO	0.8825	10.415	30.20	1.001	1.08						0.308 1.08
2,3,4,7,8-PeCDF	2.96e3	1.84	YES	0.9348	10.415	31.19	1.001	1.18						0.278 1.08
1,2,3,4,7,8-HxCDF	1.88e3	1.18	NO	0.8845	10.415	33.95	1.000	1.57						0.325 1.57
1,2,3,6,7,8-HxCDF	1.36e3	1.34	NO	0.8882	10.415	34.10	1.001	0.887						0.310 0.887
2,3,4,6,7,8-HxCDF	7.85e2	1.27	NO	0.9341	10.415	34.89	1.001	0.513						0.345 0.513
1,2,3,7,8,9-HxCDF				NO	0.8707	10.415								0.581
1,2,3,4,6,7,8-HpCDF	8.74e3	0.99	NO	0.8734	10.415	37.37	1.001	10.8						0.513 10.8
1,2,3,4,7,8,9-HpCDF				NO	1.0128	10.415								0.821
13C-2,3,7,8-TCDD	4.09e5	0.80	NO	1.1563	10.415	26.48	1.025	81.9	42.7					0.246
13C-1,2,3,7,8-PeCDD	2.90e5	0.85	NO	0.8490	10.415	31.45	1.218	79.0	41.1					0.279
13C-1,2,3,4,7,8-HxCDD	2.81e5	1.31	NO	0.7790	10.415	34.83	1.014	86.2	34.5					0.477
13C-1,2,3,6,7,8-HxCDD	3.12e5	1.28	NO	1.0167	10.415	34.93	1.017	78.6	40.9					0.306

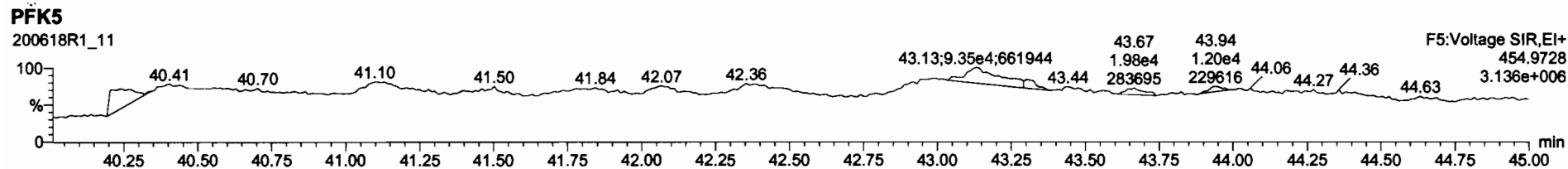
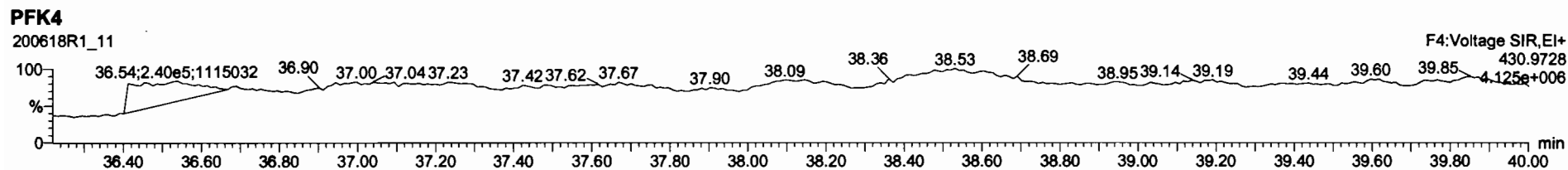
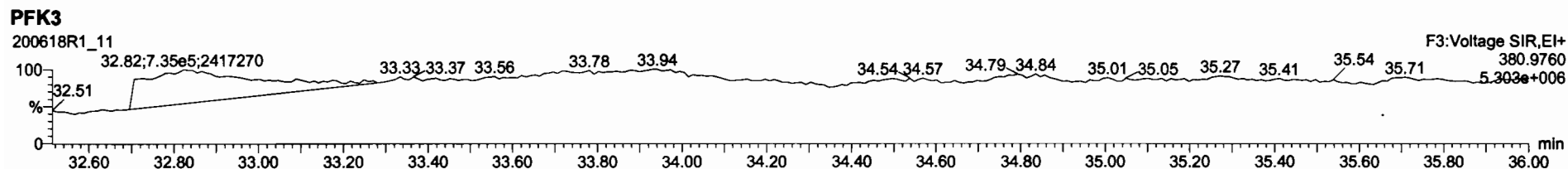
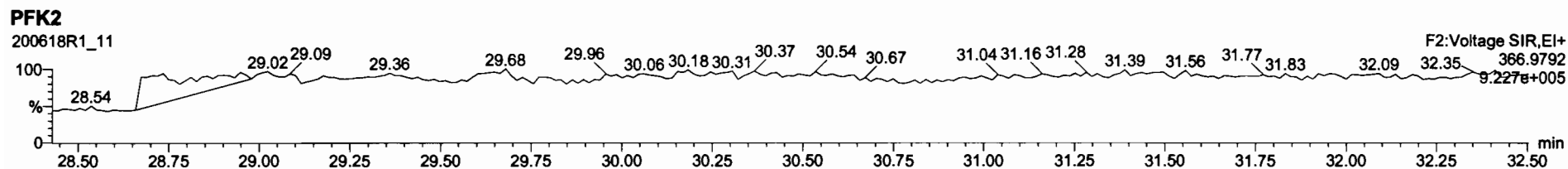
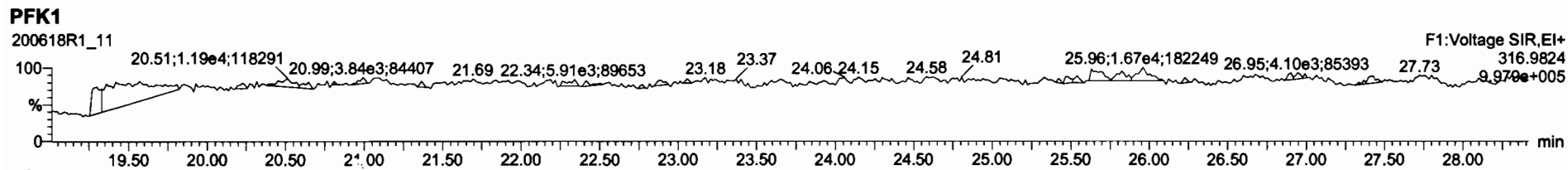


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Last Altered: Friday, June 19, 2020 07:32:51 Pacific Daylight Time

Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1\_11, Date: 18-Jun-2020, Time: 20:49:13, ID: 2001033-05 PDI-089SC-B-02-05-200509 20.54, Description: PDI-089SC-B-02-05-200509



Dataset: U:\VG12.PRO\Results\200618R1\200618R1-12.qld

Last Altered: Friday, July 10, 2020 10:57:09 AM Pacific Daylight Time  
Printed: Friday, July 10, 2020 10:57:25 AM Pacific Daylight Time

*GPB 07/10/2020*

*C7 07/10/2020*

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: 200618R1\_12, Date: 18-Jun-2020, Time: 21:35:26, ID: 2001033-06 PDI-089SC-B-05-07-200509 25.5, Description: PDI-089SC-B-05-07-200509

Resp	RA	n/y	RRF	WV	Pr	RD	RT	RRF	RRF	RRF	RRF	RRF	RRF
1 2,3,7,8-TCDD		NO	0.888	12.062	26.501			1.001					0.0664
2 1,2,3,7,8-PeCDD	3.06e2	0.87	YES	0.908	12.062	31.457	31.45	1.001	1.001	0.10111			0.111 0.0881
3 1,2,3,4,7,8-HxCDD		NO	1.03	12.062	34.835			1.000					0.166
4 1,2,3,6,7,8-HxCDD	2.31e3	1.26	NO	0.892	12.062	34.932	34.94	1.000	1.000	0.76282			0.164 0.763
5 1,2,3,7,8,9-HxCDD		NO	0.887	12.062	35.219			1.000					0.213
6 1,2,3,4,6,7,8-HpCDD	6.39e4	1.06	NO	0.864	12.062	38.767	38.77	1.000	1.000	36.656			0.718 36.7
7 OCDD	6.73e5	0.87	NO	0.914	12.062	41.759	41.77	1.000	1.000	464.85			1.38 465
8 2,3,7,8-TCDF		NO	0.751	12.062	25.597			1.001					0.0678
9 1,2,3,7,8-PeCDF		NO	0.893	12.062	30.175			1.001					0.0760
10 2,3,4,7,8-PeCDF	1.47e3	1.76	NO	0.935	12.062	31.177	31.19	1.001	1.001	0.30487			0.0718 0.305
11 1,2,3,4,7,8-HxCDF	7.87e2	1.19	NO	0.884	12.062	33.952	33.96	1.000	1.000	0.30393			0.108 0.304
12 1,2,3,6,7,8-HxCDF	1.93e3	1.18	NO	0.889	12.062	34.079	34.09	1.000	1.001	0.57351			0.0981 0.574
13 2,3,4,6,7,8-HxCDF	1.10e3	1.07	NO	0.934	12.062	34.690	34.65	1.001	1.000	0.36164			0.106 0.362
14 1,2,3,7,8,9-HxCDF		NO	0.871	12.062	35.571			1.000					0.170
15 1,2,3,4,6,7,8-HpCDF	2.05e4	1.00	NO	0.873	12.062	37.386	37.36	1.001	1.000	10.213			0.259 10.2
16 1,2,3,4,7,8,9-HpCDF		NO	1.01	12.062	39.299			1.000					0.305
17 OCDF	7.84e3	0.86	NO	0.806	12.062	41.940	41.96	1.000	1.001	5.3334			0.210 5.33
18 13C-2,3,7,8-TCDD	7.79e5	0.79	NO	1.16	12.062	26.491	26.47	1.026	1.026	132.22	79.7		0.257
19 13C-1,2,3,7,8-PeCDD	5.53e5	0.68	NO	0.849	12.062	31.674	31.43	1.227	1.218	127.72	77.0		0.352
20 13C-1,2,3,4,7,8-HxCDD	3.50e5	1.31	NO	0.779	12.062	34.830	34.83	1.014	1.014	101.68	61.3		0.553
21 13C-1,2,3,6,7,8-HxCDD	5.62e5	1.39	NO	1.02	12.062	34.944	34.93	1.017	1.017	125.10	75.4		0.424
22 13C-1,2,3,7,8,9-HxCDD	4.30e5	1.27	NO	0.903	12.062	35.215	35.21	1.025	1.025	107.95	65.1		0.477
23 13C-1,2,3,4,6,7,8-HpCDD	3.34e5	1.08	NO	0.689	12.062	38.739	38.76	1.128	1.128	109.84	66.2		0.633
24 13C-OCDD	5.26e5	0.90	NO	0.652	12.062	41.761	41.76	1.216	1.216	182.46	55.0		0.626
25 13C-2,3,7,8-TCDF	1.03e6	0.77	NO	1.06	12.062	25.534	25.57	0.989	0.991	122.47	73.9		0.253
26 13C-1,2,3,7,8-PeCDF	8.41e5	1.52	NO	0.838	12.062	30.058	30.15	1.165	1.168	126.52	76.3		0.567
27 13C-2,3,4,7,8-PeCDF	8.53e5	1.70	NO	0.817	12.062	31.011	31.15	1.202	1.207	131.68	79.4		0.582
28 13C-1,2,3,4,7,8-HxCDF	4.86e5	0.50	NO	1.01	12.062	33.961	33.95	0.989	0.989	109.11	65.8		0.592
29 13C-1,2,3,6,7,8-HxCDF	6.29e5	0.51	NO	1.17	12.062	34.085	34.07	0.992	0.992	122.02	73.6		0.511
30 13C-2,3,4,6,7,8-HxCDF	5.38e5	0.49	NO	1.02	12.062	34.659	34.65	1.009	1.009	119.11	71.8		0.584
31 13C-1,2,3,7,8,9-HxCDF	4.30e5	0.48	NO	0.860	12.062	35.558	35.57	1.035	1.036	113.31	68.3		0.694

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-12.qld

Last Altered: Friday, July 10, 2020 10:57:09 AM Pacific Daylight Time

Printed: Friday, July 10, 2020 10:57:25 AM Pacific Daylight Time

Name: 200618R1\_12, Date: 18-Jun-2020, Time: 21:35:26, ID: 2001033-06 PDI-089SC-B-05-07-200509 25.5, Description: PDI-089SC-B-05-07-200509

	RA	n/y	RRF	RRF	RRF	RRF	RRF	RRF	RRF	RRF	RRF	RRF	RRF
32 13C-1,2,3,4,6,7,8-HpCDF	3.81e5	0.42	NO	0.774	12.062	37.307	37.35	1.086	1.087	111.39	67.2	0.653	
33 13C-1,2,3,4,7,8,9-HpCDF	2.49e5	0.39	NO	0.521	12.062	39.336	39.30	1.145	1.144	108.23	65.3	0.971	
34 13C-OCDF	6.04e5	0.87	NO	0.746	12.062	41.933	41.94	1.221	1.221	183.43	55.3	0.483	
35 37Cl-2,3,7,8-TCDD	3.74e5			1.04	12.062	26.522	26.48	1.028	1.026	70.726	107	0.109	
36 13C-1,2,3,4-TCDD	8.45e5	0.79	NO	1.00	12.062	25.890	25.81	1.000	1.000	165.81	100	0.297	
37 13C-1,2,3,4-TCDF	1.32e6	0.79	NO	1.00	12.062	24.360	24.13	1.000	1.000	165.81	100	0.267	
38 13C-1,2,3,4,6,9-HxCDF	7.32e5	0.52	NO	1.00	12.062	34.420	34.35	1.000	1.000	165.81	100	0.597	
39 Total Tetra-Dioxins				0.888	12.062	24.620		0.000				0.0343	
40 Total Penta-Dioxins				0.908	12.062	29.960		0.000		0.44756		0.111	0.894
41 Total Hexa-Dioxins				0.892	12.062	33.635		0.000		7.6052		0.187	7.61
42 Total Hepta-Dioxins				0.864	12.062	37.640		0.000		83.689		0.718	83.7
43 Total Tetra-Furans				0.751	12.062	23.610		0.000		2.1080		0.0678	2.11
44 1st Func. Penta-Furans				0.893	12.062	27.580		0.000		3.5928		0.0244	3.59
45 Total Penta-Furans				0.893	12.062	29.275		0.000		2.2055		0.0756	2.21
46 Total Hexa-Furans				0.934	12.062	33.555		0.000		12.191		0.112	12.2
47 Total Hepta-Furans				0.873	12.062	37.835		0.000		22.964		0.297	23.0



Dataset: U:\VG12.PRO\Results\200618R1\200618R1-12.qld

Last Altered: Friday, July 10, 2020 10:57:09 AM Pacific Daylight Time  
Printed: Friday, July 10, 2020 10:57:25 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: 200618R1\_12, Date: 18-Jun-2020, Time: 21:35:26, ID: 2001033-06 PDI-089SC-B-05-07-200509 25.5, Description: PDI-089SC-B-05-07-200509

**Tetra-Dioxins**

RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PA	Resp	Comp	File
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**Penta-Dioxins**

RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PA	Resp	Comp	File			
Total Penta-Dioxins	29.25	5.847e3	7.697e3	4.177e2	6.157e2	0.68	NO	1.033e3	0.34147	0.34147	0.111
Total Penta-Dioxins	30.20	6.463e3	5.106e3	2.987e2	3.242e2	0.92	YES	0.000e0	0.00000	0.17461	0.111
Total Penta-Dioxins	30.40	3.069e3	3.767e3	1.566e2	1.840e2	0.85	YES	0.000e0	0.00000	0.099080	0.111
Total Penta-Dioxins	30.50	1.938e3	4.128e3	1.360e2	1.568e2	0.87	YES	0.000e0	0.00000	0.084463	0.111
Total Penta-Dioxins	30.72	1.880e3	2.378e3	1.141e2	2.070e2	0.55	NO	3.211e2	0.10609	0.10609	0.111
1,2,3,7,8-PeCDD	31.45	3.565e3	2.836e3	1.425e2	1.635e2	0.87	YES	3.060e2	0.00000	0.088065	0.111

**Hexa-Dioxins**

RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PA	Resp	Comp	File			
Total Hexa-Dioxins	33.32	6.188e4	4.572e4	3.492e3	2.956e3	1.18	NO	6.448e3	2.6780	2.6780	0.187
Total Hexa-Dioxins	33.89	7.445e3	6.006e3	4.419e2	3.483e2	1.27	NO	7.902e2	0.32818	0.32818	0.187
Total Hexa-Dioxins	34.15	6.508e4	5.201e4	4.473e3	3.593e3	1.25	NO	8.067e3	3.3504	3.3504	0.187
Total Hexa-Dioxins	34.22	1.187e4	9.292e3	6.215e2	5.479e2	1.13	NO	1.169e3	0.48572	0.48572	0.187
1,2,3,6,7,8-HxCDD	34.94	2.112e4	1.477e4	1.284e3	1.022e3	1.26	NO	2.307e3	0.76282	0.76282	0.164

**Hepta-Dioxins**

RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PA	Resp	Comp	File			
Total Hepta-Dioxins	37.75	4.610e5	4.269e5	4.115e4	4.080e4	1.01	NO	8.195e4	47.033	47.033	0.718
1,2,3,4,6,7,8-HpCDD	38.77	3.655e5	3.488e5	3.287e4	3.100e4	1.06	NO	6.387e4	36.656	36.656	0.718

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-12.qld

Last Altered: Friday, July 10, 2020 10:57:09 AM Pacific Daylight Time

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Name: 200618R1\_12, Date: 18-Jun-2020, Time: 21:35:26, ID: 2001033-06 PDI-089SC-B-05-07-200509 25.5, Description: PDI-089SC-B-05-07-200509

**Tetra-Furans**

Retention Time	Area	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Peak	Area	Area	Area	
Total Tetra-Furans	20.86	2.979e3	5.311e3	2.612e2	3.921e2	0.67	NO	6.533e2	0.14018	0.14018	0.0678
Total Tetra-Furans	21.50	1.806e4	2.758e4	1.646e3	2.376e3	0.69	NO	4.022e3	0.86304	0.86304	0.0678
Total Tetra-Furans	22.44	7.505e3	9.984e3	6.280e2	8.332e2	0.75	NO	1.461e3	0.31352	0.31352	0.0678
Total Tetra-Furans	22.94	6.766e3	1.118e4	6.969e2	9.913e2	0.70	NO	1.688e3	0.36224	0.36224	0.0678
Total Tetra-Furans	24.06	5.619e3	1.264e4	5.309e2	7.758e2	0.68	NO	1.307e3	0.28039	0.28039	0.0678
Total Tetra-Furans	27.61	4.365e3	6.121e3	2.848e2	4.079e2	0.70	NO	6.927e2	0.14863	0.14863	0.0678

**Penta-Furans function 1**

Retention Time	Area	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Peak	Area	Area	Area	
1st Func. Penta-Furans	27.59	1.631e5	1.045e5	1.008e4	6.303e3	1.60	NO	1.638e4	3.5928	3.5928	0.0244

**Penta-Furans**

Retention Time	Area	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Peak	Area	Area	Area	
Total Penta-Furans	29.18	3.972e4	2.470e4	2.539e3	1.829e3	1.39	NO	4.369e3	0.95811	0.95811	0.0756
Total Penta-Furans	29.24	7.914e3	5.474e3	4.087e2	3.039e2	1.34	NO	7.126e2	0.15628	0.15628	0.0756
Total Penta-Furans	29.76	2.227e4	1.442e4	1.457e3	8.624e2	1.69	NO	2.319e3	0.50861	0.50861	0.0756
Total Penta-Furans	30.44	9.719e3	4.467e3	5.339e2	3.049e2	1.75	NO	8.388e2	0.18394	0.18394	0.0756
2,3,4,7,8-PeCDF	31.19	1.628e4	9.673e3	9.340e2	5.322e2	1.76	NO	1.466e3	0.30487	0.30487	0.0718
Total Penta-Furans	31.21	8.710e3	6.198e3	2.623e2	1.650e2	1.59	NO	4.273e2	0.093703	0.093703	0.0756

**Hexa-Furans**

Retention Time	Area	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Peak	Area	Area	Area	
Total Hexa-Furans	32.78	3.931e4	3.657e4	2.449e3	2.069e3	1.18	NO	4.519e3	1.5405	1.5405	0.112
Total Hexa-Furans	32.94	9.960e4	8.402e4	6.088e3	5.360e3	1.14	NO	1.145e4	3.9029	3.9029	0.112
Total Hexa-Furans	33.49	1.539e5	1.284e5	8.357e3	6.953e3	1.20	NO	1.531e4	5.2193	5.2193	0.112
Total Hexa-Furans	33.57	8.734e3	1.053e4	4.472e2	4.021e2	1.11	NO	8.492e2	0.28952	0.28952	0.112
1,2,3,4,7,8-HxCDF	33.96	8.774e3	6.321e3	4.285e2	3.588e2	1.19	NO	7.874e2	0.30393	0.30393	0.108
1,2,3,6,7,8-HxCDF	34.09	1.339e4	1.279e4	1.046e3	8.887e2	1.18	NO	1.935e3	0.57351	0.57351	0.0981
2,3,4,6,7,8-HxCDF	34.65	7.818e3	8.857e3	5.656e2	5.298e2	1.07	NO	1.095e3	0.36164	0.36164	0.106

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Name: 200618R1\_12, Date: 18-Jun-2020, Time: 21:35:26, ID: 2001033-06 PDI-089SC-B-05-07-200509 25.5, Description: PDI-089SC-B-05-07-200509

Hepta-Furans

Compound	Area	Height	Height	Area	Area	Ratio	NO	Area	Area	Area	
1,2,3,4,6,7,8-HpCDF	37.36	1.209e5	1.205e5	1.026e4	1.024e4	1.00	NO	2.050e4	10.213	10.213	0.259
Total Hepta-Furans	37.97	1.155e5	1.113e5	1.065e4	1.052e4	1.01	NO	2.116e4	12.750	12.750	0.297

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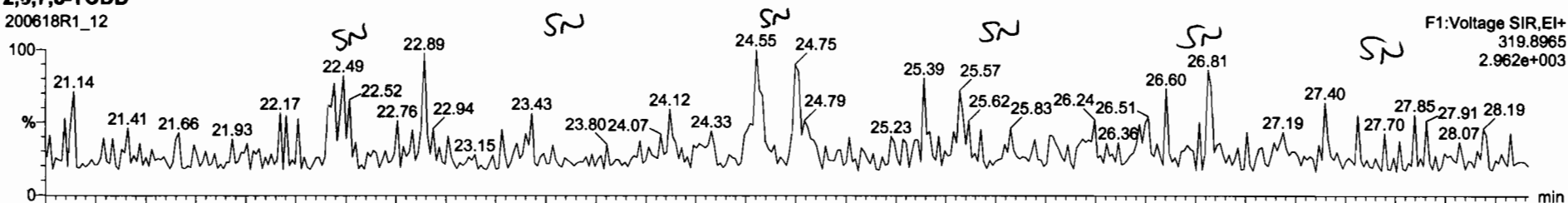
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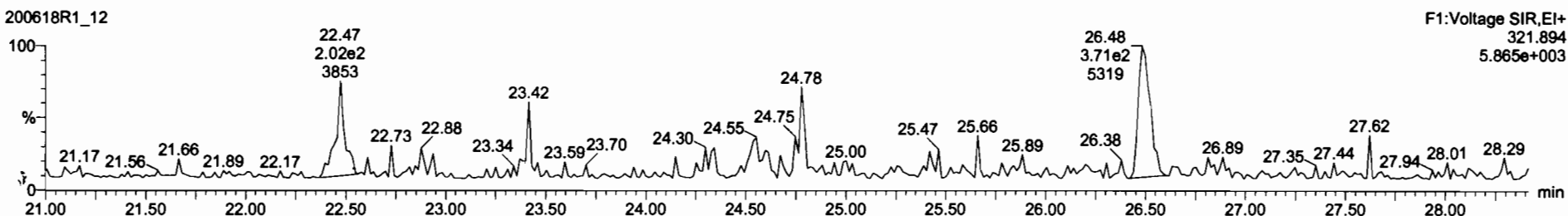
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200618R1\_12



F1:Voltage SIR,EI+  
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2.962e+003

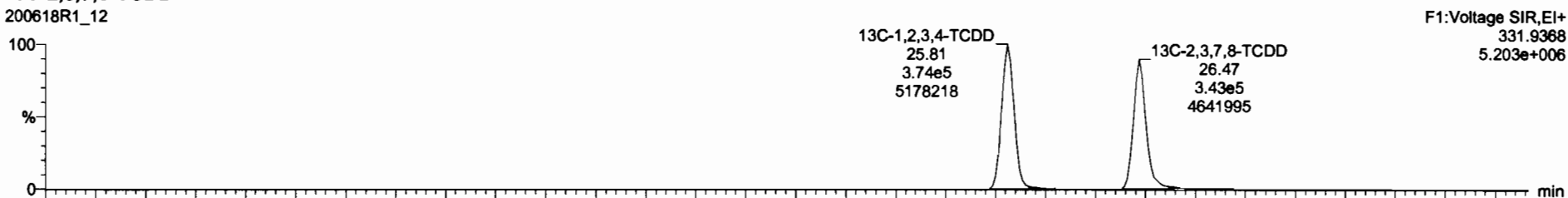
200618R1\_12



F1:Voltage SIR,EI+  
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5.865e+003

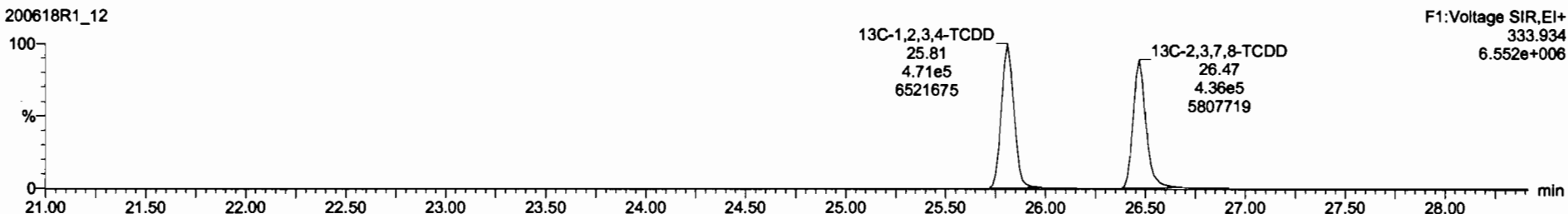
**13C-2,3,7,8-TCDD**

200618R1\_12



F1:Voltage SIR,EI+  
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5.203e+006

200618R1\_12



F1:Voltage SIR,EI+  
333.934  
6.552e+006

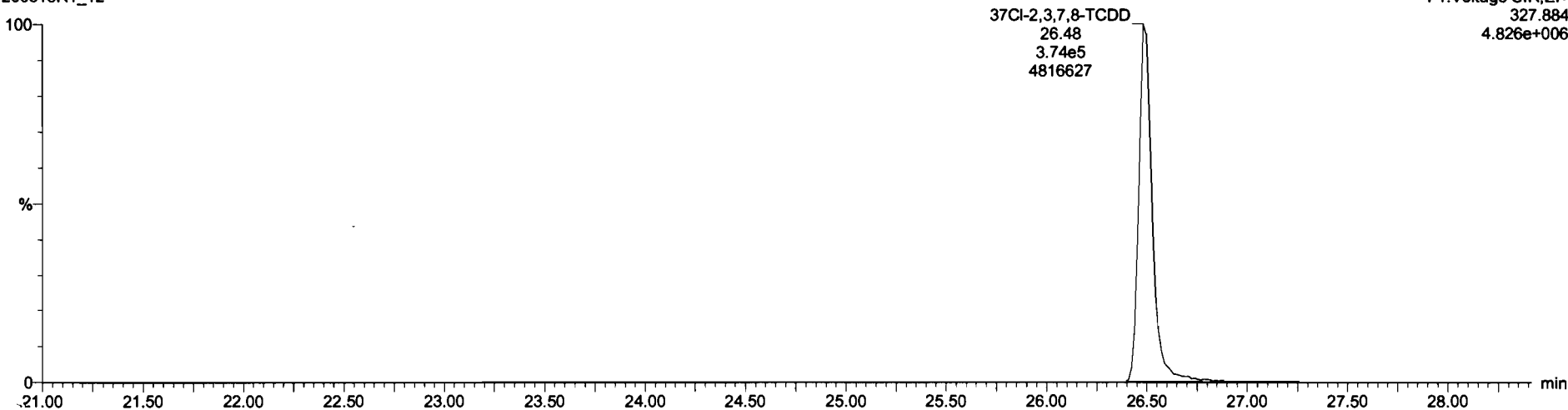
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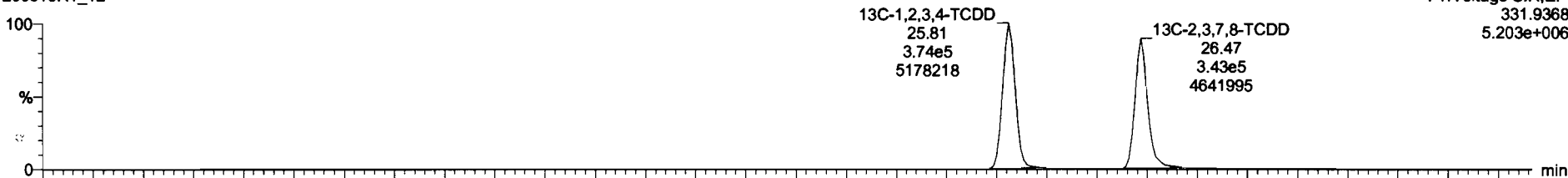
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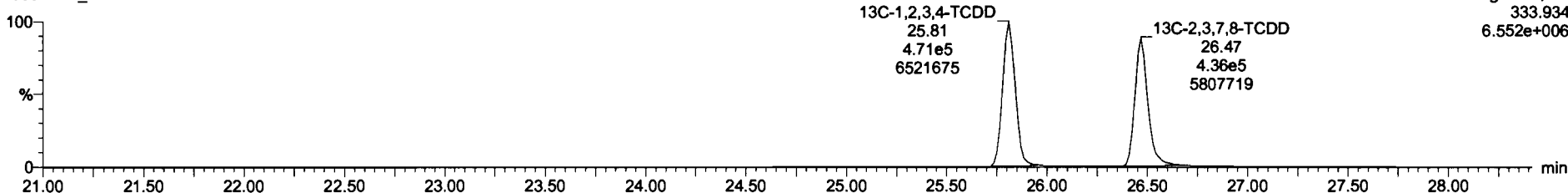


**13C-1,2,3,4-TCDD**

200618R1\_12



200618R1\_12



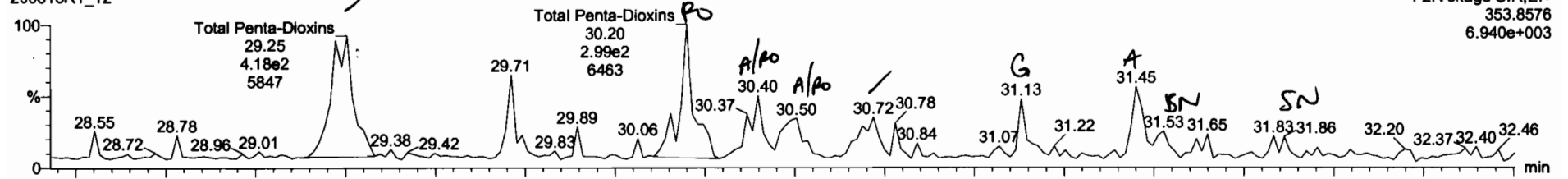
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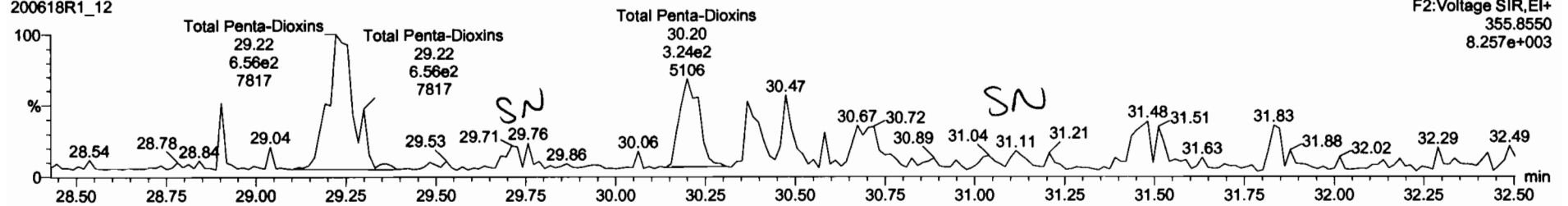
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1,2,3,7,8-PeCDD

200618R1\_12

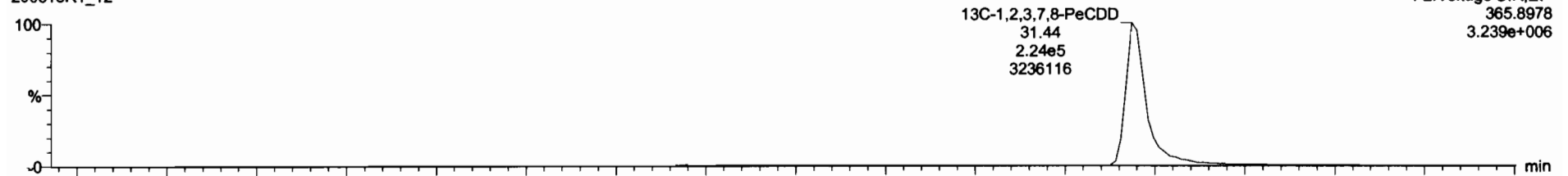


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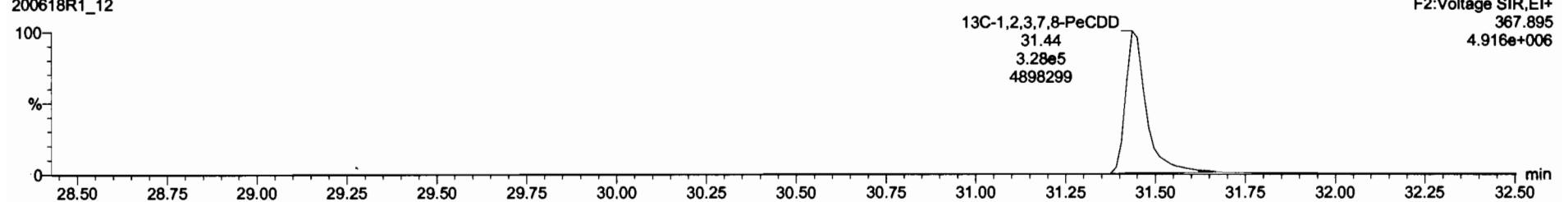


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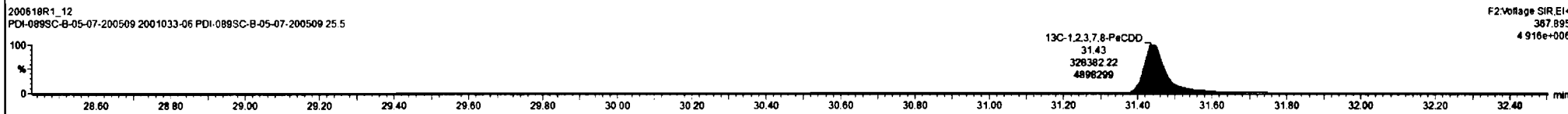
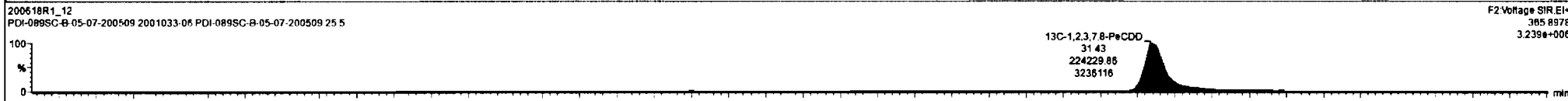
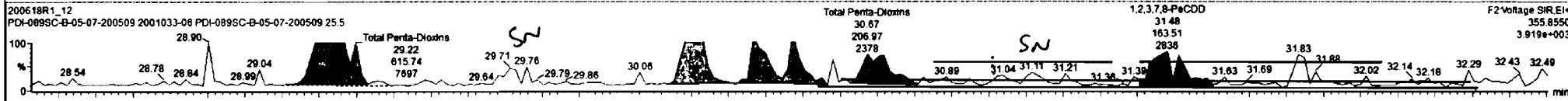
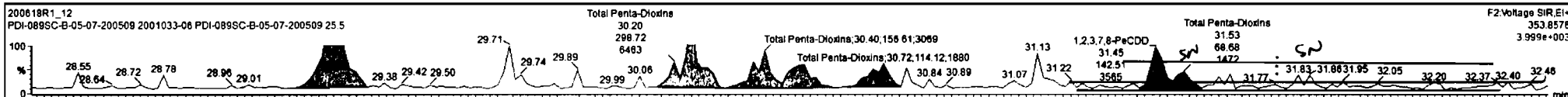
200618R1\_12



200618R1\_12



NAME	CONC	UNIT	REMARKS	DATE	TIME	IN	OUT
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Total Tetra-Dioxins				0.8963	12.062		
Total Hexa-Dioxins				0.8923	12.062		3.27
Total Hepta-Dioxins				0.8839	12.062		86.4
Total Tetra-Furans				0.7510	12.062		1.43
1st Func. Penta-Furans				0.8925	12.062		3.59
Total Penta-Furans				0.8925	12.062		2.24
Total Hexa-Furans				0.9341	12.062		11.2
Total Hepta-Furans				0.8734	12.062		23.0
PFK1							
PFK2							
PFK3							
PFK4							
PFK5							
DPE1							
DPE2							
DPE3							
DPE4							
DPE5							
DPE6							



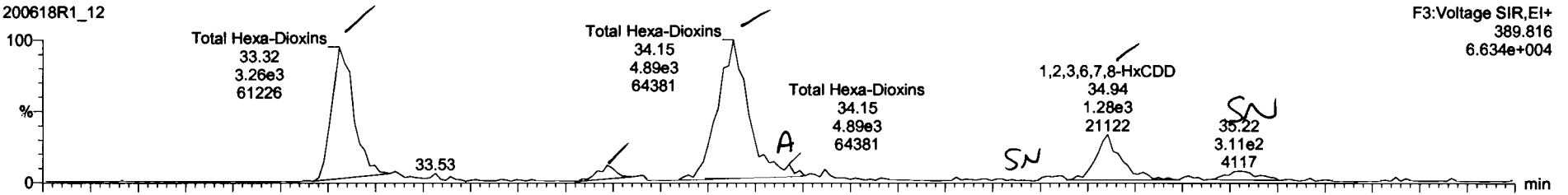
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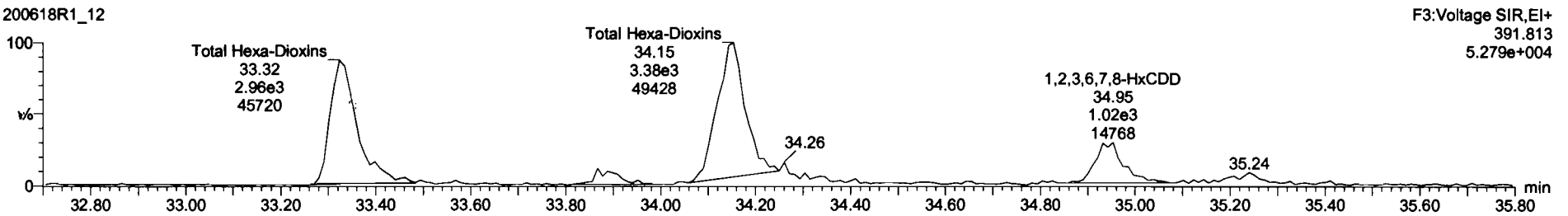
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1,2,3,4,7,8-HxCDD

200618R1\_12

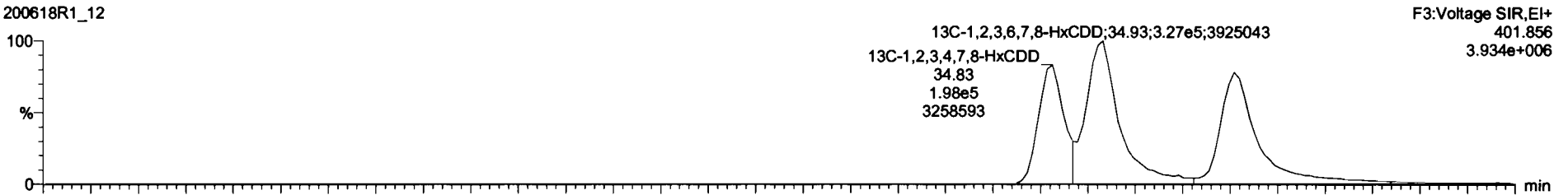


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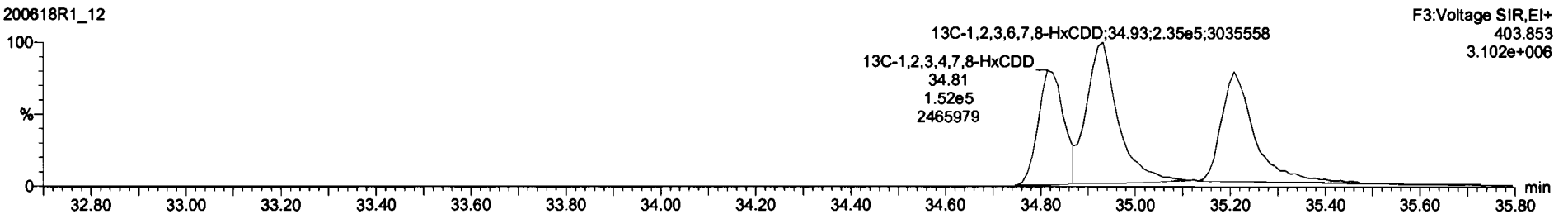


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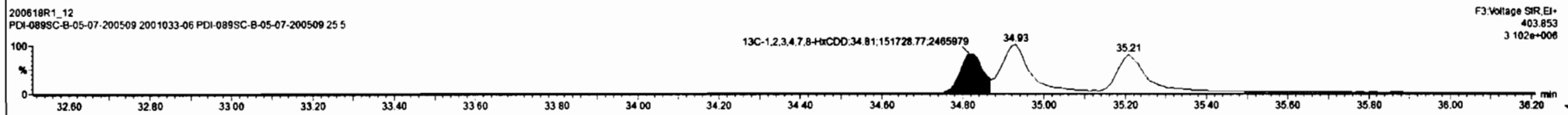
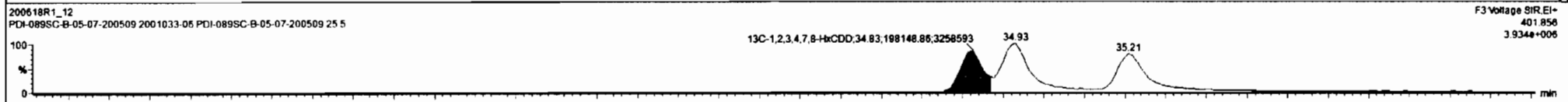
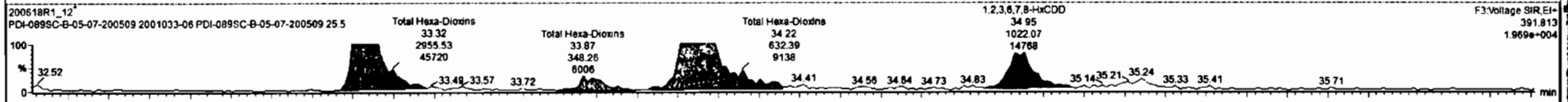
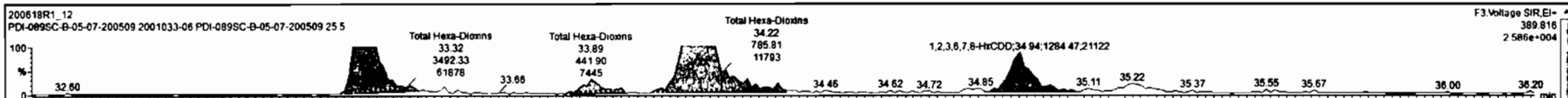


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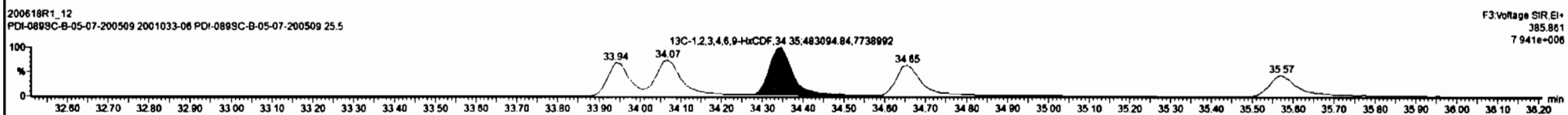
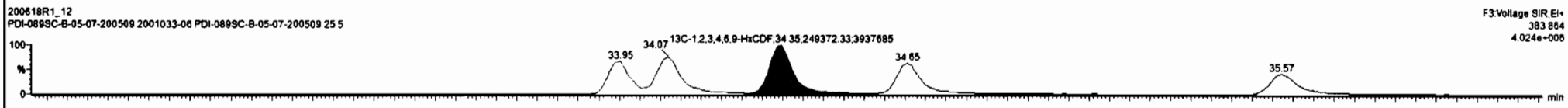
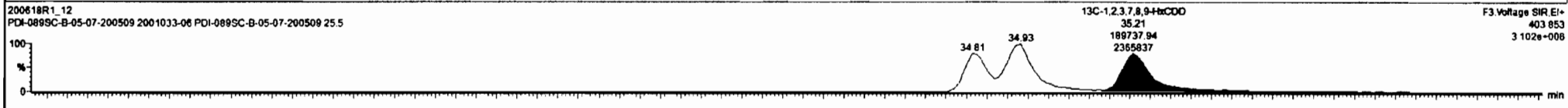
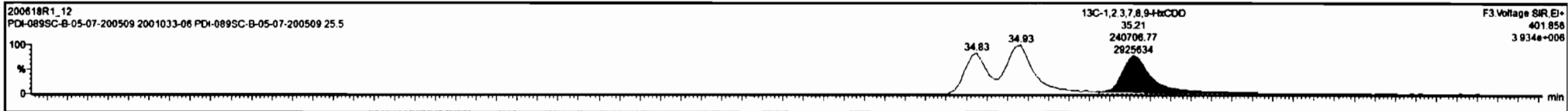




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Total Tetra-Dioxins	0.8683	12.062		34.35
Total Penta-Dioxins	0.9081	12.062		1.000
Total Hexa-Dioxins	0.8639	12.062		196
Total Hepta-Dioxins	0.7510	12.062		100
Total Tetra-Furans	0.8625	12.062		86.4
1st Func. Penta-Furans	0.8625	12.062		0.0678
Total Penta-Furans	0.9341	12.062		1.99
Total Hexa-Furans	0.8734	12.062		3.59
Total Hepta-Furans	0.8734	12.062		0.0244
PFK1				3.59
PFK2				0.0756
PFK3				2.24
PFK4				0.112
PFK5				11.9
DPE1				0.297
DPE2				23.0
DPE3				
DPE4				
DPE5				
DPE6				



13C-2,3,7,8-TCDD	7.79e5	0.79	NO	1.1583	12.062	28.47	1.026	132	79.7	0.257
13C-1,2,3,7,8-PeCDD	5.53e5	0.88	NO	0.8490	12.062	31.43	1.218	128	77.0	0.352
13C-1,2,3,4,7,8-HxCDD	3.50e5	1.31	NO	0.7790	12.062	34.83	1.014	102	81.3	0.553
13C-1,2,3,6,7,8-HxCDD	5.62e5	1.39	NO	1.0167	12.062	34.93	1.017	125	75.4	0.424
13C-1,2,3,4,6,7,8-HpCDD	3.34e5	1.06	NO	0.8082	12.062	36.76	1.126	110	66.2	0.633
13C-OCDD	5.26e5	0.90	NO	0.8521	12.062	41.76	1.216	182	55.0	0.626
13C-2,3,7,8-TCDF	1.03e6	0.77	NO	1.0590	12.062	25.57	0.991	122	73.9	0.253
13C-1,2,3,7,8-PeCDF	8.41e5	1.52	NO	0.8380	12.062	30.15	1.168	127	76.3	0.567
13C-2,3,4,7,8-PeCDF	8.53e5	1.70	NO	0.8166	12.062	31.15	1.207	132	79.4	0.582
13C-1,2,3,4,7,8-HxCDF	4.86e5	0.50	NO	1.0075	12.062	33.95	0.988	109	65.8	0.592
13C-1,2,3,6,7,8-HxCDF	6.29e5	0.51	NO	1.1670	12.062	34.07	0.982	122	73.6	0.511
13C-2,3,4,6,7,8-HxCDF	5.38e5	0.49	NO	1.0219	12.062	34.85	1.009	119	71.8	0.584
13C-1,2,3,7,8,9-HxCDF	4.30e5	0.48	NO	0.8595	12.062	35.57	1.036	113	68.3	0.694
13C-1,2,3,4,6,7,8-HpCDF	3.81e5	0.42	NO	0.7745	12.062	37.35	1.067	111	67.2	0.653
13C-1,2,3,4,7,8,9-HpCDF	2.49e5	0.39	NO	0.5210	12.062	39.30	1.144	106	65.3	0.971
13C-OCDF	6.04e5	0.67	NO	0.7457	12.062	41.94	1.221	163	55.3	0.483
37Cl-2,3,7,8-TCDD	3.74e5			1.0368	12.062	26.46	1.026	70.7	107	0.109
13C-1,2,3,4-TCDD	8.45e6	0.79	NO	1.0060	12.062	25.81	1.000	106	100	0.297
13C-1,2,3,4-TCDF	1.32e6	0.79	NO	1.0060	12.062	24.13	1.000	106	100	0.267
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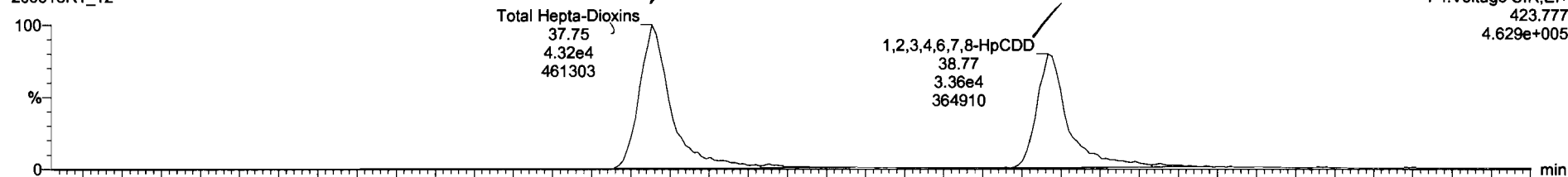
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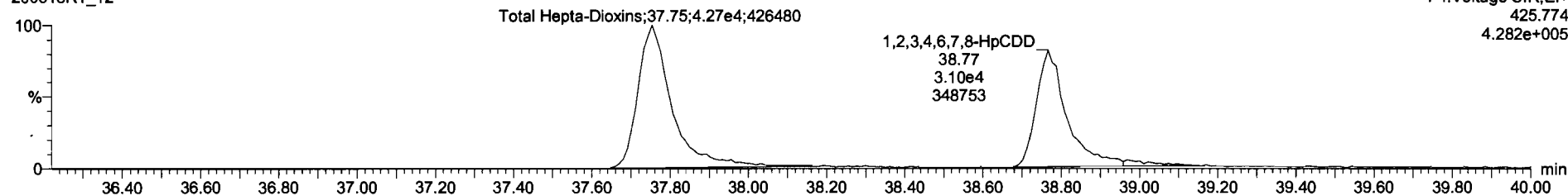
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**1,2,3,4,6,7,8-HpCDD**

200618R1\_12

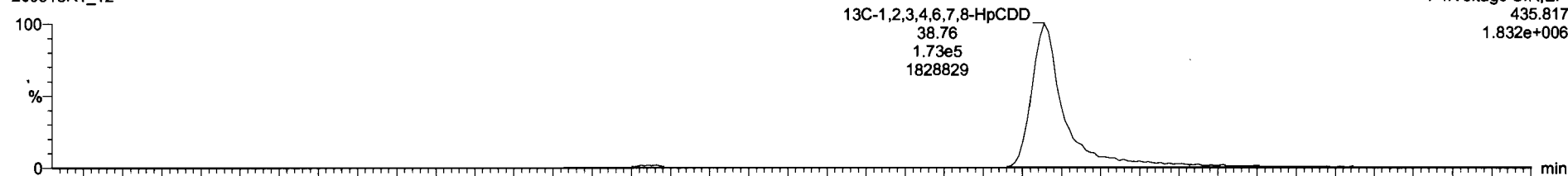


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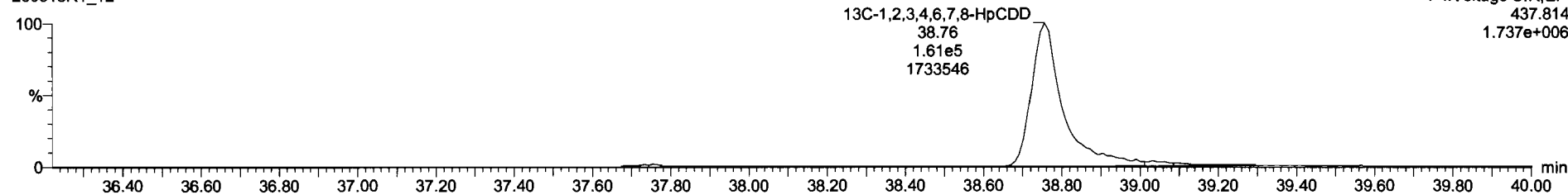


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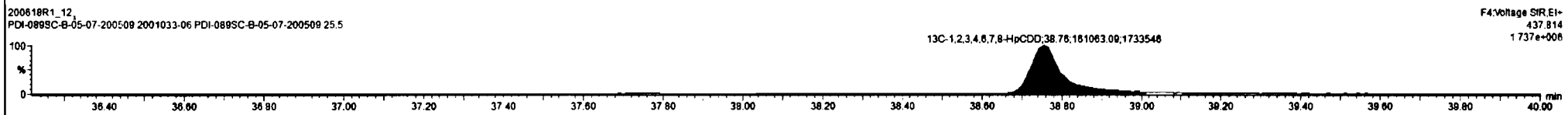
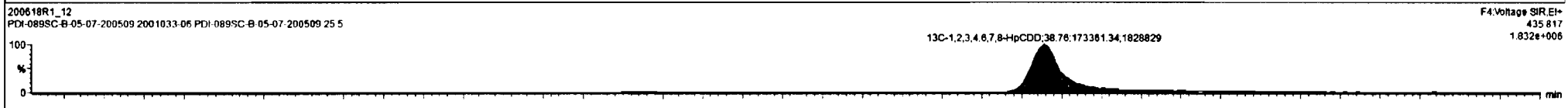
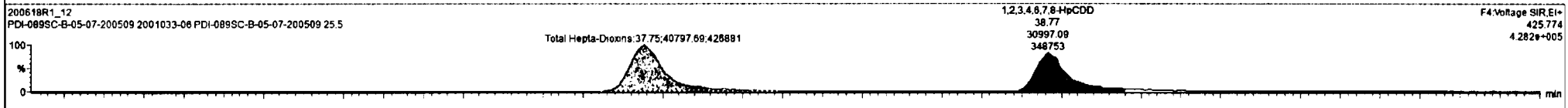
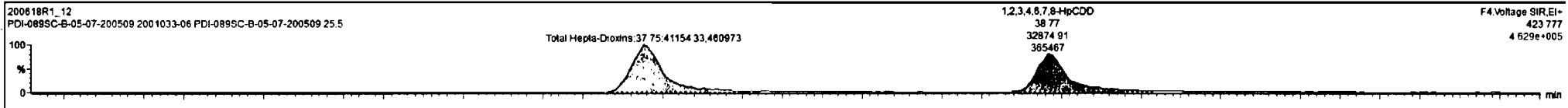
200618R1\_12



200618R1\_12



CONC	TIME	AREA	PERC	CONC	TIME	AREA	PERC	CONC	TIME	AREA	PERC
13C-1,2,3,4,6,8-HxCDF	7.32e5	0.52	NO	1.0000	12.062	34.35	1.000	100	100	0.597	
Total Tetra-Dioxins				0.8883	12.062					0.0343	
Total Penta-Dioxins				0.9081	12.062			0.503		0.111	0.949
Total Hexa-Dioxins				0.9823	12.062			7.50		0.189	7.50
Total Tetra-Furans				0.7510	12.062			1.43		0.0678	1.99
1st Func. Penta-Furans				0.8825	12.062			3.59		0.0244	3.59
Total Penta-Furans				0.8825	12.062			2.24		0.0756	2.24
Total Hexa-Furans				0.9341	12.062			11.2		0.112	11.9
Total Hepta-Furans				0.8734	12.062			23.0		0.297	23.0
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
DPE6											



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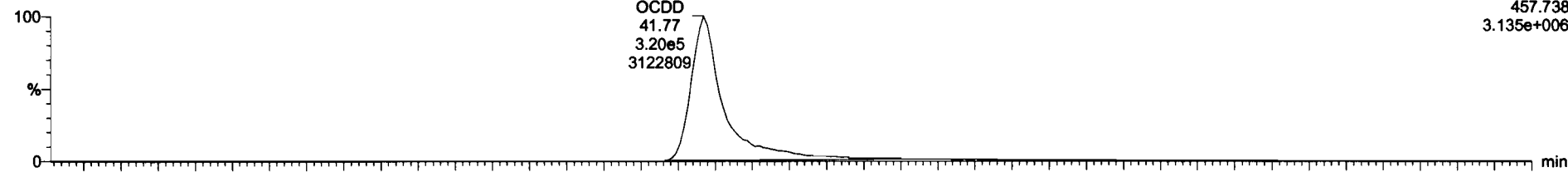
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

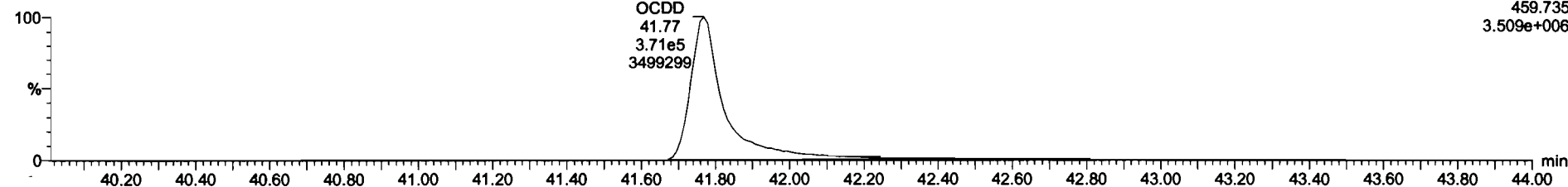
Name: 200618R1\_12, Date: 18-Jun-2020, Time: 21:35:26, ID: 2001033-06 PDI-089SC-B-05-07-200509 25.5, Description: PDI-089SC-B-05-07-200509

**OCDD**

200618R1\_12

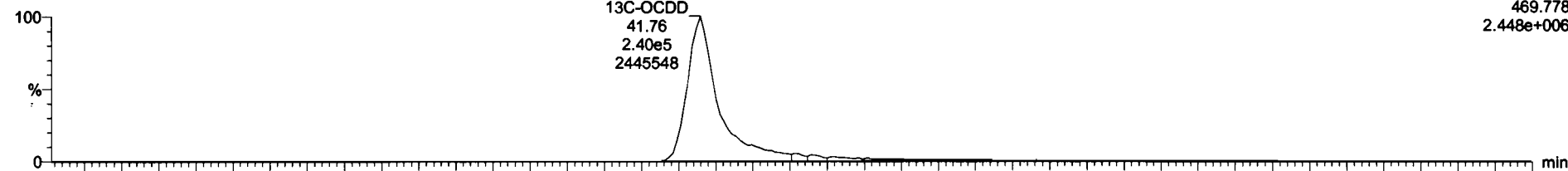


200618R1\_12

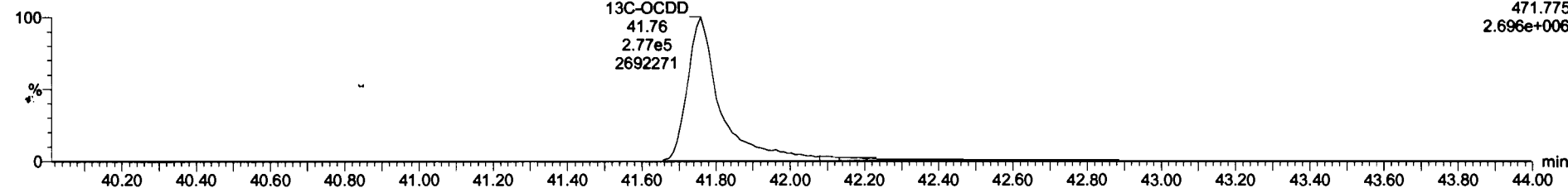


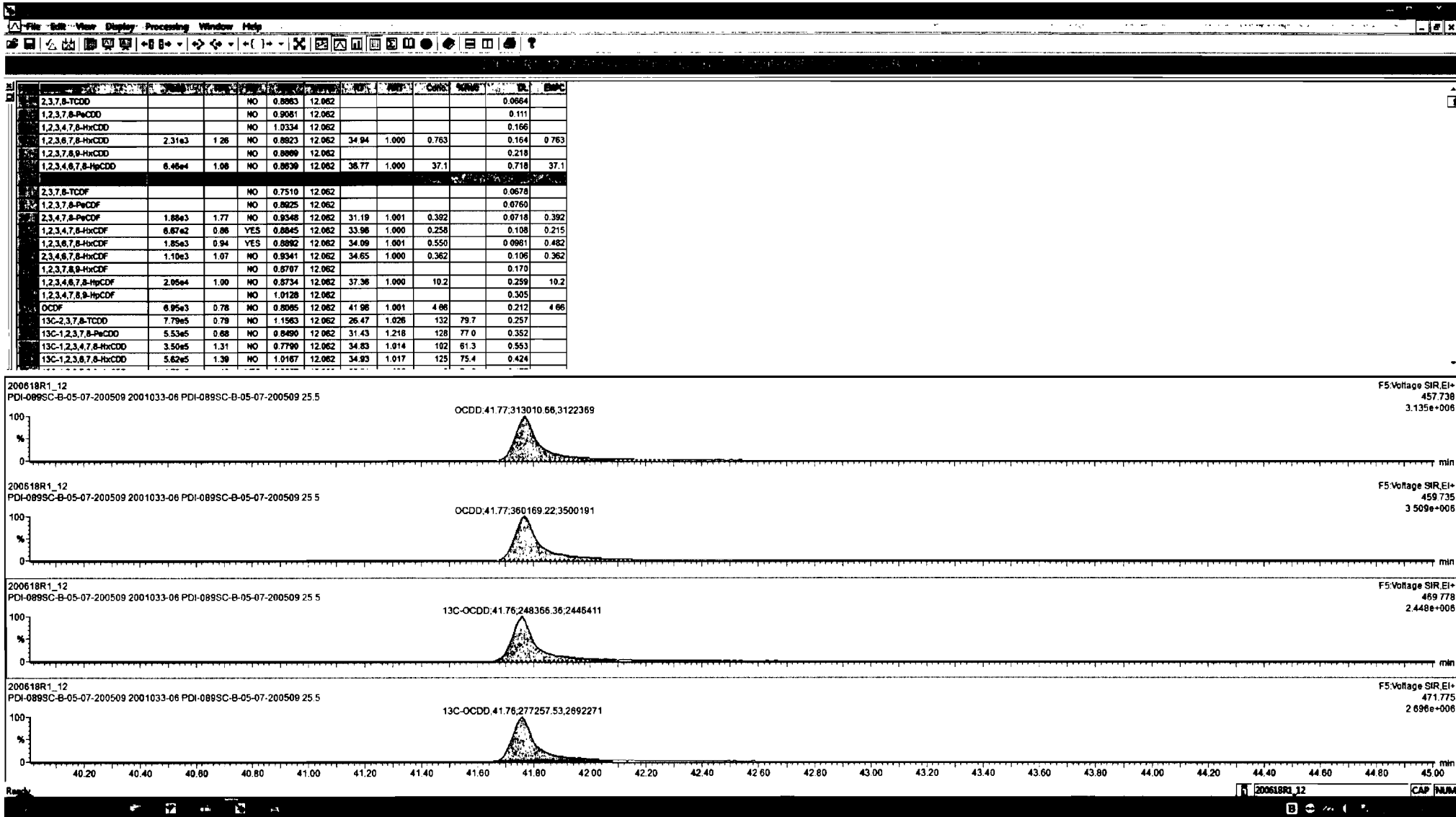
**13C-OCDD**

200618R1\_12



200618R1\_12



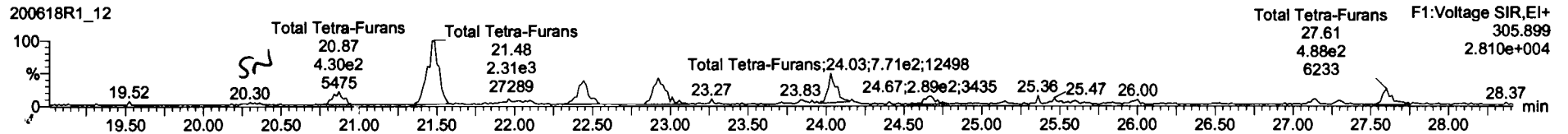
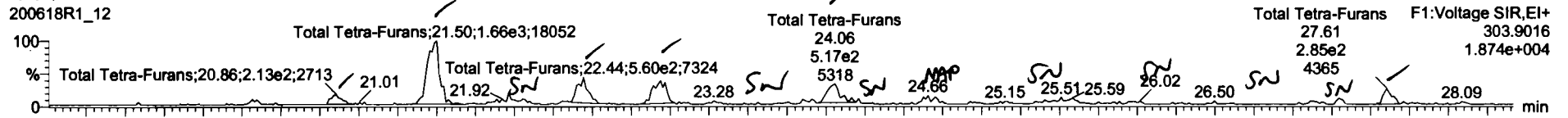


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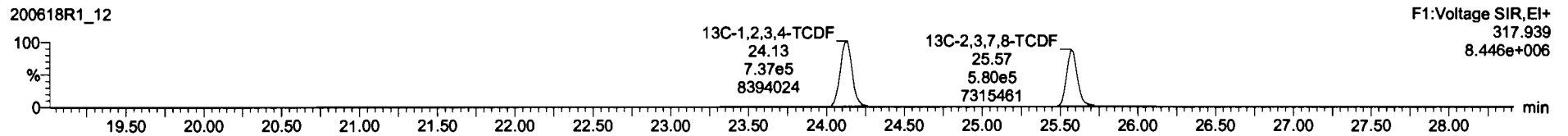
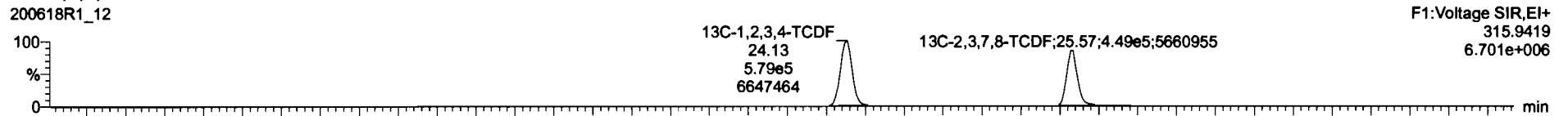
Last Altered: Friday, June 19, 2020 07:32:51 Pacific Daylight Time  
Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1\_12, Date: 18-Jun-2020, Time: 21:35:26, ID: 2001033-06 PDI-089SC-B-05-07-200509 25.5, Description: PDI-089SC-B-05-07-200509

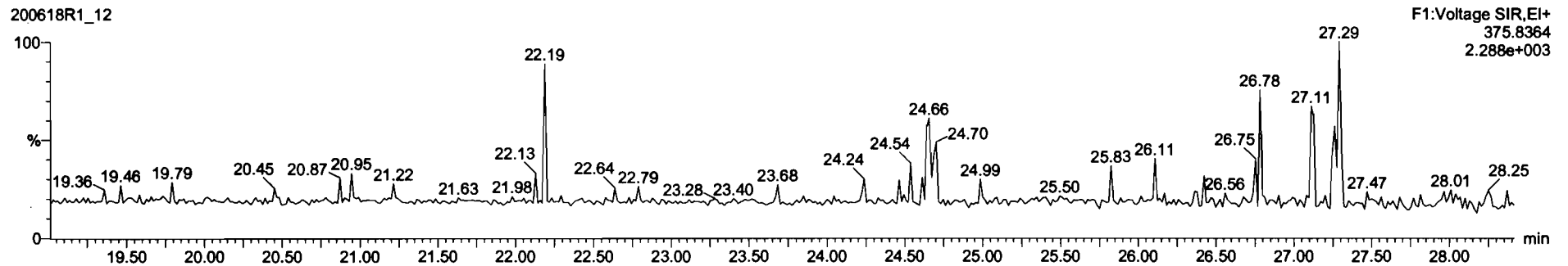
**2,3,7,8-TCDF**



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



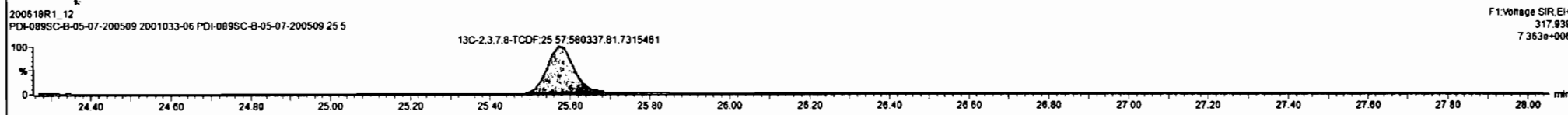
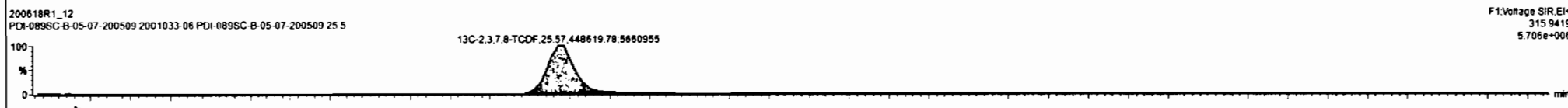
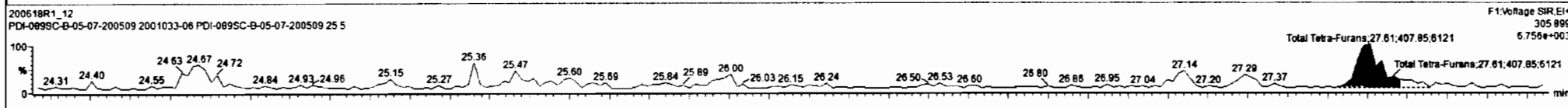
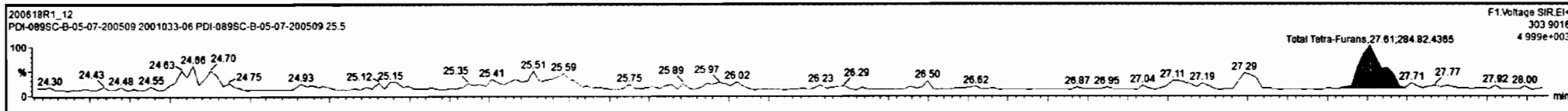
**DPE1**







Comp	Area	Height	W	Area%	Height%	Conc	%Rec	DL	BMPC	
13C-1,2,3,4,6,8-HxCDF	7.32e5	0.52	NO	1.0000	12.062	34.35	1.000	188	100	0.587
Total Tetra-Dioxins				0.8883	12.062					0.8343
Total Penta-Dioxins				0.9081	12.062			0.448		0.111 0.894
Total Hexa-Dioxins				0.8823	12.062			7.40		0.189 7.40
Total Hepta-Dioxins				0.8839	12.062			83.7		0.718 83.7
1st Func Penta-Furans				0.8825	12.062			3.59		0.0244 3.59
Total Penta-Furans				0.8825	12.062			2.24		0.0756 2.24
Total Hexa-Furans				0.9341	12.062			11.2		0.112 11.9
Total Hepta-Furans				0.8734	12.062			23.0		0.297 23.0
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



Dataset: Untitled

Last Altered: Friday, June 19, 2020 07:32:51 Pacific Daylight Time  
Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

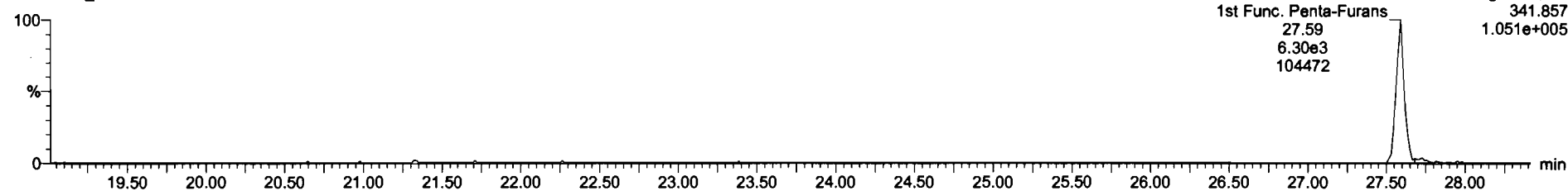
Name: 200618R1\_12, Date: 18-Jun-2020, Time: 21:35:26, ID: 2001033-06 PDI-089SC-B-05-07-200509 25.5, Description: PDI-089SC-B-05-07-200509

1st Func. Penta-Furans

200618R1\_12

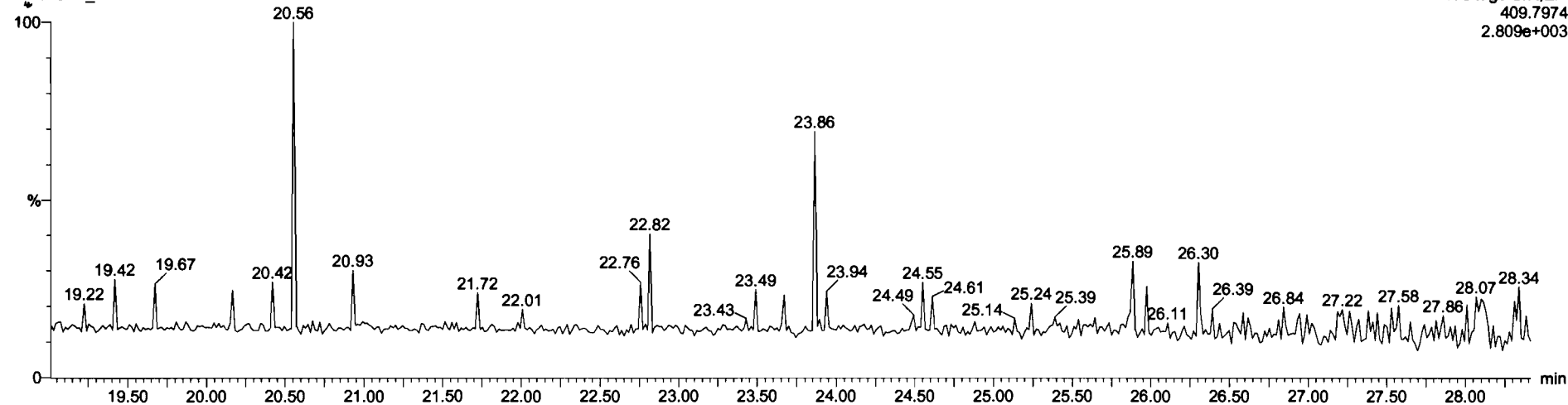


200618R1\_12



DPE6

200618R1\_12

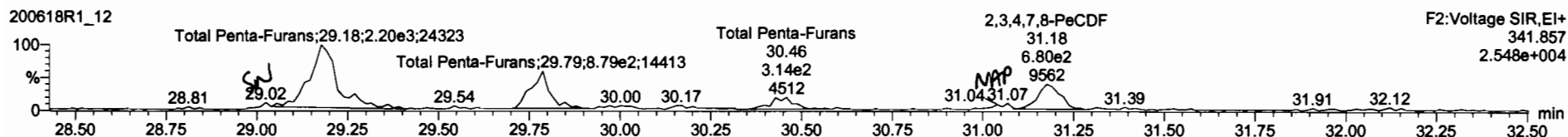
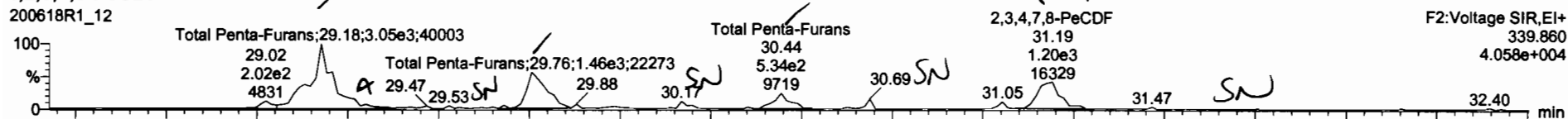


Dataset: Untitled

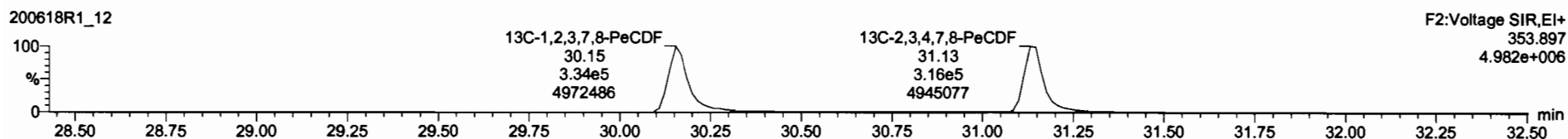
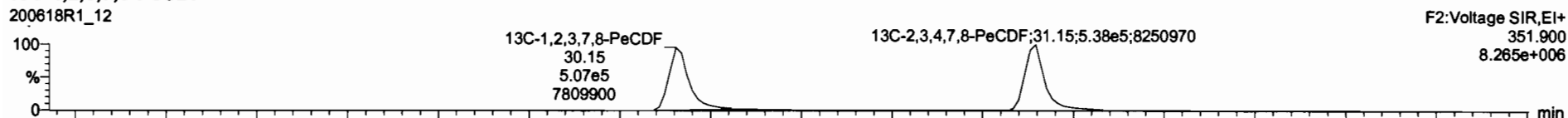
Last Altered: Friday, June 19, 2020 07:32:51 Pacific Daylight Time  
Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1\_12, Date: 18-Jun-2020, Time: 21:35:26, ID: 2001033-06 PDI-089SC-B-05-07-200509 25.5, Description: PDI-089SC-B-05-07-200509

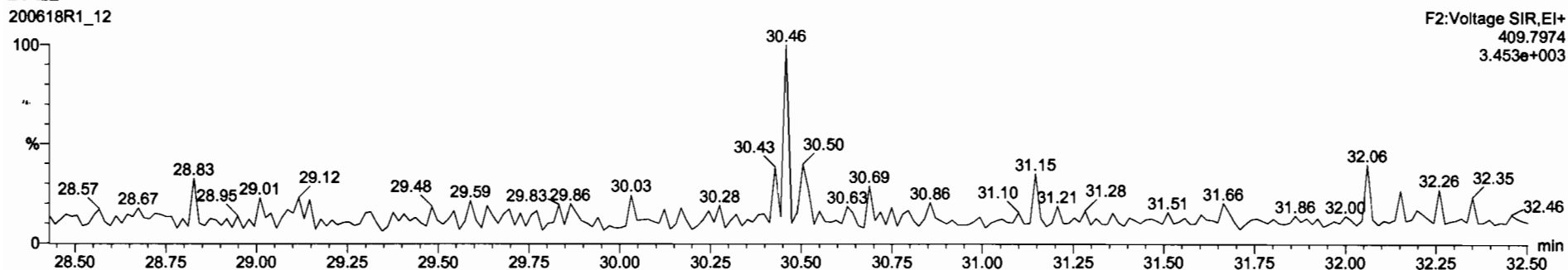
**1,2,3,7,8-PeCDF**

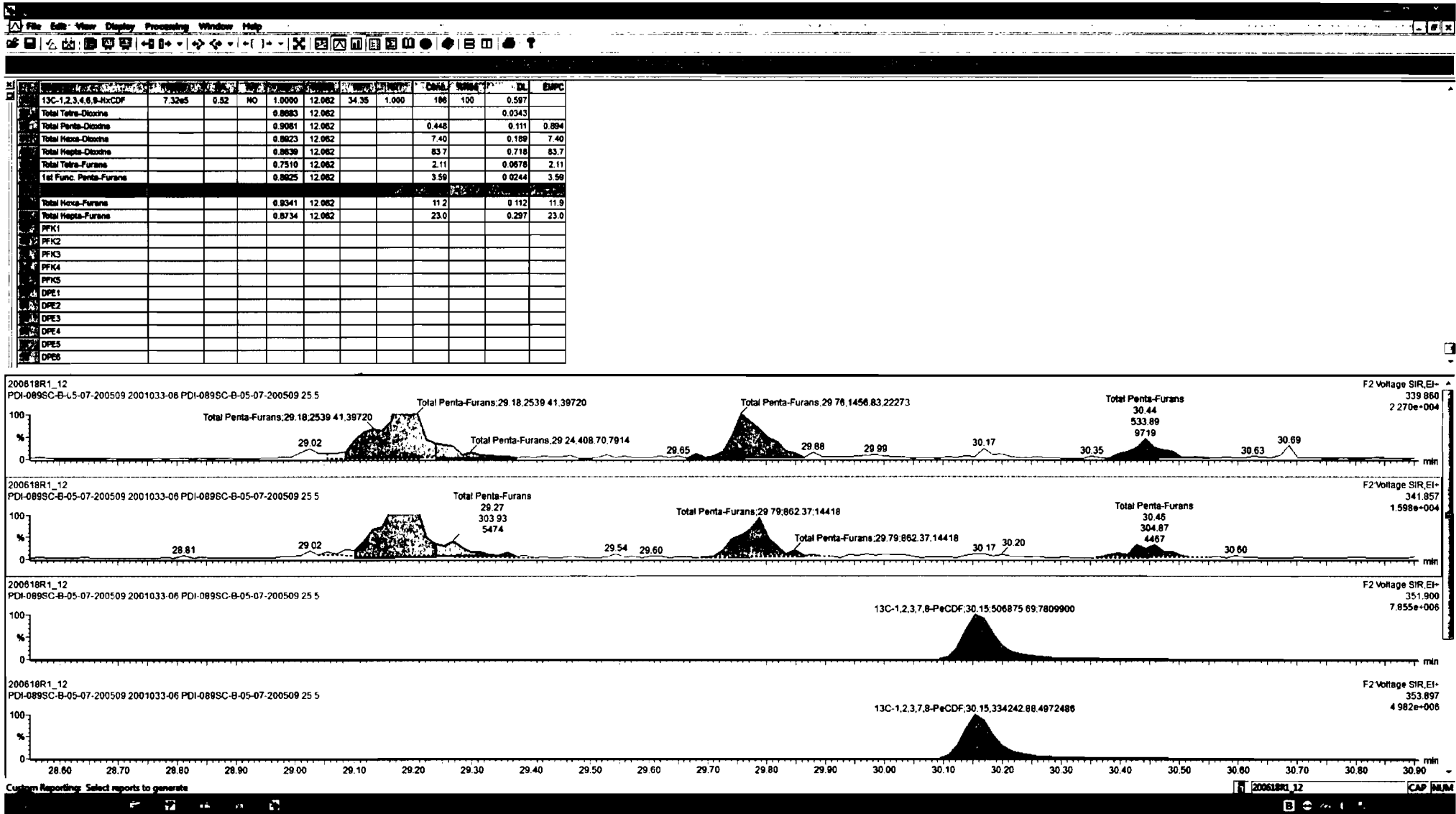


**13C-1,2,3,7,8-PeCDF**

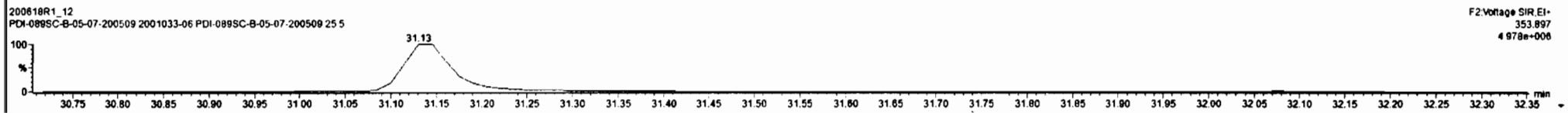
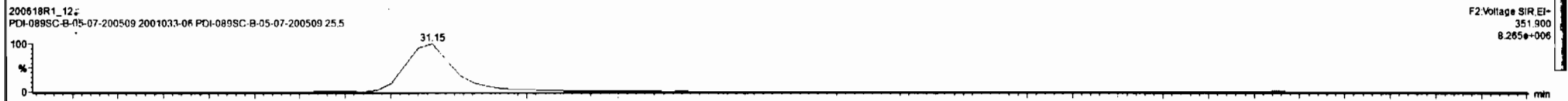
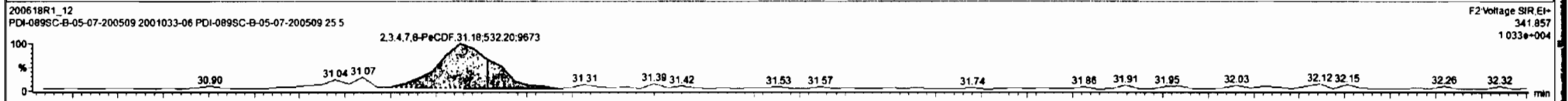
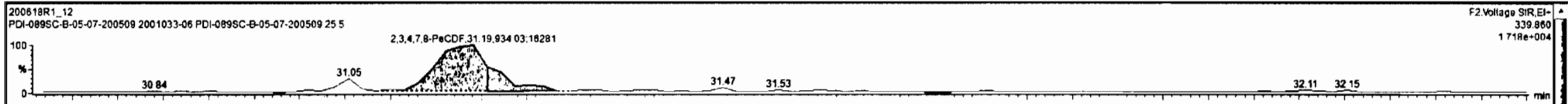


**DPE2**





Comp	Concn	Unit	Concn	Unit	Concn	Unit	Concn	Unit	Concn	Unit	Concn	Unit	Concn	Unit	Concn	Unit	Concn	Unit
13C-1,2,3,4,6,8-HxCDF	7.32e5	0.52	NO	1.0000	12.062	34.35	1.000	100	100	0.597								
Total Tetra-Dioxins				0.0003	12.062					0.0343								
Total Penta-Dioxins				0.9081	12.062				0.448	0.111	0.894							
Total Hexa-Dioxins				0.0023	12.062				7.40	0.189	7.40							
Total Hepta-Dioxins				0.0039	12.062				83.7	0.718	83.7							
Total Tetra-Furans				0.7510	12.062				2.11	0.0678	2.11							
1st Func. Penta-Furans				0.0025	12.062				3.50	0.0244	3.50							
Total Hexa-Furans				0.9341	12.062				11.2	0.112	11.9							
Total Hepta-Furans				0.8734	12.062				23.0	0.297	23.0							
PFK1																		
PFK2																		
PFK3																		
PFK4																		
PFK5																		
DPE1																		
DPE2																		
DPE3																		
DPE4																		
DPE5																		
DPE6																		

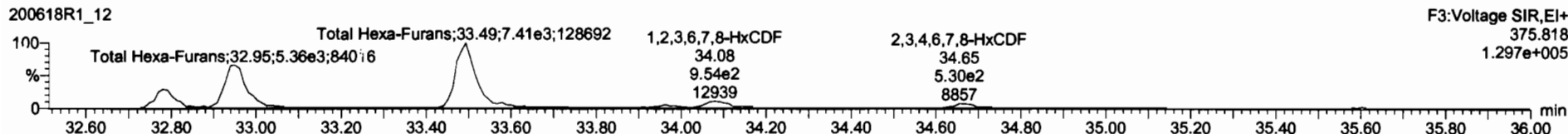
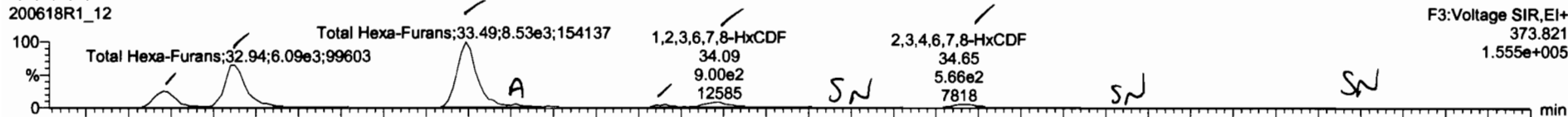


Dataset: Untitled

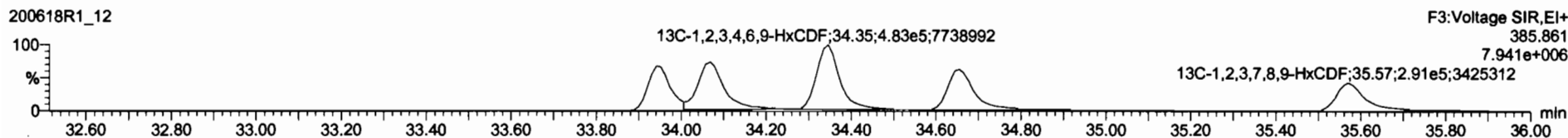
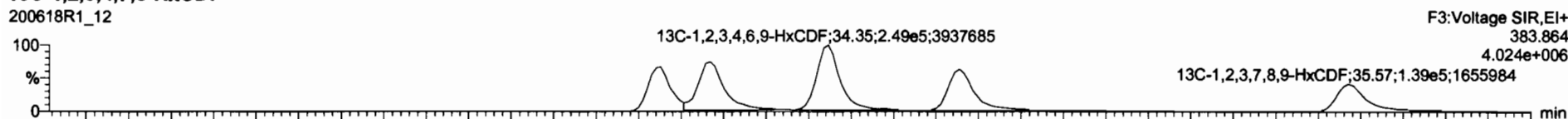
Last Altered: Friday, June 19, 2020 07:32:51 Pacific Daylight Time  
Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1\_12, Date: 18-Jun-2020, Time: 21:35:26, ID: 2001033-06 PDI-089SC-B-05-07-200509 25.5, Description: PDI-089SC-B-05-07-200509

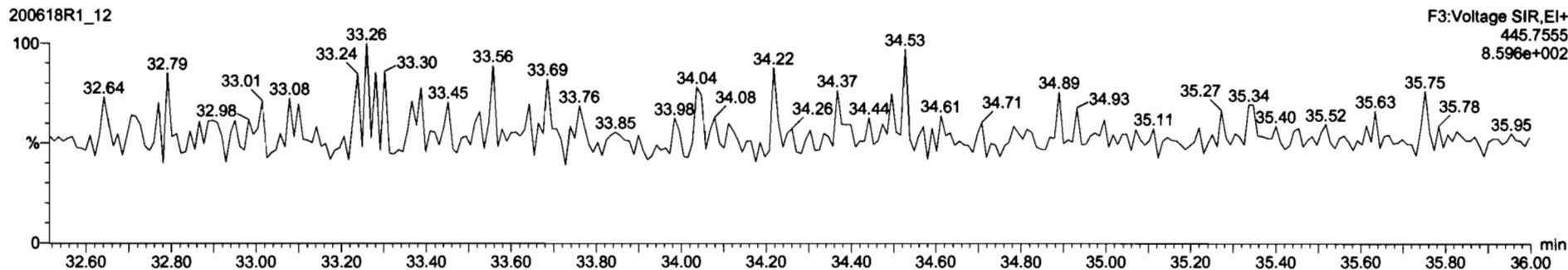
**1,2,3,4,7,8-HxCDF**

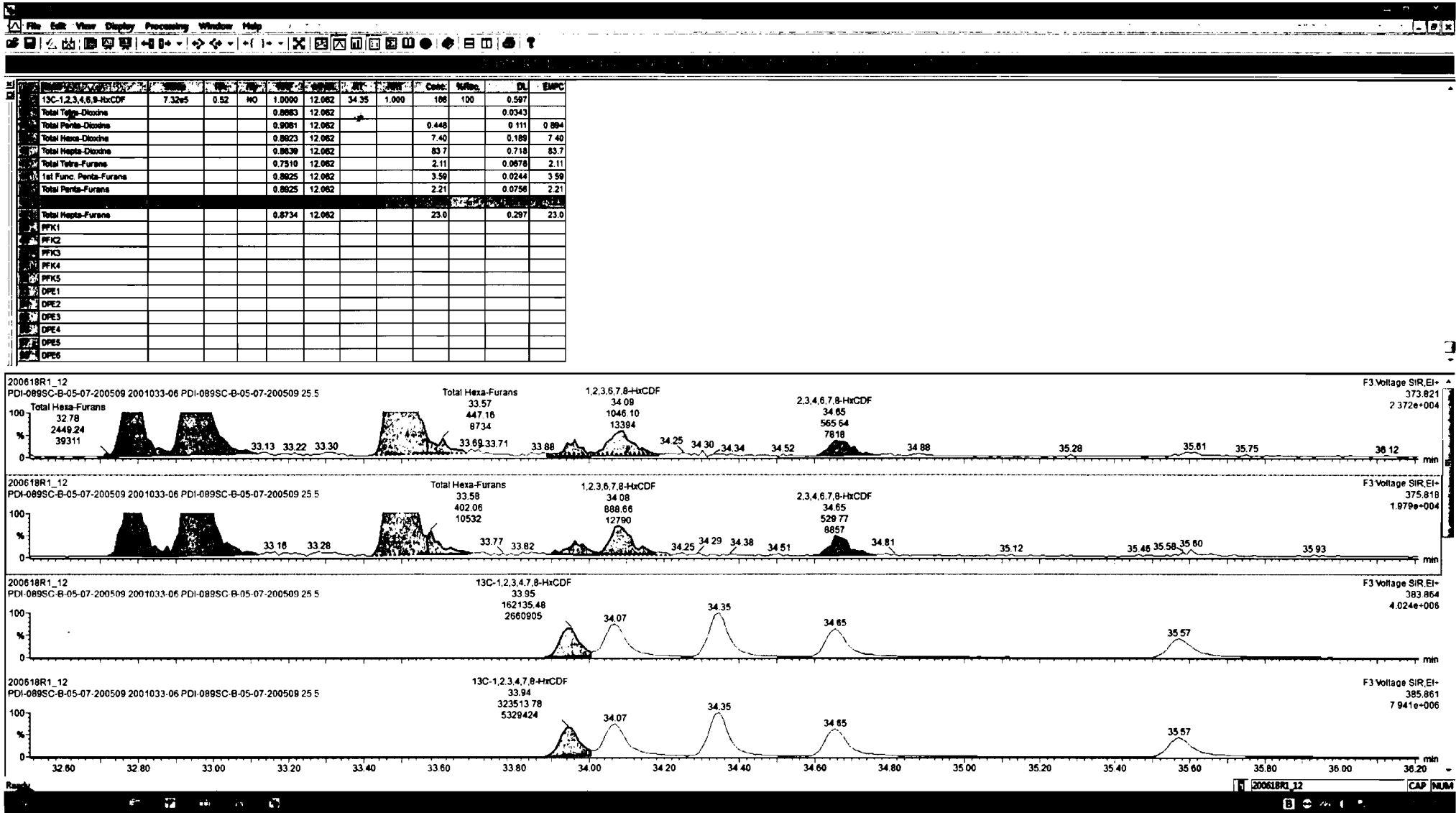


**13C-1,2,3,4,7,8-HxCDF**



**DPE3**





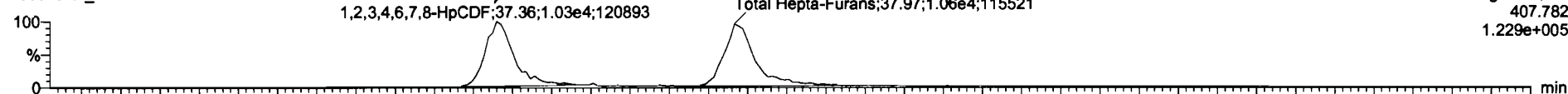
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Last Altered: Friday, June 19, 2020 07:32:51 Pacific Daylight Time  
Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

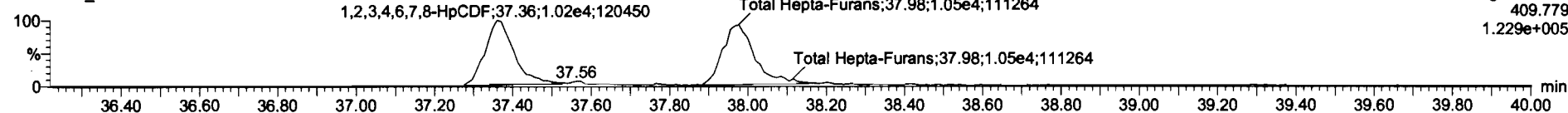
Name: 200618R1\_12, Date: 18-Jun-2020, Time: 21:35:26, ID: 2001033-06 PDI-089SC-B-05-07-200509 25.5, Description: PDI-089SC-B-05-07-200509

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

200618R1\_12



200618R1\_12

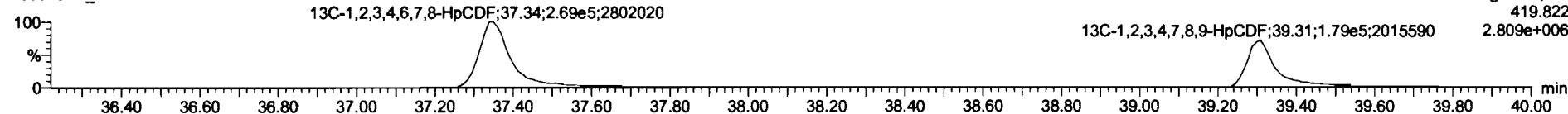


**13C-1,2,3,4,6,7,8-HpCDF**

200618R1\_12

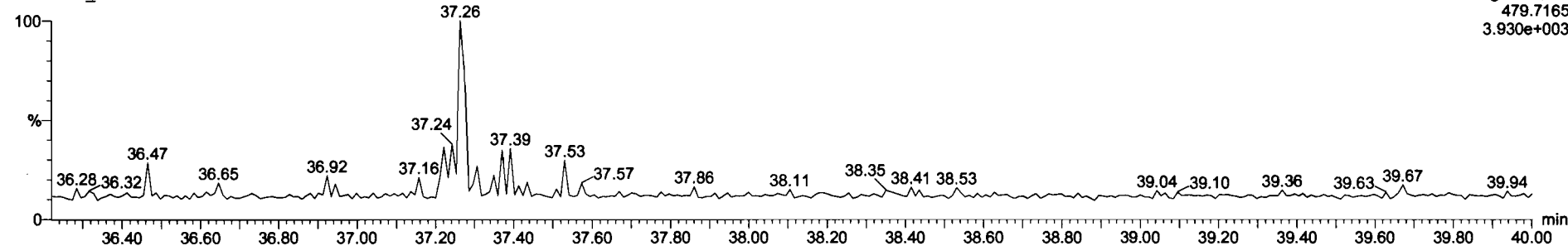


200618R1\_12



**DPE4**

200618R1\_12

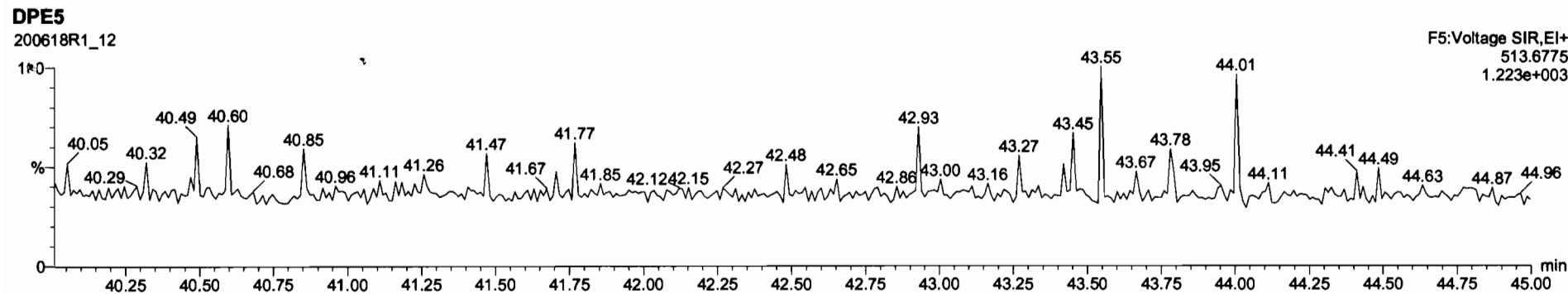
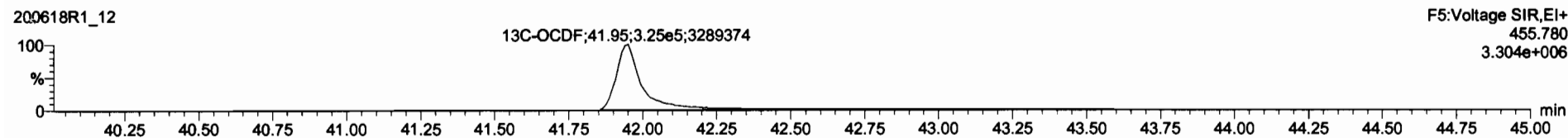
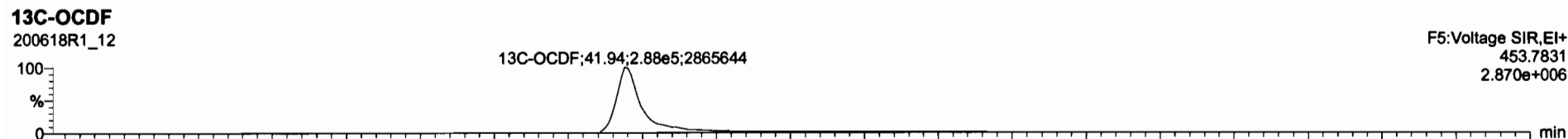
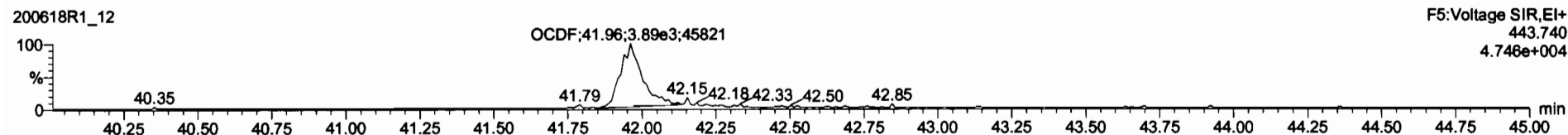
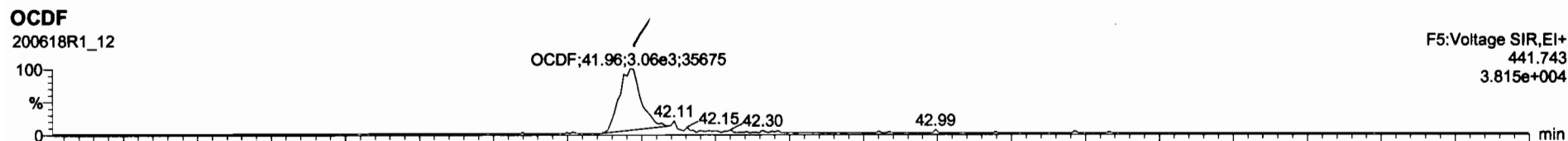




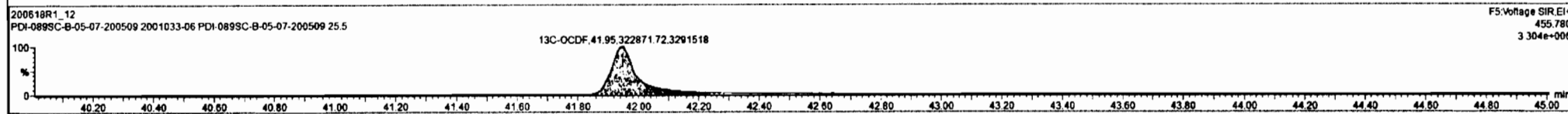
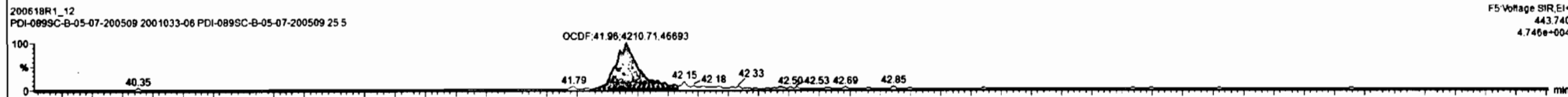
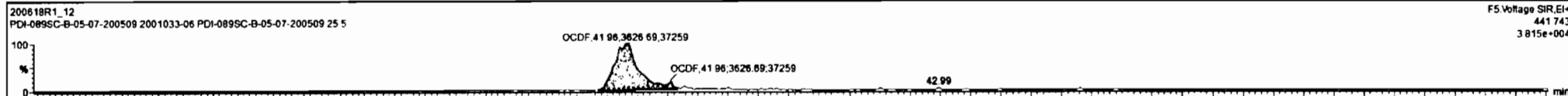
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1\_12, Date: 18-Jun-2020, Time: 21:35:26, ID: 2001033-06 PDI-089SC-B-05-07-200509 25.5, Description: PDI-089SC-B-05-07-200509



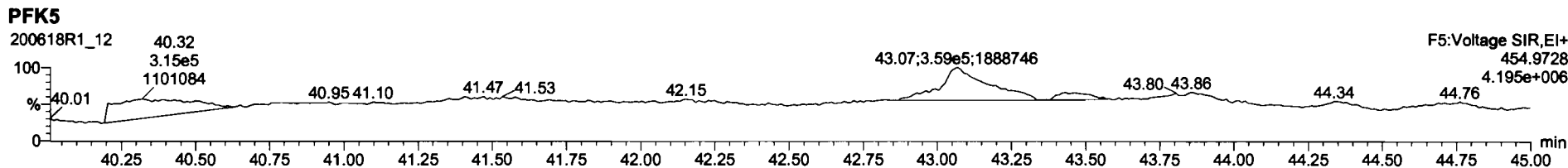
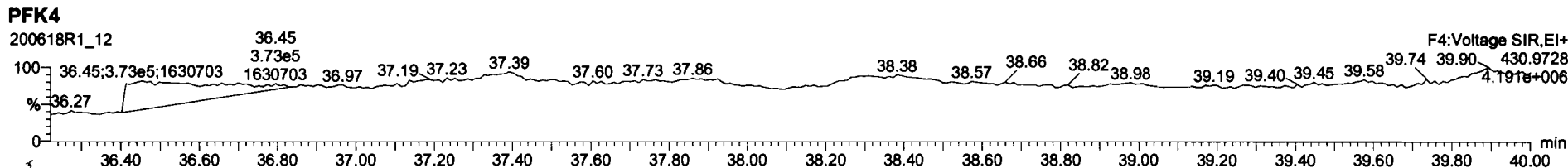
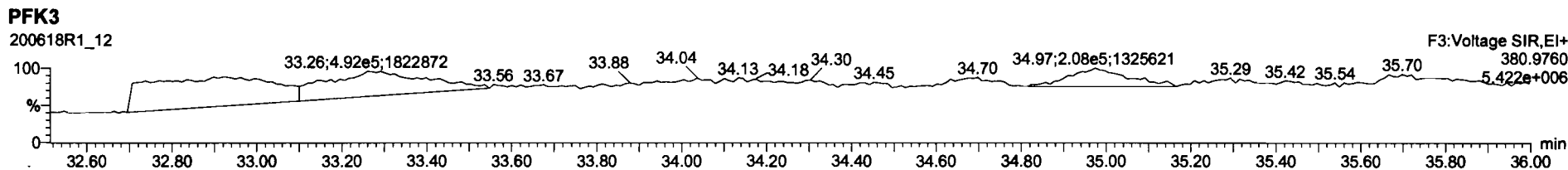
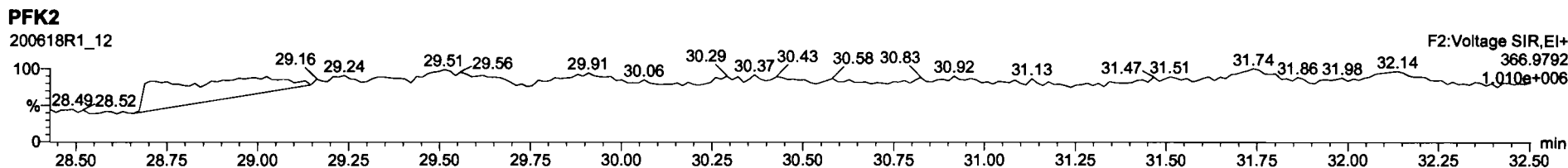
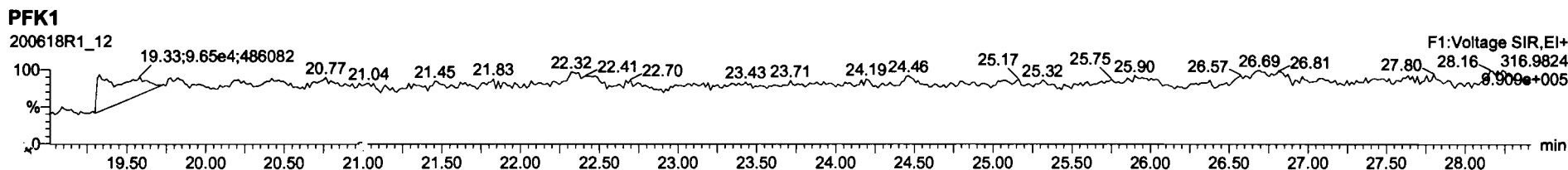
Compound	Conc	Area	Height	Width	Area%	Height%	Width%	DL	EMPC
2,3,7,8-TCDD		NO	0.8883	12.062				0.0884	
1,2,3,7,8-PeCDD		NO	0.9081	12.062				0.111	
1,2,3,4,7,8-HxCDD		NO	1.0334	12.062				0.166	
1,2,3,6,7,8-HxCDD	2.31e3	1.26	NO	0.8823	12.062	34.94	1.000	0.763	0.164 0.763
1,2,3,7,8-HxCDD		NO	0.8889	12.062				0.218	
1,2,3,4,6,7,8-HpCDD	6.46e4	1.08	NO	0.8639	12.062	38.77	1.000	37.1	0.718 37.1
OCDD	6.73e5	0.87	NO	0.9138	12.062	41.77	1.000	485	1.38 485
2,3,7,8-TCDF		NO	0.7510	12.062				0.0678	
1,2,3,7,8-PeCDF		NO	0.8825	12.062				0.0760	
2,3,4,7,8-PeCDF	1.88e3	1.77	NO	0.9348	12.062	31.19	1.001	0.382	0.0718 0.392
1,2,3,4,7,8-HxCDF	6.67e2	0.86	YES	0.8845	12.062	33.98	1.000	0.258	0.108 0.215
1,2,3,6,7,8-HxCDF	1.85e3	0.94	YES	0.8882	12.062	34.08	1.001	0.550	0.0981 0.482
2,3,4,6,7,8-HxCDF	1.10e3	1.07	NO	0.9341	12.062	34.65	1.000	0.362	0.106 0.362
1,2,3,7,8-HxCDF		NO	0.8707	12.062				0.170	
1,2,3,4,6,7,8-HpCDF	2.05e4	1.00	NO	0.8734	12.062	37.38	1.000	10.2	0.259 10.2
1,2,3,4,7,8-HpCDF		NO	1.0128	12.062				0.305	
13C-2,3,7,8-TCDD	7.79e5	0.79	NO	1.1563	12.062	28.47	1.028	132	79.7 0.257
13C-1,2,3,7,8-PeCDD	5.53e5	0.88	NO	0.8490	12.062	31.43	1.218	128	77.0 0.352
13C-1,2,3,4,7,8-HxCDD	3.50e5	1.31	NO	0.7790	12.062	34.83	1.814	102	61.3 0.553
13C-1,2,3,6,7,8-HxCDD	5.62e5	1.39	NO	1.0167	12.062	34.83	1.817	125	75.4 0.424



Dataset: Untitled

Last Altered: Friday, June 19, 2020 07:32:51 Pacific Daylight Time  
Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1\_12, Date: 18-Jun-2020, Time: 21:35:26, ID: 2001033-06 PDI-089SC-B-05-07-200509 25.5, Description: PDI-089SC-B-05-07-200509



## **CONFIRMATION**

Dataset: U:\VG7.PRO\Results\200708D1\200708D1\_7.qld

Last Altered: Wednesday, July 08, 2020 14:18:04 Pacific Daylight Time  
Printed: Wednesday, July 08, 2020 14:18:23 Pacific Daylight Time

*DB 7/8/20 C1 07/10/2020*

Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52

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

Name: 200708D1\_7, Date: 08-Jul-2020, Time: 13:17:06, ID: 2001033-01RE2 PDI-087SC-B-00-02-200509 2.54, Description: PDI-087SC-B-00-02-200509

Peak	Resp	RA	n/y	RRF	w/vol	Prod	RT	Fit	RRF	RRF	Conc		
1 2,3,7,8-TCDF	3.97e2	0.71	NO	0.982	1.022	✓	16.960	16.98	1.000	1.001	6.5977	3.93	6.60
2 13C-2,3,7,8-TCDF	1.20e5	0.76	NO	1.08	1.022		16.917	16.96	1.133	1.135	936.14	47.8	4.40
3 13C-1,2,3,4-TCDF	2.31e5	0.76	NO	1.00	1.022		15.060	14.95	1.000	1.000	1957.6	100	4.76

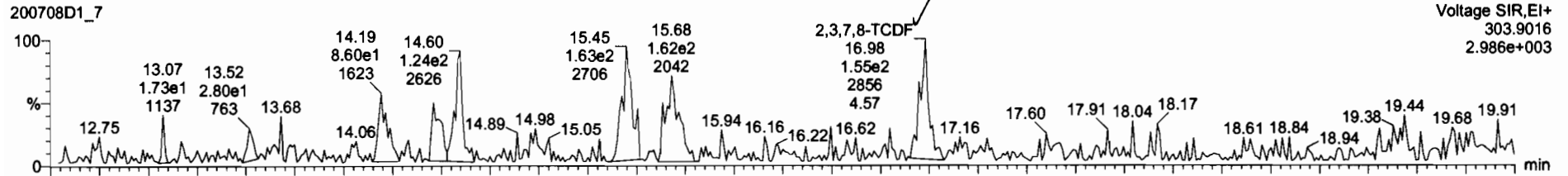
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Printed: Wednesday, July 08, 2020 14:17:29 Pacific Daylight Time

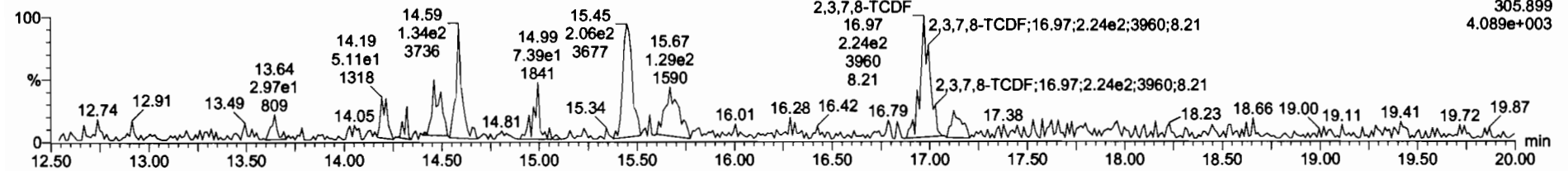
Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52  
Calibration: U:\VG7.PRO\CurveDB\ldb-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200708D1\_7, Date: 08-Jul-2020, Time: 13:17:06, ID: 2001033-01RE2 PDI-087SC-B-00-02-200509 2.54, Description: PDI-087SC-B-00-02-200509

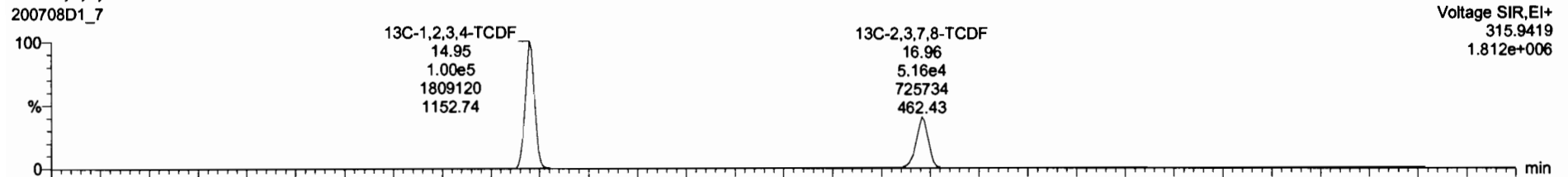
2,3,7,8-TCDF



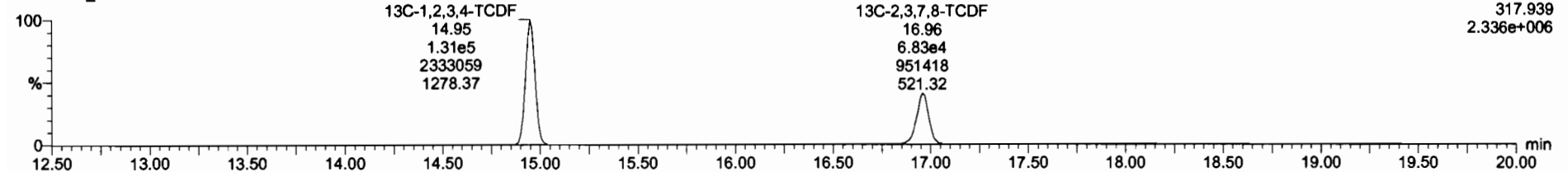
200708D1\_7

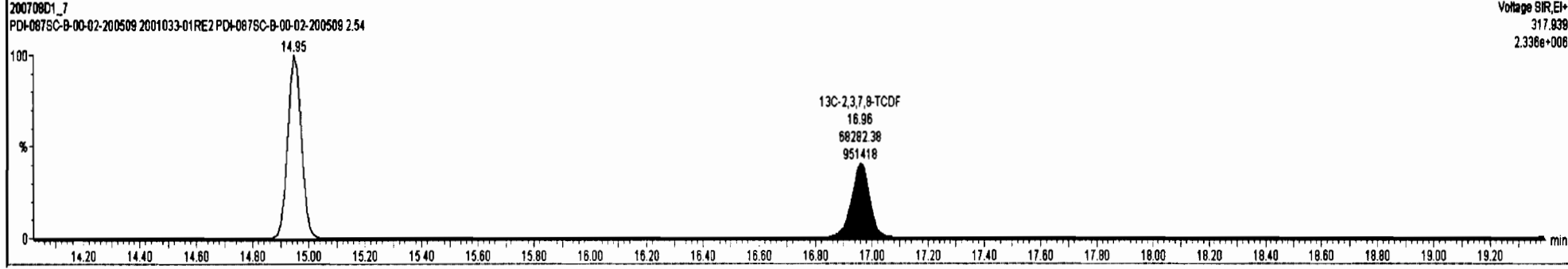
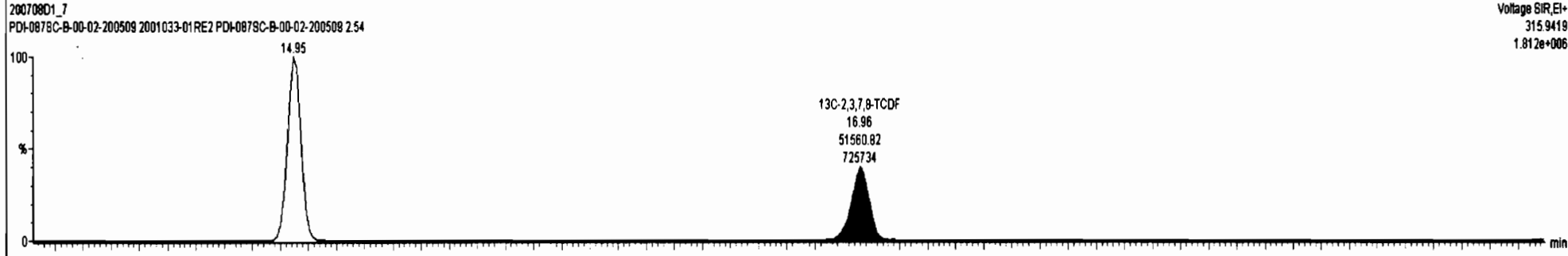
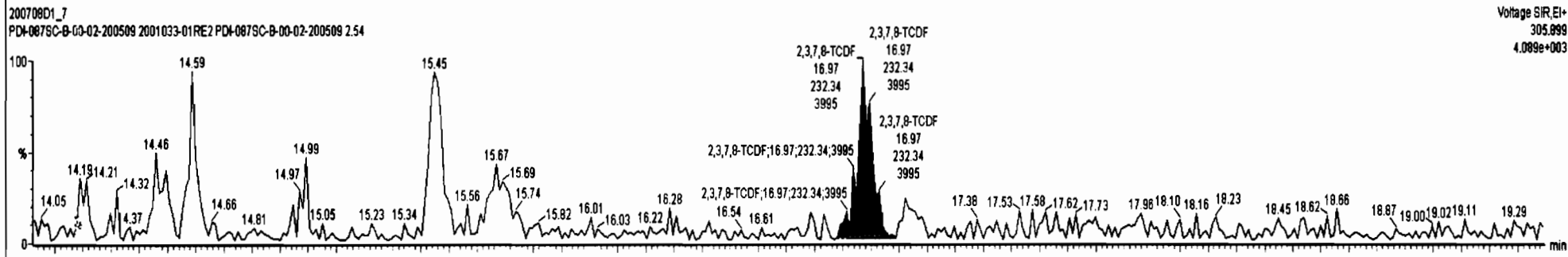
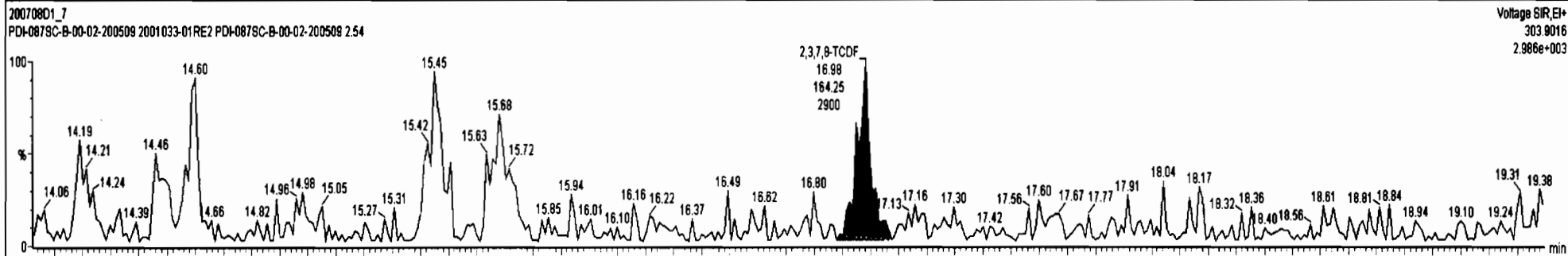


13C-2,3,7,8-TCDF



200708D1\_7



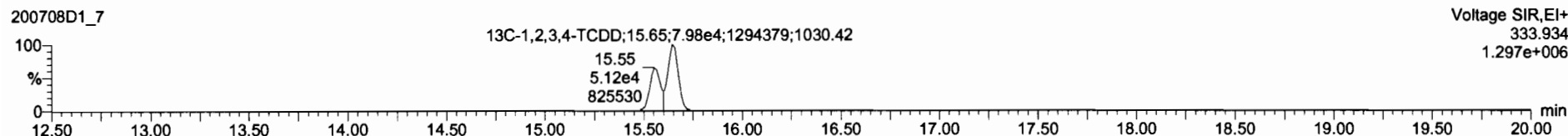
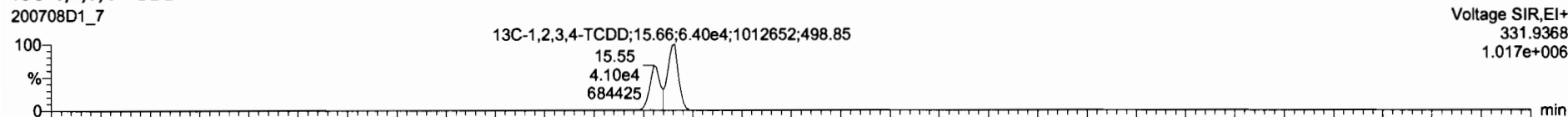


Dataset: U:\VG7.PRO\Results\200708D1\200708D1\_7.qld

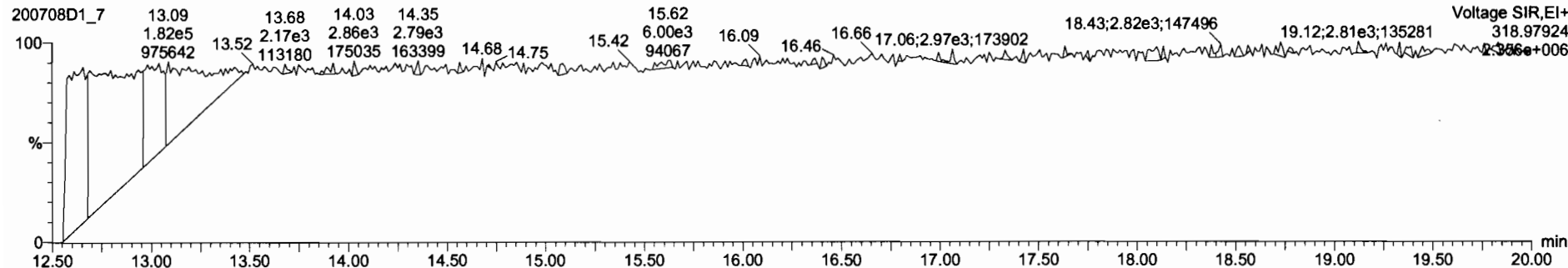
Last Altered: Wednesday, July 08, 2020 14:15:49 Pacific Daylight Time  
Printed: Wednesday, July 08, 2020 14:17:29 Pacific Daylight Time

Name: 200708D1\_7, Date: 08-Jul-2020, Time: 13:17:06, ID: 2001033-01RE2 PDI-087SC-B-00-02-200509 2.54, Description: PDI-087SC-B-00-02-200509

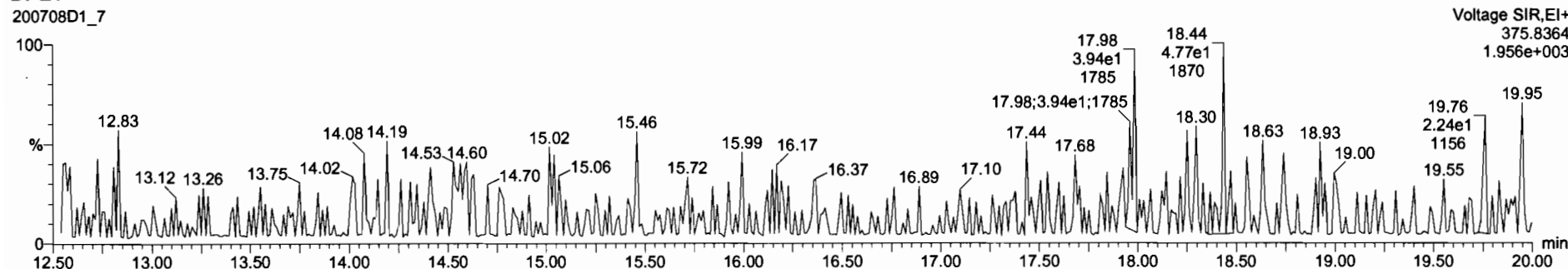
13C-1,2,3,4-TCDD



PFK1



DPE1





Dataset: U:\VG7.PRO\Results\200702D1\200702D1\_14.qld

Last Altered: Friday, July 03, 2020 13:39:00 Pacific Daylight Time  
Printed: Friday, July 03, 2020 13:39:17 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  
Callbration: U:\VG7.PRO\CurveDB\ldb-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200702D1\_14, Date: 02-Jul-2020, Time: 22:29:55, ID: 2001033-02RE1 PDI-087SC-B-02-05-200509 21.1, Description: PDI-087SC-B-02-05-200509

	Resp	RA	n/y	RRF	wt/vol	Conc	RT	Area	RF				
1	2,3,7,8-TCDF	7.58e2	0.85	NO	0.982	11.132	16.980	16.97	1.000	1.001	0.44399	0.408	0.444
2	13C-2,3,7,8-TCDF	3.12e5	0.77	NO	1.08	11.132	16.966	16.96	1.133	1.136	173.85	96.8	0.615
3	13C-1,2,3,4-TCDF	2.98e5	0.77	NO	1.00	11.132	14.920	14.94	1.000	1.000	179.66	100	0.666

6

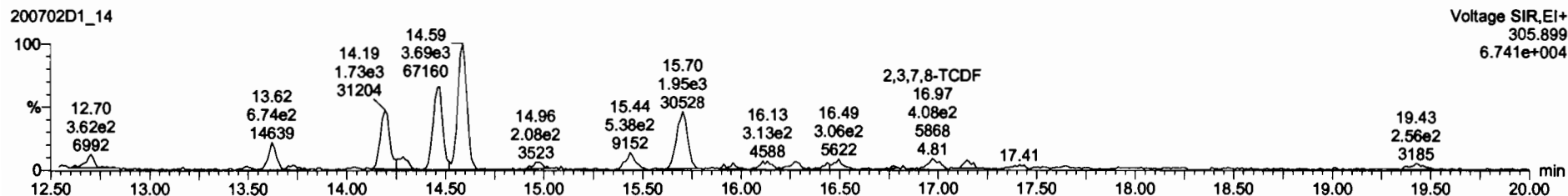
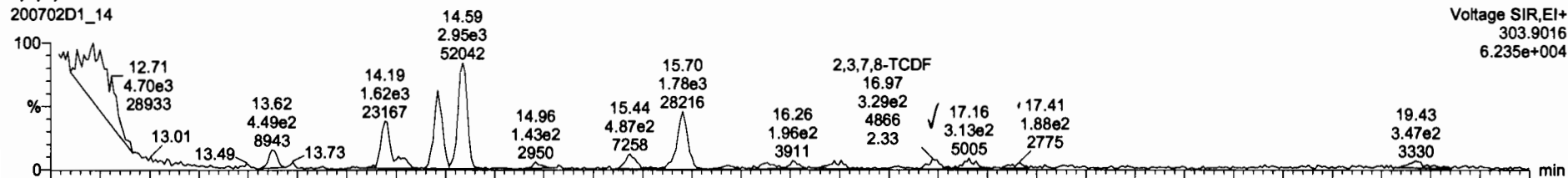
Dataset: U:\VG7.PRO\Results\200702D1\200702D1\_14.qld

Last Altered: Friday, July 03, 2020 09:54:38 Pacific Daylight Time  
Printed: Friday, July 03, 2020 09:55:39 Pacific Daylight Time

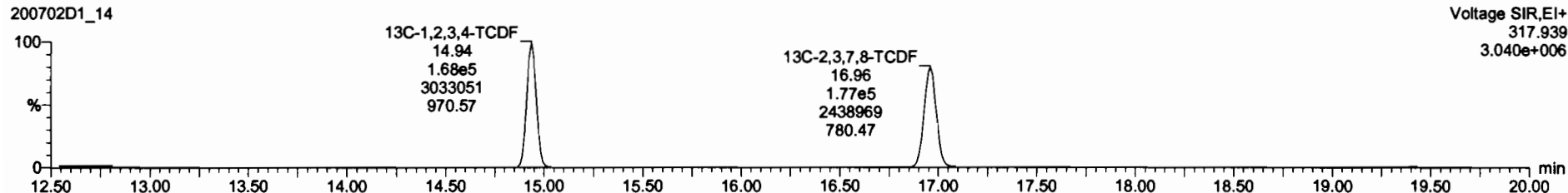
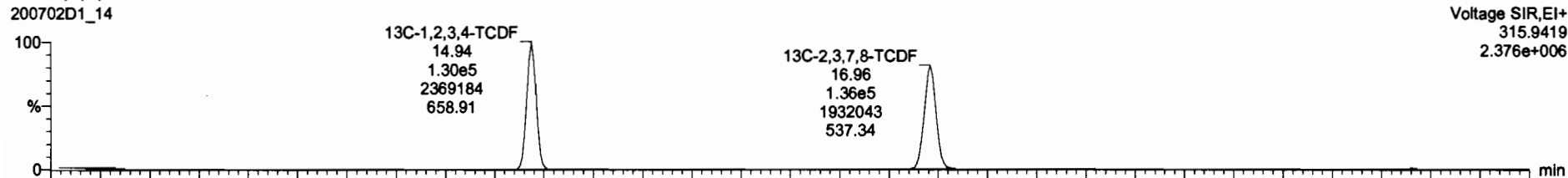
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 03 Jul 2020 09:08:31  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200702D1\_14, Date: 02-Jul-2020, Time: 22:29:55, ID: 2001033-02RE1 PDI-087SC-B-02-05-200509 21.1, Description: PDI-087SC-B-02-05-200509

2,3,7,8-TCDF



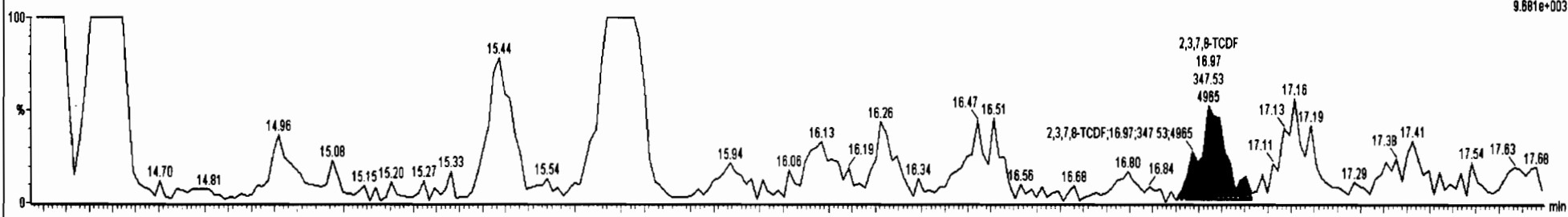
13C-2,3,7,8-TCDF





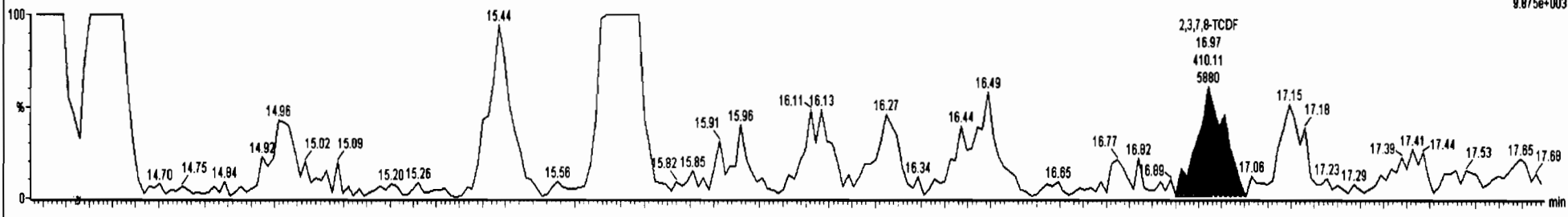
200702D1\_14  
PDI-087SC-B-02-05-200509 2001033-02RE1 PDI-087SC-B-02-05-200509 21.1

Voltage SIR,EI+  
303.8016  
9.881e+003



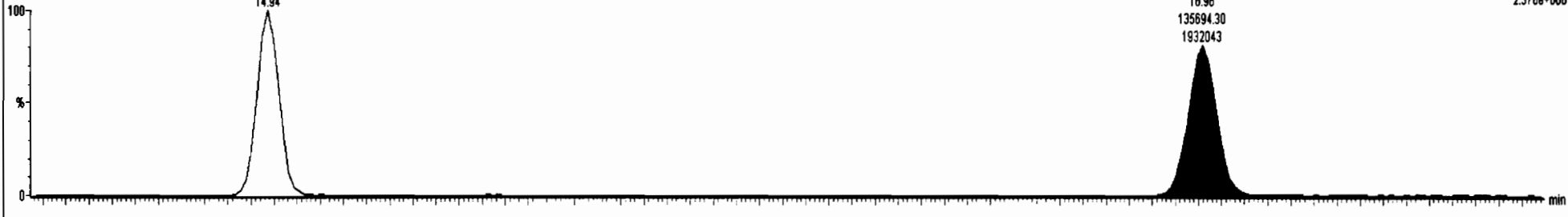
200702D1\_14  
PDI-087SC-B-02-05-200509 2001033-02RE1 PDI-087SC-B-02-05-200509 21.1

Voltage SIR,EI+  
305.898  
9.875e+003



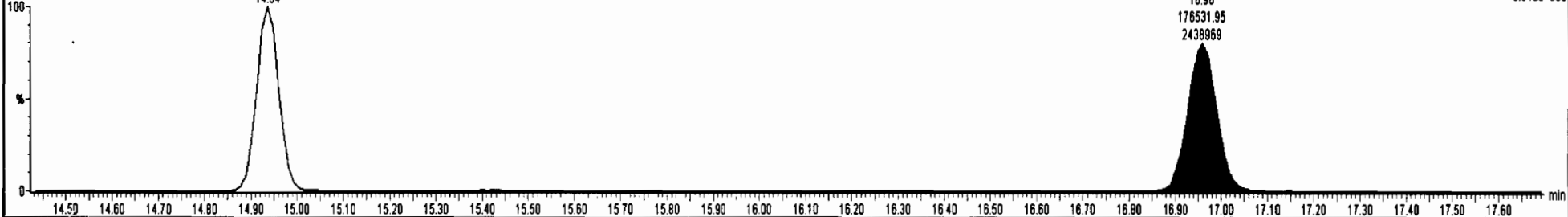
200702D1\_14  
PDI-087SC-B-02-05-200509 2001033-02RE1 PDI-087SC-B-02-05-200509 21.1

Voltage SIR,EI+  
315.9419  
2.376e+006



200702D1\_14  
PDI-087SC-B-02-05-200509 2001033-02RE1 PDI-087SC-B-02-05-200509 21.1

Voltage SIR,EI+  
317.939  
3.040e+006



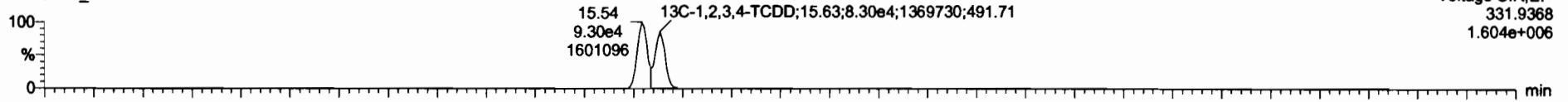
Dataset: U:\VG7.PRO\Results\200702D1\200702D1\_14.qld

Last Altered: Friday, July 03, 2020 09:54:38 Pacific Daylight Time  
Printed: Friday, July 03, 2020 09:55:39 Pacific Daylight Time

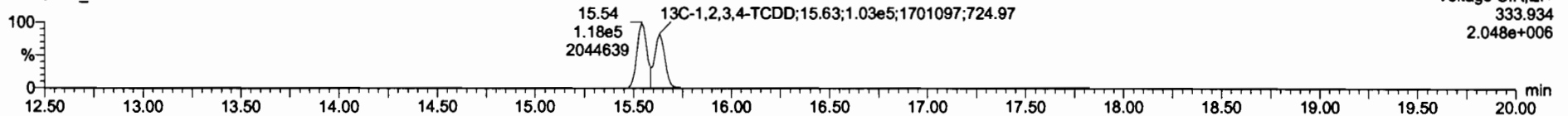
Name: 200702D1\_14, Date: 02-Jul-2020, Time: 22:29:55, ID: 2001033-02RE1 PDI-087SC-B-02-05-200509 21.1, Description: PDI-087SC-B-02-05-200509

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

200702D1\_14

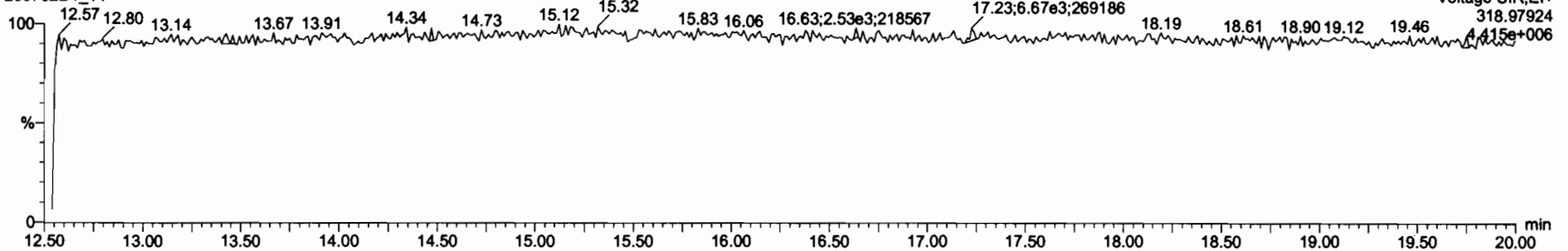


200702D1\_14



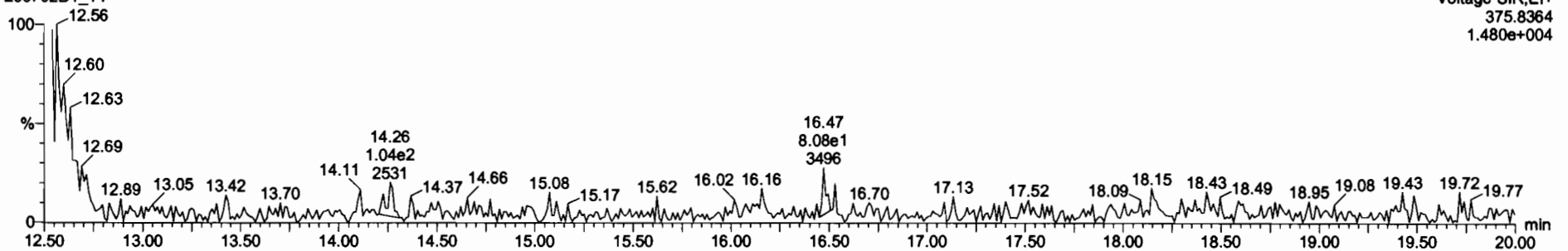
**PFK1**

200702D1\_14



**DPE1**

200702D1\_14



Dataset: U:\VG7.PRO\Results\200702D1\200702D1\_15.qld

Last Altered: Friday, July 03, 2020 09:55:48 Pacific Daylight Time  
Printed: Friday, July 03, 2020 13:42:16 Pacific Daylight Time

*DB 7/3/20*

*C707/10/2020*

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\_15, Date: 02-Jul-2020, Time: 23:01:37, ID: 2001033-04RE1 PDI-089SC-B-00-02-200509 25.42, Description: PDI-089SC-B-00-02-200509

	Resp	RA	ny	RRF	Vol	Peak	RT						
1	2,3,7,8-TCDF	7.09e3	0.77	NO	0.982	11.785	16.980	16.98	1.000	1.001	5.7827	0.354	5.78
2	13C-2,3,7,8-TCDF	2.12e5	0.77	NO	1.08	11.785	16.966	16.96	1.133	1.135	126.16	74.3	0.739
3	13C-1,2,3,4-TCDF	2.63e5	0.78	NO	1.00	11.785	14.920	14.94	1.000	1.000	169.70	100	0.800

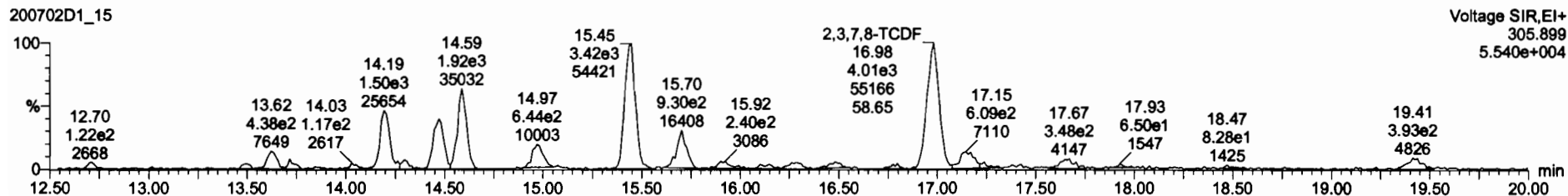
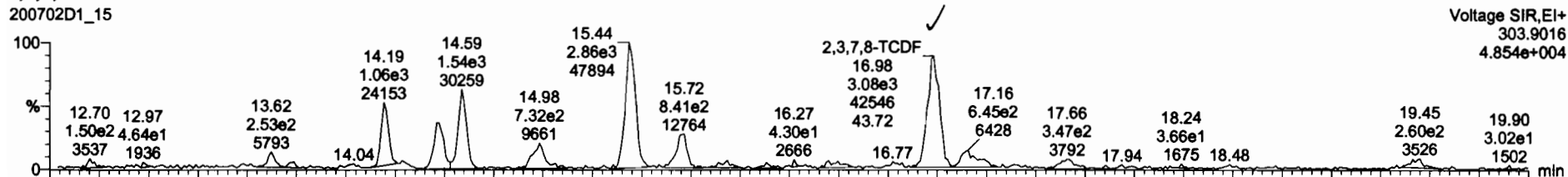
Dataset: U:\VG7.PRO\Results\200702D1\200702D1\_15.qld

Last Altered: Friday, July 03, 2020 09:55:48 Pacific Daylight Time  
Printed: Friday, July 03, 2020 09:56:45 Pacific Daylight Time

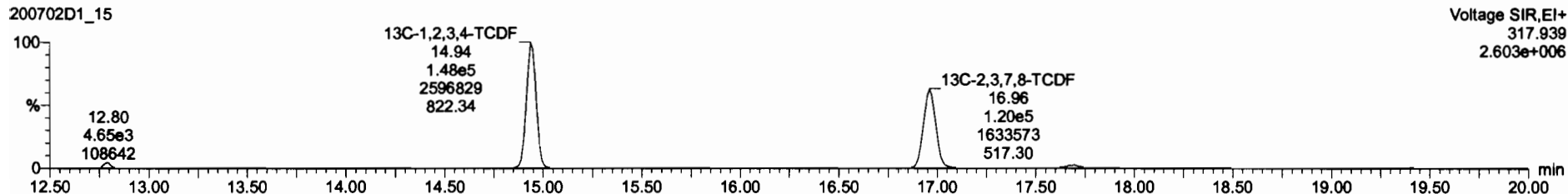
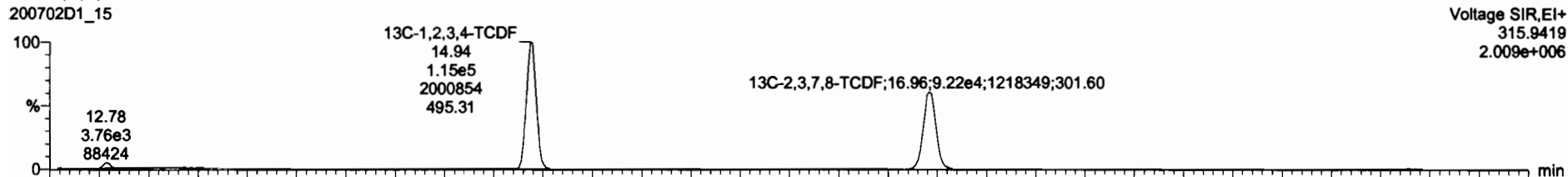
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 03 Jul 2020 09:08:31  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200702D1\_15, Date: 02-Jul-2020, Time: 23:01:37, ID: 2001033-04RE1 PDI-089SC-B-00-02-200509 25.42, Description: PDI-089SC-B-00-02-200509

2,3,7,8-TCDF



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



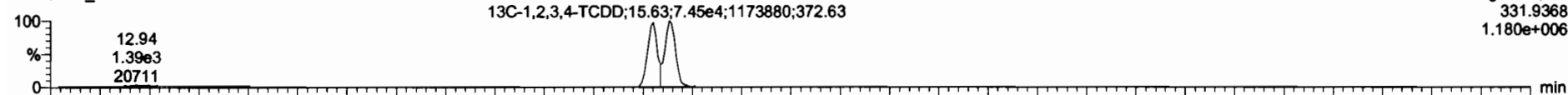
Dataset: U:\VG7.PRO\Results\200702D1\200702D1\_15.qld

Last Altered: Friday, July 03, 2020 09:55:48 Pacific Daylight Time  
Printed: Friday, July 03, 2020 09:56:45 Pacific Daylight Time

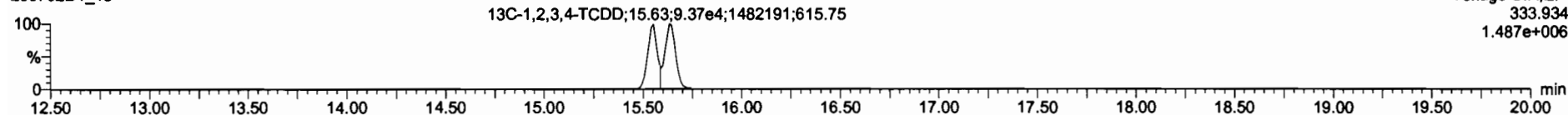
Name: 200702D1\_15, Date: 02-Jul-2020, Time: 23:01:37, ID: 2001033-04RE1 PDI-089SC-B-00-02-200509 25.42, Description: PDI-089SC-B-00-02-200509

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

200702D1\_15

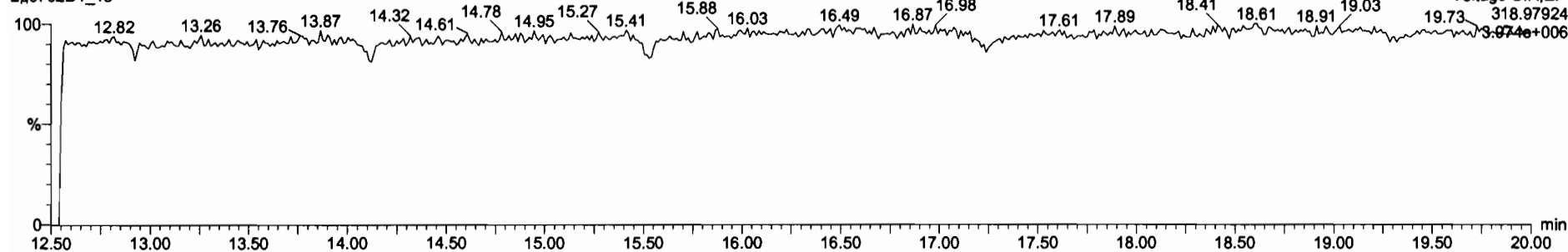


200702D1\_15



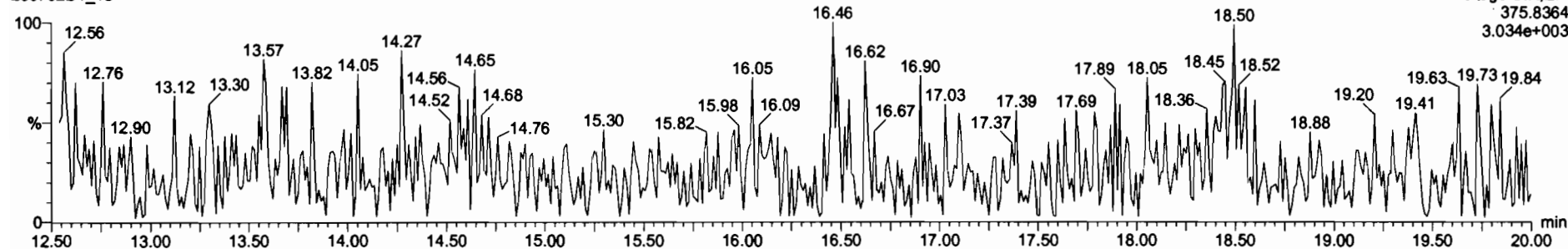
**PFK1**

200702D1\_15



**DPE1**

200702D1\_15



Dataset: U:\VG7.PRO\Results\200703D1\200703D1\_4.qld

Last Altered: Friday, July 03, 2020 14:51:08 Pacific Daylight Time  
Printed: Friday, July 03, 2020 14:51:22 Pacific Daylight Time

*DB 7/3/20 C707/10/200*

Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52

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

Name: 200703D1\_4, Date: 03-Jul-2020, Time: 13:22:48, ID: 2001033-05RE1 PDI-089SC-B-02-05-200509 20.54, Description: PDI-089SC-B-02-05-200509

	RA	ny	RRF	Wt%	Proc								
1 2,3,7,8-TCDF	5.58e2	0.85	NO	0.982	10.415	16.936	16.92	1.000	0.999	1.0414		0.419	1.04
2 13C-2,3,7,8-TCDF	1.05e5	0.76	NO	1.08	10.415	16.882	16.94	1.133	1.136	85.245	44.4	0.704	
3 13C-1,2,3,4-TCDF	2.18e5	0.80	NO	1.00	10.415	15.060	14.91	1.000	1.000	192.04	100	0.762	



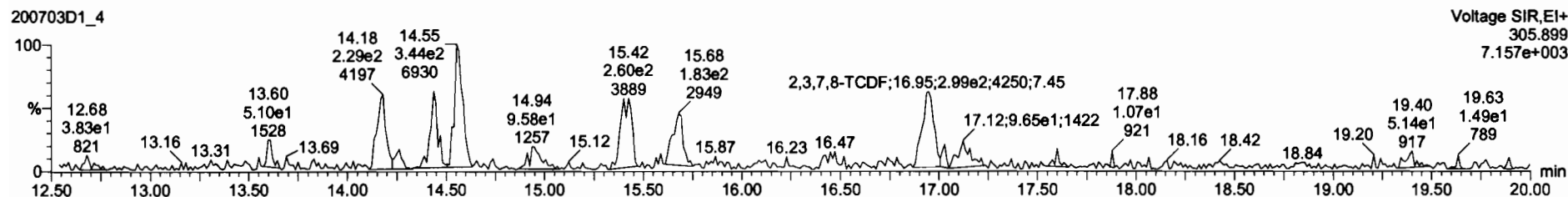
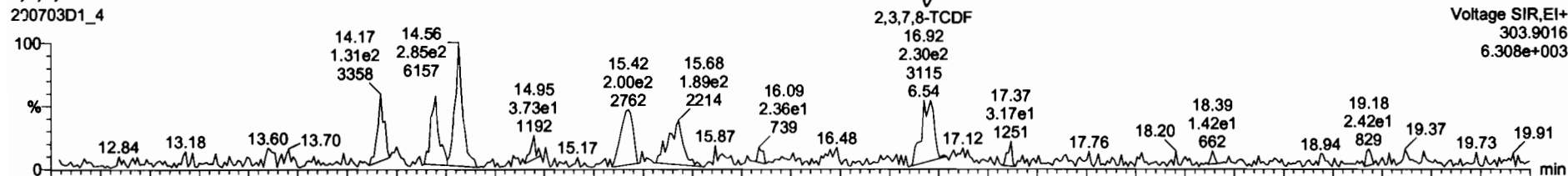
Dataset: U:\VG7.PRO\Results\200703D1\200703D1\_4.qld

Last Altered: Friday, July 03, 2020 14:45:37 Pacific Daylight Time  
Printed: Friday, July 03, 2020 14:49:56 Pacific Daylight Time

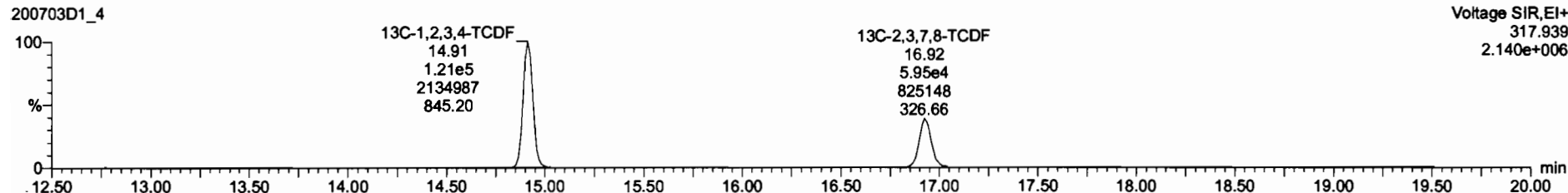
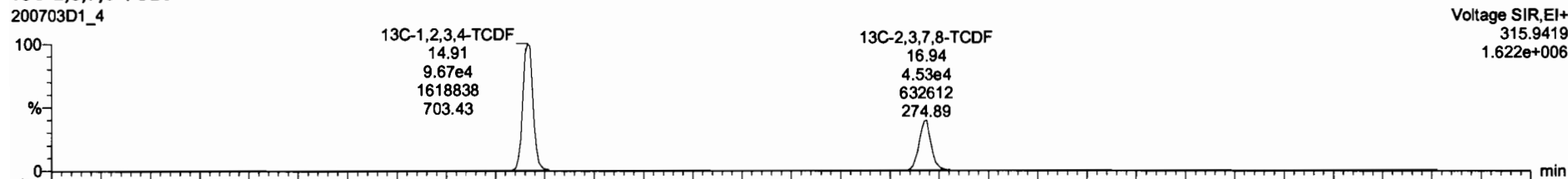
Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

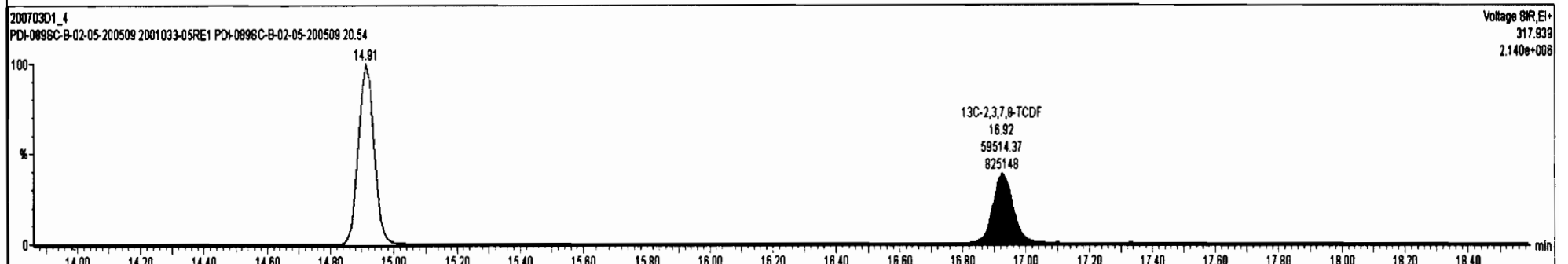
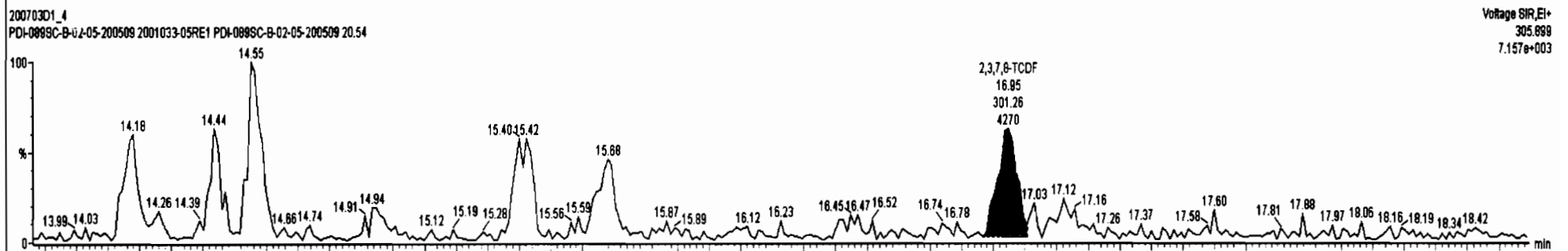
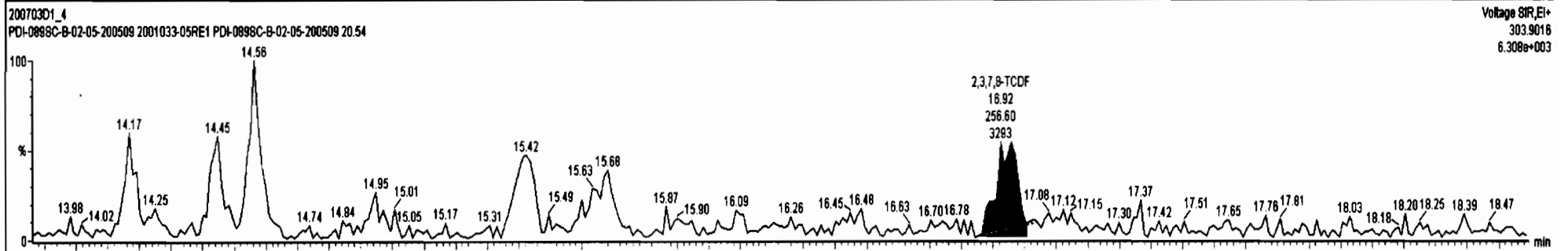
Name: 200703D1\_4, Date: 03-Jul-2020, Time: 13:22:48, ID: 2001033-05RE1 PDI-089SC-B-02-05-200509 20.54, Description: PDI-089SC-B-02-05-200509

2,3,7,8-TCDF



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





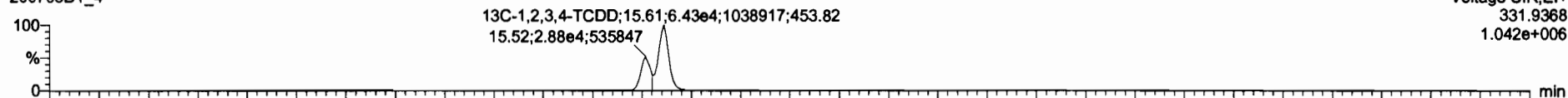
Dataset: U:\VG7.PRO\Results\200703D1\200703D1\_4.qld

Last Altered: Friday, July 03, 2020 14:45:37 Pacific Daylight Time  
Printed: Friday, July 03, 2020 14:49:56 Pacific Daylight Time

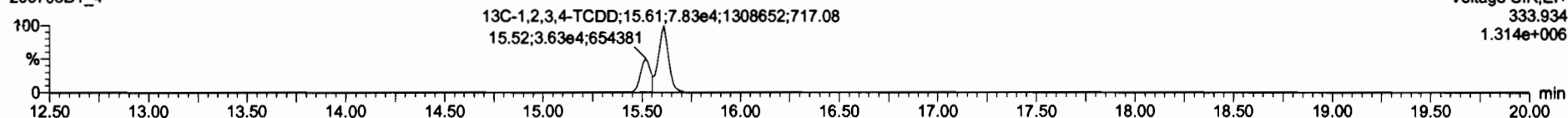
Name: 200703D1\_4, Date: 03-Jul-2020, Time: 13:22:48, ID: 2001033-05RE1 PDI-089SC-B-02-05-200509 20.54, Description: PDI-089SC-B-02-05-200509

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

200703D1\_4

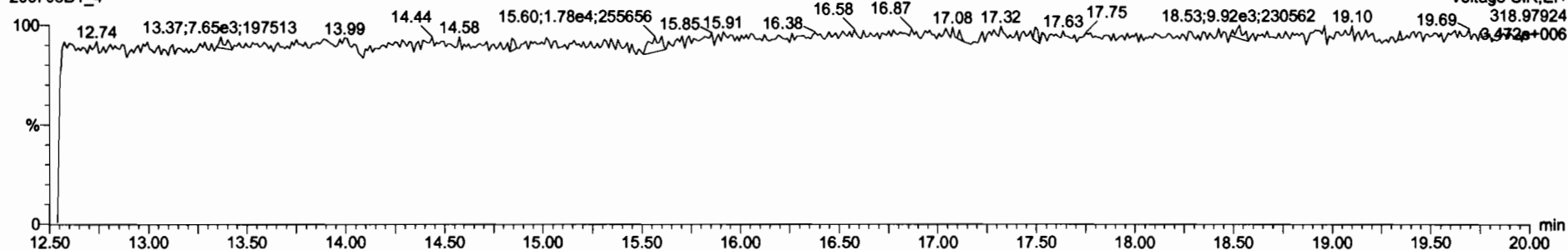


200703D1\_4



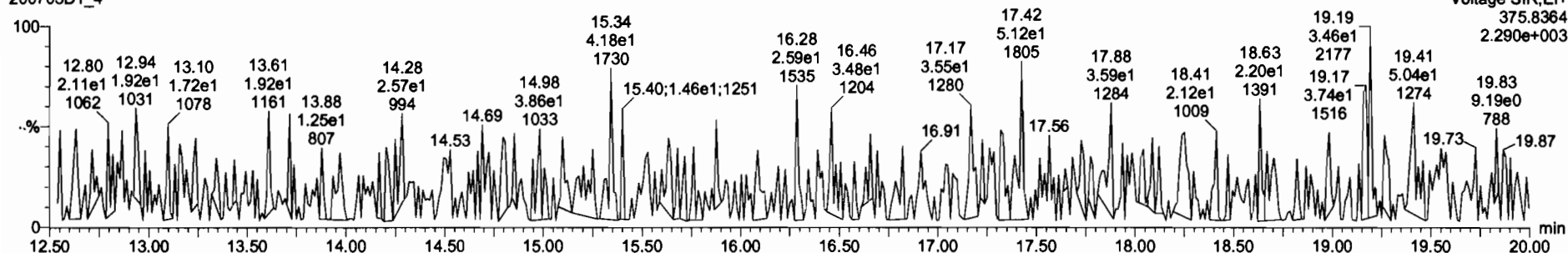
**PFK1**

200703D1\_4



**DPE1**

200703D1\_4



## **CONTINUING CALIBRATION**



Dataset: U:\VG12.PRO\Results\200618R1\200618R1-1.qld

Last Altered: Thursday, June 18, 2020 13:58:48 Pacific Daylight Time

Printed: Thursday, June 18, 2020 13:59:00 Pacific Daylight Time

*GPB 06/18/2020*

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 06/19/2020*

Name: 200618R1\_1, Date: 18-Jun-2020, Time: 13:05:09, ID: ST200618R1\_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	5.35e4	6.03e5	0.75	NO	0.888	26.50	26.48	NO	1.001	1.001	9.9868	99.9	NO
2	2 1,2,3,7,8-PeCDD	1.92e5	4.13e5	0.61	NO	0.908	31.47	31.45	NO	1.001	1.000	51.283	103	NO
3	3 1,2,3,4,7,8-HxCDD	1.47e5	2.82e5	1.32	NO	1.03	34.84	34.84	NO	1.000	1.000	50.371	101	NO
4	4 1,2,3,6,7,8-HxCDD	1.99e5	4.48e5	1.18	NO	0.892	34.92	34.93	NO	1.000	1.000	49.840	99.7	NO
5	5 1,2,3,7,8,9-HxCDD	1.66e5	3.73e5	1.21	NO	0.887	35.22	35.22	NO	1.000	1.000	50.179	100	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.13e5	2.62e5	1.03	NO	0.864	38.76	38.77	NO	1.000	1.001	50.073	100	NO
7	7 OCDD	2.11e5	4.74e5	0.87	NO	0.914	41.74	41.75	NO	1.000	1.000	97.209	97.2	NO
8	8 2,3,7,8-TCDF	5.78e4	8.25e5	0.75	NO	0.751	25.60	25.59	NO	1.001	1.001	9.3233	93.2	NO
9	9 1,2,3,7,8-PeCDF	2.90e5	6.36e5	1.53	NO	0.893	30.17	30.17	NO	1.001	1.001	51.141	102	NO
10	10 2,3,4,7,8-PeCDF	2.87e5	6.10e5	1.63	NO	0.935	31.18	31.15	NO	1.001	1.000	50.397	101	NO
11	11 1,2,3,4,7,8-HxCDF	1.73e5	3.88e5	1.22	NO	0.884	33.94	33.96	NO	1.000	1.001	50.456	101	NO
12	12 1,2,3,6,7,8-HxCDF	2.16e5	5.05e5	1.22	NO	0.889	34.08	34.08	NO	1.000	1.000	48.205	96.4	NO
13	13 2,3,4,6,7,8-HxCDF	1.91e5	4.23e5	1.19	NO	0.934	34.69	34.67	NO	1.001	1.000	48.229	96.5	NO
14	14 1,2,3,7,8,9-HxCDF	1.36e5	3.25e5	1.22	NO	0.871	35.57	35.58	NO	1.000	1.000	48.064	96.1	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.28e5	3.01e5	0.99	NO	0.873	37.38	37.36	NO	1.001	1.001	48.842	97.7	NO
16	16 1,2,3,4,7,8,9-HpCDF	9.38e4	1.90e5	1.00	NO	1.01	39.30	39.31	NO	1.000	1.000	48.691	97.4	NO
17	17 OCDF	2.04e5	5.41e5	0.89	NO	0.806	41.93	41.94	NO	1.000	1.000	93.487	93.5	NO
13	18 13C-2,3,7,8-TCDD	6.03e5	5.25e5	0.80	NO	1.16	26.49	26.47	NO	1.026	1.026	99.293	99.3	NO
19	19 13C-1,2,3,7,8-PeCDD	4.13e5	5.25e5	0.63	NO	0.849	31.67	31.45	NO	1.227	1.219	92.647	92.6	NO
20	20 13C-1,2,3,4,7,8-HxCDD	2.82e5	4.16e5	1.29	NO	0.779	34.82	34.83	NO	1.014	1.014	87.117	87.1	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.48e5	4.16e5	1.29	NO	1.02	34.93	34.92	NO	1.017	1.017	105.93	106	NO
22	22 13C-1,2,3,7,8,9-HxCDD	3.73e5	4.16e5	1.29	NO	0.903	35.20	35.21	NO	1.025	1.025	99.156	99.2	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.62e5	4.16e5	1.04	NO	0.689	38.73	38.74	NO	1.128	1.128	91.175	91.2	NO
24	24 13C-OCDD	4.74e5	4.16e5	0.92	NO	0.652	41.75	41.74	NO	1.216	1.216	174.72	87.4	NO
25	25 13C-2,3,7,8-TCDF	8.25e5	8.11e5	0.76	NO	1.06	25.53	25.57	NO	0.989	0.991	96.028	96.0	NO
26	26 13C-1,2,3,7,8-PeCDF	6.36e5	8.11e5	1.61	NO	0.838	30.06	30.15	NO	1.165	1.168	93.545	93.5	NO
27	27 13C-2,3,4,7,8-PeCDF	6.10e5	8.11e5	1.64	NO	0.817	31.01	31.15	NO	1.202	1.207	92.051	92.1	NO
28	28 13C-1,2,3,4,7,8-HxCDF	3.88e5	4.16e5	0.50	NO	1.01	33.95	33.94	NO	0.989	0.989	92.619	92.6	NO
29	29 13C-1,2,3,6,7,8-HxCDF	5.05e5	4.16e5	0.53	NO	1.17	34.07	34.07	NO	0.992	0.992	103.88	104	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.23e5	4.16e5	0.49	NO	1.02	34.65	34.65	NO	1.009	1.009	99.576	99.6	NO
31	31 13C-1,2,3,7,8,9-HxCDF	3.25e5	4.16e5	0.47	NO	0.860	35.55	35.57	NO	1.035	1.036	90.895	90.9	NO

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-1.qld

Last Altered: Thursday, June 18, 2020 13:58:48 Pacific Daylight Time

Printed: Thursday, June 18, 2020 13:59:00 Pacific Daylight Time

Name: 200618R1\_1, Date: 18-Jun-2020, Time: 13:05:09, ID: ST200618R1\_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	3.01e5	4.16e5	0.41	NO	0.774	37.30	37.34	NO	1.086	1.087	93.239	93.2	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.90e5	4.16e5	0.41	NO	0.521	39.32	39.30	NO	1.145	1.145	87.672	87.7	NO
34	34 13C-OCDF	5.41e5	4.16e5	0.85	NO	0.746	41.92	41.93	NO	1.221	1.221	174.43	87.2	NO
35	35 37Cl-2,3,7,8-TCDD	5.37e4	5.25e5			1.04	26.52	26.48	NO	1.028	1.026	9.8770	98.8	NO
36	36 13C-1,2,3,4-TCDD	5.25e5	5.25e5	0.80	NO	1.00	25.89	25.81	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	8.11e5	8.11e5	0.79	NO	1.00	24.36	24.12	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	4.16e5	4.16e5	0.51	NO	1.00	34.42	34.34	NO	1.000	1.000	100.00	100	YESOK

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Friday, June 19, 2020 07:24:58 Pacific Daylight Time

Printed: Friday, June 19, 2020 07:25:14 Pacific Daylight Time

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

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

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

	Name	ID	Acq.Date	Acq.Time
1	200618R1_1	ST200618R1_1 1613 CS3 19L2305	18-Jun-20	13:05:09
2	200618R1_2	B0E0232-BS1 OPR 10	18-Jun-20	13:52:57
3	200618R1_3	B0F0044-BS1 OPR 10	18-Jun-20	14:39:07
4	200618R1_4	SOLVENT BLANK	18-Jun-20	15:25:46
5	200618R1_5	B0E0232-BLK1 Method Blank 10	18-Jun-20	16:12:01
6	200618R1_6	B0F0044-BLK1 Method Blank 10	18-Jun-20	16:58:13
7	200618R1_7	B0F0113-BLK1 Method Blank 1	18-Jun-20	17:44:25
8	200618R1_8	2001033-02 PDI-087SC-B-02-05-200509 21.1	18-Jun-20	18:30:37
9	200618R1_9	2001033-03 PDI-087SC-B-05-07-200509 19.38	18-Jun-20	19:16:49
10	200618R1_10	2001033-04 PDI-089SC-B-00-02-200509 25.42	18-Jun-20	20:03:01
11	200618R1_11	2001033-05 PDI-089SC-B-02-05-200509 20.54	18-Jun-20	20:49:13
12	200618R1_12	2001033-06 PDI-089SC-B-05-07-200509 25.5	18-Jun-20	21:35:26
13	200618R1_13	2000965-05RE1 PDI-150SC-A-04-05-200425 ...	18-Jun-20	22:21:39
14	200618R1_14	2000855-15RE2 PDI-076SC-A-06-07-191013 ...	18-Jun-20	23:07:52
15	200618R1_15	B0F0044-DUP1 Duplicate 12.5	18-Jun-20	23:54:03



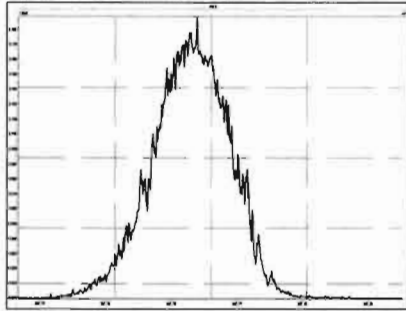
Experiment Calibration Report

MassLynx 4.1 SCN815

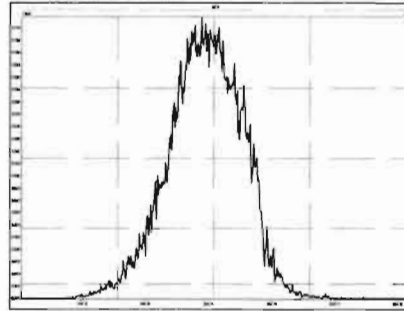
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, June 18, 2020 12:59:07 Pacific Daylight Time

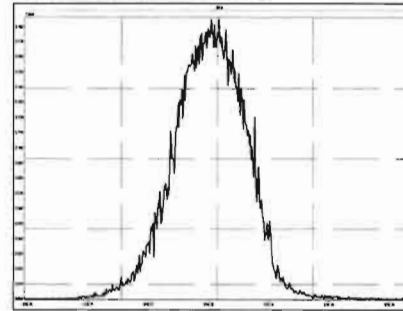
M 292.9824 R 10914



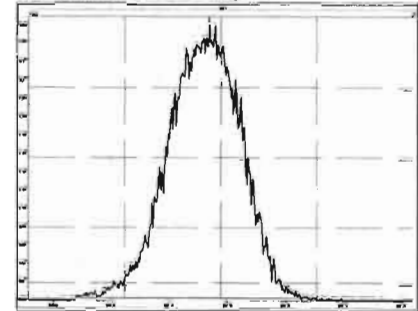
M 304.9824 R 11313



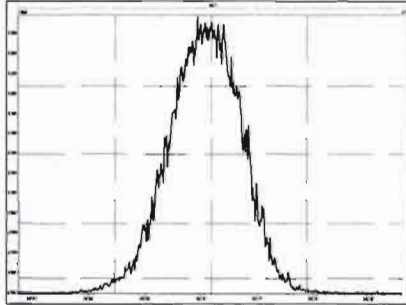
M 318.9792 R 11960



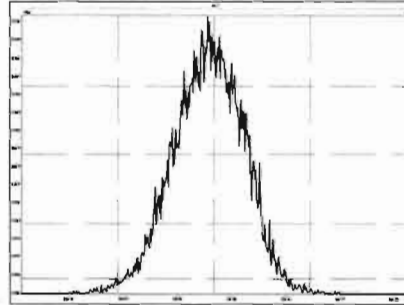
M 330.9792 R 11844



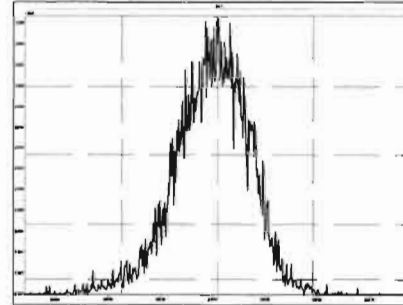
M 342.9792 R 11847



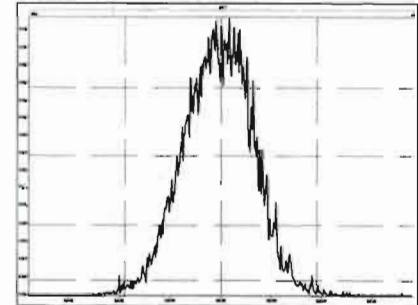
M 354.9792 R 11794



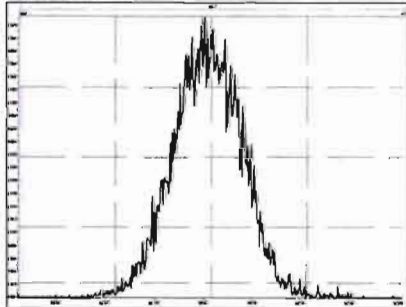
M 366.9792 R 12315



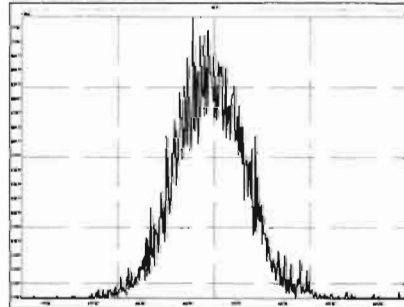
M 380.9760 R 12134



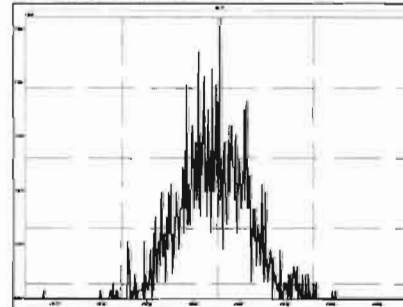
M 392.9760 R 12887



M 404.9760 R 12313



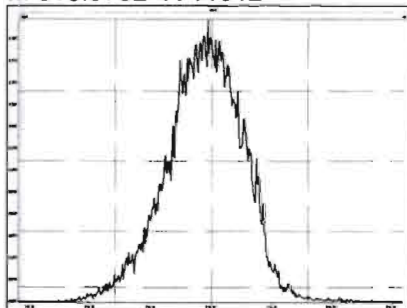
M 416.9760 R 15056



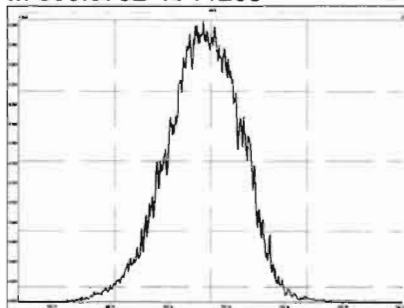
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, June 18, 2020 12:59:52 Pacific Daylight Time

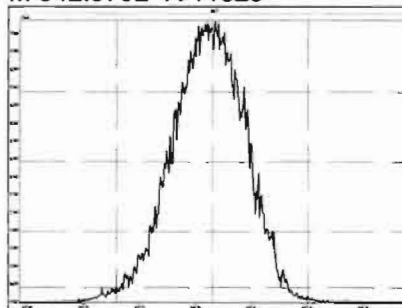
M 318.9792 R 11012



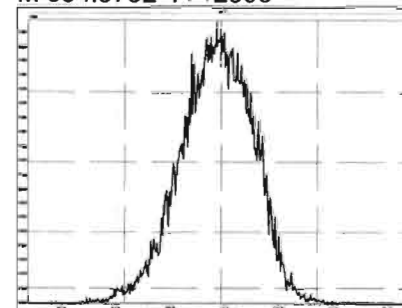
M 330.9792 R 11263



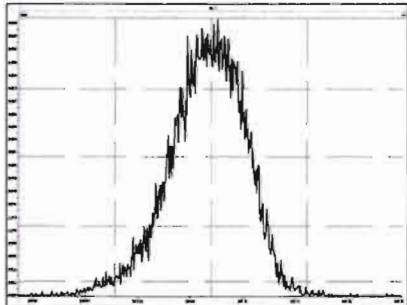
M 342.9792 R 11628



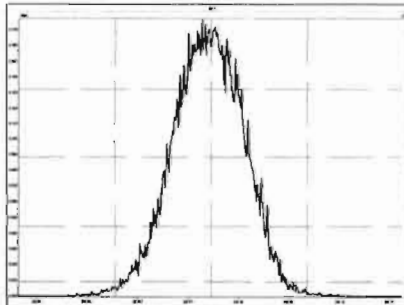
M 354.9792 R 12503



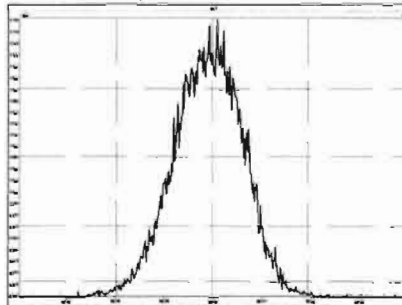
M 366.9792 R 12190



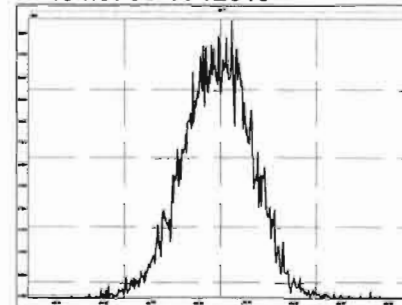
M 380.9760 R 11960



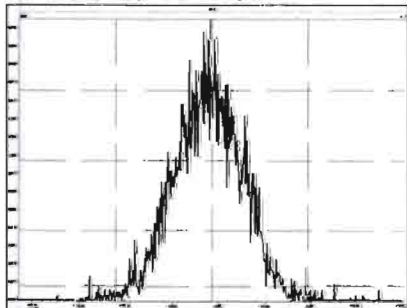
M 392.9760 R 12312



M 404.9760 R 12819



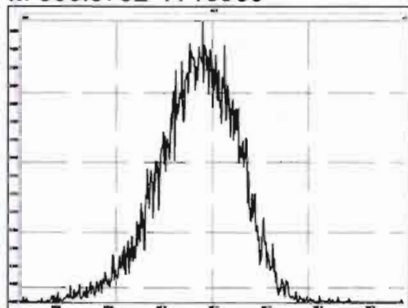
M 416.9760 R 14453



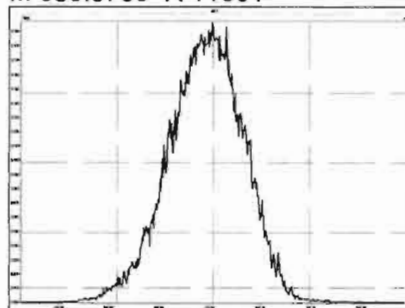
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, June 18, 2020 13:00:18 Pacific Daylight Time

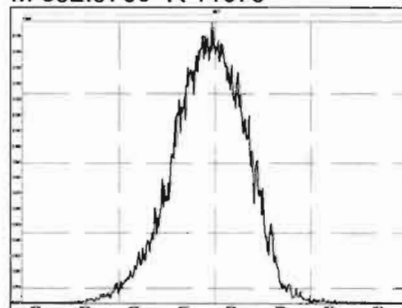
M 366.9792 R 10966



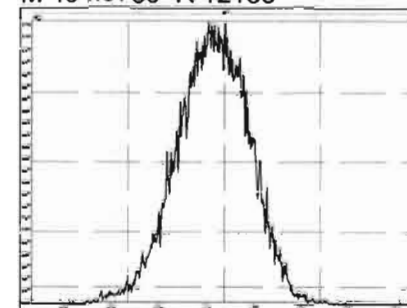
M 380.9760 R 11061



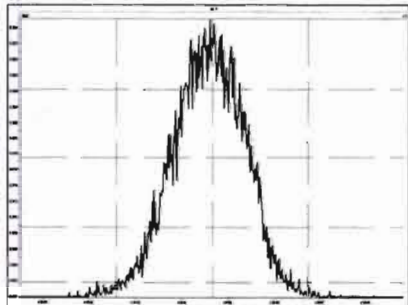
M 392.9760 R 11679



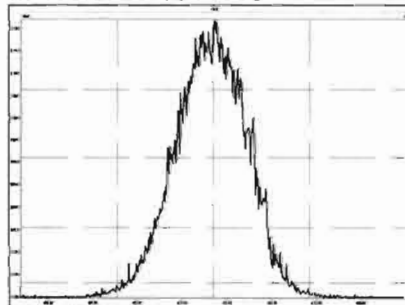
M 404.9760 R 12135



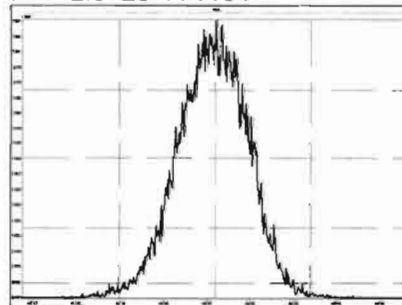
M 416.9760 R 11902



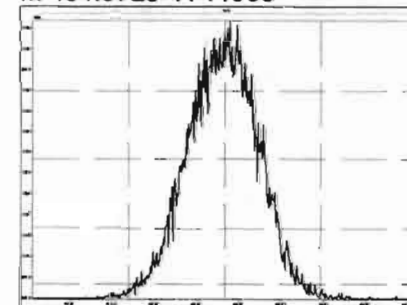
M 430.9728 R 11905



M 442.9728 R 11847



M 454.9728 R 11958



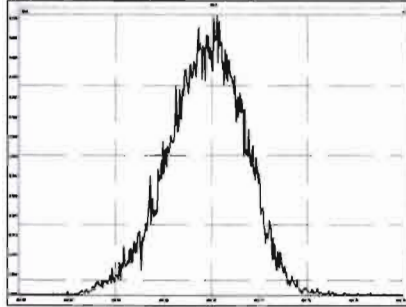
Experiment Calibration Report

MassLynx 4.1 SCN815

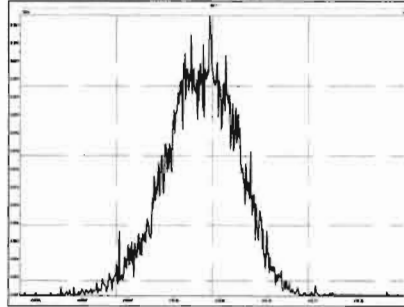
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Printed: Thursday, June 18, 2020 13:00:40 Pacific Daylight Time

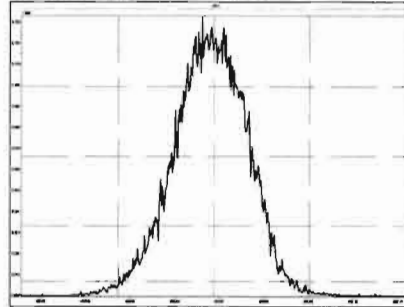
M 404.9760 R 11161



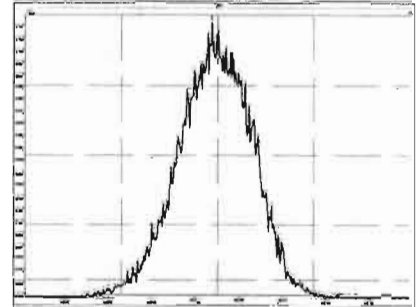
M 416.9760 R 12253



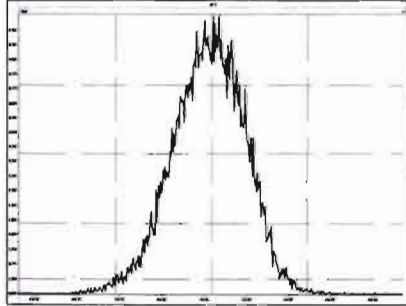
M 430.9728 R 11469



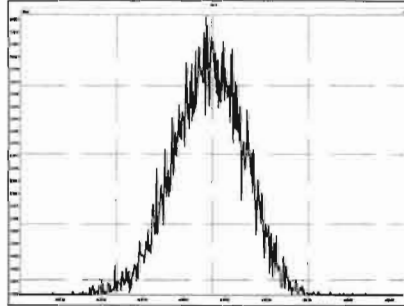
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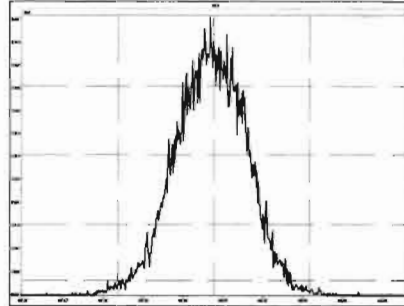
M 454.9728 R 11572



M 466.9728 R 12953



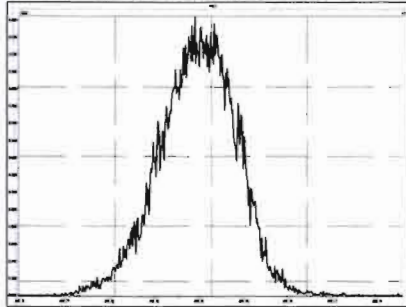
M 480.9696 R 11903



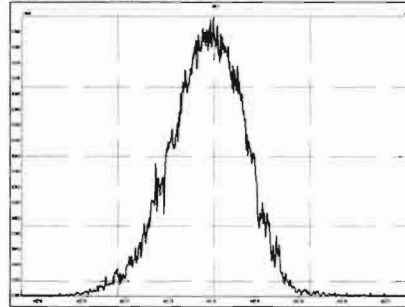
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Printed: Thursday, June 18, 2020 13:01:05 Pacific Daylight Time

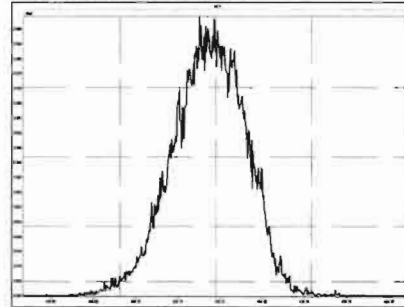
M 430.9728 R 10463



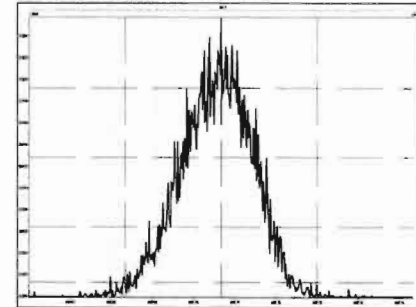
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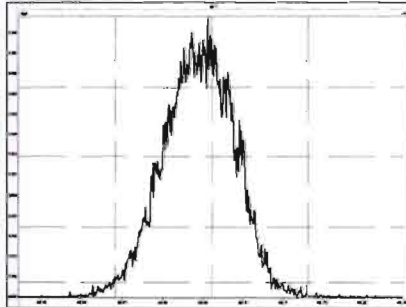
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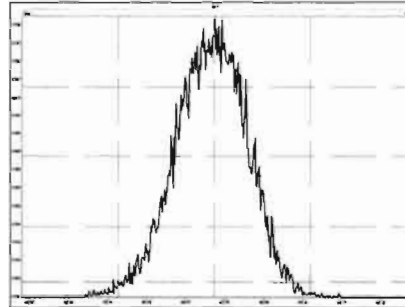
M 466.9728 R 12818



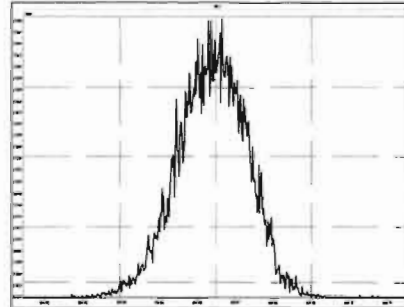
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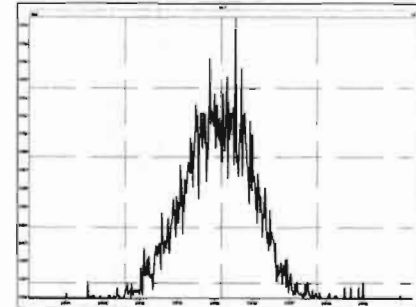
M 492.9696 R 11961



M 504.9696 R 12377



M 516.9697 R 13227



Dataset: Untitled

Last Altered: Thursday, June 18, 2020 13:52:10 Pacific Daylight Time

Printed: Thursday, June 18, 2020 13:52:15 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: 200618R1\_1, Date: 18-Jun-2020, Time: 13:05:09, ID: ST200618R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	RT
1	1 1,3,6,8-TCDD (First)	22.44
2	2 1,2,8,9-TCDD (Last)	27.44
3	3 1,2,4,7,9-PeCDD (First)	29.24
4	4 1,2,3,8,9-PeCDD (Last)	31.85
5	5 1,2,4,6,7,9-HxCDD (First)	33.32
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)	20.32
10	10 1,2,8,9-TCDF (Last)	27.61
11	11 1,3,4,6,8-PeCDF (First)	27.56
12	12 1,2,3,8,9-PeCDF (Last)	32.09
13	13 1,2,3,4,6,8-HxCDF (First)	32.78
14	14 1,2,3,7,8,9-HxCDF (Last)	35.58
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.36
16	16 1,2,3,4,7,8,9-HpCDF (Last)	39.31

Dataset: Untitled

Last Altered: Thursday, June 18, 2020 13:52:10 Pacific Daylight Time

Printed: Thursday, June 18, 2020 13:52:15 Pacific Daylight Time

GRB 06/18/2020

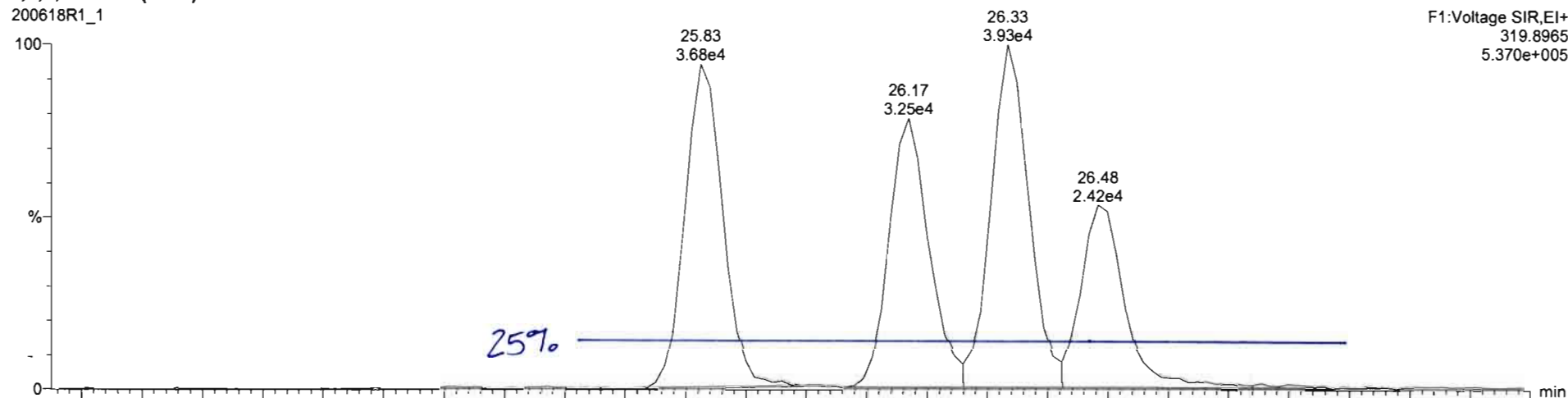
Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

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

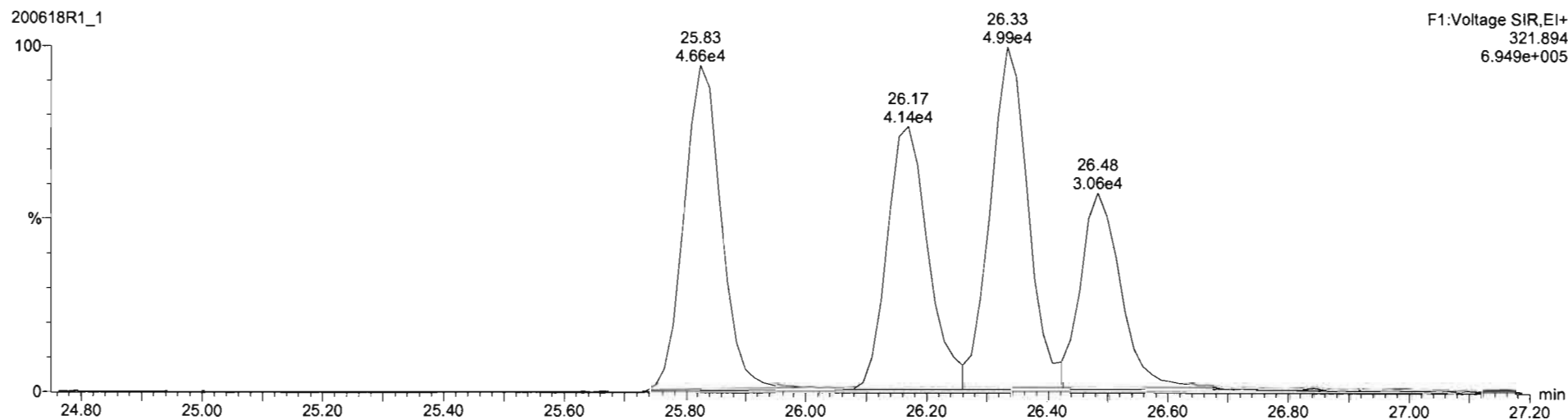
Name: 200618R1\_1, Date: 18-Jun-2020, Time: 13:05:09, ID: ST200618R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200618R1\_1



200618R1\_1





Dataset: Untitled

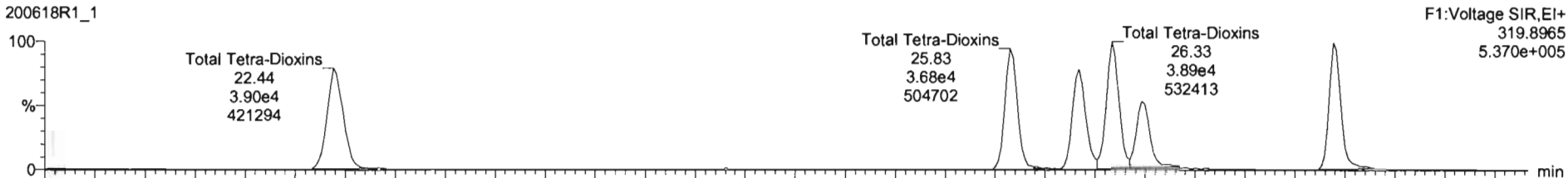
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Printed: Thursday, June 18, 2020 13:54:22 Pacific Daylight Time

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

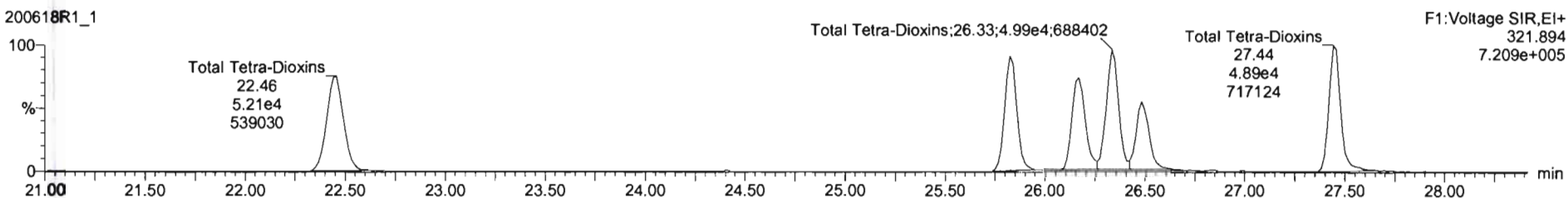
Name: 200618R1\_1, Date: 18-Jun-2020, Time: 13:05:09, ID: ST200618R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200618R1\_1

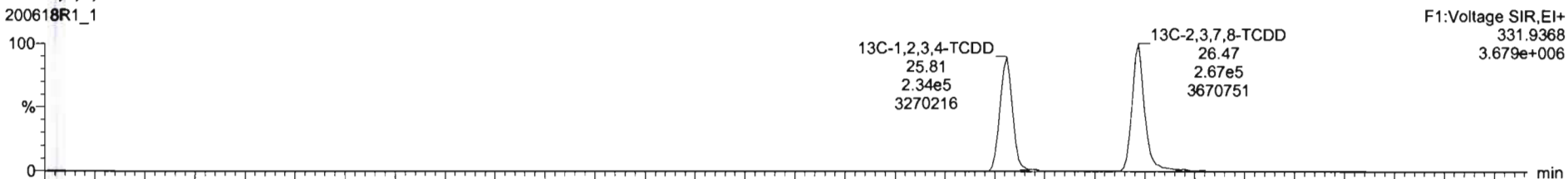


200618R1\_1

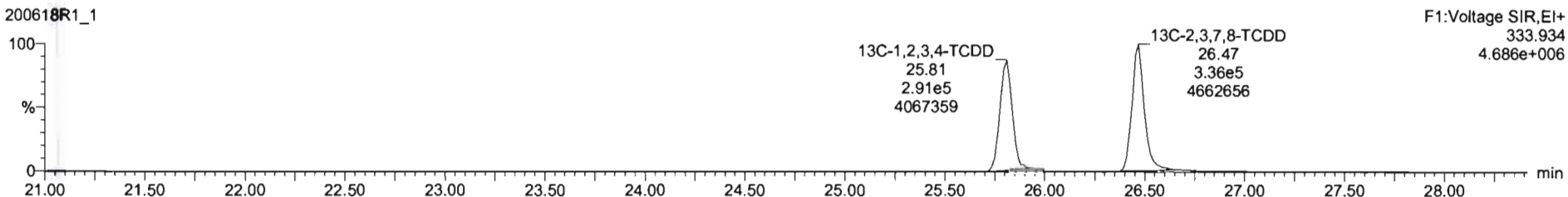


**13C-2,3,7,8-TCDD**

200618R1\_1



200618R1\_1





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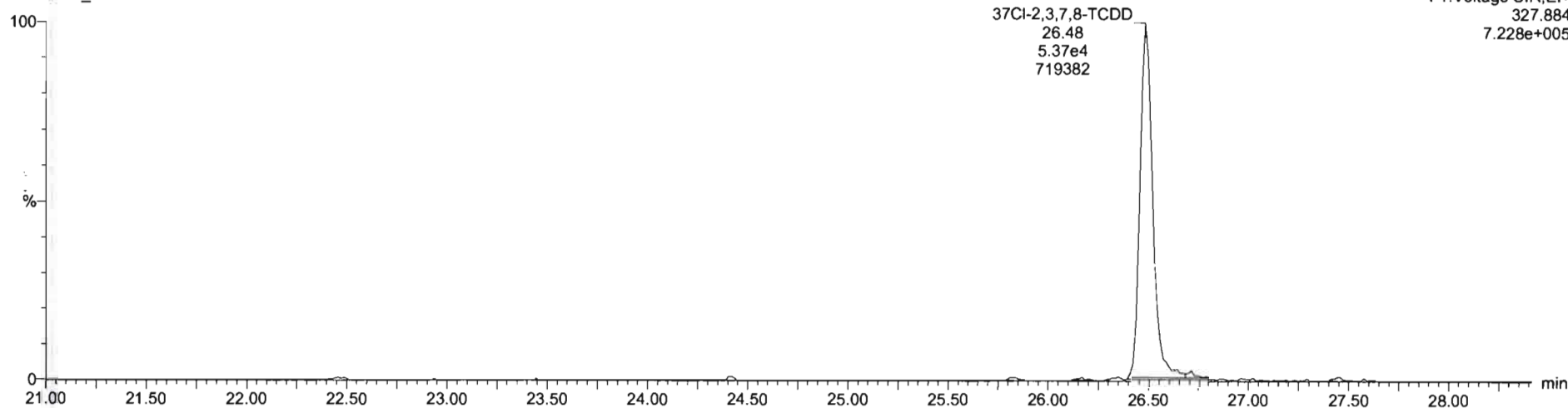
Last Altered: Thursday, June 18, 2020 13:53:51 Pacific Daylight Time

Printed: Thursday, June 18, 2020 13:54:22 Pacific Daylight Time

Name: 200618R1\_1, Date: 18-Jun-2020, Time: 13:05:09, ID: ST200618R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

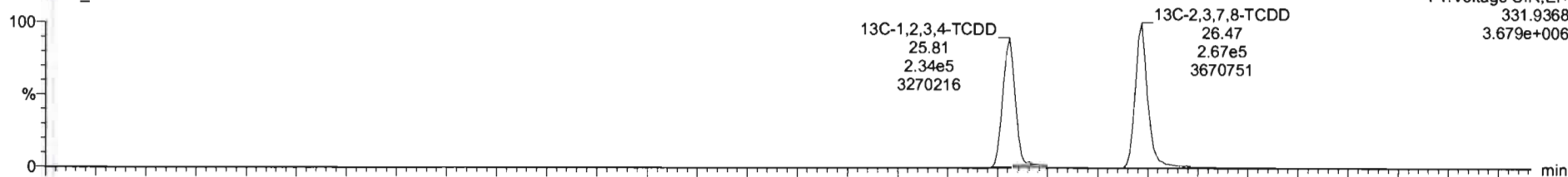
**37Cl-2,3,7,8-TCDD**

200618R1\_1

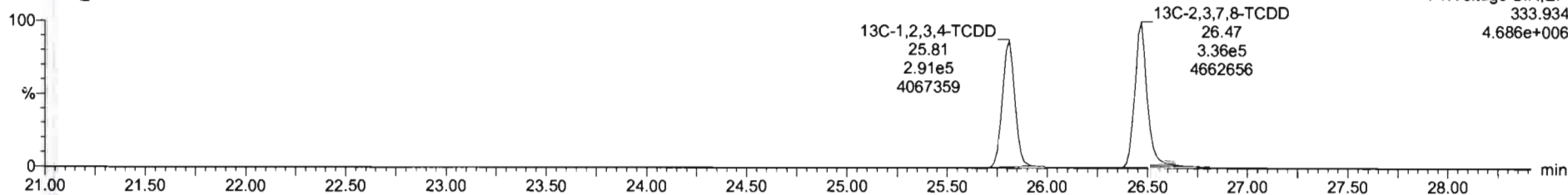


**13C-1,2,3,4-TCDD**

200618R1\_1



200618R1\_1



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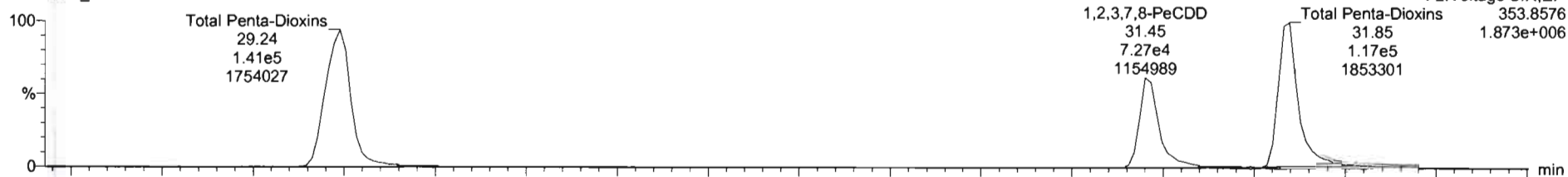
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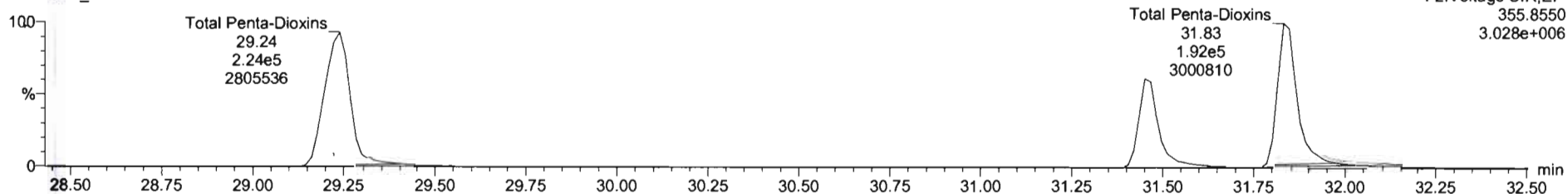
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**1,2,3,7,8-PeCDD**

200618R1\_1

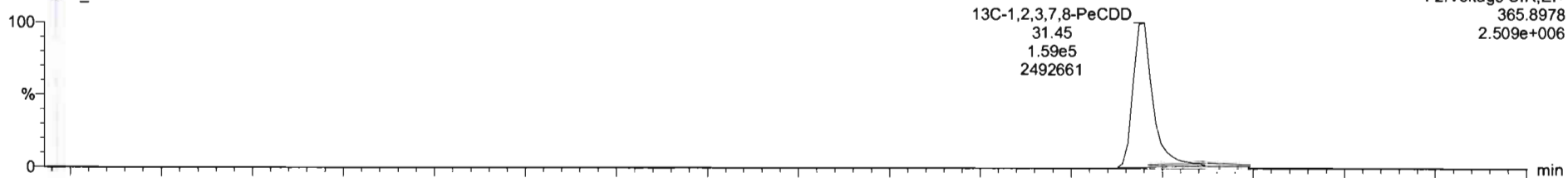


200618R1\_1

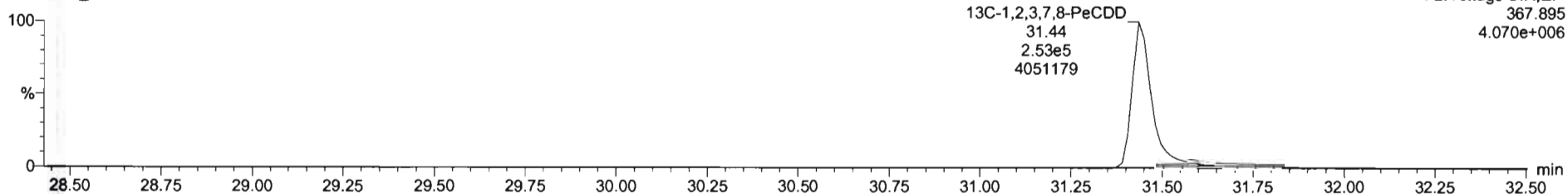


**<sup>13</sup>C-1,2,3,7,8-PeCDD**

200618R1\_1



200618R1\_1



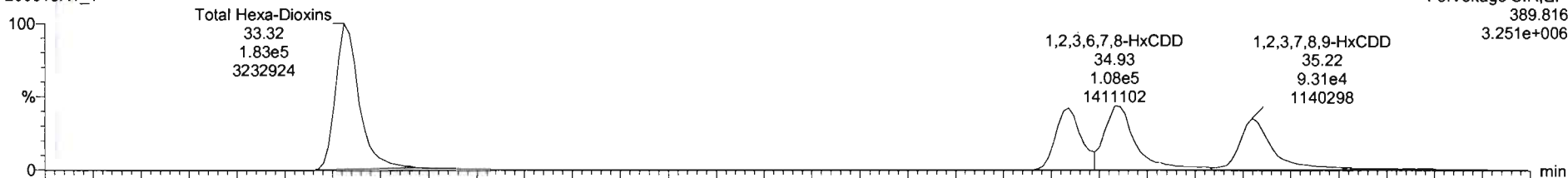
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Printed: Thursday, June 18, 2020 13:54:22 Pacific Daylight Time

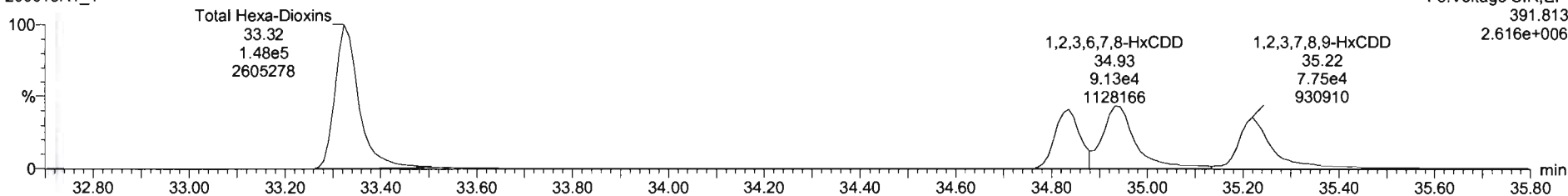
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**1,2,3,4,7,8-HxCDD**

200618R1\_1

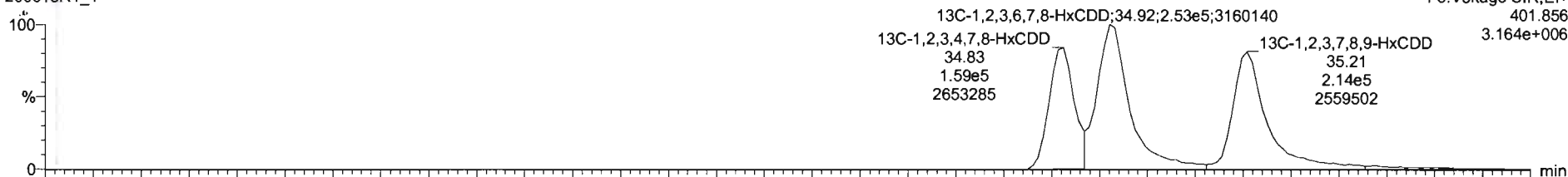


200618R1\_1

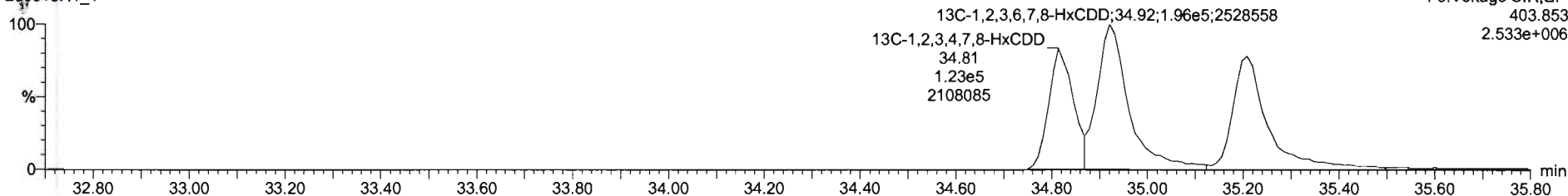


**13C-1,2,3,4,7,8-HxCDD**

200618R1\_1



200618R1\_1

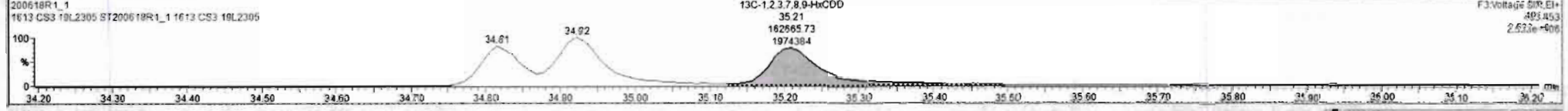
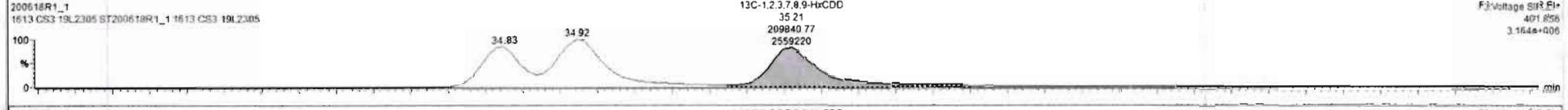
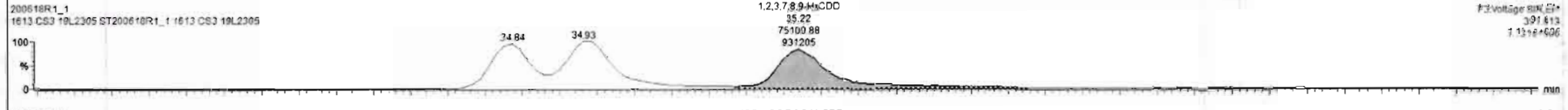
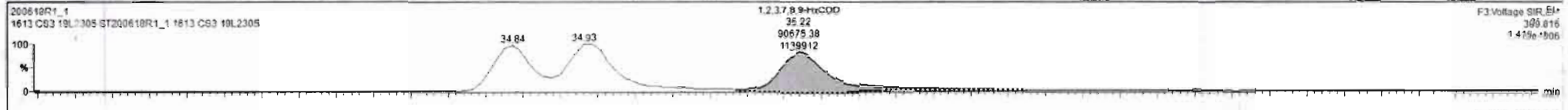


TargetLynx - 200618R1\_1.qld - [Chromatogram]

File Edit View Display Processing Window Help

200618R1\_1 - ST200618R1\_1 1613 CS3 19L2305 1613 CS3 19L2305

#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	1,2,3,7,8-TCDD	5.25e4	6.03e5	0.77	0.75	NO	0.8883	26.50	26.48	NO	1.001	1.001	9.99	99.9	NO
2	1,2,3,7,8-PeCDD	1.92e5	4.13e5	0.63	0.61	NO	0.9051	31.47	31.45	NO	1.001	1.000	51.3	103	NO
3	1,2,3,4,7,8-HxCDD	1.47e5	2.82e5	1.24	1.32	NO	1.0334	34.84	34.84	NO	1.000	1.000	50.4	101	NO
4	1,2,3,6,7,8-HxCDD	1.99e5	4.48e5	1.24	1.18	NO	0.8923	34.92	34.93	NO	1.000	1.000	49.8	99.7	NO
5	1,2,3,7,8,9-HxCDD	1.86e5	3.73e5	1.24	1.21	NO	0.8669	35.22	35.22	NO	1.000	1.000	56.2	100	NO
6	1,2,3,4,6,7,8-HpCDD	1.12e5	2.61e5	1.04	1.05	NO	0.9639	38.76	38.77	NO	1.000	1.001	49.5	99.1	NO
7	OCDD	2.16e5	4.78e5	0.89	0.87	NO	0.9136	41.74	41.75	NO	1.000	1.000	99.0	99.0	NO
8	2,3,7,8-TCDF	5.78e4	8.25e5	0.77	0.75	NO	0.7510	25.60	25.59	NO	1.001	1.001	9.32	93.2	NO
9	1,2,3,7,8-PeCDF	2.90e5	6.38e5	1.55	1.53	NO	0.8925	30.17	30.17	NO	1.001	1.001	51.1	102	NO
10	2,3,4,7,8-PeCDF	2.87e5	6.10e5	1.55	1.63	NO	0.9348	31.18	31.15	NO	1.001	1.000	50.4	101	NO
11	1,7,8,9-HxCDF	1.73e5	3.88e5	1.24	1.22	NO	0.8845	33.94	33.96	NO	1.000	1.001	50.5	101	NO
12	1,2,3,6,7,8-HxCDF	2.16e5	5.05e5	1.24	1.22	NO	0.8892	34.08	34.08	NO	1.000	1.000	48.2	96.4	NO
13	2,3,4,6,7,8-HxCDF	1.91e5	4.23e5	1.24	1.19	NO	0.9341	34.69	34.67	NO	1.001	1.000	48.2	96.5	NO
14	1,2,3,7,8,9-HxCDF	1.35e5	3.32e5	1.24	1.17	NO	0.8707	35.57	35.58	NO	1.000	1.000	46.7	93.4	NO
15	1,2,3,4,6,7,8-HpCDF	1.31e5	3.06e5	1.04	0.98	NO	0.8734	37.38	37.38	NO	1.001	1.001	48.9	97.8	NO
16	1,2,3,4,7,8,9-HpCDF	9.75e4	1.92e5	1.04	1.00	NO	1.0125	39.30	39.31	NO	1.000	1.000	50.2	100	NO
17	OCDF	2.04e5	5.41e5	0.99	0.99	NO	0.8055	41.93	41.94	NO	1.000	1.000	93.5	93.5	NO
18	13C-2,3,7,8-TCDD	6.03e5	5.25e5	0.77	0.90	NO	1.1563	26.49	26.47	NO	1.026	1.026	99.2	99.3	NO
19	13C-1,2,3,7,8-PeCDD	4.13e5	5.25e5	0.63	0.63	NO	0.9490	31.67	31.45	NO	1.227	1.219	92.6	92.8	NO
20	13C-1,2,3,4,7,8-HxCDD	2.82e5	4.16e5	1.24	1.29	NO	0.7790	34.82	34.83	NO	1.014	1.014	87.1	87.1	NO
21	13C-1,2,3,6,7,8-HxCDD	4.48e5	4.16e5	1.24	1.29	NO	1.8167	34.93	34.92	NO	1.017	1.017	106	106	NO



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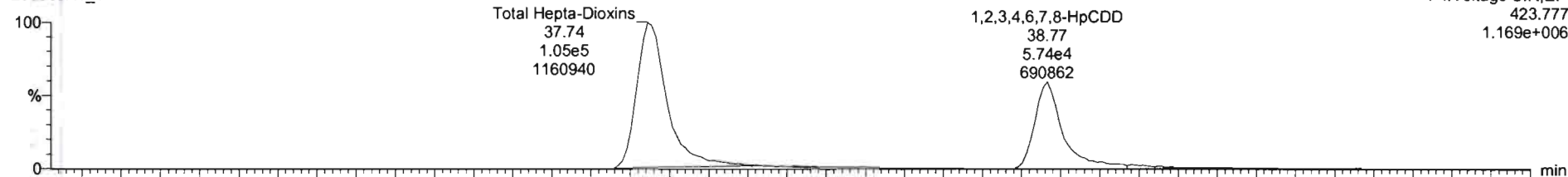
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Printed: Thursday, June 18, 2020 13:54:22 Pacific Daylight Time

Name: 200618R1\_1, Date: 18-Jun-2020, Time: 13:05:09, ID: ST200618R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

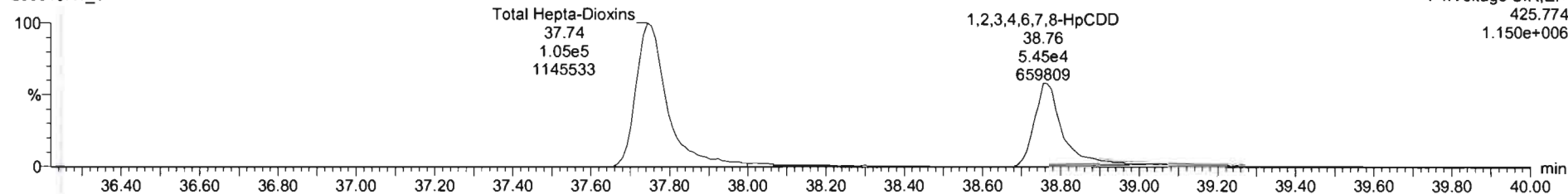
1,2,3,4,6,7,8-HpCDD

200618R1\_1



F4:Voltage SIR,EI+  
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1.169e+006

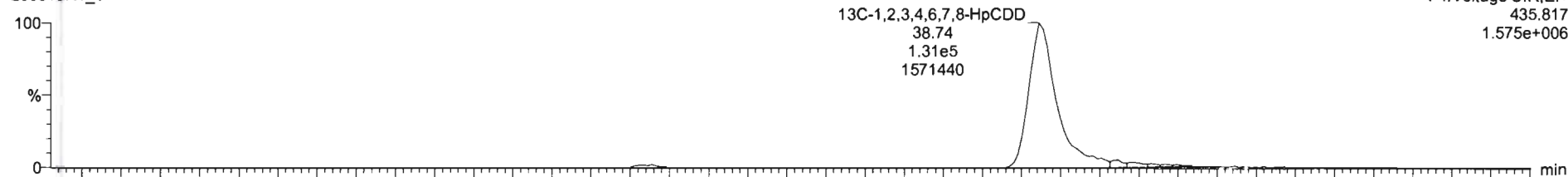
200618R1\_1



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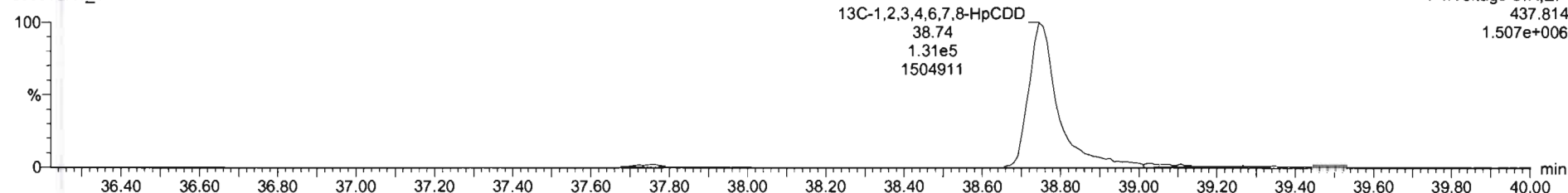
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200618R1\_1



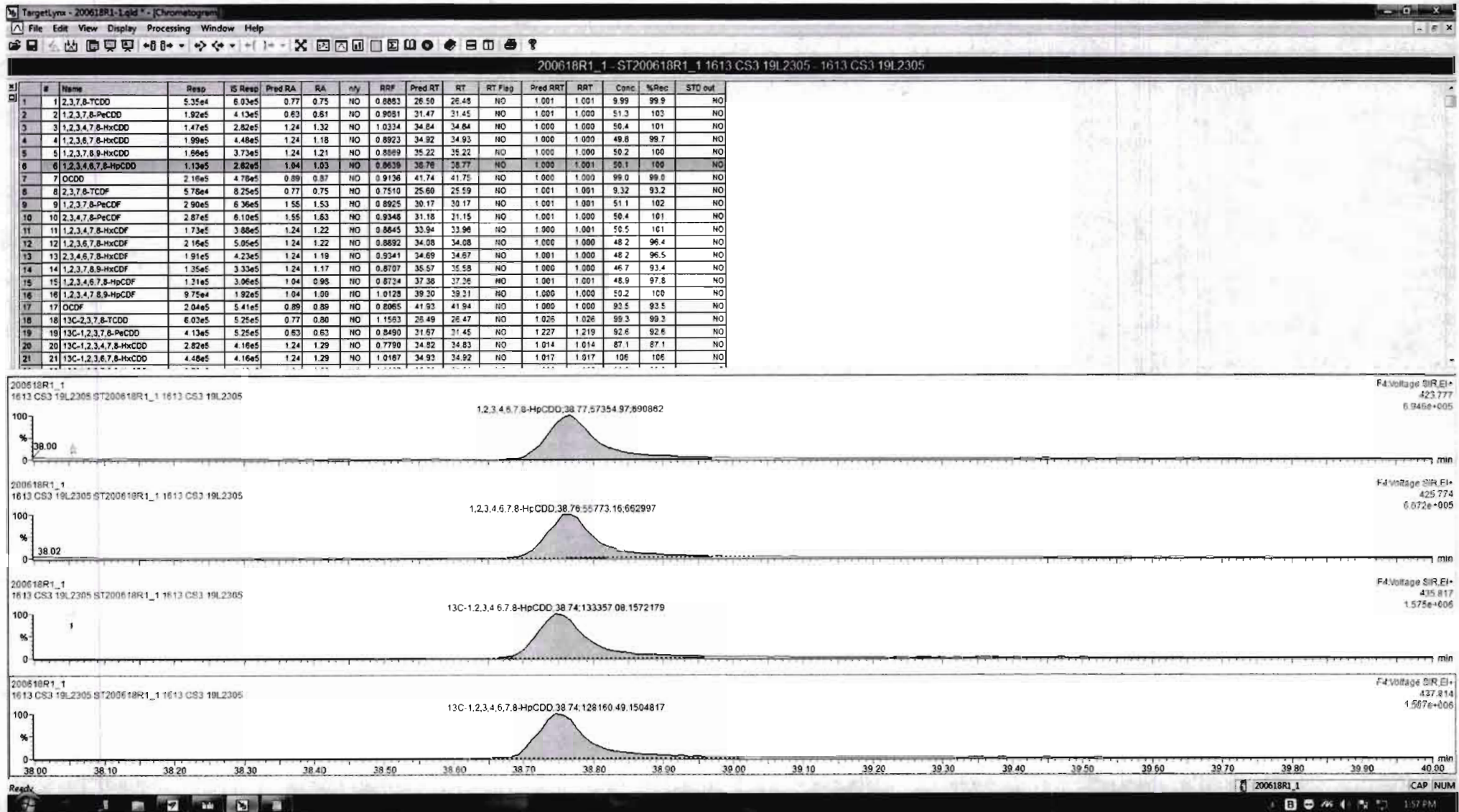
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200618R1\_1



F4:Voltage SIR,EI+  
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1.507e+006





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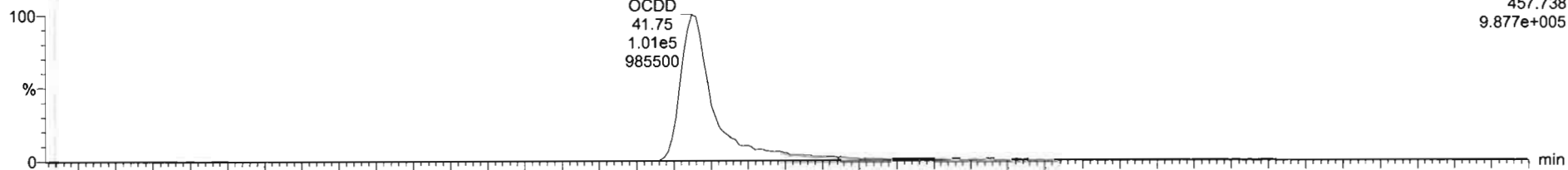
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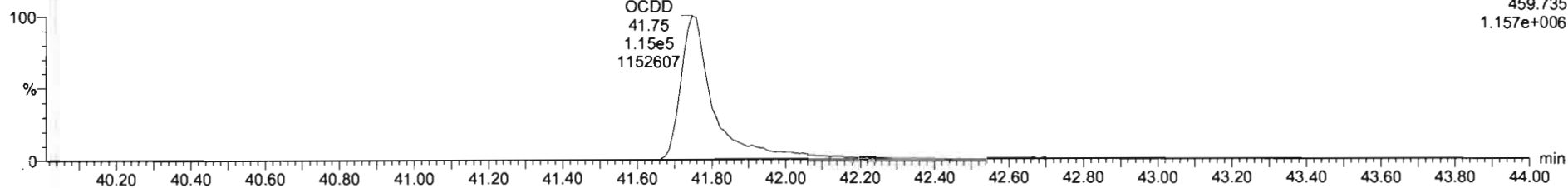
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**OCDD**

200618R1\_1

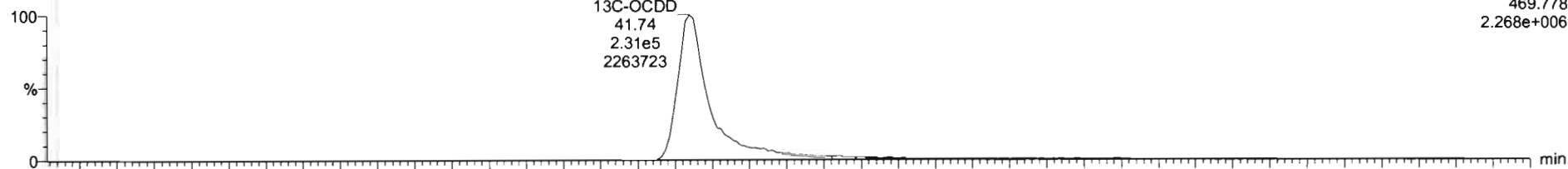


200618R1\_1

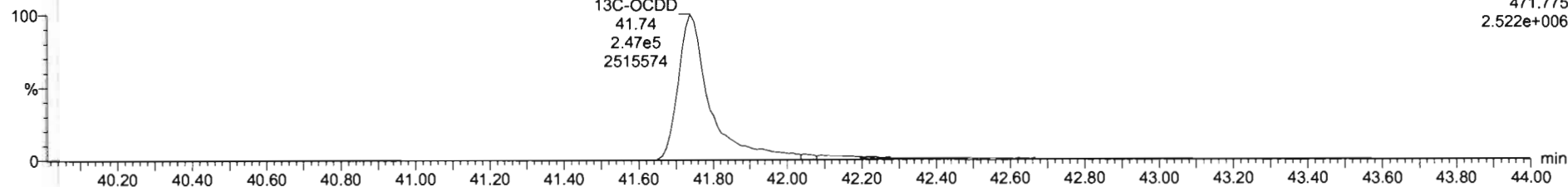


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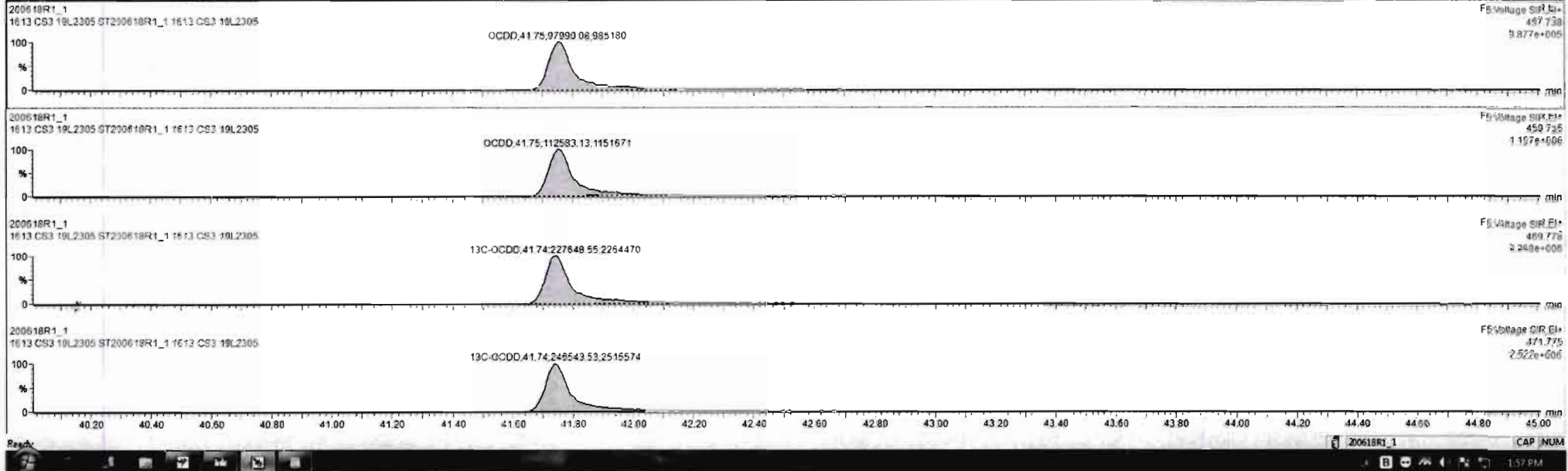
200618R1\_1



200618R1\_1



#	Name	Resp	S Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	5.35e4	6.03e5	0.77	0.75	NO	0.8853	25.50	25.48	NO	1.001	1.001	9.99	99.9	NO
2	1,2,3,7,8-PeCDD	1.92e5	4.13e5	0.63	0.61	NO	0.9051	31.47	31.45	NO	1.001	1.000	51.3	103	NO
3	1,2,3,4,7,8-HxCDD	1.47e5	2.82e5	1.24	1.32	NO	1.9324	34.84	34.84	NO	1.000	1.000	50.4	101	NO
4	1,2,3,6,7,8-HxCDD	1.99e5	4.48e5	1.24	1.18	NO	0.8923	34.92	34.83	NO	1.000	1.000	49.8	99.7	NO
5	1,2,3,7,8,9-HxCDD	1.96e5	3.73e5	1.24	1.21	NO	0.8659	35.22	35.22	NO	1.000	1.000	50.2	100	NO
6	1,2,3,4,6,7,8-HpCDD	1.13e5	2.82e5	1.04	1.03	NO	0.8639	38.76	38.77	NO	1.000	1.001	50.1	100	NO
7	OCDD	2.11e5	4.74e5	0.88	0.87	NO	0.9136	41.74	41.75	NO	1.000	1.000	97.2	97.2	NO
8	2,3,7,8-TCDF	5.76e4	8.25e5	0.77	0.75	NO	0.7510	25.60	25.59	NO	1.001	1.001	9.32	93.2	NO
9	1,2,3,7,8-PeCDF	2.90e5	6.36e5	1.55	1.53	NO	0.8925	30.17	30.17	NO	1.001	1.001	51.1	102	NO
10	2,3,4,7,8-PeCDF	2.87e5	6.10e5	1.55	1.63	NO	0.9348	31.18	31.15	NO	1.001	1.000	50.4	101	NO
11	1,2,3,4,7,8-HxCDF	1.73e5	3.86e5	1.24	1.22	NO	0.8845	33.94	33.96	NO	1.000	1.001	50.5	101	NO
12	1,2,3,6,7,8-HxCDF	2.16e5	5.05e5	1.24	1.22	NO	0.8892	34.08	34.08	NO	1.000	1.000	48.2	96.4	NO
13	2,3,4,6,7,8-HxCDF	1.91e5	4.23e5	1.24	1.19	NO	0.9341	34.69	34.67	NO	1.001	1.000	48.2	96.5	NO
14	1,2,3,7,8,9-HxCDF	1.35e5	3.33e5	1.24	1.17	NO	0.8707	35.57	35.58	NO	1.000	1.000	46.7	93.4	NO
15	1,2,3,4,6,7,8-HpCDF	1.31e5	3.06e5	1.04	0.95	NO	0.8734	37.35	37.35	NO	1.001	1.001	48.9	97.8	NO
16	1,2,3,4,7,8,9-HpCDF	9.75e4	1.92e5	1.04	1.00	NO	1.0128	39.30	39.31	NO	1.000	1.000	50.2	100	NO
17	OCDF	2.04e5	5.41e5	0.89	0.89	NO	0.8065	41.93	41.94	NO	1.000	1.000	92.5	92.5	NO
18	13C-2,3,7,8-TCDD	6.03e5	5.25e5	0.77	0.80	NO	1.1563	26.49	26.47	NO	1.025	1.026	99.3	99.3	NO
19	13C-1,2,3,7,8-PeCDD	4.13e5	5.25e5	0.63	0.63	NO	0.8490	31.67	31.45	NO	1.227	1.219	92.6	92.6	NO
20	13C-1,2,3,4,7,8-HxCDD	2.82e5	4.16e5	1.24	1.29	NO	0.7790	34.82	34.83	NO	1.014	1.014	87.1	87.1	NO
21	13C-1,2,3,6,7,8-HxCDD	4.48e5	4.16e5	1.24	1.29	NO	1.0167	34.93	34.92	NO	1.017	1.017	106	106	NO





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Printed: Thursday, June 18, 2020 13:54:22 Pacific Daylight Time

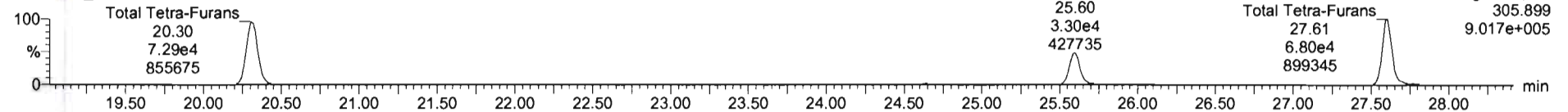
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**2,3,7,8-TCDF**

200618R1\_1

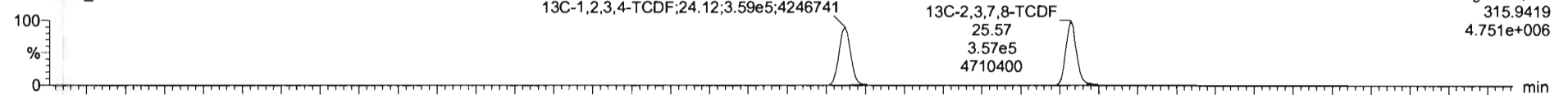


200618R1\_1

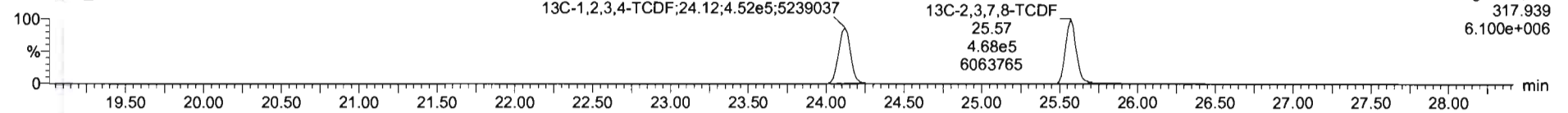


**13C-2,3,7,8-TCDF**

200618R1\_1

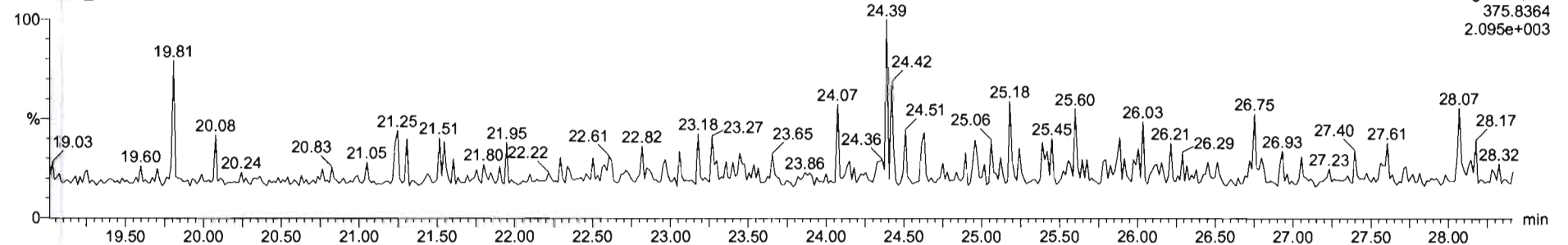


200618R1\_1



**DPE1**

200618R1\_1



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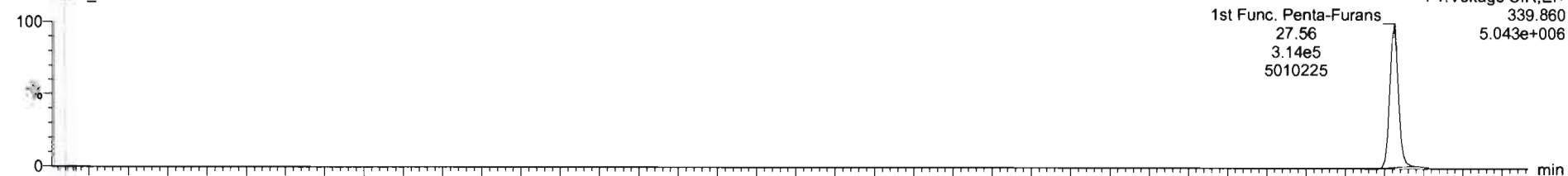
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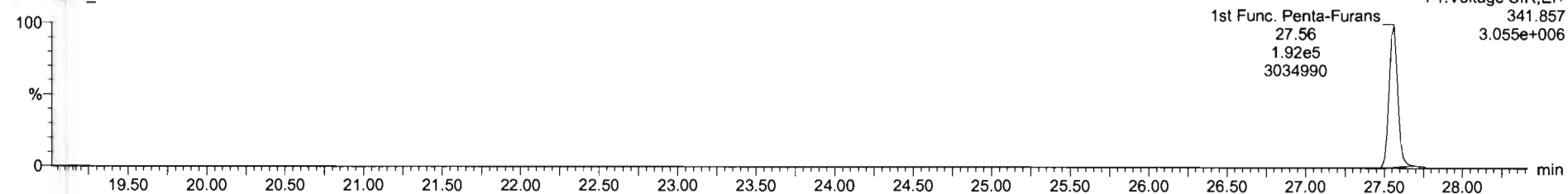
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1st Func. Penta-Furans

200618R1\_1

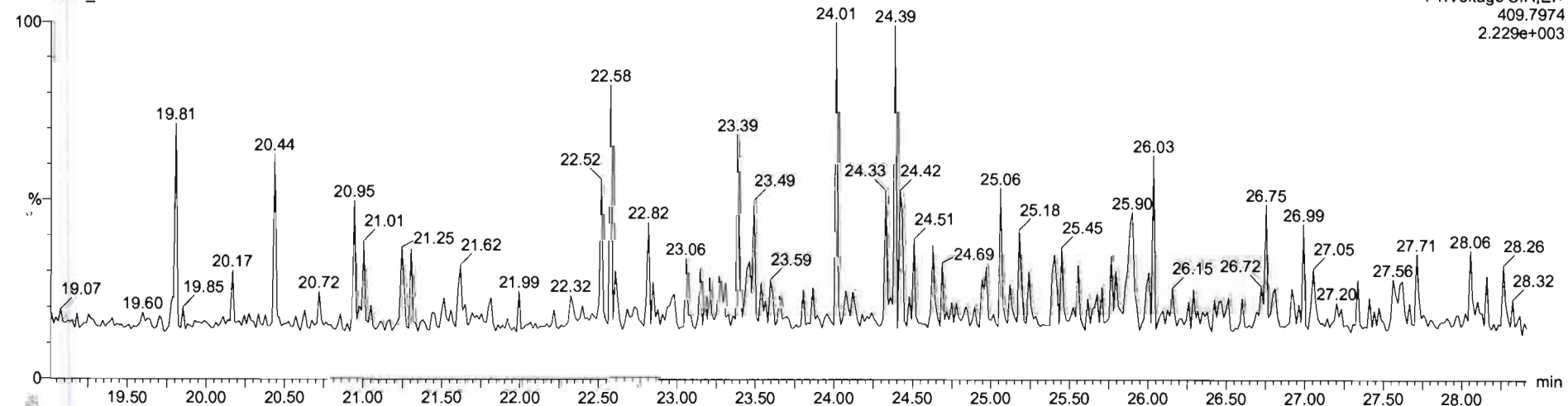


200618R1\_1



DPE6

200618R1\_1

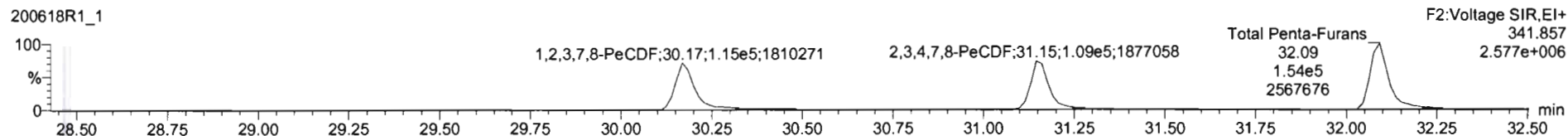
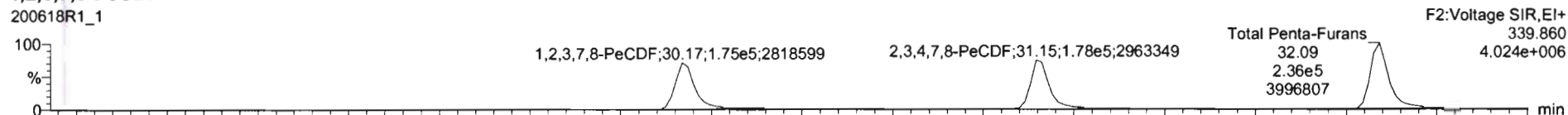


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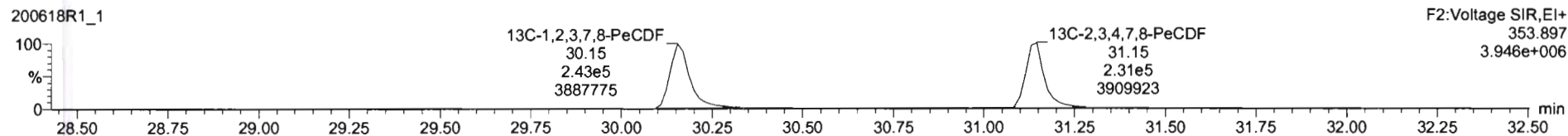
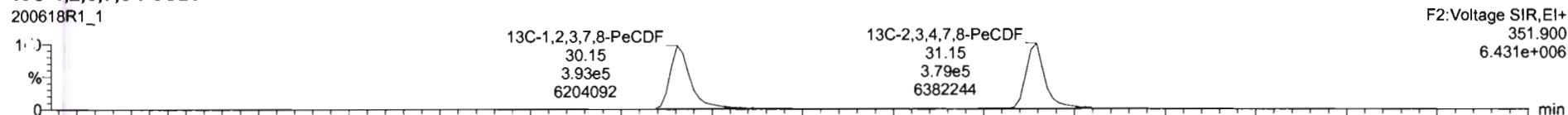
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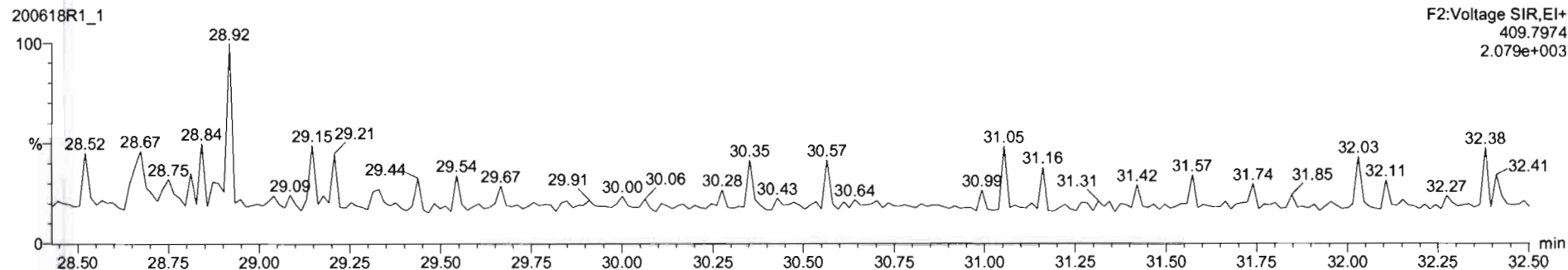
**1,2,3,7,8-PeCDF**



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



**DPE2**



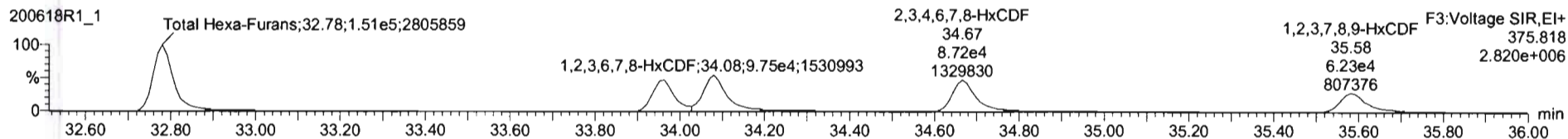
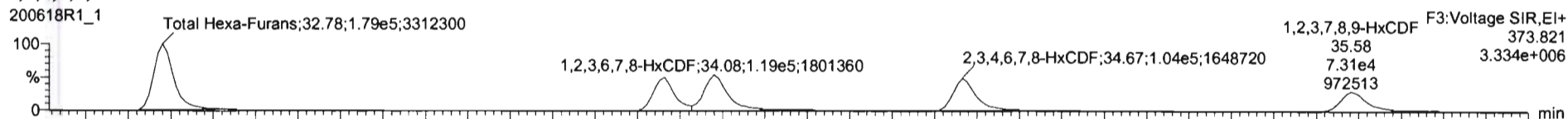
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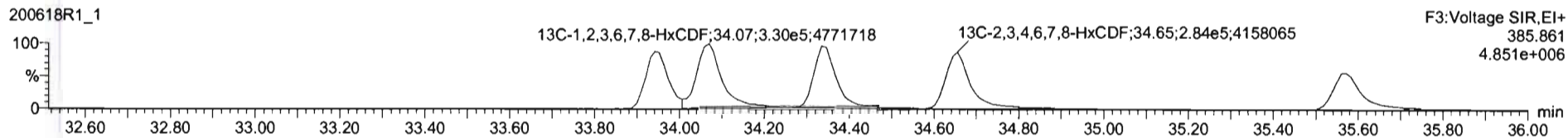
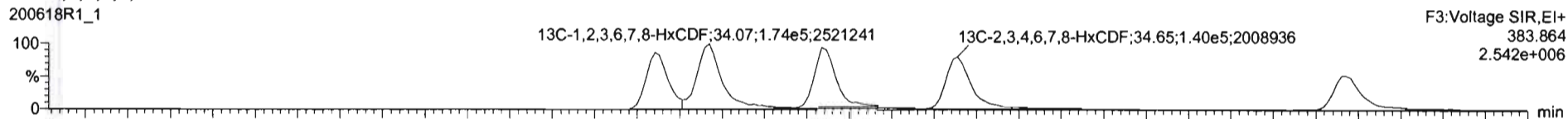
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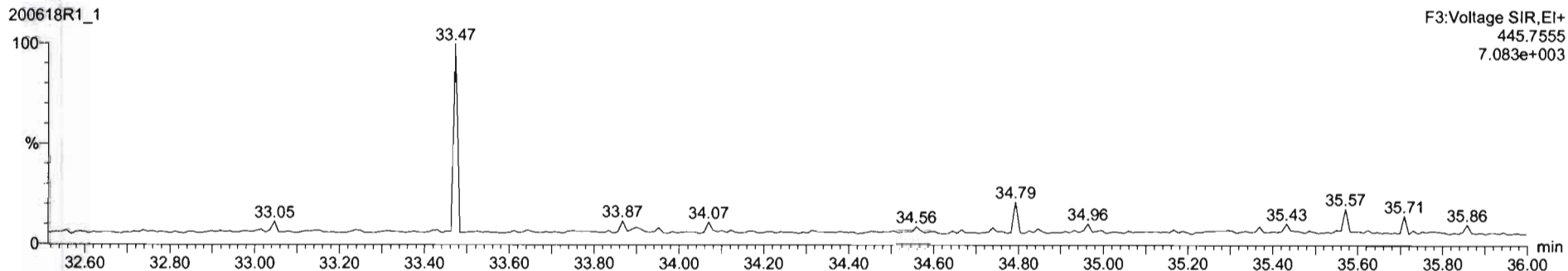
1,2,3,4,7,8-HxCDF



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



D-E3

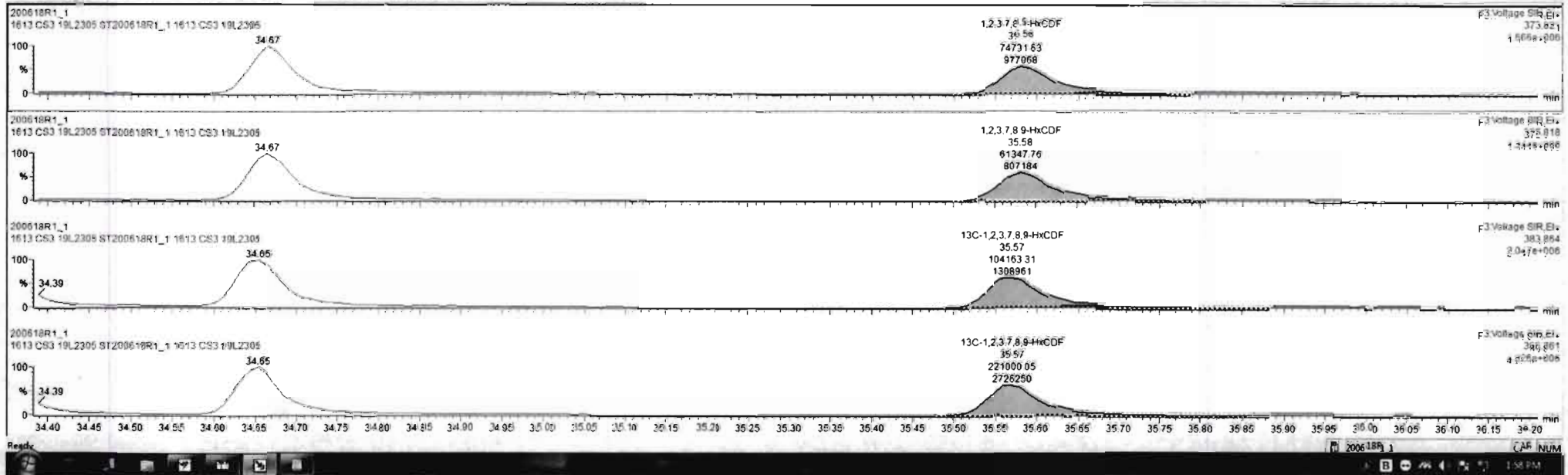


TargetLynx - 200618R1\_1.qld - [Chromatogram]

File Edit View Display Processing Window Help

200618R1\_1 - ST200618R1\_1 1613 CS3 19L2305 1613 CS3 19L2305

#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	5.35e4	6.03e5	0.77	0.75	NO	0.8883	26.50	26.48	NO	1.001	1.001	9.99	99.9	NO
2	1,2,3,7,8-PeCDD	1.92e5	4.13e5	0.63	0.61	NO	0.9091	31.47	31.45	NO	1.001	1.000	51.3	103	NO
3	1,2,3,4,7,8-HxCDD	1.47e5	2.82e5	1.24	1.32	NO	1.0334	34.84	34.84	NO	1.000	1.000	50.4	101	NO
4	1,2,3,6,7,8-HxCDD	1.99e5	4.48e5	1.24	1.18	NO	0.8923	34.92	34.93	NO	1.000	1.000	49.8	99.7	NO
5	1,2,3,7,8,9-HxCDD	1.85e5	3.73e5	1.24	1.21	NO	0.8889	35.22	35.22	NO	1.000	1.000	50.2	100	NO
6	1,2,3,4,6,7,8-HpCDD	1.13e5	2.82e5	1.04	1.03	NO	0.8639	38.76	38.77	NO	1.000	1.001	50.1	100	NO
7	OCDD	2.11e5	4.74e5	0.89	0.87	NO	0.9138	41.74	41.75	NO	1.000	1.000	97.2	97.2	NO
8	2,3,7,8-TCDF	5.78e4	8.25e5	0.77	0.75	NO	0.7510	25.60	25.59	NO	1.001	1.001	9.32	93.2	NO
9	1,2,3,7,8-PeCDF	2.90e5	6.36e5	1.55	1.53	NO	0.8925	39.17	39.17	NO	1.001	1.001	51.1	102	NO
10	2,3,4,7,8-PeCDF	2.87e5	5.10e5	1.55	1.63	NO	0.9348	31.18	31.15	NO	1.001	1.000	50.4	101	NO
11	1,2,3,4,7,8-HxCDF	1.73e5	3.88e5	1.24	1.22	NO	0.8845	33.94	33.96	NO	1.000	1.001	50.8	101	NO
12	1,2,3,6,7,8-HxCDF	2.16e5	5.05e5	1.24	1.22	NO	0.8892	34.08	34.08	NO	1.000	1.000	48.2	96.4	NO
13	2,3,4,6,7,8-HxCDF	1.91e5	4.23e5	1.24	1.19	NO	0.9341	34.69	34.67	NO	1.001	1.000	48.2	96.5	NO
14	1,2,3,7,8,9-HxCDF	1.36e5	3.25e5	1.24	1.22	NO	0.8707	35.57	35.58	NO	1.000	1.000	48.1	96.1	NO
15	1,2,3,4,6,7,8-HpCDF	1.31e5	3.06e5	1.04	0.95	NO	0.8734	37.38	37.36	NO	1.001	1.001	48.9	97.8	NO
16	1,2,3,4,7,8,9-HpCDF	9.75e4	1.92e5	1.04	1.00	NO	1.0128	39.30	39.31	NO	1.000	1.000	50.2	100	NO
17	OCDF	2.04e5	5.41e5	0.99	0.99	NO	0.8065	41.93	41.94	NO	1.000	1.000	93.5	93.5	NO
18	13C-2,3,7,8-TCDD	6.03e5	5.25e5	0.77	0.80	NO	1.1583	26.49	26.47	NO	1.026	1.026	99.3	99.3	NO
19	13C-1,2,3,7,8-PeCDD	4.13e5	5.25e5	0.63	0.63	NO	0.8490	31.67	31.45	NO	1.227	1.219	92.6	92.8	NO
20	13C-1,2,3,4,7,8-HxCDD	2.82e5	4.16e5	1.24	1.29	NO	0.7790	34.82	34.83	NO	1.014	1.014	87.1	87.1	NO
21	13C-1,2,3,6,7,8-HxCDD	4.48e5	4.16e5	1.24	1.29	NO	1.0167	34.93	34.92	NO	1.017	1.017	106	106	NO





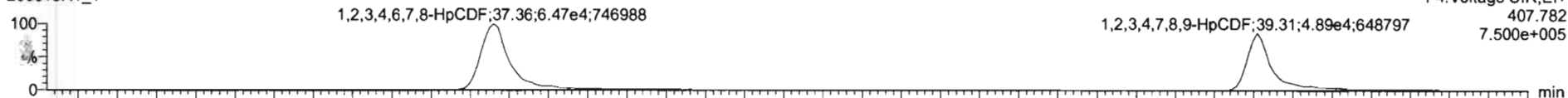
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Printed: Thursday, June 18, 2020 13:54:22 Pacific Daylight Time

Name: 200618R1\_1, Date: 18-Jun-2020, Time: 13:05:09, ID: ST200618R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

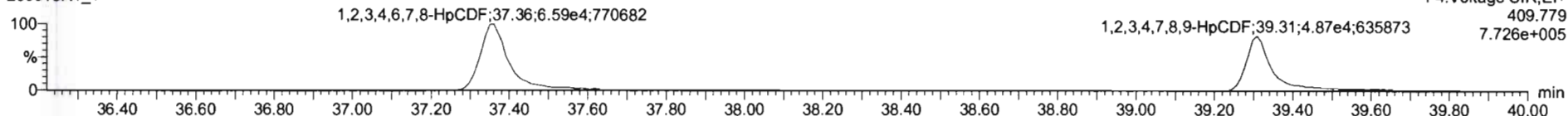
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200618R1\_1



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7.500e+005

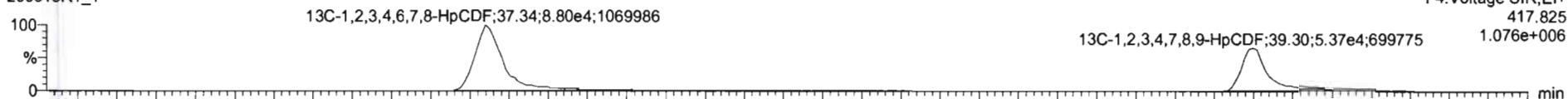
200618R1\_1



F4:Voltage SIR,EI+  
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7.726e+005

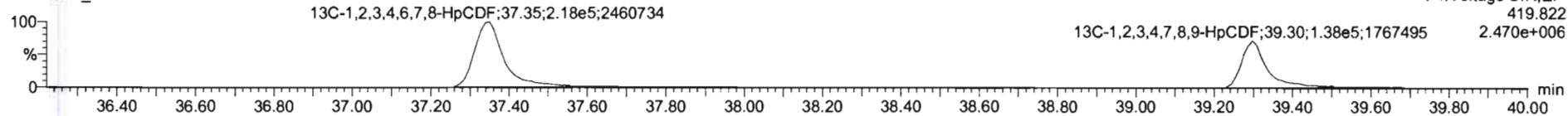
**13C-1,2,3,4,6,7,8-HpCDF**

200618R1\_1



F4:Voltage SIR,EI+  
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1.076e+006

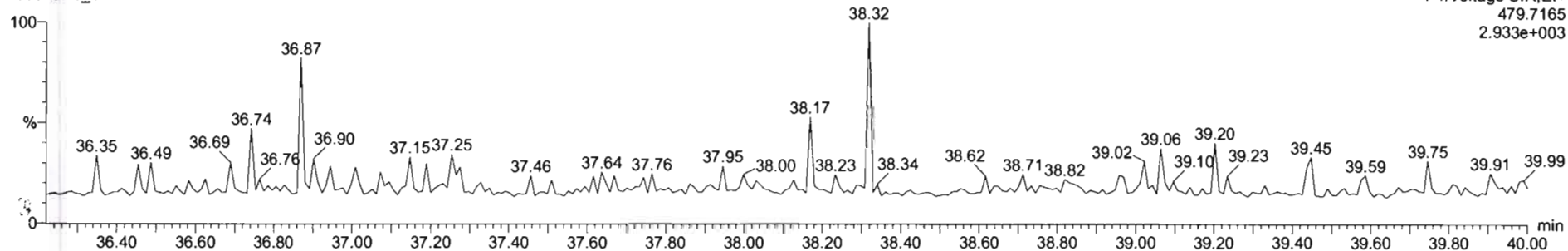
200618R1\_1



F4:Voltage SIR,EI+  
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2.470e+006

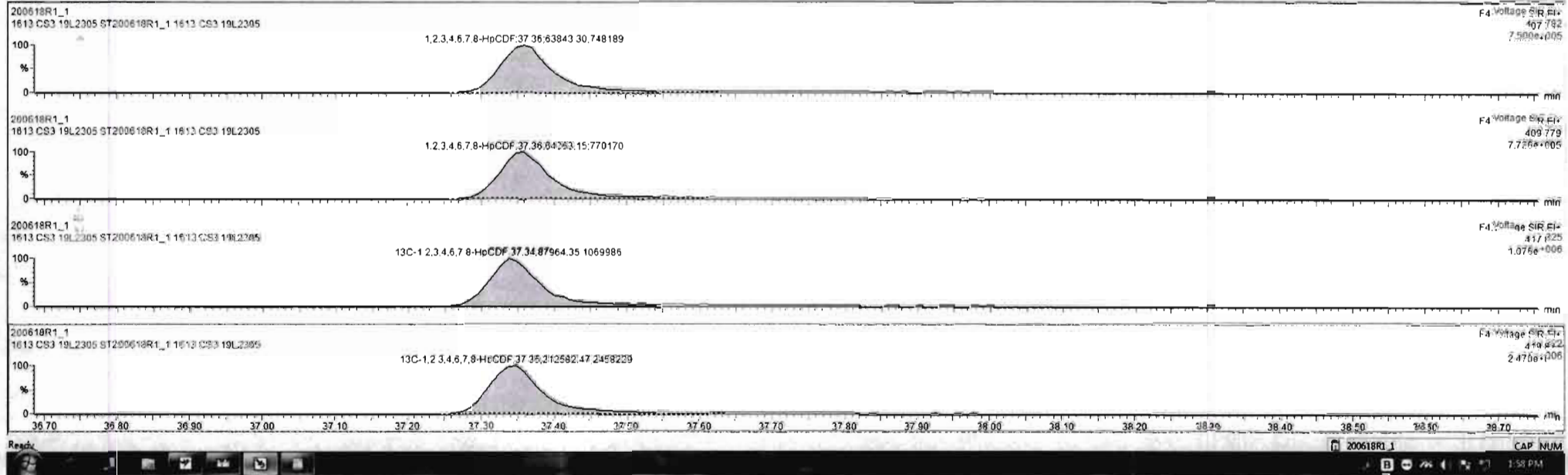
**DPE4**

200618R1\_1

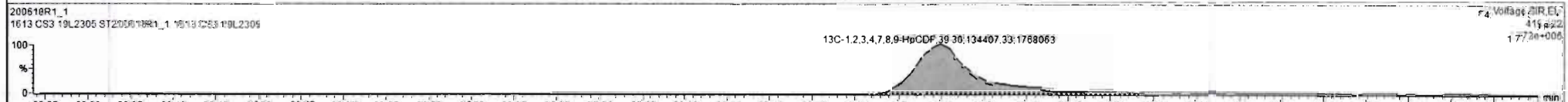
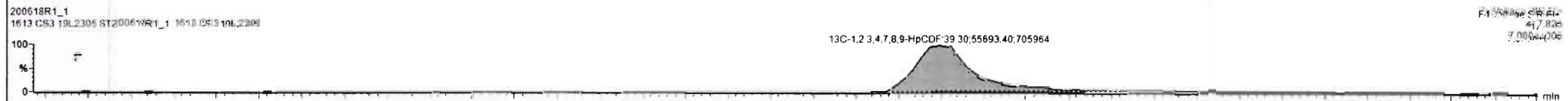
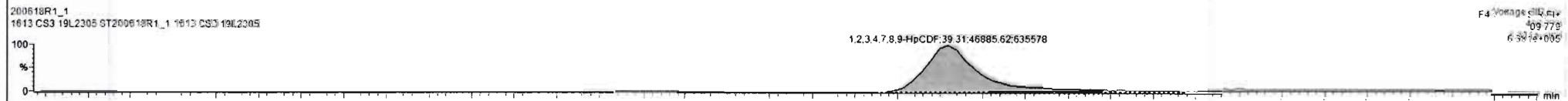


F4:Voltage SIR,EI+  
479.7165  
2.933e+003

#	Name	Resp	IS Resp	Pred RA	RA	N/A	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	2,3,7,8-TCDD	5.35e4	6.03e5	0.77	0.75	NO	0.8883	26.50	26.46	NO	1.001	1.001	9.99	99.9	NO
2	1,2,3,7,8-PeCDD	1.92e5	4.13e5	0.63	0.61	NO	0.9081	31.47	31.45	NO	1.001	1.000	51.3	103	NO
3	1,2,3,4,7,8-HxCDD	1.47e5	2.82e5	1.24	1.32	NO	1.0234	34.84	34.84	NO	1.000	1.000	50.4	101	NO
4	1,2,3,6,7,8-HxCDD	1.99e5	4.40e5	1.24	1.18	NO	0.8923	34.92	34.93	NO	1.000	1.000	49.8	99.7	NO
5	1,2,3,7,8,9-HxCDD	1.96e5	3.73e5	1.24	1.21	NO	0.8869	35.22	35.22	NO	1.000	1.000	50.2	100	NO
6	1,2,3,4,6,7,8-HpCDD	1.13e5	2.62e5	1.04	1.03	NO	0.8639	38.76	38.77	NO	1.000	1.001	50.1	100	NO
7	OCDD	2.11e5	4.74e5	0.89	0.87	NO	0.9136	41.74	41.75	NO	1.000	1.000	97.2	97.2	NO
8	2,3,7,8-TCDF	5.78e4	8.25e5	0.77	0.75	NO	0.7510	25.60	25.59	NO	1.001	1.001	9.32	93.2	NO
9	1,2,3,7,8-PeCDF	2.90e5	6.36e5	1.55	1.53	NO	0.8925	20.17	20.17	NO	1.001	1.001	51.1	102	NO
10	2,3,4,7,8-PeCDF	2.87e5	6.10e5	1.55	1.63	NO	0.9348	31.18	31.15	NO	1.001	1.000	50.4	101	NO
11	1,2,3,4,7,8-HxCDF	1.73e5	3.88e5	1.24	1.22	NO	0.8845	33.94	33.96	NO	1.000	1.001	50.5	101	NO
12	1,2,3,6,7,8-HxCDF	2.16e5	5.05e5	1.24	1.22	NO	0.8892	34.08	34.08	NO	1.000	1.000	48.2	96.4	NO
13	1,2,3,4,6,7,8-HxCDF	1.91e5	4.23e5	1.24	1.19	NO	0.9341	34.69	34.67	NO	1.001	1.000	48.2	96.5	NO
14	1,2,3,7,8,9-HxCDF	1.36e5	3.25e5	1.24	1.22	NO	0.8707	35.57	35.58	NO	1.000	1.000	48.1	96.1	NO
15	1,2,3,4,6,7,8-HpCDF	1.28e5	3.01e5	1.94	0.99	NO	0.8734	37.38	37.38	NO	1.001	1.001	48.8	97.7	NO
16	1,2,3,4,7,8,9-HpCDF	9.75e4	1.92e5	1.04	1.00	NO	1.0123	39.30	39.31	NO	1.000	1.000	50.2	100	NO
17	OCDF	2.04e5	5.41e5	0.89	0.89	NO	0.8055	41.93	41.94	NO	1.000	1.000	93.5	93.5	NO
18	13C-2,3,7,8-TCDD	6.03e5	5.25e5	0.77	0.80	NO	1.1563	26.49	26.47	NO	1.026	1.026	99.3	99.3	NO
19	13C-1,2,3,7,8-PeCDD	4.13e5	5.25e5	0.63	0.63	NO	0.8490	31.67	31.45	NO	1.227	1.219	92.6	92.6	NO
20	13C-1,2,3,4,7,8-HxCDD	2.82e5	4.16e5	1.24	1.29	NO	0.7790	34.82	34.83	NO	1.014	1.014	87.1	87.1	NO
21	13C-1,2,3,6,7,8-HxCDD	4.40e5	4.16e5	1.24	1.29	NO	1.0167	34.93	34.92	NO	1.017	1.017	106	106	NO



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	5.35e4	6.03e5	0.77	0.75	NO	0.8853	26.50	26.48	NO	1.001	1.001	9.99	99.9	NO
2	1,3,7,8-PeCDD	1.92e5	4.13e5	0.63	0.61	NO	0.9081	31.47	31.45	NO	1.001	1.000	51.3	103	NO
3	1,2,3,4,7,8-HxCDD	1.47e5	2.82e5	1.24	1.32	NO	1.0234	34.84	34.84	NO	1.000	1.000	50.4	101	NO
4	1,2,3,6,7,8-HxCDD	1.99e5	4.48e5	1.24	1.18	NO	0.8923	34.92	34.93	NO	1.000	1.000	48.8	99.7	NO
5	1,2,3,7,8,9-HxCDD	1.86e5	3.73e5	1.24	1.21	NO	0.8869	35.22	35.22	NO	1.000	1.000	50.2	100	NO
6	1,2,3,4,6,7,8-HpCDD	1.13e5	2.62e5	1.04	1.03	NO	0.8639	36.76	36.77	NO	1.000	1.001	50.1	100	NO
7	OCDD	2.11e5	4.74e5	0.89	0.87	NO	0.9126	41.74	41.75	NO	1.000	1.000	97.2	97.2	NO
8	2,3,7,8-TCDF	5.76e4	8.25e5	0.77	0.75	NO	0.7510	25.60	25.59	NO	1.001	1.001	9.32	93.2	NO
9	1,2,3,7,8-PeCDF	2.90e5	6.36e5	1.55	1.53	NO	0.8925	30.17	30.17	NO	1.001	1.001	51.1	102	NO
10	2,3,4,7,8-PeCDF	2.87e5	6.10e5	1.55	1.63	NO	0.9348	31.18	31.15	NO	1.001	1.000	50.4	101	NO
11	1,2,3,4,7,8-HxCDF	1.73e5	3.86e5	1.24	1.22	NO	0.8845	33.94	33.96	NO	1.000	1.001	50.5	101	NO
12	1,2,3,6,7,8-HxCDF	2.16e5	5.05e5	1.24	1.22	NO	0.8892	34.08	34.08	NO	1.000	1.000	48.2	96.4	NO
13	2,3,4,6,7,8-HxCDF	1.91e5	4.23e5	1.24	1.19	NO	0.9341	34.69	34.67	NO	1.001	1.000	48.2	96.5	NO
14	1,2,3,7,8,9-HxCDF	1.36e5	3.25e5	1.24	1.22	NO	0.8707	35.57	35.58	NO	1.000	1.000	48.1	96.1	NO
15	1,2,3,4,6,7,8-HpCDF	1.28e5	3.01e5	1.04	0.99	NO	0.8734	37.38	37.38	NO	1.001	1.001	48.8	97.7	NO
16	1,2,3,4,7,8,9-HpCDF	9.35e4	1.90e5	1.04	1.00	NO	1.0125	39.30	39.31	NO	1.000	1.000	48.7	97.4	NO
17	OCDF	2.04e5	5.41e5	0.89	0.89	NO	0.8065	41.83	41.84	NO	1.005	1.000	93.5	93.5	NO
18	13C-2,3,7,8-TCDD	6.03e5	5.25e5	0.77	0.80	NO	1.1563	26.49	26.47	NO	1.025	1.026	99.3	99.3	NO
19	13C-1,2,3,7,8-PeCDD	4.13e5	5.25e5	0.63	0.63	NO	0.9490	31.67	31.45	NO	1.227	1.219	92.6	92.6	NO
20	13C-1,2,3,4,7,8-HxCDD	2.82e5	4.16e5	1.24	1.29	NO	0.7790	34.82	34.83	NO	1.014	1.014	67.1	67.1	NO
21	13C-1,2,3,6,7,8-HxCDD	4.48e5	4.16e5	1.24	1.29	NO	1.0167	34.93	34.92	NO	1.017	1.017	106	106	NO



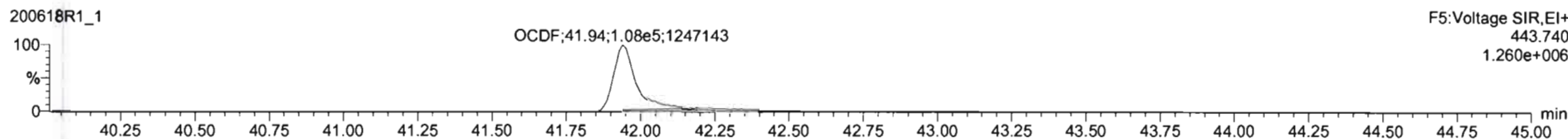
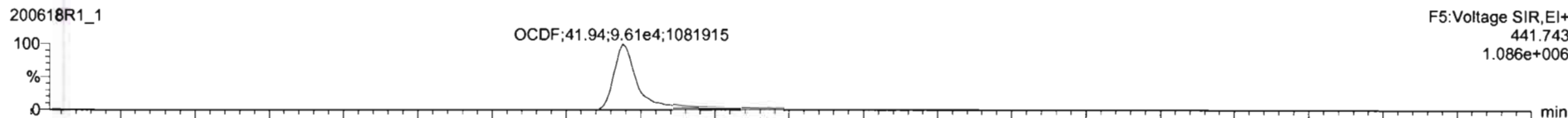


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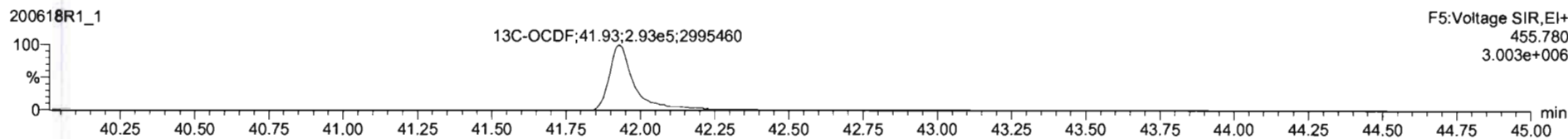
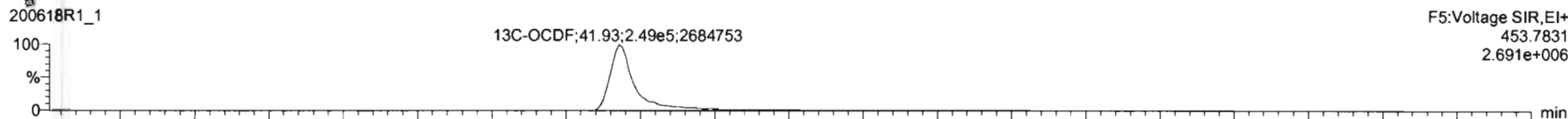
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Printed: Thursday, June 18, 2020 13:54:22 Pacific Daylight Time

Name: 200618R1\_1, Date: 18-Jun-2020, Time: 13:05:09, ID: ST200618R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

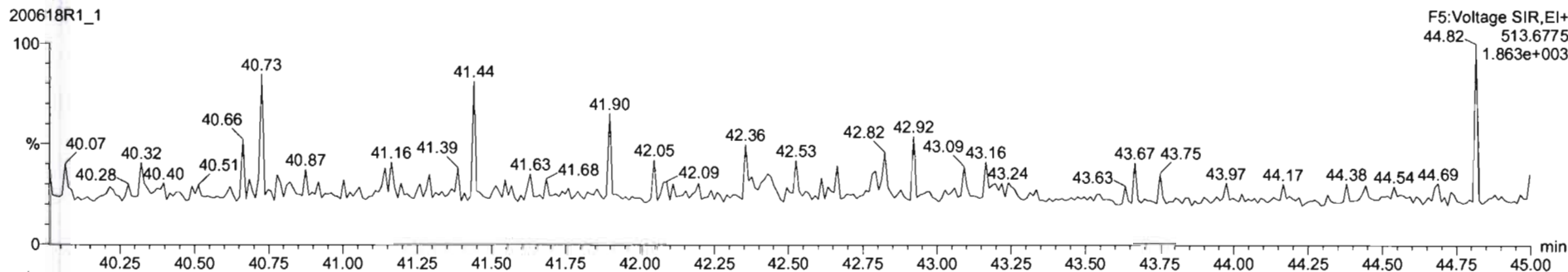
**OCDF**



**<sup>13</sup>C-OCDF**



**DPE5**

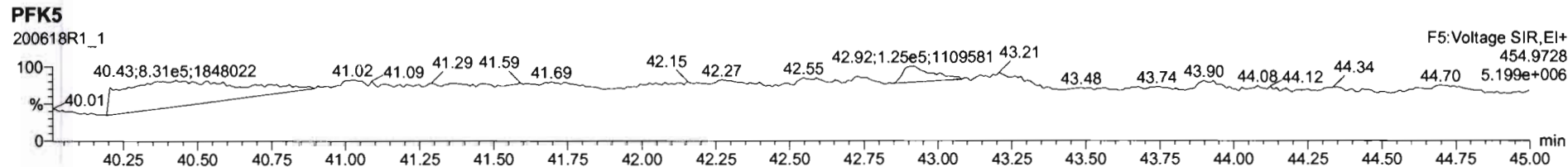
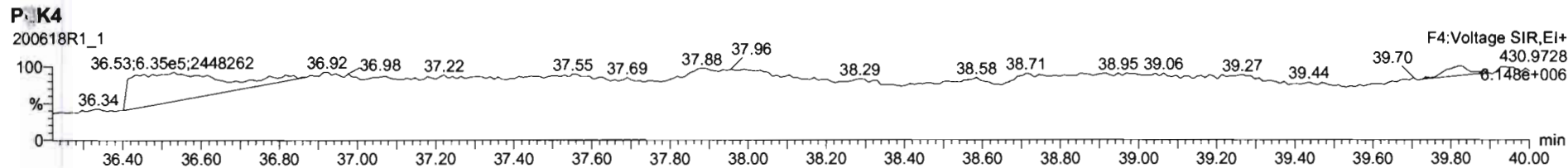
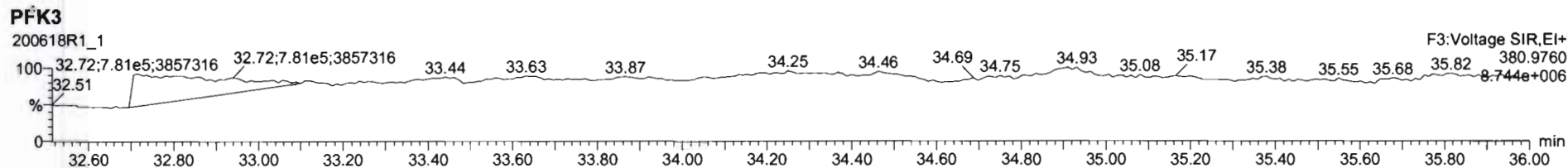
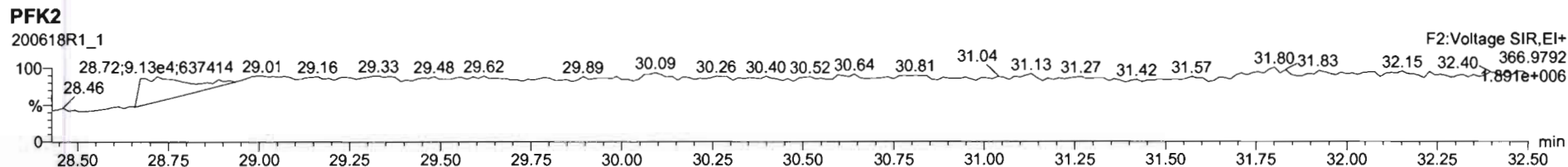
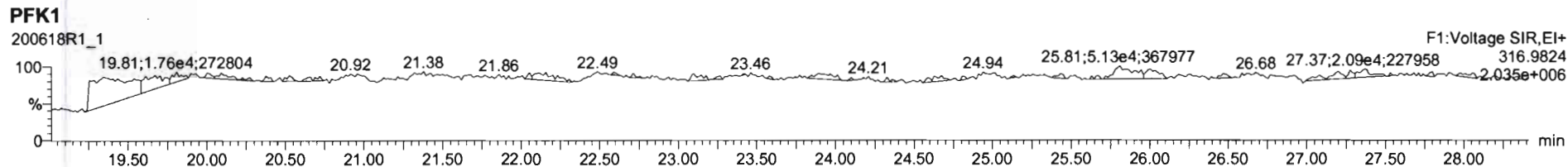


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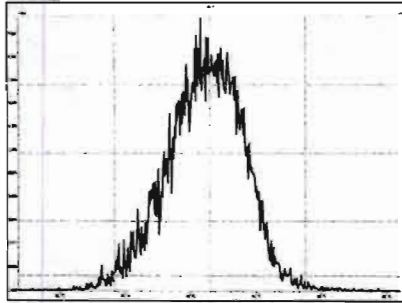
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Name: 200618R1\_1, Date: 18-Jun-2020, Time: 13:05:09, ID: ST200618R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

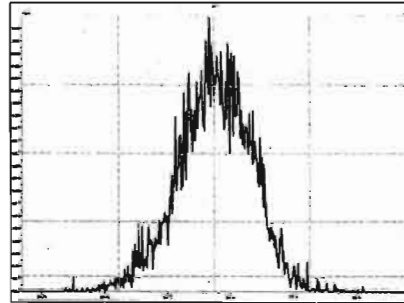


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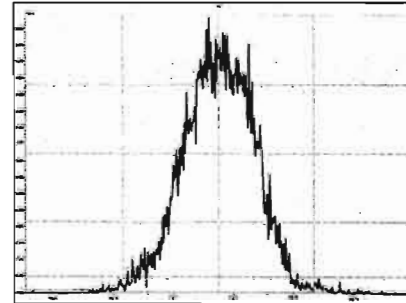
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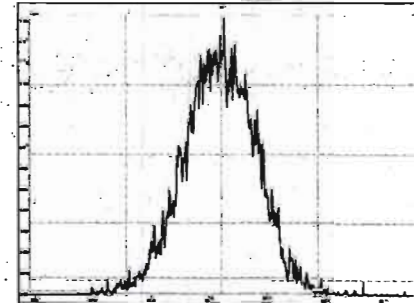
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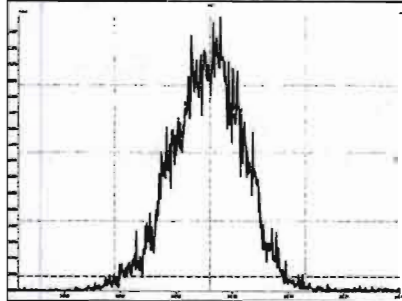
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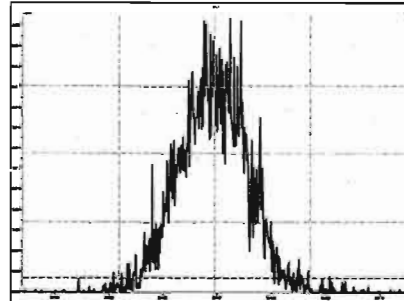
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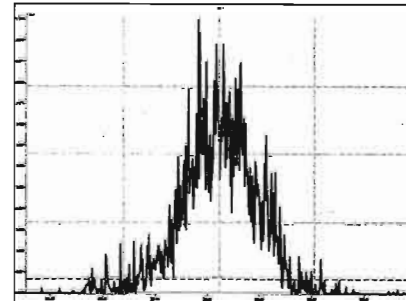
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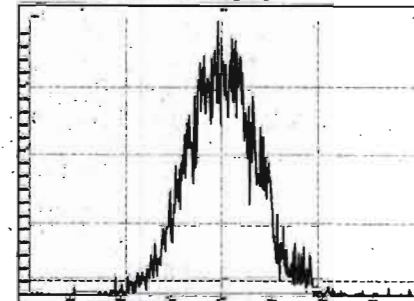
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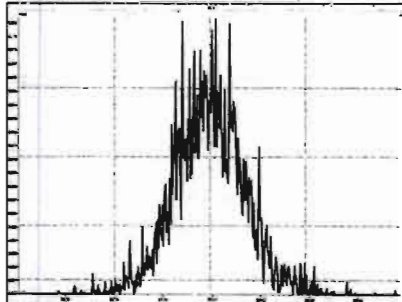
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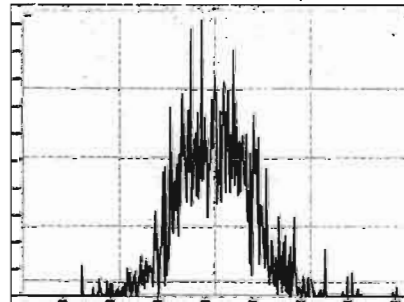
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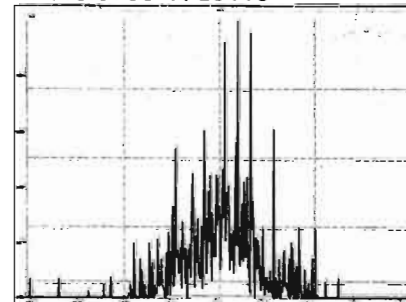
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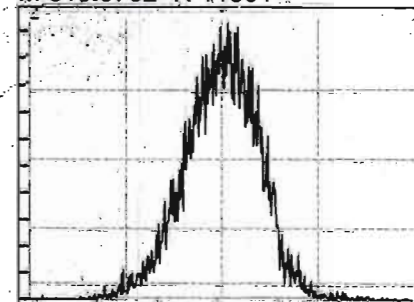
M 404.9760 R 16046



M 416.9760 R 26113



M 318.9792 R 11601

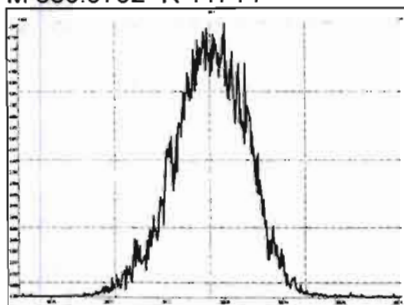


Resolution Check Report

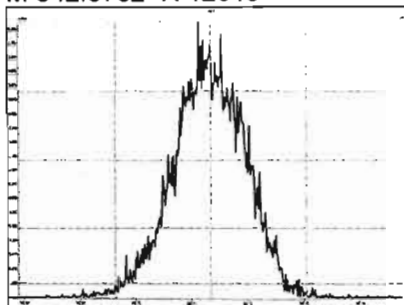
MassLynx 4.1 SCN815

Printed: Friday, June 19, 2020 00:49:09 Pacific Daylight Time

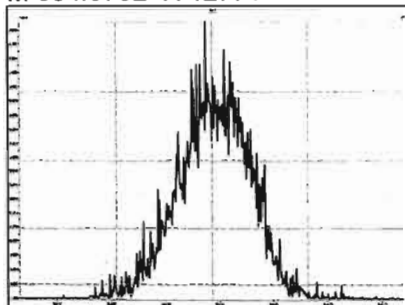
M 330.9792 R 11714



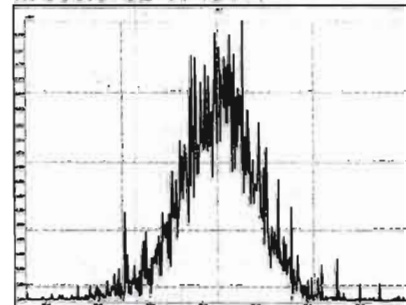
M 342.9792 R 12019



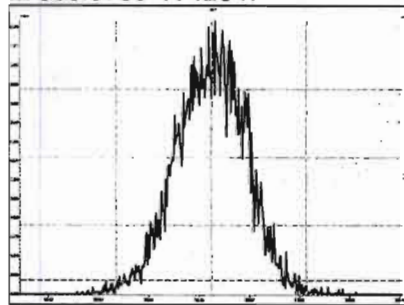
M 354.9792 R 12771



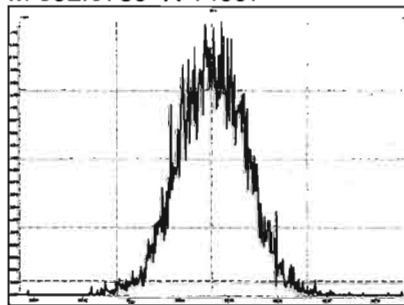
M 366.9792 R 13441



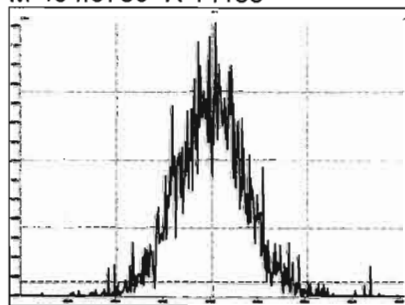
M 380.9760 R 12347



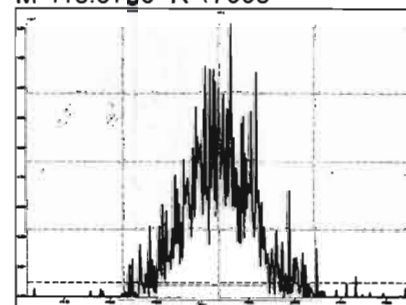
M 392.9760 R 14097



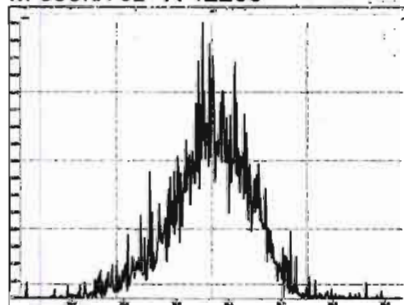
M 404.9760 R 14133



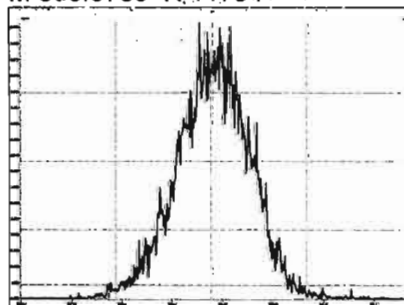
M 416.9760 R 17006



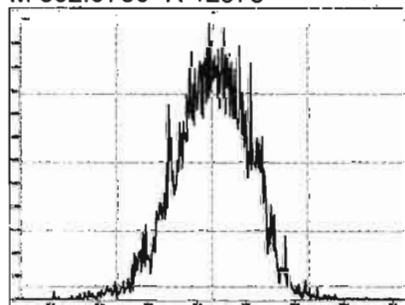
M 366.9792 R 12255



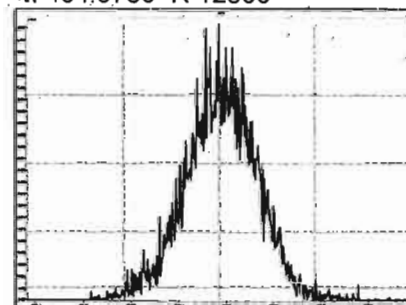
M 380.9760 R 11794



M 392.9760 R 12973



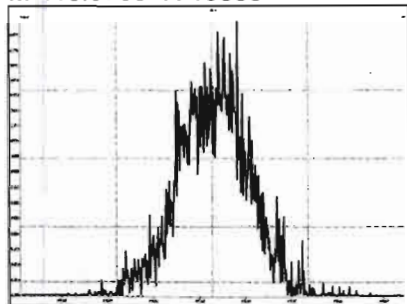
M 404.9760 R 12600



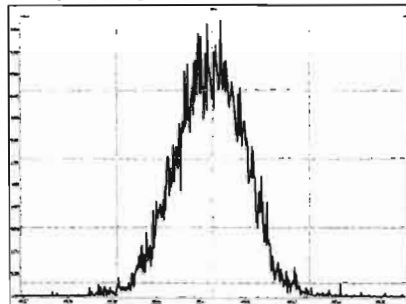


Printed: Friday, June 19, 2020 00:49:09 Pacific Daylight Time

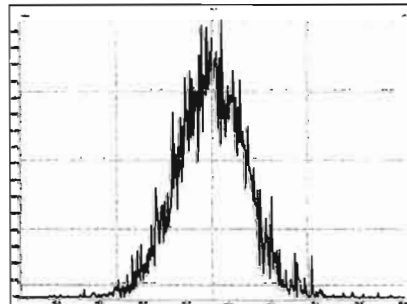
M 416.9760 R 13888



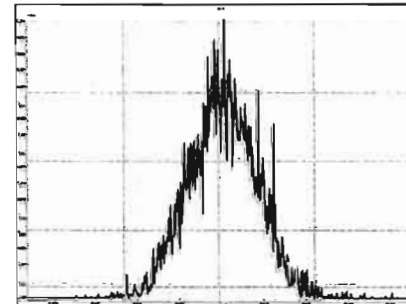
M 430.9728 R 12854



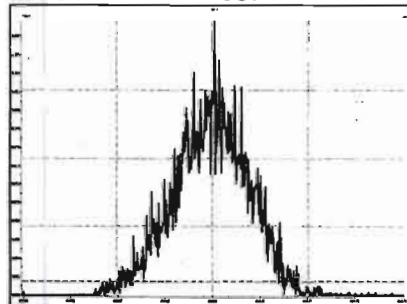
M 442.9728 R 12863



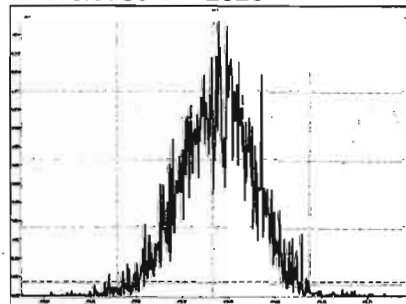
M 454.9728 R 12788



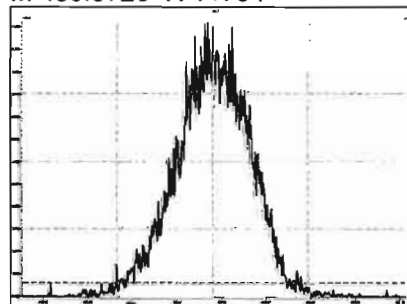
M 404.9760 R 12537



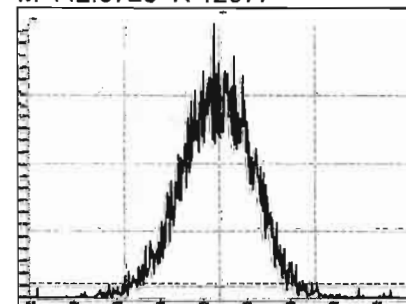
M 416.9760 R 12923



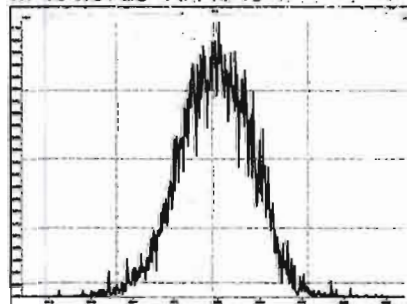
M 430.9728 R 11794



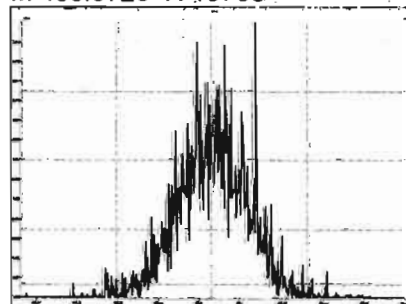
M 442.9728 R 12077



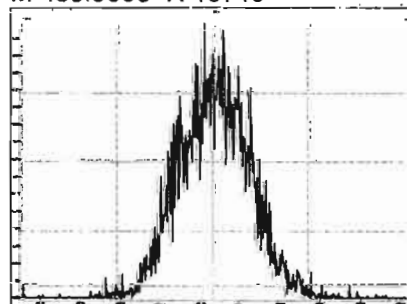
M 454.9728 R:11740



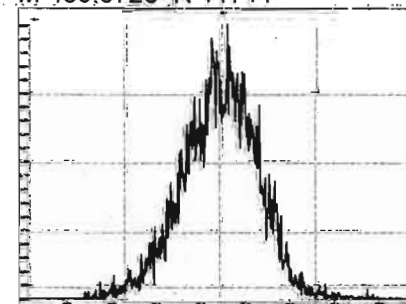
M 466.9728 R:15708



M 480.9696 R 13719

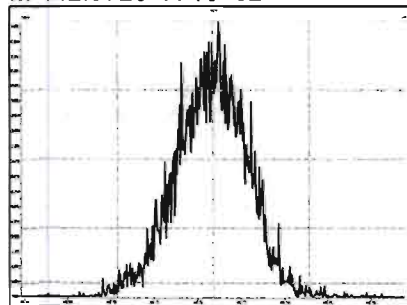


M 430.9728 R 11711

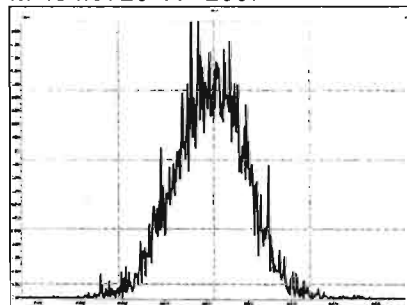


Printed: Friday, June 19, 2020 00:49:09 Pacific Daylight Time

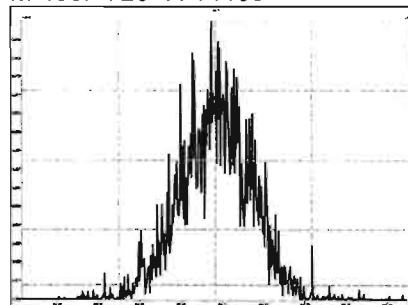
M 442.9728 R 13162



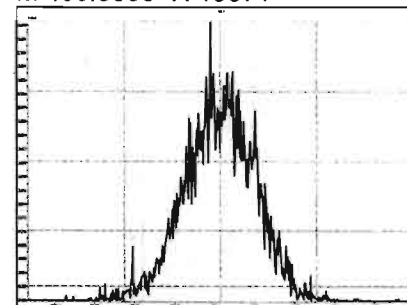
M 454.9728 R 12087



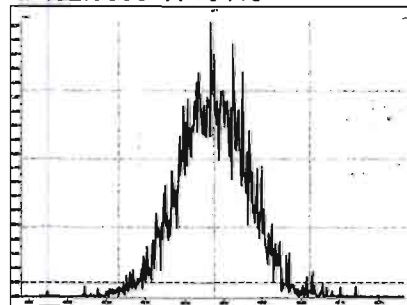
M 466.9728 R 14135



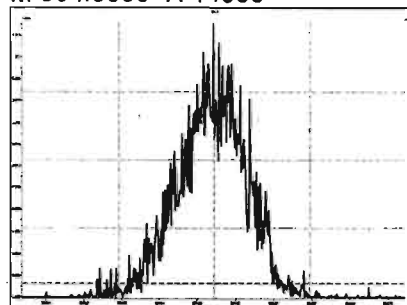
M 480.9696 R 13371



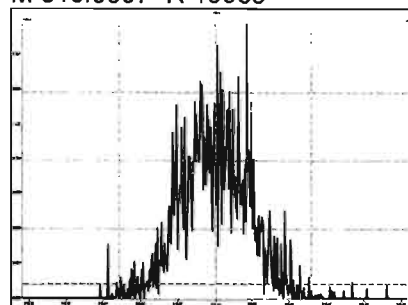
M 492.9696 R 13416



M 504.9696 R 14066



M 516.9697 R 16936





Dataset: U:\VG12.PRO\Results\200624R1\200624R1-1.qld

Last Altered: Wednesday, June 24, 2020 09:56:02 Pacific Daylight Time  
Printed: Wednesday, June 24, 2020 09:56:26 Pacific Daylight Time

*GRB 06/24/2020*

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 06/25/2020*

Name: 200624R1\_1, Date: 24-Jun-2020, Time: 09:01:15, ID: ST200624R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	8.01e4	9.28e5	0.78	NO	0.888	26.49	26.47	NO	1.001	1.001	9.7140	97.1	NO
2	2 1,2,3,7,8-PeCDD	3.20e5	7.49e5	0.61	NO	0.908	31.44	31.44	NO	1.001	1.000	47.091	94.2	NO
3	3 1,2,3,4,7,8-HxCDD	2.62e5	5.31e5	1.23	NO	1.03	34.81	34.83	NO	1.000	1.001	47.821	95.6	NO
4	4 1,2,3,6,7,8-HxCDD	2.97e5	6.81e5	1.26	NO	0.892	34.91	34.93	NO	1.000	1.001	48.874	97.7	NO
5	5 1,2,3,7,8,9-HxCDD	2.66e5	6.28e5	1.21	NO	0.887	35.21	35.21	NO	1.000	1.000	47.817	95.6	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.22e5	5.10e5	1.00	NO	0.864	38.75	38.76	NO	1.000	1.001	50.336	101	NO
7	7 OCDD	4.19e5	9.16e5	0.88	NO	0.914	41.73	41.74	NO	1.000	1.000	100.13	100	NO
8	8 2,3,7,8-TCDF	8.81e4	1.21e6	0.74	NO	0.751	25.58	25.59	NO	1.001	1.001	9.6997	97.0	NO
9	9 1,2,3,7,8-PeCDF	4.49e5	1.05e6	1.52	NO	0.893	30.16	30.15	NO	1.001	1.001	47.798	95.6	NO
10	10 2,3,4,7,8-PeCDF	4.58e5	1.02e6	1.55	NO	0.935	31.16	31.13	NO	1.001	1.000	47.898	95.8	NO
11	11 1,2,3,4,7,8-HxCDF	3.06e5	6.86e5	1.20	NO	0.884	33.93	33.95	NO	1.000	1.001	50.450	101	NO
12	12 1,2,3,6,7,8-HxCDF	3.53e5	7.85e5	1.20	NO	0.889	34.06	34.07	NO	1.000	1.001	50.531	101	NO
13	13 2,3,4,6,7,8-HxCDF	3.29e5	7.07e5	1.20	NO	0.934	34.68	34.65	NO	1.001	1.000	49.748	99.5	NO
14	14 1,2,3,7,8,9-HxCDF	2.65e5	5.89e5	1.20	NO	0.871	35.55	35.57	NO	1.000	1.001	51.667	103	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.44e5	5.27e5	1.01	NO	0.873	37.37	37.35	NO	1.001	1.001	52.897	106	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.96e5	3.68e5	1.02	NO	1.01	39.29	39.30	NO	1.000	1.000	52.586	105	NO
17	17 OCDF	4.10e5	1.05e6	0.84	NO	0.806	41.92	41.93	NO	1.000	1.000	96.866	96.9	NO
18	18 13C-2,3,7,8-TCDD	9.28e5	7.95e5	0.77	NO	1.16	26.48	26.45	NO	1.026	1.026	100.97	101	NO
19	19 13C-1,2,3,7,8-PeCDD	7.49e5	7.95e5	0.62	NO	0.849	31.66	31.42	NO	1.227	1.218	110.95	111	NO
20	20 13C-1,2,3,4,7,8-HxCDD	5.31e5	6.57e5	1.26	NO	0.779	34.81	34.80	NO	1.014	1.014	103.76	104	NO
21	21 13C-1,2,3,6,7,8-HxCDD	6.81e5	6.57e5	1.28	NO	1.02	34.92	34.91	NO	1.017	1.017	101.92	102	NO
22	22 13C-1,2,3,7,8,9-HxCDD	6.28e5	6.57e5	1.23	NO	0.903	35.19	35.20	NO	1.025	1.025	105.95	106	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.10e5	6.57e5	1.04	NO	0.689	38.71	38.73	NO	1.128	1.128	112.66	113	NO
24	24 13C-OCDD	9.16e5	6.57e5	0.89	NO	0.652	41.74	41.73	NO	1.216	1.216	213.84	107	NO
25	25 13C-2,3,7,8-TCDF	1.21e6	1.17e6	0.75	NO	1.06	25.52	25.56	NO	0.989	0.991	97.386	97.4	NO
26	26 13C-1,2,3,7,8-PeCDF	1.05e6	1.17e6	1.58	NO	0.838	30.04	30.14	NO	1.165	1.168	107.01	107	NO
27	27 13C-2,3,4,7,8-PeCDF	1.02e6	1.17e6	1.59	NO	0.817	30.99	31.13	NO	1.202	1.207	106.71	107	NO
28	28 13C-1,2,3,4,7,8-HxCDF	6.86e5	6.57e5	0.51	NO	1.01	33.94	33.93	NO	0.989	0.989	103.60	104	NO
29	29 13C-1,2,3,6,7,8-HxCDF	7.85e5	6.57e5	0.53	NO	1.17	34.06	34.05	NO	0.992	0.992	102.37	102	NO
30	30 13C-2,3,4,6,7,8-HxCDF	7.07e5	6.57e5	0.51	NO	1.02	34.64	34.64	NO	1.009	1.009	105.35	105	NO
31	31 13C-1,2,3,7,8,9-HxCDF	5.89e5	6.57e5	0.51	NO	0.860	35.54	35.55	NO	1.035	1.036	104.26	104	NO



Dataset: U:\VG12.PRO\Results\200624R1\200624R1-1.qld

Last Altered: Wednesday, June 24, 2020 09:56:02 Pacific Daylight Time  
Printed: Wednesday, June 24, 2020 09:56:26 Pacific Daylight Time

Name: 200624R1\_1, Date: 24-Jun-2020, Time: 09:01:15, ID: ST200624R1\_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	5.27e5	6.57e5	0.43	NO	0.774	37.28	37.33	NO	1.086	1.088	103.61	104	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.68e5	6.57e5	0.43	NO	0.521	39.31	39.29	NO	1.145	1.145	107.58	108	NO
34	34 13C-OCDF	1.05e6	6.57e5	0.86	NO	0.746	41.91	41.92	NO	1.221	1.221	214.15	107	NO
35	35 37Cl-2,3,7,8-TCDD	8.50e4	7.95e5			1.04	26.51	26.47	NO	1.028	1.026	10.309	103	NO
36	36 13C-1,2,3,4-TCDD	7.95e5	7.95e5	0.78	NO	1.00	25.89	25.80	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.17e6	1.17e6	0.77	NO	1.00	24.36	24.12	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	6.57e5	6.57e5	0.52	NO	1.00	34.42	34.32	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Thursday, June 25, 2020 07:04:21 Pacific Daylight Time

Printed: Thursday, June 25, 2020 07:04:36 Pacific Daylight Time

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

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

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

	Name	ID	Acq.Date	Acq.Time
1	200624R1_1	ST200624R1_1 1613 CS3 19L2305	24-Jun-20	09:01:15
2	200624R1_2	B0F0186-BS1 OPR 1	24-Jun-20	09:50:35
3	200624R1_3	SOLVENT BLANK	24-Jun-20	10:38:14
4	200624R1_4	B0F0186-BLK1 Method Blank 1	24-Jun-20	11:24:26
5	200624R1_5	2001033-01RE1 PDI-087SC-B-00-02-200509 ...	24-Jun-20	12:11:38
6	200624R1_6	2001073-09 SO-C11-Comp-0.0-0.5 13.85	24-Jun-20	12:58:50
7	200624R1_7	2001073-12 SO-C06-Comp-0.0-0.5 14.91	24-Jun-20	13:45:53
8	200624R1_8	2001073-14 SO-C02-Comp-0.0-0.5 16.51	24-Jun-20	14:32:09
9	200624R1_9	2001139-02 TMW-C01-1.2-2.5 1.57	24-Jun-20	15:18:23
10	200624R1_10	B0F0186-DUP1 Duplicate 1.55	24-Jun-20	16:04:34
11	200624R1_11	B0E0191-MS1 Matrix Spike 13.88	24-Jun-20	16:50:46
12	200624R1_12	B0E0191-MSD1 Matrix Spike Dup 13.96	24-Jun-20	17:36:57
13	200624R1_13	B0E0191-MS2 Matrix Spike 16.75	24-Jun-20	18:23:09
14	200624R1_14	B0E0191-MSD2 Matrix Spike Dup 16.46	24-Jun-20	19:09:21

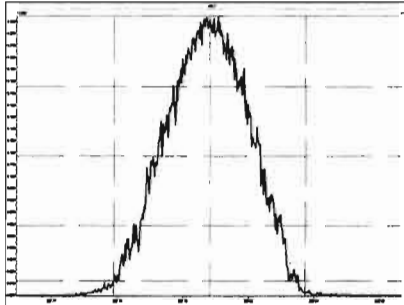
**Experiment Calibration Report**

**MassLynx 4.1 SCN815**

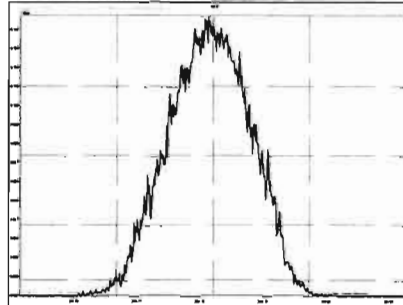
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, June 24, 2020 08:57:48 Pacific Daylight Time

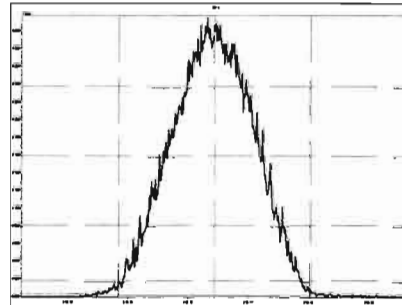
M 292.9824 R 10734



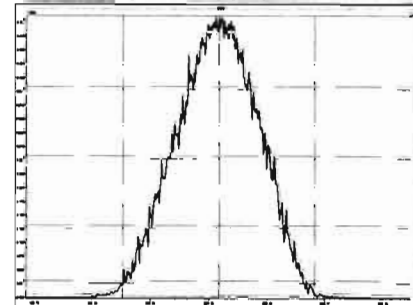
M 304.9824 R 11213



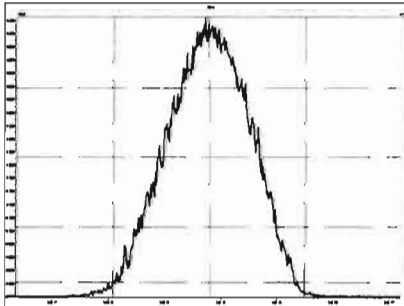
M 318.9792 R 10684



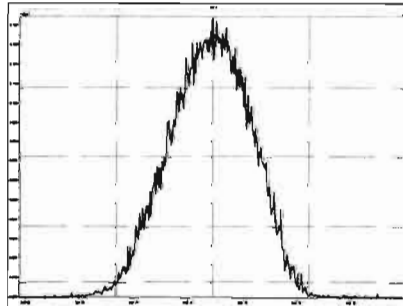
M 330.9792 R 10546



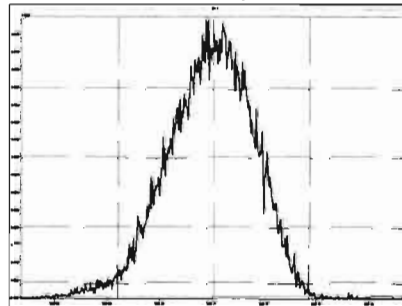
M 342.9792 R 10730



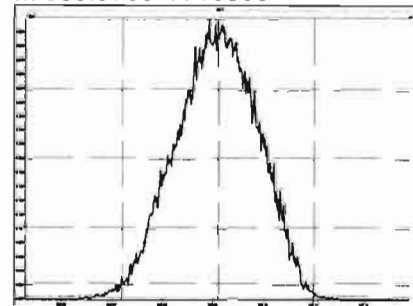
M 354.9792 R 10636



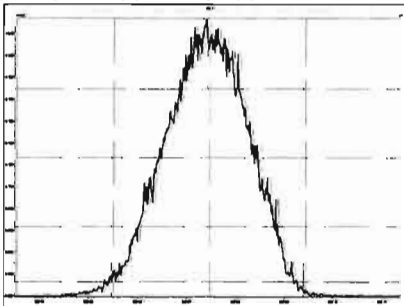
M 366.9792 R 10461



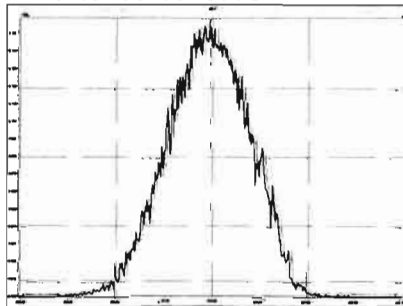
M 380.9760 R 10503



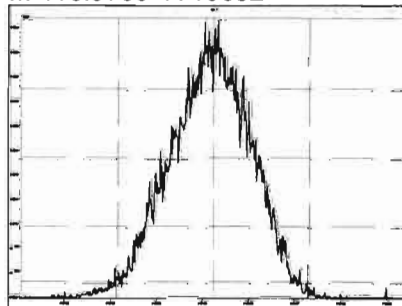
M 392.9760 R 10160



M 404.9760 R 10775



M 416.9760 R 10682



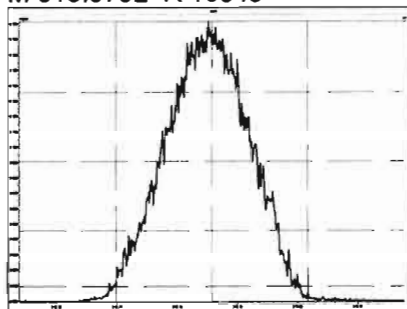
Experiment Calibration Report

MassLynx 4.1 SCN815

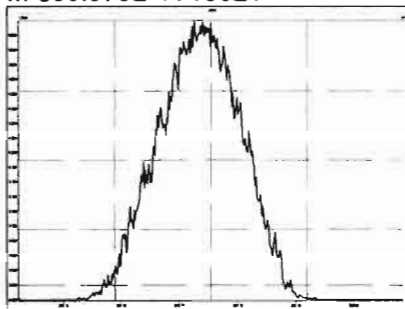
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, June 24, 2020 08:58:41 Pacific Daylight Time

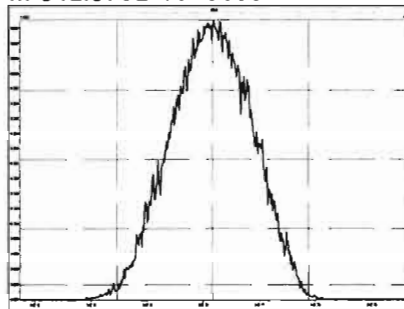
M 318.9792 R 10549



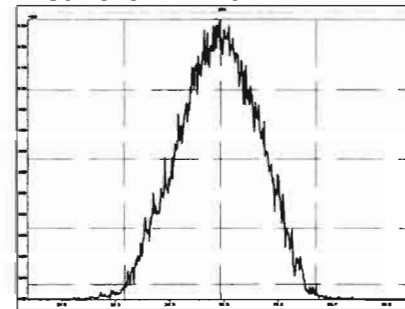
M 330.9792 R 10821



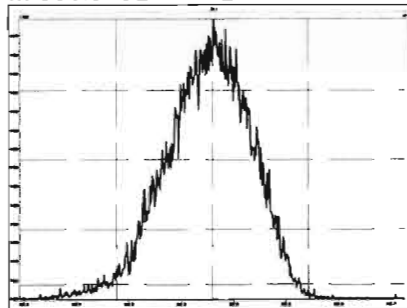
M 342.9792 R 10685



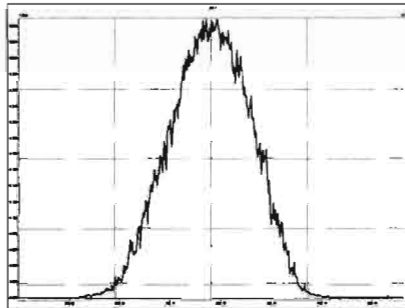
M 354.9792 R 10821



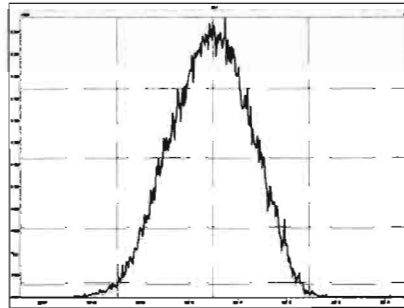
M 366.9792 R 10243



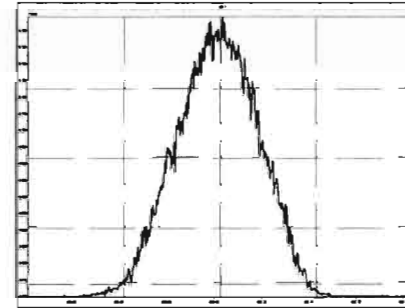
M 380.9760 R 10634



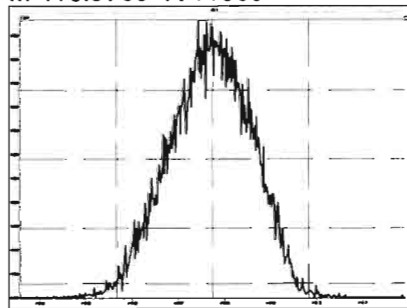
M 392.9760 R 10778



M 404.9760 R 10545



M 416.9760 R 11060



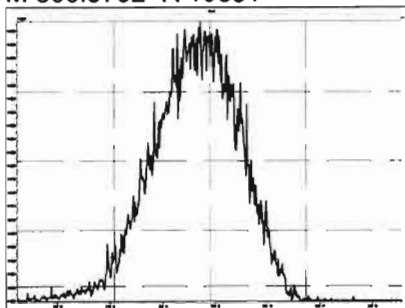
Experiment Calibration Report

MassLynx 4.1 SCN815

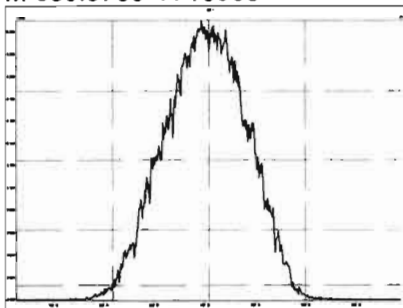
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, June 24, 2020 08:59:07 Pacific Daylight Time

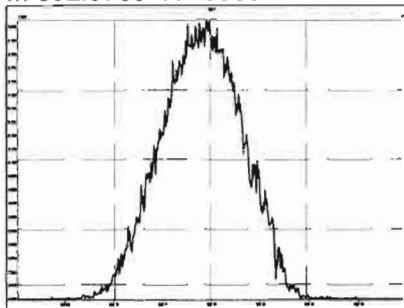
M 366.9792 R 10591



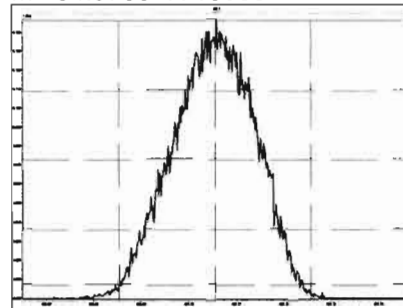
M 380.9760 R 10965



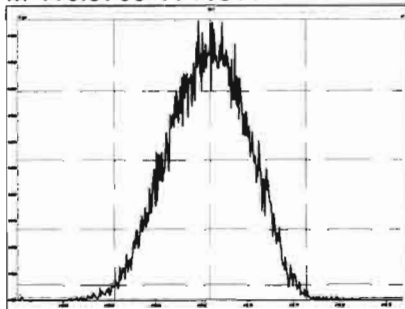
M 392.9760 R 10868



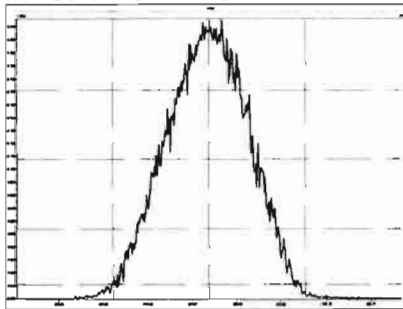
M 404.9760 R 10635



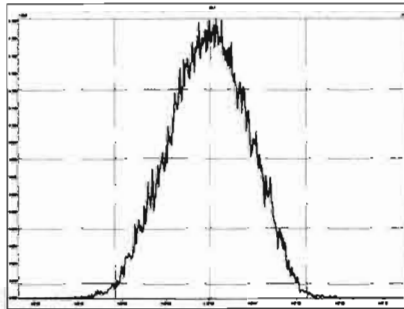
M 416.9760 R 11311



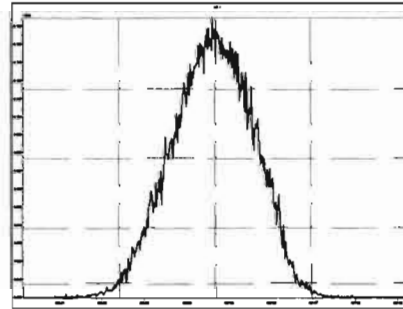
M 430.9728 R 11015



M 442.9728 R 10593



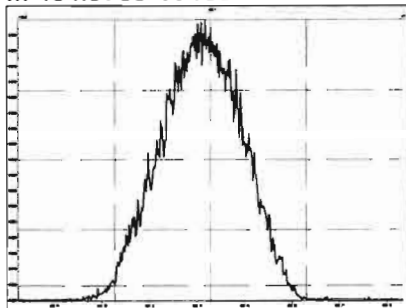
M 454.9728 R 10591



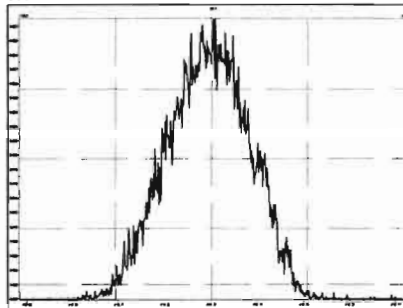
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, June 24, 2020 08:59:37 Pacific Daylight Time

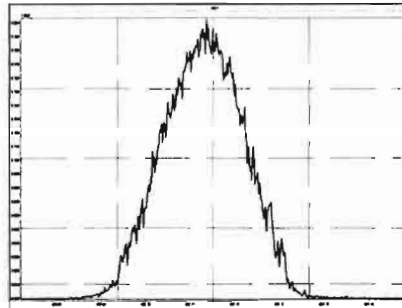
M 404.9760 R 10550



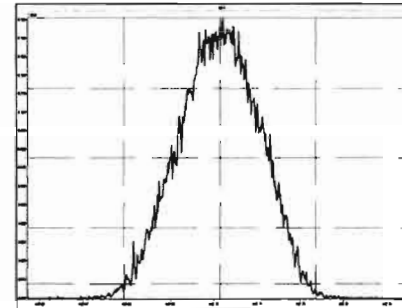
M 416.9760 R 10504



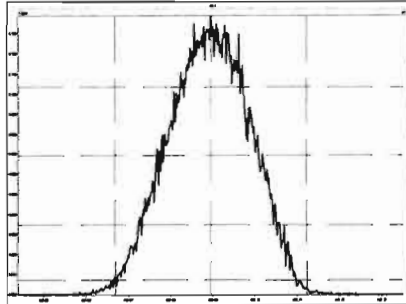
M 430.9728 R 11012



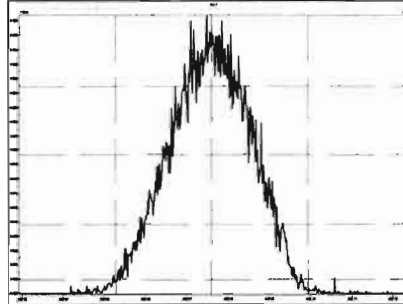
M 442.9728 R 10965



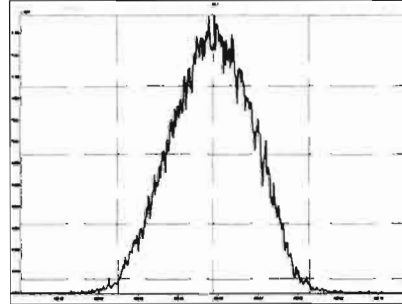
M 454.9728 R 10732



M 466.9728 R 10685



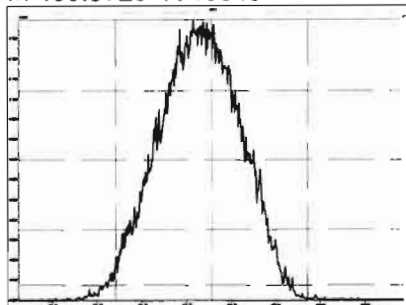
M 480.9696 R 10593



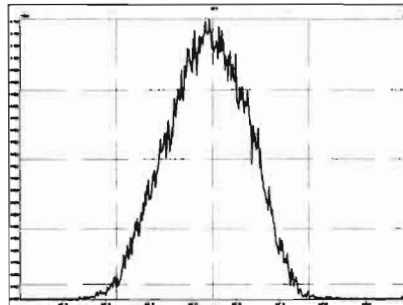
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, June 24, 2020 09:00:01 Pacific Daylight Time

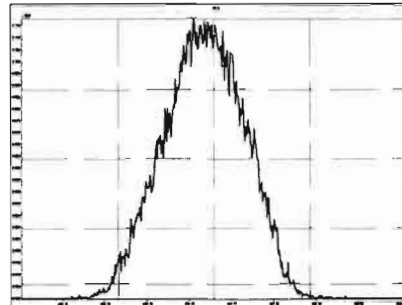
M 430.9728 R 10549



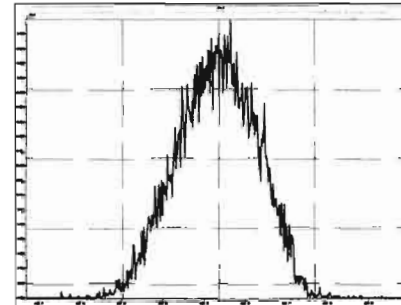
M 442.9728 R 11110



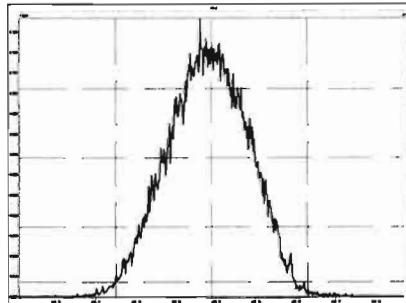
M 454.9728 R 10867



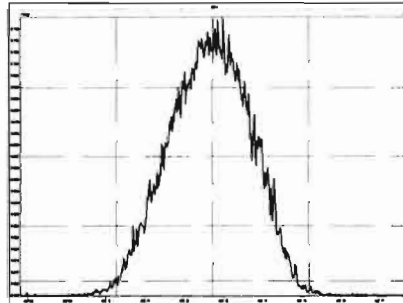
M 466.9728 R 10964



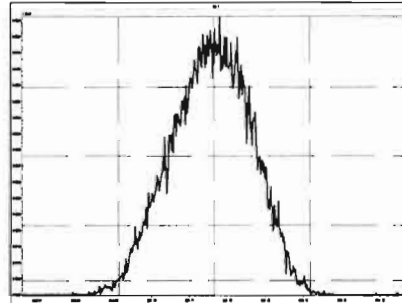
M 480.9696 R 10550



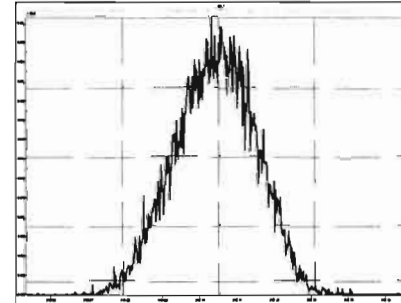
M 492.9696 R 10776



M 504.9696 R 10592



M 516.9697 R 10505



Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 09:49:48 Pacific Daylight Time

Printed: Wednesday, June 24, 2020 09:50:07 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

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

Name: 200624R1\_1, Date: 24-Jun-2020, Time: 09:01:15, ID: ST200624R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.44
2	2 1,2,8,9-TCDD (Last)	27.43
3	3 1,2,4,7,9-PeCDD (First)	29.22
4	4 1,2,3,8,9-PeCDD (Last)	31.82
5	5 1,2,4,6,7,9-HxCDD (First)	33.31
6	6 1,2,3,7,8,9-HxCDD (Last)	35.21
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.74
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.76
9	9 1,3,6,8-TCDF (First)	20.32
10	10 1,2,8,9-TCDF (Last)	27.59
11	11 1,3,4,6,8-PeCDF (First)	27.55
12	12 1,2,3,8,9-PeCDF (Last)	32.08
13	13 1,2,3,4,6,8-HxCDF (First)	32.77
14	14 1,2,3,7,8,9-HxCDF (Last)	35.57
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.35
16	16 1,2,3,4,7,8,9-HpCDF (Last)	39.30



Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 09:49:48 Pacific Daylight Time  
Printed: Wednesday, June 24, 2020 09:50:07 Pacific Daylight Time

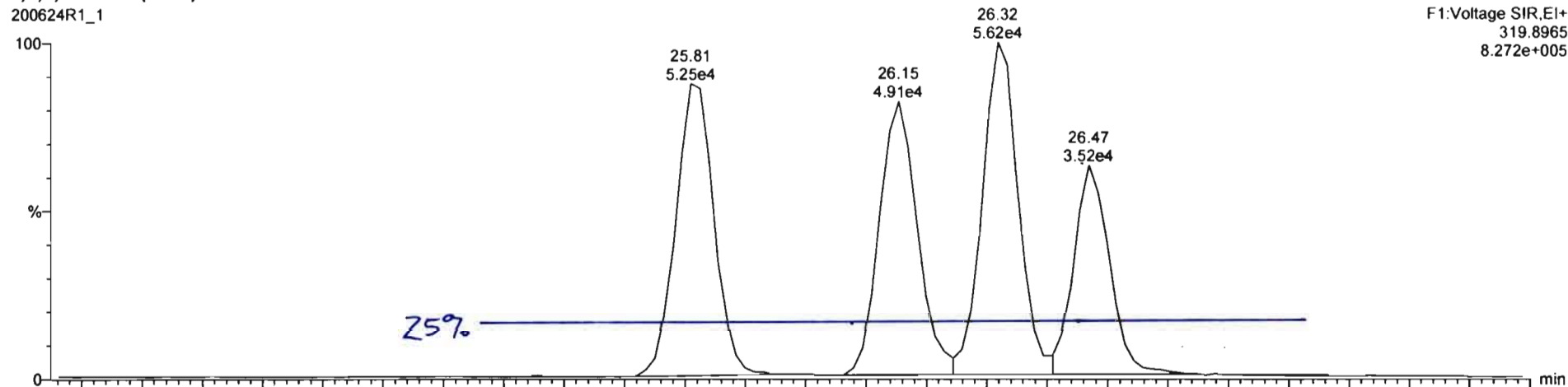
GPB 06/24/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11  
Calibration: U:\VG12.PRO\CurveDB\ldb5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

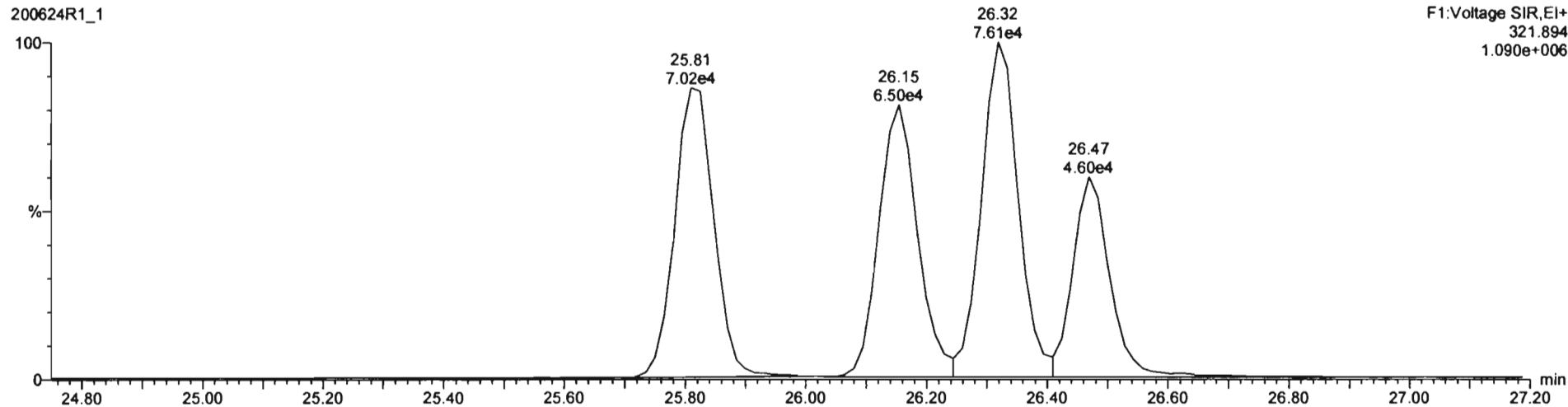
Name: 200624R1\_1, Date: 24-Jun-2020, Time: 09:01:15, ID: ST200624R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200624R1\_1



200624R1\_1



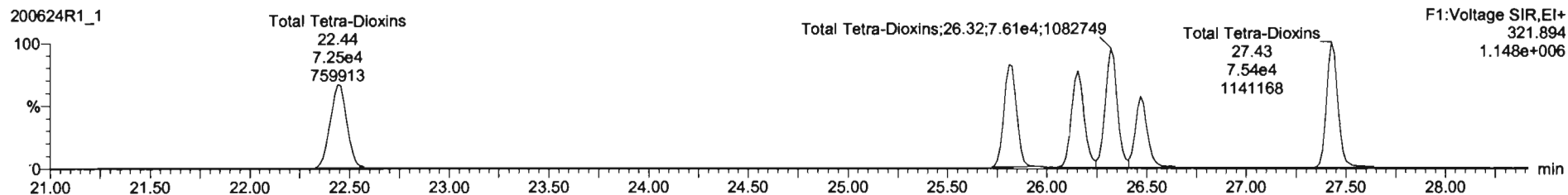
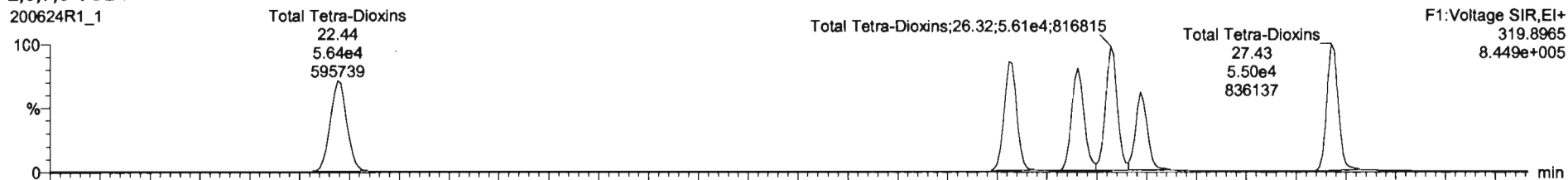
Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 09:52:27 Pacific Daylight Time  
Printed: Wednesday, June 24, 2020 09:52:31 Pacific Daylight Time

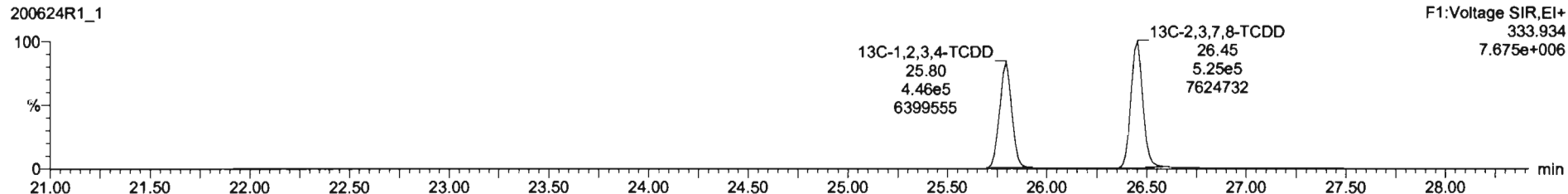
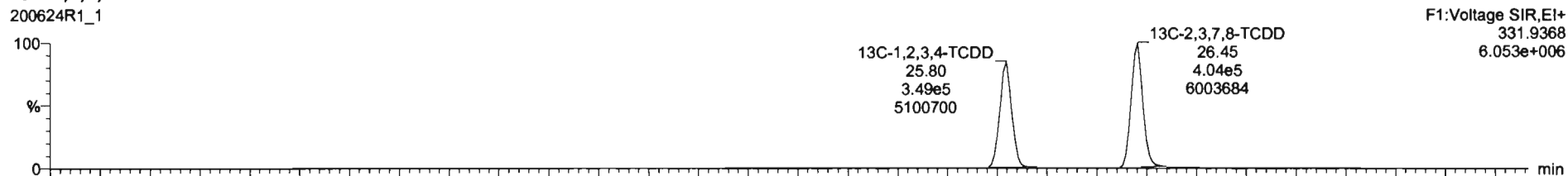
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Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200624R1\_1, Date: 24-Jun-2020, Time: 09:01:15, ID: ST200624R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

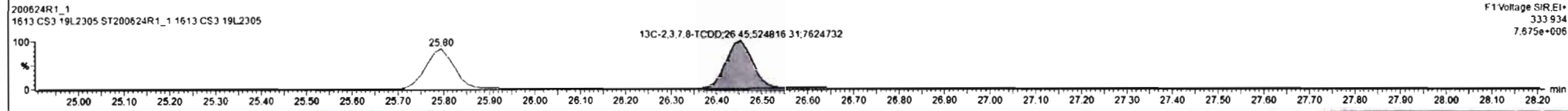
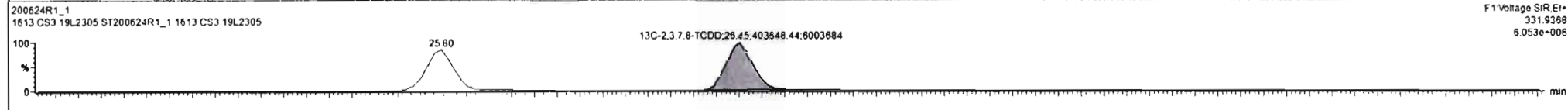
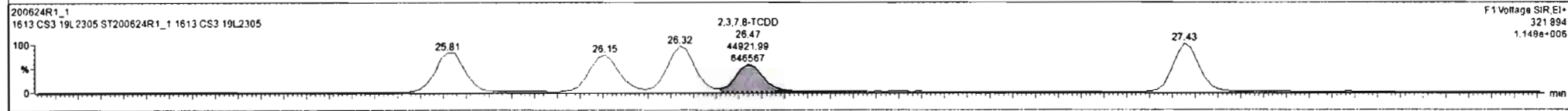
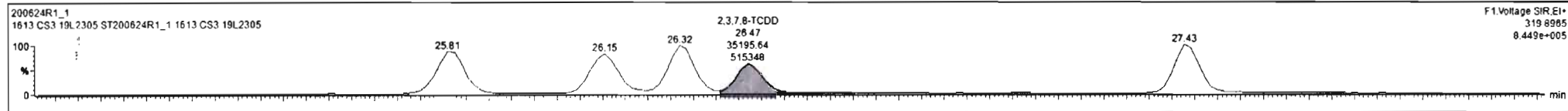
**2,3,7,8-TCDD**



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



#	Name	Resp	IS Resp	Pred RA	RA	rly	RPF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	2,3,7,8-TCDD	8.01e4	9.28e5	0.77	0.78	NO	0.8883	26.49	26.47	NO	1.001	1.001	9.71	97.1	NO
2	1,2,3,7,8-PeCDD	3.20e5	7.49e5	0.83	0.81	NO	0.9081	31.44	31.44	NO	1.001	1.000	47.1	94.2	NO
3	1,2,3,4,7,8-HxCDD	2.62e5	5.31e5	1.24	1.23	NO	1.0334	34.81	34.83	NO	1.000	1.001	47.8	95.6	NO
4	1,2,3,6,7,8-HxCDD	2.97e5	6.81e5	1.24	1.26	NO	0.8923	34.91	34.93	NO	1.000	1.001	48.9	97.7	NO
5	1,2,3,7,8,9-HxCDD	2.95e5	6.28e5	1.24	1.21	NO	0.8869	35.21	35.21	NO	1.000	1.000	47.8	95.8	NO
6	1,2,3,4,6,7,8-HpCDD	2.31e5	5.22e5	1.04	1.02	NO	0.8639	38.75	38.78	NO	1.000	1.001	51.2	102	NO
7	OCDD	4.35e5	9.48e5	0.89	0.87	NO	0.9136	41.73	41.74	NO	1.000	1.000	101	101	NO
8	2,3,7,8-TCDF	8.81e4	1.21e6	0.77	0.74	NO	0.7510	25.58	25.59	NO	1.001	1.001	9.70	97.0	NO
9	1,2,3,7,8-PeCDF	4.49e5	1.05e6	1.55	1.52	NO	0.8925	30.16	30.15	NO	1.001	1.001	47.8	95.8	NO
10	2,3,4,7,8-PeCDF	4.58e5	1.02e6	1.55	1.55	NO	0.9348	31.16	31.13	NO	1.001	1.000	47.9	95.8	NO
11	1,2,3,4,7,8-HxCDF	3.95e5	8.86e5	1.24	1.20	NO	0.8845	33.93	33.95	NO	1.000	1.001	50.5	101	NO
12	1,2,3,6,7,8-HxCDF	3.53e5	7.85e5	1.24	1.20	NO	0.8892	34.06	34.07	NO	1.000	1.001	50.5	101	NO
13	2,3,4,6,7,8-HxCDF	3.29e5	7.14e5	1.24	1.20	NO	0.9341	34.68	34.65	NO	1.001	1.000	49.3	98.6	NO
14	1,2,3,7,8,9-HxCDF	2.65e5	5.89e5	1.24	1.20	NO	0.8707	35.55	35.57	NO	1.000	1.001	51.7	103	NO
15	1,2,3,4,6,7,8-HpCDF	2.44e5	5.27e5	1.04	1.01	NO	0.8734	37.37	37.35	NO	1.001	1.001	52.9	106	NO
16	1,2,3,4,7,8,9-HpCDF	1.99e5	3.88e5	1.04	1.06	NO	1.0128	39.29	39.30	NO	1.000	1.000	53.5	107	NO
17	OCDF	4.10e5	1.05e6	0.89	0.84	NO	0.8065	41.92	41.93	NO	1.000	1.000	96.9	96.9	NO
18	13C-2,3,7,8-TCDD	9.28e5	7.95e5	0.77	0.77	NO	1.1563	26.48	26.45	NO	1.026	1.026	101	101	NO
19	13C-1,2,3,7,8-PeCDD	7.49e5	7.95e5	0.83	0.82	NO	0.8490	31.66	31.42	NO	1.227	1.218	111	111	NO
20	13C-1,2,3,4,7,8-HxCDD	5.31e5	8.57e5	1.24	1.26	NO	0.7790	34.81	34.80	NO	1.014	1.014	104	104	NO
21	13C-1,2,3,6,7,8-HxCDD	6.81e5	6.57e5	1.24	1.28	NO	1.0167	34.92	34.91	NO	1.017	1.017	102	102	NO



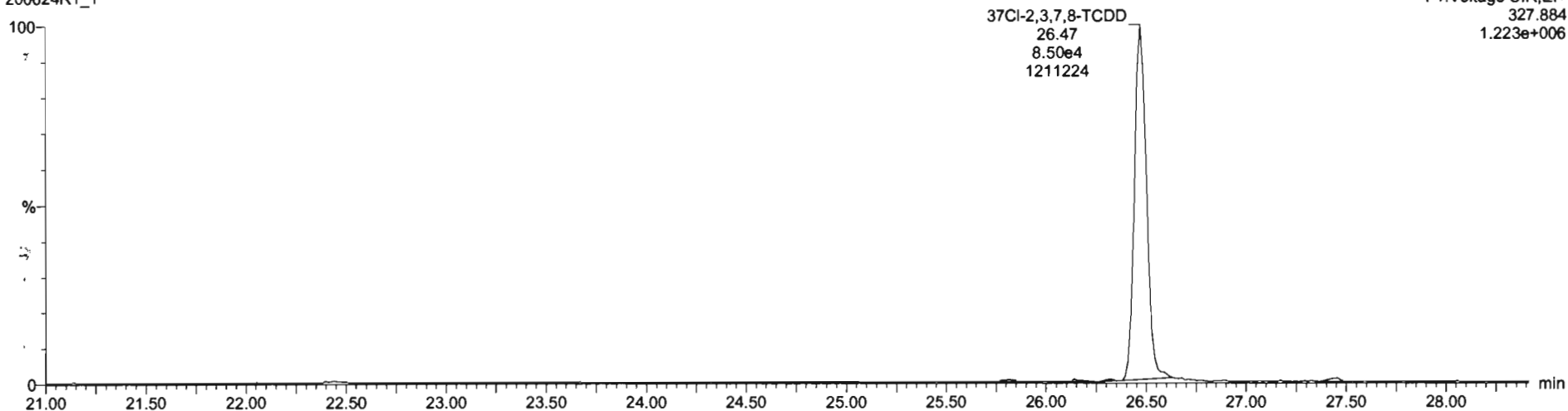
Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 09:52:27 Pacific Daylight Time  
Printed: Wednesday, June 24, 2020 09:52:31 Pacific Daylight Time

Name: 200624R1\_1, Date: 24-Jun-2020, Time: 09:01:15, ID: ST200624R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

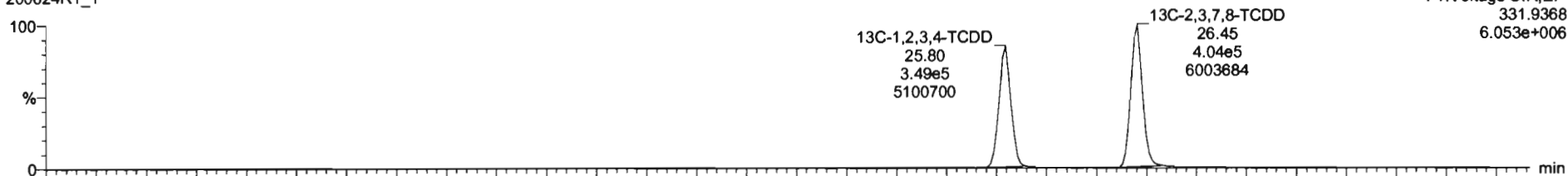
**37Cl-2,3,7,8-TCDD**

200624R1\_1

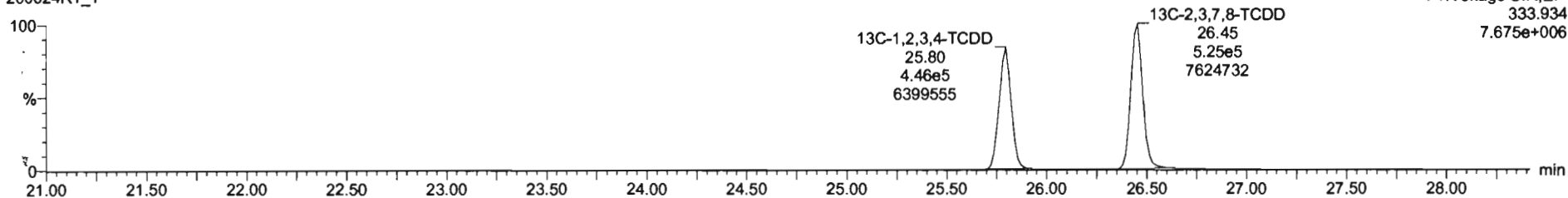


**13C-1,2,3,4-TCDD**

200624R1\_1



200624R1\_1



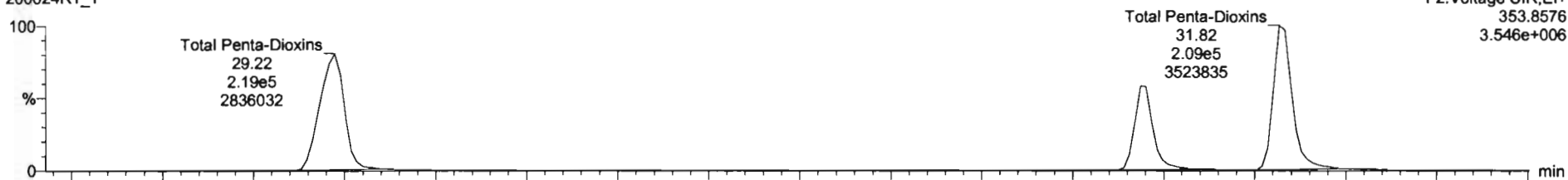
Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 09:52:27 Pacific Daylight Time  
Printed: Wednesday, June 24, 2020 09:52:31 Pacific Daylight Time

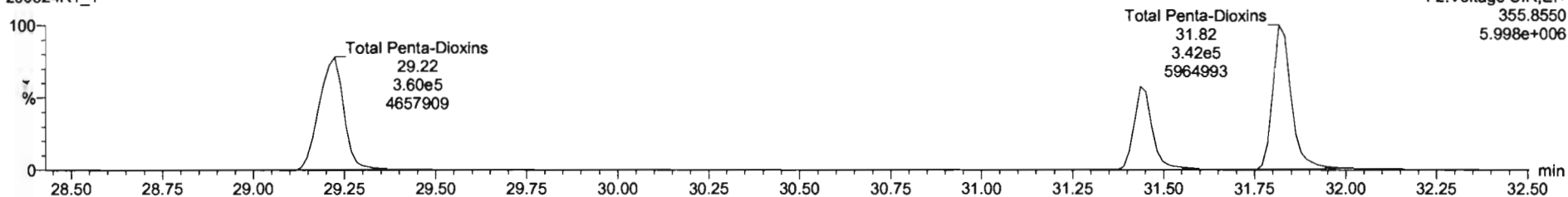
Name: 200624R1\_1, Date: 24-Jun-2020, Time: 09:01:15, ID: ST200624R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200624R1\_1

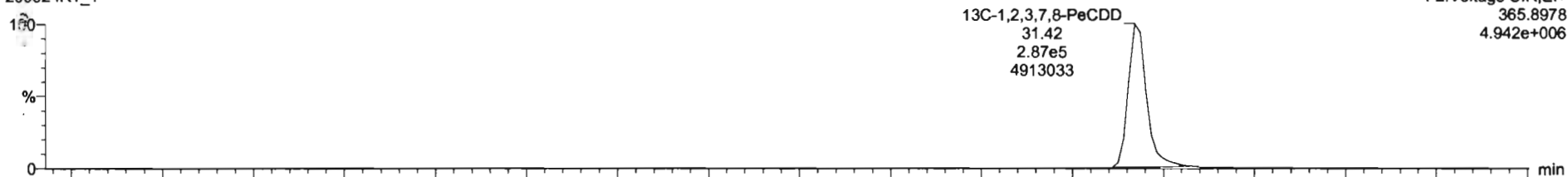


200624R1\_1

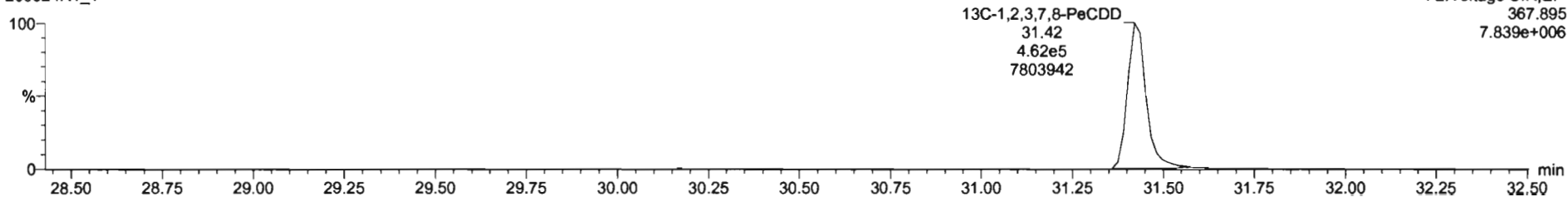


**13C-1,2,3,7,8-PeCDD**

200624R1\_1



200624R1\_1



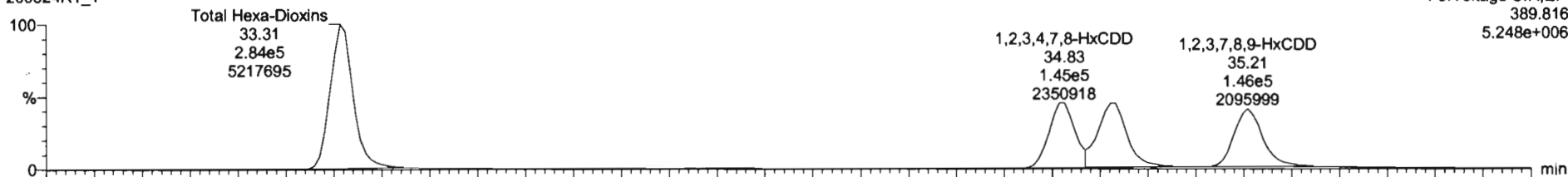
Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 09:52:27 Pacific Daylight Time  
Printed: Wednesday, June 24, 2020 09:52:31 Pacific Daylight Time

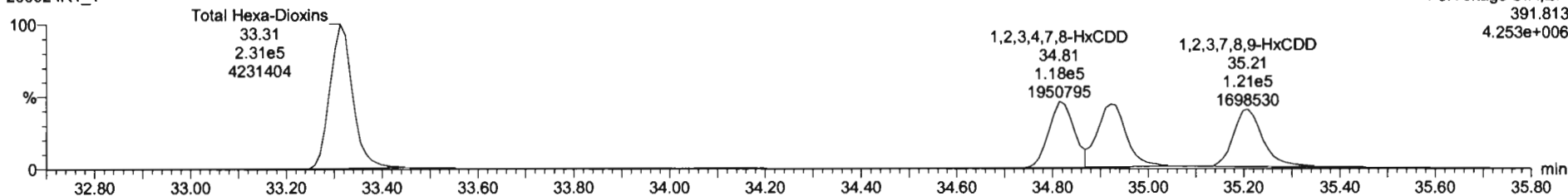
Name: 200624R1\_1, Date: 24-Jun-2020, Time: 09:01:15, ID: ST200624R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200624R1\_1

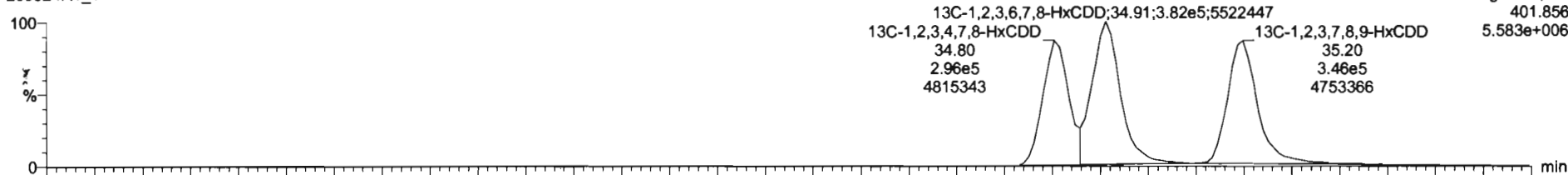


200624R1\_1

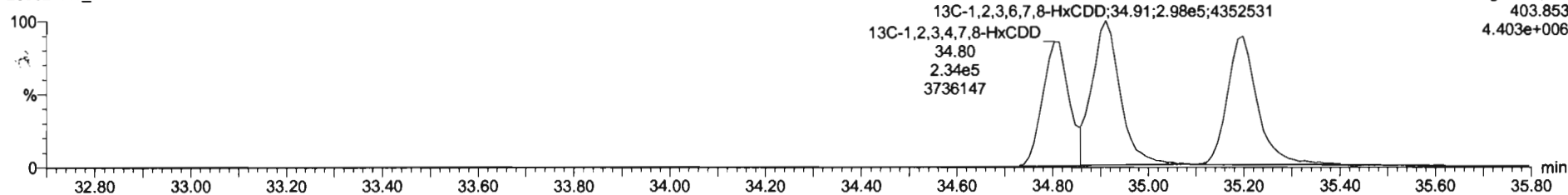


**13C-1,2,3,4,7,8-HxCDD**

200624R1\_1



200624R1\_1



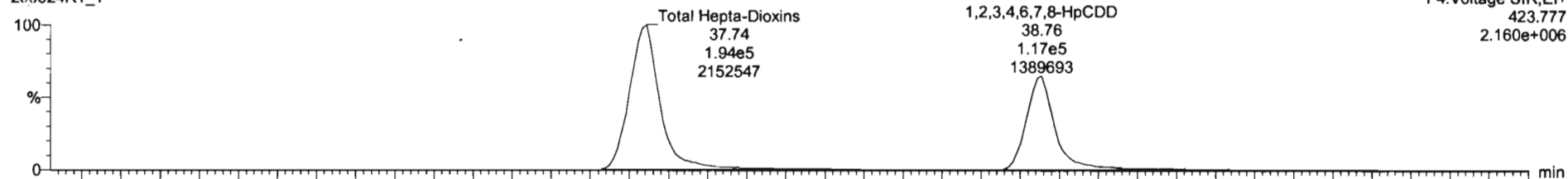
Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 09:52:27 Pacific Daylight Time  
Printed: Wednesday, June 24, 2020 09:52:31 Pacific Daylight Time

Name: 200624R1\_1, Date: 24-Jun-2020, Time: 09:01:15, ID: ST200624R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

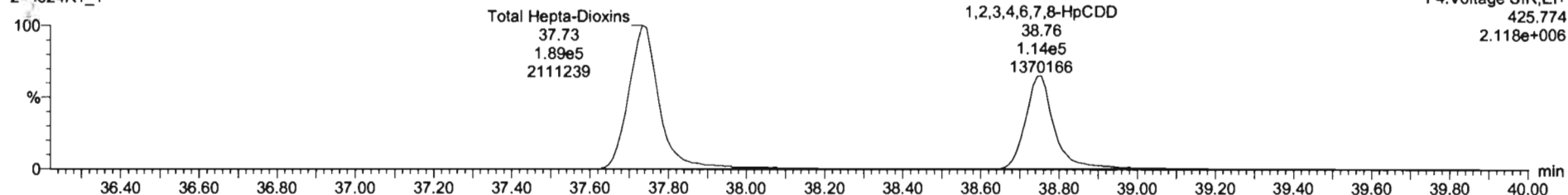
**1,2,3,4,6,7,8-HpCDD**

200624R1\_1



F4:Voltage SIR,EI+  
423.777  
2.160e+006

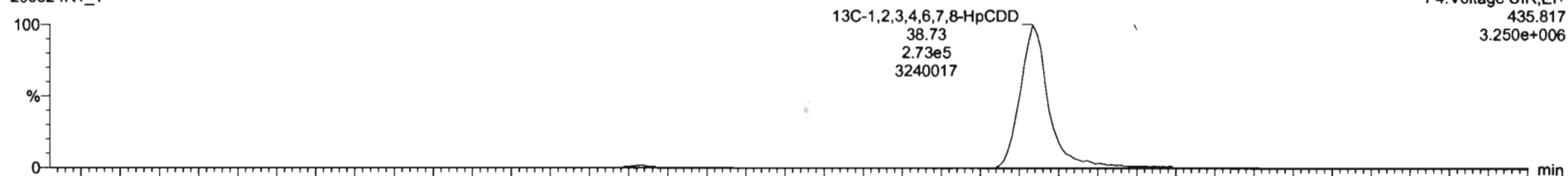
200624R1\_1



F4:Voltage SIR,EI+  
425.774  
2.118e+006

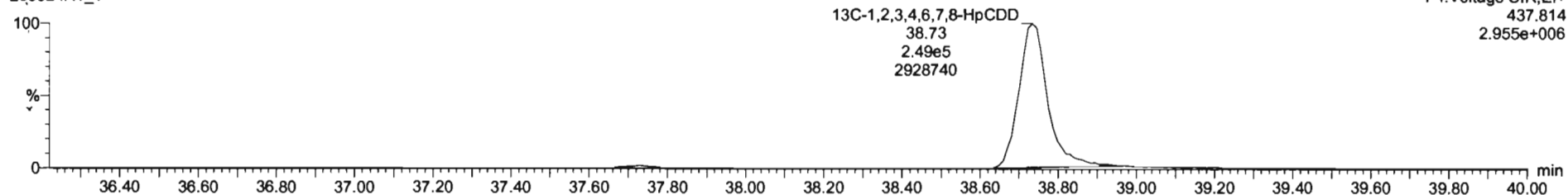
**13C-1,2,3,4,6,7,8-HpCDD**

200624R1\_1



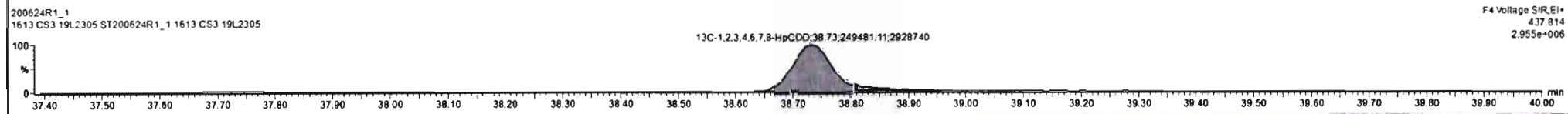
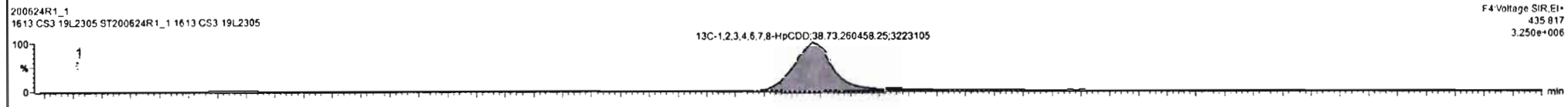
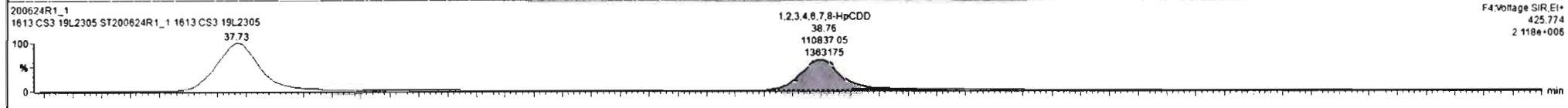
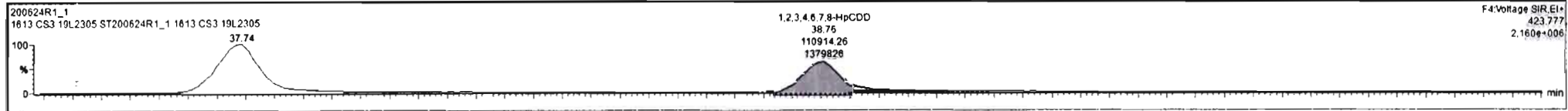
F4:Voltage SIR,EI+  
435.817  
3.250e+006

200624R1\_1



F4:Voltage SIR,EI+  
437.814  
2.955e+006

#	Name	Resp	S Resp	Pred RA	RA	Adj	RPF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	8.01e4	9.29e5	0.77	0.78	NO	0.8853	28.49	28.47	NO	1.001	1.001	9.71	97.1	NO
2	1,2,3,7,8-PeCDD	3.20e5	7.49e5	0.83	0.81	NO	0.9081	31.44	31.44	NO	1.001	1.000	47.1	94.2	NO
3	1,2,3,4,7,8-HxCDD	2.62e5	5.31e5	1.24	1.23	NO	1.0334	34.81	34.83	NO	1.000	1.001	47.8	95.6	NO
4	1,2,3,6,7,8-HxCDD	2.97e5	6.81e5	1.24	1.26	NO	0.8923	34.91	34.93	NO	1.000	1.001	48.9	97.7	NO
5	1,2,3,7,8,9-HxCDD	2.96e5	6.28e5	1.24	1.21	NO	0.8999	35.21	35.21	NO	1.000	1.000	47.5	95.5	NO
6	1,2,3,4,6,7,8-HpCDD	2.32e5	5.18e5	1.94	1.95	NO	0.8839	38.75	38.78	NO	1.000	1.001	50.3	101	NO
7	OCDD	4.36e5	9.48e5	0.89	0.87	NO	0.9138	41.73	41.74	NO	1.000	1.000	101	101	NO
8	2,3,7,8-TCDF	8.61e4	1.21e6	0.77	0.74	NO	0.7510	25.58	25.59	NO	1.001	1.001	9.70	97.0	NO
9	1,2,3,7,8-PeCDF	4.49e5	1.05e6	1.55	1.52	NO	0.8925	30.18	30.15	NO	1.001	1.001	47.8	95.6	NO
10	1,2,3,4,7,8-PeCDF	4.58e5	1.02e6	1.55	1.55	NO	0.9348	31.16	31.13	NO	1.001	1.000	47.9	95.8	NO
11	1,2,3,4,7,8-HxCDF	3.06e5	6.86e5	1.24	1.20	NO	0.8845	33.93	33.95	NO	1.000	1.001	50.5	101	NO
12	1,2,3,6,7,8-HxCDF	3.53e5	7.85e5	1.24	1.20	NO	0.8892	34.08	34.07	NO	1.000	1.001	50.5	101	NO
13	2,3,4,6,7,8-HxCDF	3.29e5	7.14e5	1.24	1.20	NO	0.9341	34.68	34.65	NO	1.001	1.000	49.3	98.6	NO
14	1,2,3,7,8,9-HxCDF	2.65e5	5.89e5	1.24	1.20	NO	0.8707	35.55	35.57	NO	1.000	1.001	51.7	103	NO
15	1,2,3,4,6,7,8-HpCDF	2.44e5	5.27e5	1.94	1.01	NO	0.8734	37.37	37.35	NO	1.001	1.001	52.9	106	NO
16	1,2,3,4,7,8,9-HpCDF	1.99e5	3.69e5	1.94	1.06	NO	1.0128	39.29	39.30	NO	1.000	1.000	53.5	107	NO
17	OCDF	4.10e5	1.05e6	0.89	0.84	NO	0.8065	41.92	41.93	NO	1.000	1.000	96.9	96.9	NO
18	13C-2,3,7,8-TCDD	9.28e5	7.95e5	0.77	0.77	NO	1.1583	26.48	26.45	NO	1.026	1.026	101	101	NO
19	13C-1,2,3,7,8-PeCDD	7.49e5	7.95e5	0.83	0.82	NO	0.8490	31.66	31.42	NO	1.227	1.218	111	111	NO
20	13C-1,2,3,4,7,8-HxCDD	5.31e5	6.57e5	1.24	1.26	NO	0.7790	34.61	34.80	NO	1.014	1.014	104	104	NO
21	13C-1,2,3,6,7,8-HxCDD	6.81e5	6.57e5	1.24	1.28	NO	1.0167	34.92	34.91	NO	1.017	1.017	102	102	NO

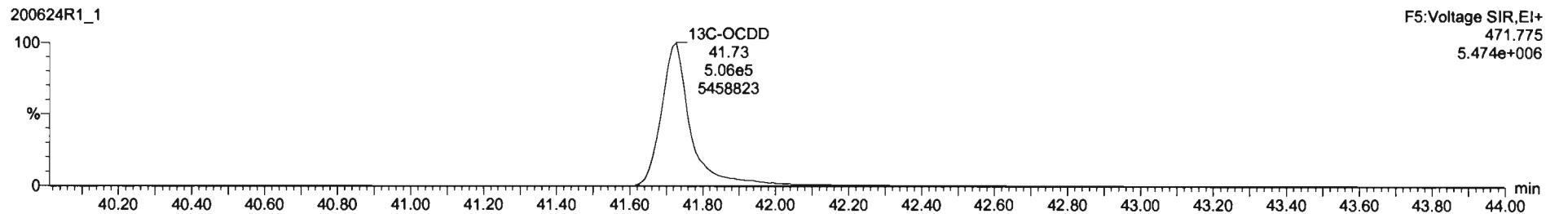
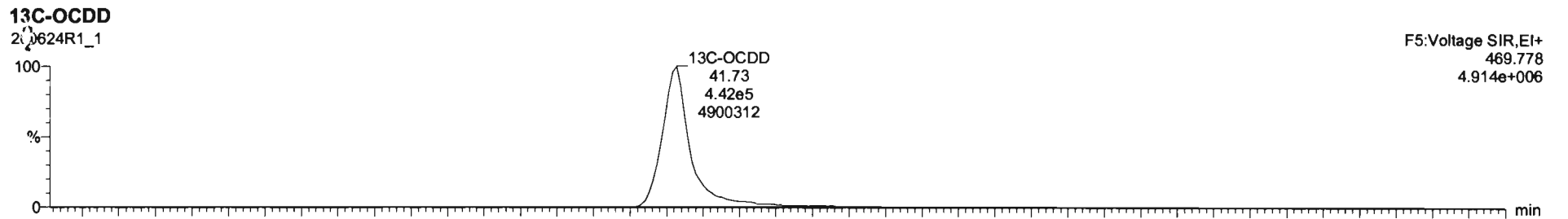
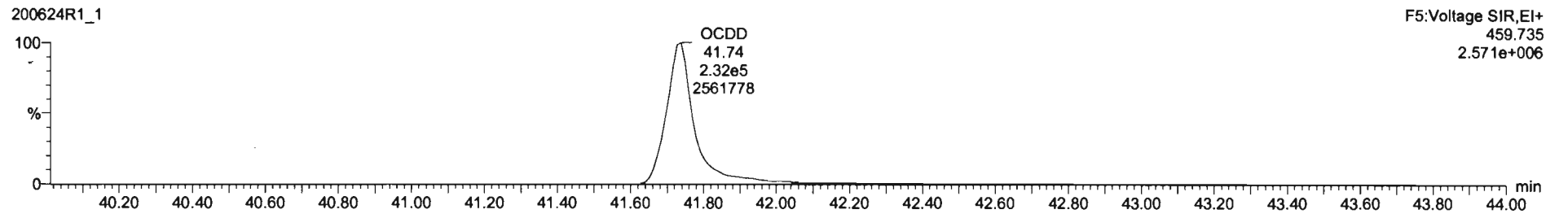
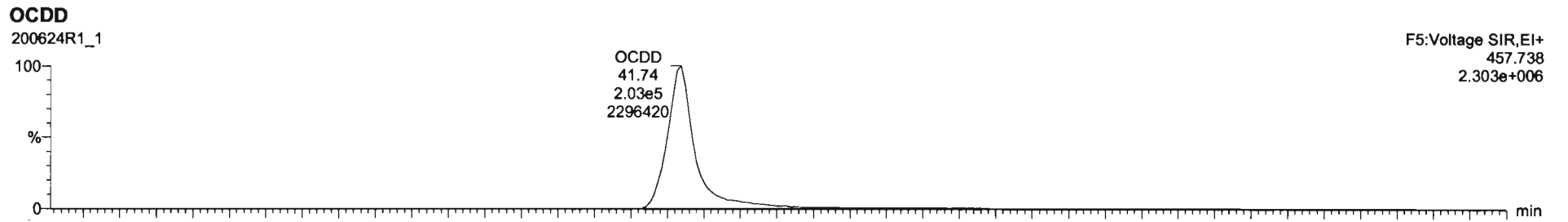




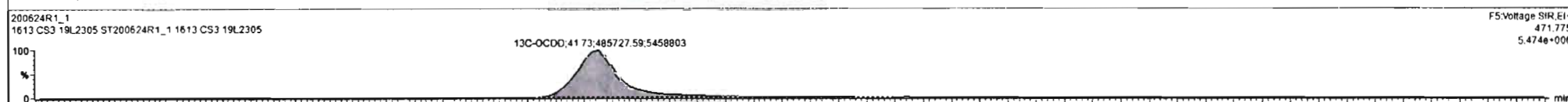
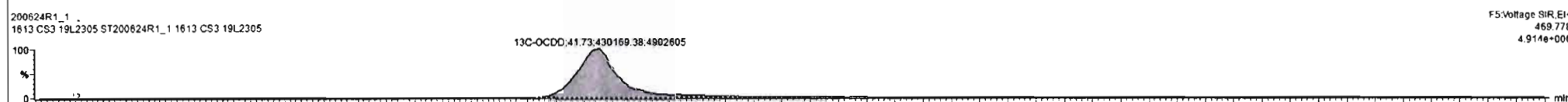
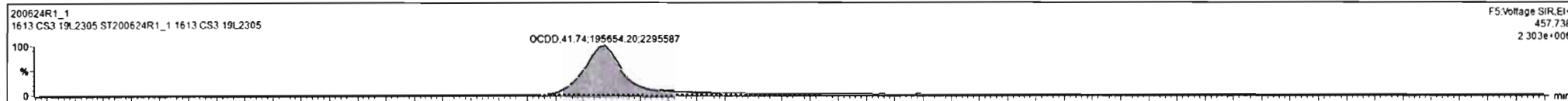
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Printed: Wednesday, June 24, 2020 09:52:31 Pacific Daylight Time

Name: 200624R1\_1, Date: 24-Jun-2020, Time: 09:01:15, ID: ST200624R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	2,3,7,8-TCDD	8.01e4	9.28e5	0.77	0.78	NO	0.8863	26.49	26.47	NO	1.001	1.001	9.71	97.1	NO
2	1,2,3,7,8-PeCDD	3.20e5	7.49e5	0.63	0.61	NO	0.9061	31.44	31.44	NO	1.001	1.000	47.1	94.2	NO
3	1,2,3,4,7,8-HxCDD	2.62e5	5.31e5	1.24	1.23	NO	1.0334	34.81	34.83	NO	1.000	1.001	47.8	95.6	NO
4	1,2,3,6,7,8-HxCDD	2.97e5	6.81e5	1.24	1.26	NO	0.8923	34.91	34.93	NO	1.000	1.001	48.9	97.7	NO
5	1,2,3,7,8,9-HxCDD	2.96e5	6.28e5	1.24	1.21	NO	0.8869	35.21	35.21	NO	1.000	1.000	47.8	95.6	NO
6	1,2,3,4,6,7,8-HpCDD	2.22e5	5.10e5	1.04	1.00	NO	0.8639	38.75	38.76	NO	1.000	1.001	50.3	101	NO
7	OCDD	4.19e5	8.19e5	0.88	0.88	NO	0.8138	41.73	41.74	NO	1.000	1.000	101	100	NO
8	2,3,7,8-TCDF	8.61e4	1.21e6	0.71	0.74	NO	0.7516	28.68	28.59	NO	1.001	1.001	9.70	97.9	NO
9	1,2,3,7,8-PeCDF	4.49e5	1.05e6	1.55	1.52	NO	0.8925	30.16	30.15	NO	1.001	1.001	47.6	95.6	NO
10	1,2,3,4,7,8-HxCDF	4.58e5	1.02e6	1.55	1.55	NO	0.9348	31.16	31.13	NO	1.001	1.000	47.9	95.8	NO
11	1,2,3,4,7,8,9-HxCDF	3.06e5	6.86e5	1.24	1.20	NO	0.8845	33.93	33.95	NO	1.000	1.001	50.5	101	NO
12	1,2,3,6,7,8-HxCDF	3.53e5	7.85e5	1.24	1.20	NO	0.8882	34.06	34.07	NO	1.000	1.001	50.5	101	NO
13	1,2,3,4,6,7,8-HpCDF	3.29e5	7.14e5	1.24	1.20	NO	0.9341	34.68	34.65	NO	1.001	1.000	49.3	96.6	NO
14	1,2,3,7,8,9-HxCDF	2.65e5	5.89e5	1.24	1.20	NO	0.8707	35.55	35.57	NO	1.000	1.001	51.7	103	NO
15	1,2,3,4,6,7,8-HpCDF	2.44e5	5.27e5	1.04	1.01	NO	0.8734	37.37	37.35	NO	1.001	1.001	52.9	106	NO
16	1,2,3,4,7,8,9-HpCDF	1.99e5	3.68e5	1.04	1.06	NO	1.0128	39.29	39.30	NO	1.000	1.000	53.5	107	NO
17	OCDF	4.10e5	1.05e6	0.80	0.84	NO	0.8665	41.92	41.93	NO	1.000	1.000	96.9	96.9	NO
18	13C-2,3,7,8-TCDD	9.28e5	7.95e5	0.77	0.77	NO	1.1563	26.48	26.45	NO	1.026	1.026	101	101	NO
19	13C-1,2,3,7,8-PeCDD	7.49e5	7.96e5	0.63	0.62	NO	0.8490	31.66	31.42	NO	1.227	1.218	111	111	NO
20	13C-1,2,3,4,7,8-HxCDD	5.31e5	6.57e5	1.24	1.26	NO	0.7790	34.81	34.80	NO	1.014	1.014	104	104	NO
21	13C-1,2,3,6,7,8-HxCDD	6.81e5	8.57e5	1.24	1.28	NO	1.0167	34.92	34.91	NO	1.017	1.017	102	102	NO



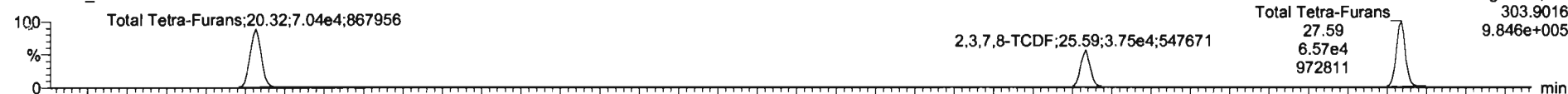
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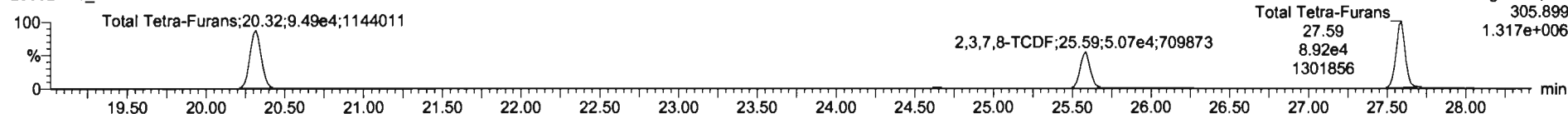
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**2,3,7,8-TCDF**

200624R1\_1

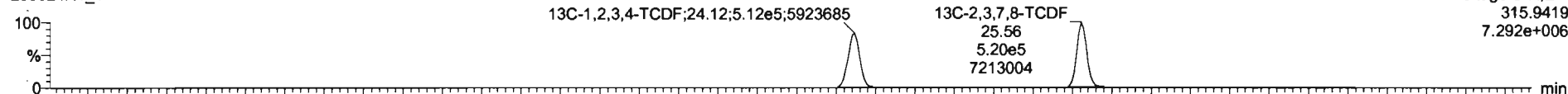


200624R1\_1

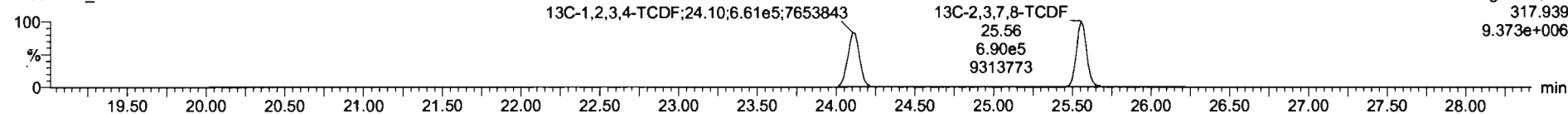


**13C-2,3,7,8-TCDF**

200624R1\_1

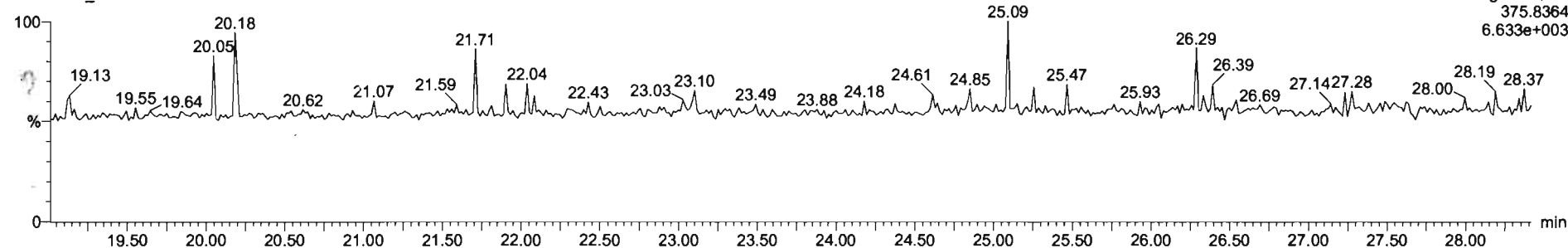


200624R1\_1



**DPE1**

200624R1\_1



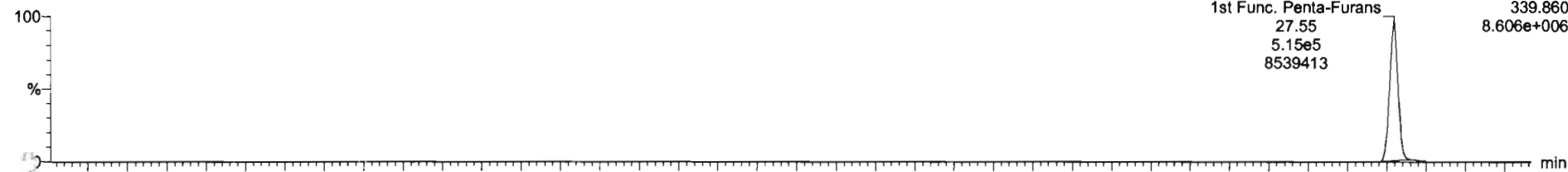
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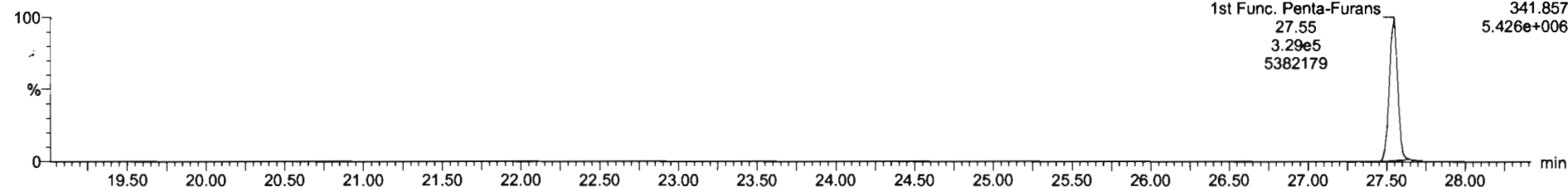
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200624R1\_1

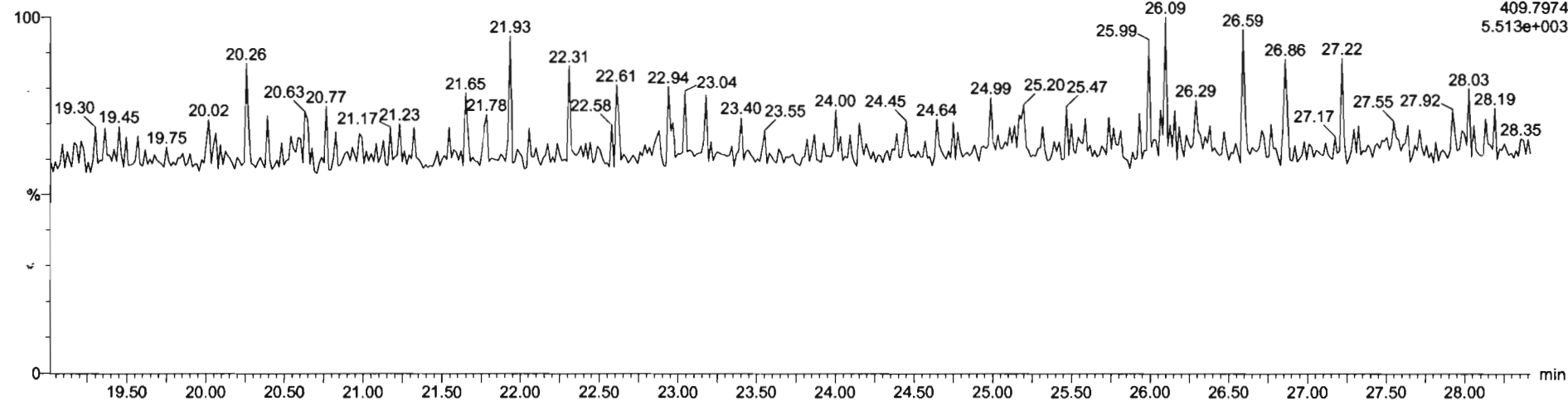


200624R1\_1



DPE6

200624R1\_1

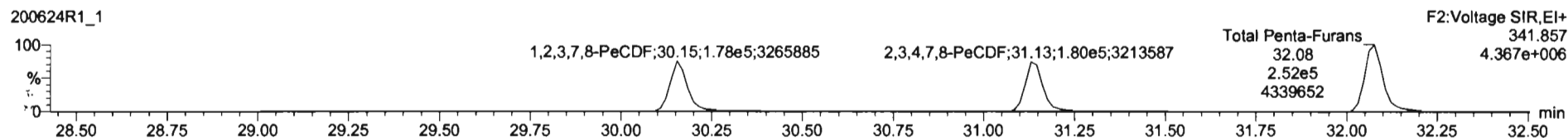
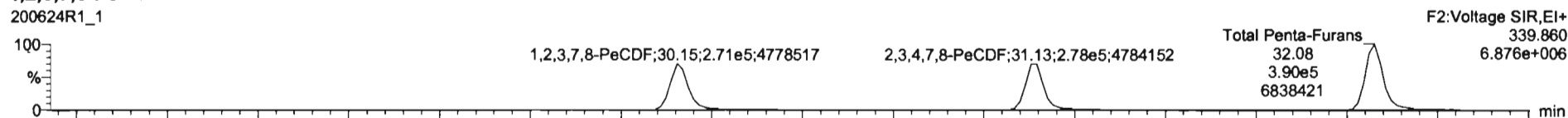


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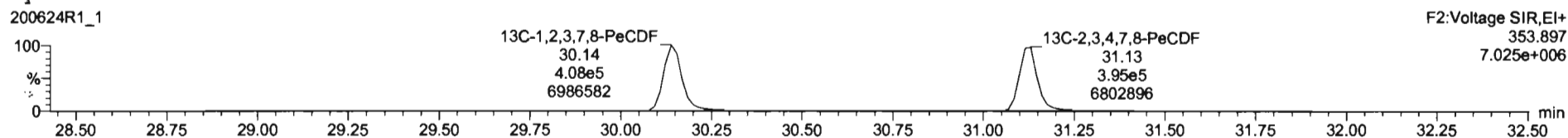
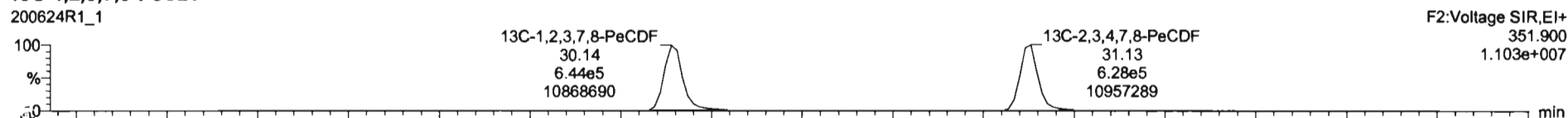
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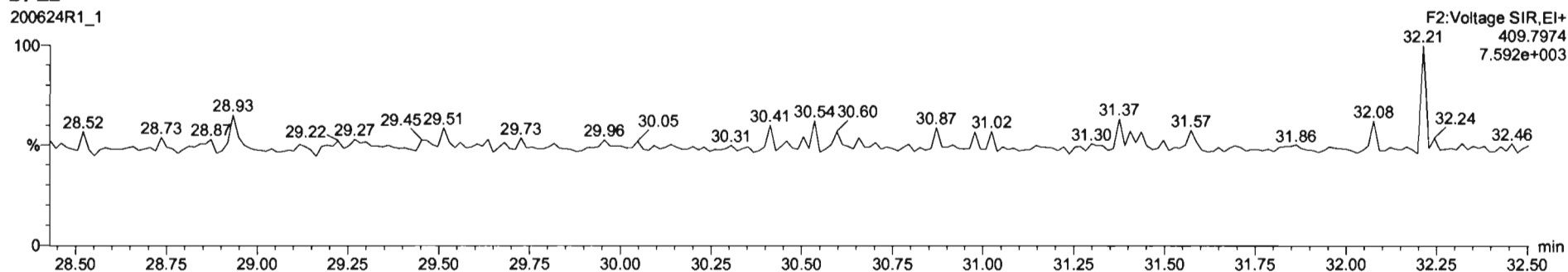
### 1,2,3,7,8-PeCDF



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



### DPE2

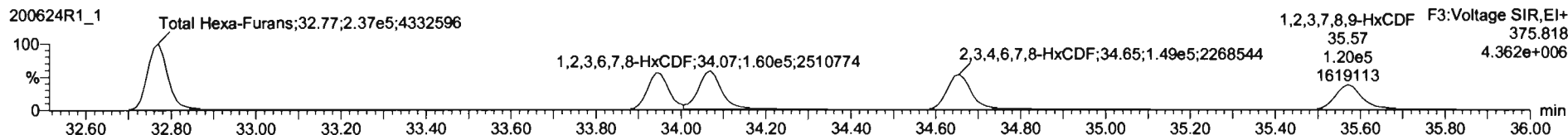
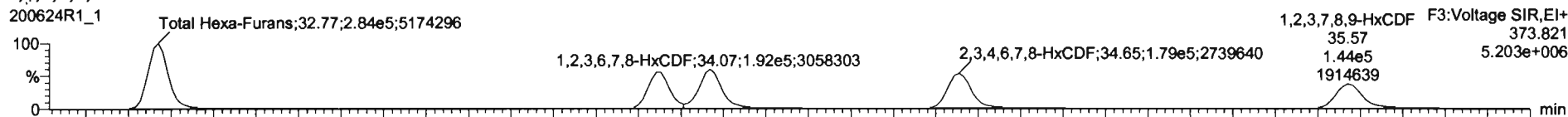


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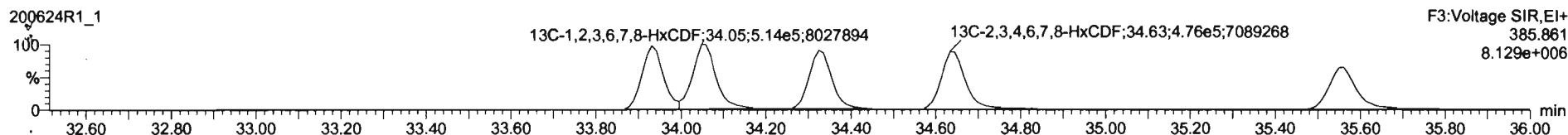
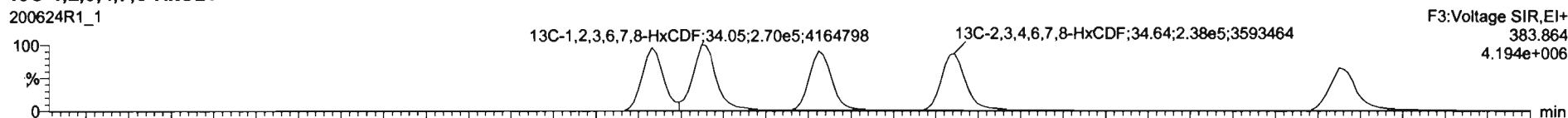
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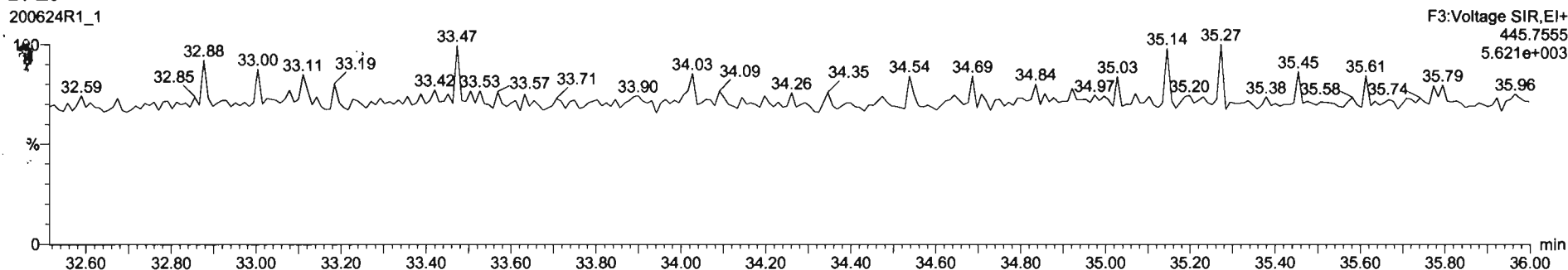
**1,2,3,4,7,8-HxCDF**

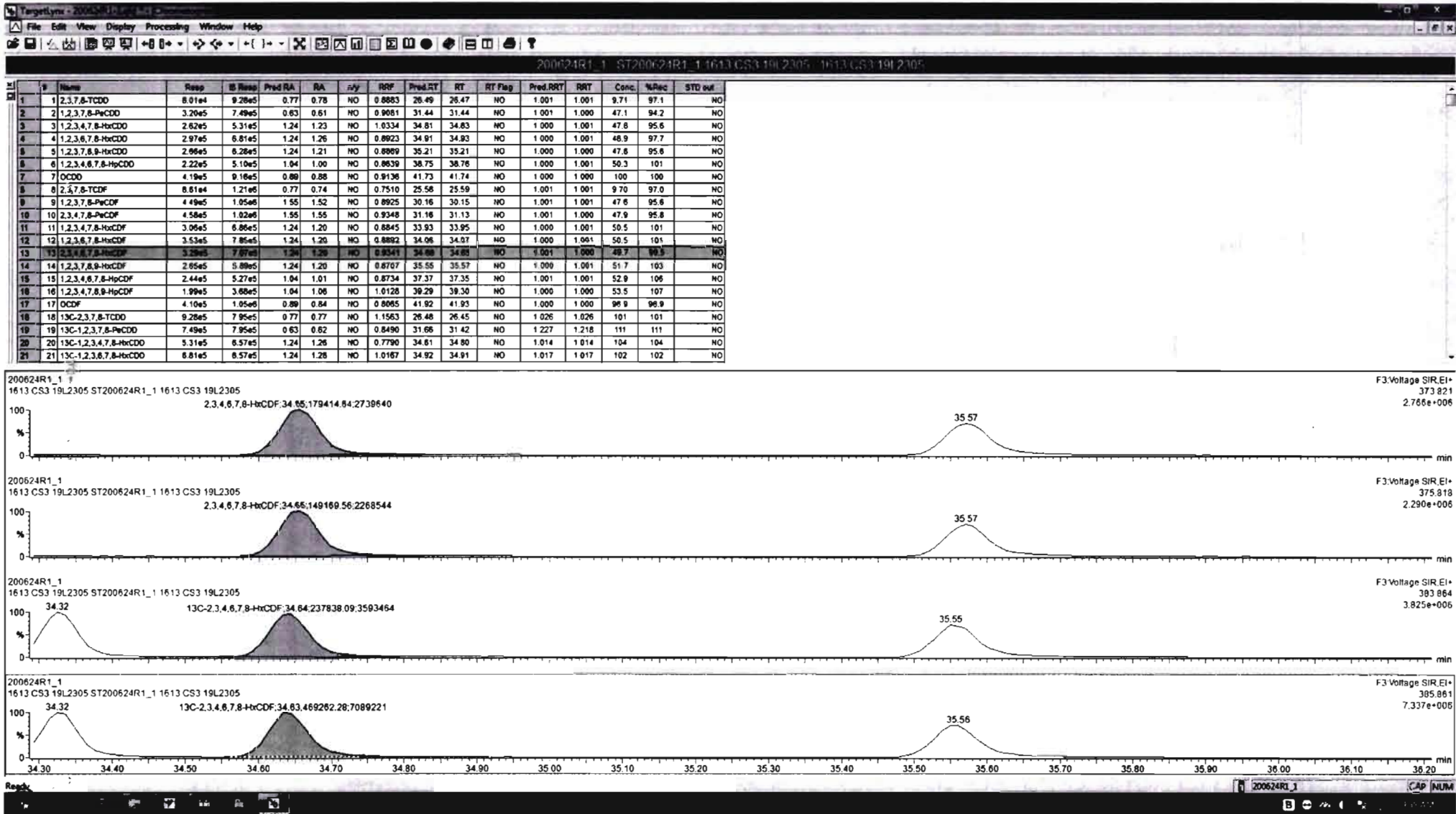


**13C-1,2,3,4,7,8-HxCDF**



**DPE3**





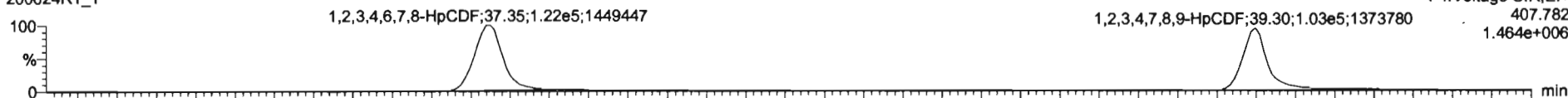
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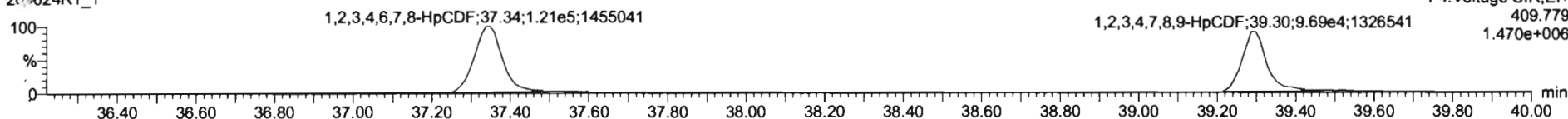
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**1,2,3,4,6,7,8-HpCDF**

200624R1\_1

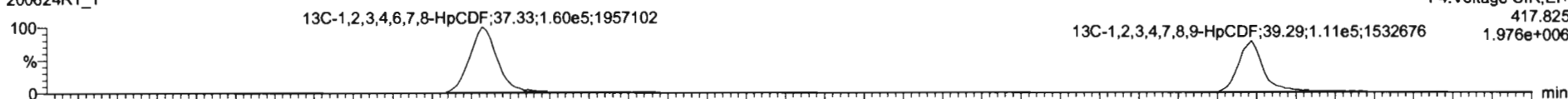


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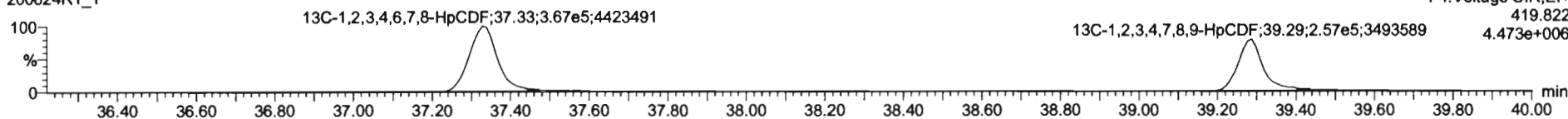


**13C-1,2,3,4,6,7,8-HpCDF**

200624R1\_1

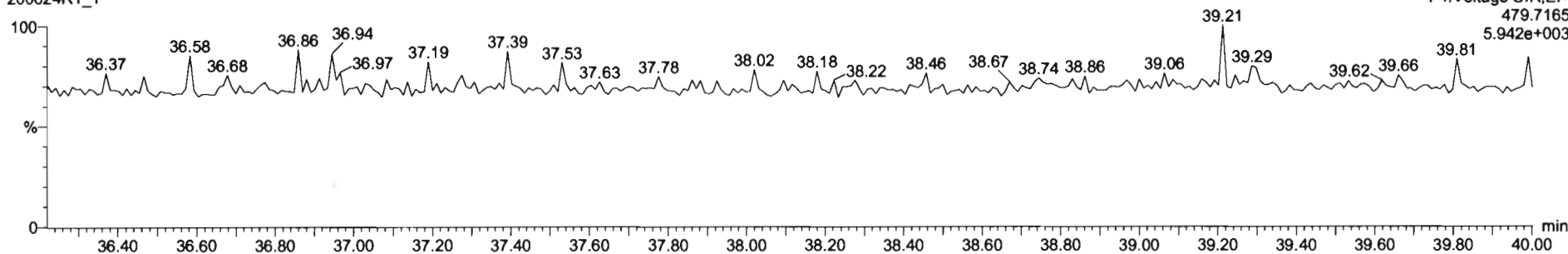


200624R1\_1



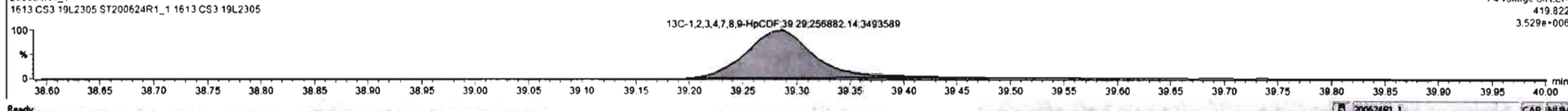
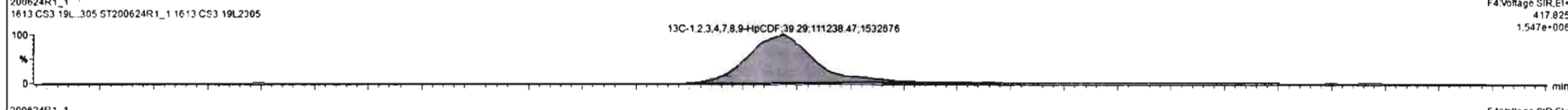
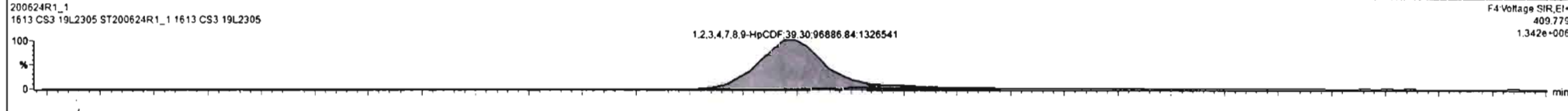
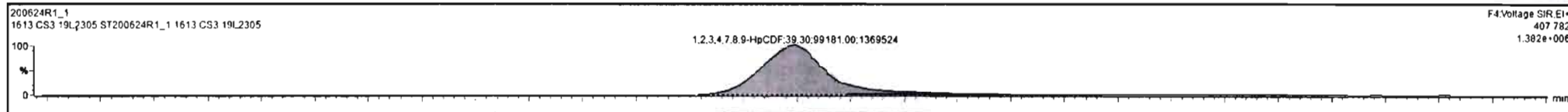
**DPE4**

200624R1\_1





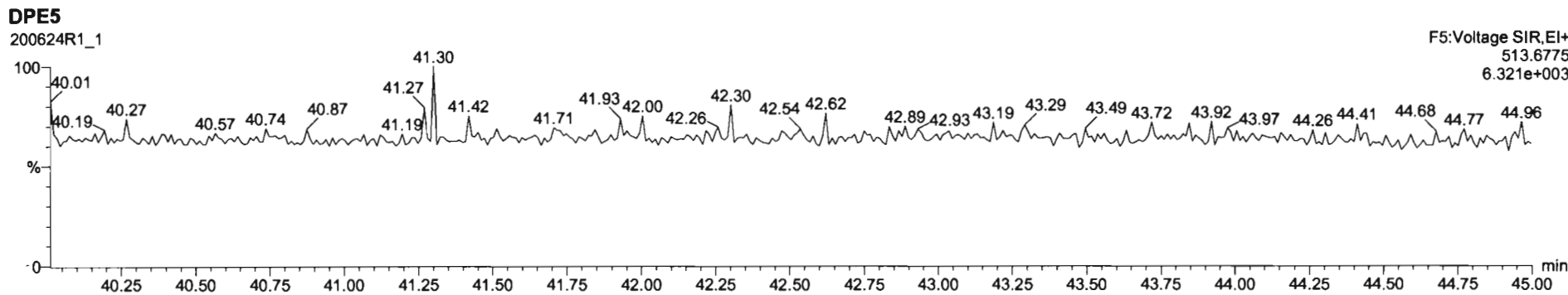
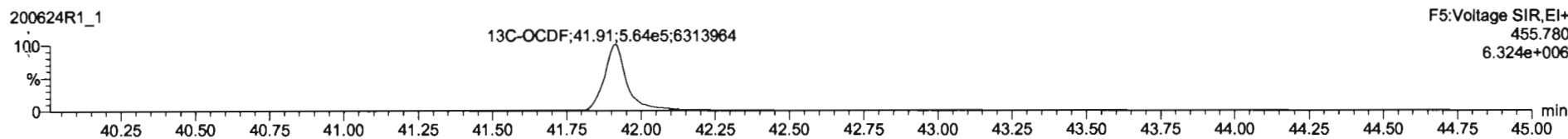
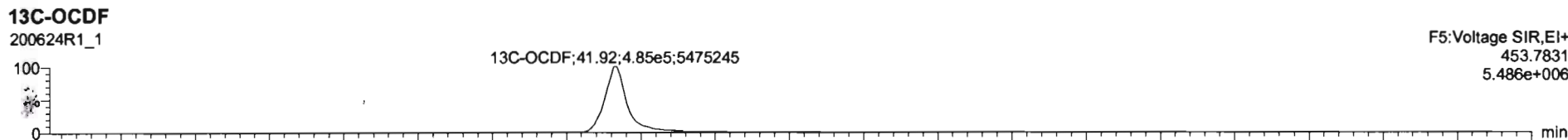
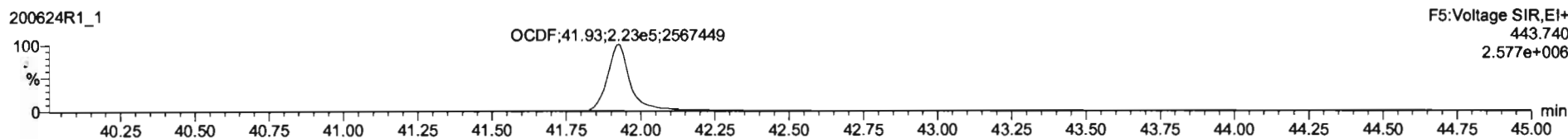
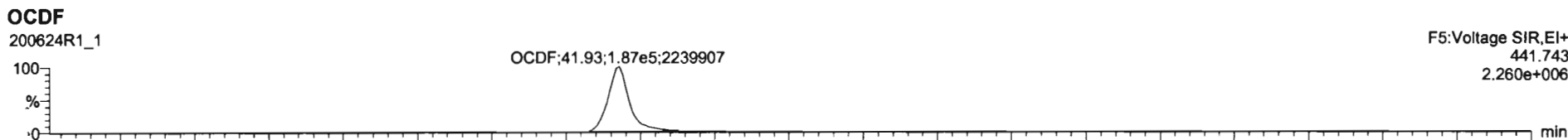
#	Name	Resp	IS Resp	Pred RA	RA	n/y	RF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	2,3,7,8-TCDD	8.01e4	9.28e5	0.77	0.78	NO	0.8863	28.49	28.47	NO	1.001	1.001	9.71	97.1	NO
2	1,2,3,7,8-PeCDD	3.20e5	7.49e5	0.63	0.61	NO	0.9061	31.44	31.44	NO	1.001	1.000	47.1	94.2	NO
3	1,2,3,4,7,8-HxCDD	2.62e5	5.31e5	1.24	1.23	NO	1.0334	34.61	34.83	NO	1.000	1.001	47.8	95.6	NO
4	1,2,3,6,7,8-HxCDD	2.97e5	6.81e5	1.24	1.26	NO	0.8923	34.91	34.93	NO	1.000	1.001	48.9	97.7	NO
5	1,2,3,7,8,9-HxCDD	2.96e5	6.28e5	1.24	1.21	NO	0.8869	35.21	35.21	NO	1.000	1.000	47.8	95.8	NO
6	1,2,3,4,6,7,8-HpCDD	2.22e5	5.10e5	1.04	1.00	NO	0.8639	38.75	38.76	NO	1.000	1.001	50.3	101	NO
7	OCDD	4.19e5	9.16e5	0.89	0.88	NO	0.9138	41.73	41.74	NO	1.000	1.000	100	100	NO
8	2,3,7,8-TCDF	8.61e4	1.21e6	0.77	0.74	NO	0.7510	25.58	25.59	NO	1.001	1.001	9.70	97.0	NO
9	1,2,3,7,8-PeCDF	4.49e5	1.05e6	1.55	1.52	NO	0.8925	30.16	30.15	NO	1.001	1.001	47.8	95.8	NO
10	2,3,4,7,8-PeCDF	4.56e5	1.02e6	1.55	1.55	NO	0.9348	31.16	31.13	NO	1.001	1.000	47.9	95.8	NO
11	1,2,3,4,7,8-HxCDF	3.06e5	6.86e5	1.24	1.20	NO	0.8645	33.93	33.95	NO	1.000	1.001	50.5	101	NO
12	1,2,3,6,7,8-HxCDF	3.53e5	7.85e5	1.24	1.20	NO	0.8892	34.06	34.07	NO	1.000	1.001	50.5	101	NO
13	2,3,4,6,7,8-HxCDF	3.29e5	7.07e5	1.24	1.20	NO	0.9341	34.68	34.65	NO	1.001	1.000	49.7	99.5	NO
14	1,2,3,7,8,9-HxCDF	2.85e5	5.89e5	1.24	1.20	NO	0.8707	35.55	35.57	NO	1.000	1.001	51.7	103	NO
15	1,2,3,4,6,7,8-HpCDF	2.44e5	5.27e5	1.04	1.01	NO	0.8734	37.37	37.35	NO	1.001	1.001	52.9	106	NO
16	1,2,3,4,7,8,9-HpCDF	1.98e5	3.85e5	1.04	1.02	NO	1.0128	39.29	39.39	NO	1.000	1.000	92.8	188	NO
17	OCDF	4.10e5	1.05e6	0.89	0.84	NO	0.8065	41.82	41.93	NO	1.000	1.000	96.9	96.9	NO
18	13C-2,3,7,8-TCDD	9.26e5	7.95e5	0.77	0.77	NO	1.1563	26.48	26.45	NO	1.026	1.026	101	101	NO
19	13C-1,2,3,7,8-PeCDD	7.49e5	7.95e5	0.63	0.62	NO	0.8490	31.66	31.42	NO	1.227	1.218	111	111	NO
20	13C-1,2,3,4,7,8-HxCDD	5.31e5	6.57e5	1.24	1.26	NO	0.7790	34.81	34.80	NO	1.014	1.014	104	104	NO
21	13C-1,2,3,6,7,8-HxCDD	6.81e5	6.57e5	1.24	1.26	NO	1.0167	34.92	34.91	NO	1.017	1.017	102	102	NO



Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 09:52:27 Pacific Daylight Time  
Printed: Wednesday, June 24, 2020 09:52:31 Pacific Daylight Time

Name: 200624R1\_1, Date: 24-Jun-2020, Time: 09:01:15, ID: ST200624R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

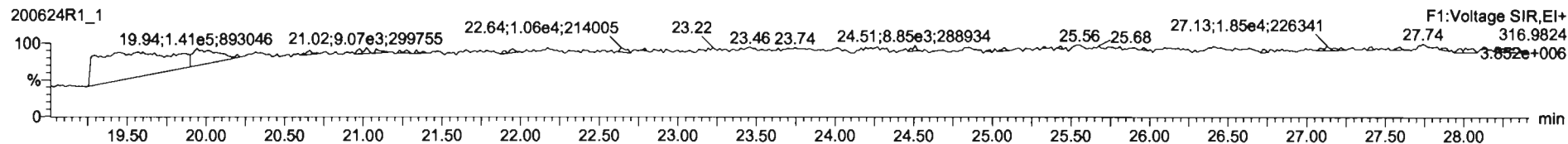


Dataset: Untitled

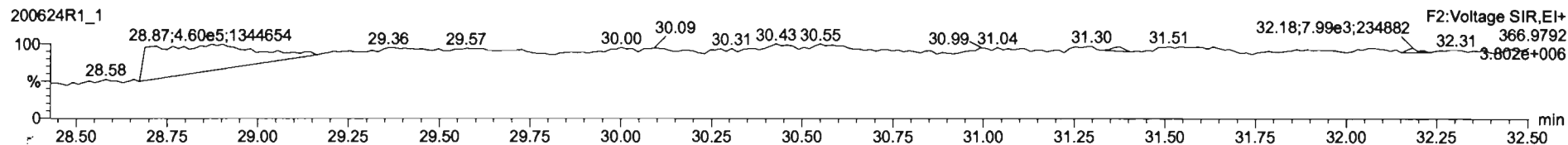
Last Altered: Wednesday, June 24, 2020 09:52:27 Pacific Daylight Time  
Printed: Wednesday, June 24, 2020 09:52:31 Pacific Daylight Time

Name: 200624R1\_1, Date: 24-Jun-2020, Time: 09:01:15, ID: ST200624R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

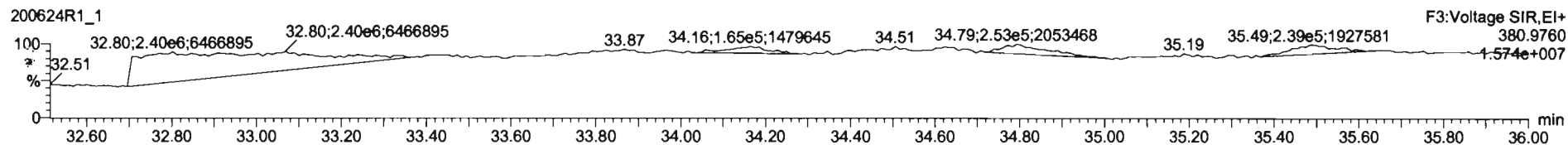
**PFK1**



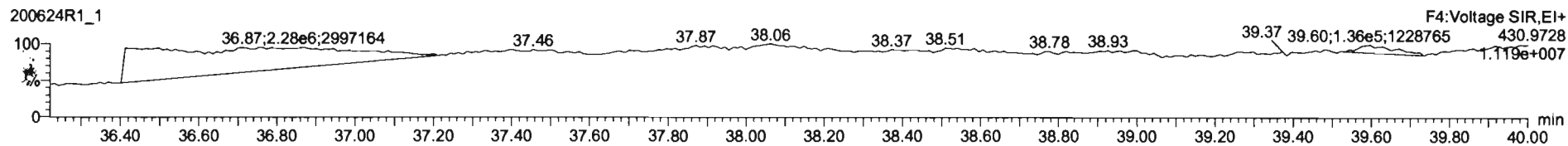
**PFK2**



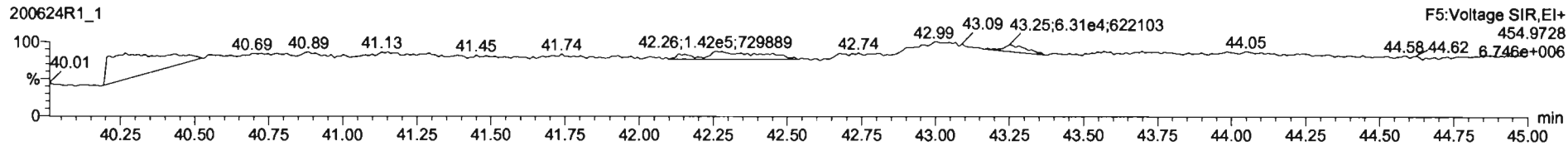
**PFK3**



**PFK4**

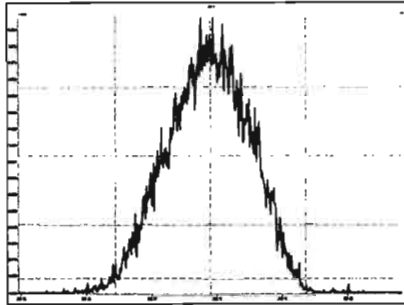


**PFK5**

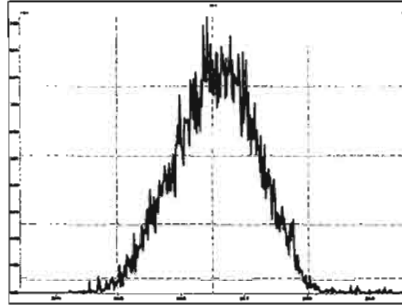


Printed: Wednesday, June 24, 2020 20:04:24 Pacific Daylight Time

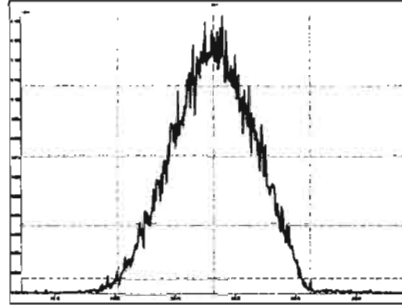
M 292.9824 R 10288



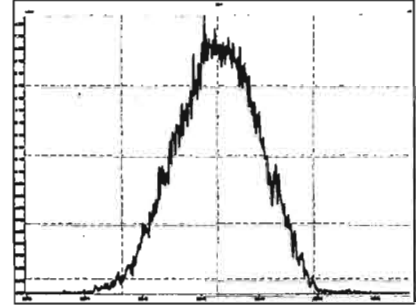
M 304.9824 R 10571



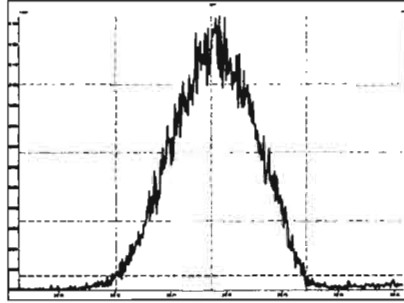
M 318.9792 R 10438



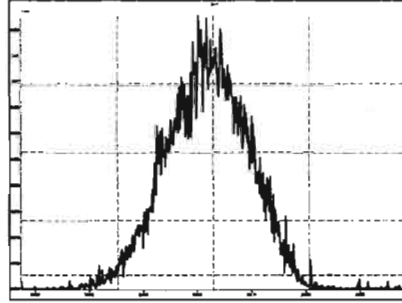
M 330.9792 R 10416



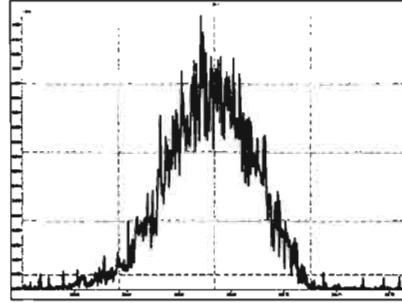
M 342.9792 R 10289



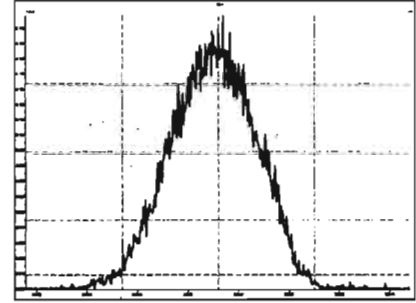
M 354.9792 R 10576



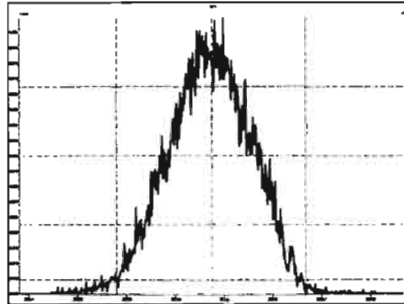
M 366.9792 R 10619



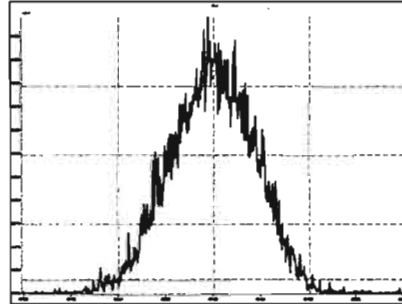
M 380.9760 R 10127



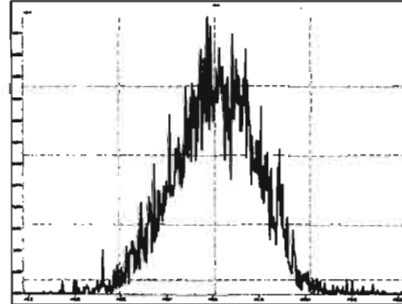
M 392.9760 R 10572



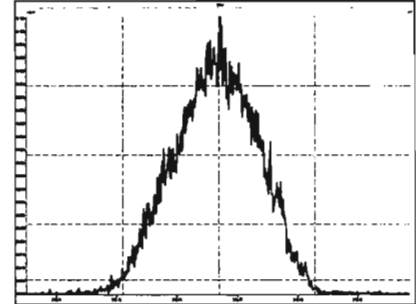
M 404.9760 R 10042



M 416.9760 R 11111



M 318.9792 R 10247

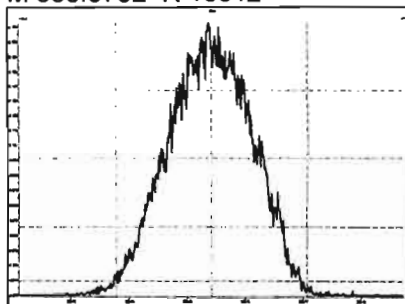


Resolution Check Report

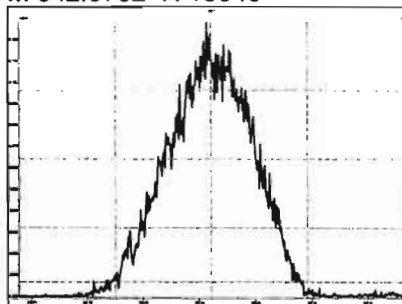
MassLynx 4.1 SCN815

Printed: Wednesday, June 24, 2020 20:04:24 Pacific Daylight Time

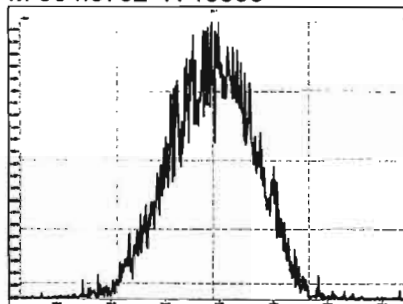
M 330.9792 R 10312



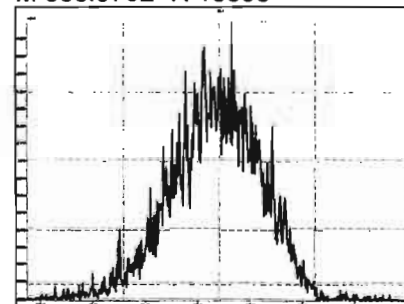
M 342.9792 R 10548



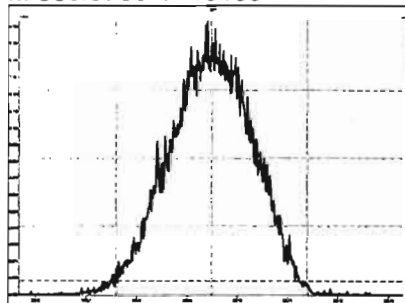
M 354.9792 R 10638



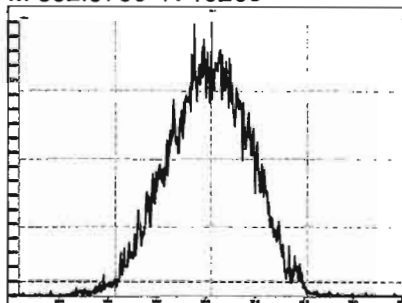
M 366.9792 R 10696



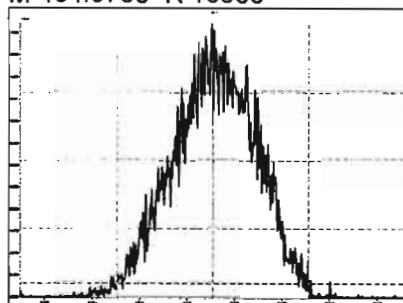
M 380.9760 R 10183



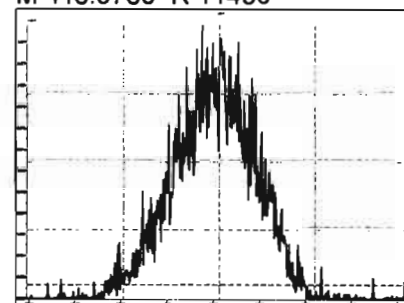
M 392.9760 R 10206



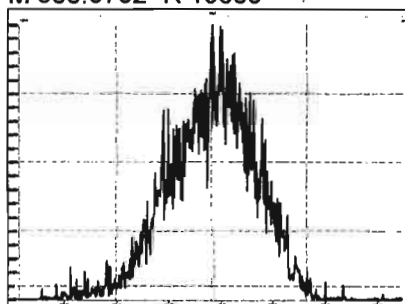
M 404.9760 R 10688



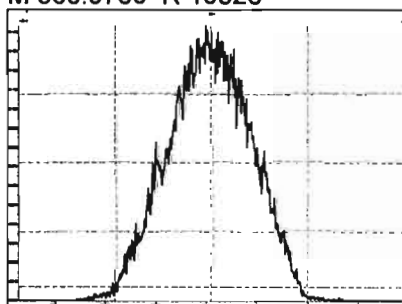
M 416.9760 R 11430



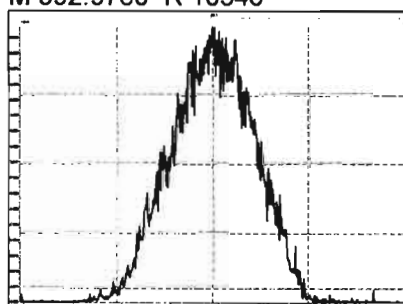
M 366.9792 R 10869



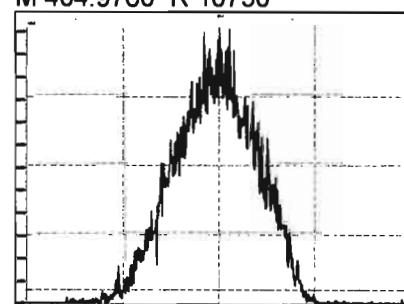
M 380.9760 R 10526



M 392.9760 R 10548

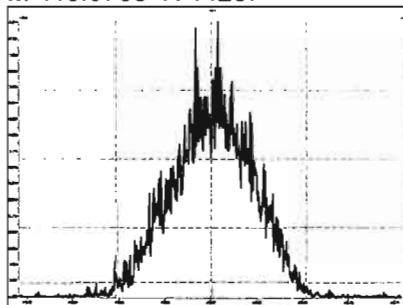


M 404.9760 R 10730

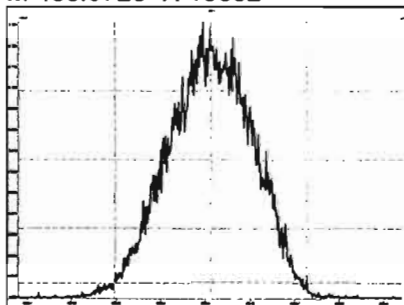


Printed: Wednesday, June 24, 2020 20:04:24 Pacific Daylight Time

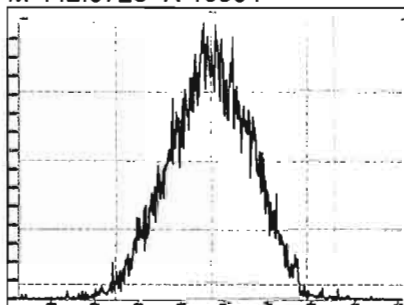
M 416.9760 R 11237



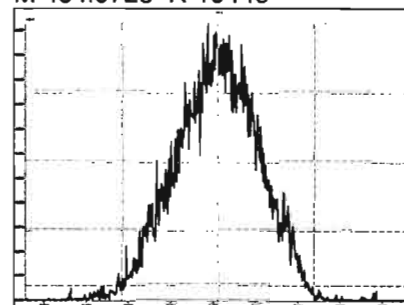
M 430.9728 R 10352



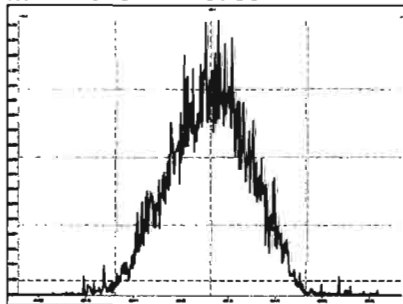
M 442.9728 R 10594



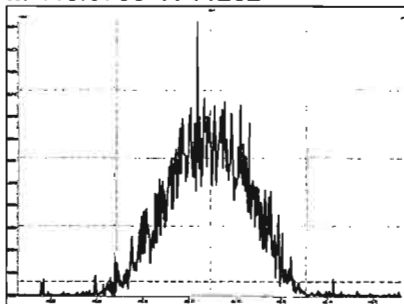
M 454.9728 R 10445



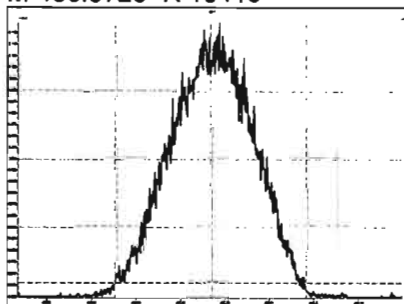
M 404.9760 R 10780



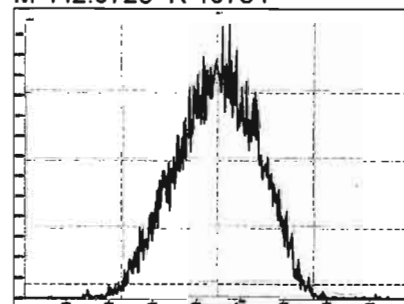
M 416.9760 R 11252



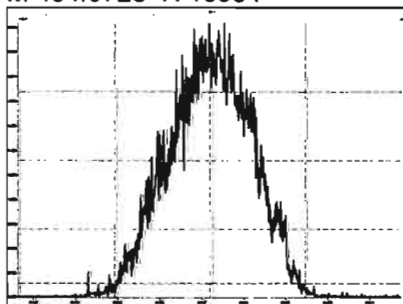
M 430.9728 R 10419



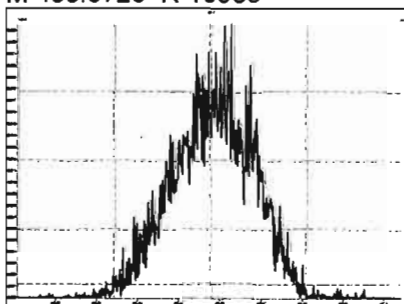
M 442.9728 R 10754



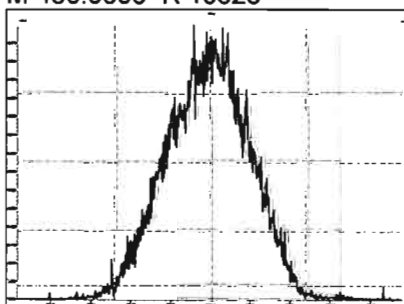
M 454.9728 R 10684



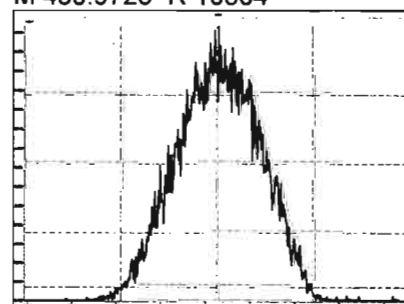
M 466.9728 R 10965



M 480.9696 R 10526

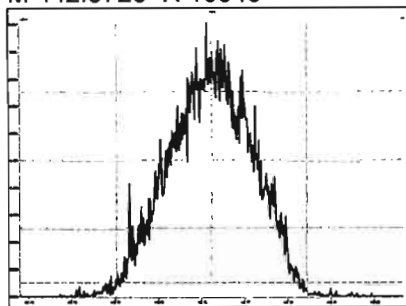


M 430.9728 R 10504

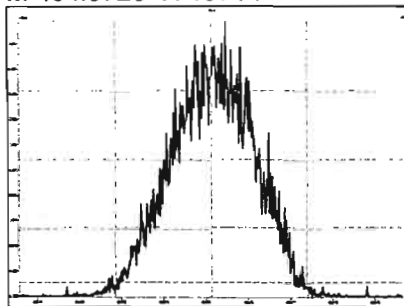


Printed: Wednesday, June 24, 2020 20:04:24 Pacific Daylight Time

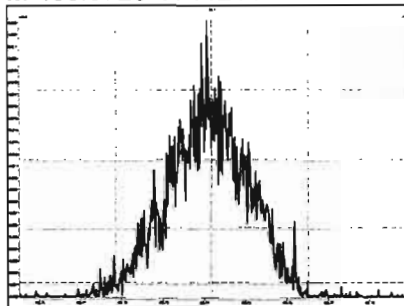
M 442.9728 R 10848



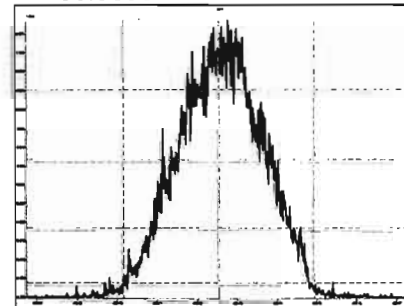
M 454.9728 R 10714



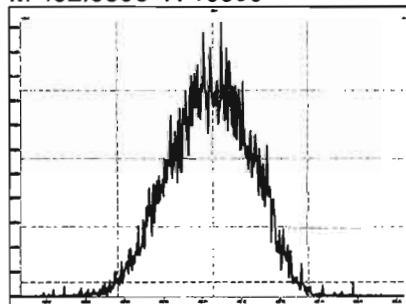
M 466.9728 R 11211



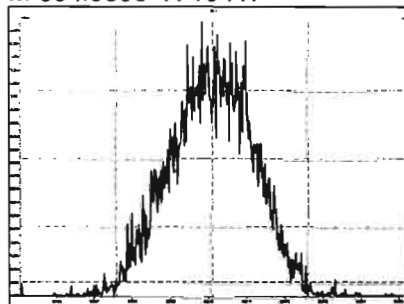
M 480.9696 R 10593



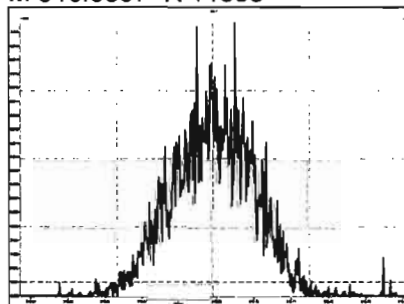
M 492.9696 R 10396



M 504.9696 R 10417



M 516.9697 R 11358



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

II  
**Beg. Calibration ID:** ST200702D1-1

**Reviewed By:** C7 07/03/2020  
*Initials & Date*

**End Calibration ID:** NA

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

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

**Comments:**



Dataset: U:\VG7.PRO\Results\200702D1\200702D1\_2.qld

Last Altered: Friday, July 03, 2020 09:20:39 Pacific Daylight Time  
Printed: Friday, July 03, 2020 09:21:43 Pacific Daylight Time

*DB 7/3/20 CT 07/03/2020*

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 03 Jul 2020 09:08:31  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200702D1\_2, Date: 02-Jul-2020, Time: 16:09:26, ID: ST200702D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	1.93e4	0.77	NO	0.982	1.000	16.968	16.96	1.000	1.001	8.5574	85.6 <i>84-120</i>	0.120	8.56
2	2 13C-2,3,7,8-TCDF	2.30e5	0.77	NO	1.08	1.000	16.954	16.95	1.133	1.136	103.62	104 <i>71-140</i>	0.330	
3	3 13C-1,2,3,4-TCDF	2.05e5	0.78	NO	1.00	1.000	14.920	14.92	1.000	1.000	100.00	100	0.357	

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

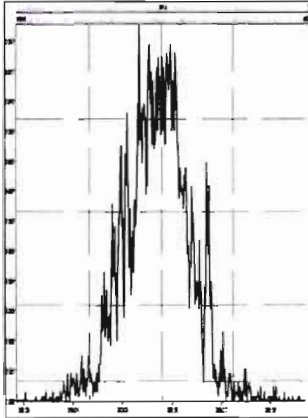
Compound name: 2,3,7,8-TCDF

	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

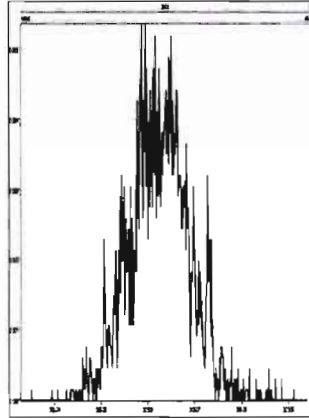
File: Experiment: tcdf\_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, July 02, 2020 15:38:17 Pacific Daylight Time

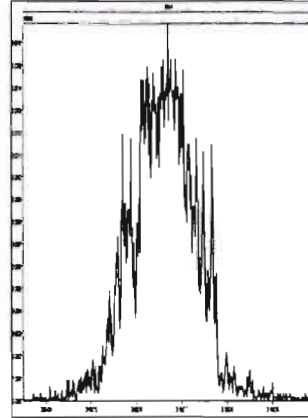
M 292.9824 R 11959



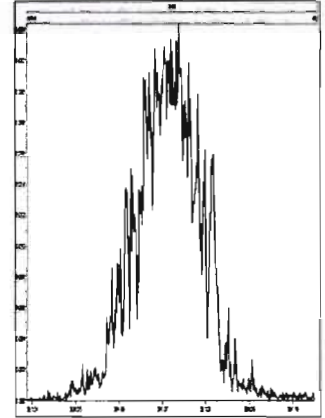
M 304.9824 R 12190



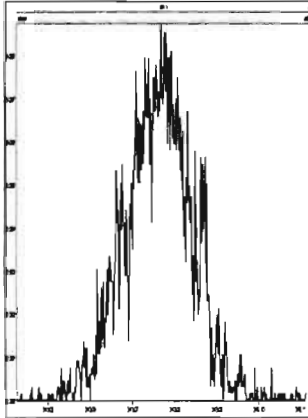
M 318.9792 R 11682



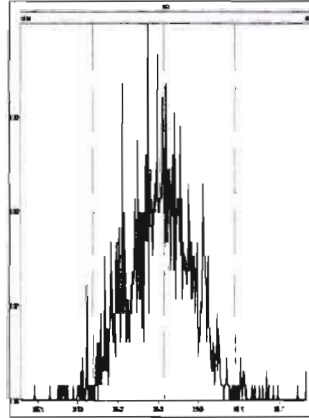
M 330.9792 R 11011



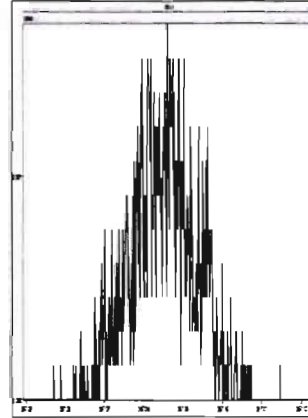
M 342.9792 R 10966



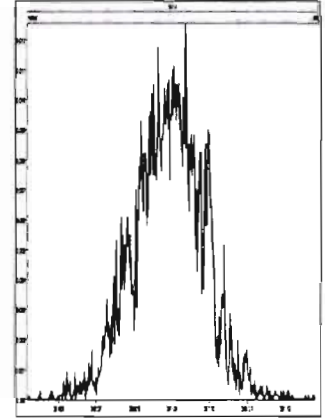
M 354.9792 R 11111

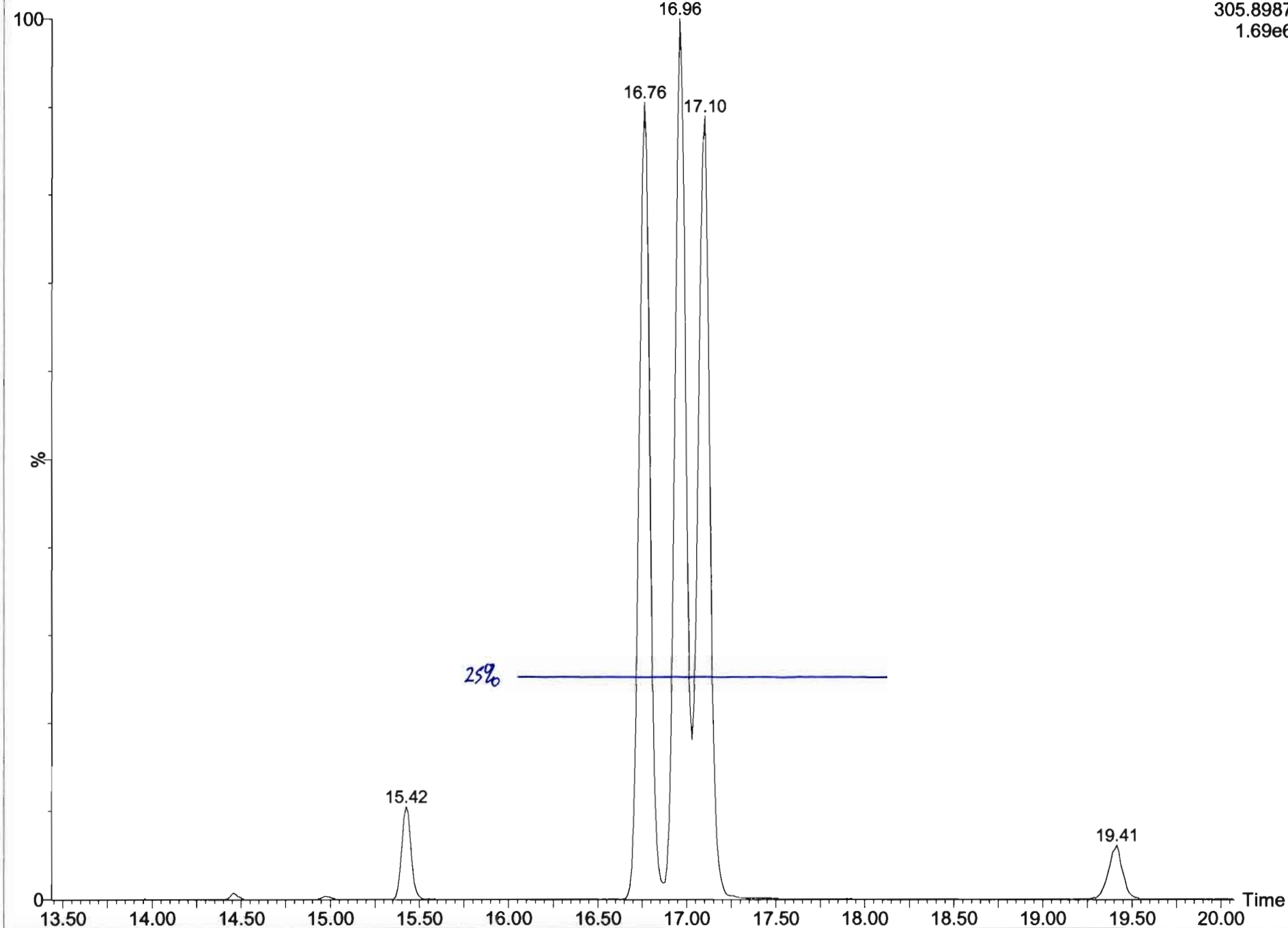


M 366.9792 R 11109



M 380.9760 R 10962





Dataset: U:\VG7.PRO\Results\200702D1\200702D1\_1.qld

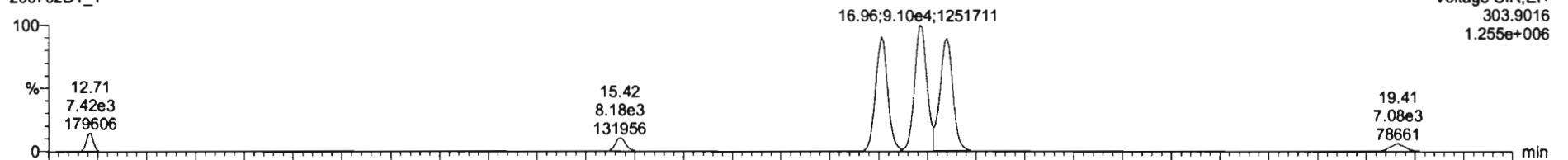
Last Altered: Friday, July 03, 2020 09:19:25 Pacific Daylight Time  
Printed: Friday, July 03, 2020 09:20:33 Pacific Daylight Time

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

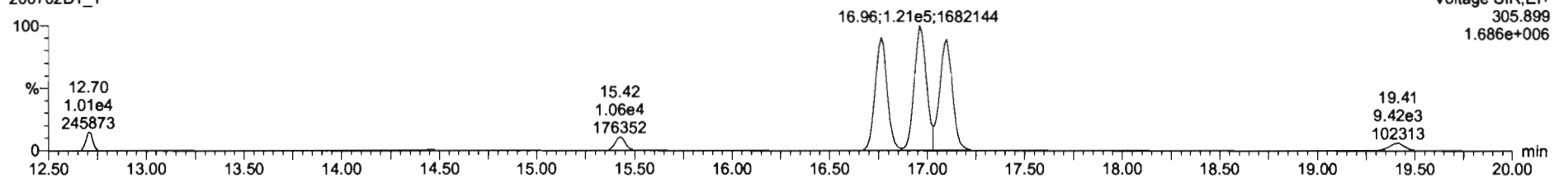
Name: 200702D1\_1, Date: 02-Jul-2020, Time: 15:39:16, ID: CP200702D1-1 DB-225 CPSM, Description: DB-225 CPSM

2,3,7,8-TCDF

200702D1\_1

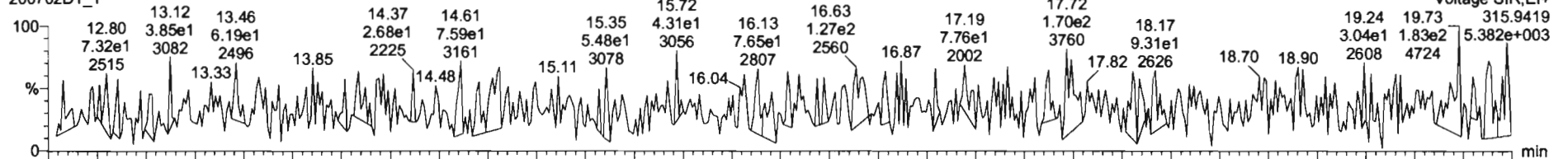


200702D1\_1

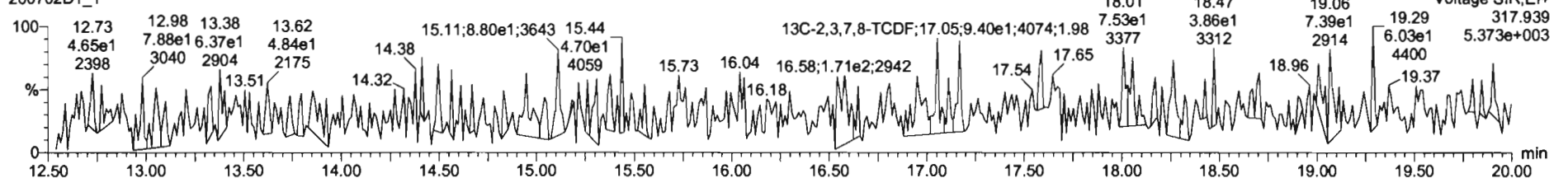


13C-2,3,7,8-TCDF

200702D1\_1



200702D1\_1

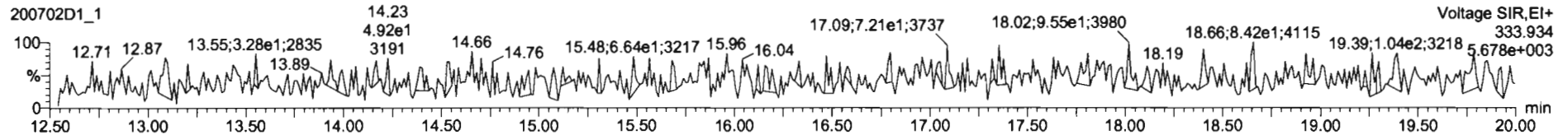
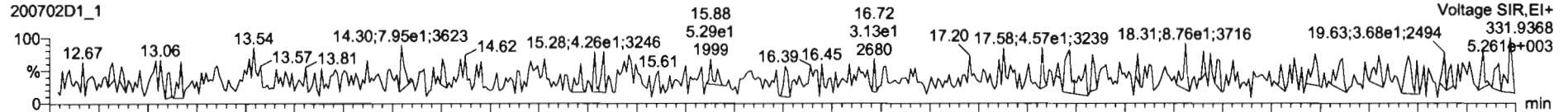


Dataset: U:\VG7.PRO\Results\200702D1\200702D1\_1.qld

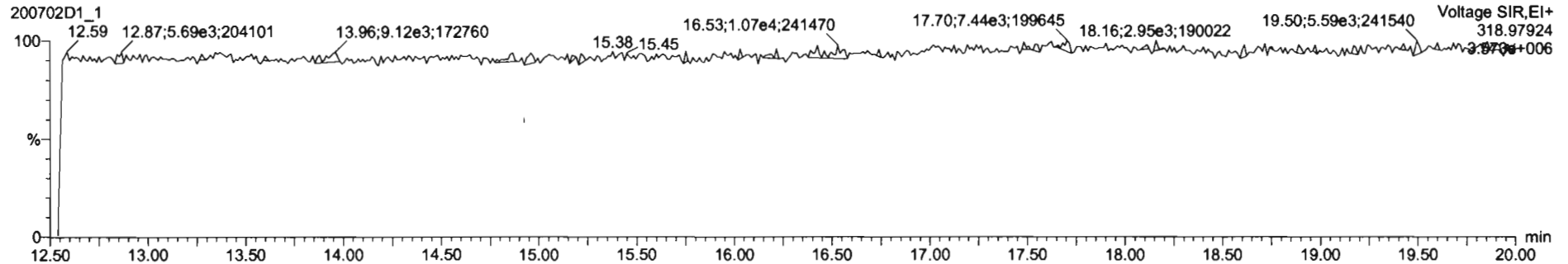
Last Altered: Friday, July 03, 2020 09:19:25 Pacific Daylight Time  
Printed: Friday, July 03, 2020 09:20:33 Pacific Daylight Time

Name: 200702D1\_1, Date: 02-Jul-2020, Time: 15:39:16, ID: CP200702D1-1 DB-225 CPSM, Description: DB-225 CPSM

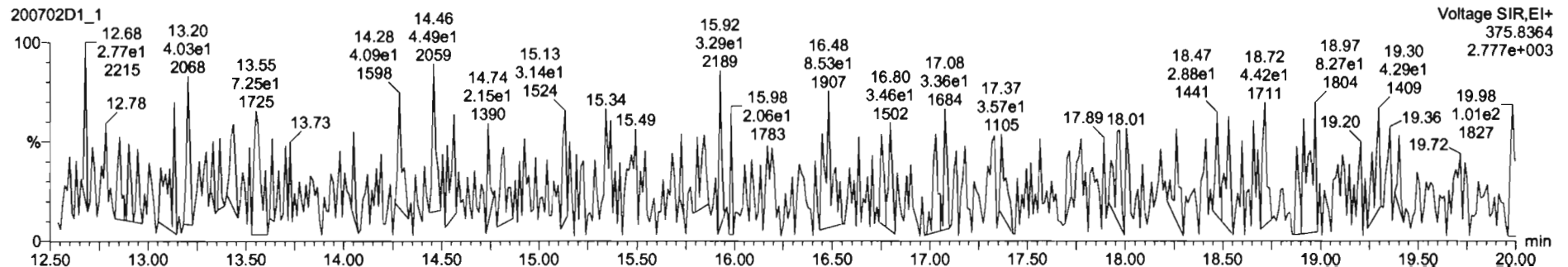
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200702D1\200702D1\_2.qld

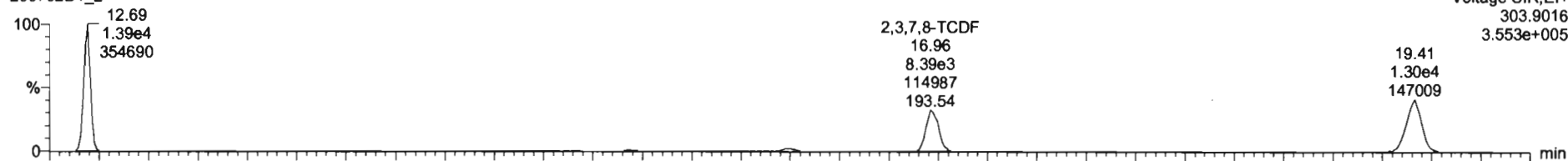
Last Altered: Friday, July 03, 2020 09:20:39 Pacific Daylight Time  
Printed: Friday, July 03, 2020 09:22:00 Pacific Daylight Time

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

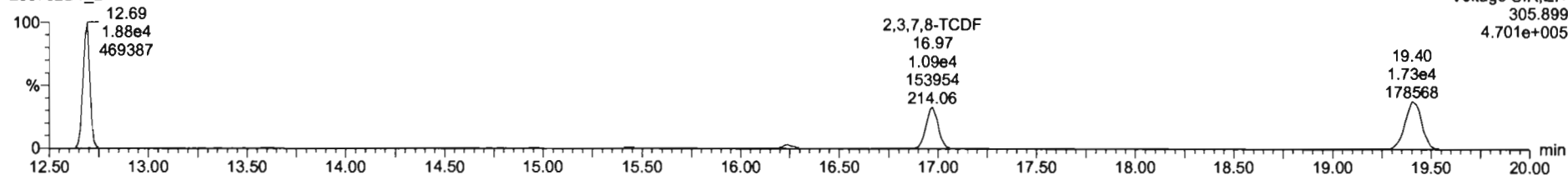
Name: 200702D1\_2, Date: 02-Jul-2020, Time: 16:09:26, ID: ST200702D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200702D1\_2

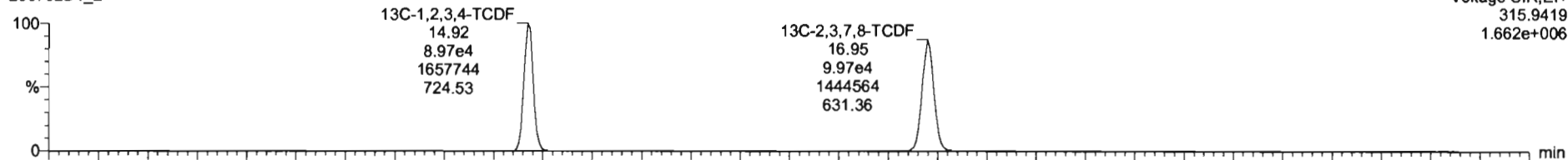


200702D1\_2

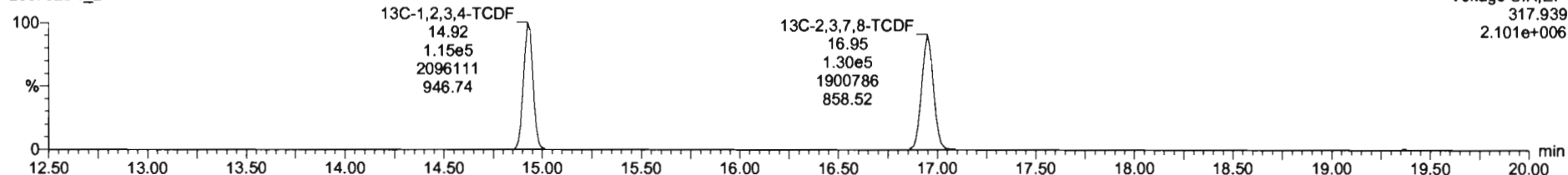


13C-2,3,7,8-TCDF

200702D1\_2



200702D1\_2



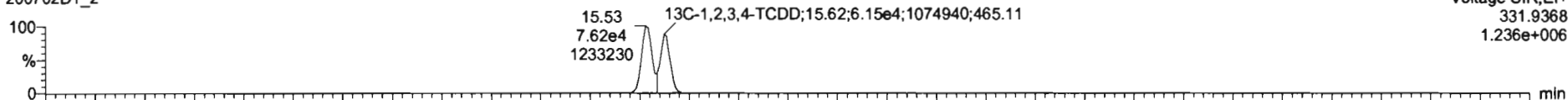
Dataset: U:\VG7.PRO\Results\200702D1\200702D1\_2.qld

Last Altered: Friday, July 03, 2020 09:20:39 Pacific Daylight Time  
Printed: Friday, July 03, 2020 09:22:00 Pacific Daylight Time

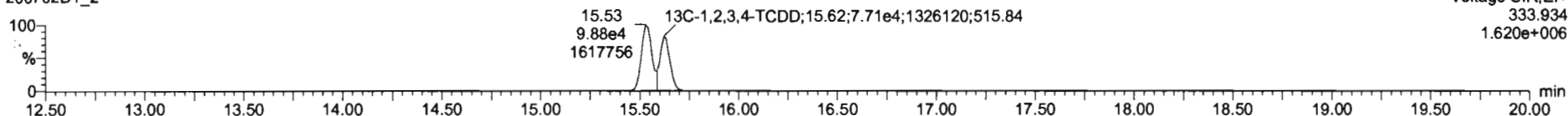
Name: 200702D1\_2, Date: 02-Jul-2020, Time: 16:09:26, ID: ST200702D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200702D1\_2

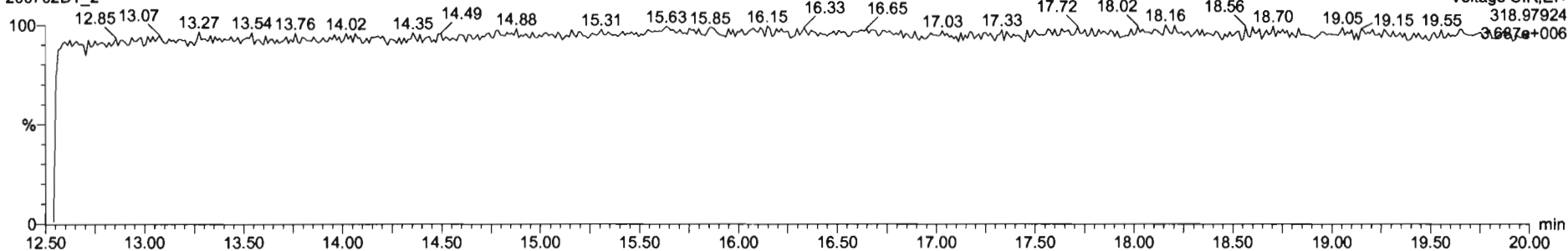


200702D1\_2



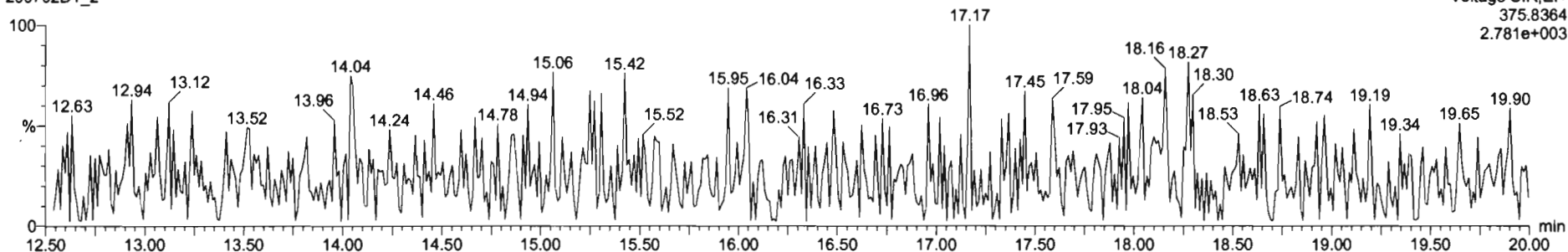
**PFK1**

200702D1\_2



**DPE1**

200702D1\_2

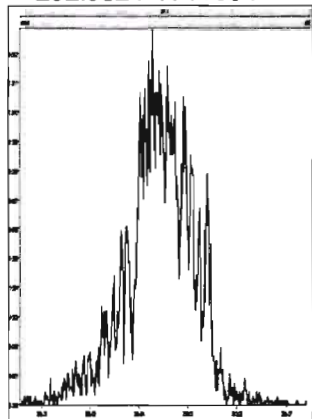




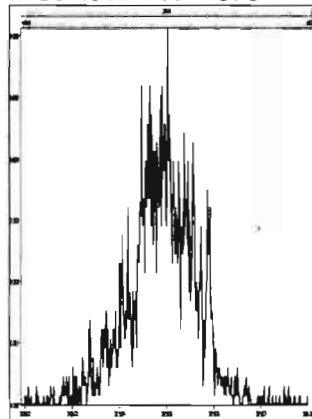
File: Experiment: tcdf\_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, July 02, 2020 23:32:40 Pacific Daylight Time

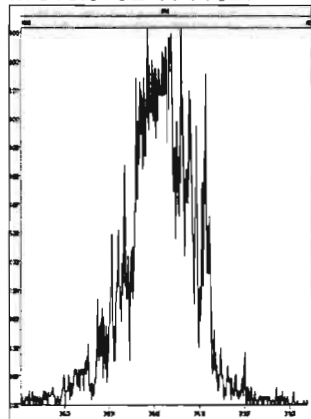
M 292.9824 R 11064



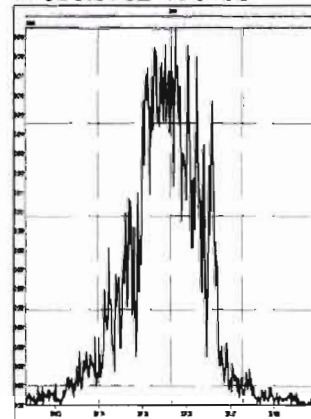
M 304.9824 R 11575



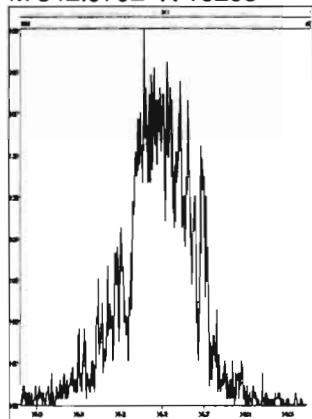
M 318.9792 R 11627



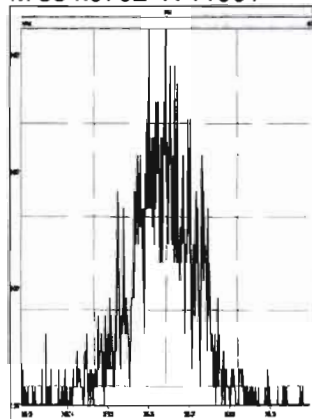
M 330.9792 R 9193



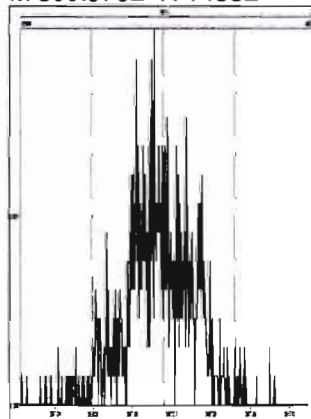
M 342.9792 R 10205



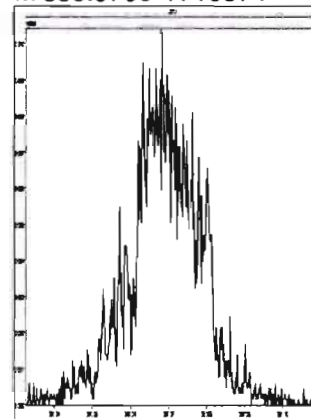
M 354.9792 R 11961



M 366.9792 R 14532



M 380.9760 R 10374



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

II  
**Beg. Calibration ID:** ST200703D1-1

**Reviewed By:** GPB 07/06/2020  
*Initials & Date*

**End Calibration ID:** NA

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

**Mass resolution ≥**

5k    6-8K    8K    10K  
 1614   1699   429   1613/1668/8280

**Intergrated peaks display correctly?**

**GC Break <20%**

NA

**8280 CS1 End Standard:**

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

**Comments:**

<u>Beg.</u>	<u>End</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/> NA

NA

Dataset: U:\VG7.PRO\Results\200703D1\200703D1\_2.qld

Last Altered: Friday, July 03, 2020 14:42:31 Pacific Daylight Time

Printed: Friday, July 03, 2020 14:44:15 Pacific Daylight Time

DB 7/3/20

GRB 07/06/2020

Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52

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

Name: 200703D1\_2, Date: 03-Jul-2020, Time: 12:14:41, ID: ST200703D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1	2,3,7,8-TCDF	1.79e4	0.78	NO	0.982	1.000	16.925	16.96	1.000	1.002	8.5911	85.924-120	0.159	8.59
2	13C-2,3,7,8-TCDF	2.12e5	0.77	NO	1.08	1.000	16.883	16.92	1.133	1.135	101.47	101.71-140	0.404	
3	13C-1,2,3,4-TCDF	1.93e5	0.77	NO	1.00	1.000	15.060	14.91	1.000	1.000	100.00	100	0.438	

Dataset: Untitled

Last Altered: Friday, July 03, 2020 16:34:19 Pacific Daylight Time  
Printed: Friday, July 03, 2020 16:34:33 Pacific Daylight Time

Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613\tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

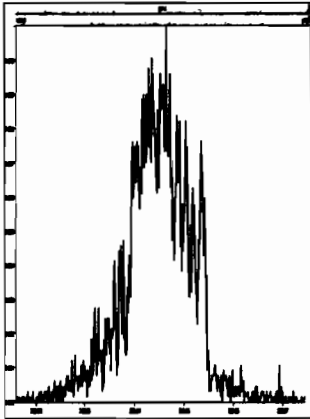
Compound name: 2,3,7,8-TCDF

200703D1_1	CP200703D1-1 DB-225 CPSM	03-Jul-20	11:44:32
200703D1_2	ST200703D1-1 1613 CS3 19L2305	03-Jul-20	12:14:41
200703D1_3	SOLVENT BLANK	03-Jul-20	12:46:24
200703D1_4	2001033-05RE1 PDI-089SC-B-02-05-200509 ...	03-Jul-20	13:22:46
200703D1_5	2001073-02RE1 SO-A04-0.0-0.5 14.29	03-Jul-20	13:52:51
200703D1_6	2001073-03RE1 SO-A05-0.0-0.5 14.64	03-Jul-20	14:24:33
200703D1_7	2001073-04RE1 SO-A03-0.0-0.5 14.34	03-Jul-20	14:56:15
200703D1_8	2001073-05RE1 SO-A02-0.0-0.5 14.74	03-Jul-20	15:28:02
200703D1_9	2001073-06RE1 SO-A01-0.0-0.5 14.41	03-Jul-20	15:59:42

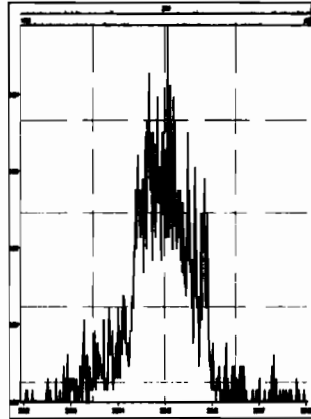
File: Experiment: tcdf\_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, July 03, 2020 11:43:43 Pacific Daylight Time

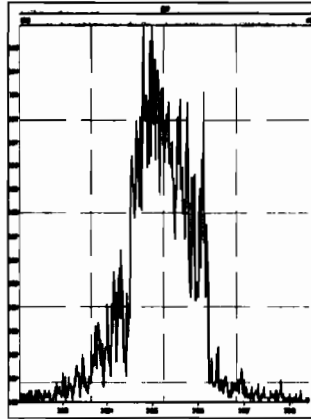
M 292.9824 R 11851



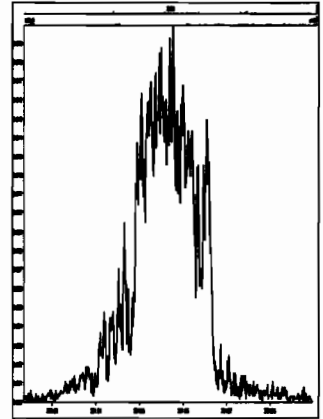
M 304.9824 R 11364



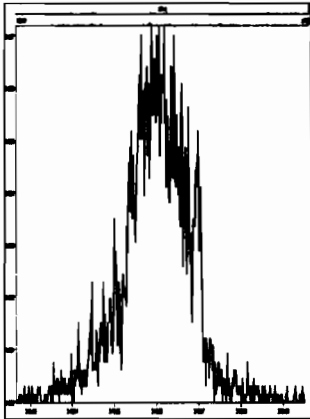
M 318.9792 R 11110



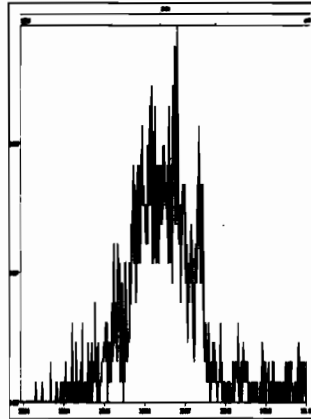
M 330.9792 R 11631



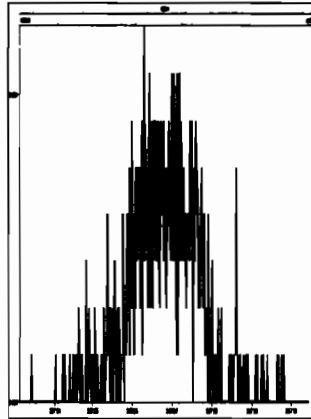
M 342.9792 R 11207



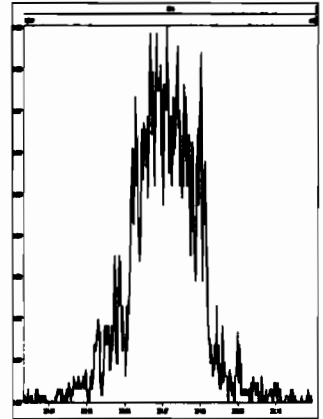
M 354.9792 R 16778



M 366.9792 R 13295

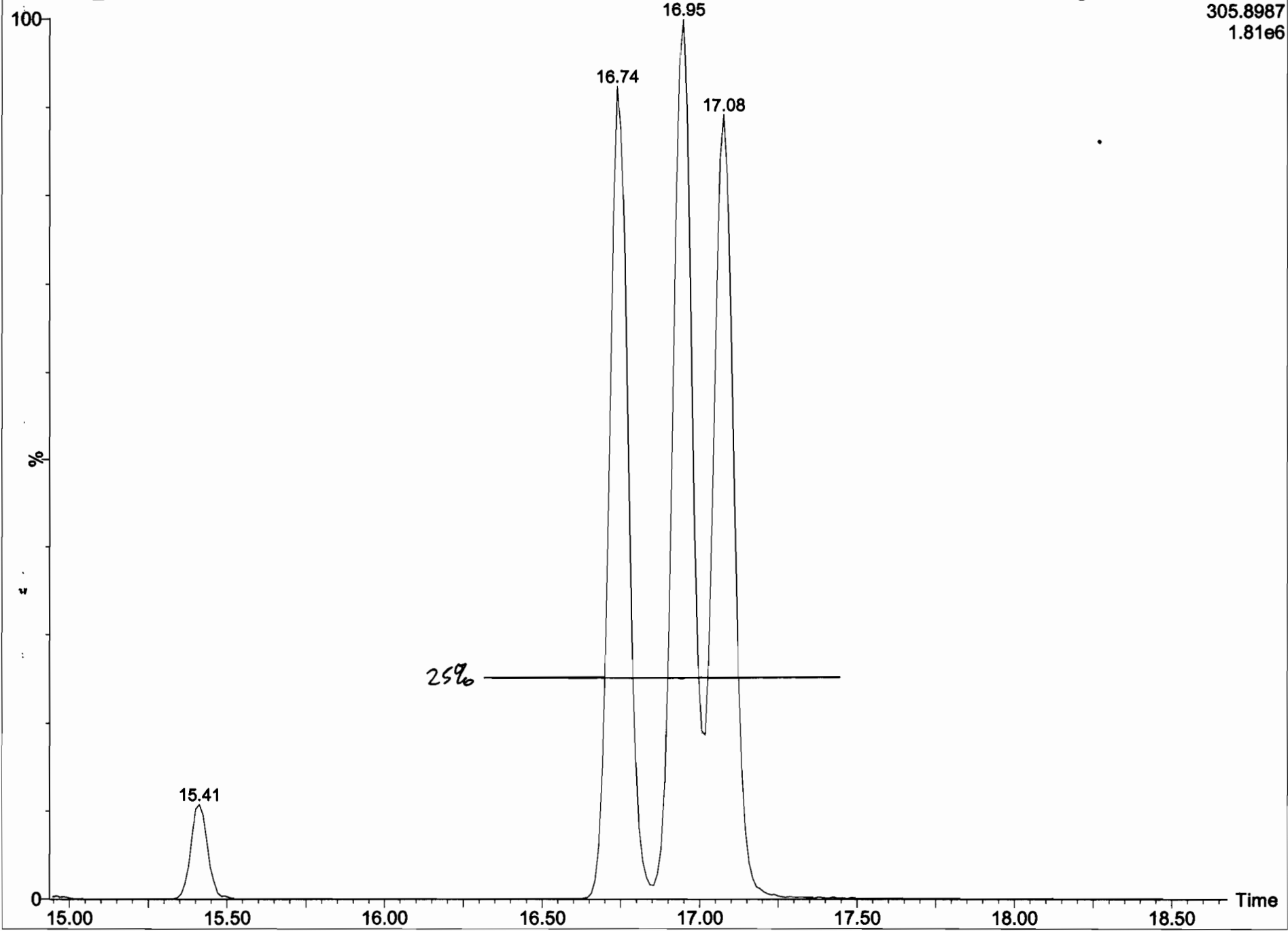


M 380.9760 R 11522



200703D1\_1

Voltage SIR 12 Channels EI+  
305.8987  
1.81e6



Dataset: U:\VG7.PRO\Results\200703D1\200703D1\_1.qld

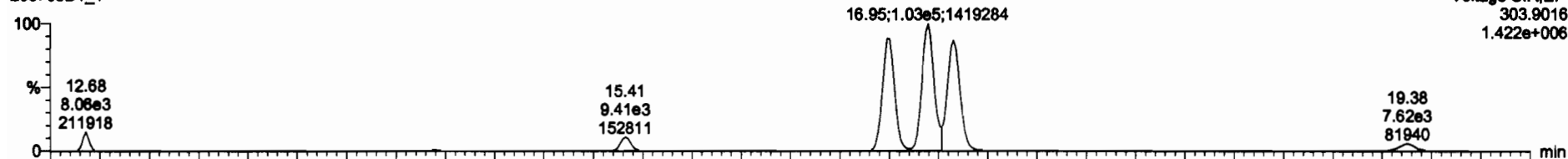
Last Altered: Friday, July 03, 2020 14:41:08 Pacific Daylight Time  
Printed: Friday, July 03, 2020 14:42:20 Pacific Daylight Time

Method: U:\VG7.PRO\MethDB\lctcdf.mdb 03 Jul 2020 14:40:52  
Calibration: U:\VG7.PRO\CurveDB\lctcdf-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

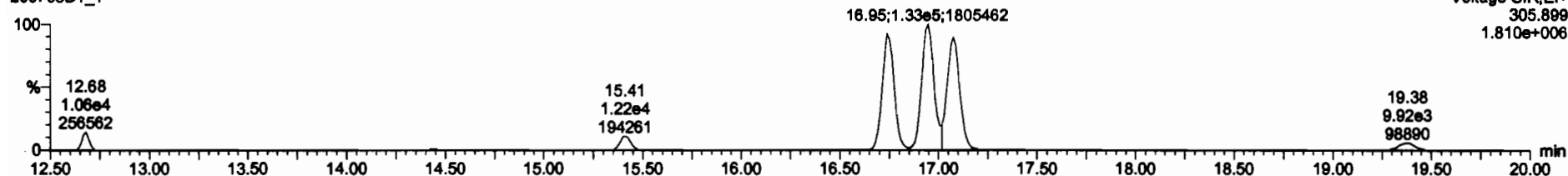
Name: 200703D1\_1, Date: 03-Jul-2020, Time: 11:44:32, ID: CP200703D1-1 DB-225 CPSM, Description: DB-225 CPSM

2,3,7,8-TCDF

200703D1\_1

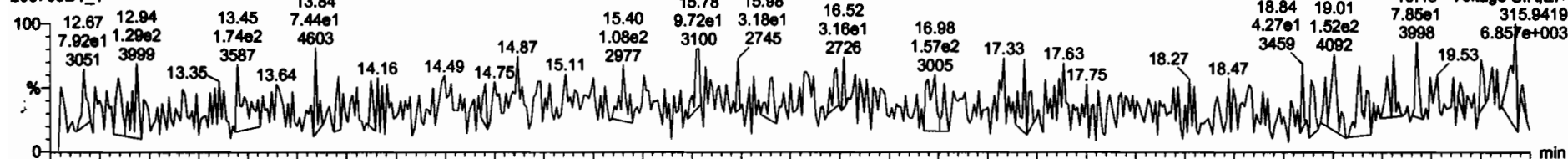


200703D1\_1

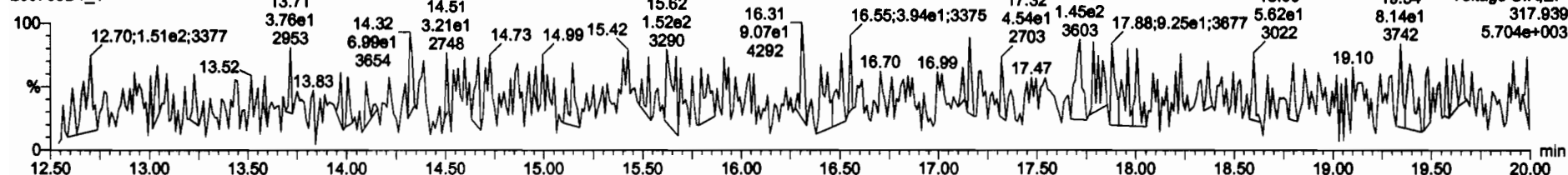


13C-2,3,7,8-TCDF

200703D1\_1



200703D1\_1

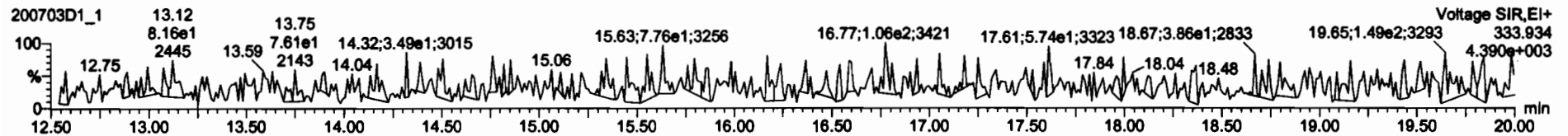
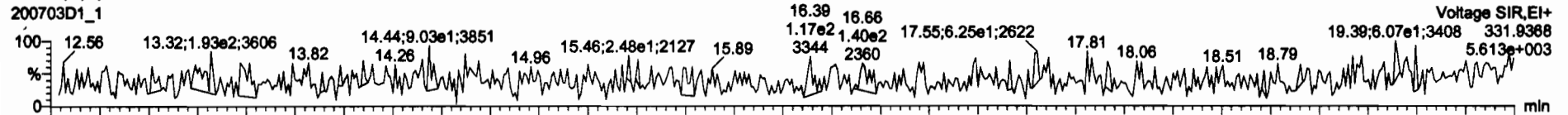


Dataset: U:\VG7.PRO\Results\200703D1\200703D1\_1.qld

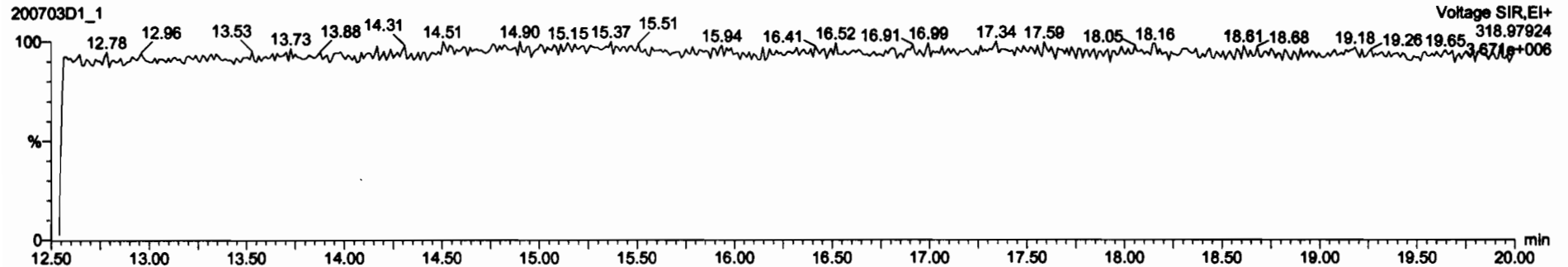
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Printed: Friday, July 03, 2020 14:42:20 Pacific Daylight Time

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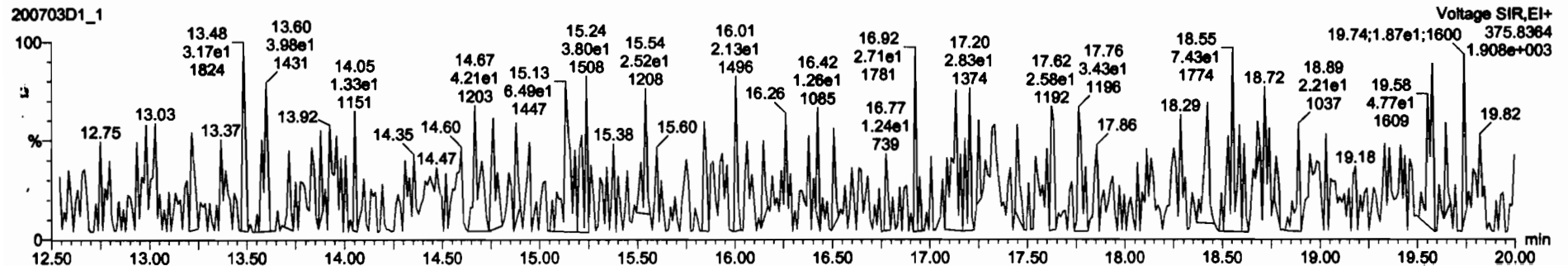
13C-1,2,3,4-TCDD



PFK1



DPE1





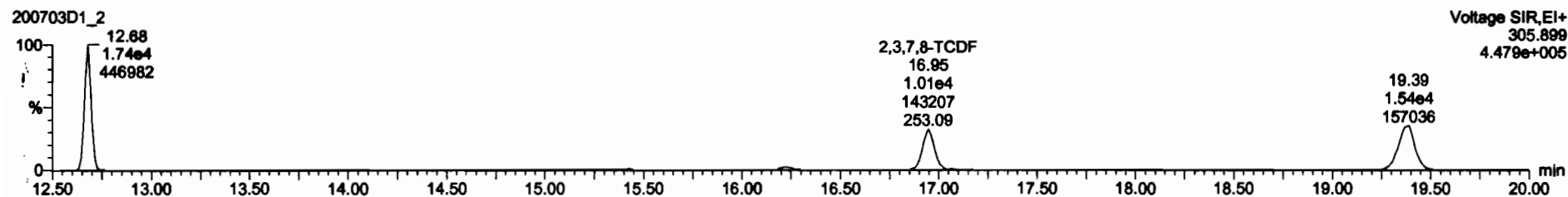
Dataset: U:\VG7.PRO\Results\200703D1\200703D1\_2.qld

Last Altered: Friday, July 03, 2020 14:42:31 Pacific Daylight Time  
Printed: Friday, July 03, 2020 14:43:47 Pacific Daylight Time

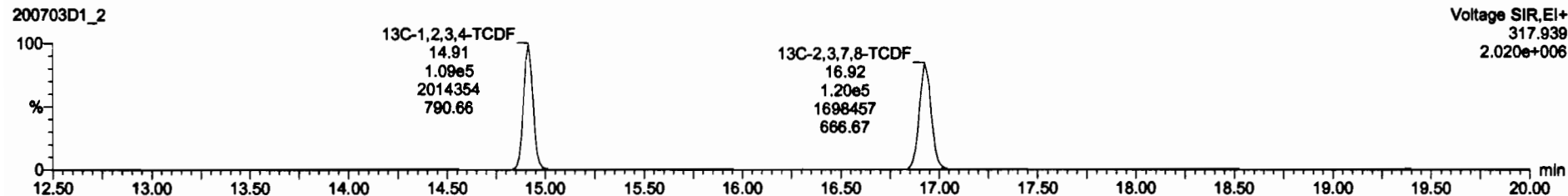
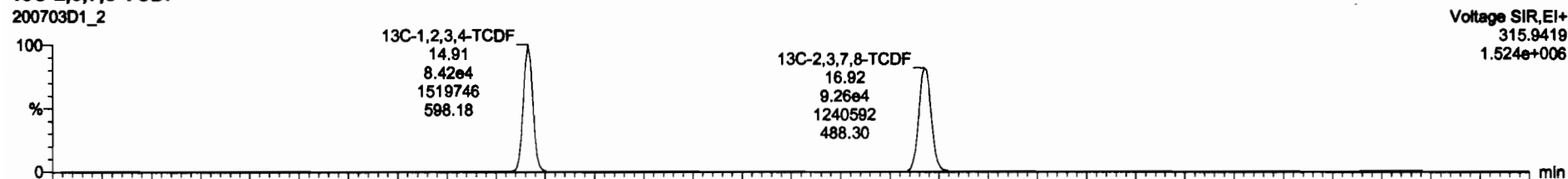
Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200703D1\_2, Date: 03-Jul-2020, Time: 12:14:41, ID: ST200703D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

### 2,3,7,8-TCDF



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



Dataset: U:\VG7.PRO\Results\200703D1\200703D1\_2.qld

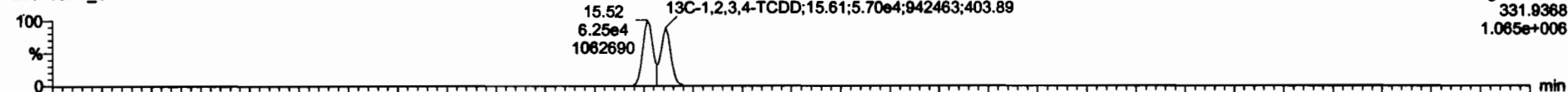
Last Altered: Friday, July 03, 2020 14:42:31 Pacific Daylight Time

Printed: Friday, July 03, 2020 14:43:47 Pacific Daylight Time

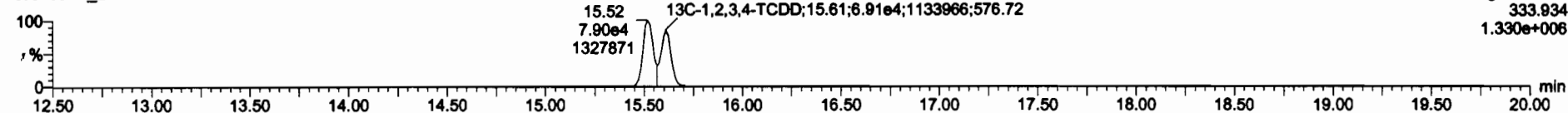
Name: 200703D1\_2, Date: 03-Jul-2020, Time: 12:14:41, ID: ST200703D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200703D1\_2

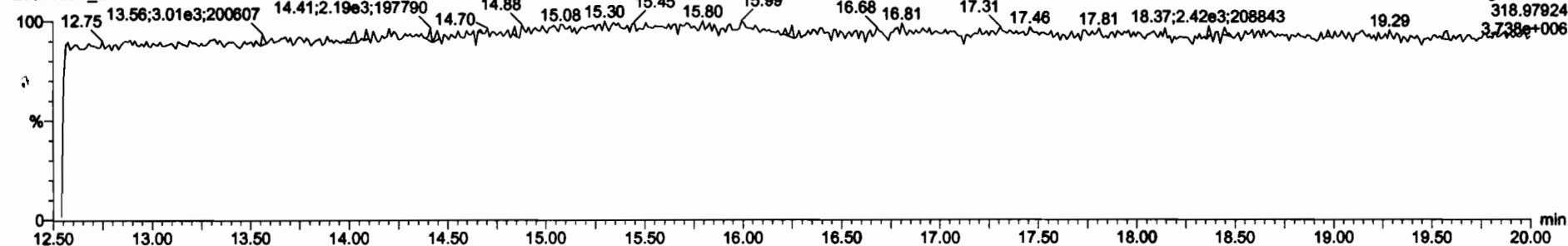


200703D1\_2



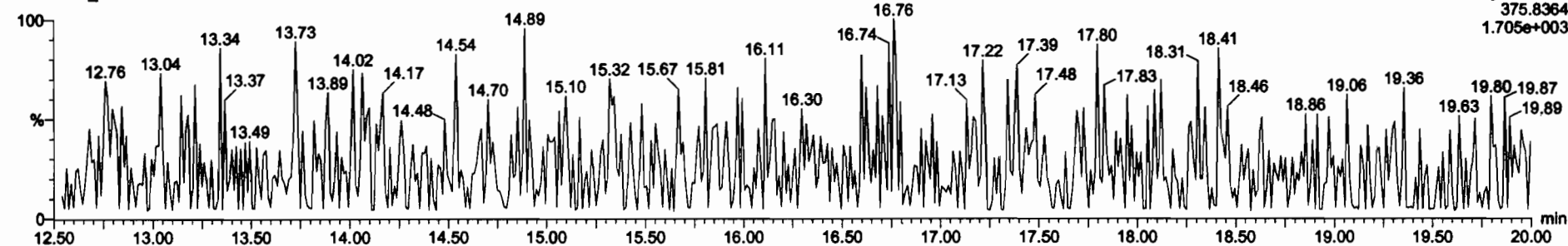
PFK1

200703D1\_2



DPE1

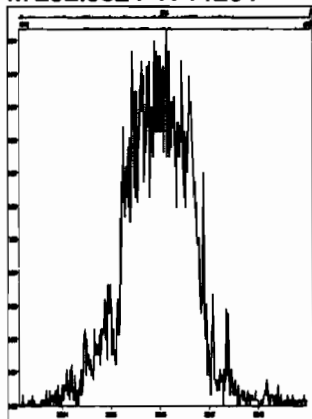
200703D1\_2



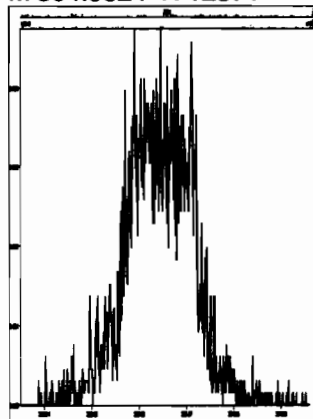
File: Experiment: tcdf\_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, July 03, 2020 16:32:28 Pacific Daylight Time

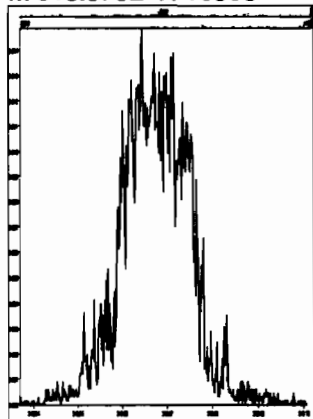
M 292.9824 R 11264



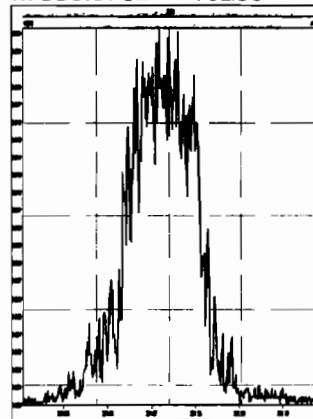
M 304.9824 R 12371



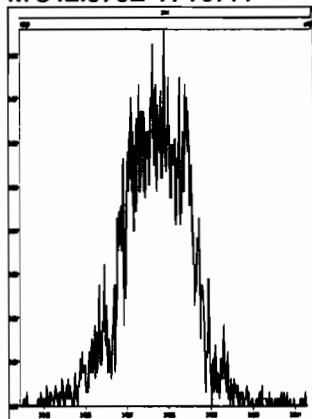
M 318.9792 R 10593



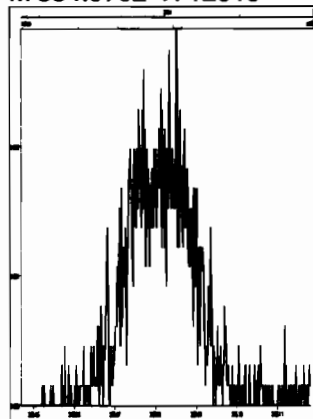
M 330.9792 R 10286



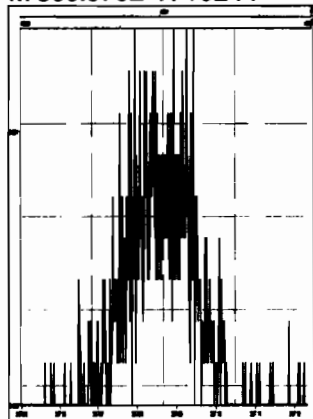
M 342.9792 R 10777



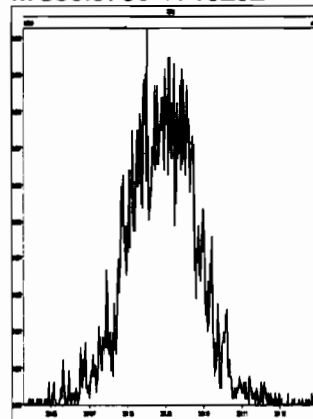
M 354.9792 R 12019



M 366.9792 R 10244



M 380.9760 R 10202



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

||  
**Beg. Calibration ID:** ST200708D1-1

**Reviewed By:** C707/09/2020  
*Initials & Date*

**End Calibration ID:** ST200708D1-2

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
<b>Ion abundance within QC limits?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<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 checked="" type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614    1699    429    1613/1668/8280		
<b>TCDD/TCDF Valleys &lt;25%</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA	<b>Intergrated peaks display correctly?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>First and last eluters present?</b>	<input type="checkbox"/> NA	<input type="checkbox"/> NA	<b>GC Break &lt;20%</b>	<input type="checkbox"/> NA	
<b>Retention Times within criteria?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b><u>8280 CS1 End Standard:</u></b>		
<b>Verification Std. named correctly?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>- Ratios within limits, S/N &lt;2.5:1, CS1 within 12 hours</b>		<input type="checkbox"/> NA
<b>(ST-Year-Month-Day-VG ID)</b>					
<b>Forms signed and dated?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>Comments:</b>		
<b>Correct ICAL referenced?</b>	<input type="checkbox"/> DB	<input type="checkbox"/> DB			
<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>	<input checked="" type="checkbox"/> (Y)	<input type="checkbox"/> N			
<b>- Bottle position verified?</b>	<input type="checkbox"/> DB				

Dataset: U:\VG7.PRO\Results\200708D1\200708D1\_2.qld

Last Altered: Wednesday, July 08, 2020 11:09:51 Pacific Daylight Time  
Printed: Wednesday, July 08, 2020 11:11:05 Pacific Daylight Time

*DB 7/8/20 07/09/2020*

Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52

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

Name: 200708D1\_2, Date: 08-Jul-2020, Time: 10:38:29, ID: ST200708D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

*1613 8290*

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRF	RRF	Conc			
1	2,3,7,8-TCDF	1.40e4	0.81	NO	0.982	1.000	16.925	16.95	1.000	1.001	8.7821	<i>87.884-120</i>	<i>0.12080-120</i>	<i>8.78</i>
2	13C-2,3,7,8-TCDF	1.62e5	0.75	NO	1.08	1.000	16.882	16.92	1.133	1.135	102.00	<i>102.71-140</i>	<i>0.36170-130</i>	
3	13C-1,2,3,4-TCDF	1.47e5	0.76	NO	1.00	1.000	15.060	14.91	1.000	1.000	100.00	100	0.391	

Dataset: Untitled

Last Altered: Thursday, July 09, 2020 09:30:53 Pacific Daylight Time  
Printed: Thursday, July 09, 2020 09:30:58 Pacific Daylight Time

Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

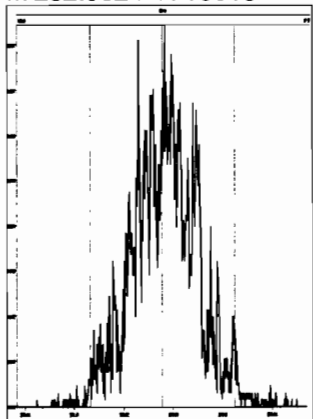
Compound name: 2,3,7,8-TCDF

Name	ID	Acq.Date	Acq.Time
200708D1_1	CP200708D1-1 DB-225 CPSM	08-Jul-20	10:08:20
200708D1_2	ST200708D1-1 1613 CS3 19L2305	08-Jul-20	10:38:29
200708D1_3	SOLVENT BLANK	08-Jul-20	11:10:12
200708D1_4	2001022-11RE1 PDI-051SC-B-02-04-200506 ...	08-Jul-20	11:41:57
200708D1_5	2001243-03RE1 ISUXO20SS500001 21.23	08-Jul-20	12:13:38
200708D1_6	2001243-10RE1 ISUXO20SSP50P0001 21.03	08-Jul-20	12:45:20
200708D1_7	2001033-01RE2 PDI-087SC-B-00-02-200509 ...	08-Jul-20	13:17:06
200708D1_8	2001207-02RE1 ISUXO20SB350102 11.15	08-Jul-20	13:48:46
200708D1_9	2001207-03RE1 ISUXO20SS390001 15.85	08-Jul-20	14:20:29
200708D1_10	2001207-04RE1 ISUXO20SB390102 12.79	08-Jul-20	14:52:11
200708D1_11	2001035-02RE1 PDI-050SC-A-01-02-200508 ...	08-Jul-20	15:27:49
200708D1_12	2001035-08RE1 PDI-050SC-B-00-02-200508 ...	08-Jul-20	15:57:51
200708D1_13	2001035-11RE1 PDI-093SC-B-00-02-200508 ...	08-Jul-20	16:29:33
200708D1_14	2001035-12RE1 PDI-093SC-B-02-05-200508 ...	08-Jul-20	17:01:15
200708D1_15	2001035-13RE1 PDI-093SC-B-05-6.6-200508 ...	08-Jul-20	17:32:52
200708D1_16	2001155-01RE1 PDI-1175SC-A-01-02-200522...	08-Jul-20	18:04:33
200708D1_17	2001155-02RE1 PDI-175SC-A-00-01-200522 ...	08-Jul-20	18:36:13
200708D1_18	2001155-03RE1 PDI-175SC-A-01-02-200522 ...	08-Jul-20	19:07:55
200708D1_19	2000855-15RE4 PDI-076SC-A-06-07-191013 ...	08-Jul-20	19:40:02
200708D1_20	SOLVENT BLANK	08-Jul-20	20:11:45
200708D1_21	ST200708D1-2 1613 CS3 19L2305	08-Jul-20	20:43:29

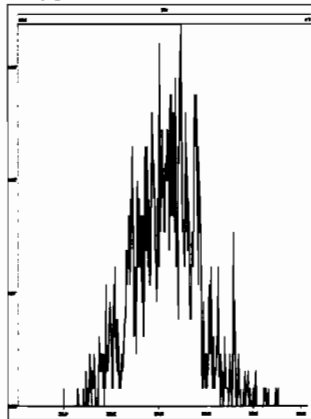
File: Experiment: tcdf\_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, July 08, 2020 10:07:19 Pacific Daylight Time

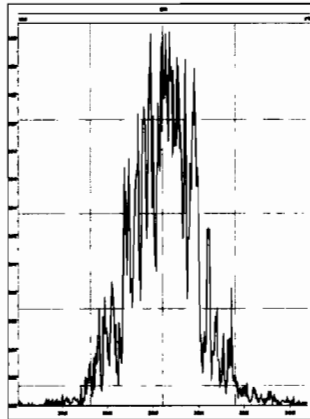
M 292.9824 R 13016



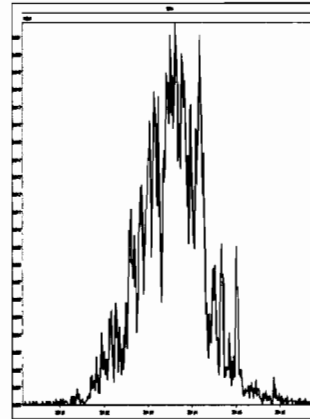
M 304.9824 R 11682



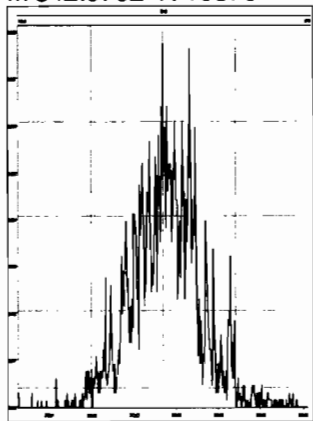
M 318.9792 R 11681



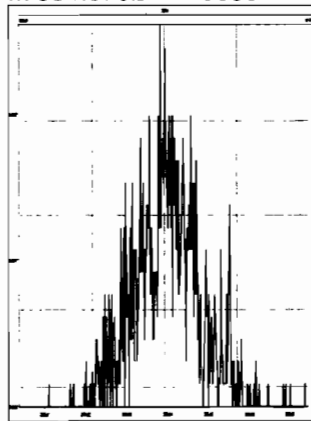
M 330.9792 R 10201



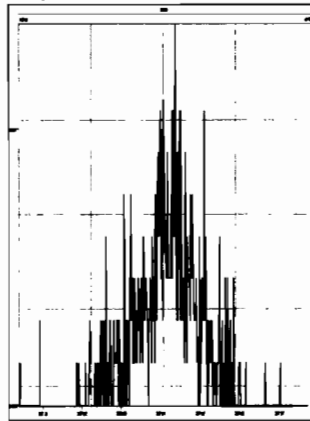
M 342.9792 R 10870



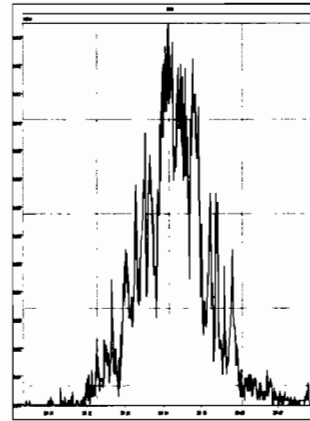
M 354.9792 R 16030

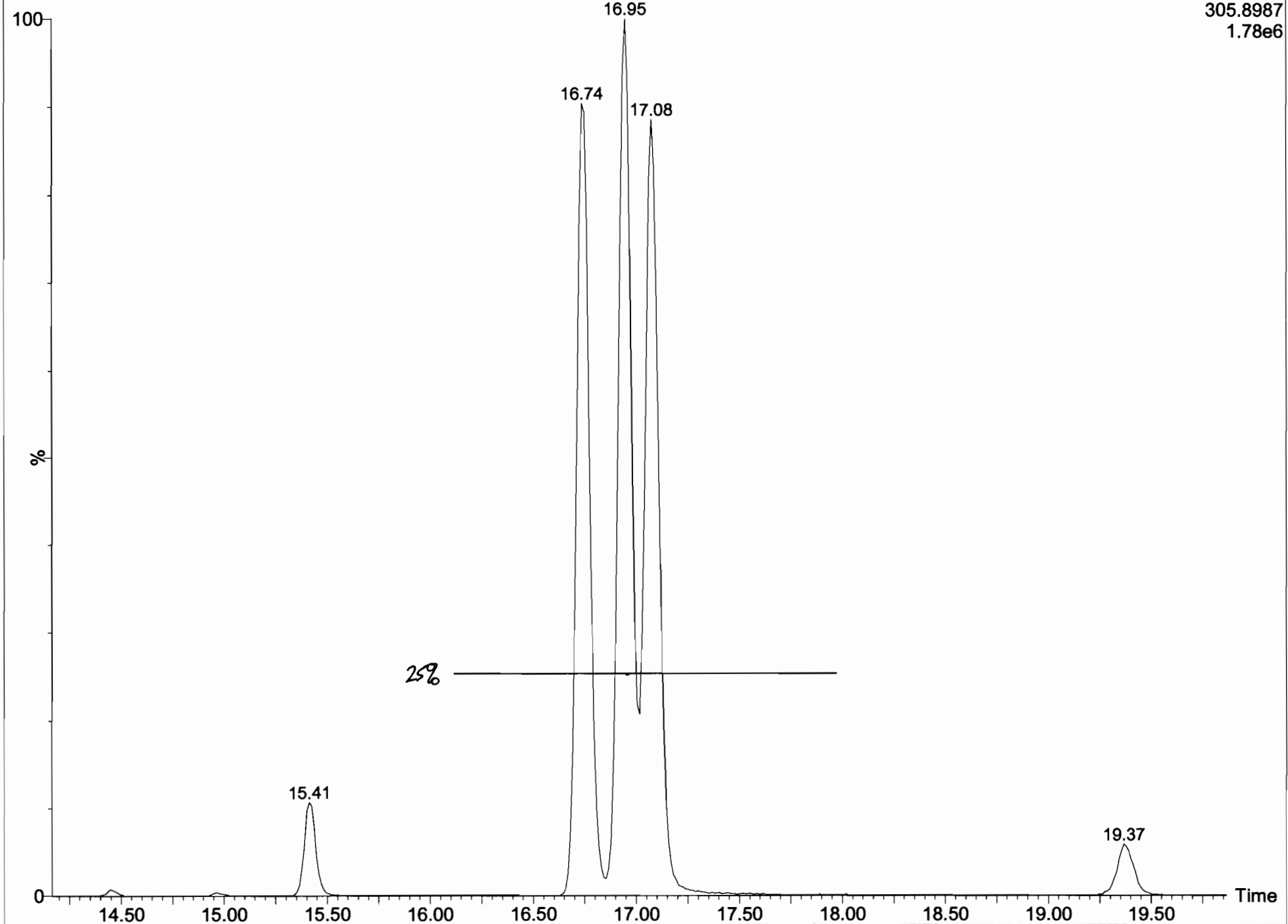


M 366.9792 R 12251



M 380.9760 R 11962







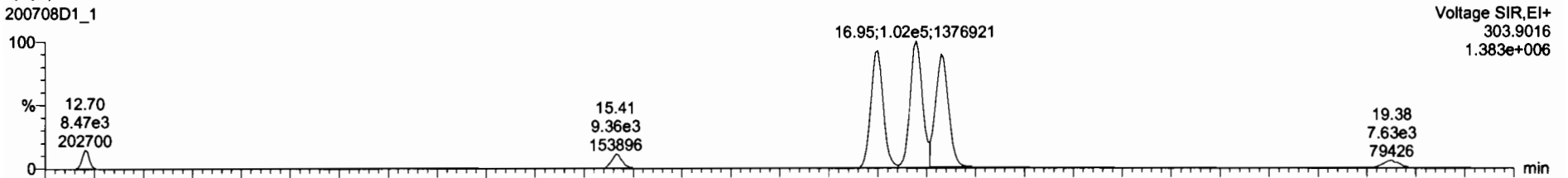
Dataset: U:\VG7.PRO\Results\200708D1\200708D1\_1.qld

Last Altered: Wednesday, July 08, 2020 11:11:41 Pacific Daylight Time  
Printed: Wednesday, July 08, 2020 11:12:35 Pacific Daylight Time

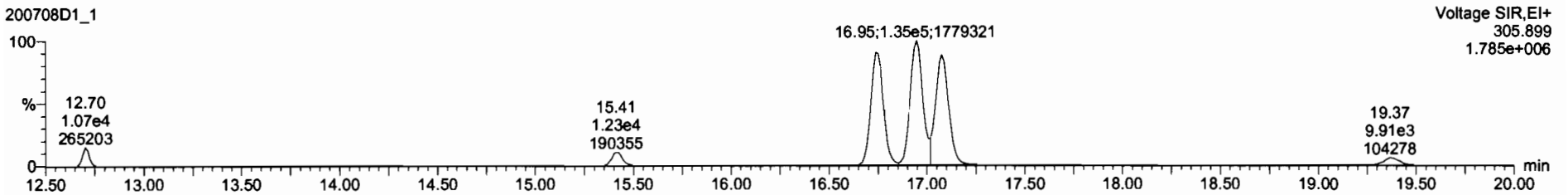
Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200708D1\_1, Date: 08-Jul-2020, Time: 10:08:20, ID: CP200708D1-1 DB-225 CPSM, Description: DB-225 CPSM

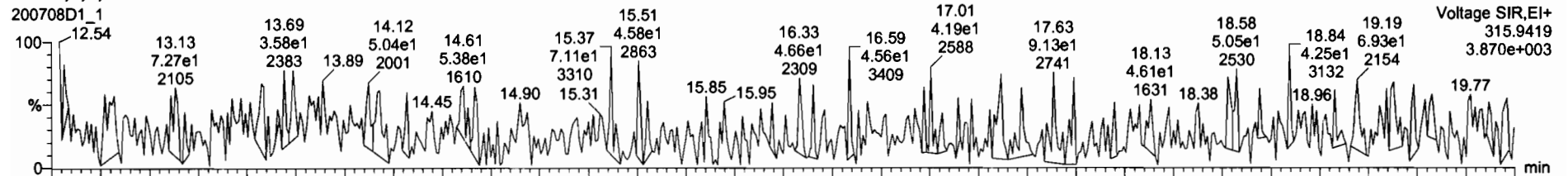
**2,3,7,8-TCDF**  
200708D1\_1



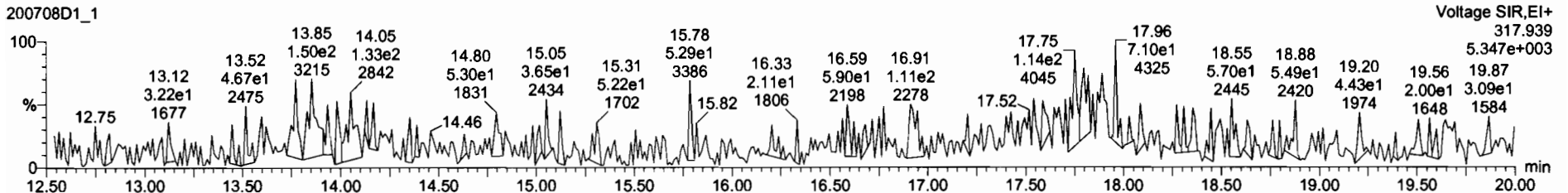
200708D1\_1



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



200708D1\_1

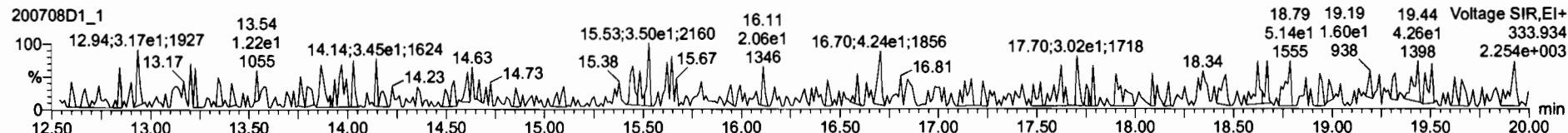
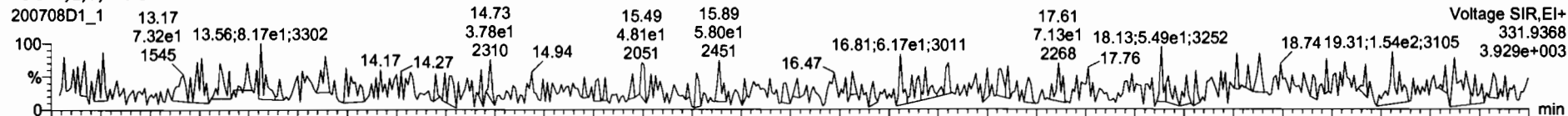


Dataset: U:\VG7.PRO\Results\200708D1\200708D1\_1.qld

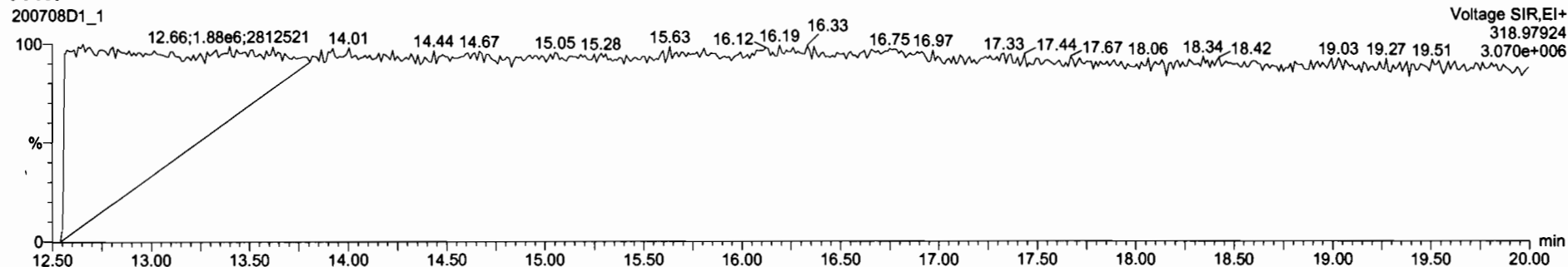
Last Altered: Wednesday, July 08, 2020 11:11:41 Pacific Daylight Time  
Printed: Wednesday, July 08, 2020 11:12:35 Pacific Daylight Time

Name: 200708D1\_1, Date: 08-Jul-2020, Time: 10:08:20, ID: CP200708D1-1 DB-225 CPSM, Description: DB-225 CPSM

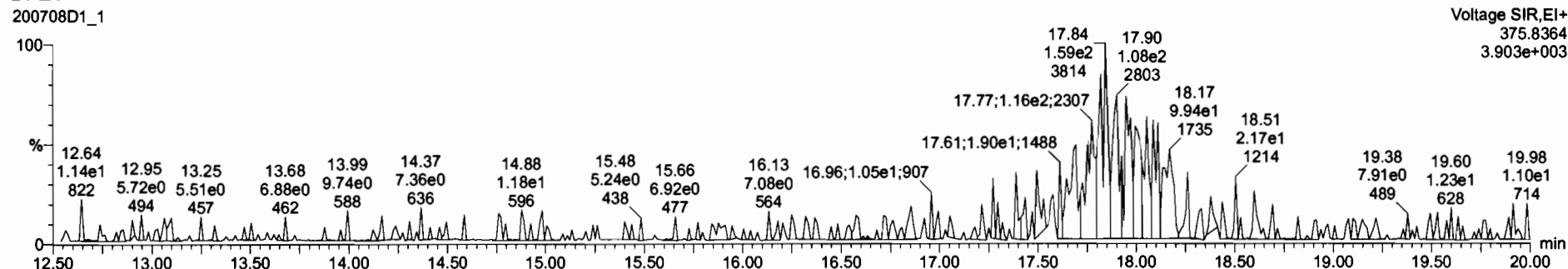
13C-1,2,3,4-TCDD



PFK1



DPE1



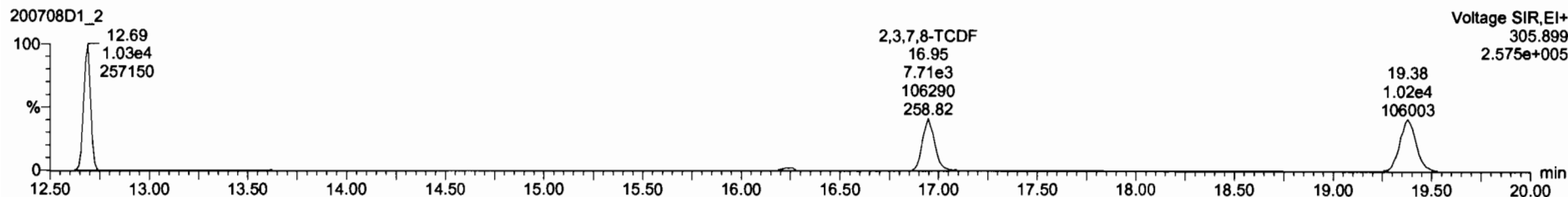
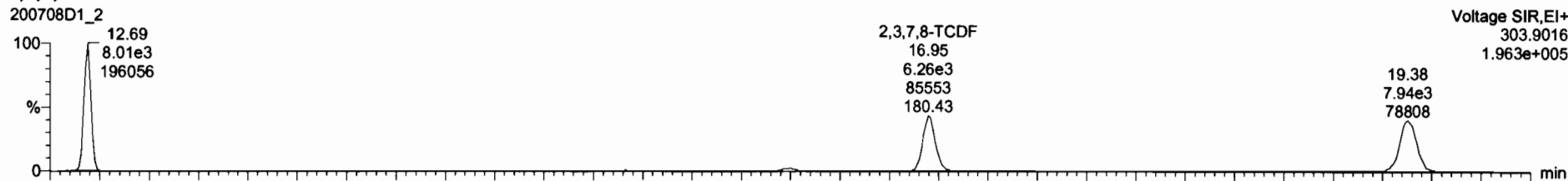
Dataset: U:\VG7.PRO\Results\200708D1\200708D1\_2.qld

Last Altered: Wednesday, July 08, 2020 11:09:51 Pacific Daylight Time  
Printed: Wednesday, July 08, 2020 11:11:31 Pacific Daylight Time

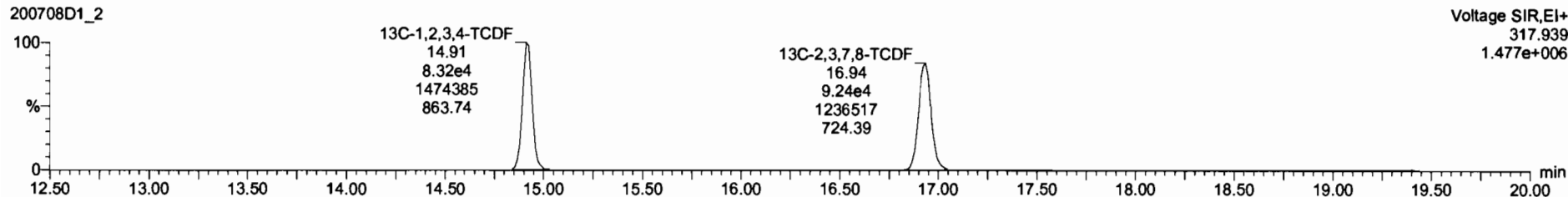
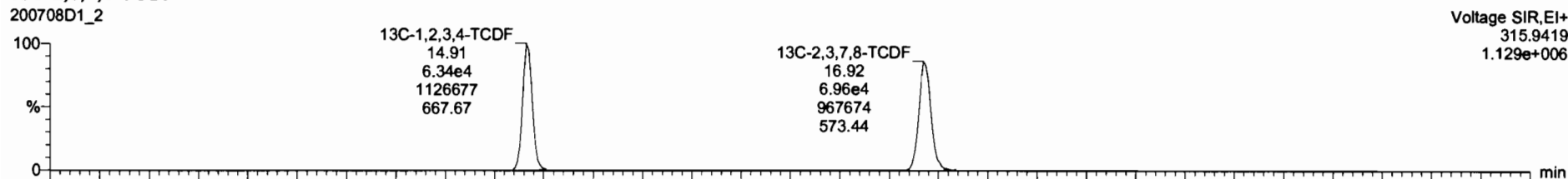
Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52  
Calibration: U:\VG7.PRO\CurveDB\ldb-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200708D1\_2, Date: 08-Jul-2020, Time: 10:38:29, ID: ST200708D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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



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



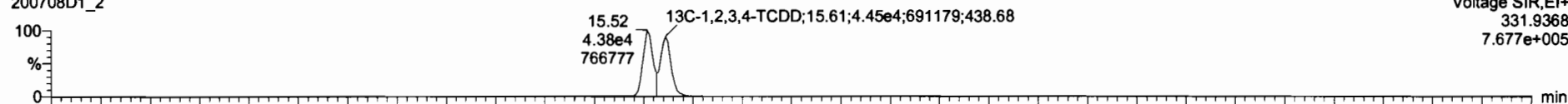
Dataset: U:\VG7.PRO\Results\200708D1\200708D1\_2.qld

Last Altered: Wednesday, July 08, 2020 11:09:51 Pacific Daylight Time  
Printed: Wednesday, July 08, 2020 11:11:31 Pacific Daylight Time

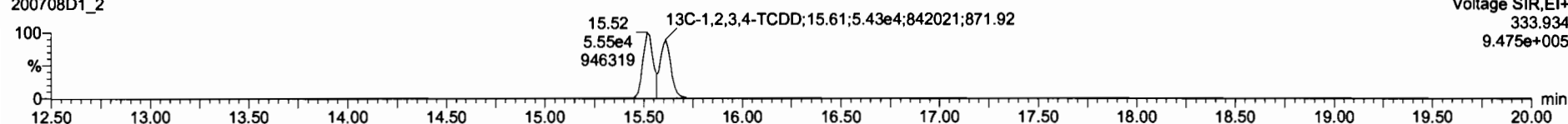
Name: 200708D1\_2, Date: 08-Jul-2020, Time: 10:38:29, ID: ST200708D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200708D1\_2

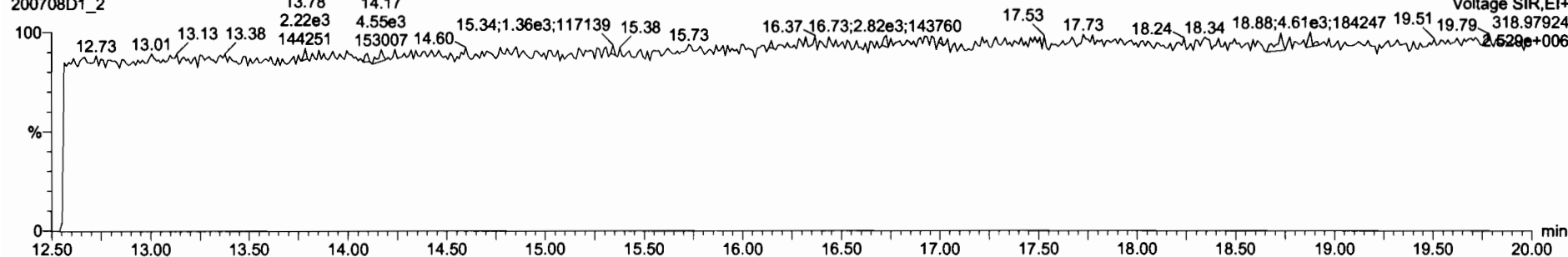


200708D1\_2



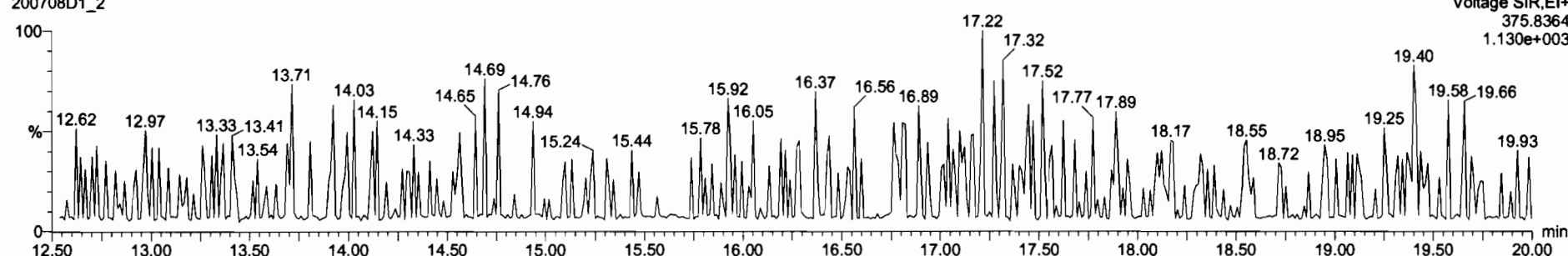
PFK1

200708D1\_2



DPE1

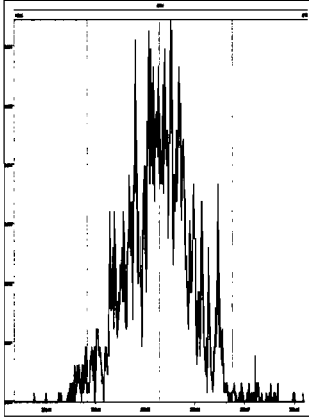
200708D1\_2



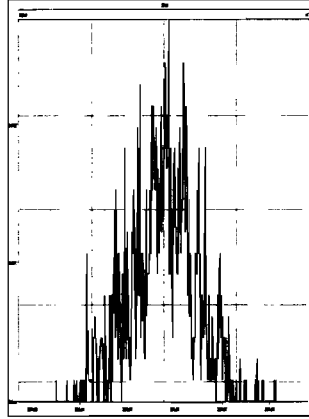
File: Experiment: tcdf\_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, July 08, 2020 21:16:53 Pacific Daylight Time

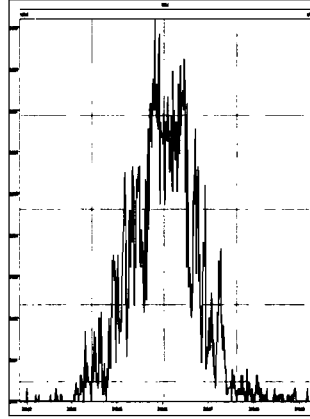
M 292.9824 R 11740



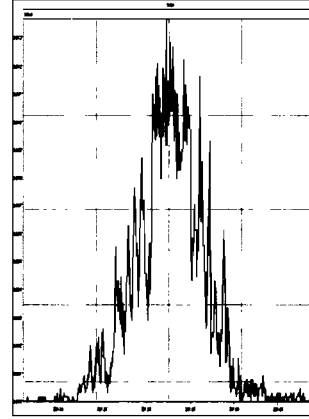
M 304.9824 R 12433



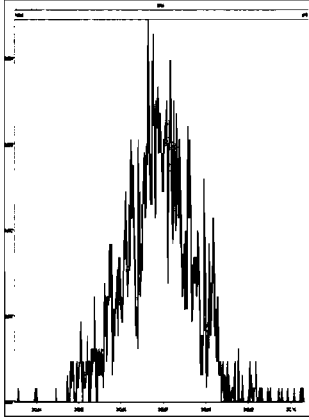
M 318.9792 R 12195



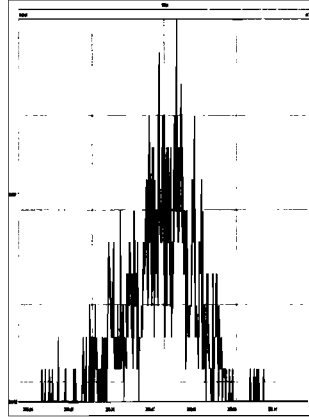
M 330.9792 R 11902



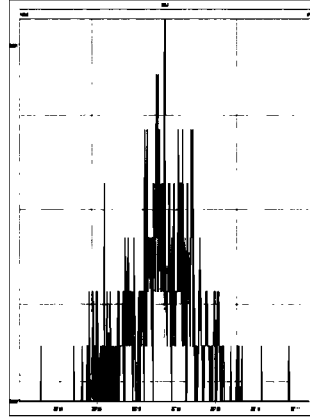
M 342.9792 R 11850



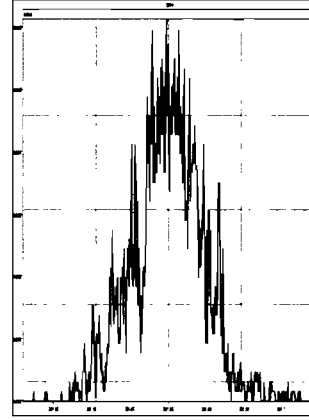
M 354.9792 R 13736



M 366.9792 R 15820



M 380.9760 R 10966



## **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

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**Compound name: 1,2,3,4,7,8-HxCDD**

Response Factor: 1.03343

RRF SD: 0.0545572, Relative SD: 5.27925

Response type: Internal Std ( Ref 20 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.27	NO	34.86	1.000	8.03e3	6.95e5	1.12	-10.6	0.924	MM
2	200528R2_2	2.50	1.27	NO	34.88	1.000	1.69e4	6.46e5	2.53	1.2	1.05	bd
3	200528R2_3	10.0	1.24	NO	34.88	1.000	6.94e4	6.61e5	10.2	1.6	1.05	bd
4	200528R2_4	200	1.23	NO	34.88	1.001	1.67e6	7.89e5	204	2.1	1.06	MM
5	200528R2_5	1500	1.23	NO	34.88	1.000	1.47e7	9.34e5	1520	1.5	1.05	bd
6	200528R2_6	50.0	1.23	NO	34.89	1.000	3.25e5	6.04e5	52.1	4.1	1.08	bd

**Compound name: 1,2,3,6,7,8-HxCDD**

Response Factor: 0.892293

RRF SD: 0.0561127, Relative SD: 6.28859

Response type: Internal Std ( Ref 21 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.23	NO	34.97	1.001	9.27e3	9.27e5	1.12	-10.3	0.800	db
2	200528R2_2	2.50	1.25	NO	34.99	1.001	1.90e4	8.61e5	2.47	-1.1	0.883	db
3	200528R2_3	10.0	1.24	NO	34.99	1.000	8.01e4	8.39e5	10.7	7.0	0.954	db
4	200528R2_4	200	1.22	NO	34.99	1.001	1.92e6	1.03e6	209	4.3	0.931	MM
5	200528R2_5	1500	1.23	NO	34.99	1.000	1.61e7	1.17e6	1550	3.5	0.923	db
6	200528R2_6	50.0	1.24	NO	35.00	1.001	3.51e5	8.15e5	48.3	-3.4	0.862	db

**Compound name: 1,2,3,7,8,9-HxCDD**

Response Factor: 0.886936

RRF SD: 0.0582559, Relative SD: 6.56822

Response type: Internal Std ( Ref 22 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.20	NO	35.25	1.000	8.14e3	8.33e5	1.10	-11.9	0.782	bb
2	200528R2_2	2.50	1.21	NO	35.27	1.001	1.62e4	7.48e5	2.44	-2.3	0.866	bb



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**Compound name: 1,2,3,7,8,9-HxCDD**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	10.0	1.26	NO	35.26	1.000	7.01e4	7.53e5	10.5	4.9	0.931	bb
4	200528R2_4	200	1.20	NO	35.26	1.000	1.70e6	9.12e5	210	4.9	0.931	bb
5	200528R2_5	1500	1.22	NO	35.27	1.000	1.47e7	1.06e6	1570	4.5	0.927	bb
6	200528R2_6	50.0	1.24	NO	35.27	1.000	3.12e5	7.05e5	49.9	-0.2	0.886	bb

**Compound name: 1,2,3,4,6,7,8-HpCDD**

Response Factor: 0.863903

RRF SD: 0.0694586, Relative SD: 8.04009

Response type: Internal Std ( Ref 23 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	0.99	NO	38.78	1.000	6.10e3	6.48e5	1.09	-12.8	0.753	MM
2	200528R2_2	2.50	1.05	NO	38.81	1.001	1.21e4	6.01e5	2.33	-6.7	0.806	bb
3	200528R2_3	10.0	1.03	NO	38.80	1.000	4.99e4	5.57e5	10.4	3.7	0.896	bd
4	200528R2_4	200	1.02	NO	38.80	1.000	1.25e6	6.86e5	211	5.5	0.911	bb
5	200528R2_5	1500	1.01	NO	38.81	1.000	1.15e7	8.18e5	1620	8.0	0.933	bb
6	200528R2_6	50.0	1.03	NO	38.81	1.000	2.29e5	5.18e5	51.2	2.4	0.884	MM

**Compound name: OCDD**

Response Factor: 0.913637

RRF SD: 0.0452527, Relative SD: 4.95303

Response type: Internal Std ( Ref 24 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	2.50	0.85	NO	41.76	1.000	1.23e4	1.18e6	2.27	-9.1	0.831	bd
2	200528R2_2	5.00	0.83	NO	41.77	1.000	2.39e4	1.05e6	4.97	-0.6	0.908	bd
3	200528R2_3	20.0	0.89	NO	41.78	1.000	9.89e4	1.03e6	21.0	4.9	0.959	MM
4	200528R2_4	400	0.87	NO	41.77	1.000	2.45e6	1.35e6	397	-0.6	0.908	MM
5	200528R2_5	3000	0.84	NO	41.79	1.000	2.37e7	1.67e6	3100	3.2	0.943	MM
6	200528R2_6	100	0.88	NO	41.78	1.000	4.53e5	9.71e5	102	2.2	0.933	MM

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

Response Factor: 0.75098

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

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**Compound name: 2,3,4,7,8-PeCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	10.0	1.55	NO	31.21	1.000	1.34e5	1.38e6	10.4	3.7	0.969	bb
4	200528R2_4	200	1.54	NO	31.21	1.000	3.00e6	1.57e6	204	2.2	0.955	bb
5	200528R2_5	1500	1.53	NO	31.21	1.000	2.45e7	1.69e6	1550	3.4	0.967	bb
6	200528R2_6	50.0	1.57	NO	31.22	1.000	5.81e5	1.24e6	50.3	0.7	0.941	bb

**Compound name: 1,2,3,4,7,8-HxCDF**

Response Factor: 0.884459  
 RRF SD: 0.0674086, Relative SD: 7.62145  
 Response type: Internal Std ( Ref 28 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.25	NO	33.99	1.001	8.98e3	9.42e5	1.08	-13.8	0.762	bd
2	200528R2_2	2.50	1.19	NO	33.99	1.000	1.81e4	8.49e5	2.41	-3.7	0.852	bd
3	200528R2_3	10.0	1.22	NO	34.01	1.001	7.91e4	8.47e5	10.6	5.6	0.934	bd
4	200528R2_4	200	1.18	NO	33.99	1.000	1.87e6	1.02e6	208	3.9	0.919	bd
5	200528R2_5	1500	1.19	NO	34.01	1.000	1.61e7	1.15e6	1590	5.8	0.936	bd
6	200528R2_6	50.0	1.21	NO	34.01	1.000	3.56e5	7.87e5	51.1	2.2	0.904	bd

**Compound name: 1,2,3,6,7,8-HxCDF**

Response Factor: 0.889174  
 RRF SD: 0.0479606, Relative SD: 5.39384  
 Response type: Internal Std ( Ref 29 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.16	NO	34.11	1.001	1.07e4	1.07e6	1.12	-10.7	0.794	MM
2	200528R2_2	2.50	1.25	NO	34.12	1.000	2.16e4	9.70e5	2.50	0.1	0.890	MM
3	200528R2_3	10.0	1.28	NO	34.12	1.000	9.20e4	1.01e6	10.3	2.7	0.914	MM
4	200528R2_4	200	1.18	NO	34.12	1.001	2.16e6	1.18e6	206	2.8	0.914	db
5	200528R2_5	1500	1.19	NO	34.12	1.000	1.80e7	1.33e6	1520	1.2	0.900	db
6	200528R2_6	50.0	1.25	NO	34.13	1.000	4.22e5	9.14e5	51.9	3.8	0.923	MM



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**Compound name: 2,3,4,6,7,8-HxCDF**

Response Factor: 0.934102  
 RRF SD: 0.0631666, Relative SD: 6.76228  
 Response type: Internal Std ( Ref 30 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.09	NO	34.70	1.001	9.51e3	9.22e5	1.10	-11.7	0.825	bb
2	200528R2_2	2.50	1.26	NO	34.71	1.001	1.93e4	8.66e5	2.38	-4.7	0.890	bb
3	200528R2_3	10.0	1.25	NO	34.71	1.000	8.53e4	8.69e5	10.5	5.2	0.982	bd
4	200528R2_4	200	1.19	NO	34.71	1.001	2.00e6	1.04e6	207	3.3	0.965	bb
5	200528R2_5	1500	1.19	NO	34.72	1.001	1.72e7	1.18e6	1560	4.1	0.972	bb
6	200528R2_6	50.0	1.25	NO	34.72	1.000	3.88e5	8.00e5	51.9	3.9	0.971	bb

**Compound name: 1,2,3,7,8,9-HxCDF**

Response Factor: 0.870707  
 RRF SD: 0.0533625, Relative SD: 6.12863  
 Response type: Internal Std ( Ref 31 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.19	NO	35.61	1.001	7.48e3	7.73e5	1.11	-11.0	0.775	bb
2	200528R2_2	2.50	1.12	NO	35.61	1.000	1.48e4	7.04e5	2.42	-3.1	0.844	bb
3	200528R2_3	10.0	1.24	NO	35.62	1.000	6.49e4	7.27e5	10.3	2.5	0.892	bd
4	200528R2_4	200	1.20	NO	35.62	1.001	1.60e6	8.84e5	208	3.9	0.904	bb
5	200528R2_5	1500	1.20	NO	35.63	1.000	1.40e7	1.02e6	1580	5.6	0.919	bb
6	200528R2_6	50.0	1.22	NO	35.63	1.000	2.98e5	6.70e5	51.1	2.2	0.890	bb

**Compound name: 1,2,3,4,6,7,8-HpCDF**

Response Factor: 0.873391  
 RRF SD: 0.0600077, Relative SD: 6.87065  
 Response type: Internal Std ( Ref 32 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.03	NO	37.37	1.000	6.77e3	7.13e5	1.09	-13.1	0.759	bb
2	200528R2_2	2.50	0.94	NO	37.40	1.001	1.40e4	6.49e5	2.48	-0.9	0.866	bb

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**Compound name: 1,2,3,4,6,7,8-HpCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	10.0	1.00	NO	37.40	1.001	5.72e4	6.48e5	10.1	1.0	0.883	bd
4	200528R2_4	200	0.99	NO	37.39	1.000	1.43e6	7.67e5	213	6.5	0.930	bb
5	200528R2_5	1500	1.00	NO	37.40	1.000	1.28e7	9.39e5	1560	3.7	0.906	bb
6	200528R2_6	50.0	0.98	NO	37.41	1.001	2.64e5	5.89e5	51.4	2.7	0.897	bb

**Compound name: 1,2,3,4,7,8,9-HpCDF**

Response Factor: 1.01285

RRF SD: 0.106215, Relative SD: 10.4867

Response type: Internal Std ( Ref 33 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	0.99	NO	39.33	1.001	5.26e3	5.09e5	1.02	-18.4	0.827	bb
2	200528R2_2	2.50	0.98	NO	39.33	1.000	1.03e4	4.36e5	2.33	-6.7	0.945	bb
3	200528R2_3	10.0	1.01	NO	39.34	1.000	4.43e4	4.19e5	10.4	4.3	1.06	MM
4	200528R2_4	200	0.98	NO	39.33	1.000	1.13e6	5.18e5	214	7.2	1.09	bb
5	200528R2_5	1500	1.00	NO	39.34	1.000	1.05e7	6.39e5	1620	8.2	1.10	bb
6	200528R2_6	50.0	0.98	NO	39.34	1.000	2.00e5	3.75e5	52.7	5.4	1.07	bb

**Compound name: OCDF**

Response Factor: 0.806476

RRF SD: 0.0306481, Relative SD: 3.80025

Response type: Internal Std ( Ref 34 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	2.50	0.87	NO	41.96	1.000	1.27e4	1.35e6	2.33	-6.6	0.753	bb
2	200528R2_2	5.00	0.84	NO	41.96	1.000	2.40e4	1.22e6	4.89	-2.2	0.789	bb
3	200528R2_3	20.0	0.86	NO	41.96	1.000	9.80e4	1.18e6	20.6	3.0	0.831	bb
4	200528R2_4	400	0.87	NO	41.96	1.000	2.54e6	1.57e6	402	0.5	0.810	bb
5	200528R2_5	3000	0.88	NO	41.98	1.000	2.39e7	1.92e6	3090	3.1	0.831	bb
6	200528R2_6	100	0.85	NO	41.97	1.000	4.44e5	1.08e6	102	2.3	0.825	bb

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**Compound name: 13C-2,3,7,8-TCDD**

Response Factor: 1.15633

RRF SD: 0.0999567, Relative SD: 8.64433

Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.80	NO	26.54	1.026	1.43e6	1.11e6	111	11.2	1.29	bb
2	200528R2_2	100	0.79	NO	26.54	1.025	1.29e6	1.24e6	89.8	-10.2	1.04	bb
3	200528R2_3	100	0.79	NO	26.54	1.025	1.31e6	1.26e6	89.8	-10.2	1.04	bb
4	200528R2_4	100	0.79	NO	26.54	1.025	1.50e6	1.26e6	103	2.8	1.19	bb
5	200528R2_5	100	0.78	NO	26.56	1.025	1.52e6	1.24e6	106	5.5	1.22	bb
6	200528R2_6	100	0.79	NO	26.56	1.025	1.16e6	9.95e5	101	0.8	1.17	bb

**Compound name: 13C-1,2,3,7,8-PeCDD**

Response Factor: 0.848975

RRF SD: 0.0899186, Relative SD: 10.5914

Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.64	NO	31.48	1.216	1.00e6	1.11e6	107	6.6	0.905	bb
2	200528R2_2	100	0.63	NO	31.50	1.216	9.36e5	1.24e6	88.7	-11.3	0.753	bb
3	200528R2_3	100	0.63	NO	31.50	1.216	9.29e5	1.26e6	86.8	-13.2	0.737	bb
4	200528R2_4	100	0.64	NO	31.50	1.216	1.11e6	1.26e6	103	3.3	0.877	bb
5	200528R2_5	100	0.64	NO	31.50	1.215	1.21e6	1.24e6	114	14.3	0.970	bb
6	200528R2_6	100	0.64	NO	31.50	1.215	8.48e5	9.95e5	100	0.3	0.852	bb

**Compound name: 13C-1,2,3,4,7,8-HxCDD**

Response Factor: 0.778953

RRF SD: 0.096377, Relative SD: 12.3726

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.27	NO	34.85	1.014	6.95e5	8.40e5	106	6.2	0.827	bd
2	200528R2_2	100	1.28	NO	34.87	1.014	6.46e5	9.66e5	85.9	-14.1	0.669	bd



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**Compound name: 13C-1,2,3,4,7,8-HxCDD**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	100	1.27	NO	34.87	1.014	6.61e5	9.75e5	87.0	-13.0	0.678	bd
4	200528R2_4	100	1.28	NO	34.86	1.014	7.89e5	9.81e5	103	3.4	0.805	bd
5	200528R2_5	100	1.28	NO	34.87	1.014	9.34e5	1.01e6	119	18.6	0.924	bd
6	200528R2_6	100	1.27	NO	34.88	1.014	6.04e5	7.84e5	98.9	-1.1	0.770	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDD**

Response Factor: 1.01669

RRF SD: 0.116266, Relative SD: 11.4358

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.27	NO	34.95	1.017	9.27e5	8.40e5	108	8.5	1.10	db
2	200528R2_2	100	1.27	NO	34.96	1.017	8.61e5	9.66e5	87.7	-12.3	0.891	db
3	200528R2_3	100	1.26	NO	34.97	1.017	8.39e5	9.75e5	84.7	-15.3	0.861	db
4	200528R2_4	100	1.25	NO	34.96	1.017	1.03e6	9.81e5	104	3.5	1.05	db
5	200528R2_5	100	1.27	NO	34.97	1.017	1.17e6	1.01e6	113	13.4	1.15	db
6	200528R2_6	100	1.23	NO	34.97	1.017	8.15e5	7.84e5	102	2.3	1.04	db

**Compound name: 13C-1,2,3,7,8,9-HxCDD**

Response Factor: 0.902653

RRF SD: 0.11238, Relative SD: 12.45

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.23	NO	35.24	1.025	8.33e5	8.40e5	110	9.8	0.991	bb
2	200528R2_2	100	1.26	NO	35.25	1.025	7.48e5	9.66e5	85.8	-14.2	0.774	bb
3	200528R2_3	100	1.28	NO	35.25	1.025	7.53e5	9.75e5	85.6	-14.4	0.773	bd
4	200528R2_4	100	1.23	NO	35.25	1.025	9.12e5	9.81e5	103	3.1	0.930	MM
5	200528R2_5	100	1.26	NO	35.26	1.025	1.06e6	1.01e6	116	16.1	1.05	bb
6	200528R2_6	100	1.18	NO	35.26	1.025	7.05e5	7.84e5	99.6	-0.4	0.899	bb

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

Response Factor: 0.689179  
 RRF SD: 0.0899136, Relative SD: 13.0465  
 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.06	NO	38.77	1.128	6.48e5	8.40e5	112	11.9	0.771	MM
2	200528R2_2	100	1.04	NO	38.78	1.128	6.01e5	9.66e5	90.2	-9.8	0.622	bd
3	200528R2_3	100	1.12	NO	38.79	1.128	5.57e5	9.75e5	83.0	-17.0	0.572	bd
4	200528R2_4	100	1.04	NO	38.78	1.128	6.86e5	9.81e5	102	1.6	0.700	MM
5	200528R2_5	100	1.03	NO	38.80	1.128	8.18e5	1.01e6	117	17.4	0.809	bb
6	200528R2_6	100	1.04	NO	38.80	1.128	5.18e5	7.84e5	95.9	-4.1	0.661	bd

**Compound name: 13C-OCDD**

Response Factor: 0.652099  
 RRF SD: 0.111511, Relative SD: 17.1002  
 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	200	0.89	NO	41.75	1.215	1.18e6	8.40e5	216	7.8	0.703	MM
2	200528R2_2	200	0.89	NO	41.76	1.215	1.05e6	9.66e5	167	-16.3	0.546	MM
3	200528R2_3	200	0.91	NO	41.76	1.214	1.03e6	9.75e5	162	-18.9	0.529	bd
4	200528R2_4	200	0.90	NO	41.76	1.215	1.35e6	9.81e5	211	5.7	0.689	bd
5	200528R2_5	200	0.93	NO	41.78	1.215	1.67e6	1.01e6	254	26.9	0.827	bd
6	200528R2_6	200	0.88	NO	41.77	1.215	9.71e5	7.84e5	190	-5.1	0.619	bd

**Compound name: 13C-2,3,7,8-TCDF**

Response Factor: 1.05898  
 RRF SD: 0.0854755, Relative SD: 8.07146  
 Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.76	NO	25.65	0.991	1.95e6	1.65e6	112	12.1	1.19	bb
2	200528R2_2	100	0.77	NO	25.66	0.991	1.78e6	1.83e6	92.1	-7.9	0.975	bb



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**Compound name: 13C-2,3,7,8-TCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	100	0.78	NO	25.66	0.991	1.80e6	1.89e6	90.1	-9.9	0.955	bb
4	200528R2_4	100	0.78	NO	25.66	0.991	2.04e6	1.91e6	101	1.0	1.07	bb
5	200528R2_5	100	0.78	NO	25.67	0.991	2.04e6	1.85e6	104	4.2	1.10	bb
6	200528R2_6	100	0.77	NO	25.68	0.991	1.59e6	1.49e6	101	0.5	1.06	bb

**Compound name: 13C-1,2,3,7,8-PeCDF**

Response Factor: 0.837982

RRF SD: 0.0870192, Relative SD: 10.3844

Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.59	NO	30.20	1.167	1.50e6	1.65e6	109	9.0	0.913	bb
2	200528R2_2	100	1.59	NO	30.22	1.167	1.37e6	1.83e6	89.3	-10.7	0.748	bb
3	200528R2_3	100	1.59	NO	30.22	1.167	1.38e6	1.89e6	86.9	-13.1	0.728	bb
4	200528R2_4	100	1.61	NO	30.22	1.167	1.63e6	1.91e6	102	1.9	0.854	bb
5	200528R2_5	100	1.63	NO	30.22	1.166	1.75e6	1.85e6	113	12.9	0.946	bb
6	200528R2_6	100	1.60	NO	30.23	1.166	1.25e6	1.49e6	100	0.0	0.838	bb

**Compound name: 13C-2,3,4,7,8-PeCDF**

Response Factor: 0.816557

RRF SD: 0.0702322, Relative SD: 8.60101

Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.60	NO	31.18	1.204	1.42e6	1.65e6	106	5.9	0.865	db
2	200528R2_2	100	1.57	NO	31.19	1.204	1.35e6	1.83e6	90.7	-9.3	0.741	db
3	200528R2_3	100	1.61	NO	31.19	1.204	1.38e6	1.89e6	89.4	-10.6	0.730	db
4	200528R2_4	100	1.61	NO	31.19	1.204	1.57e6	1.91e6	101	1.0	0.825	db
5	200528R2_5	100	1.60	NO	31.19	1.204	1.69e6	1.85e6	112	11.5	0.911	bb
6	200528R2_6	100	1.59	NO	31.21	1.204	1.24e6	1.49e6	101	1.4	0.828	db

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

Response Factor: 1.00752

RRF SD: 0.115021, Relative SD: 11.4162

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.50	NO	33.97	0.988	9.42e5	8.40e5	111	11.3	1.12	bd
2	200528R2_2	100	0.50	NO	33.98	0.988	8.49e5	9.66e5	87.2	-12.8	0.878	bd
3	200528R2_3	100	0.50	NO	33.98	0.988	8.47e5	9.75e5	86.2	-13.8	0.869	bd
4	200528R2_4	100	0.50	NO	33.98	0.988	1.02e6	9.81e5	103	3.0	1.04	bd
5	200528R2_5	100	0.50	NO	33.99	0.988	1.15e6	1.01e6	113	12.7	1.14	bd
6	200528R2_6	100	0.50	NO	33.99	0.988	7.87e5	7.84e5	99.6	-0.4	1.00	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDF**

Response Factor: 1.16702

RRF SD: 0.127304, Relative SD: 10.9085

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.50	NO	34.09	0.992	1.07e6	8.40e5	110	9.5	1.28	db
2	200528R2_2	100	0.51	NO	34.11	0.992	9.70e5	9.66e5	86.1	-13.9	1.00	db
3	200528R2_3	100	0.51	NO	34.11	0.992	1.01e6	9.75e5	88.5	-11.5	1.03	db
4	200528R2_4	100	0.51	NO	34.10	0.992	1.18e6	9.81e5	103	3.1	1.20	db
5	200528R2_5	100	0.51	NO	34.11	0.992	1.33e6	1.01e6	113	13.0	1.32	db
6	200528R2_6	100	0.50	NO	34.12	0.992	9.14e5	7.84e5	99.8	-0.2	1.17	db

**Compound name: 13C-2,3,4,6,7,8-HxCDF**

Response Factor: 1.02186

RRF SD: 0.110658, Relative SD: 10.829

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.51	NO	34.68	1.009	9.22e5	8.40e5	107	7.4	1.10	bb
2	200528R2_2	100	0.50	NO	34.69	1.009	8.66e5	9.66e5	87.7	-12.3	0.896	bb

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**Compound name: 13C-2,3,4,6,7,8-HxCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	100	0.51	NO	34.70	1.009	8.69e5	9.75e5	87.2	-12.8	0.891	bb
4	200528R2_4	100	0.51	NO	34.69	1.009	1.04e6	9.81e5	104	3.6	1.06	bb
5	200528R2_5	100	0.50	NO	34.70	1.009	1.18e6	1.01e6	114	14.3	1.17	bb
6	200528R2_6	100	0.51	NO	34.71	1.009	8.00e5	7.84e5	99.8	-0.2	1.02	bb

**Compound name: 13C-1,2,3,7,8,9-HxCDF**

Response Factor: 0.859541

RRF SD: 0.107178, Relative SD: 12.4692

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.51	NO	35.59	1.036	7.73e5	8.40e5	107	7.0	0.919	MM
2	200528R2_2	100	0.50	NO	35.61	1.036	7.04e5	9.66e5	84.8	-15.2	0.729	MM
3	200528R2_3	100	0.50	NO	35.61	1.036	7.27e5	9.75e5	86.8	-13.2	0.746	MM
4	200528R2_4	100	0.49	NO	35.60	1.036	8.84e5	9.81e5	105	4.9	0.902	bb
5	200528R2_5	100	0.51	NO	35.62	1.036	1.02e6	1.01e6	117	17.3	1.01	bb
6	200528R2_6	100	0.51	NO	35.63	1.036	6.70e5	7.84e5	99.3	-0.7	0.854	bd

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

Response Factor: 0.774499

RRF SD: 0.102271, Relative SD: 13.2048

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.44	NO	37.37	1.087	7.13e5	8.40e5	110	9.6	0.849	bd
2	200528R2_2	100	0.42	NO	37.38	1.087	6.49e5	9.66e5	86.7	-13.3	0.672	bb
3	200528R2_3	100	0.44	NO	37.38	1.087	6.48e5	9.75e5	85.9	-14.1	0.665	bd
4	200528R2_4	100	0.44	NO	37.38	1.087	7.67e5	9.81e5	101	0.9	0.782	bb
5	200528R2_5	100	0.44	NO	37.39	1.087	9.39e5	1.01e6	120	19.9	0.928	bd
6	200528R2_6	100	0.43	NO	37.39	1.087	5.89e5	7.84e5	97.0	-3.0	0.751	bb

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**Compound name: 13C-1,2,3,4,7,8,9-HpCDF**

Response Factor: 0.520991

RRF SD: 0.083066, Relative SD: 15.9439

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.43	NO	39.31	1.144	5.09e5	8.40e5	116	16.3	0.606	MM
2	200528R2_2	100	0.42	NO	39.32	1.144	4.36e5	9.66e5	86.7	-13.3	0.452	bb
3	200528R2_3	100	0.42	NO	39.33	1.144	4.19e5	9.75e5	82.5	-17.5	0.430	MM
4	200528R2_4	100	0.42	NO	39.32	1.144	5.18e5	9.81e5	101	1.4	0.529	MM
5	200528R2_5	100	0.44	NO	39.33	1.144	6.39e5	1.01e6	121	21.3	0.632	bb
6	200528R2_6	100	0.43	NO	39.34	1.144	3.75e5	7.84e5	91.8	-8.2	0.478	bd

**Compound name: 13C-OCDF**

Response Factor: 0.745653

RRF SD: 0.129429, Relative SD: 17.3579

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	200	0.87	NO	41.94	1.220	1.35e6	8.40e5	215	7.6	0.803	bb
2	200528R2_2	200	0.83	NO	41.95	1.220	1.22e6	9.66e5	169	-15.4	0.631	bb
3	200528R2_3	200	0.90	NO	41.96	1.220	1.18e6	9.75e5	162	-18.8	0.605	bd
4	200528R2_4	200	0.88	NO	41.95	1.220	1.57e6	9.81e5	215	7.3	0.800	MM
5	200528R2_5	200	0.88	NO	41.97	1.220	1.92e6	1.01e6	254	27.2	0.949	bb
6	200528R2_6	200	0.90	NO	41.96	1.220	1.08e6	7.84e5	184	-7.9	0.687	MM

**Compound name: 37Cl-2,3,7,8-TCDD**

Response Factor: 1.03685

RRF SD: 0.126311, Relative SD: 12.1822

Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	0.250			26.57	1.027	2.71e3	1.11e6	0.235	-5.9	0.976	bb
2	200528R2_2	0.500			26.56	1.025	5.67e3	1.24e6	0.440	-11.9	0.913	bb



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**Compound name: 37Cl-2,3,7,8-TCDD**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	2.00			26.57	1.026	2.30e4	1.26e6	1.76	-12.0	0.912	bd
4	200528R2_4	40.0			26.56	1.025	5.78e5	1.26e6	44.1	10.2	1.14	bb
5	200528R2_5	200			26.57	1.025	3.03e6	1.24e6	235	17.7	1.22	bb
6	200528R2_6	10.0			26.59	1.026	1.05e5	9.95e5	10.2	2.1	1.06	bb

**Compound name: 13C-1,2,3,4-TCDD**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.80	NO	25.89	1.000	1.11e6	1.11e6	100	0.0	1.00	bb
2	200528R2_2	100	0.81	NO	25.90	1.000	1.24e6	1.24e6	100	0.0	1.00	bb
3	200528R2_3	100	0.80	NO	25.90	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
4	200528R2_4	100	0.80	NO	25.90	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
5	200528R2_5	100	0.80	NO	25.92	1.000	1.24e6	1.24e6	100	0.0	1.00	bb
6	200528R2_6	100	0.80	NO	25.92	1.000	9.95e5	9.95e5	100	0.0	1.00	bb

**Compound name: 13C-1,2,3,4-TCDF**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.78	NO	24.22	1.000	1.65e6	1.65e6	100	0.0	1.00	bb
2	200528R2_2	100	0.78	NO	24.22	1.000	1.83e6	1.83e6	100	0.0	1.00	bb
3	200528R2_3	100	0.78	NO	24.22	1.000	1.89e6	1.89e6	100	0.0	1.00	bb
4	200528R2_4	100	0.79	NO	24.22	1.000	1.91e6	1.91e6	100	0.0	1.00	bb
5	200528R2_5	100	0.79	NO	24.24	1.000	1.85e6	1.85e6	100	0.0	1.00	bb
6	200528R2_6	100	0.77	NO	24.24	1.000	1.49e6	1.49e6	100	0.0	1.00	bb

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	1,3,6,8-TCDD (First)	22.59
2	1,2,8,9-TCDD (Last)	27.53
3	1,2,4,7,9-PeCDD (First)	29.32
4	1,2,3,8,9-PeCDD (Last)	31.89
5	1,2,4,6,7,9-HxCDD (First)	33.39
6	1,2,3,7,8,9-HxCDD (Last)	35.27
7	1,2,3,4,6,7,9-HpCDD (First)	37.81
8	1,2,3,4,6,7,8-HpCDD (Last)	38.81
9	1,3,6,8-TCDF (First)	20.44
10	1,2,8,9-TCDF (Last)	27.68
11	1,3,4,6,8-PeCDF (First)	27.64
12	1,2,3,8,9-PeCDF (Last)	32.14
13	1,2,3,4,6,8-HxCDF (First)	32.83
14	1,2,3,7,8,9-HxCDF (Last)	35.63
15	1,2,3,4,6,7,8-HpCDF (First)	37.41
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

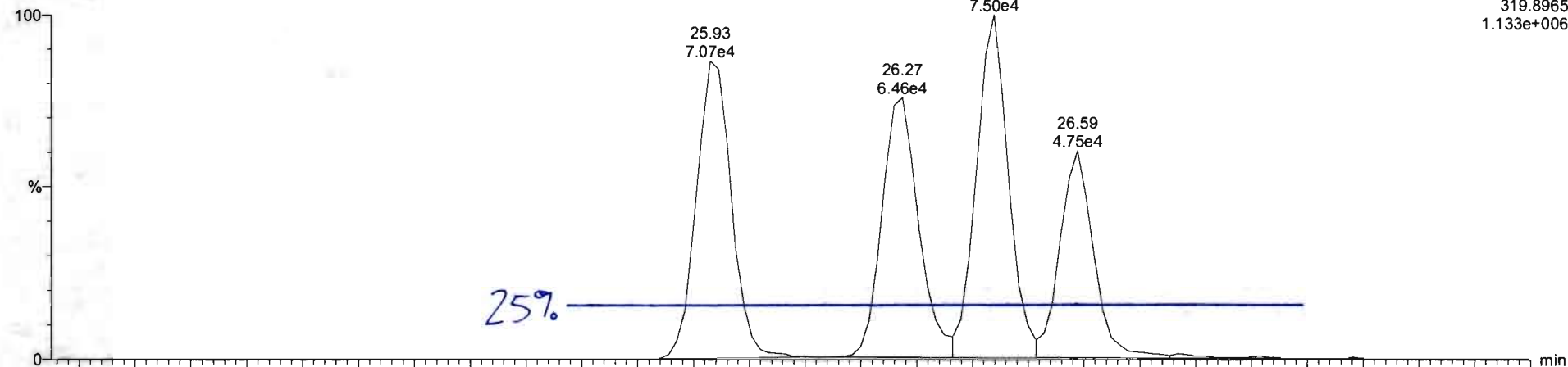
Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

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

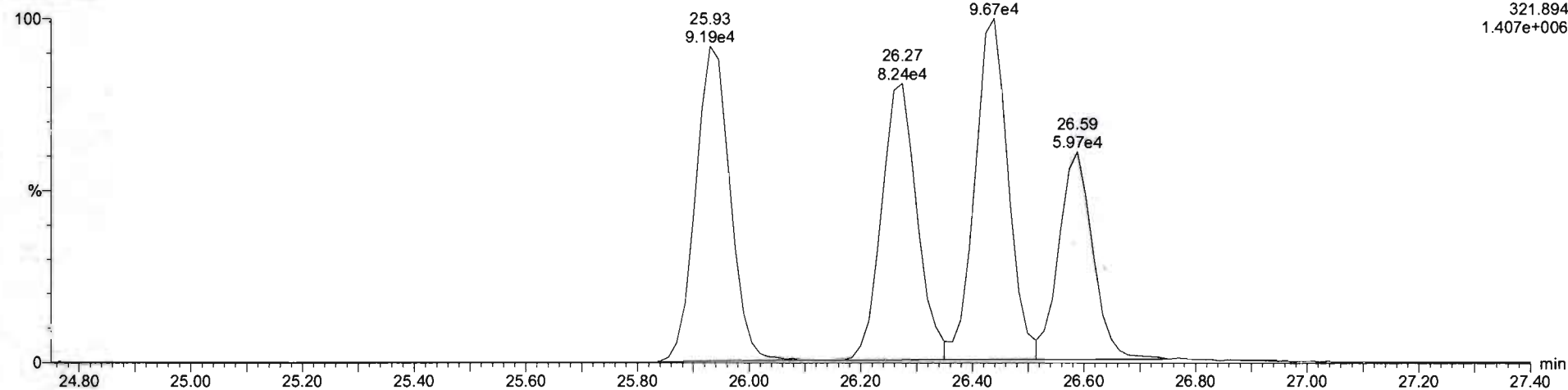
1,3,6,8-TCDD (First)

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

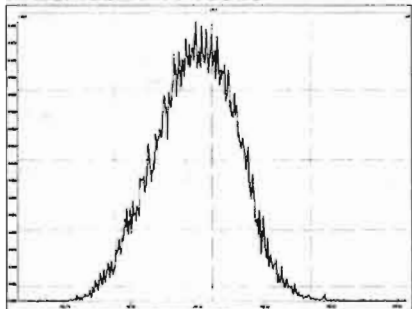
Experiment Calibration Report

MassLynx 4.1 SCN815

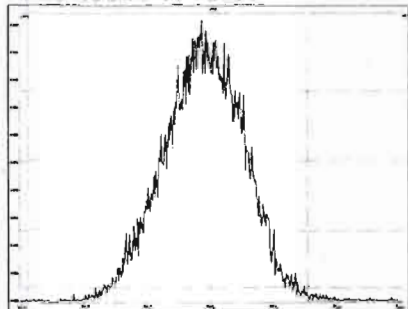
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, May 28, 2020 11:48:59 Pacific Daylight Time

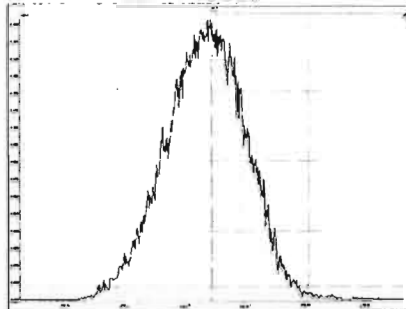
M 292.9824 R 10503



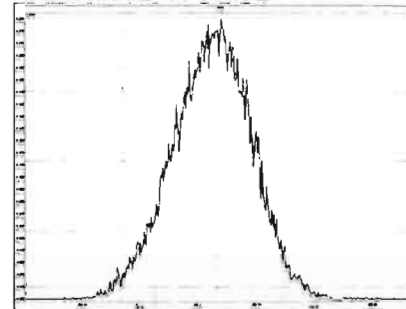
M 304.9824 R 10376



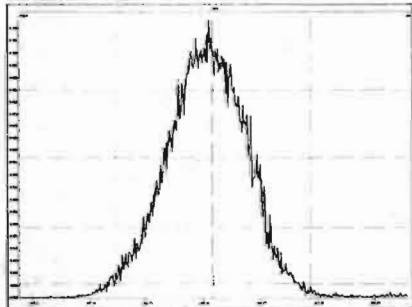
M 318.9792 R 10589



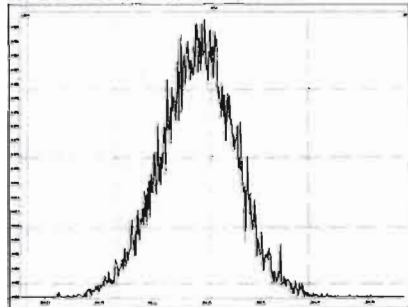
M 330.9792 R 10552



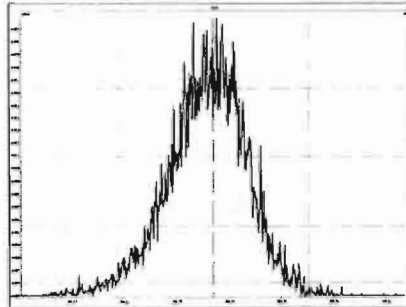
M 342.9792 R 10247



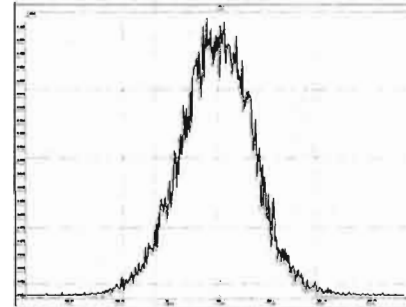
M 354.9792 R 10330



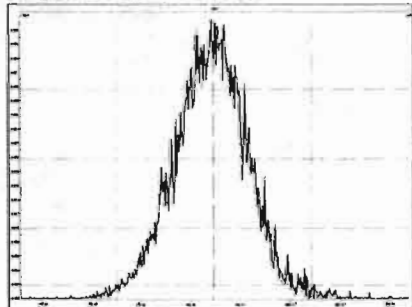
M 366.9792 R 11417



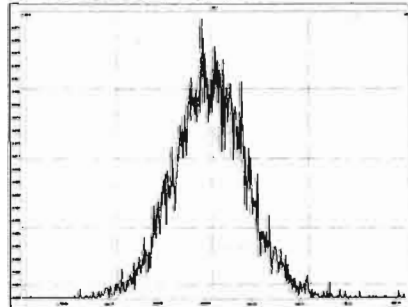
M 380.9760 R 11062



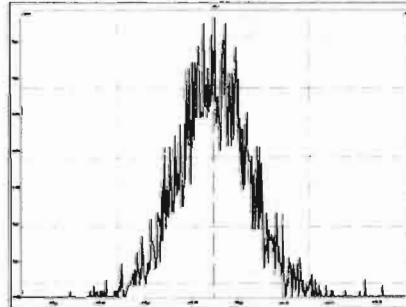
M 392.9760 R 11790



M 404.9760 R 12316



M 416.9760 R 12754



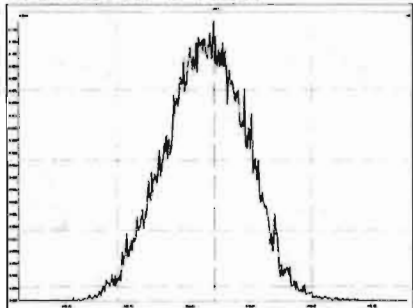
Experiment Calibration Report

MassLynx 4.1 SCN815

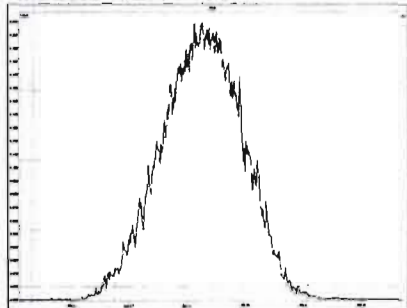
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, May 28, 2020 11:49:33 Pacific Daylight Time

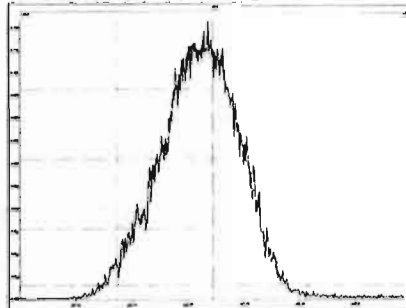
M 318.9792 R 10247



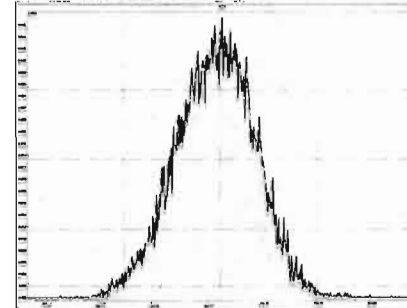
M 330.9792 R 10372



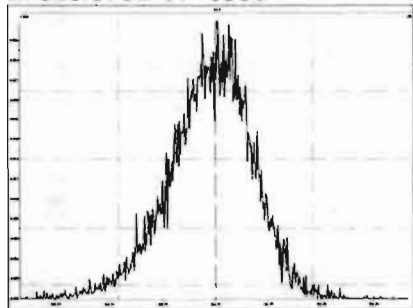
M 342.9792 R 10370



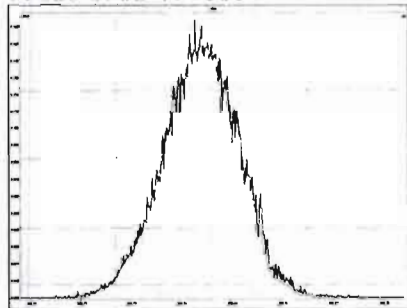
M 354.9792 R 10822



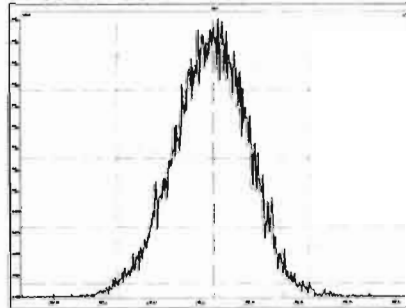
M 366.9792 R 10963



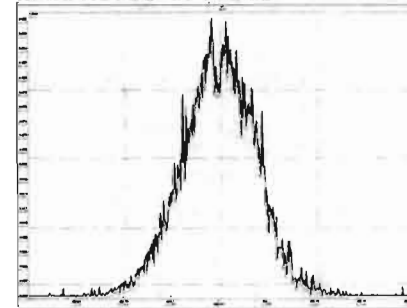
M 380.9760 R 10594



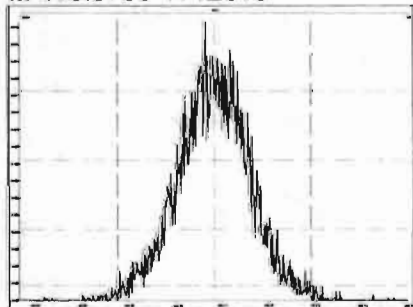
M 392.9760 R 10821



M 404.9760 R 11845



M 416.9760 R 12018



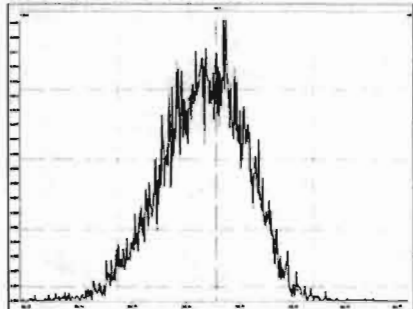
Experiment Calibration Report

MassLynx 4.1 SCN815

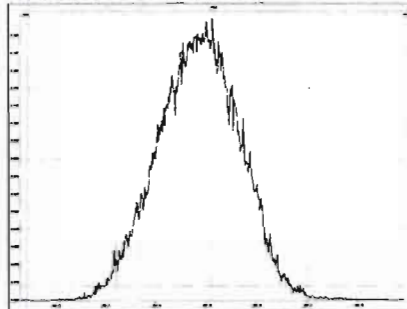
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Printed: Thursday, May 28, 2020 11:50:12 Pacific Daylight Time

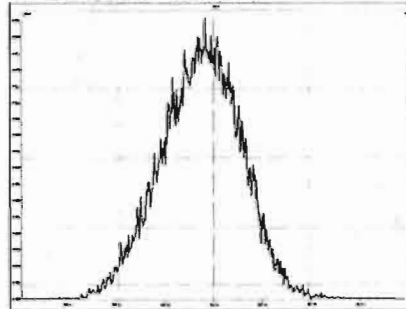
M 366.9792 R 10641



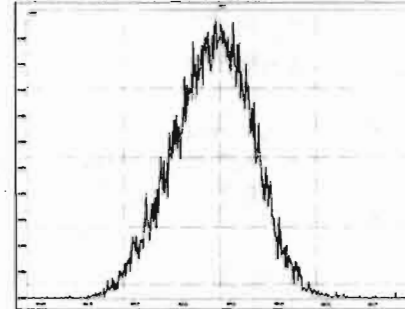
M 380.9760 R 10331



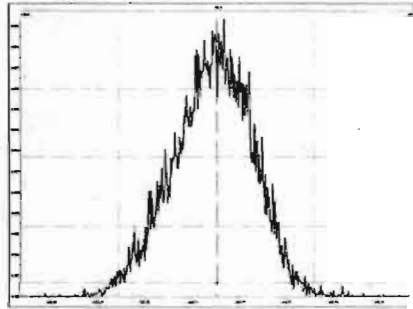
M 392.9760 R 10459



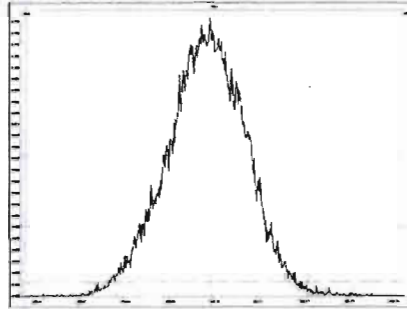
M 404.9760 R 10505



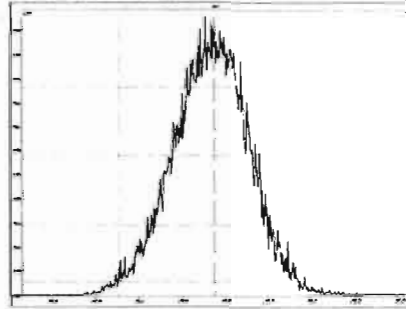
M 416.9760 R 11061



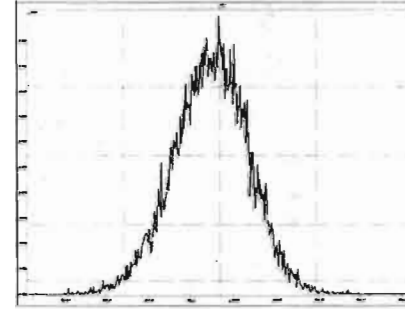
M 430.9728 R 10290



M 442.9728 R 10593



M 454.9728 R 10919



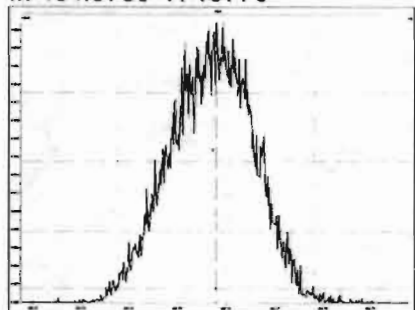
Experiment Calibration Report

MassLynx 4.1 SCN815

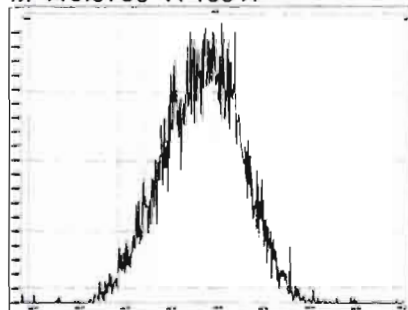
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Printed: Thursday, May 28, 2020 11:51:03 Pacific Daylight Time

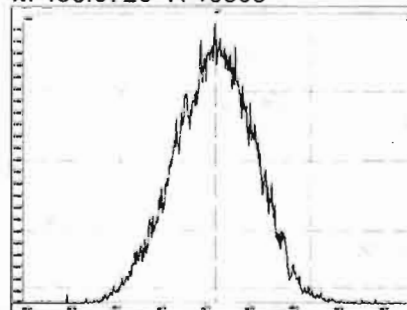
M 404.9760 R 10778



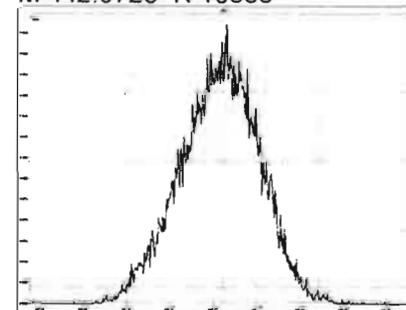
M 416.9760 R 10917



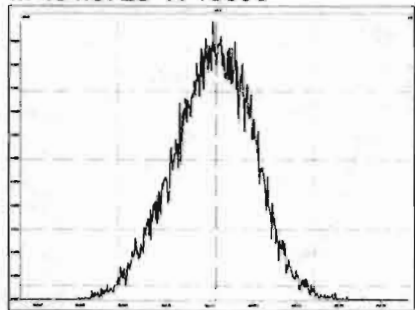
M 430.9728 R 10503



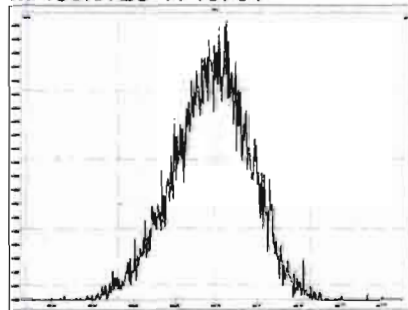
M 442.9728 R 10636



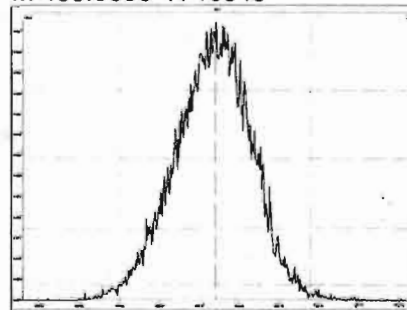
M 454.9728 R 10638



M 466.9728 R 10731



M 480.9696 R 10545





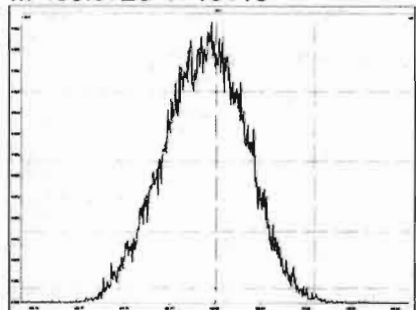
Experiment Calibration Report

MassLynx 4.1 SCN815

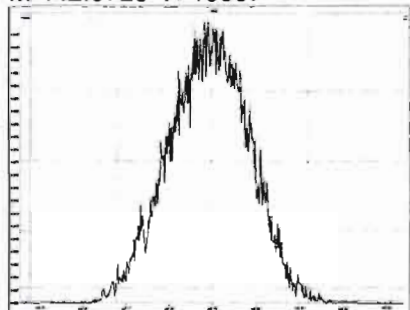
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Printed: Thursday, May 28, 2020 11:51:45 Pacific Daylight Time

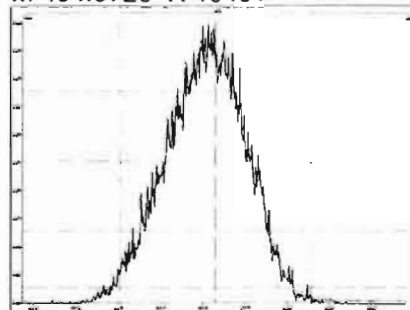
M 430.9728 R 10118



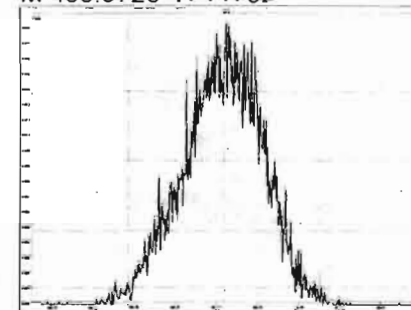
M 442.9728 R 10637



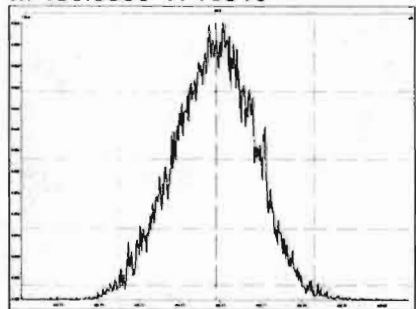
M 454.9728 R 10461



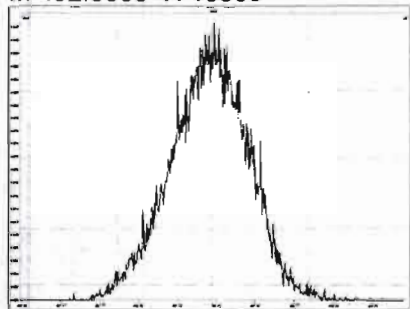
M 466.9728 R 11792



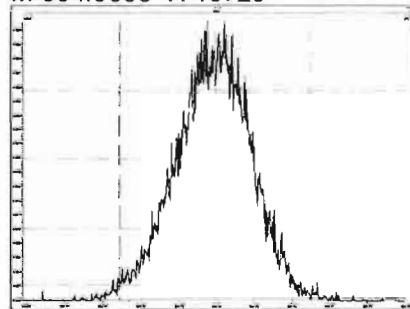
M 480.9696 R 10915



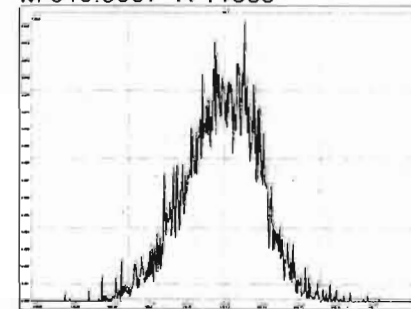
M 492.9696 R 10639



M 504.9696 R 10729



M 516.9697 R 11683



Dataset: Untitled

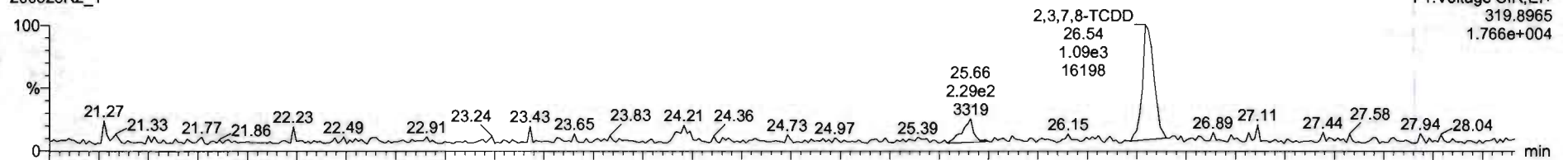
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17  
Calibration: 29 May 2020 07:49:30

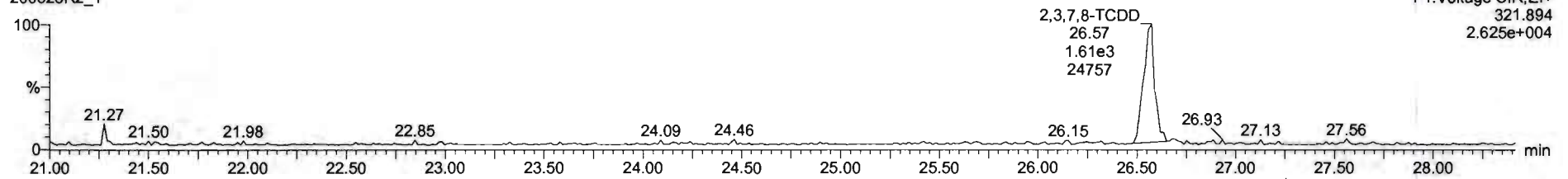
Name: 200528R2\_1, Date: 28-May-2020, Time: 11:53:52, ID: ST200528R2\_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDD

200528R2\_1

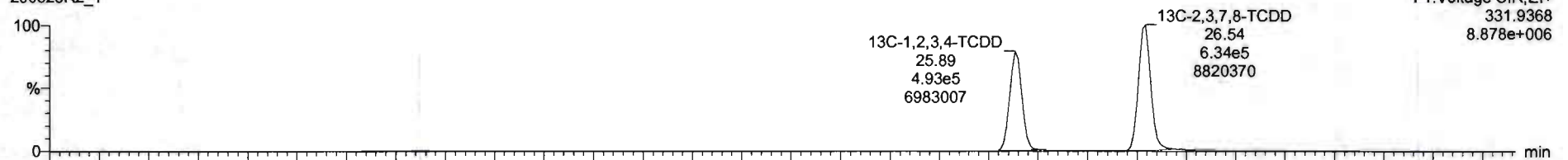


200528R2\_1

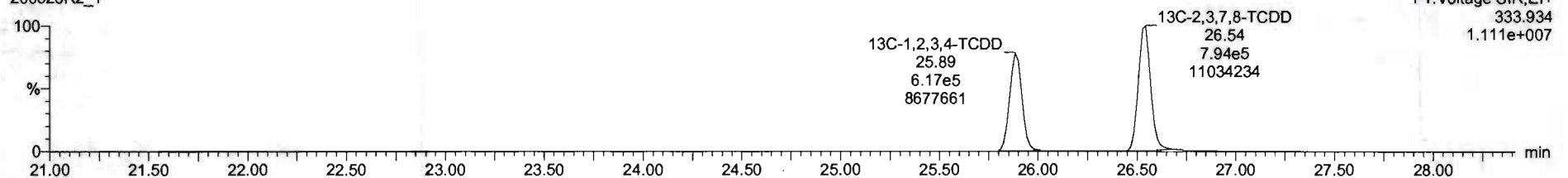


13C-2,3,7,8-TCDD

200528R2\_1



200528R2\_1



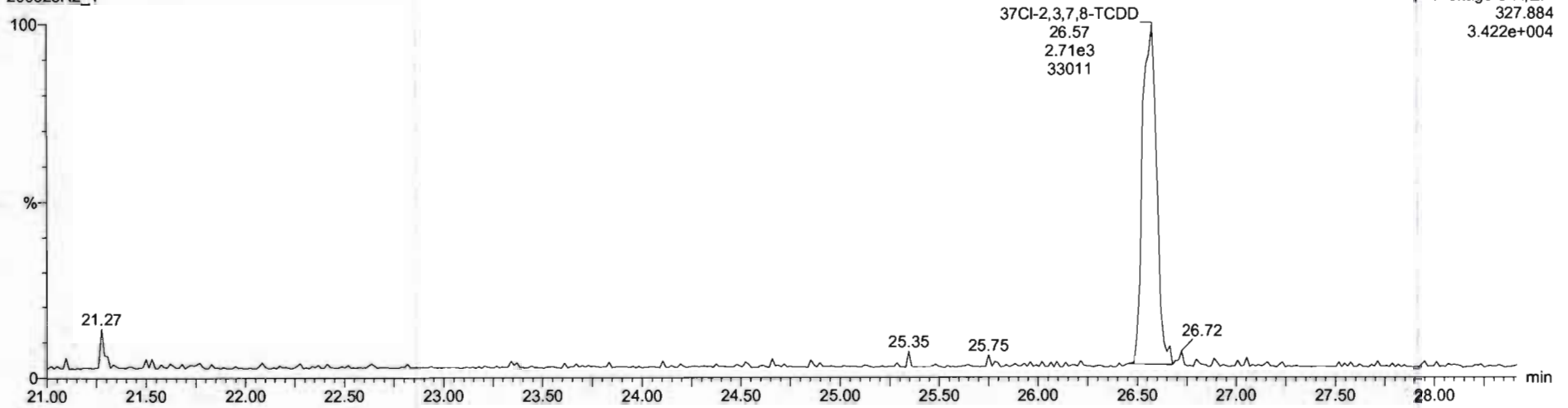
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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time  
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2\_1, Date: 28-May-2020, Time: 11:53:52, ID: ST200528R2\_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

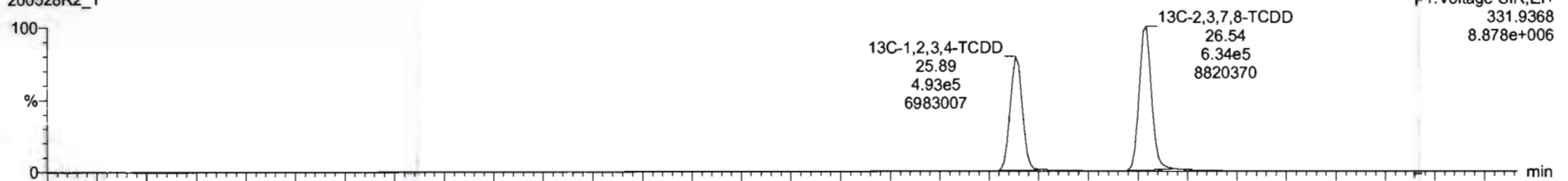
**37Cl-2,3,7,8-TCDD**

200528R2\_1

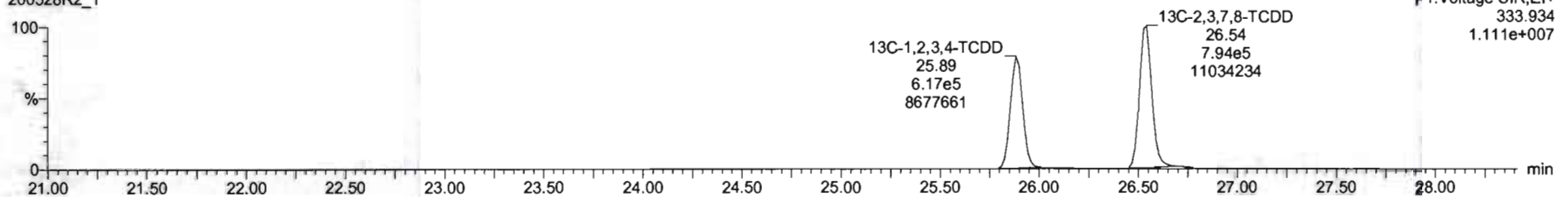


**13C-1,2,3,4-TCDD**

200528R2\_1



200528R2\_1





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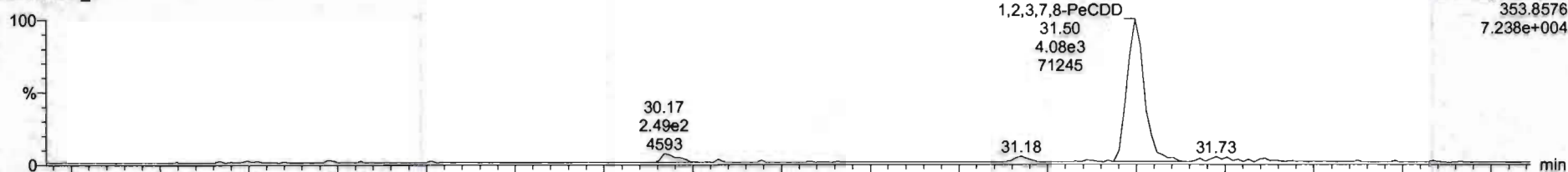
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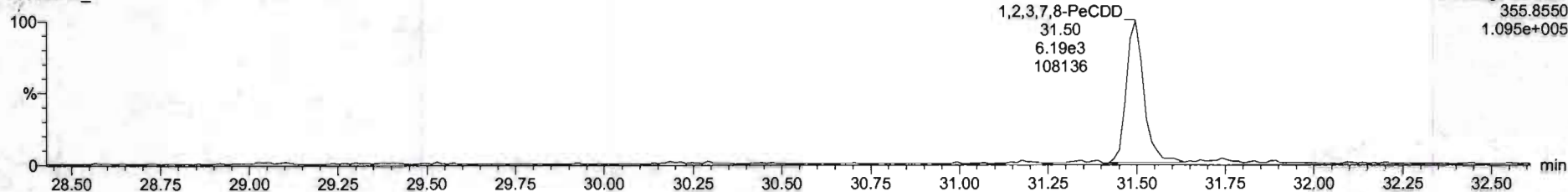
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**1,2,3,7,8-PeCDD**

200528R2\_1

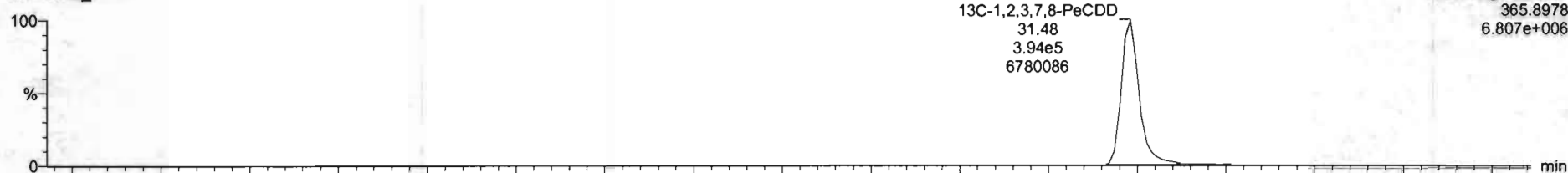


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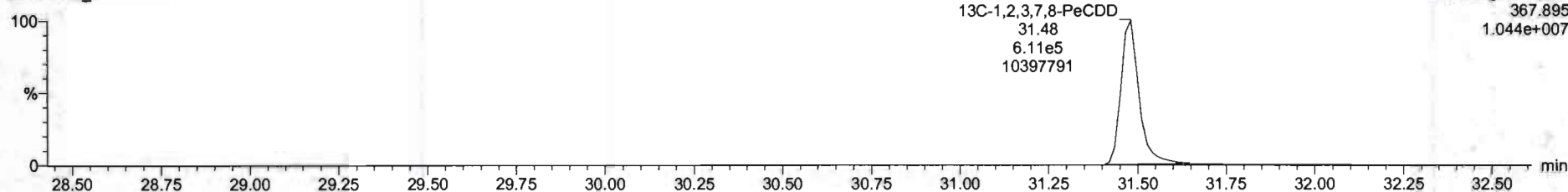


**13C-1,2,3,7,8-PeCDD**

200528R2\_1



200528R2\_1



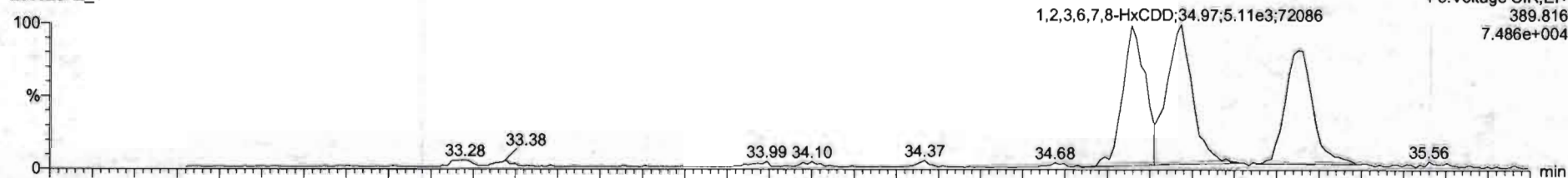
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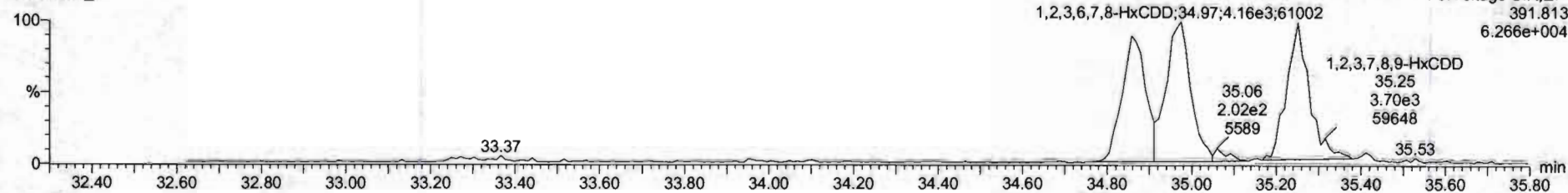
1,2,3,4,7,8-HxCDD

200528R2\_1



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7.486e+004

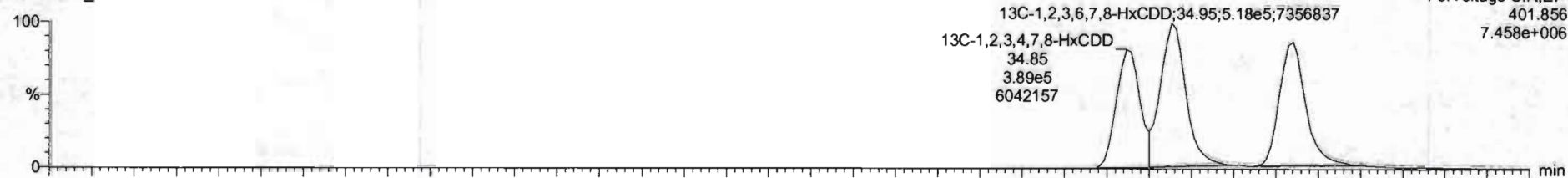
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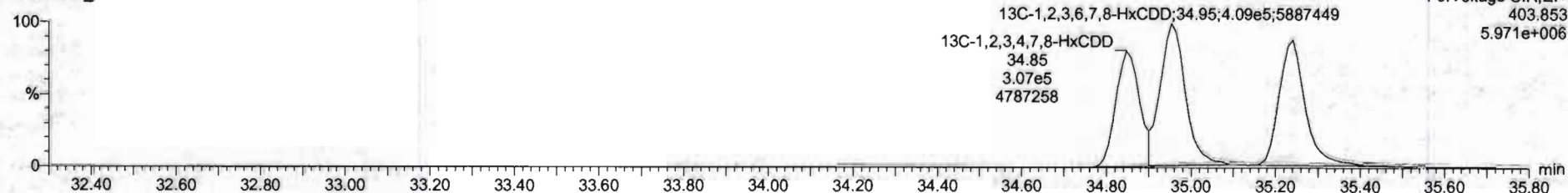
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200528R2\_1



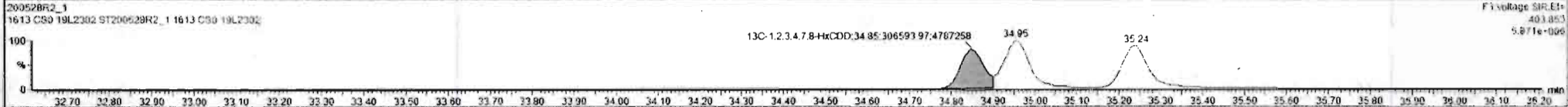
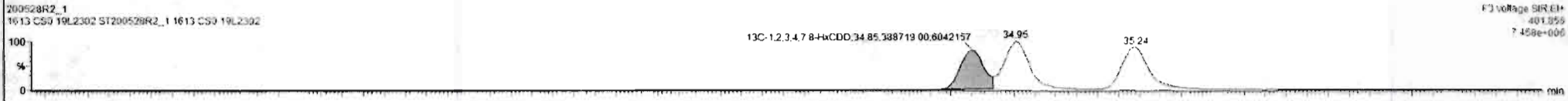
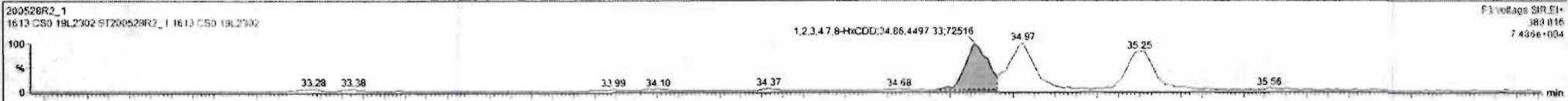
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7.458e+006

200528R2\_1



F3:Voltage SIR,EI+  
403.853  
5.971e+006

Name	Resp	RA	Rel	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.78e3	0.56	NO	0.8583	1.000	26.54	1.000	0.213	35.2	0.0247	0.213
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3 1,2,3,4,7,8-HxCDD	0.03e3	1.27	NO	1.0334	1.000	34.86	1.000	1.12	89.4	0.0428	1.12
4 1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5 1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8865	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6 1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8539	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7 OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8 2,3,7,8-TCDF	3.23e3	0.73	NO	0.7510	1.000	25.87	1.001	0.223	39.1	0.0142	0.223
9 1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0309	1.09
10 2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11 1,2,3,4,7,8-HxCDF	6.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12 1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8562	1.000	34.11	1.001	1.12	89.2	0.0334	1.12
13 2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14 1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8787	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15 1,2,3,4,5,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16 1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.02	81.8	0.0523	1.02
17 OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18 13C-2,3,7,8-TCDD	1.43e6	0.30	NO	1.1563	1.000	26.54	1.026	111	111	0.0632	
19 13C-1,2,3,7,8-PeCDD	1.00e6	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	108	108	0.243	



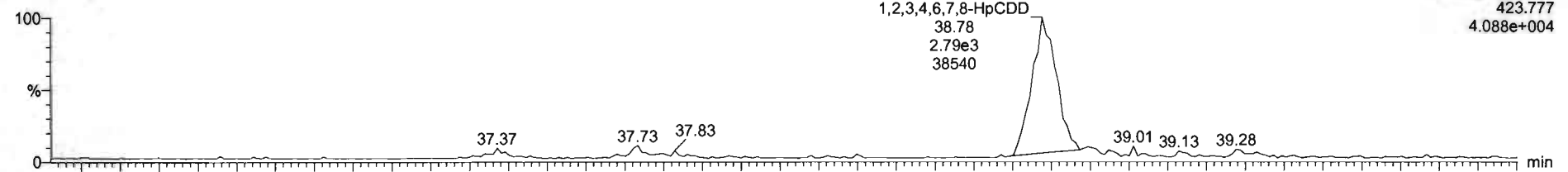
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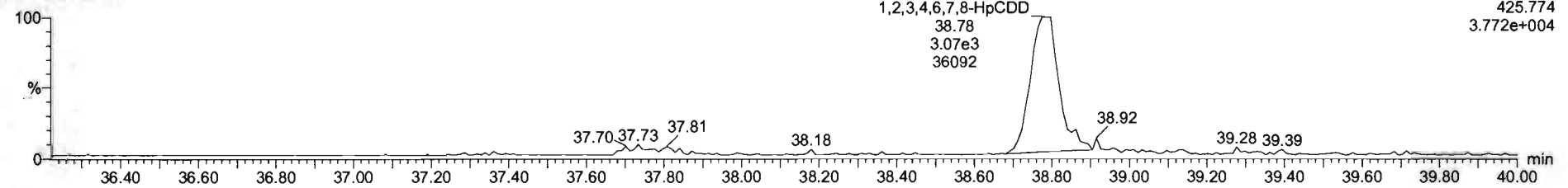
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1,2,3,4,6,7,8-HpCDD

200528R2\_1

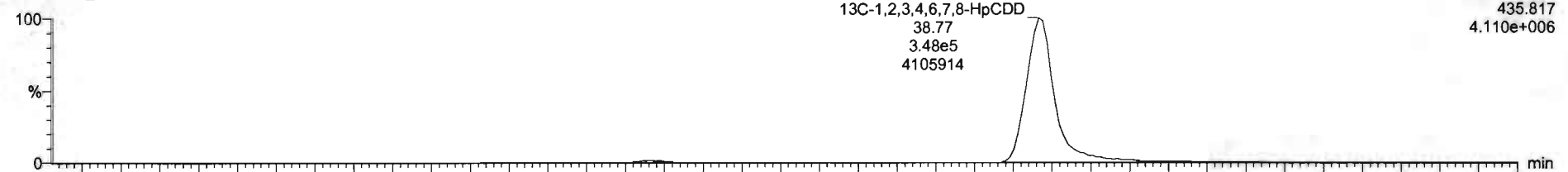


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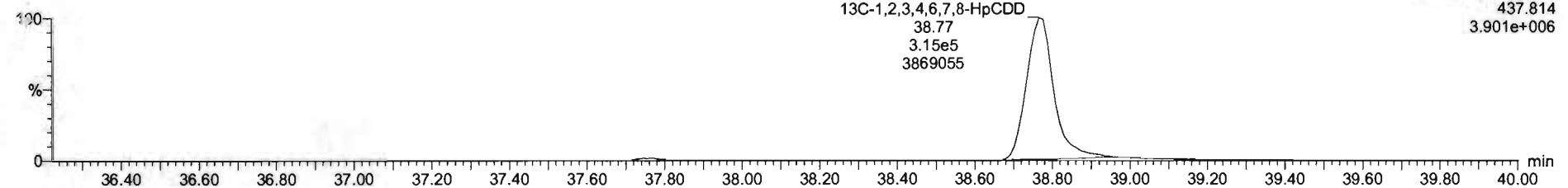


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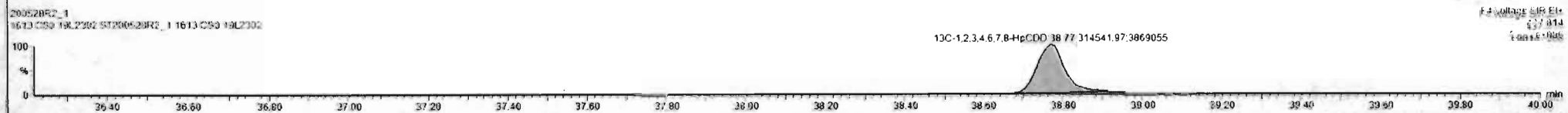


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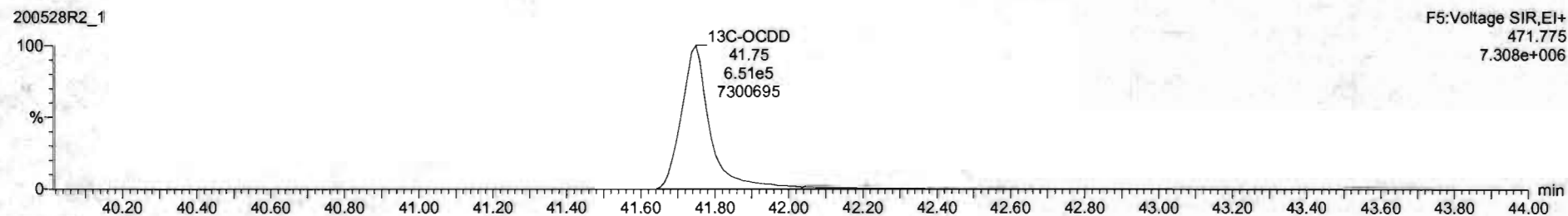
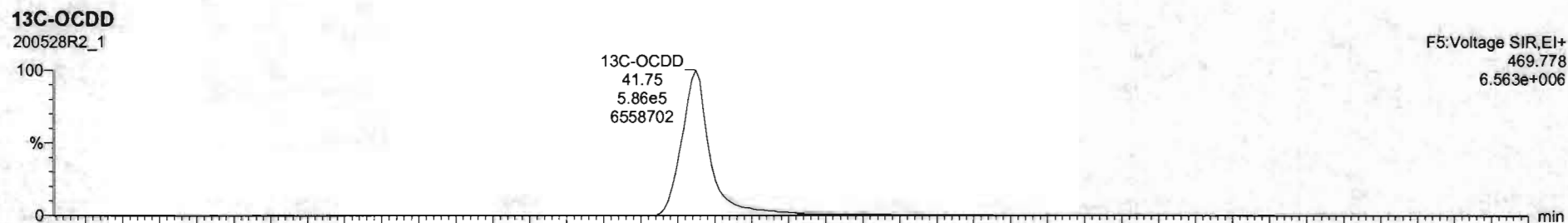
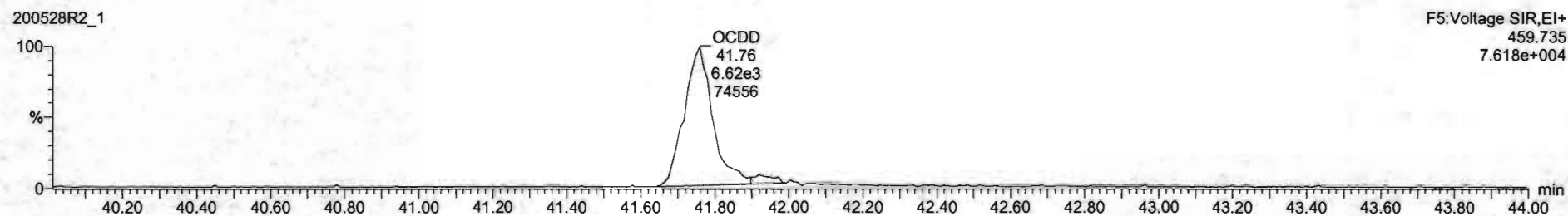
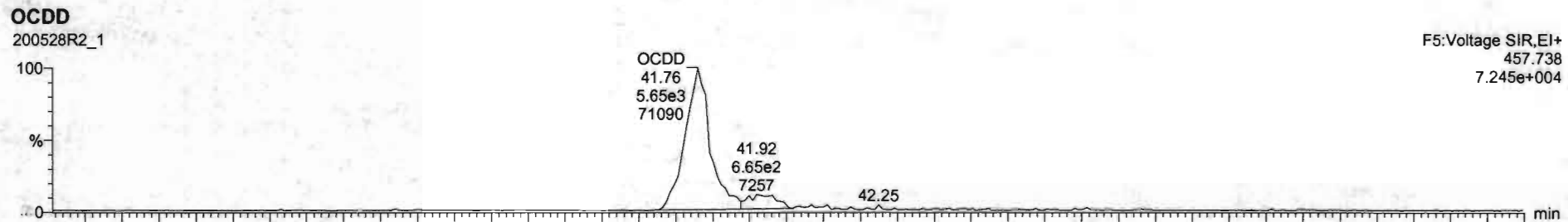
SI	Name	Reap	RA	nty	RRF	wtdvol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.70e3	0.58	NO	0.8583	1.000	26.54	1.000	0.212	88.2	0.0247	0.212
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0282	1.12
3	1,2,3,4,7,8-HxCDD	5.02e3	1.27	NO	1.0324	1.000	34.86	1.000	1.12	69.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	6.14e3	1.30	NO	0.8065	1.000	35.25	1.000	1.10	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	0.0506	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.70	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.323	89.1	0.0142	0.222
9	1,2,3,7,8-PeCDF	1.46e4	1.51	NO	0.8925	1.000	30.20	1.000	1.09	67.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	6.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8052	1.000	34.11	1.001	1.12	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	0.0379	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	



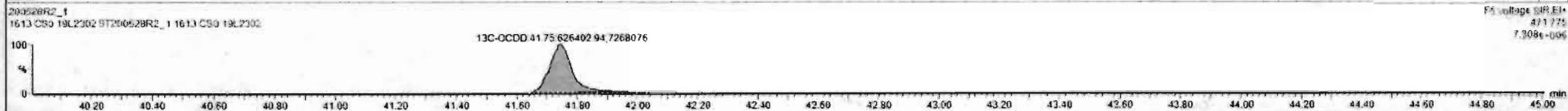
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Name: 200528R2\_1, Date: 28-May-2020, Time: 11:53:52, ID: ST200528R2\_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



#	Name	Resp	RA	nHy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.70e3	0.68	NO	0.8863	1.000	26.54	1.000	0.212	85.2	0.0247	0.213
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3	1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0334	1.000	34.06	1.000	1.12	89.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8523	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8205	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9138	1.000	41.78	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0142	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9346	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	8.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.03	86.2	0.0369	1.08
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

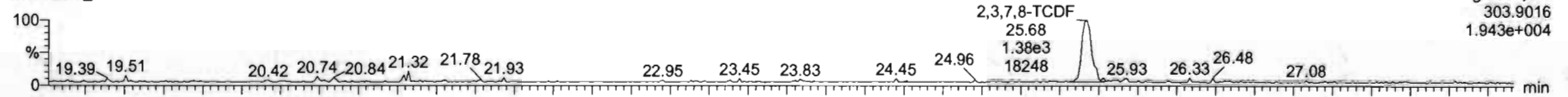
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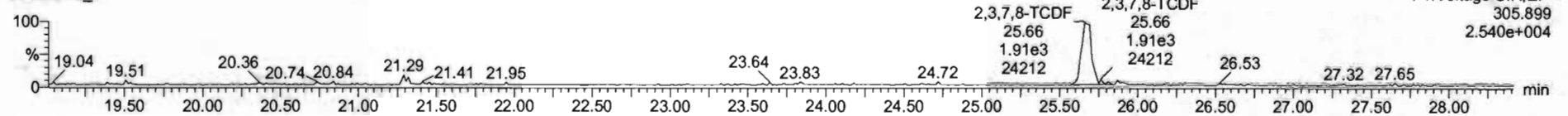
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**2,3,7,8-TCDF**

200528R2\_1

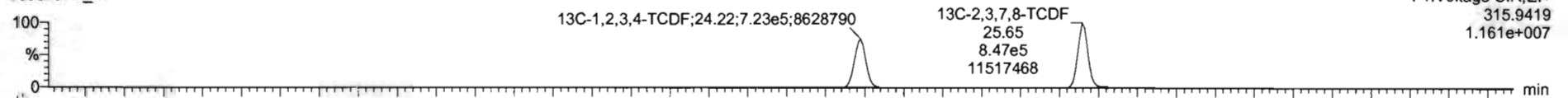


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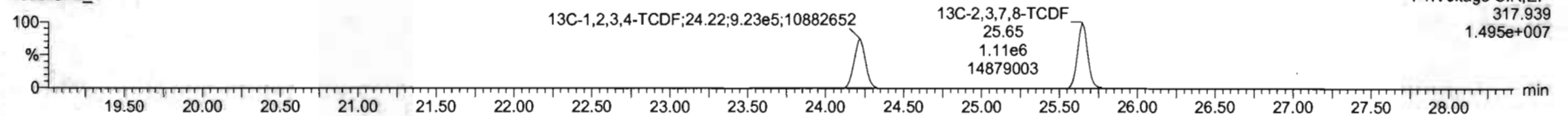


**13C-2,3,7,8-TCDF**

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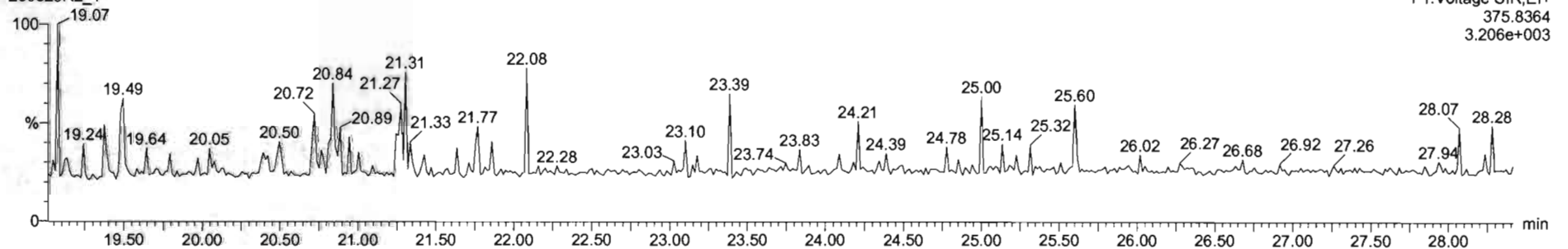


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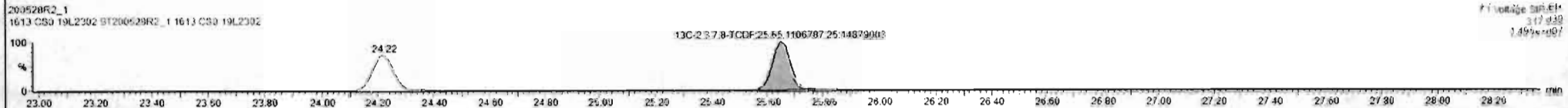
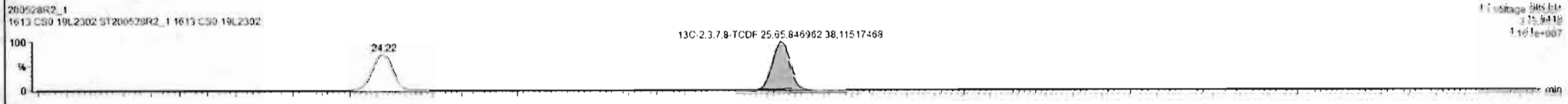
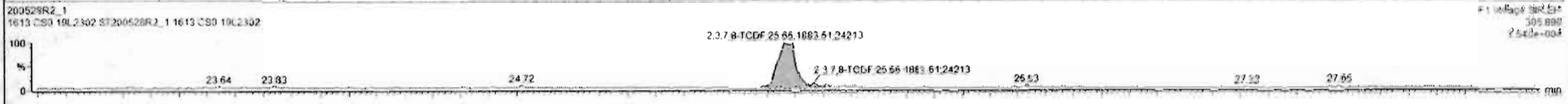
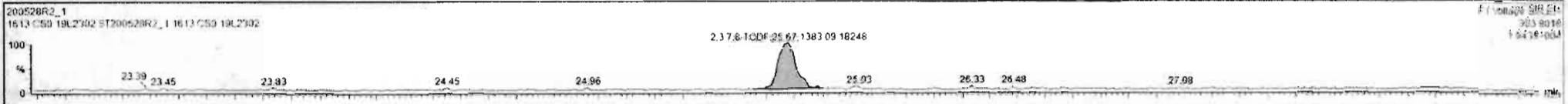
**DPE1**

200528R2\_1





#	Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.70e3	0.68	NO	0.8883	1.000	26.54	1.000	0.212	95.2	0.0247	0.212
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	21.50	1.000	1.12	90.6	0.0292	1.12
3	1,2,3,4,7,8-HxCDD	8.03e2	1.27	NO	1.0334	1.000	34.96	1.000	1.12	89.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.13	89.7	0.0465	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8865	1.000	35.25	1.000	1.10	88.1	0.0454	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0140	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	20.20	1.006	1.09	87.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	8.95e3	1.25	NO	0.8845	1.000	33.99	1.001	1.03	86.2	0.0369	1.03
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8862	1.000	34.11	1.001	1.12	89.3	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14	1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0624	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0126	1.000	39.33	1.001	1.02	61.6	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8085	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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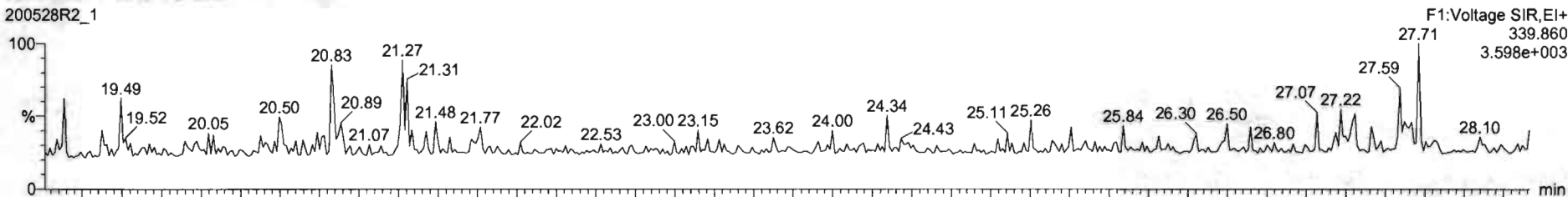
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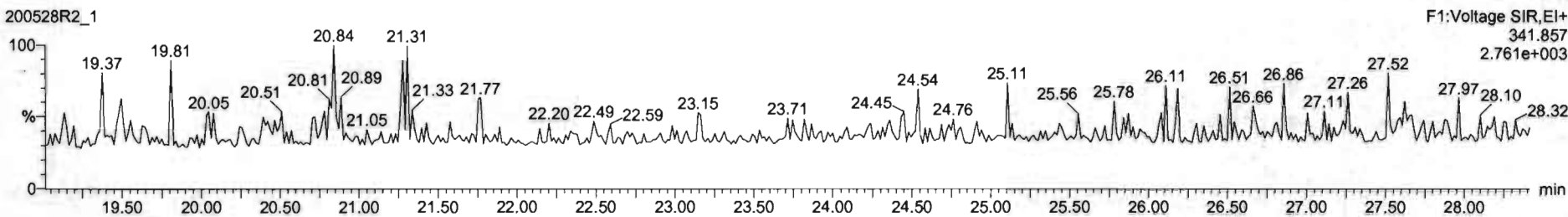
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1st Func. Penta-Furans

200528R2\_1

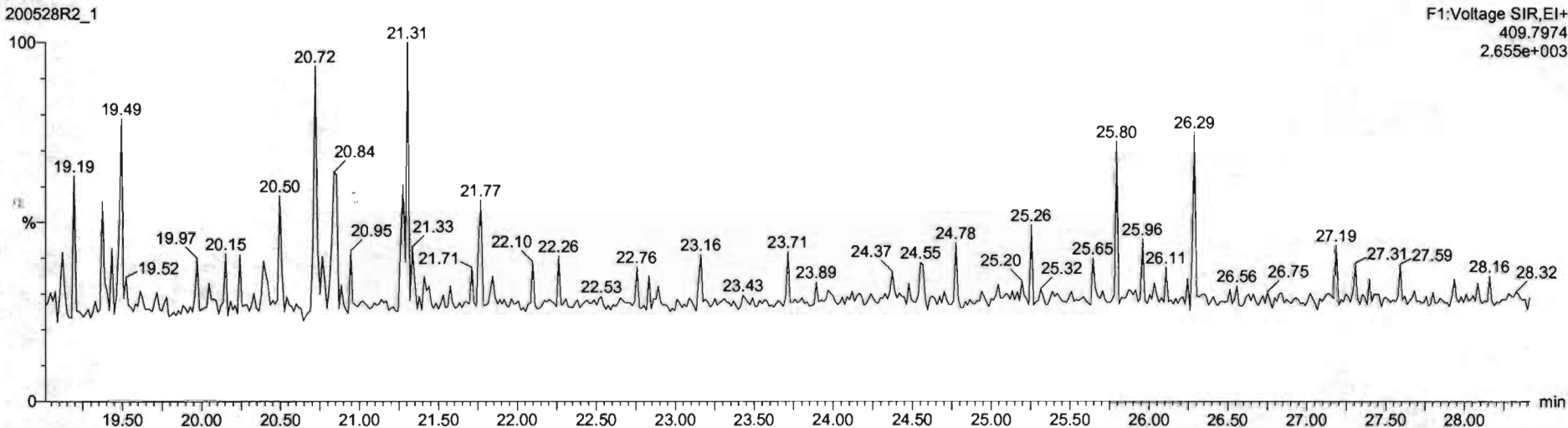


200528R2\_1



DPE6

200528R2\_1



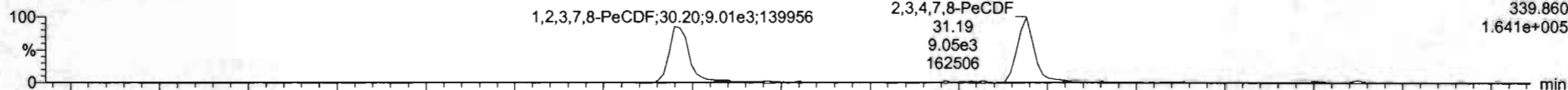
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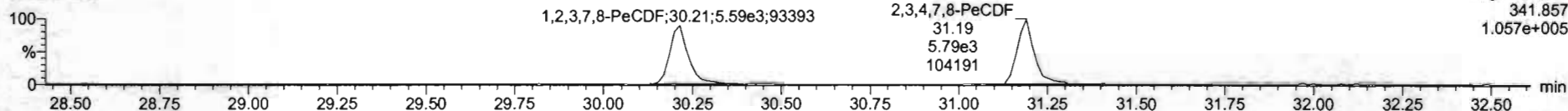
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200528R2\_1



F2: Voltage SIR, EI+  
339.860  
1.641e+005

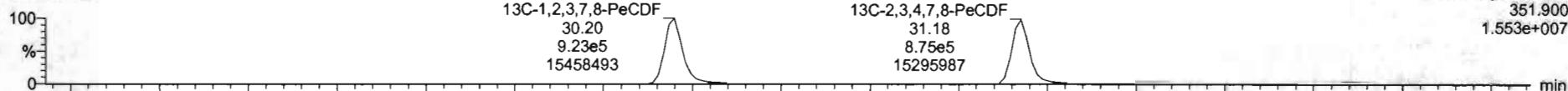
200528R2\_1



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1.057e+005

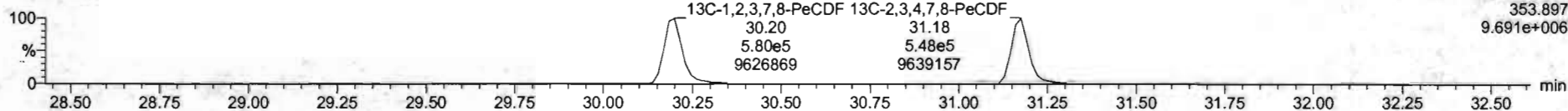
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200528R2\_1



F2: Voltage SIR, EI+  
351.900  
1.553e+007

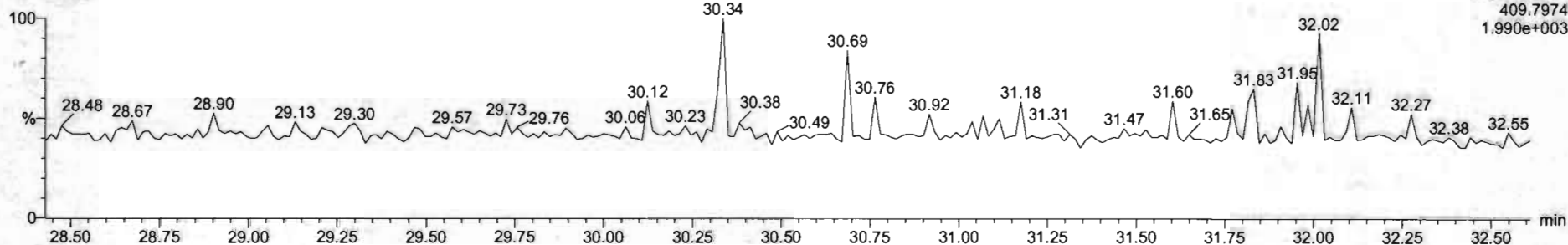
200528R2\_1



F2: Voltage SIR, EI+  
353.897  
9.691e+006

**DPE2**

200528R2\_1



F2: Voltage SIR, EI+  
409.7974  
1.990e+003

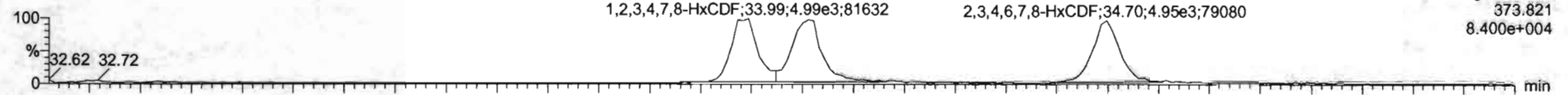
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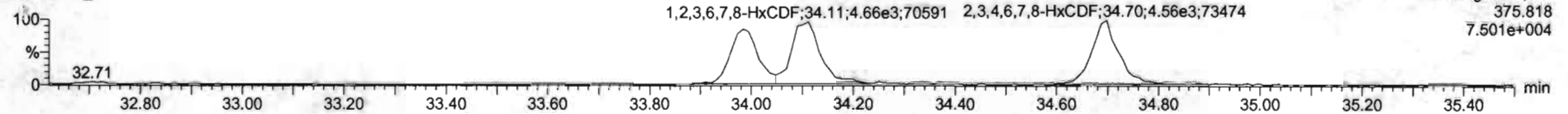
**1,2,3,4,7,8-HxCDF**

200528R2\_1



F3:Voltage SIR,EI+  
373.821  
8.400e+004

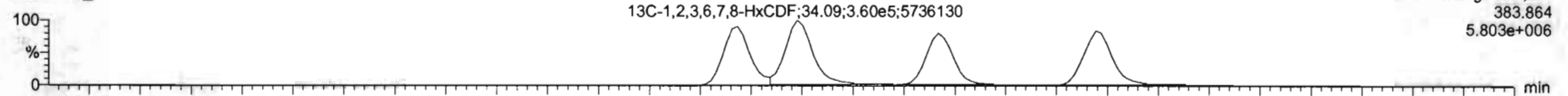
200528R2\_1



F3:Voltage SIR,EI+  
375.818  
7.501e+004

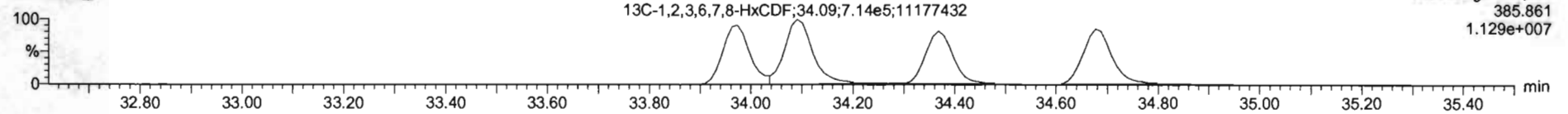
**13C-1,2,3,4,7,8-HxCDF**

200528R2\_1



F3:Voltage SIR,EI+  
383.864  
5.803e+006

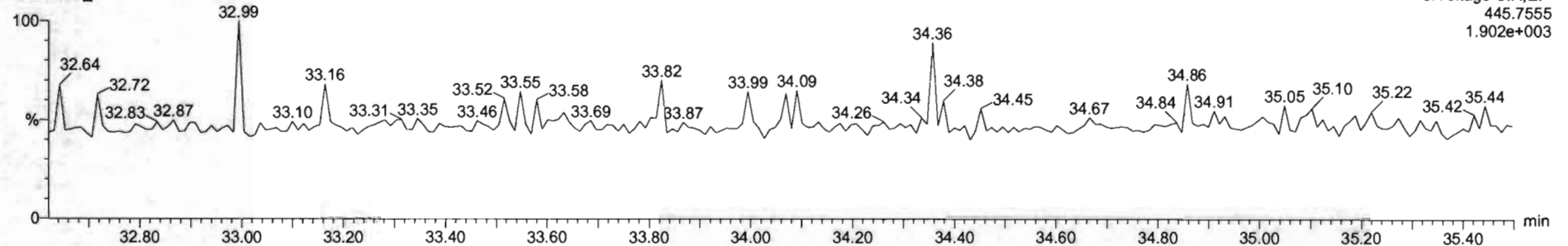
200528R2\_1



F3:Voltage SIR,EI+  
385.861  
1.129e+007

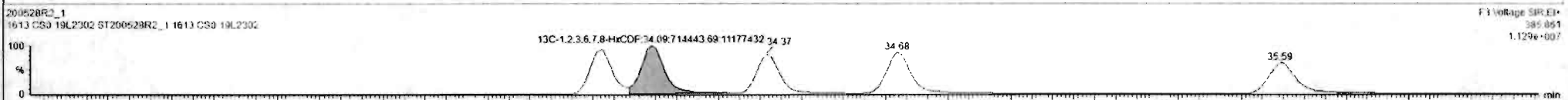
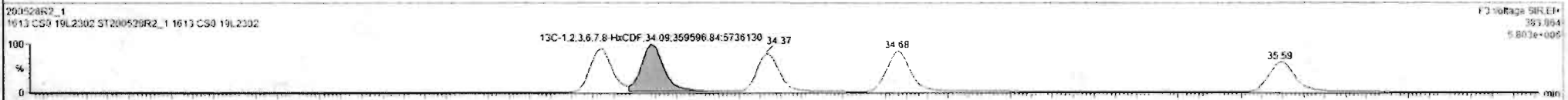
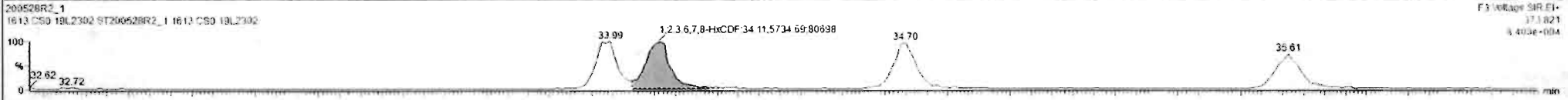
**DPE3**

200528R2\_1



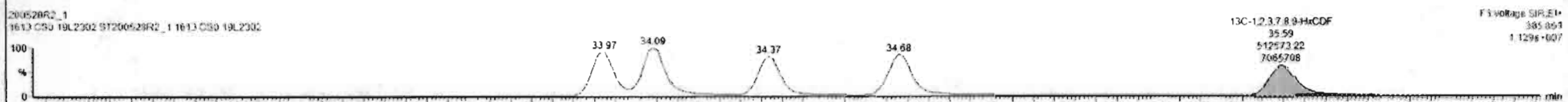
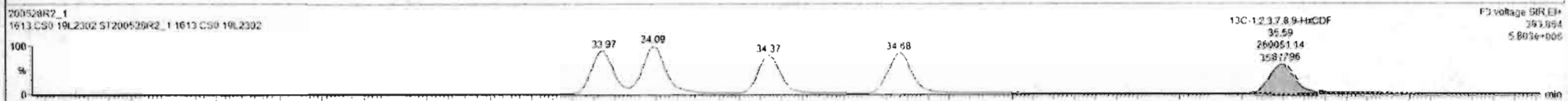
F3:Voltage SIR,EI+  
445.7555  
1.902e+003

Name	Resp	RA	inj	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.70e3	0.58	NO	0.8883	1.000	26.54	1.000	0.213	85.2	0.0247	0.213
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.6051	1.000	31.50	1.000	1.12	90.0	0.0292	1.12
3 1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0324	1.000	24.86	1.000	1.12	89.4	0.0426	1.12
4 1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5 1,2,3,7,8,9-HxCDD	5.14e3	1.20	NO	0.8265	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6 1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	38.78	1.000	1.09	87.2	0.0566	1.09
7 OCDD	1.23e4	0.85	NO	0.9126	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8 2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	26.67	1.001	0.223	89.1	0.0147	0.223
9 1,2,3,7,8-PeCDF	1.46e4	1.81	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	5.56e3	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	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	1.43e6	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	0.8450	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	



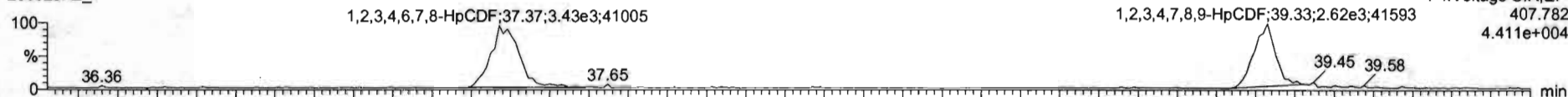
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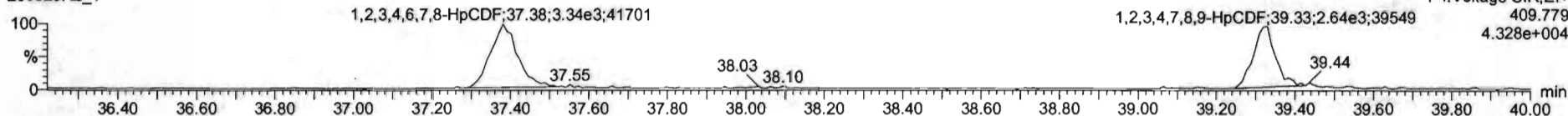
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200528R2\_1



F4: Voltage SIR, EI+  
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4.411e+004

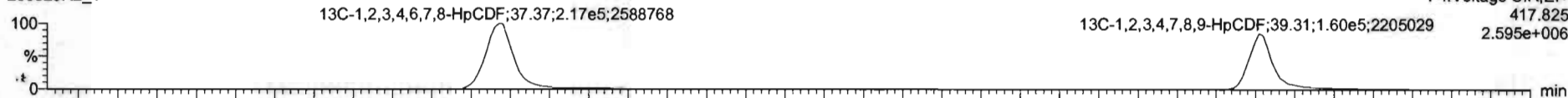
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F4: Voltage SIR, EI+  
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4.328e+004

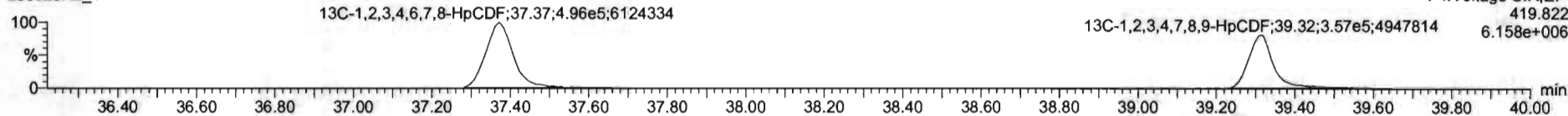
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200528R2\_1



F4: Voltage SIR, EI+  
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2.595e+006

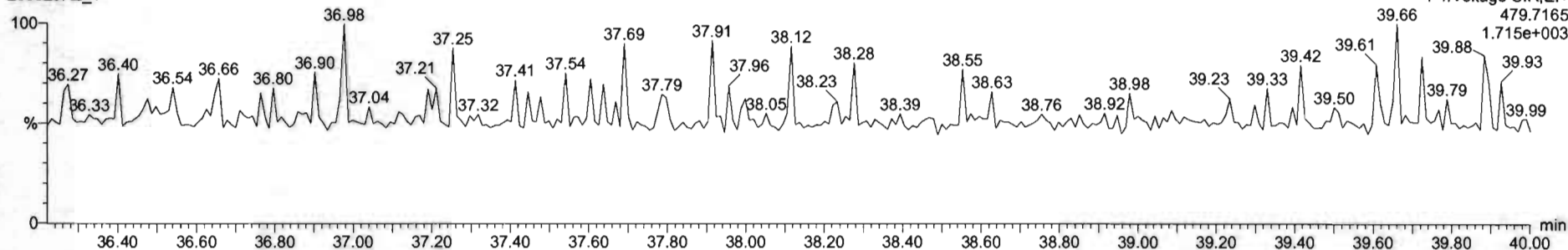
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F4: Voltage SIR, EI+  
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6.158e+006

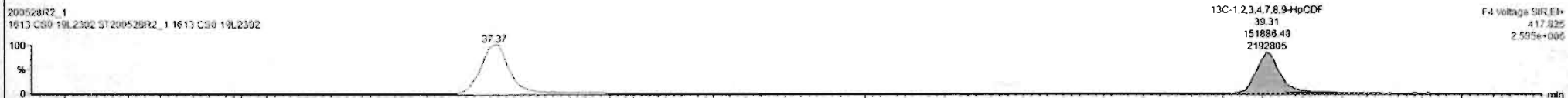
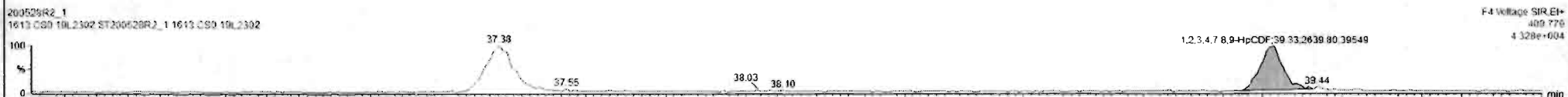
CPE4

200528R2\_1



F4: Voltage SIR, EI+  
479.7165  
1.715e+003

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	

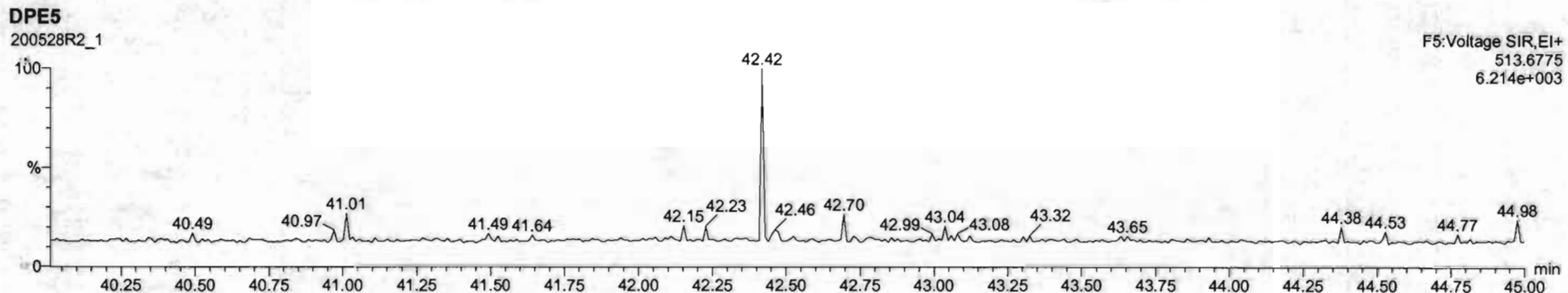
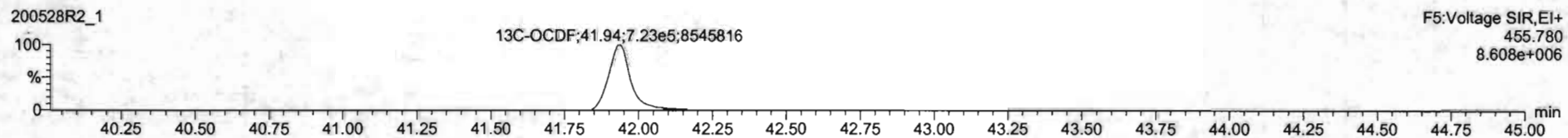
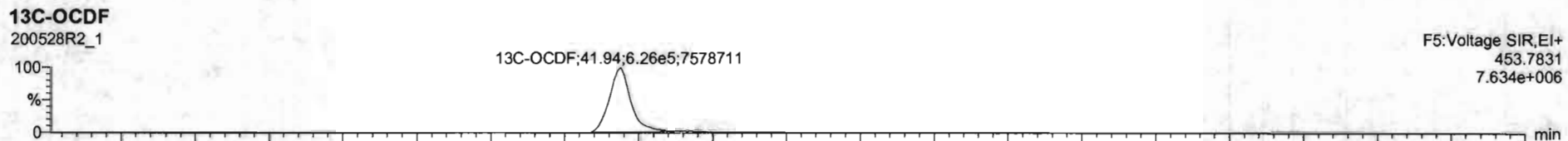
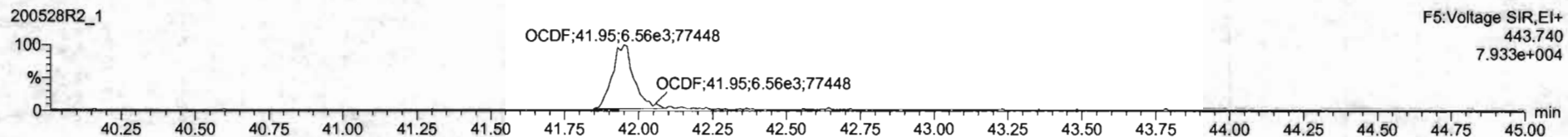
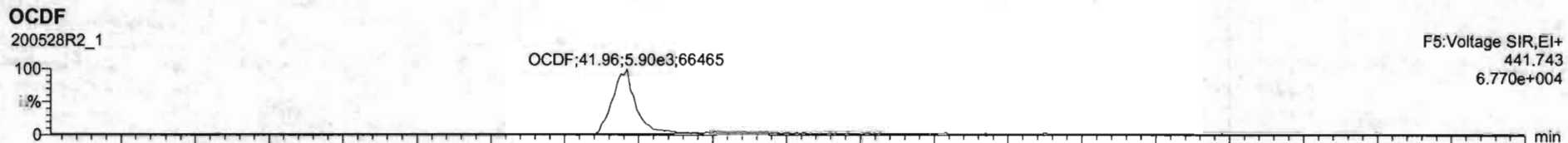




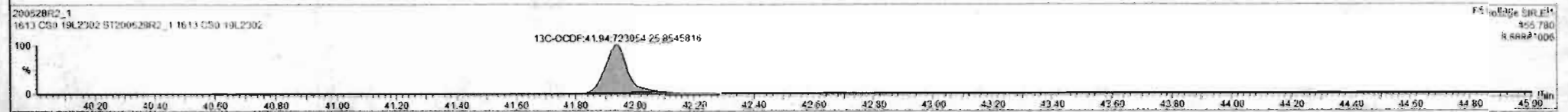
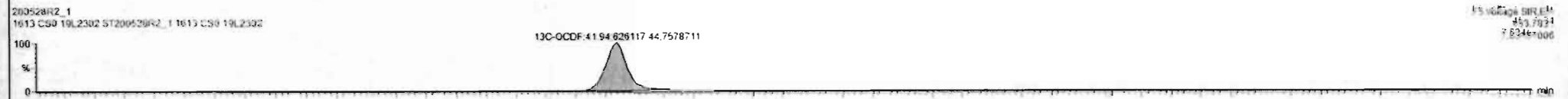
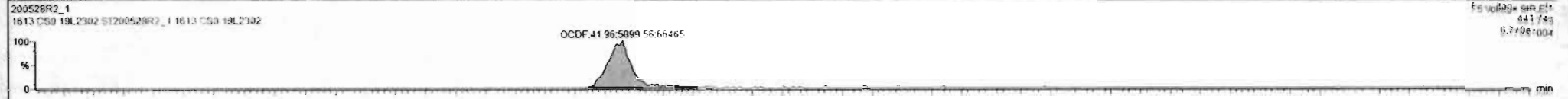
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

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	0.8523	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	0.056E	1.09
7 OCDD	1.23e4	0.88	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8 2,3,7,8-TCDF	3.27e3	0.75	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0142	0.223
9 1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0269	1.09
10 2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11 1,2,3,4,7,8-HxCDF	6.98e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12 1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8892	1.000	24.11	1.001	1.12	89.7	0.0334	1.12
13 2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14 1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15 1,2,3,4,5,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	88.9	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	

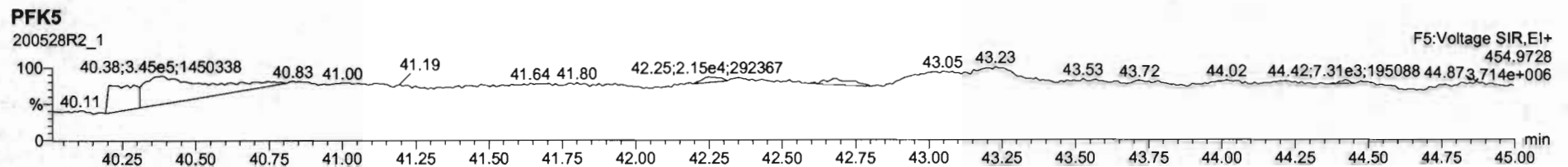
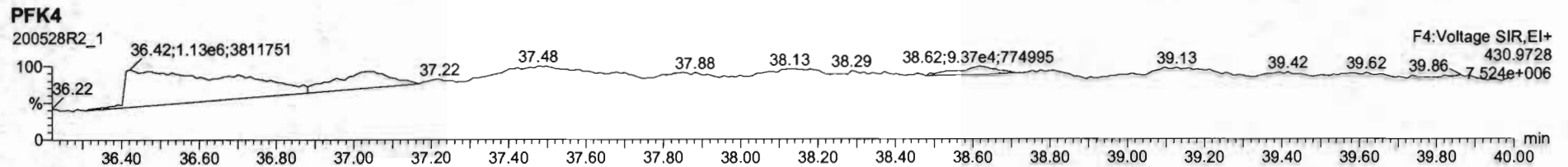
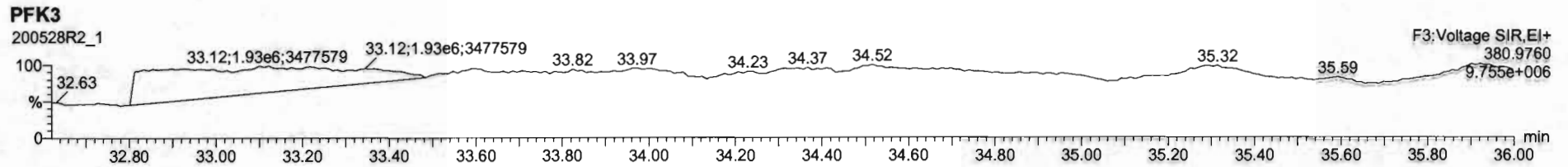
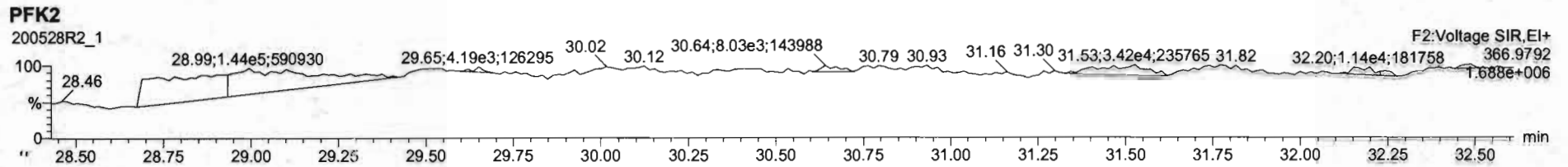
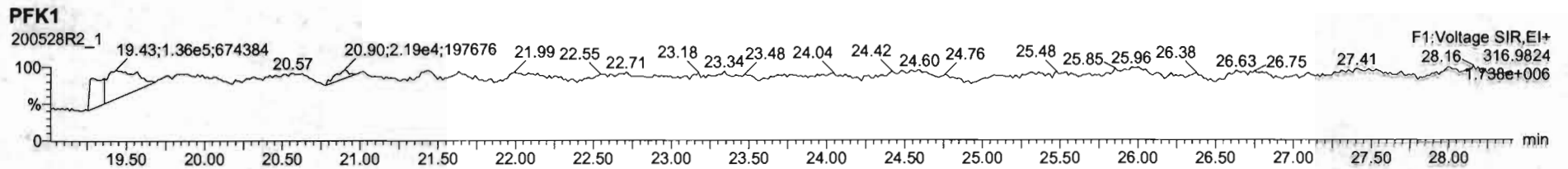


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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2\_1, Date: 28-May-2020, Time: 11:53:52, ID: ST200528R2\_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



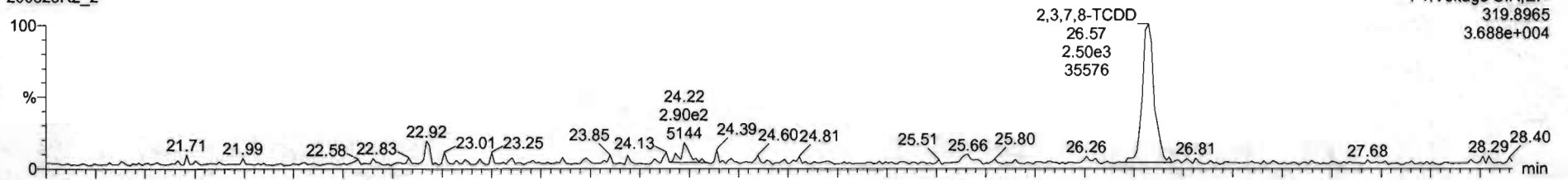
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Name: 200528R2\_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2\_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

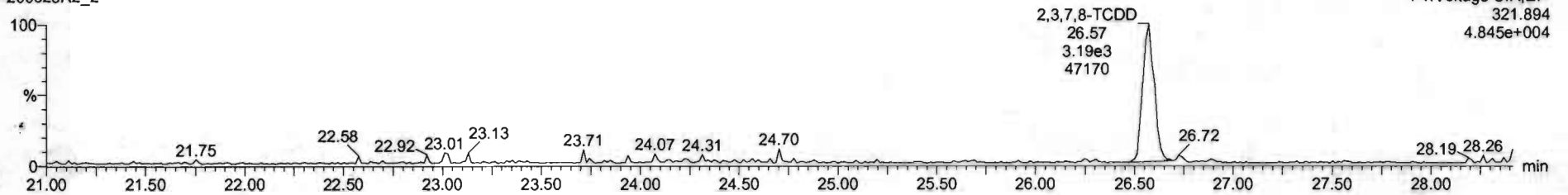
**2,3,7,8-TCDD**

200528R2\_2



F1:Voltage SIR,EI+  
319.8965  
3.688e+004

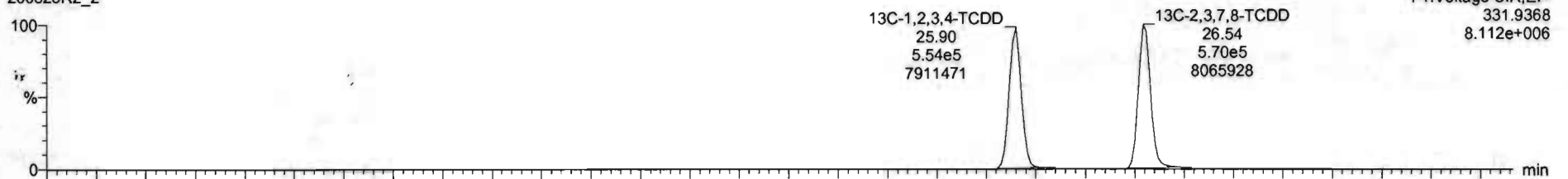
200528R2\_2



F1:Voltage SIR,EI+  
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4.845e+004

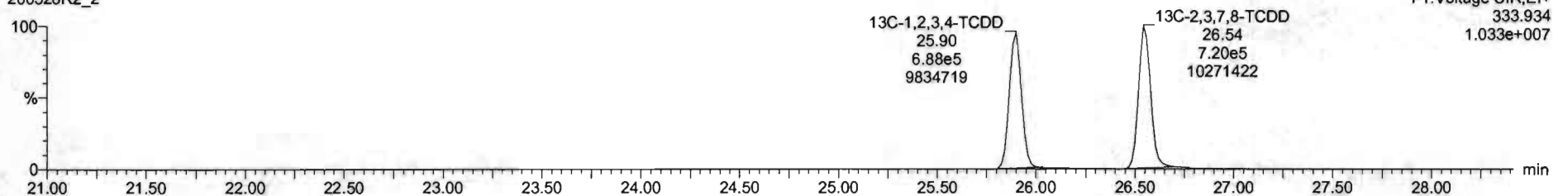
**13C-2,3,7,8-TCDD**

200528R2\_2



F1:Voltage SIR,EI+  
331.9368  
8.112e+006

200528R2\_2



F1:Voltage SIR,EI+  
333.934  
1.033e+007

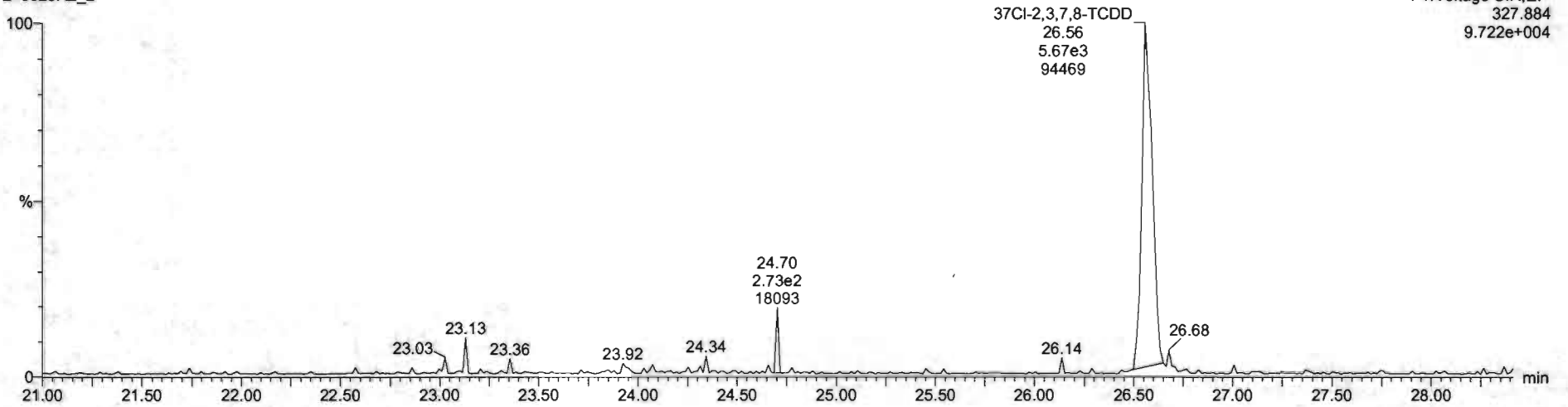
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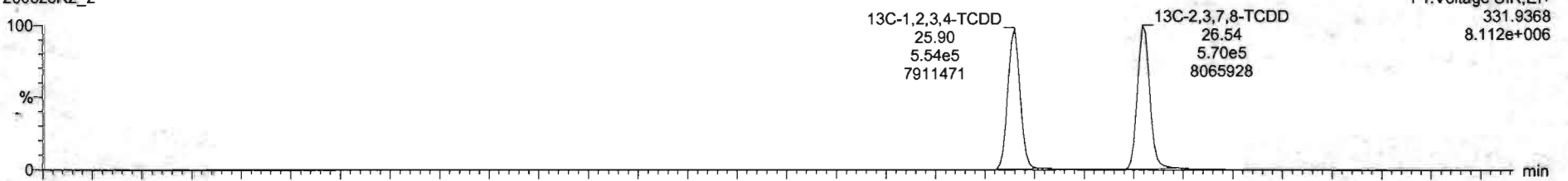
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200528R2\_2

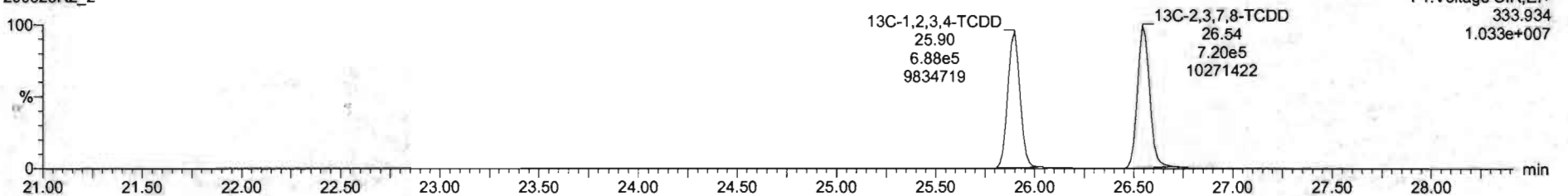


13C-1,2,3,4-TCDD

200528R2\_2



200528R2\_2





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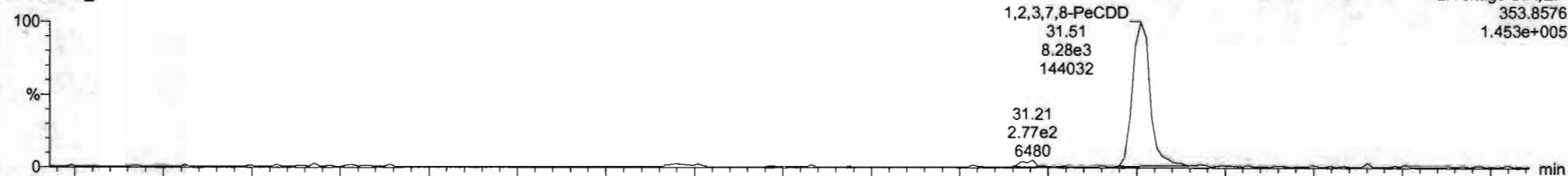
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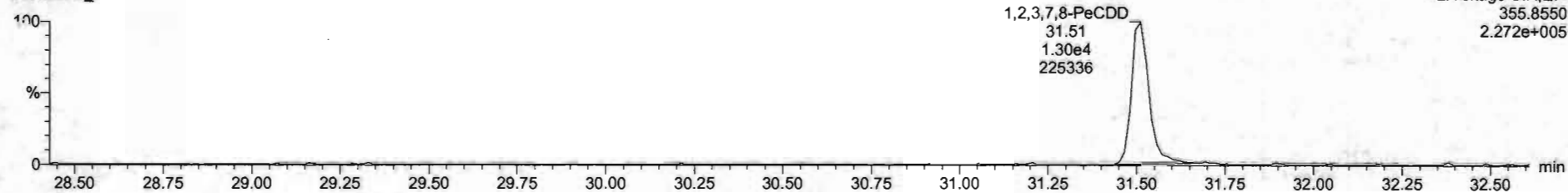
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**1,2,3,7,8-PeCDD**

200528R2\_2

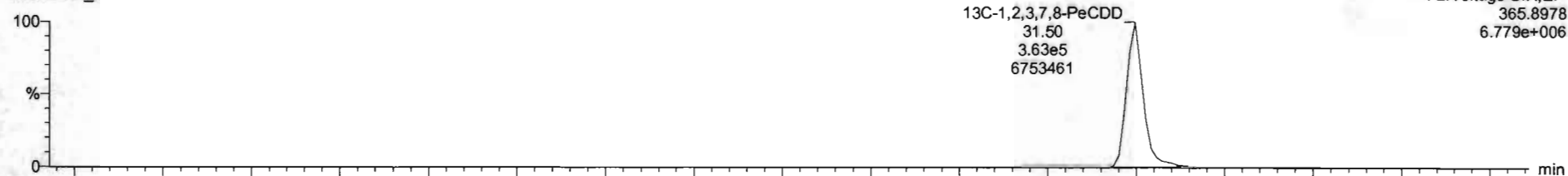


200528R2\_2

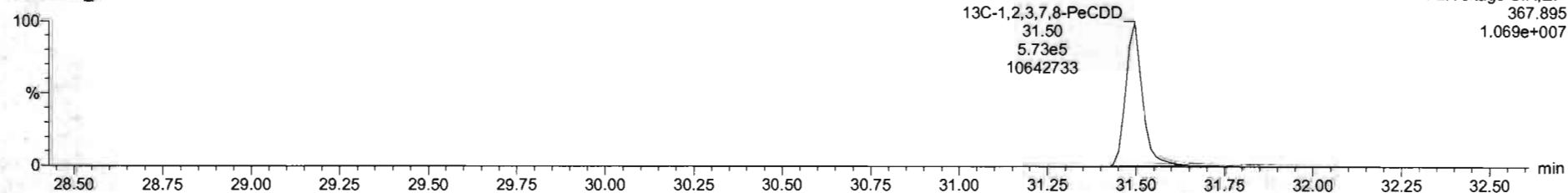


**13C-1,2,3,7,8-PeCDD**

200528R2\_2



200528R2\_2



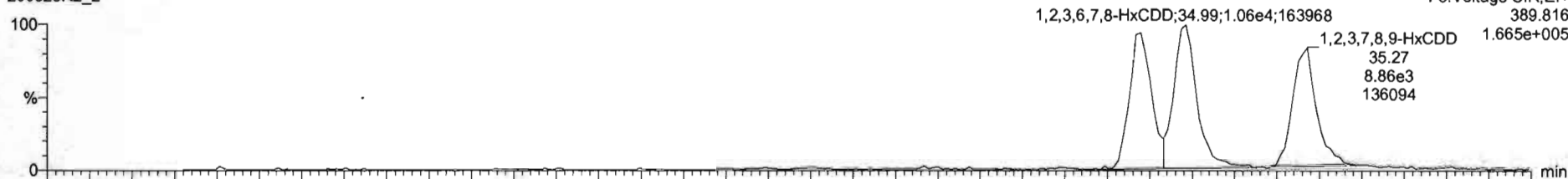
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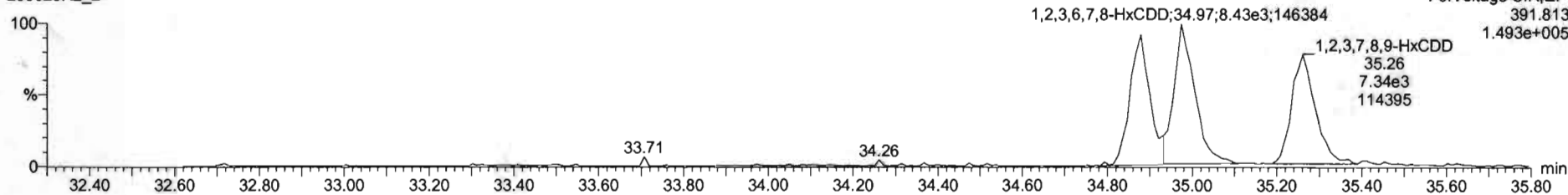
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**1,2,3,4,7,8-HxCDD**

200528R2\_2

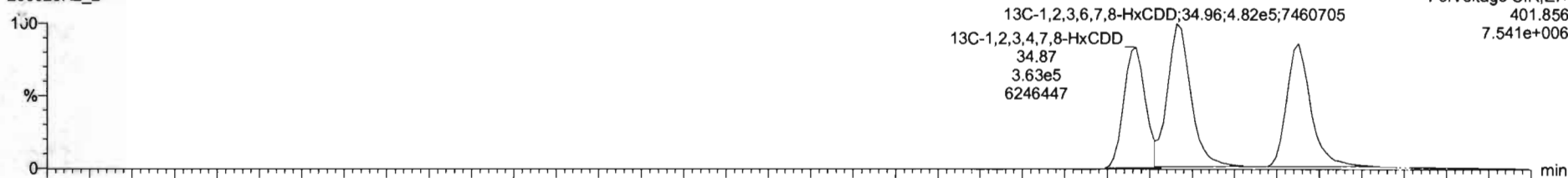


200528R2\_2

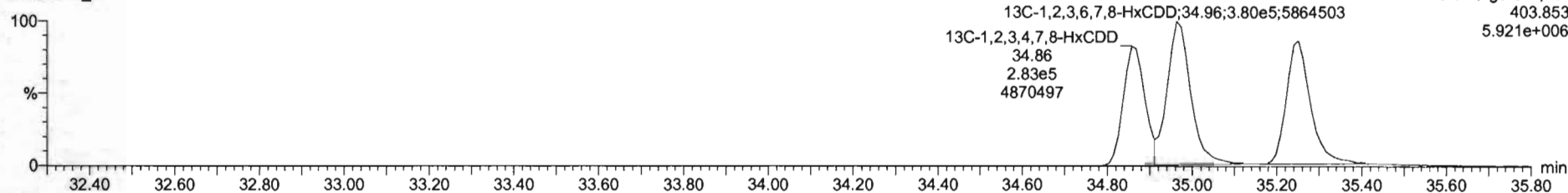


**13C-1,2,3,4,7,8-HxCDD**

200528R2\_2



200528R2\_2



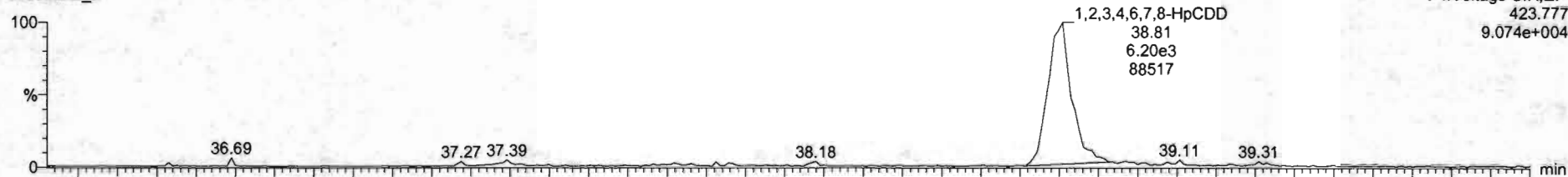
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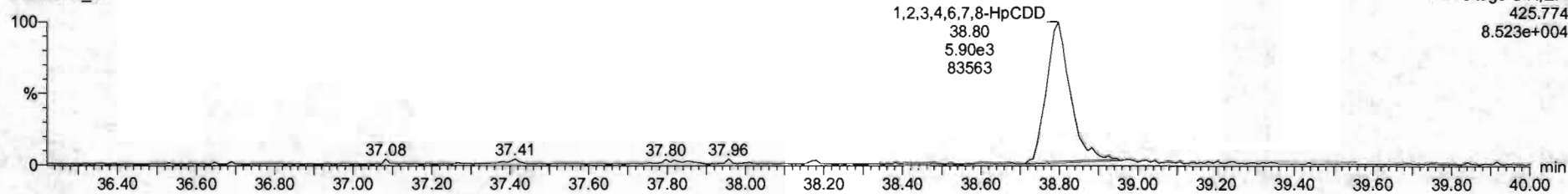
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**1,2,3,4,6,7,8-HpCDD**

200528R2\_2

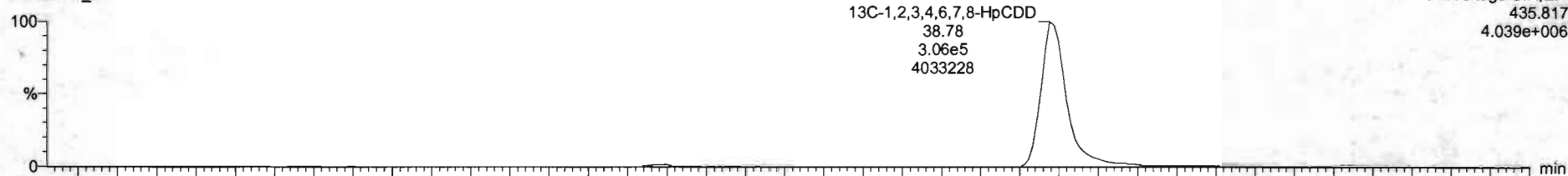


200528R2\_2

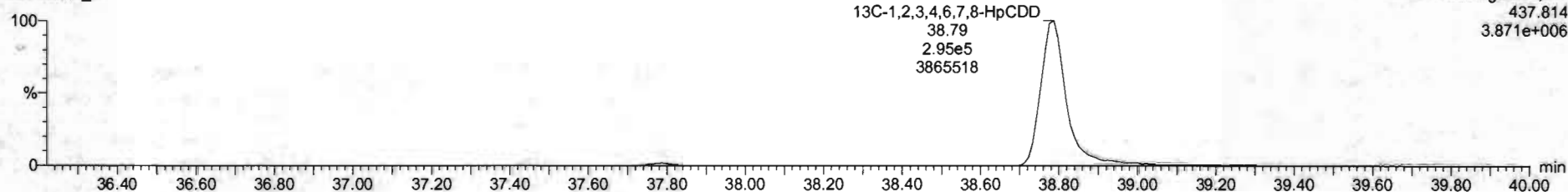


**13C-1,2,3,4,6,7,8-HpCDD**

200528R2\_2



200528R2\_2



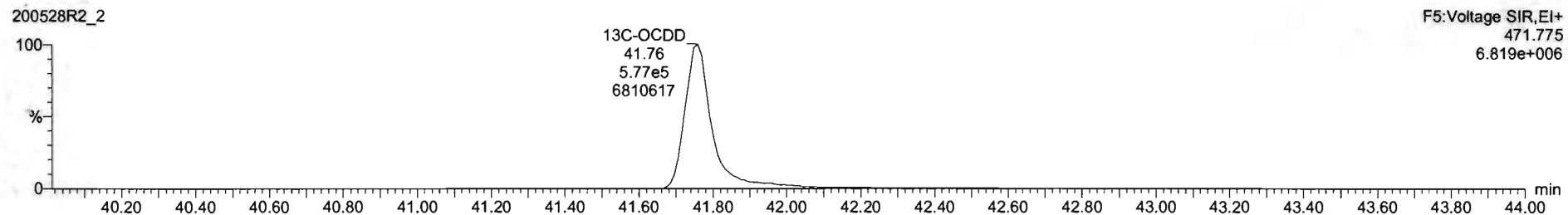
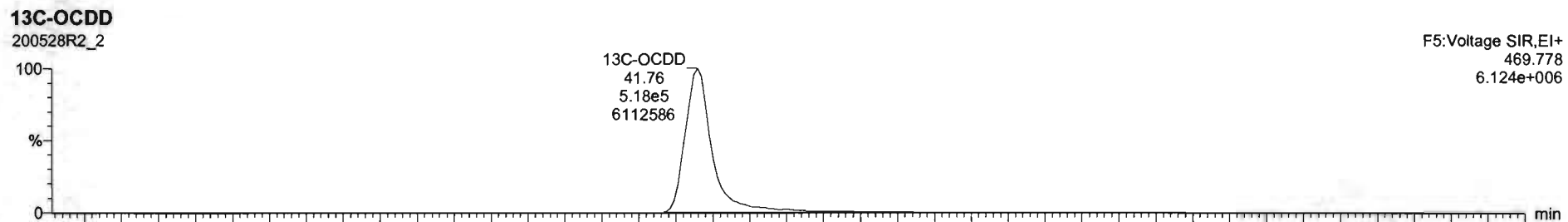
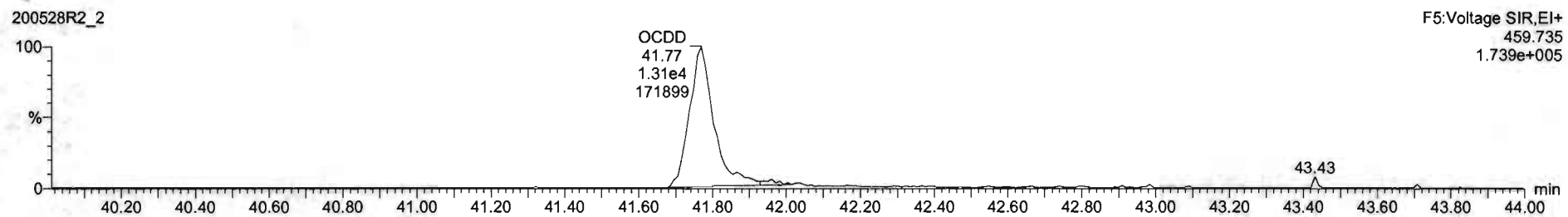
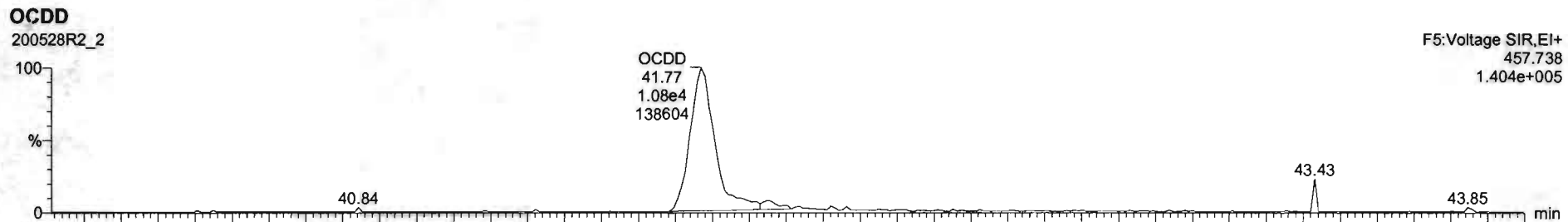


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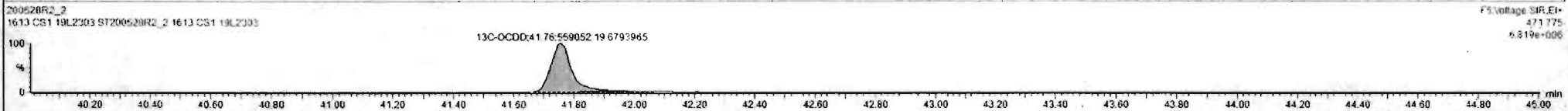
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Name: 200528R2\_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2\_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303



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	98.5	0.0747	2.47
5 1,2,3,7,8,9-HxCDD	1.62e4	1.21	NO	0.8865	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6 1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8639	1.000	36.61	1.001	2.33	93.3	0.0613	2.33
7 OCDD	2.39e4	0.83	NO	0.9136	1.000	41.77	1.000	4.97	98.4	0.149	4.97
8 2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.483	97.7	0.0670	0.483
9 1,2,3,7,8-PeCDF	3.08e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10 2,3,4,7,8-PeCDF	3.19e4	1.55	NO	0.9348	1.000	31.21	1.000	2.52	101	0.0395	2.52
11 1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8545	1.000	33.99	1.000	2.41	96.3	0.0665	2.41
12 1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.8892	1.000	34.12	1.000	2.50	100	0.0642	2.50
13 2,3,4,6,7,8-HxCDF	1.93e4	1.26	NO	0.9241	1.000	34.71	1.001	2.38	96.3	0.0702	2.38
14 1,2,3,7,8,9-HxCDF	1.48e4	1.12	NO	0.8707	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15 1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16 1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0128	1.000	39.32	1.000	2.33	93.3	0.0630	2.33
17 OCDF	2.40e4	0.84	NO	0.8065	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18 13C-2,3,7,8-TCDD	1.29e6	0.79	NO	1.1563	1.000	26.54	1.025	89.3	89.8	0.0928	
19 13C-1,2,3,7,8-PeCDD	9.36e5	0.83	NO	0.8490	1.000	31.50	1.216	86.7	88.7	0.113	
20 13C-1,2,3,4,7,8-HxCDD	6.46e5	1.28	NO	0.7790	1.000	34.87	1.014	85.9	85.9	0.183	
21 13C-1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0187	1.000	34.95	1.017	87.7	87.7	0.140	



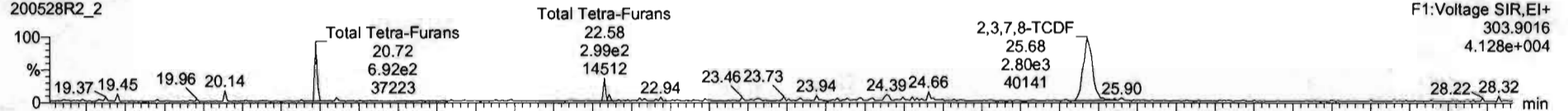
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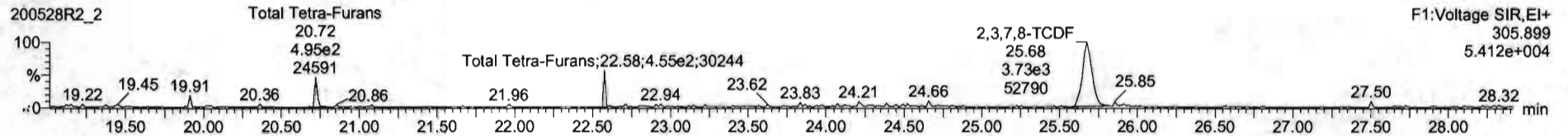
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**2,3,7,8-TCDF**

200528R2\_2

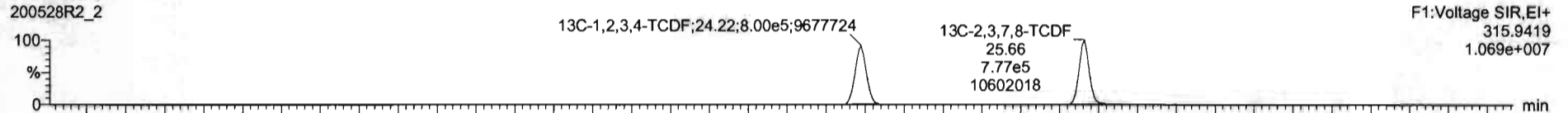


200528R2\_2

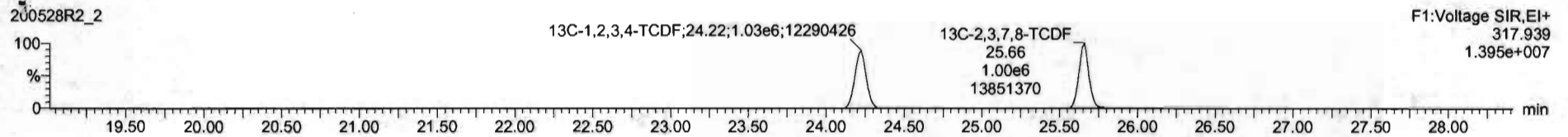


**13C-2,3,7,8-TCDF**

200528R2\_2

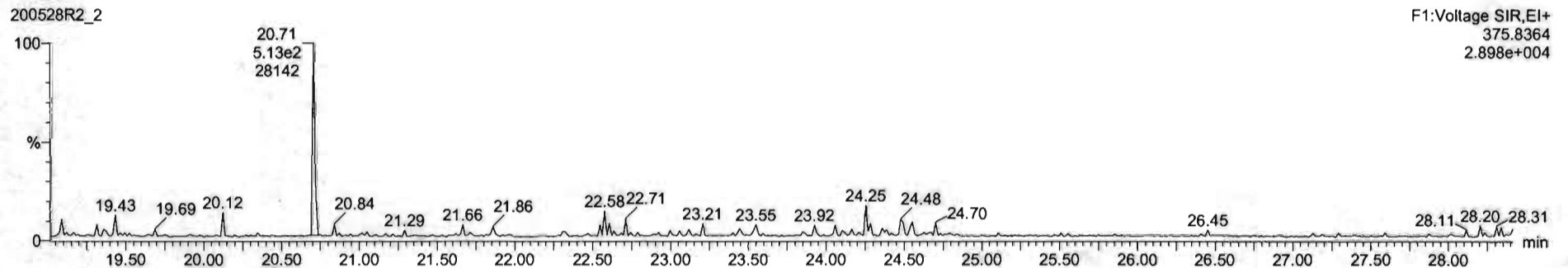


200528R2\_2



**DPE1**

200528R2\_2



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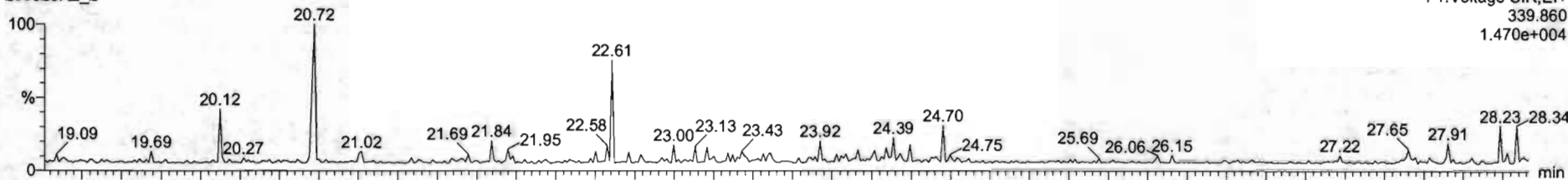
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Name: 200528R2\_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2\_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

1st Func. Penta-Furans

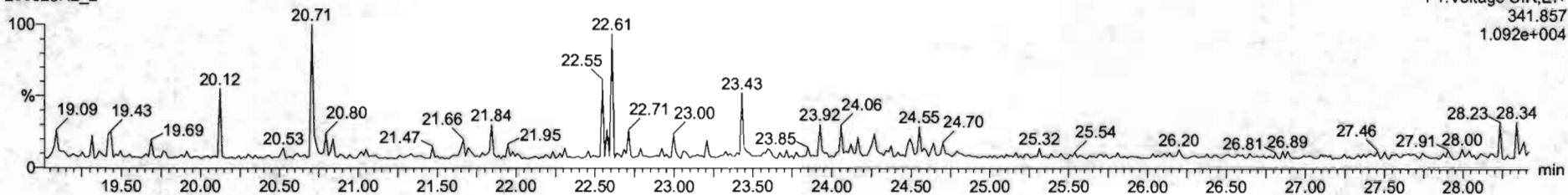
200528R2\_2

F1:Voltage SIR,EI+  
339.860  
1.470e+004



200528R2\_2

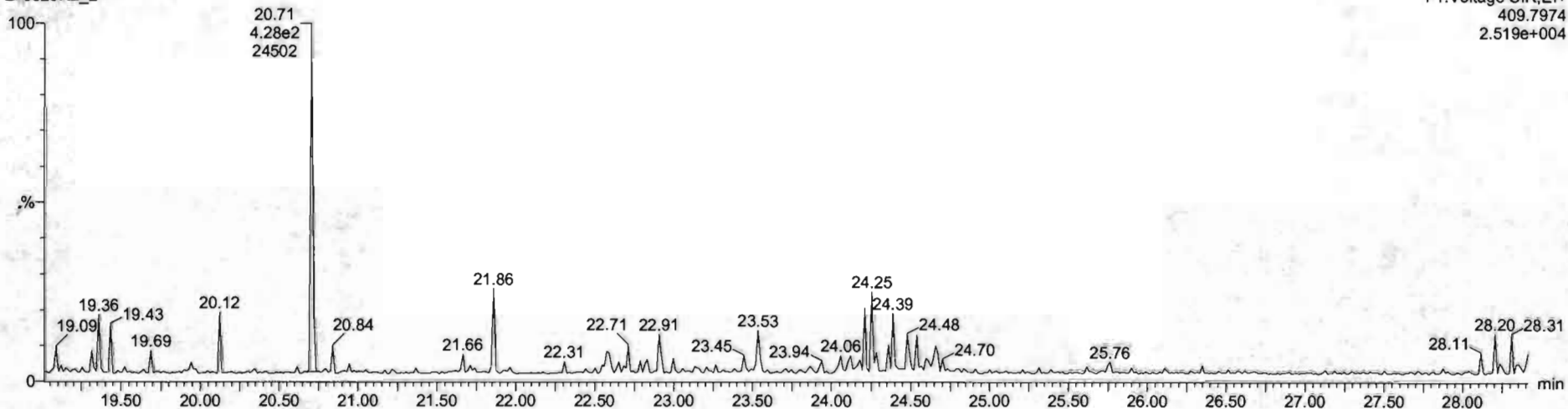
F1:Voltage SIR,EI+  
341.857  
1.092e+004



DPE6

200528R2\_2

F1:Voltage SIR,EI+  
409.7974  
2.519e+004



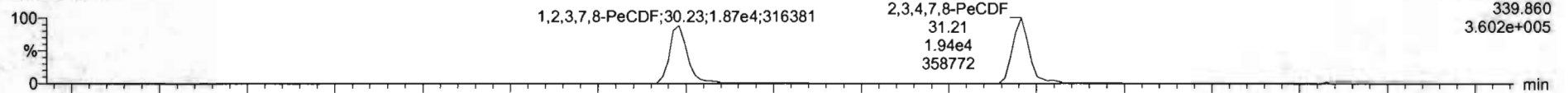
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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time  
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2\_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2\_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

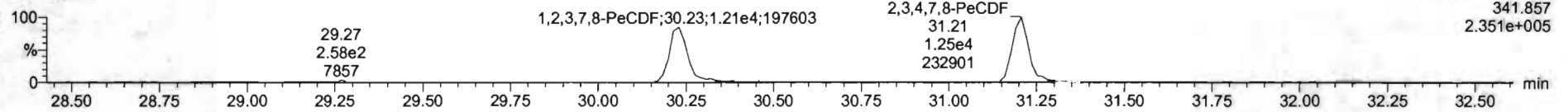
**1,2,3,7,8-PeCDF**

200528R2\_2



F2:Voltage SIR,EI+  
339.860  
3.602e+005

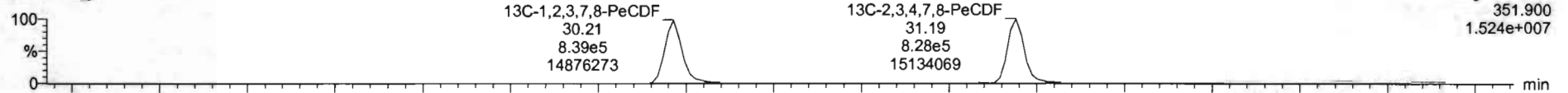
200528R2\_2



F2:Voltage SIR,EI+  
341.857  
2.351e+005

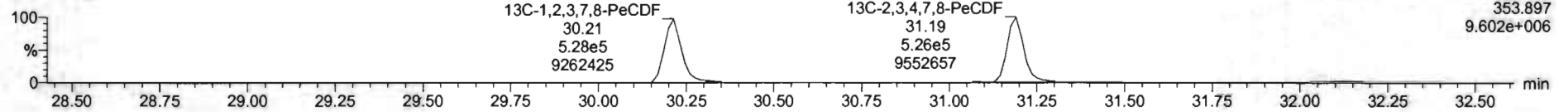
**13C-1,2,3,7,8-PeCDF**

200528R2\_2



F2:Voltage SIR,EI+  
351.900  
1.524e+007

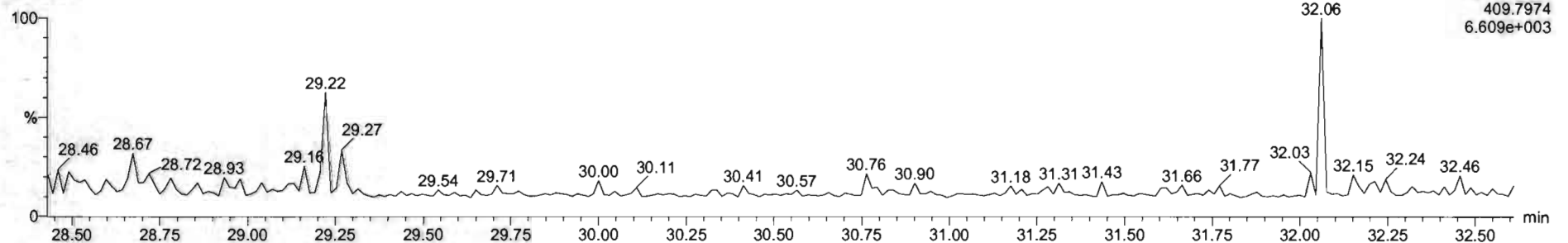
200528R2\_2



F2:Voltage SIR,EI+  
353.897  
9.602e+006

**DPE2**

200528R2\_2



F2:Voltage SIR,EI+  
409.7974  
6.609e+003

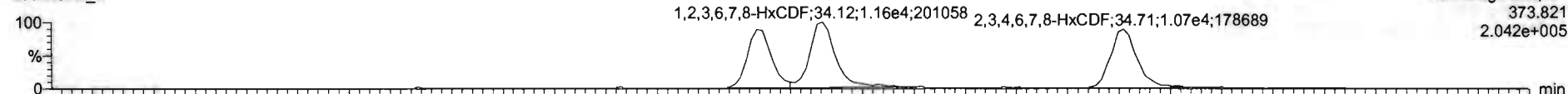
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Name: 200528R2\_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2\_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

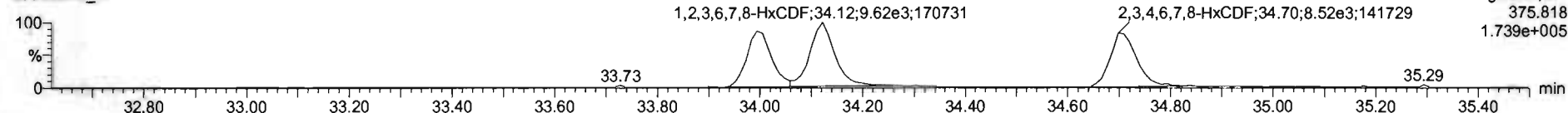
**1,2,3,4,7,8-HxCDF**

200528R2\_2



F3: Voltage SIR, EI+  
373.821  
2.042e+005

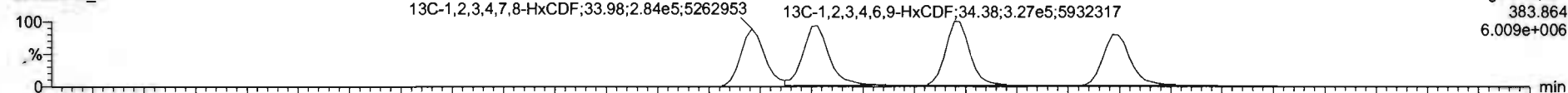
200528R2\_2



F3: Voltage SIR, EI+  
375.818  
1.739e+005

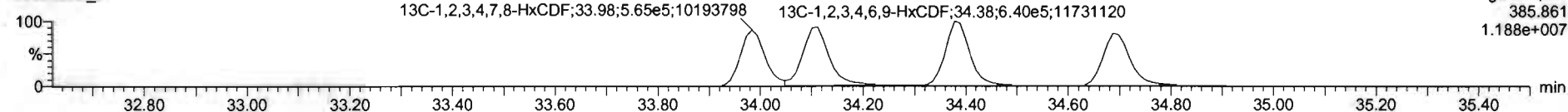
**13C-1,2,3,4,7,8-HxCDF**

200528R2\_2



F3: Voltage SIR, EI+  
383.864  
6.009e+006

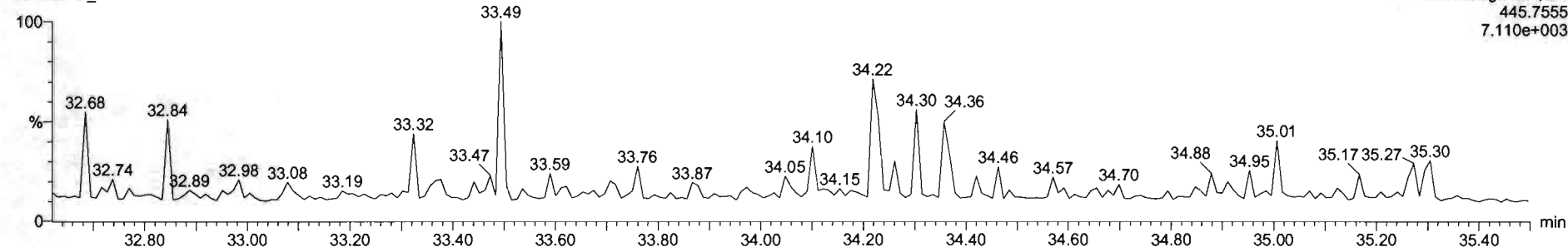
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F3: Voltage SIR, EI+  
385.861  
1.188e+007

**DPE3**

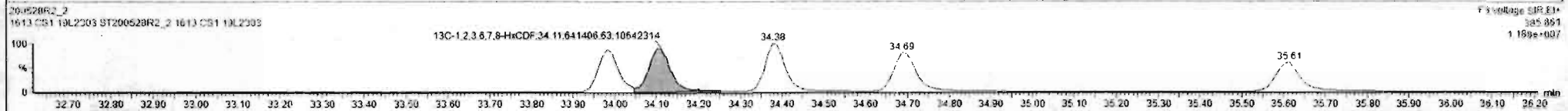
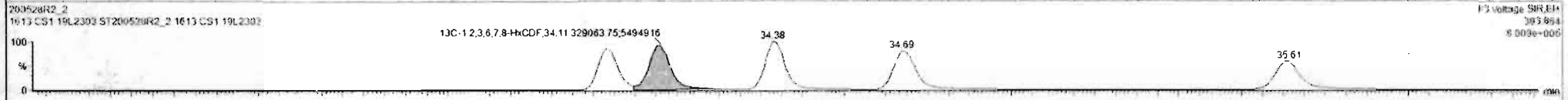
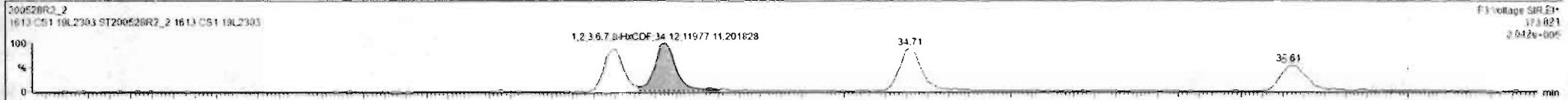
200528R2\_2



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	0.8973	1.000	34.99	1.001	2.47	98.5	0.0747	3.47
5	1,2,3,7,9-HxCDD	1.62e4	1.21	NO	0.8269	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6	1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8639	1.000	36.51	1.001	2.33	93.3	0.0618	2.33
7	OCDD	2.39e4	0.83	NO	0.9136	1.000	41.77	1.000	4.97	99.4	0.149	4.97
8	2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.468	97.7	0.0620	0.468
9	1,2,3,7,8-PeCDF	3.08e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10	2,3,4,7,8-PeCDF	3.19e4	1.55	NO	0.9340	1.000	31.21	1.000	2.52	101	0.0395	2.52
11	1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8545	1.000	33.99	1.000	2.41	96.3	0.0665	3.41
12	1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.6552	1.000	34.12	1.000	2.50	100	0.0542	2.50
13	2,3,4,6,7,8-HxCDF	1.93e4	1.26	NO	0.9341	1.000	34.71	1.001	2.38	95.3	0.0702	2.38
14	1,2,3,7,8,9-HxCDF	1.46e4	1.12	NO	0.8707	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15	1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16	1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0128	1.000	39.33	1.000	2.33	93.3	0.0630	2.33
17	OCDF	2.40e4	0.84	NO	0.8085	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18	1,2,3,7,8-TCDF	1.79e6	0.79	NO	1.1563	1.000	26.54	1.025	89.8	89.8	0.0928	
19	1,2,3,7,8-PeCDD	9.36e5	0.63	NO	0.8490	1.000	31.50	1.216	68.7	68.7	0.113	
20	1,2,3,4,7,8-HxCDD	6.46e5	1.28	NO	0.7750	1.000	34.87	1.014	85.9	85.9	0.183	
21	1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0187	1.000	34.96	1.017	87.7	87.7	0.140	

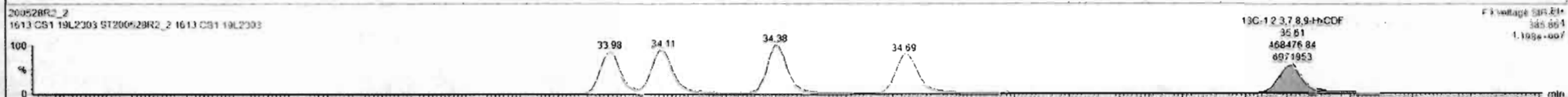
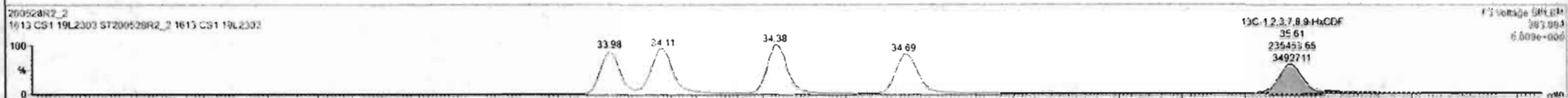


Custom Reporting: Select reports to generate

200528R2\_2 CAP NUM

7:55 AM

#	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	





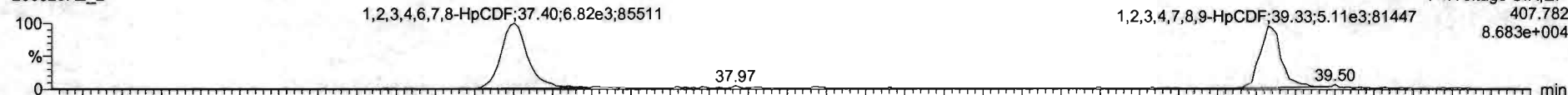
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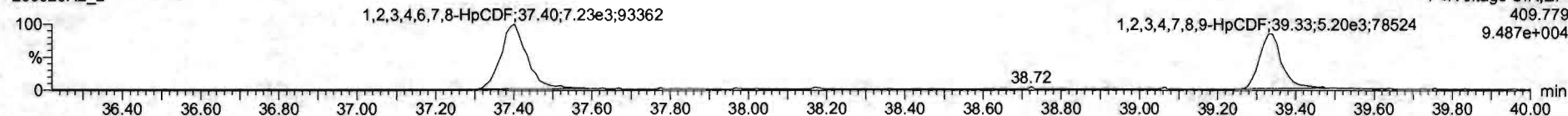
**1,2,3,4,6,7,8-HpCDF**

200528R2\_2



F4:Voltage SIR,EI+  
407.782  
8.683e+004

200528R2\_2



F4:Voltage SIR,EI+  
409.779  
9.487e+004

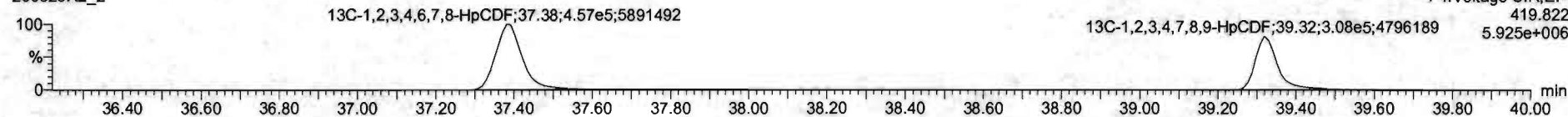
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200528R2\_2



F4:Voltage SIR,EI+  
417.825  
2.595e+006

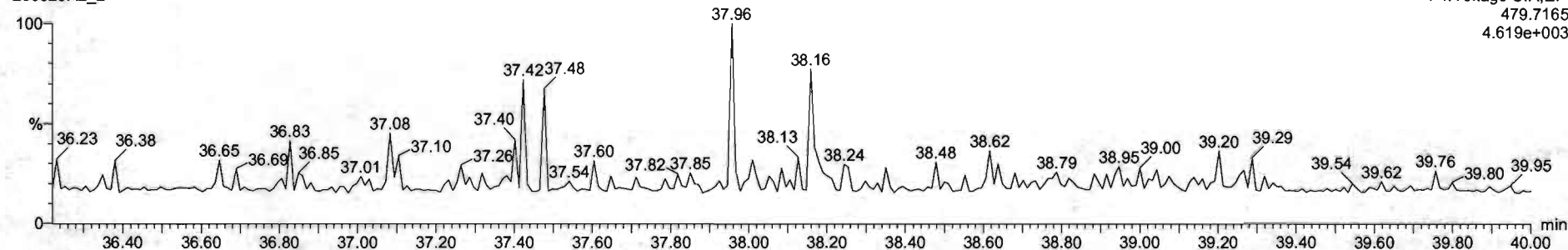
200528R2\_2



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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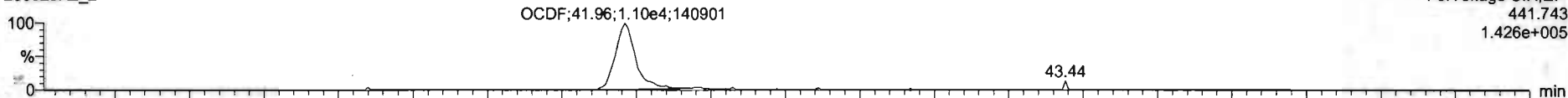
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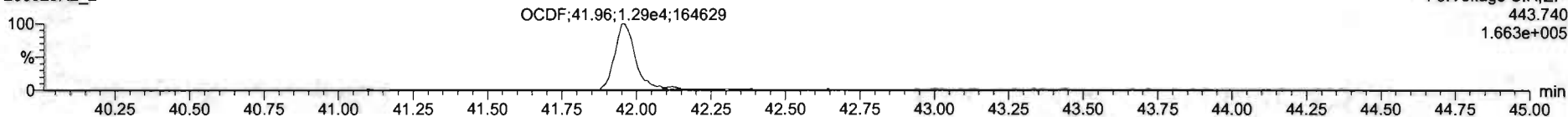
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**OCDF**

200528R2\_2

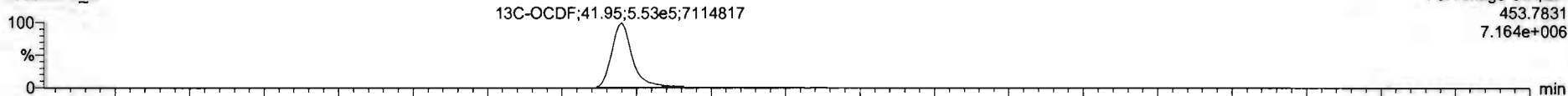


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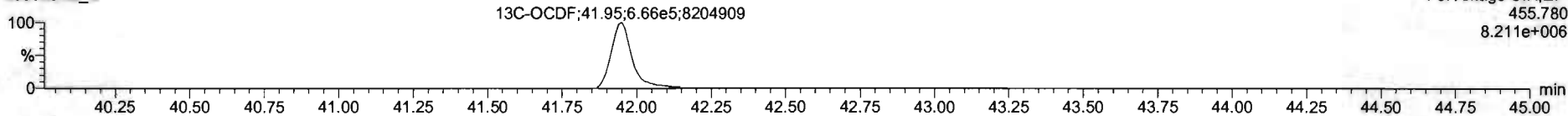


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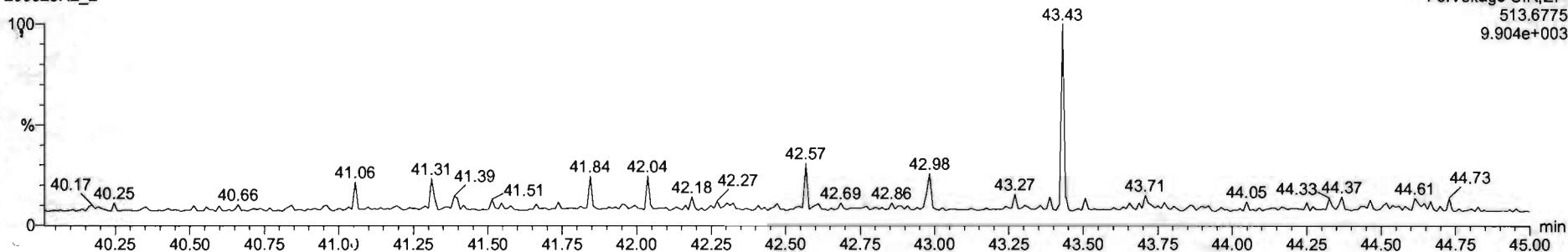


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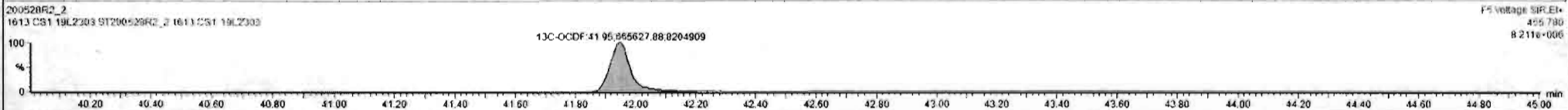


**DPE5**

200528R2\_2



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	0.0928	
19 13C-1,2,3,7,8-PeCDD	9.36e5	0.63	NO	0.8490	1.000	31.50	1.216	88.7	88.7	0.113	
20 13C-1,2,3,4,7,8-HxCDD	5.46e5	1.28	NO	0.7790	1.000	24.87	1.014	85.9	85.9	0.183	
21 13C-1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0187	1.000	34.96	1.017	87.7	87.7	0.140	



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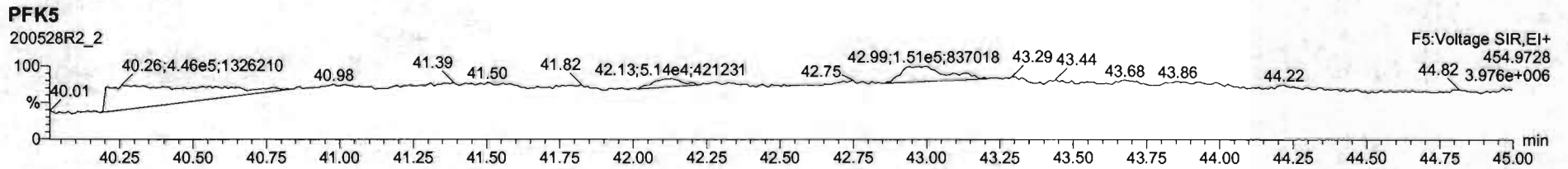
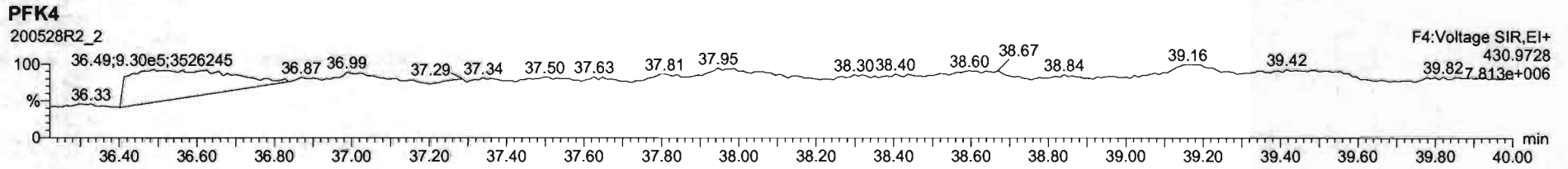
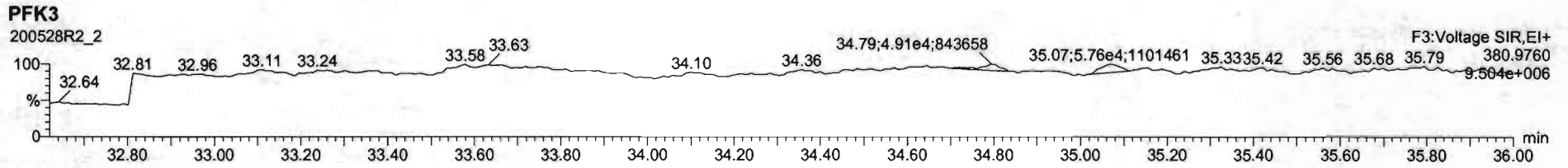
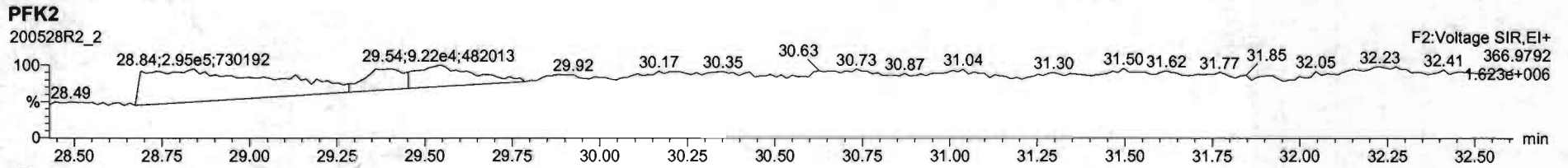
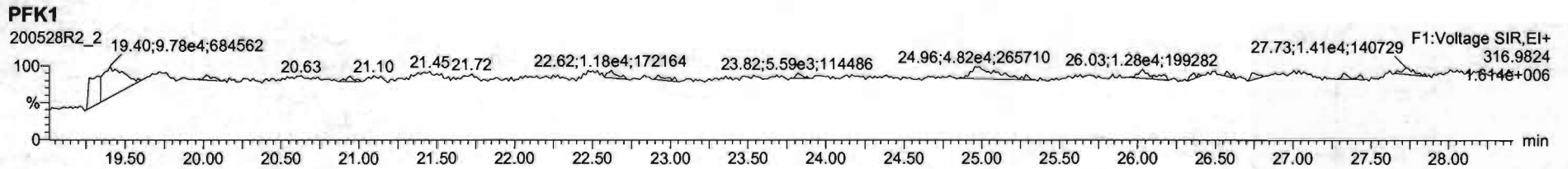
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CAP NUM

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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time  
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2\_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2\_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303



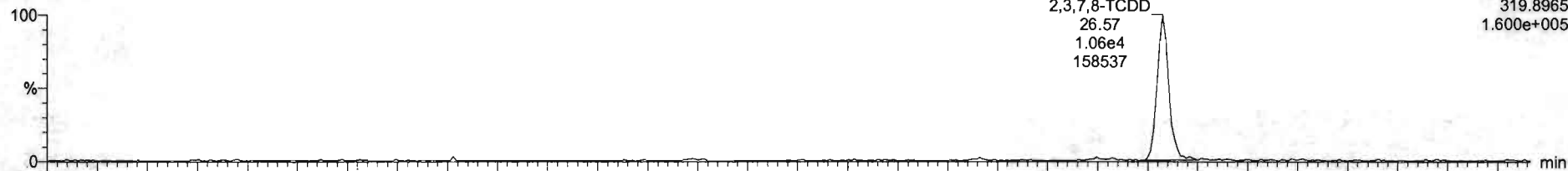
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

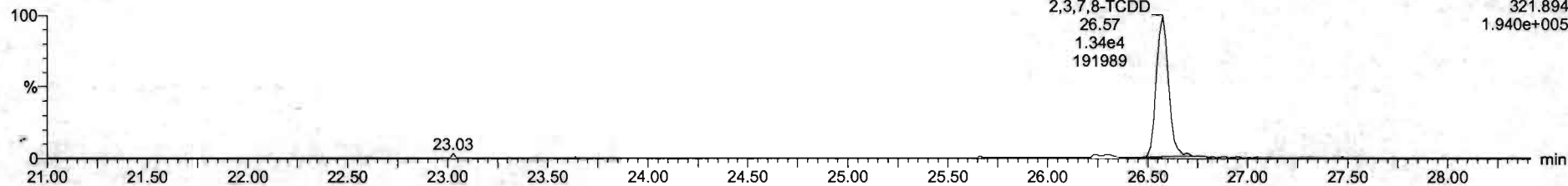
Name: 200528R2\_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200528R2\_3

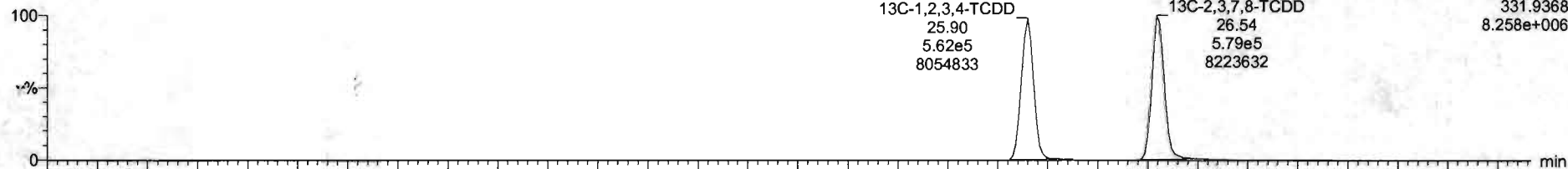


200528R2\_3

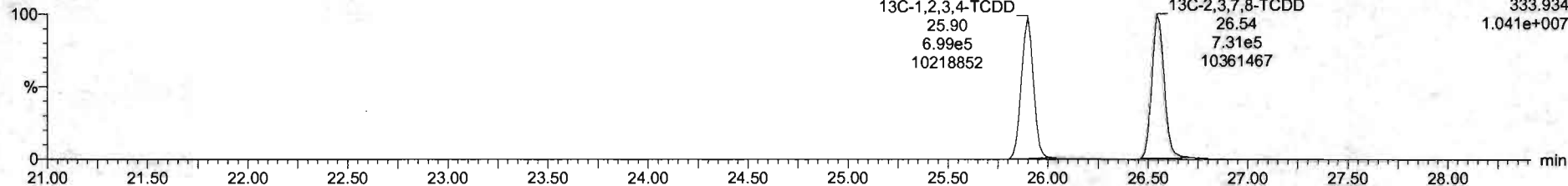


**13C-2,3,7,8-TCDD**

200528R2\_3



200528R2\_3



Dataset: Untitled

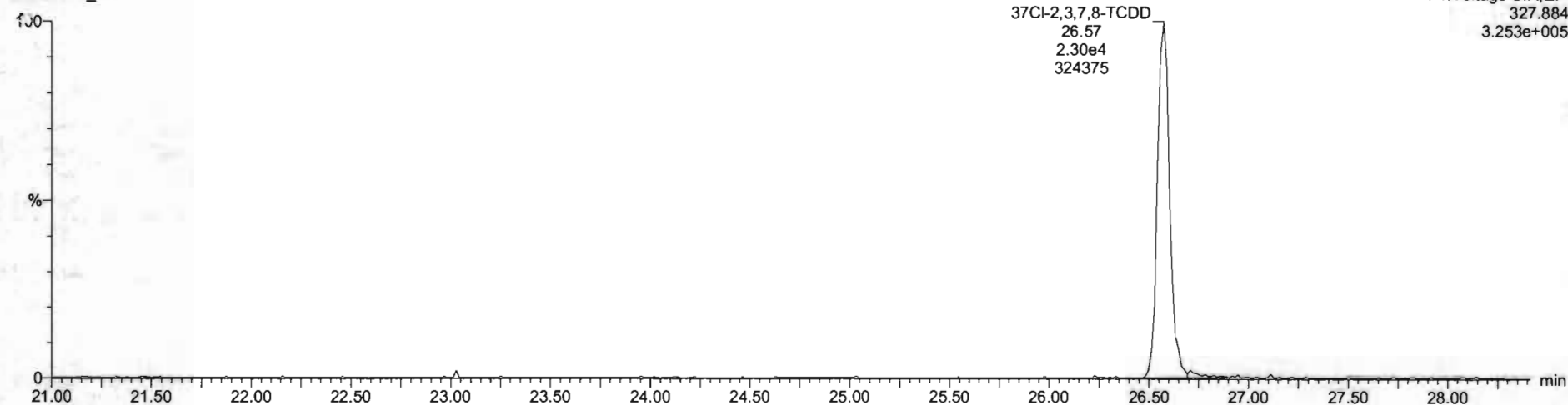
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2\_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

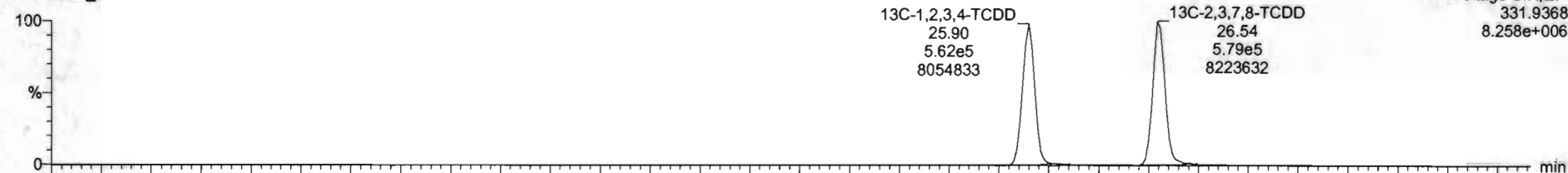
**37Cl-2,3,7,8-TCDD**

200528R2\_3

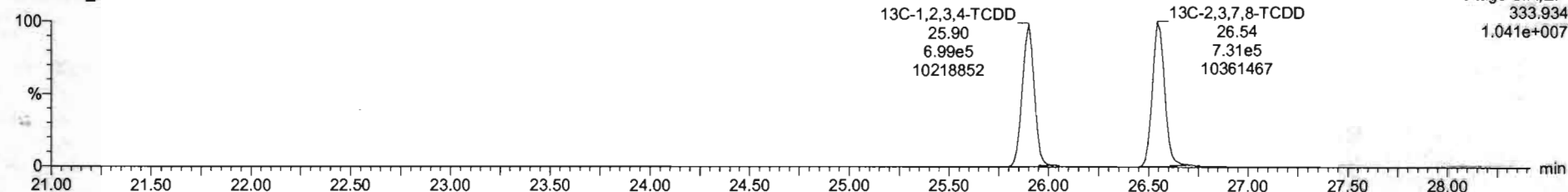


**13C-1,2,3,4-TCDD**

200528R2\_3



200528R2\_3



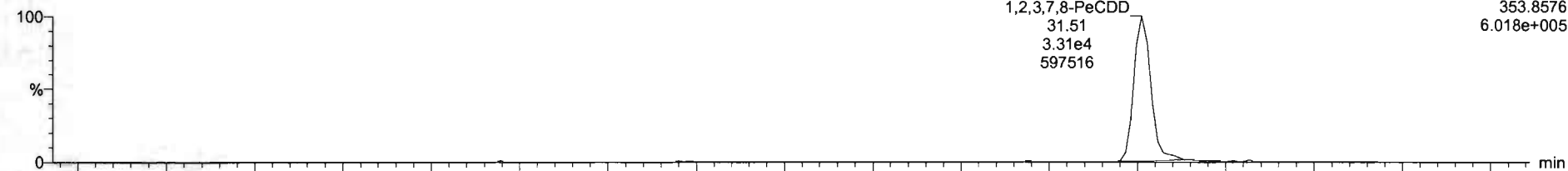
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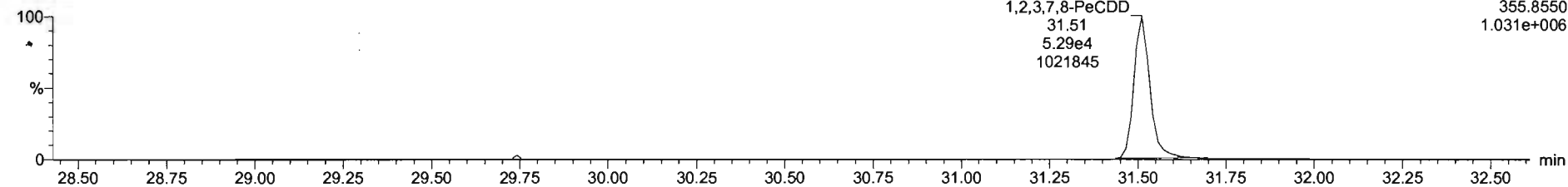
Name: 200528R2\_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200528R2\_3

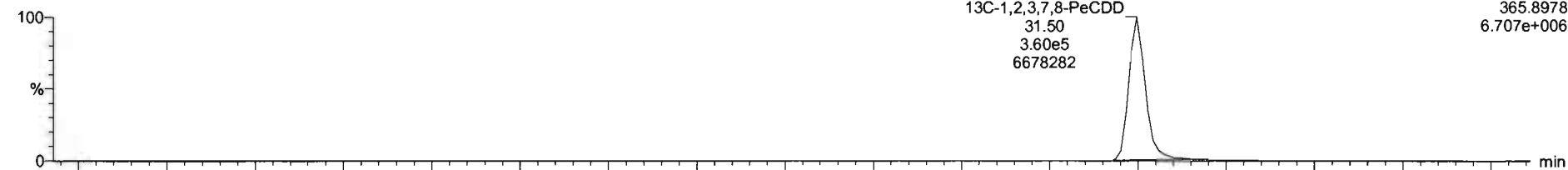


200528R2\_3

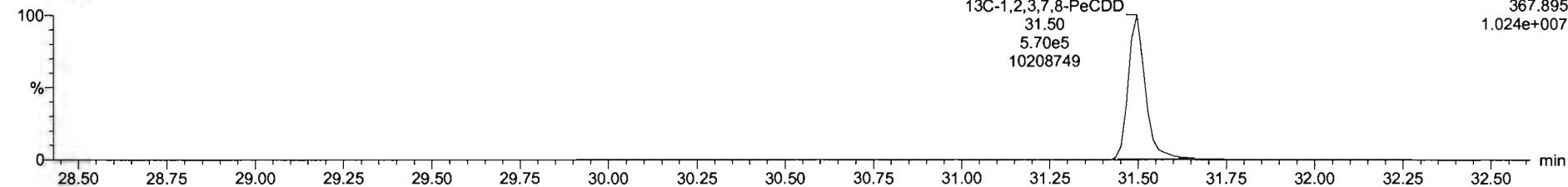


**13C-1,2,3,7,8-PeCDD**

200528R2\_3



200528R2\_3





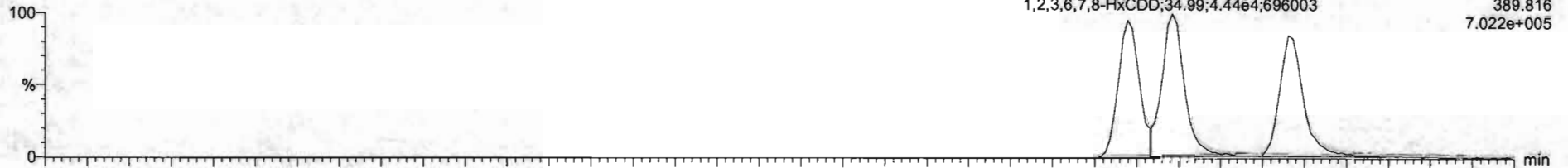
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

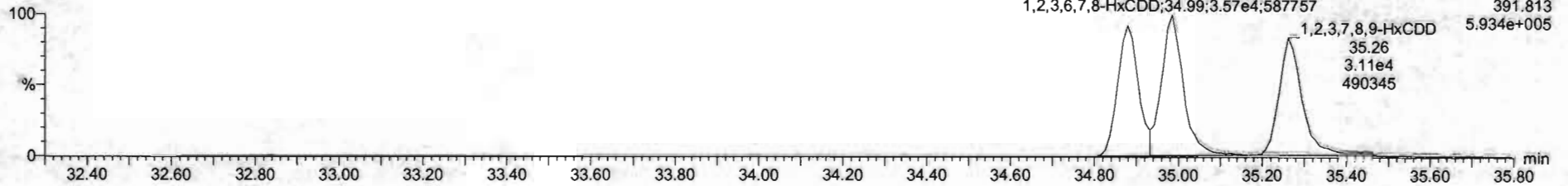
Name: 200528R2\_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200528R2\_3

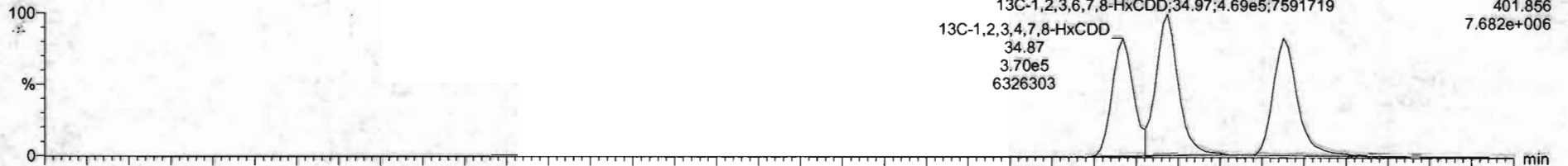


200528R2\_3

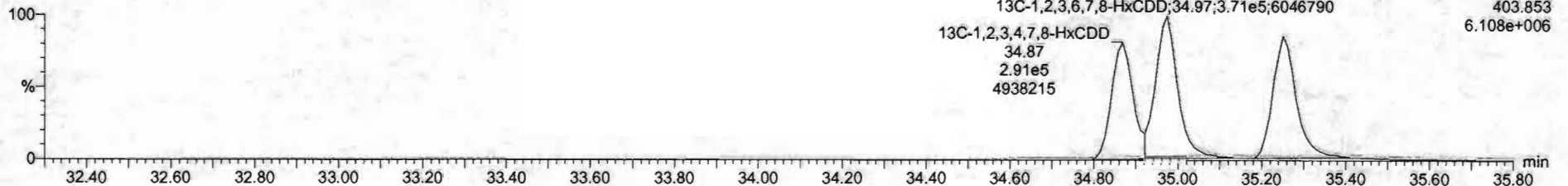


13C-1,2,3,4,7,8-HxCDD

200528R2\_3



200528R2\_3





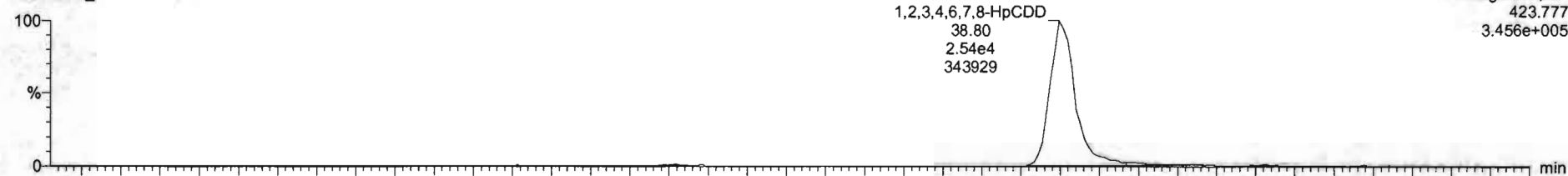
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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time  
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

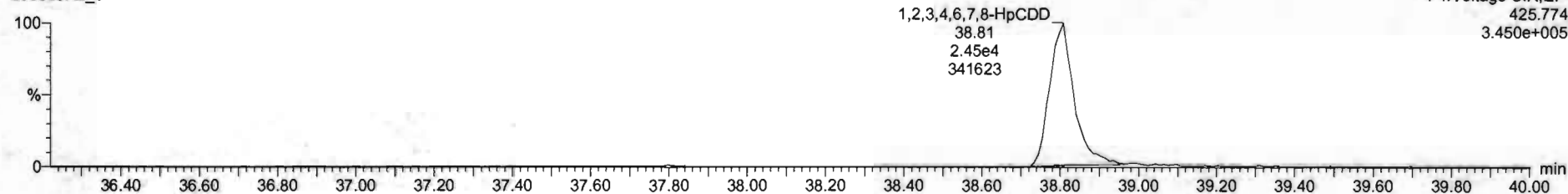
Name: 200528R2\_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200528R2\_3

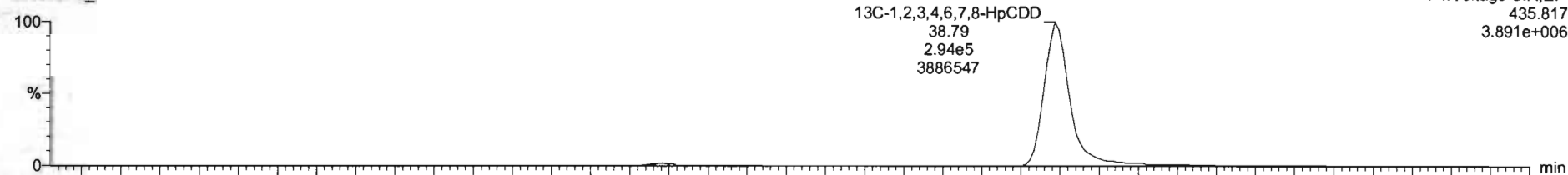


200528R2\_3

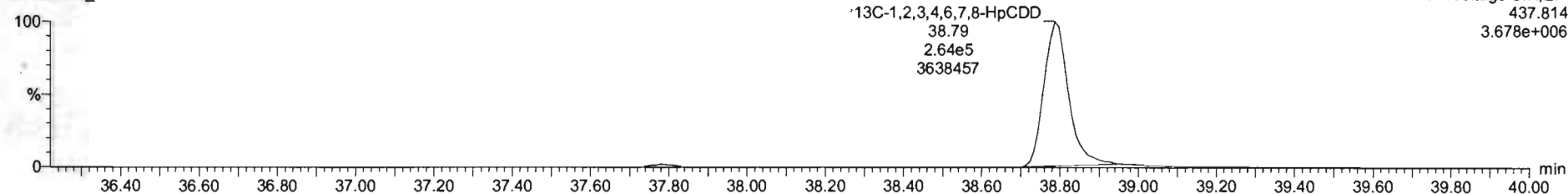


**13C-1,2,3,4,6,7,8-HpCDD**

200528R2\_3



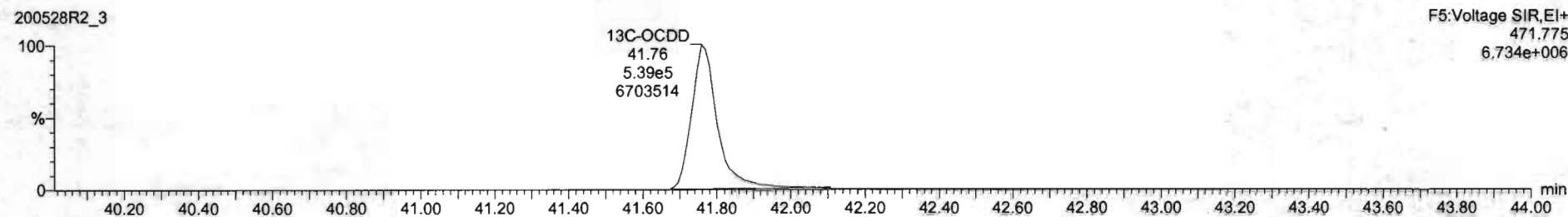
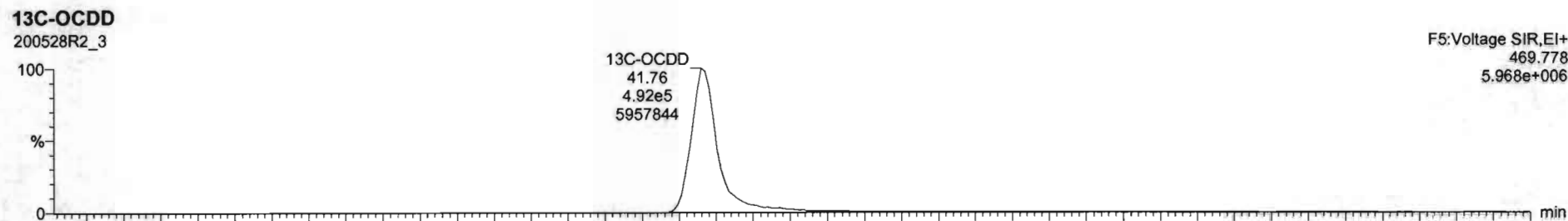
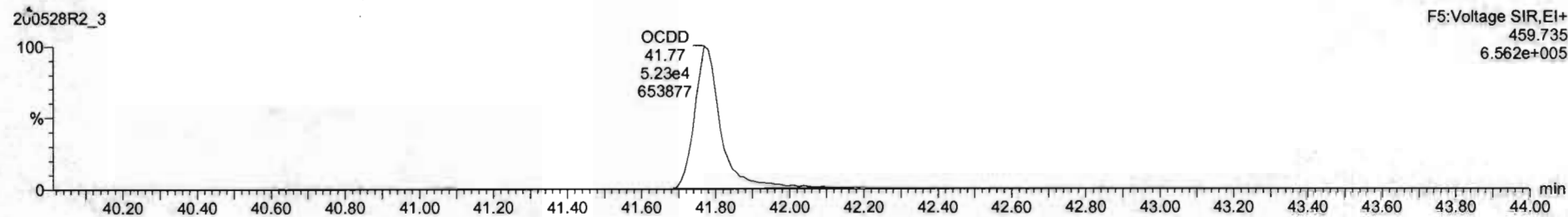
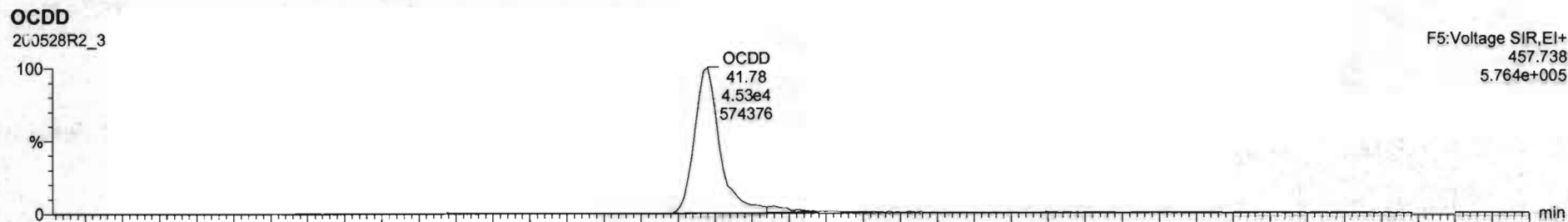
200528R2\_3



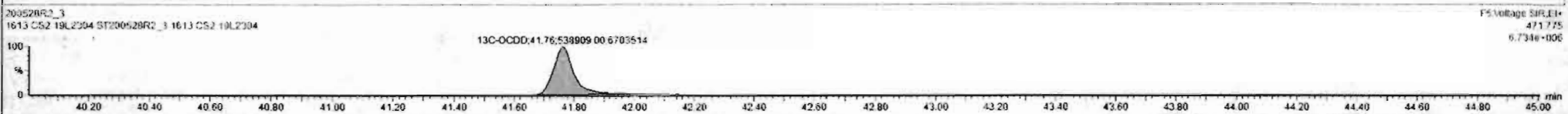
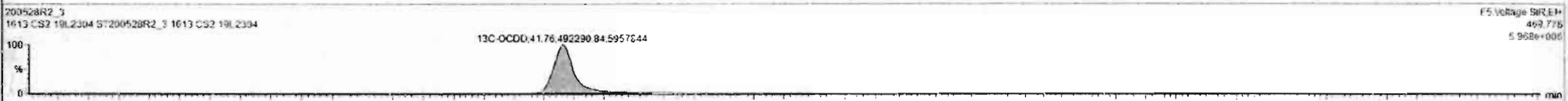
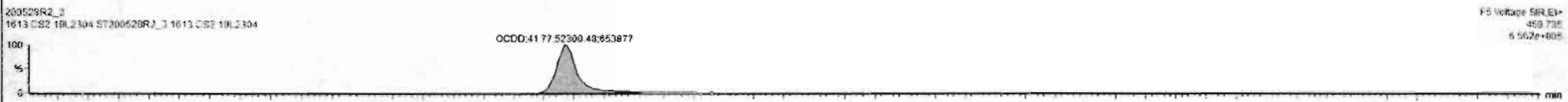
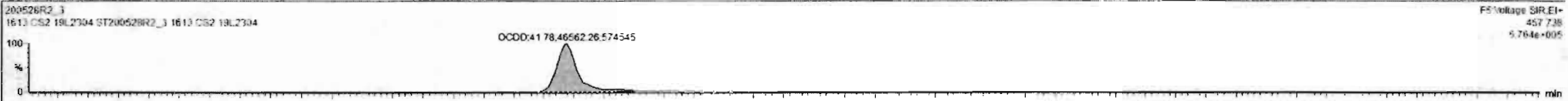
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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time  
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2\_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304



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	36.50	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	26.68	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	34.01	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	



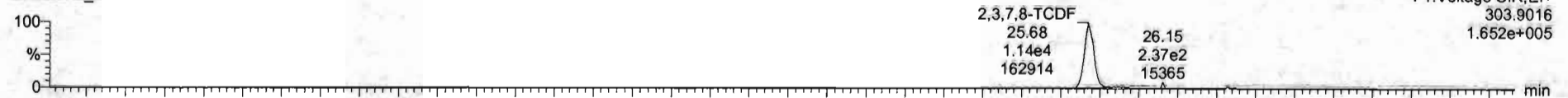
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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time  
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

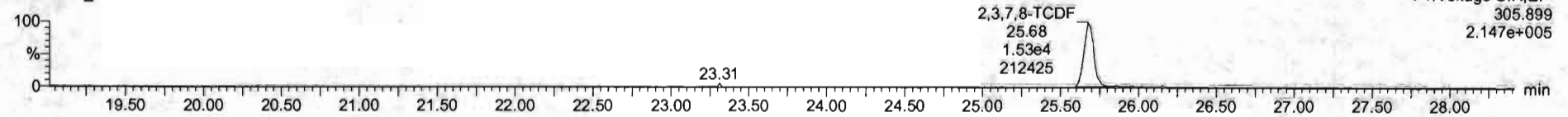
Name: 200528R2\_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200528R2\_3

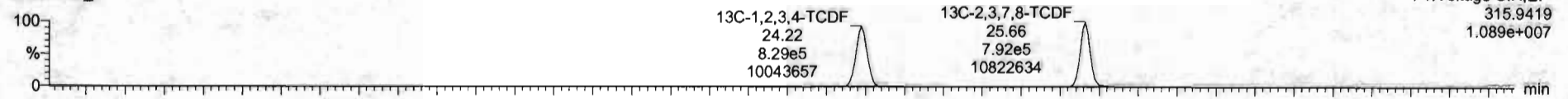


200528R2\_3

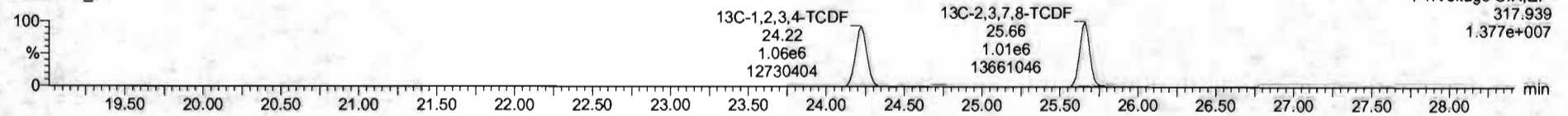


**13C-2,3,7,8-TCDF**

200528R2\_3

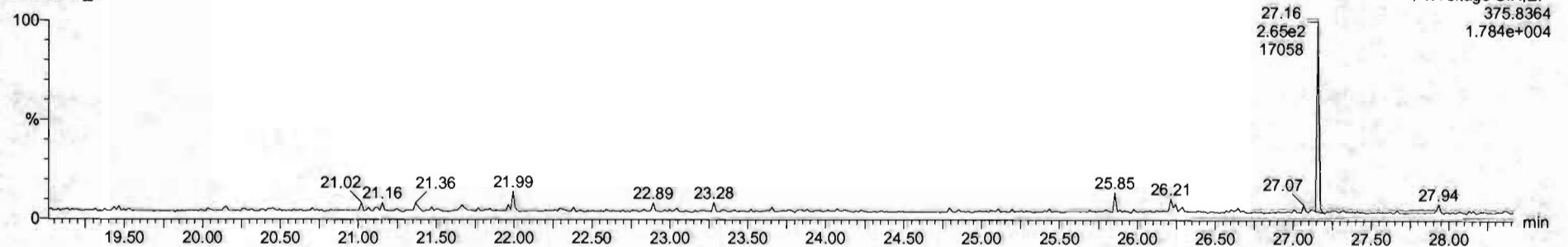


200528R2\_3



**DPE1**

200528R2\_3



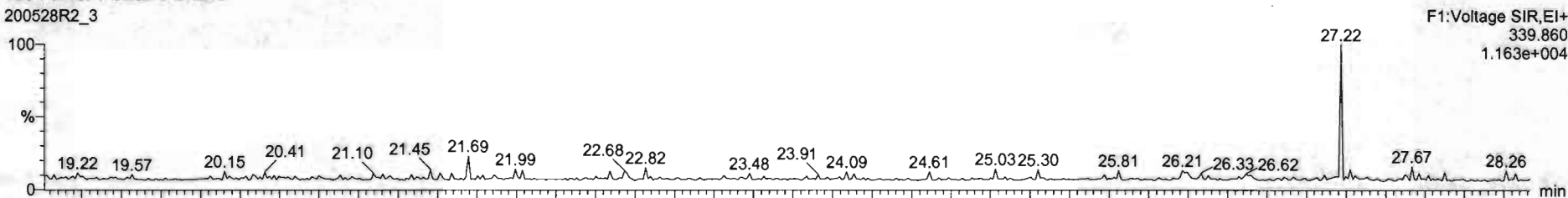
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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time  
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

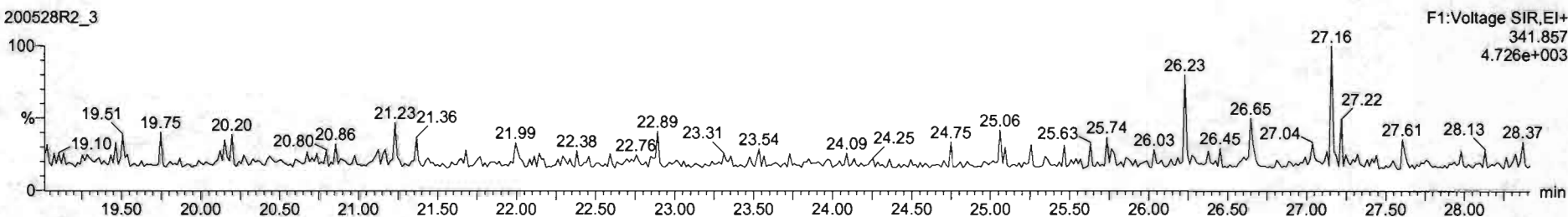
Name: 200528R2\_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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200528R2\_3

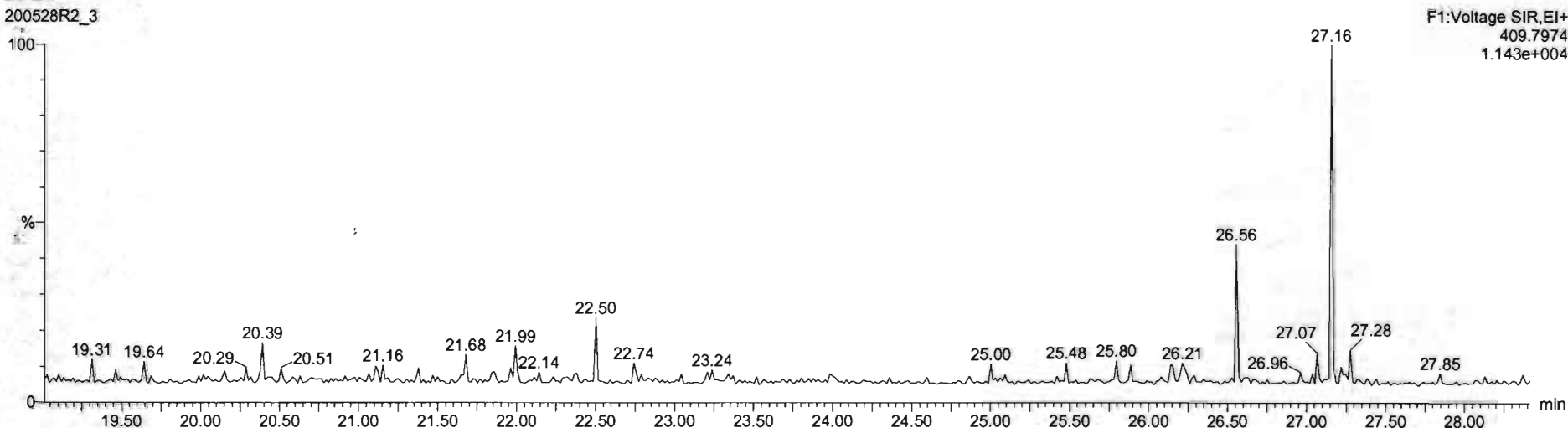


200528R2\_3



DPE6

200528R2\_3



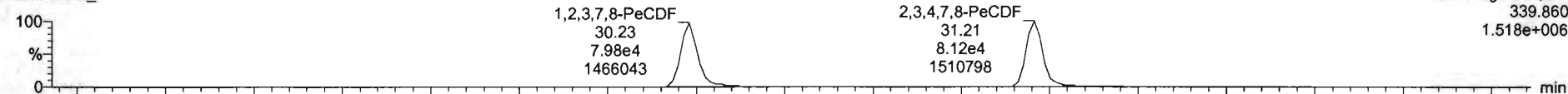
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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time  
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

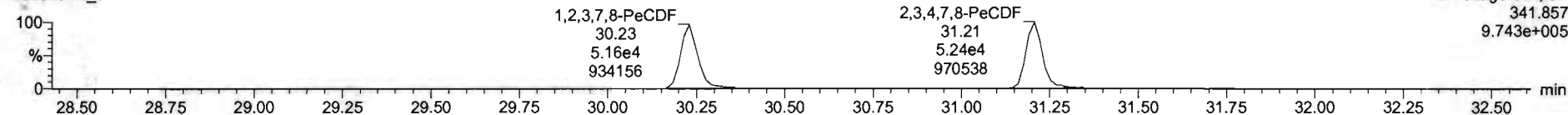
Name: 200528R2\_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200528R2\_3

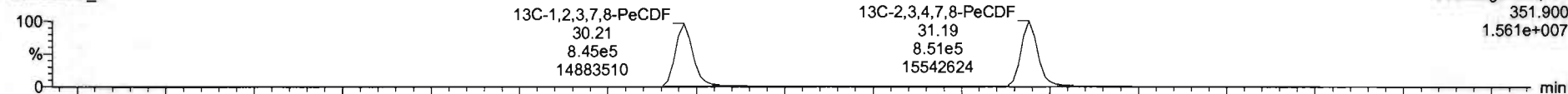


200528R2\_3

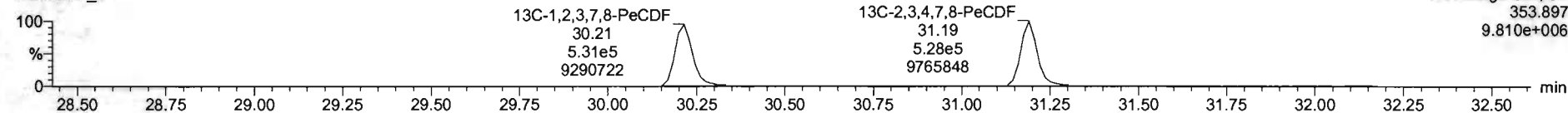


**13C-1,2,3,7,8-PeCDF**

200528R2\_3

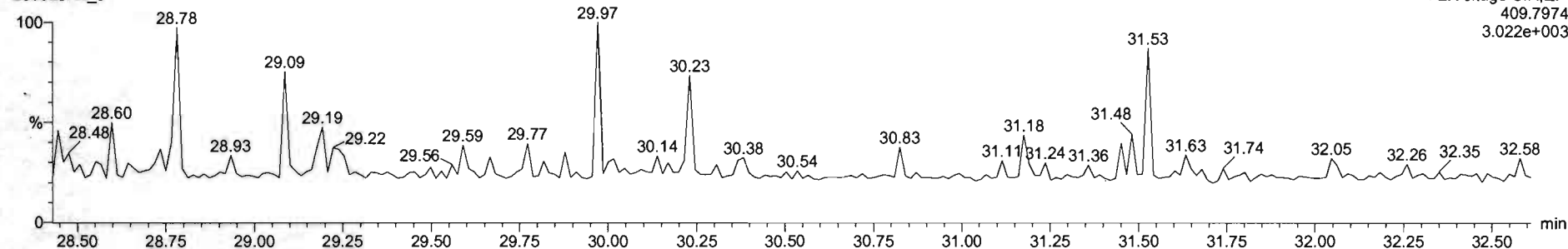


200528R2\_3



**DPE2**

200528R2\_3





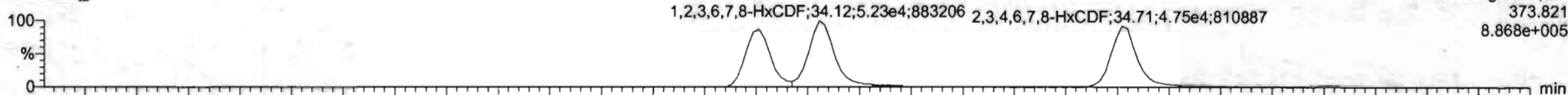
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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time  
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

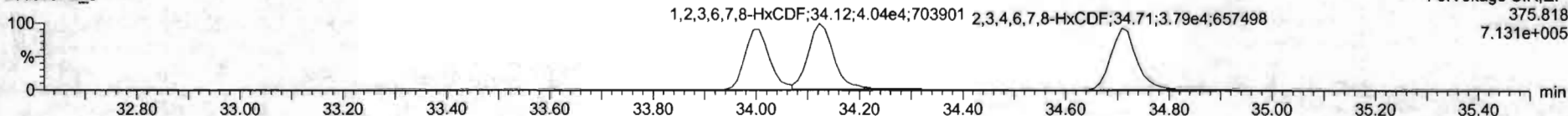
Name: 200528R2\_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200528R2\_3

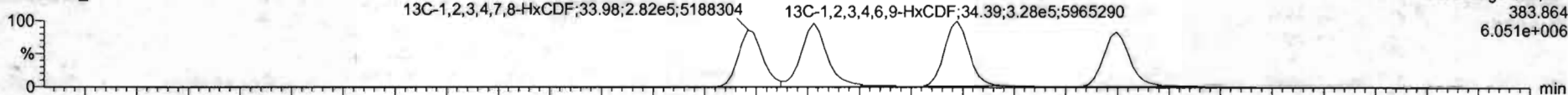


200528R2\_3

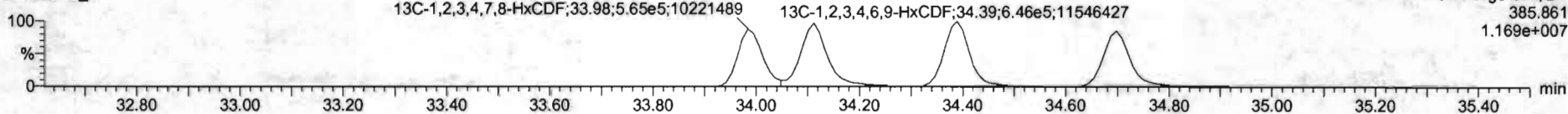


**13C-1,2,3,4,7,8-HxCDF**

200528R2\_3

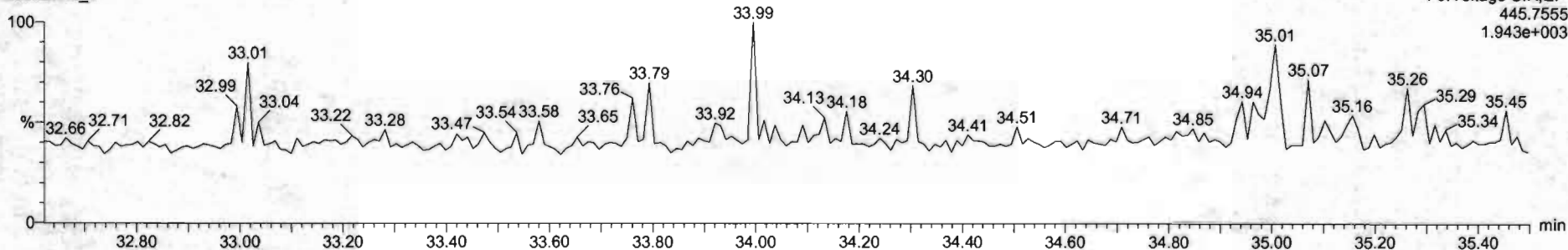


200528R2\_3

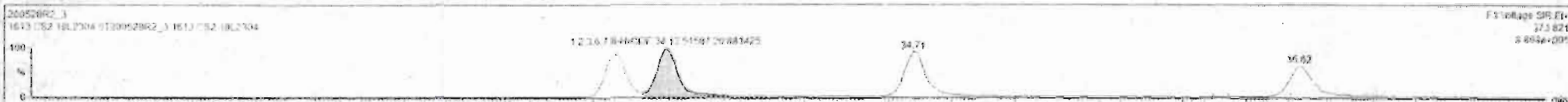


**DPE3**

200528R2\_3



#	Name	Resp	Rx	ntf	RRF	weight	BT	NK1	Conc	%Rec	DR	EMPL
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.HxCDD	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.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.HxCDD	7.99e4	1.02	NO	0.8839	1.000	35.80	1.000	16.4	104	0.0797	16.4
7	CDD	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.CDD	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.HxCDF	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	1.34e5	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	34.01	1.001	10.5	106	0.0611	10.4
12	1.2.3.6.7.HxCDF	9.26e4	1.28	NO	0.8852	1.000	34.12	1.000	11.3	103	0.0595	10.3
13	1.2.3.4.7.8.HxCDF	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.HxCDF	6.49e4	1.24	NO	0.9707	1.000	35.62	1.000	10.3	102	0.0961	10.3
15	1.2.3.4.7.8.HxCDF	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.HxCDF	4.43e4	1.01	NO	1.0128	1.000	39.34	1.000	10.4	104	0.0881	10.4
17	CDD	5.58e4	0.39	NO	0.8055	1.000	41.90	1.000	26.3	103	0.0967	26.3
18	13C-1.2.3.6.7.CDD	1.31e5	0.79	NO	1.1562	1.000	29.34	1.025	39.0	99.8	0.0819	39.0
19	13C-1.2.3.7.8.HxCDF	9.26e4	0.63	NO	0.8499	1.000	31.50	1.216	98.0	98.1	0.1223	98.0
20	13C-1.2.3.4.7.8.HxCDD	6.61e5	1.27	NO	0.7790	1.000	24.97	1.014	87.0	97.2	0.1489	87.0
21	13C-1.2.3.6.7.HxCDD	6.19e5	1.38	NO	1.0167	1.000	24.97	1.017	84.7	84.7	0.1465	84.7







#	Name	Area	FA	obj	RRF	wtVol	RT	RRT	Conc	%Rec	DI	EMPC
1	1,2,3,7,8-HxCDD	2.48e4	0.30	NO	0.8853	1.000	26.17	1.001	3.28	101	0.0078	2.01
2	1,2,3,7,8-PeCDD	5.55e4	0.82	NO	0.9041	1.000	31.21	1.002	10.2	102	0.0430	10.2
3	1,2,3,4,7,8-HxCDD	5.89e4	1.24	NO	1.0234	1.000	34.00	1.000	10.2	102	0.0511	10.2
4	1,2,3,6,7,8-HxCDD	1.01e4	1.24	NO	0.8921	1.000	34.99	1.000	10.7	101	0.0549	10.7
5	1,2,3,7,8,9-HxCDD	7.51e4	1.25	NO	0.8905	1.000	35.20	1.000	10.5	101	0.0670	10.5
6	1,2,3,4,6,7,8-HpCDD	4.99e4	1.03	NO	0.8838	1.000	28.00	1.000	10.4	104	0.0191	10.4
7	CDD	3.89e4	0.89	NO	0.9130	1.000	41.75	1.000	21.0	105	3.100	21.0
8	1,2,3,7,8-HxCDF	2.87e4	0.74	NO	0.7510	1.000	26.09	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	102	0.0683	10.5
12	1,2,3,6,7,8-HxCDF	4.26e4	1.25	NO	0.9092	1.000	34.12	1.000	10.2	103	0.0595	10.2
13	1,2,3,6,7,8-HxCDF	8.13e4	1.21	NO	0.9341	1.000	34.71	1.000	10.3	105	0.0600	10.3
14	1,2,3,7,8,9-HxCDF	6.49e4	1.24	NO	0.8787	1.000	35.81	1.000	10.3	102	0.0601	10.3
15	1,2,3,4,6,7,8-HpCDF	1.72e4	1.00	NO	0.8734	1.000	27.40	1.001	10.1	101	0.0820	10.1
16	1,2,3,4,7,8,9-HpCDF	4.43e4	1.01	NO	0.9128	1.000	30.38	1.000	10.4	104	0.0601	10.4
17	CDF	3.66e4	0.60	NO	0.8985	1.000	41.96	1.000	25.4	103	0.0963	25.4
18	1,2,3,4,6,7,8-HpCDF	1.31e4	0.79	NO	1.1560	1.000	26.54	1.025	19.0	89.5	0.0653	
19	1,2,3,6,7,8-HxCDF	9.29e4	0.83	NO	0.9420	1.000	31.08	1.216	98.0	98.1	0.123	
20	1,2,3,4,7,8,9-HpCDD	2.61e4	1.27	NO	0.7798	1.000	34.07	1.034	57.0	97.0	0.159	
21	1,2,3,4,6,7,8-HpCDD	6.20e4	1.26	NO	1.0187	1.000	24.97	1.017	34.7	34.7	0.145	



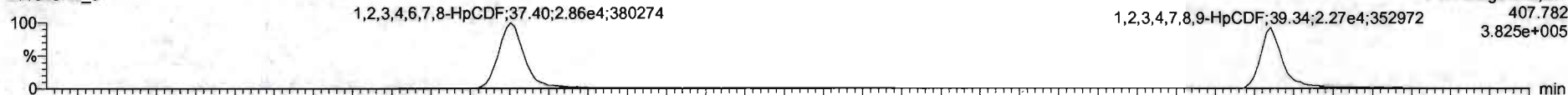
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

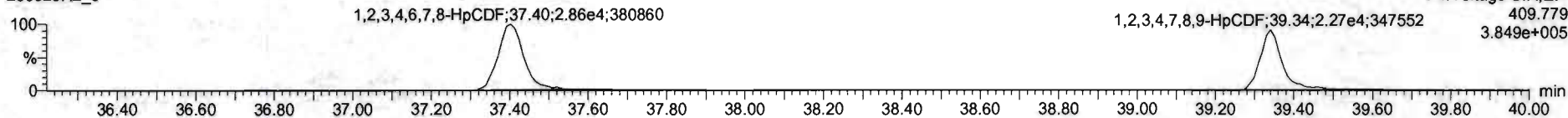
Name: 200528R2\_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200528R2\_3

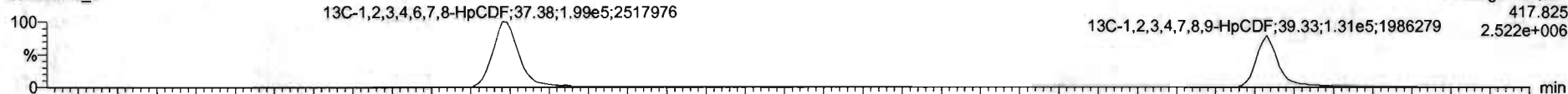


200528R2\_3

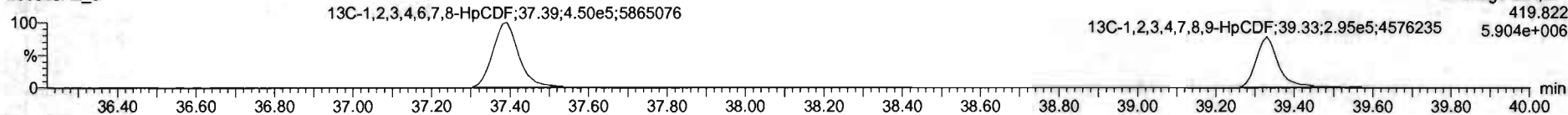


**13C-1,2,3,4,6,7,8-HpCDF**

200528R2\_3

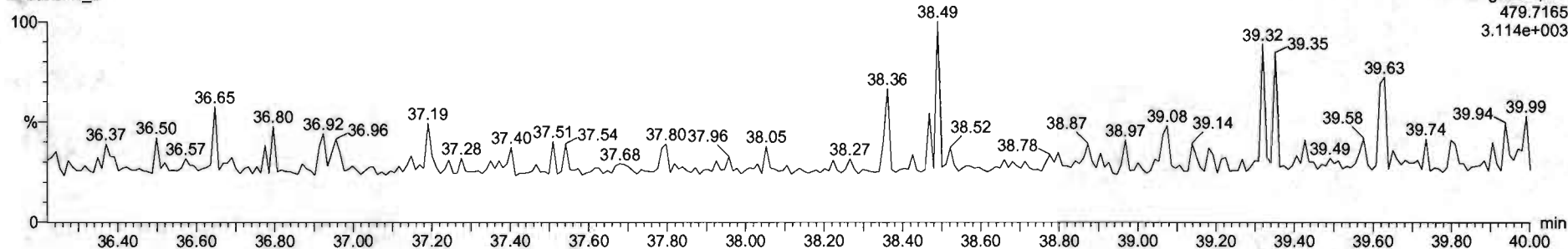


200528R2\_3



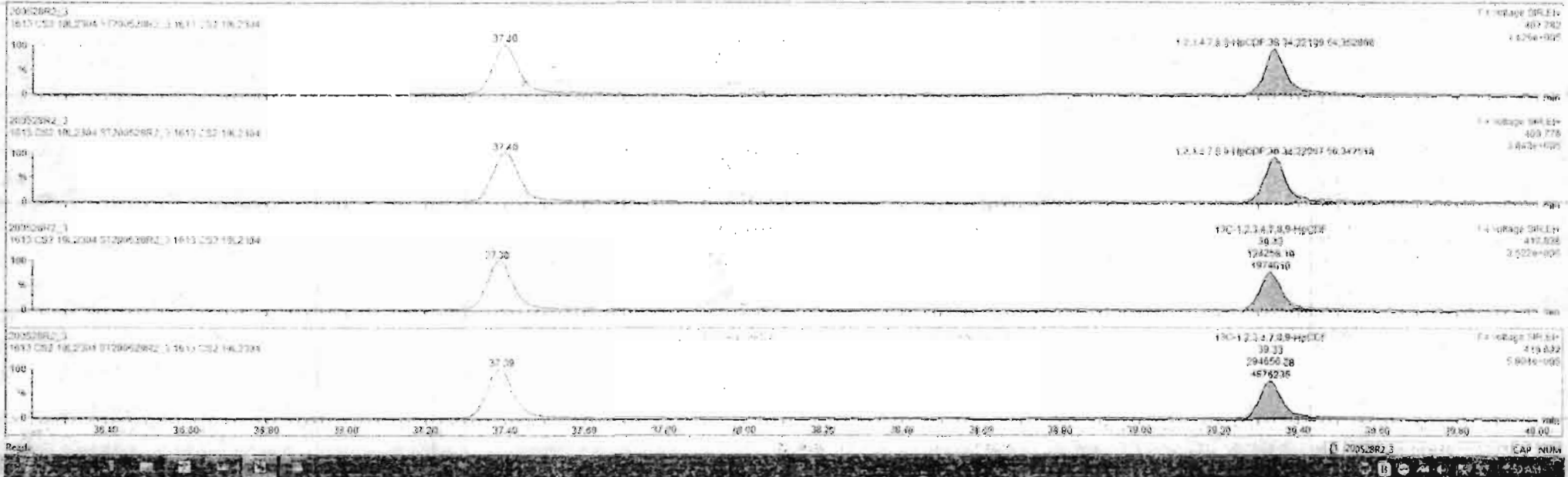
**DPE4**

200528R2\_3





#	Name	Desc	RA	RY	RRF	whval	RT	RFI	Conc	MRnc	DL	UM
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	1.58e4	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	8.9e4	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	8.01e4	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	7.01e4	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	1.9e4	1.02	NO	0.8639	1.00	35.90	1.00	10.0	104	0.0792	10.0
7	OCDF	0.59e4	0.09	NO	0.9126	1.00	31.75	1.00	21.0	105	0.109	21.0
8	1,2,3,6,7,8-HxCDF	2.77e4	0.74	NO	0.7510	1.00	25.00	1.00	1.00	96.8	0.0101	1.00
9	1,2,3,7,8-HxCDF	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-HxCDF	1.15e4	1.05	NO	0.9140	1.00	31.01	1.00	10.0	104	0.0175	10.0
11	1,2,3,4,7,8-HxCDF	7.91e4	1.02	NO	0.0640	1.00	34.05	1.00	10.0	106	0.0651	10.0
12	1,2,3,6,7,8-HxCDF	1.28e4	1.08	NO	0.9042	1.00	34.12	1.00	10.0	103	0.0595	10.0
13	1,2,3,4,7,8-HxCDF	8.53e4	1.05	NO	0.9341	1.00	34.71	1.00	10.0	105	0.0690	10.0
14	1,2,3,7,8-HxCDF	8.49e4	1.24	NO	0.9202	1.00	35.92	1.00	10.0	103	0.0661	10.0
15	1,2,3,4,6,7,8-HpCDF	1.72e4	1.00	NO	0.9224	1.00	37.40	1.00	10.0	101	0.0826	10.0
16	1,2,3,4,7,8,9-HpCDF	4.43e4	1.03	NO	1.0120	1.00	39.34	1.00	10.0	104	0.0681	10.0
17	OCDF	9.8e+1	0.00	ND	0.9060	1.00	41.30	1.00	26.6	103	0.0847	26.6
18	1,2,3,4,7,8-HxCDF	1.31e4	0.76	NO	1.1503	1.00	26.34	1.00	50.0	39.5	0.0850	50.0
19	1,2,3,4,7,8-HxCDF	9.19e4	0.03	NO	0.9450	1.00	35.90	1.00	10.0	96.8	0.123	10.0
20	1,2,3,4,7,8-HxCDF	8.61e4	1.27	NO	0.7790	1.00	34.87	1.00	10.0	97.0	0.109	10.0
21	1,2,3,4,6,7,8-HpCDF	6.39e5	1.28	NO	1.0167	1.00	34.07	1.017	34.7	34.7	0.140	34.7

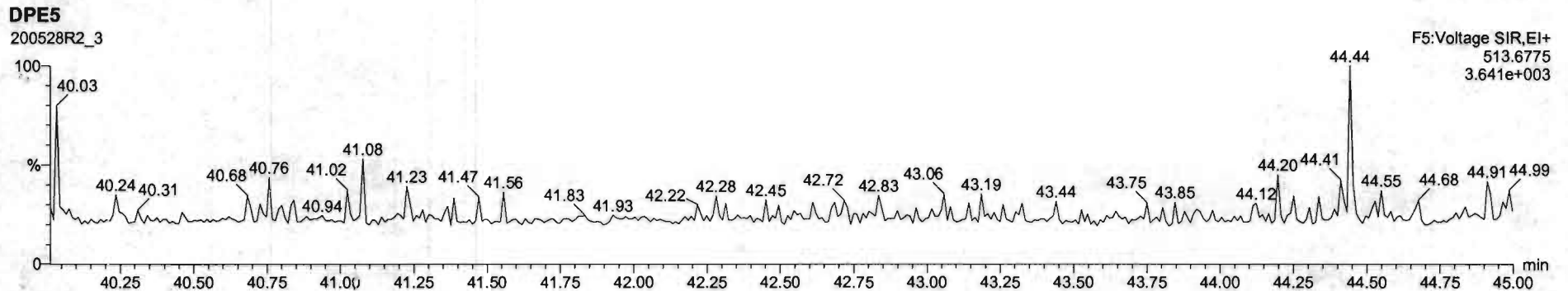
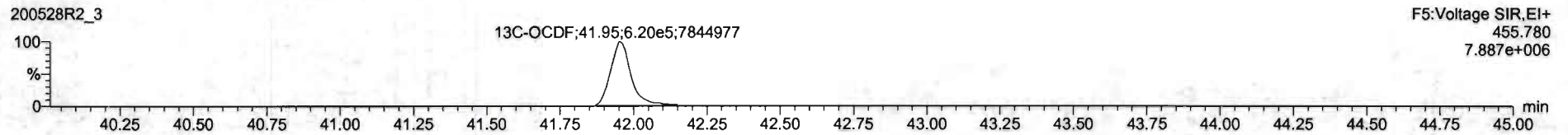
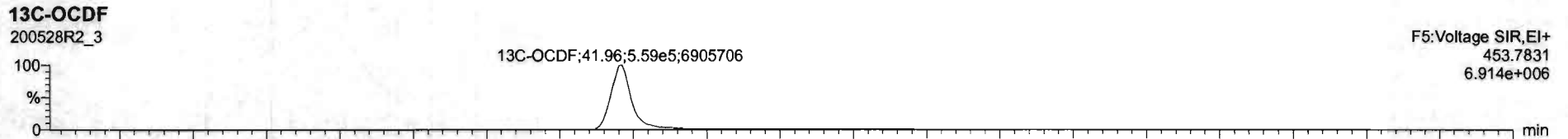
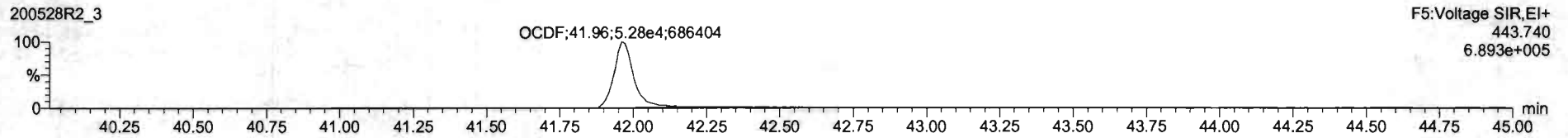
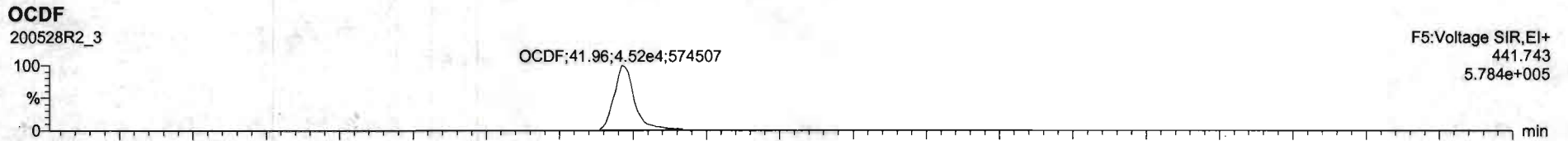




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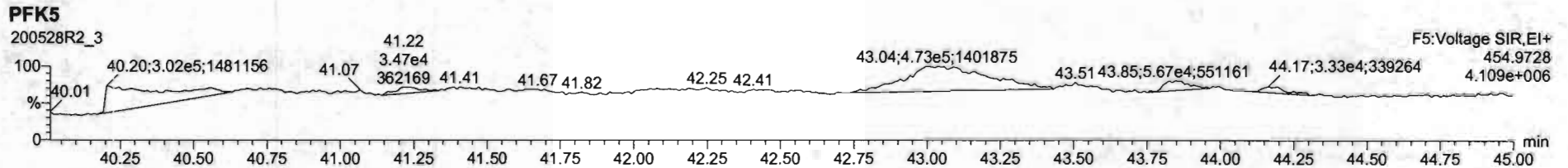
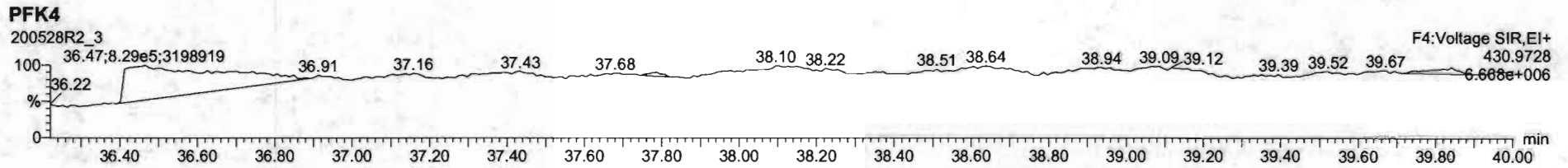
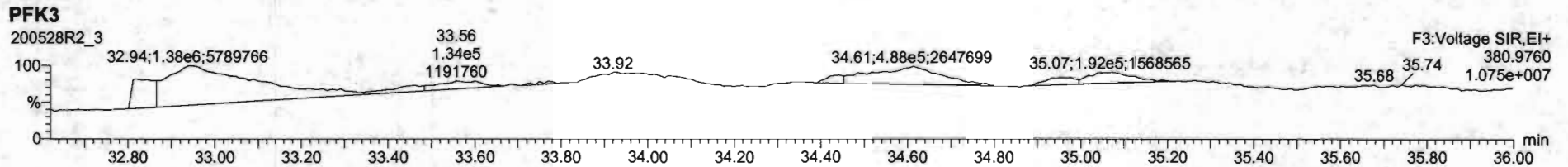
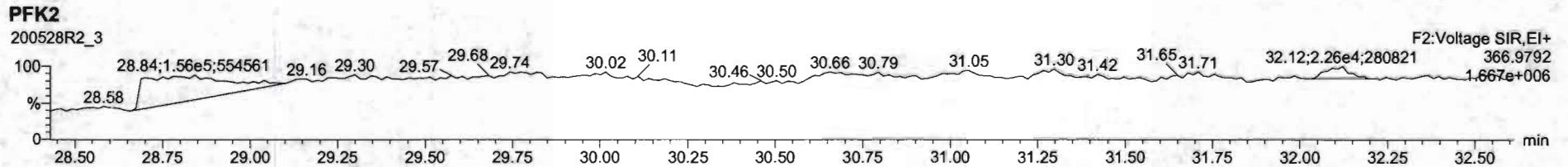
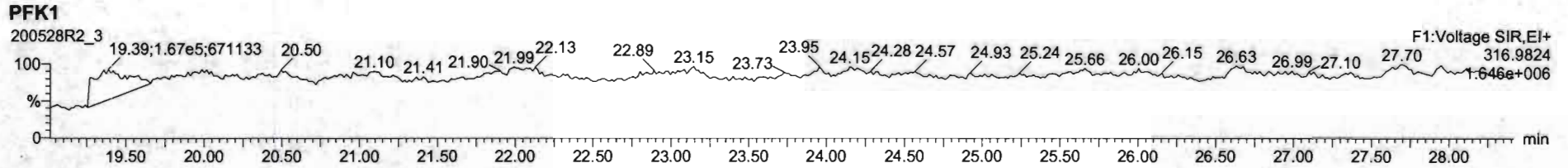
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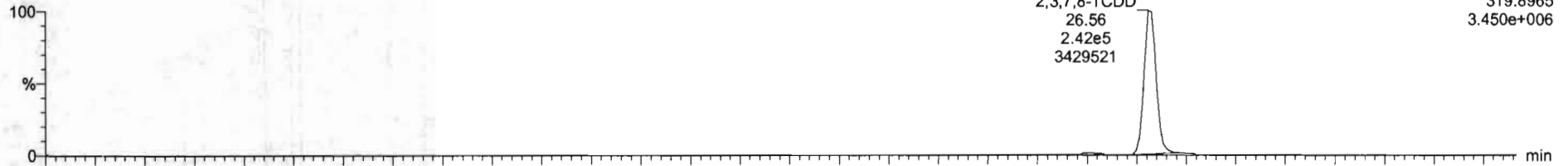
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**2,3,7,8-TCDD**

200528R2\_4

2,3,7,8-TCDD  
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2.42e5  
3429521

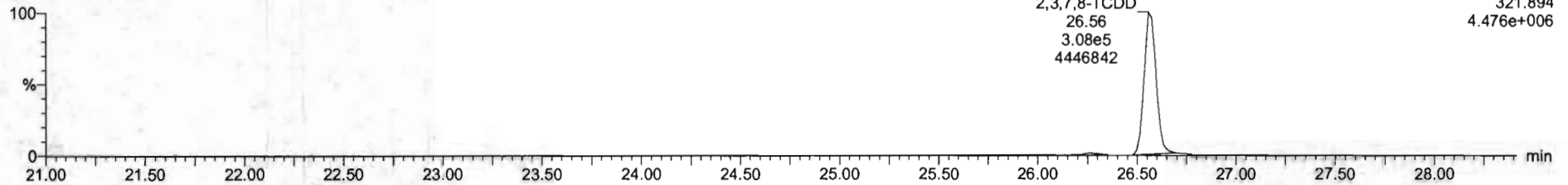
F1:Voltage SIR,EI+  
319.8965  
3.450e+006



200528R2\_4

2,3,7,8-TCDD  
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3.08e5  
4446842

F1:Voltage SIR,EI+  
321.894  
4.476e+006



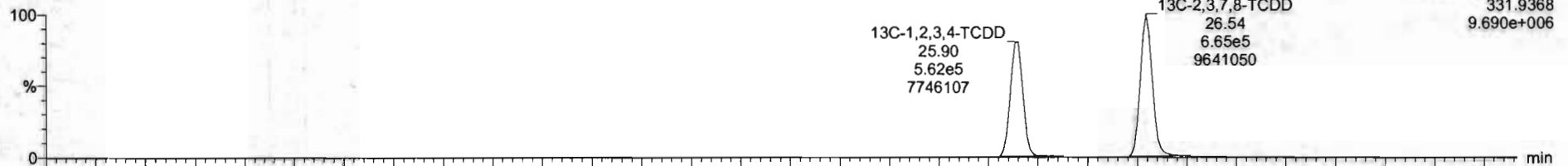
**13C-2,3,7,8-TCDD**

200528R2\_4

13C-1,2,3,4-TCDD  
25.90  
5.62e5  
7746107

13C-2,3,7,8-TCDD  
26.54  
6.65e5  
9641050

F1:Voltage SIR,EI+  
331.9368  
9.690e+006

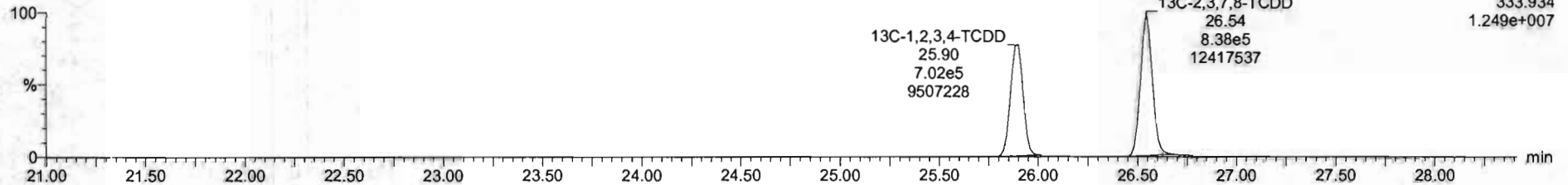


200528R2\_4

13C-1,2,3,4-TCDD  
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7.02e5  
9507228

13C-2,3,7,8-TCDD  
26.54  
8.38e5  
12417537

F1:Voltage SIR,EI+  
333.934  
1.249e+007



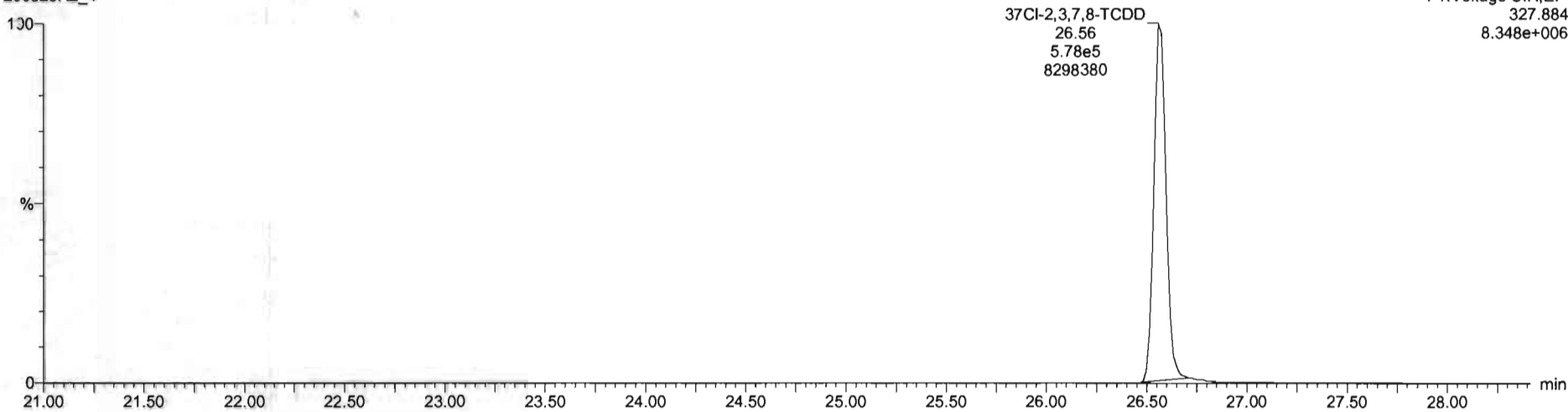
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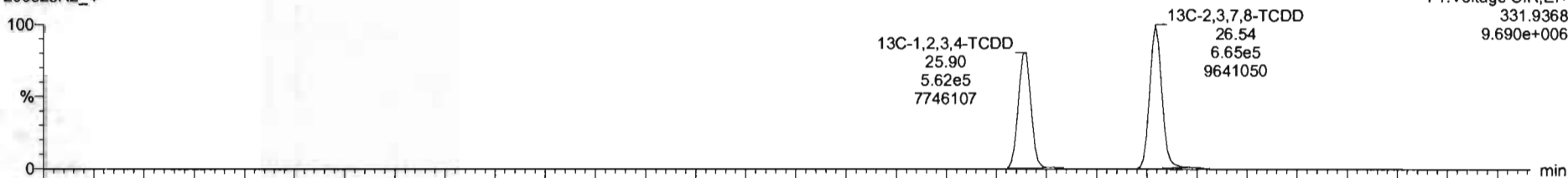
**37Cl-2,3,7,8-TCDD**

200528R2\_4

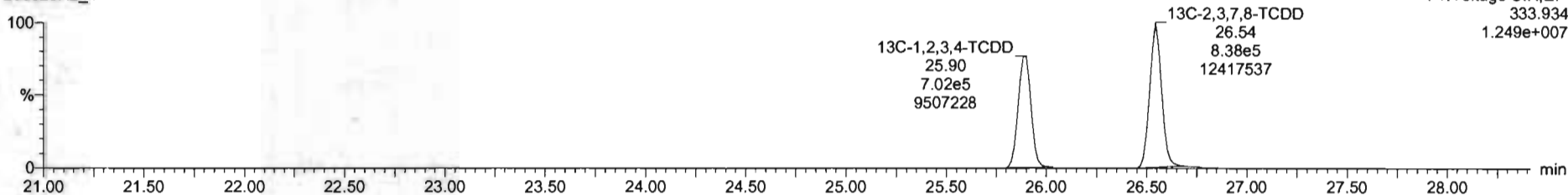


**13C-1,2,3,4-TCDD**

200528R2\_4



200528R2\_4





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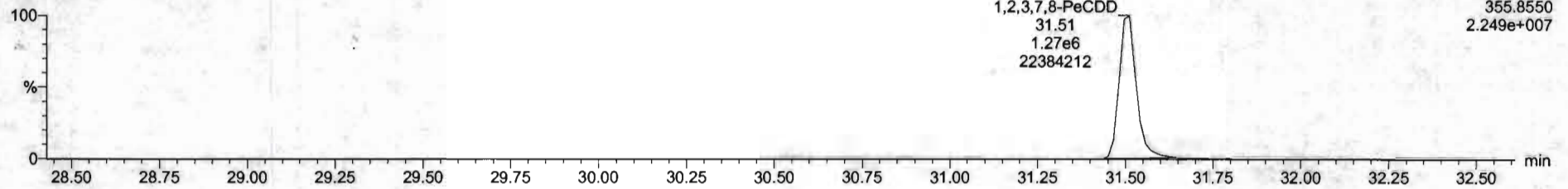
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**1,2,3,7,8-PeCDD**

200528R2\_4

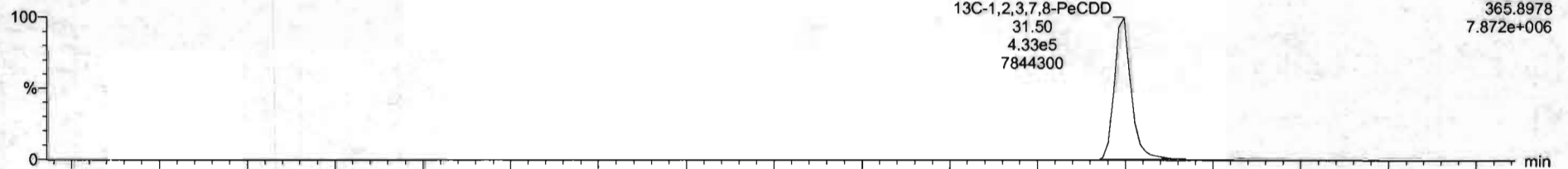


200528R2\_4

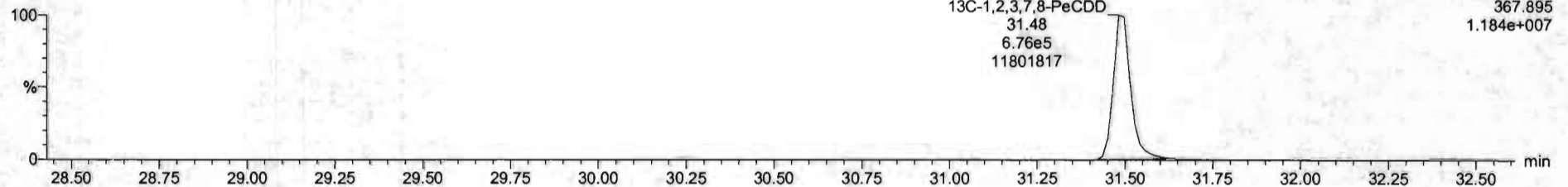


**13C-1,2,3,7,8-PeCDD**

200528R2\_4



200528R2\_4





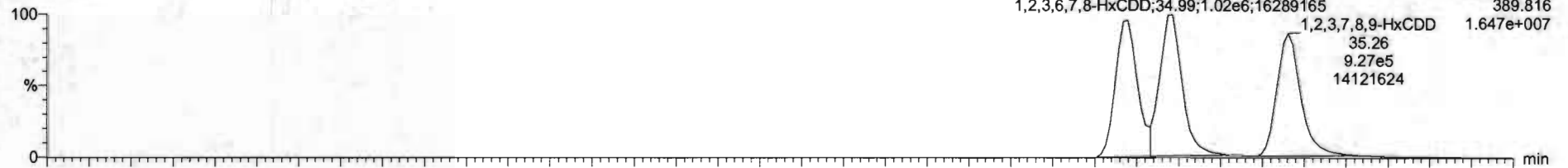
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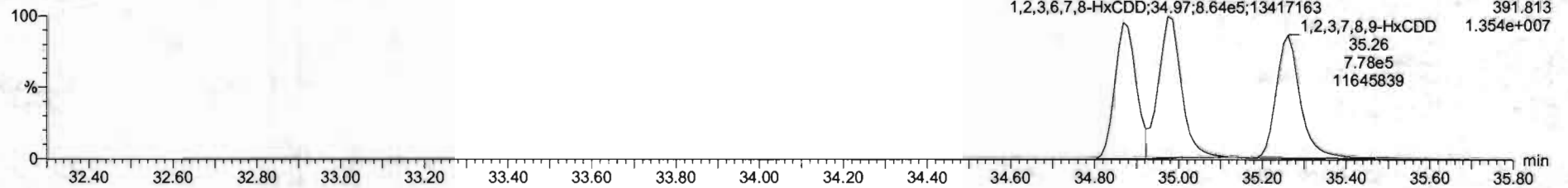
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1,2,3,4,7,8-HxCDD

200528R2\_4

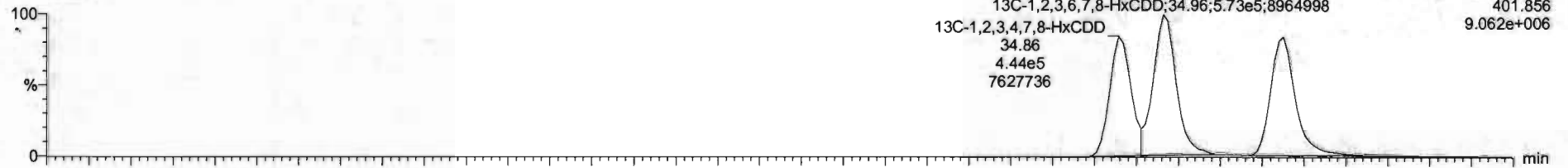


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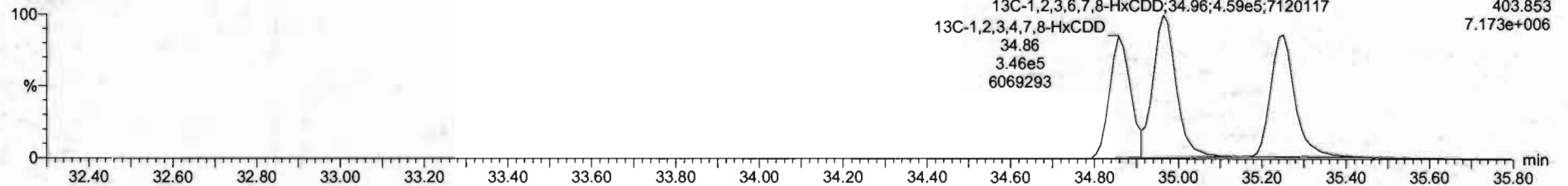


13C-1,2,3,4,7,8-HxCDD

200528R2\_4

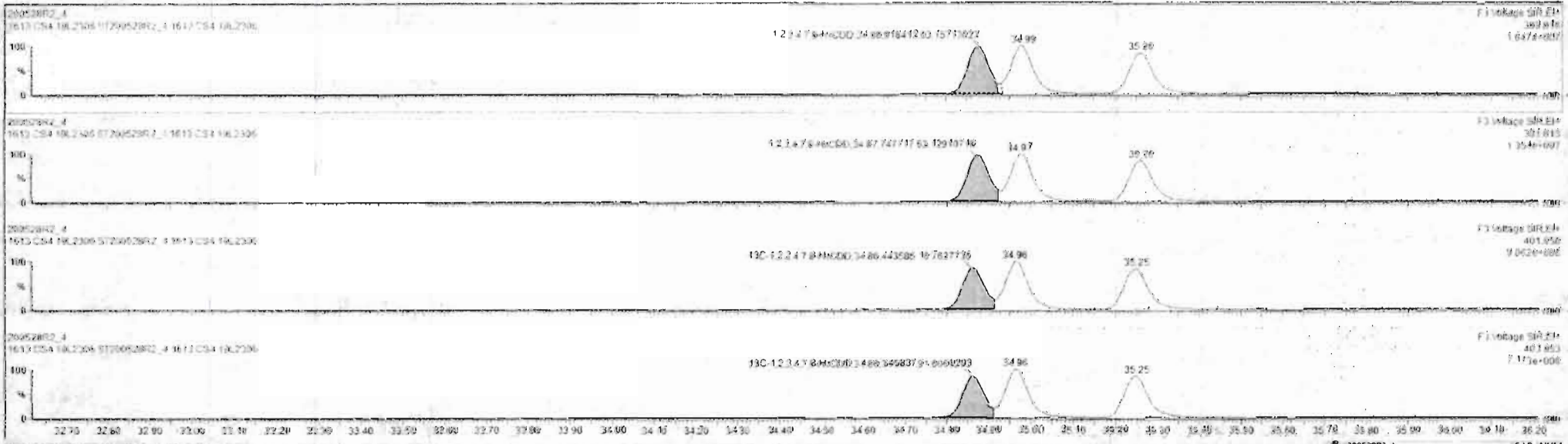


200528R2\_4



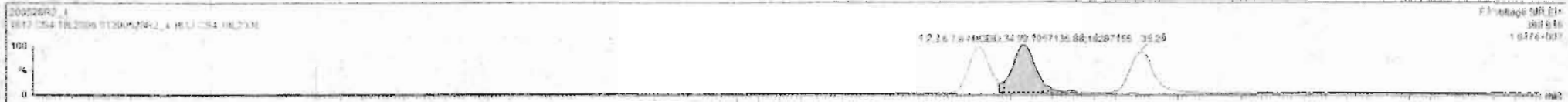


K1	Name	ResP	RA	n/y	RRF	inVol	RT	RRT	Conc	%Rec	DL	EMPC
1	1.2.3.7.8-TCDD	2.50e6	0.78	NO	0.882	1.000	26.99	1.001	41.2	101	0.129	41.2
2	1.2.3.7.8-HxCDD	2.25e6	0.83	NO	0.6091	1.000	31.51	1.000	205	102	0.0837	205
3	1.2.3.4.7.8-HxCDD	1.67e6	1.23	NO	1.0394	1.000	34.86	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.8921	1.000	34.98	1.001	200	104	0.111	200
5	1.2.3.7.8.9-HxCDD	1.70e6	1.26	NO	0.8865	1.000	35.25	1.000	210	105	0.113	210
6	1.2.3.4.6.7.8-HpCDD	1.25e6	1.02	NO	0.6839	1.000	36.80	1.000	211	105	0.218	211
7	OCDD	2.45e6	0.27	NO	0.9136	1.000	41.77	1.000	397	99.4	0.192	397
8	1.2.3.6.7.8-TCDF	6.52e6	0.76	NO	0.7018	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	34.86	1.014	103	103	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.07e6	1.25	NO	1.0147	1.000	34.98	1.017	104	104	0.121	



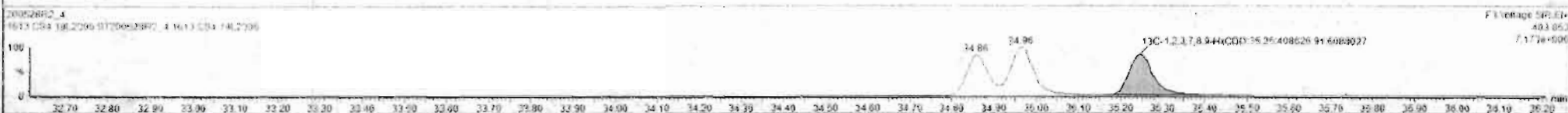
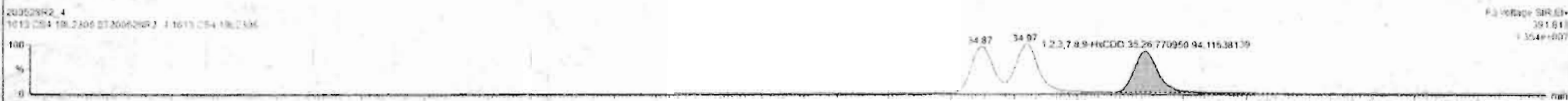
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#	Name	Keep	RA	RY	RP	Wt/Wt	RT	RRT	Conc	Wt/Wt	DL	EMPU
1	1.2.3.7.8-TCDF	1.50e6	0.18	NO	0.0061	1.000	36.96	1.001	41.2	101	0.124	41.1
2	1.2.3.7.8-HxCDD	2.56e6	0.43	NO	0.0041	1.000	31.51	1.000	205	102	0.0017	204
3	1.2.3.7.8-HxCDF	1.87e6	1.23	NO	1.0734	1.000	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	0.219	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	0.7540	1.000	25.88	1.001	42.0	107	0.123	42.0
9	1.2.3.7.8-HxCDF	1.19e6	1.14	NO	0.0025	1.000	30.23	1.000	203	101	0.100	203
10	1.2.3.4.7.8-HxCDF	1.08e6	1.14	NO	0.0346	1.000	31.21	1.000	204	102	0.169	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.0041	1.000	33.99	1.000	200	104	0.221	200
12	1.2.3.6.7.8-HxCDF	2.16e6	1.10	NO	0.0092	1.000	34.12	1.001	206	103	0.203	206
13	1.2.3.4.6.7.8-HxCDF	2.68e6	1.19	NO	0.9341	1.000	34.71	1.001	207	103	0.219	207
14	1.2.3.7.8-HxCDF	1.68e6	1.20	NO	0.0007	1.000	35.62	1.001	208	104	0.215	208
15	1.2.3.4.6.7.8-HxCDF	1.43e6	0.99	NO	0.0734	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	1.2.3.7.8-HxCDD	1.11e6	0.84	NO	0.0490	1.000	31.00	1.210	103	103	0.176	103
20	1.2.3.4.7.8-HxCDD	7.39e6	1.25	NO	0.7790	1.000	34.06	1.014	103	103	0.172	103
21	1.2.3.7.8-HxCDD	1.02e6	1.25	NO	1.0187	1.000	34.96	1.017	104	104	0.171	104





#	Name	Resp	RA	ny	RRF	wtdwt	RT	RRT	Comp	%Rec	DL	IMP
1	1,2,3,6,7-CDD	0.56e6	0.76	NO	0.8863	1.000	26.56	1.091	41.7	102	0.124	41.4
2	1,2,3,7,8-HxCDD	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-HxCDD	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-HxCDD	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-HpCDD	1.25e6	1.62	NO	0.8830	1.000	38.50	1.000	211	105	0.133	211
7	COCDF	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-CDF	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-CDF	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-CDF	1.56e6	0.75	NO	1.1567	1.000	28.54	1.025	103	103	0.164	
19	1,2,3,4,7,8,9-HxCDD	1.11e6	0.64	NO	0.8469	1.000	31.50	1.216	103	103	0.139	
20	1,2,3,4,7,8-HpCDD	7.89e6	1.28	NO	0.7798	1.000	34.96	1.014	103	103	0.172	
21	1,2,3,6,7,8-HpCDD	1.03e6	1.35	NO	1.0187	1.000	34.96	1.017	104	104	0.121	



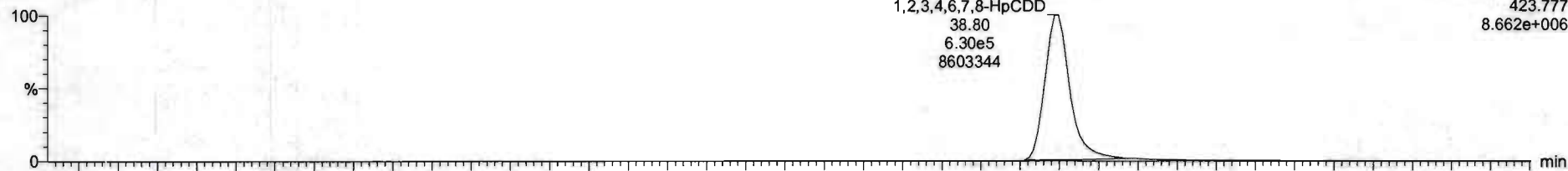
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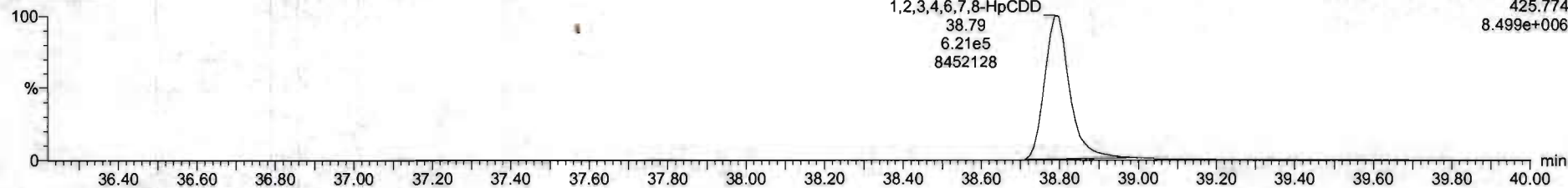
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**1,2,3,4,6,7,8-HpCDD**

200528R2\_4

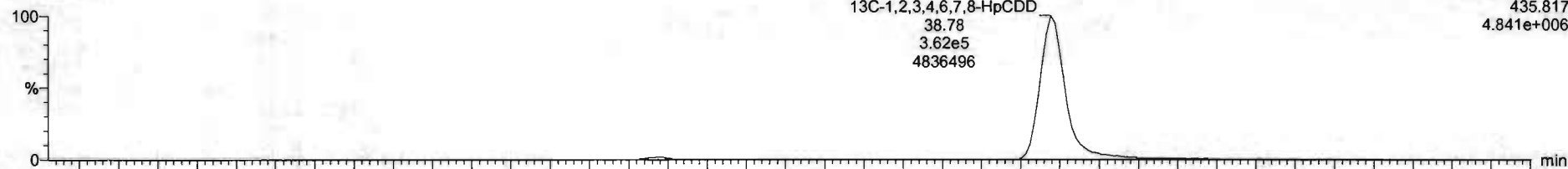


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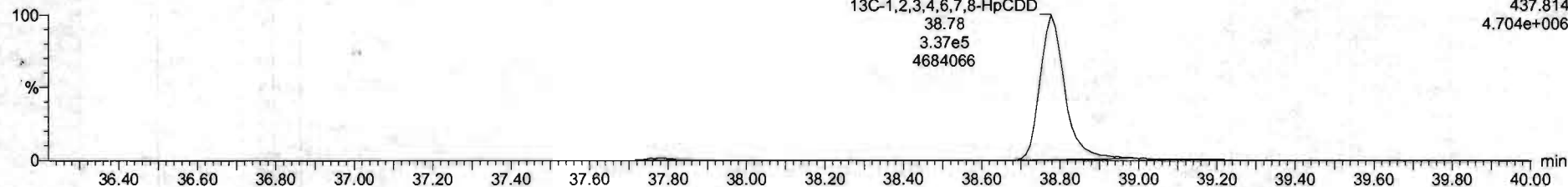


**13C-1,2,3,4,6,7,8-HpCDD**

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	0.6837	205
3	1,2,3,4,7,8-HxCDD	1.67e6	1.23	NO	1.0334	1.000	34.80	1.001	204	102	0.115	204
4	1,2,3,6,7,8-HxCDD	1.92e6	1.22	NO	0.8927	1.000	34.99	1.001	209	104	0.111	209
5	1,2,3,7,8,9-HxCDD	1.76e6	1.26	NO	0.8665	1.000	35.25	1.000	210	105	0.133	210
6	1,2,3,4,6,7,8-HpCDD	1.25e6	1.02	NO	0.8839	1.000	36.80	1.000	211	105	0.210	211
7	CDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.192	397
8	2,3,7,8-TCDF	6.52e6	0.76	NO	0.7510	1.000	26.68	1.001	42.0	107	0.123	42.0
9	1,2,3,7,8-HxCDF	3.94e6	1.54	NO	0.8305	1.000	30.21	1.000	203	101	0.118	203
10	1,2,3,4,7,8-PeCDF	3.06e6	1.54	NO	0.9349	1.000	31.21	1.000	204	102	0.109	204
11	1,2,3,4,7,8-HxCDF	1.87e6	1.16	NO	0.8845	1.000	33.99	1.000	208	104	0.221	208
12	1,2,3,6,7,8-HxCDF	2.16e6	1.10	NO	0.8062	1.000	34.12	1.001	208	103	0.203	208
13	1,2,3,4,7,8-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	0.8707	1.000	35.62	1.001	208	104	0.313	208
15	1,2,3,4,6,7,8-HpCDF	1.43e6	0.99	NO	0.8734	1.000	37.39	1.000	213	106	0.213	213
16	1,2,3,4,7,8,9-HpCDF	1.13e6	0.98	NO	1.0128	1.000	38.32	1.000	214	107	0.227	214
17	CDF	2.54e6	0.87	NO	0.8085	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	103	103	0.139	
20	1,2,3,4,7,8-HxCDF	7.98e6	1.28	NO	0.7790	1.000	34.90	1.014	103	103	0.172	
21	1,2,3,4,6,7,8-HpCDF	1.03e6	1.25	NO	1.0167	1.000	34.96	1.017	104	104	0.131	





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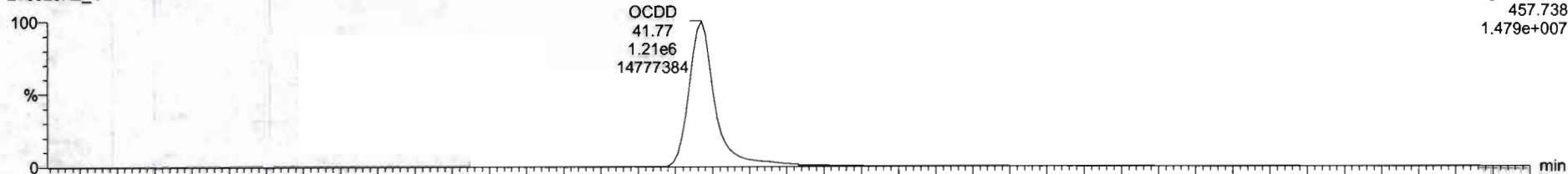
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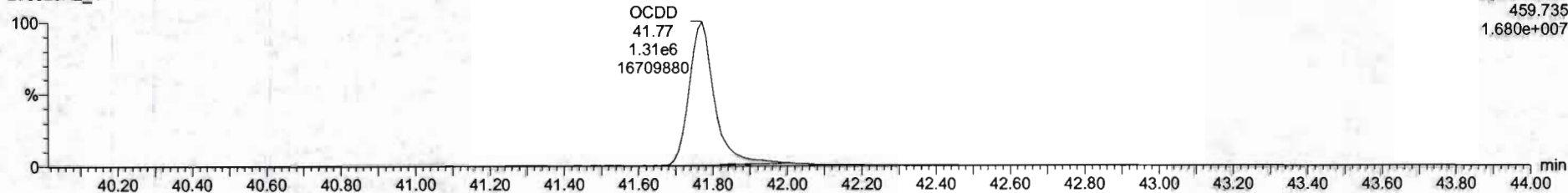
OCDD

200528R2\_4



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1.479e+007

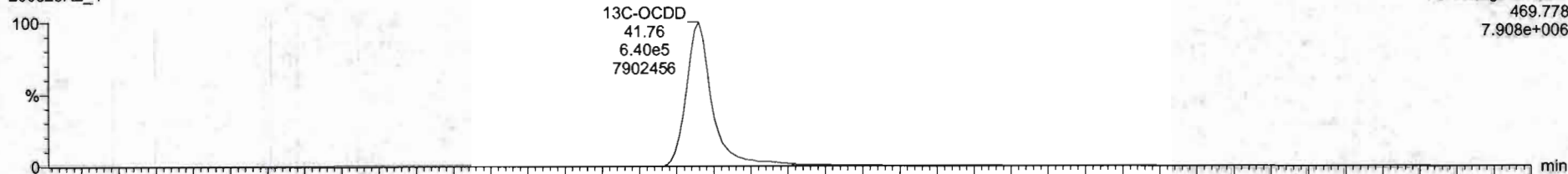
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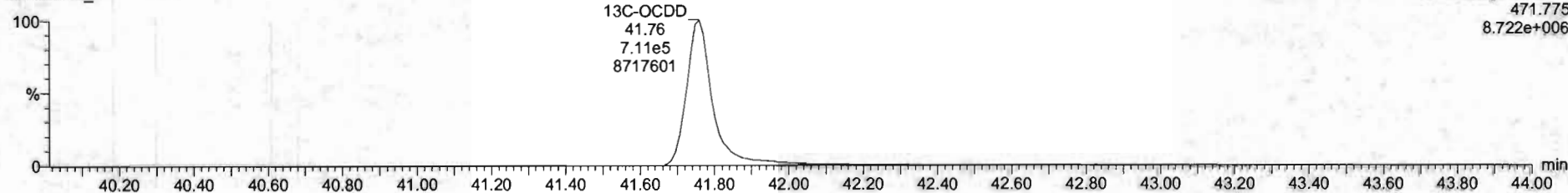
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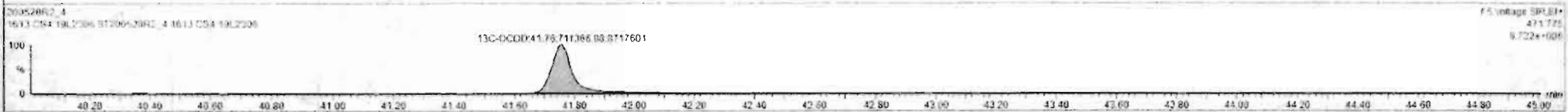
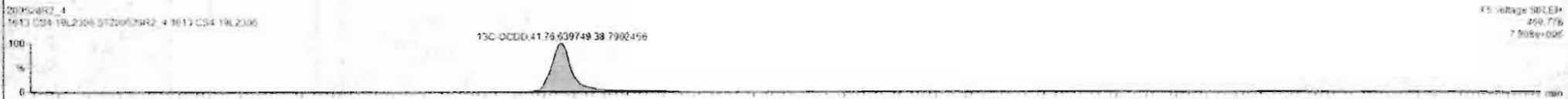
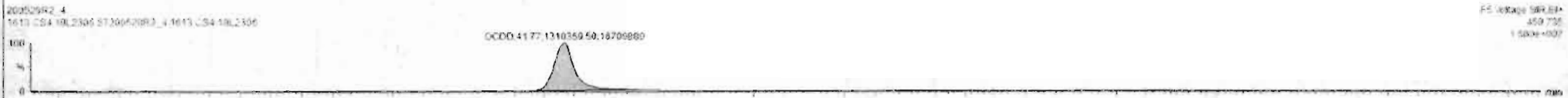
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7.908e+006

200528R2\_4



F5: Voltage SIR, EI+  
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8.722e+006

#	Name	Resp	RA	inj	RRF	wt/vol	RT	NRT	Conc	%Rec	DL	SI/PC
1	2.3.7.6-TCDD	3.56e5	0.76	NO	0.8883	1.000	28.56	1.001	41.2	101	0.134	41.2
2	1.2.3.7.5-PeCDD	2.06e5	0.63	NO	0.9051	1.000	31.01	1.000	205	102	0.6837	205
3	1.2.3.4.7.8-HxCD	1.07e5	1.23	NO	1.0334	1.000	34.80	1.001	284	102	0.115	284
4	1.2.3.6.7.8-HxCDD	1.92e5	1.22	NO	0.8923	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.8.9-HxCDD	1.70e5	1.20	NO	0.8669	1.000	35.26	1.000	210	105	0.133	210
6	1.2.3.4.7.8.9-HpCDD	1.25e5	1.02	NO	0.8639	1.000	36.80	1.000	211	105	0.115	211
7	OCDD	2.45e5	0.87	NO	0.9136	1.000	41.77	1.000	307	99.4	0.192	307
8	2.3.7.6-TCDF	4.52e5	0.76	NO	0.7510	1.000	28.56	1.001	42.8	107	0.123	42.8
9	1.2.3.7.8-PeCDF	2.94e5	1.54	NO	0.9905	1.000	30.23	1.000	203	101	0.118	203
10	1.2.3.4.7.8-HxCDF	1.00e5	1.54	NO	0.9348	1.000	31.21	1.000	204	102	0.100	204
11	1.2.3.4.7.8-HxCDF	1.87e5	1.18	NO	0.8545	1.000	33.99	1.000	205	104	0.221	208
12	1.2.3.6.7.8-HxCDF	2.16e5	1.10	NO	0.8062	1.000	34.12	1.001	206	103	0.205	206
13	1.2.3.4.7.8-HxCDF	2.00e5	1.19	NO	0.9383	1.000	34.71	1.001	207	103	0.219	207
14	1.2.3.7.8.9-HxCDF	1.60e5	1.20	NO	0.8707	1.000	35.62	1.001	208	104	0.313	208
15	1.2.3.4.7.8.9-HpCDF	1.43e5	0.99	NO	0.8734	1.000	37.55	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HpCDF	1.13e5	0.90	NO	1.0126	1.000	39.33	1.000	214	107	0.227	214
17	OCDF	2.54e5	0.87	NO	0.8085	1.000	41.96	1.000	402	100	0.171	402
18	13C-2.3.7.6-TCDD	1.58e5	0.75	NO	1.1583	1.000	28.54	1.025	103	103	0.184	
19	13C-1.2.3.7.8-PeCDD	1.11e5	0.64	NO	0.8490	1.000	31.50	1.216	103	103	0.136	
20	13C-1.2.3.4.7.8-HxCDD	7.88e5	1.28	NO	0.7790	1.000	34.86	1.014	103	103	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.03e5	1.25	NO	1.0187	1.000	34.96	1.017	104	104	0.131	





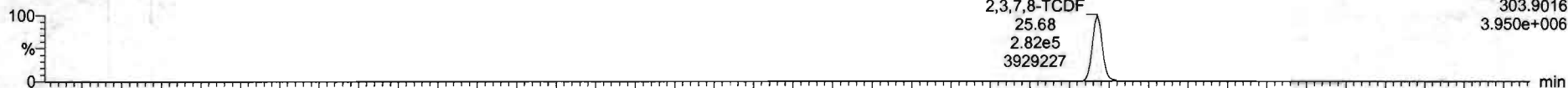
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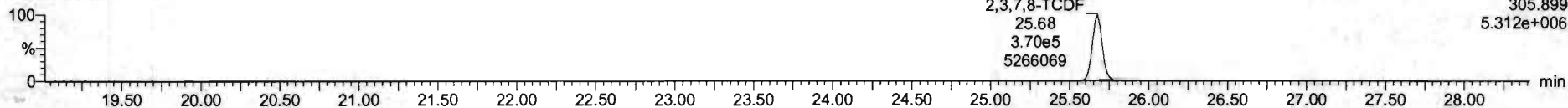
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**2,3,7,8-TCDF**

200528R2\_4

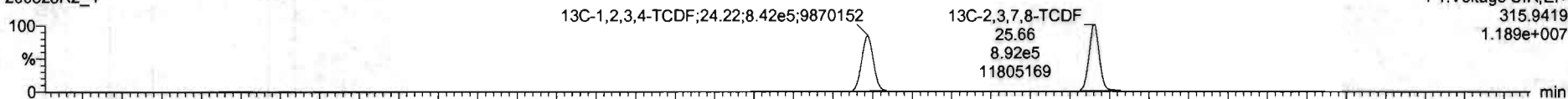


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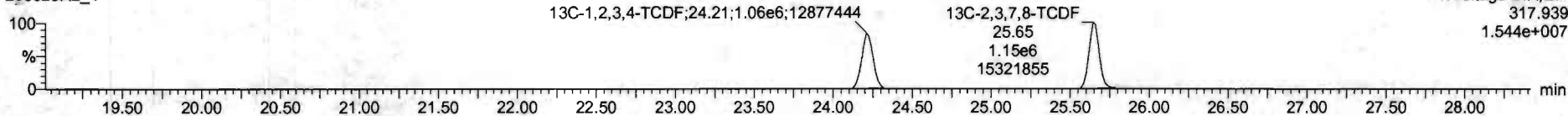


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200528R2\_4

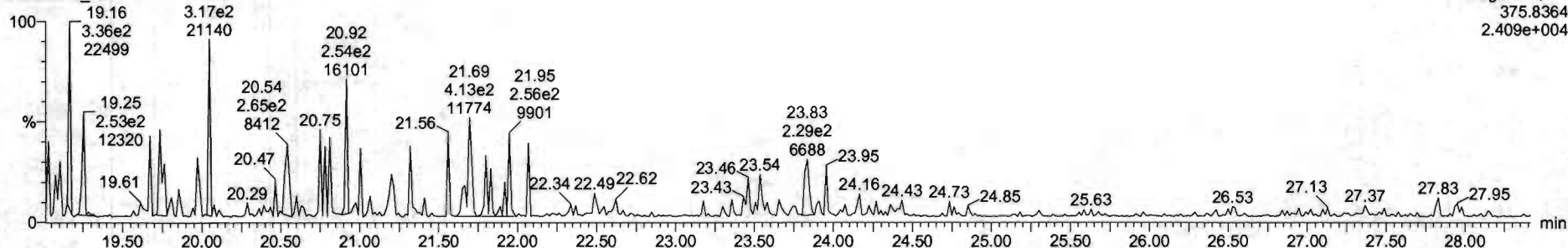


200528R2\_4



**DPE1**

200528R2\_4

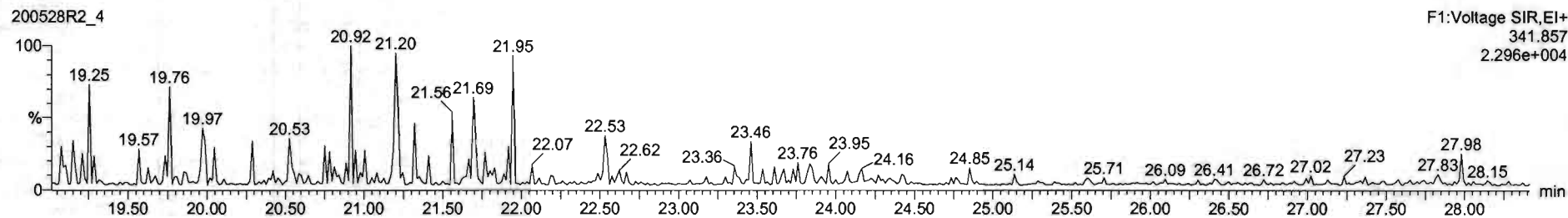
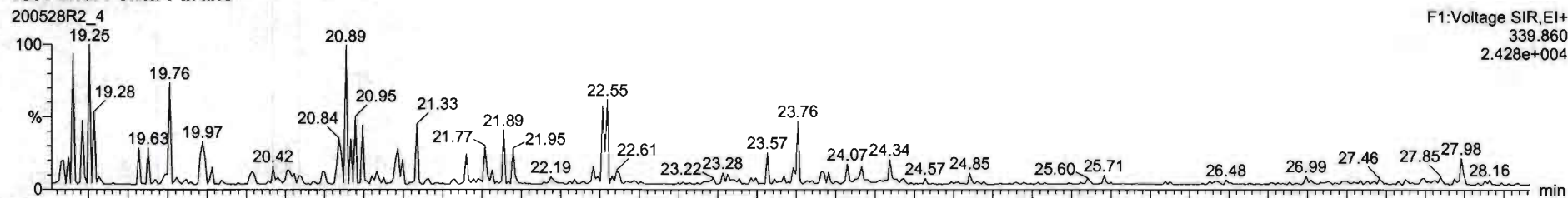


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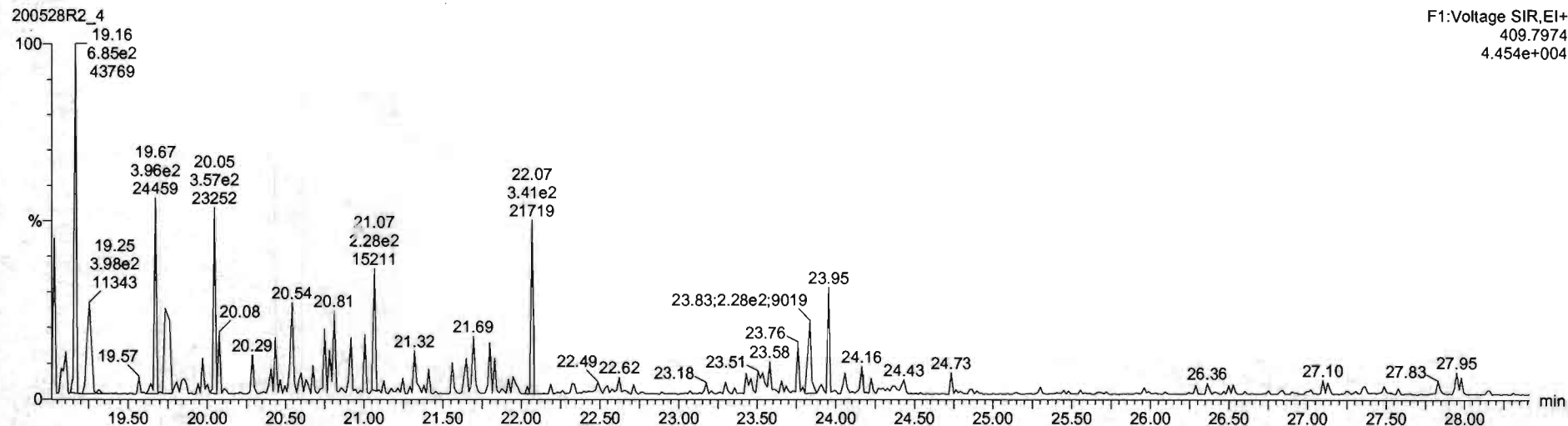
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DPE6



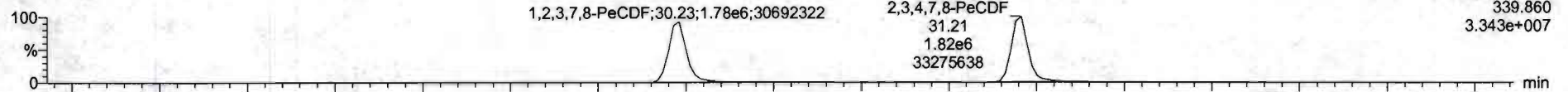
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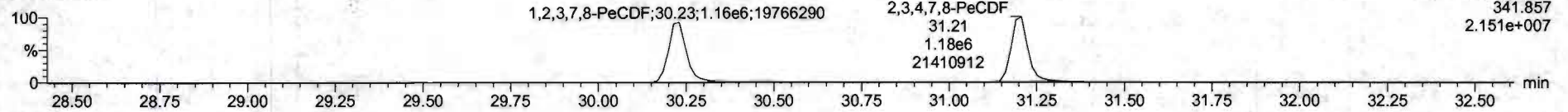
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**1,2,3,7,8-PeCDF**

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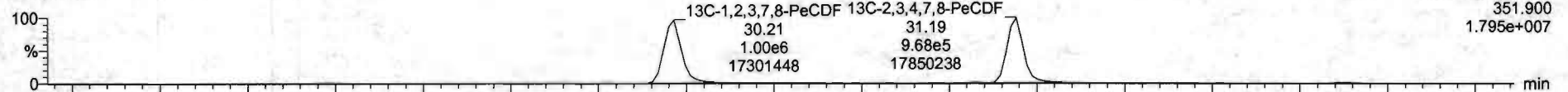


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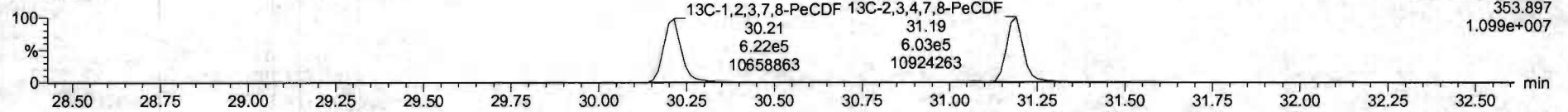


**13C-1,2,3,7,8-PeCDF**

200528R2\_4

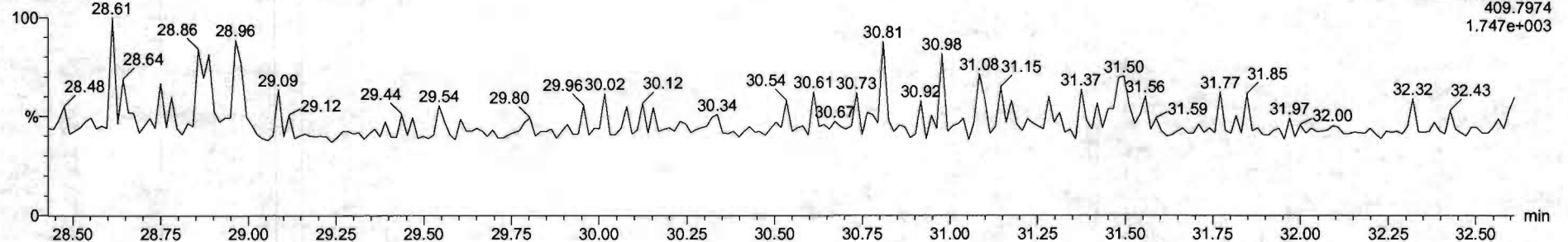


200528R2\_4



**DPE2**

200528R2\_4





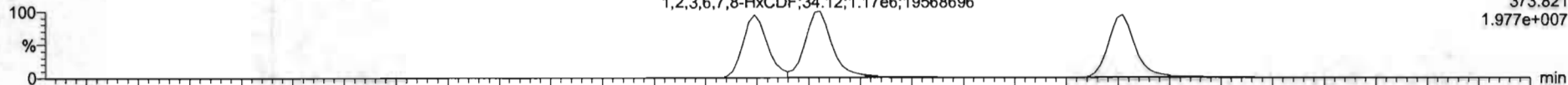
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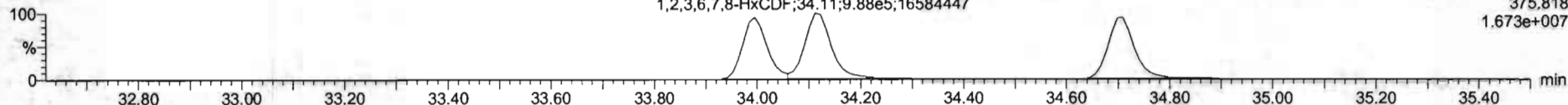
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**1,2,3,4,7,8-HxCDF**

200528R2\_4

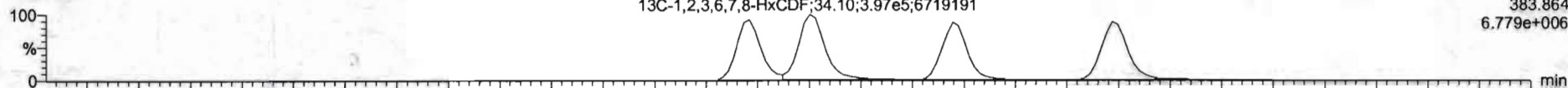


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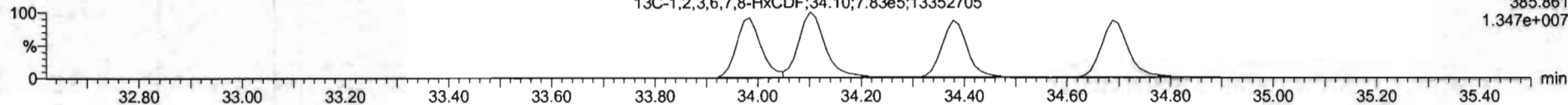


**13C-1,2,3,4,7,8-HxCDF**

200528R2\_4

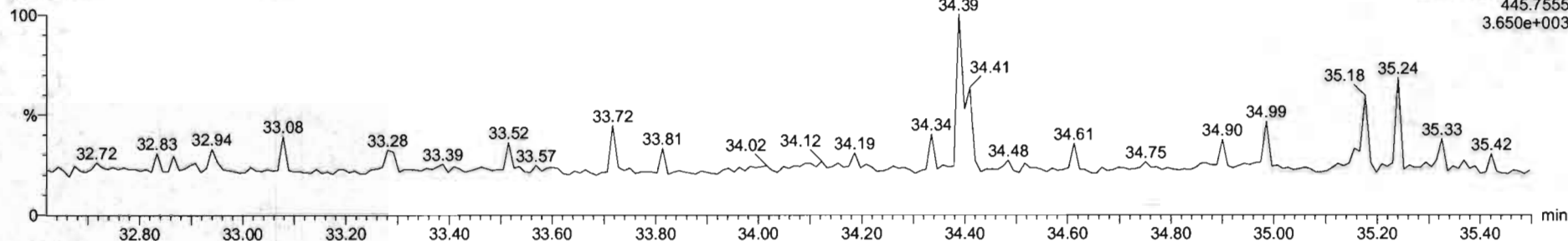


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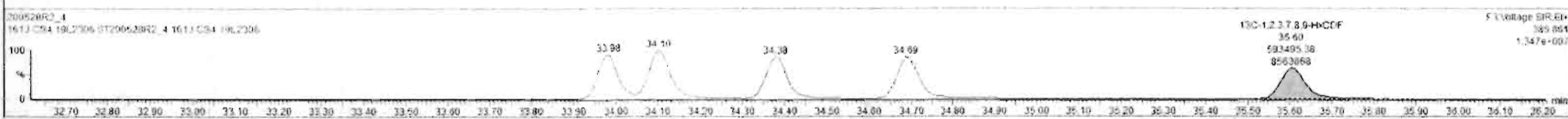
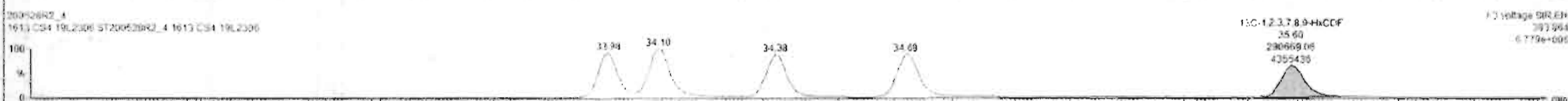


**DPE3**

200528R2\_4



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1	1.2.3.7.8-TCDD	3.56e5	0.78	NO	0.2882	1.000	26.96	1.001	41.2	103	0.124	11.2
2	1.2.3.7.8-HxCDD	2.06e6	0.83	NO	0.9081	1.000	31.91	1.000	285	100	0.0837	209
3	1.2.3.4.7.8-HxCDD	1.67e6	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	1.008	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	1.2.3.4.7.8.9-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-HpCDF	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	1.60e6	1.28	NO	0.6787	1.000	25.62	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	31.39	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	30.32	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	0.6468	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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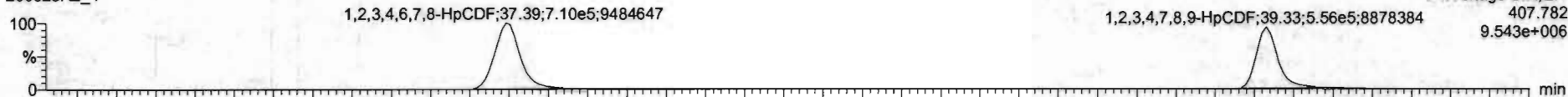
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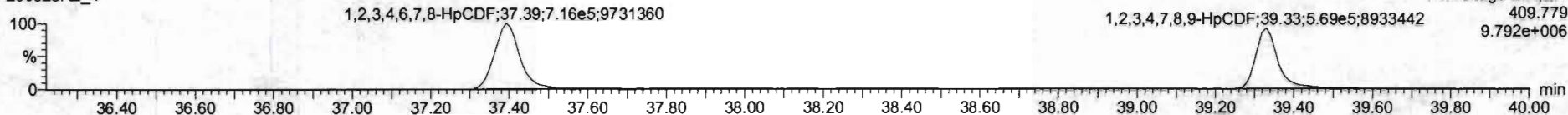
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**1,2,3,4,6,7,8-HpCDF**

200528R2\_4

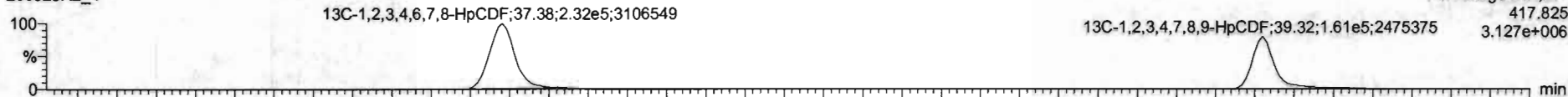


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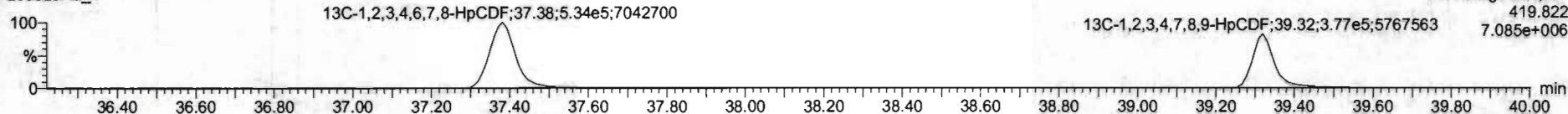


**13C-1,2,3,4,6,7,8-HpCDF**

200528R2\_4

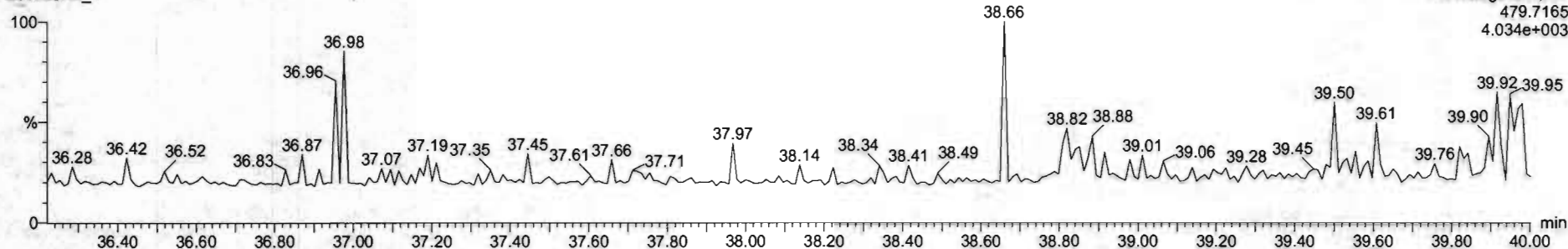


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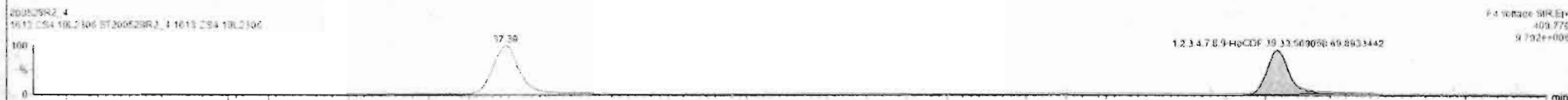
**DPE4**

200528R2\_4





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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	0.0837	205
3	1,2,3,4,7,8-HxCDD	1.87e6	1.23	NO	1.0334	1.000	34.86	1.001	204	102	0.115	204
4	1,2,3,8,7,8-HxCDD	1.82e6	1.22	NO	0.8521	1.000	34.90	1.001	200	104	0.111	200
5	1,2,3,7,9,8-HxCDD	1.70e6	1.20	NO	0.8969	1.000	35.26	1.000	210	105	0.133	210
6	1,2,3,4,6,7,8-HxCDD	1.25e6	1.02	NO	0.8631	1.000	36.90	1.000	211	105	0.219	211
7	OCDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.190	397
8	2,3,7,8-TCDF	6.52e5	0.76	NO	0.7510	1.000	25.66	1.001	42.6	107	0.123	42.2
9	1,2,3,7,9-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	2.54e6	0.87	NO	0.8085	1.000	41.96	1.000	402	100	0.171	402
18	13C-2,3,7,8-TCDD	1.54e6	0.75	NO	1.1563	1.000	26.54	1.025	107	103	0.164	
19	13C-1,2,3,7,8-PeCDD	1.11e6	0.64	NO	0.8469	1.000	31.50	1.216	103	103	0.138	
20	13C-1,2,3,4,7,8-HxCDD	7.89e5	1.26	NO	0.7790	1.000	34.96	1.014	103	103	0.132	
21	13C-1,2,3,6,7,8-HxCDD	1.03e6	1.25	NO	1.0167	1.000	34.96	1.017	104	104	0.121	



Custom Reporting: Select reports to generate

200528R2\_4 CAP NUM

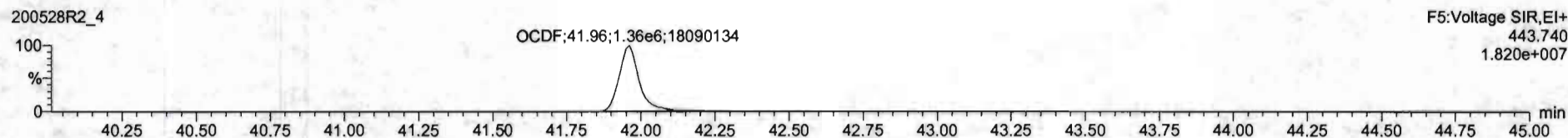
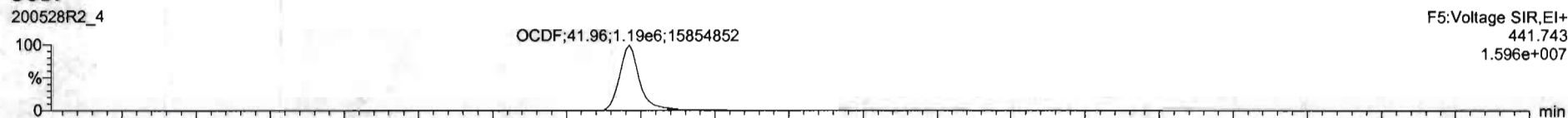
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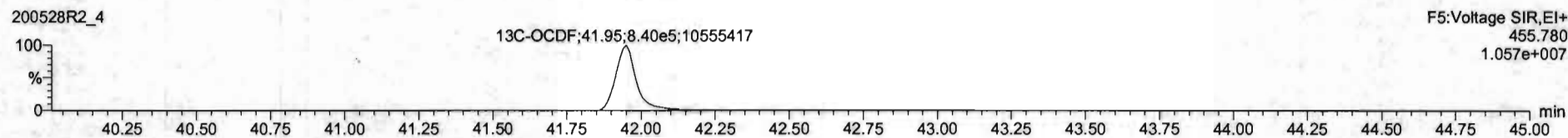
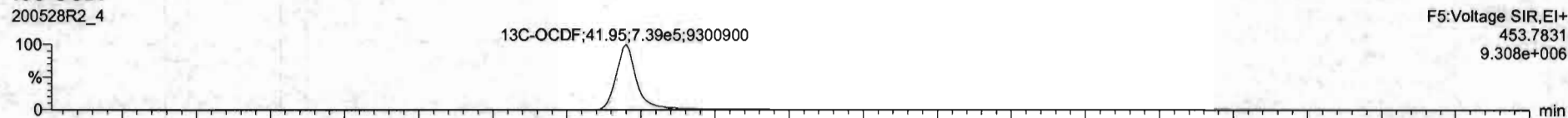
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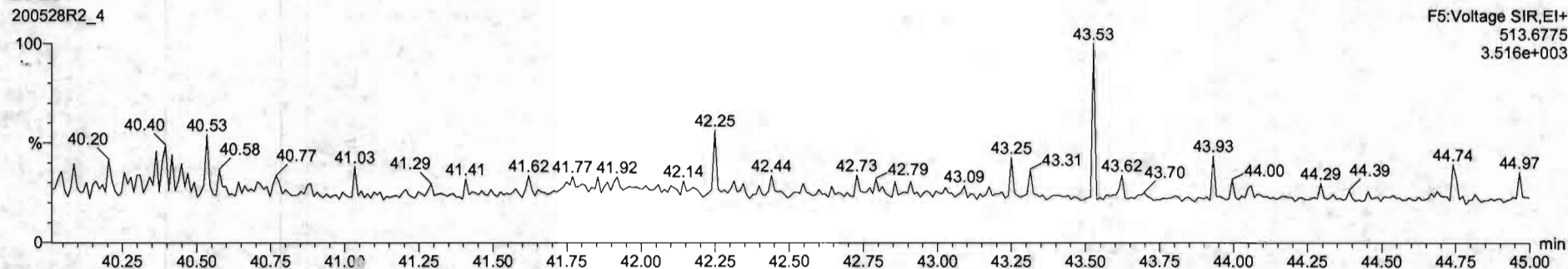
**OCDF**



**13C-OCDF**



**DPE5**





#	Name	Resp	RA	ntf	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
1	2.3.1.6-TCDD	1.50e5	0.78	NO	0.8863	1.000	26.56	1.001	41.2	101	0.124	41.2
2	1.2.3.7.5-PeCDD	2.06e6	0.83	NO	0.8081	1.000	31.51	1.000	205	102	0.0827	205
3	1.2.3.4.7.8-HxCDD	1.07e6	1.23	NO	1.0334	1.000	34.85	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.8929	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.8.9-HxCDD	1.76e6	1.20	NO	0.8265	1.000	35.26	1.000	210	105	0.123	210
6	1.2.3.4.6.7.8-HpCDD	1.25e6	1.02	NO	0.8633	1.000	36.40	1.000	211	105	0.218	211
7	OCDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.102	397
8	2.3.7.8-TCDF	0.52e5	0.76	NO	0.7510	1.000	25.05	1.001	42.0	107	0.127	42.0
9	1.2.3.7.8-PeCDF	2.94e6	1.54	NO	0.8925	1.000	36.23	1.000	203	101	0.118	203
10	1.2.3.4.7.8-HxCDF	2.00e6	1.54	NO	0.9349	1.000	31.21	1.000	204	102	0.109	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.8945	1.000	32.99	1.000	208	104	0.221	208
12	1.2.3.6.7.8-HxCDF	2.16e6	1.18	NO	0.8852	1.000	34.12	1.001	206	103	0.203	206
13	2.3.4.6.7.8-HxCDF	2.08e6	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	1.20	NO	0.8757	1.000	35.42	1.001	205	104	0.213	205
15	1.2.3.4.6.7.8-HpCDF	1.43e6	0.96	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	0.93	NO	1.0120	1.000	39.32	1.000	214	107	0.227	214
17	OCDF	2.54e6	0.87	NO	0.8055	1.000	41.96	1.000	402	100	0.171	402
18	1.2.3.2.3.7.8-TCDF	1.56e6	0.79	NO	1.1563	1.000	26.54	1.025	102	101	0.164	
19	1.2.3.1.2.3.7.8-PeCDD	0.11e6	0.84	NO	0.8496	1.000	31.00	1.210	103	103	0.130	
20	1.2.3.1.2.3.4.7.8-HxCDD	7.89e6	1.20	NO	0.7790	1.000	34.96	1.214	103	103	0.172	
21	1.2.3.1.2.3.6.7.8-HxCDD	1.03e6	1.25	NO	1.0187	1.000	34.96	1.017	104	104	0.121	



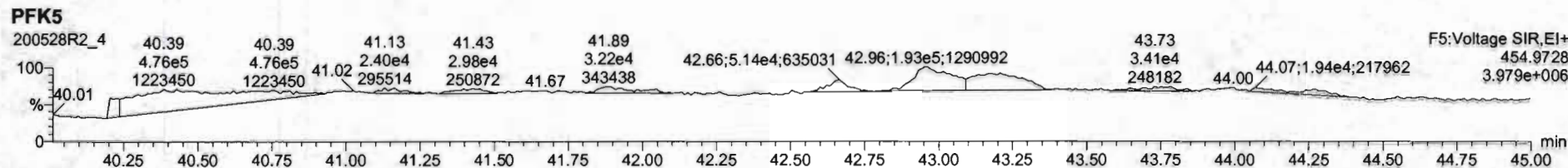
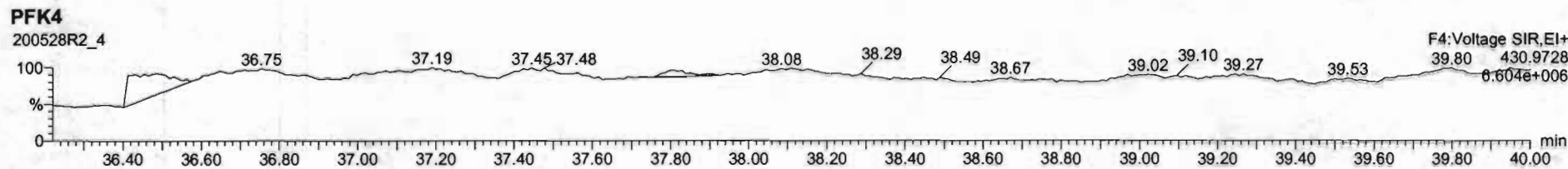
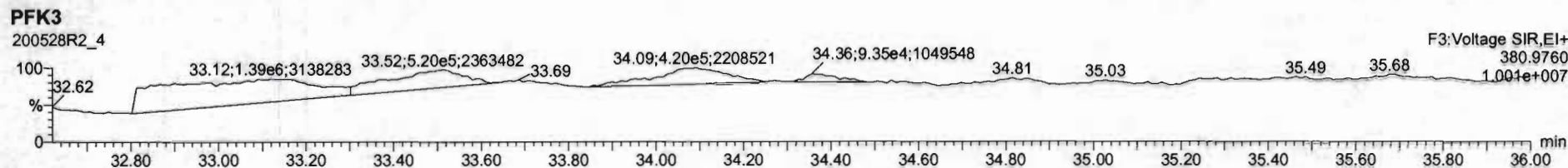
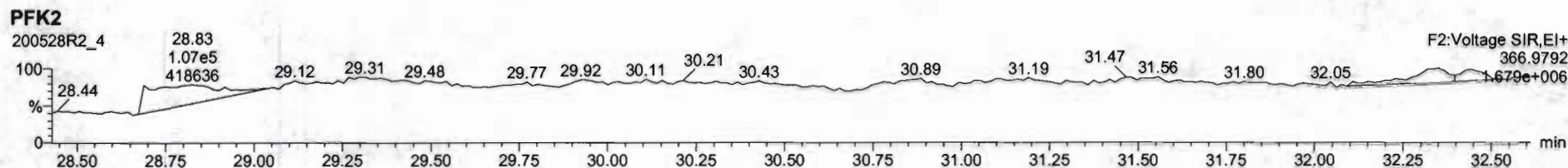
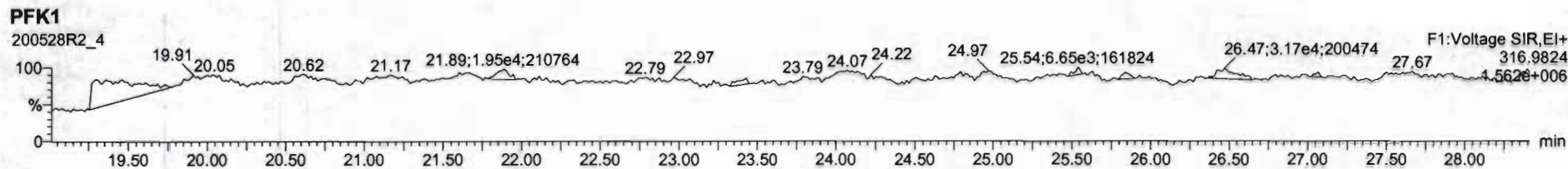
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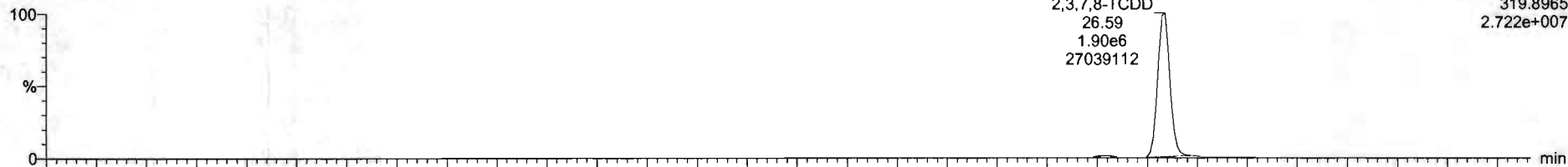
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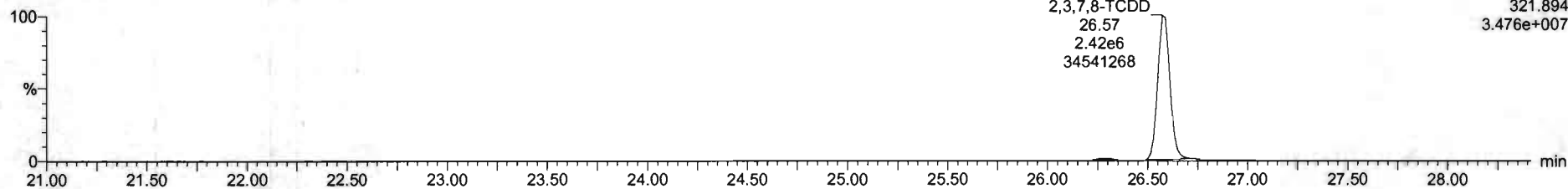
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**2,3,7,8-TCDD**

200528R2\_5

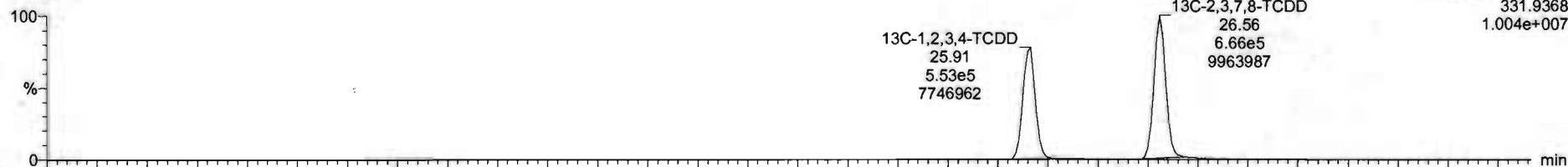


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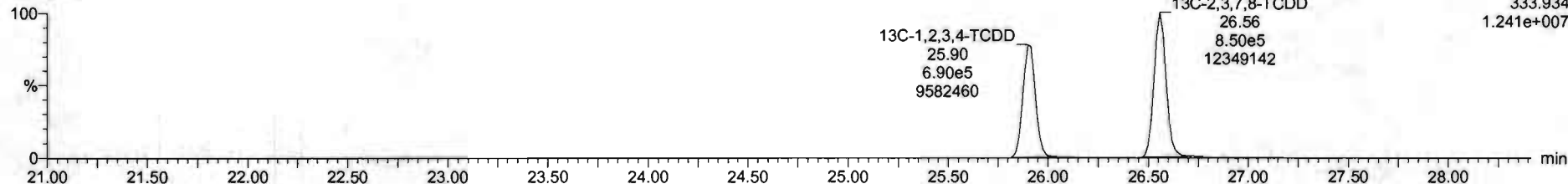


**13C-2,3,7,8-TCDD**

200528R2\_5



200528R2\_5





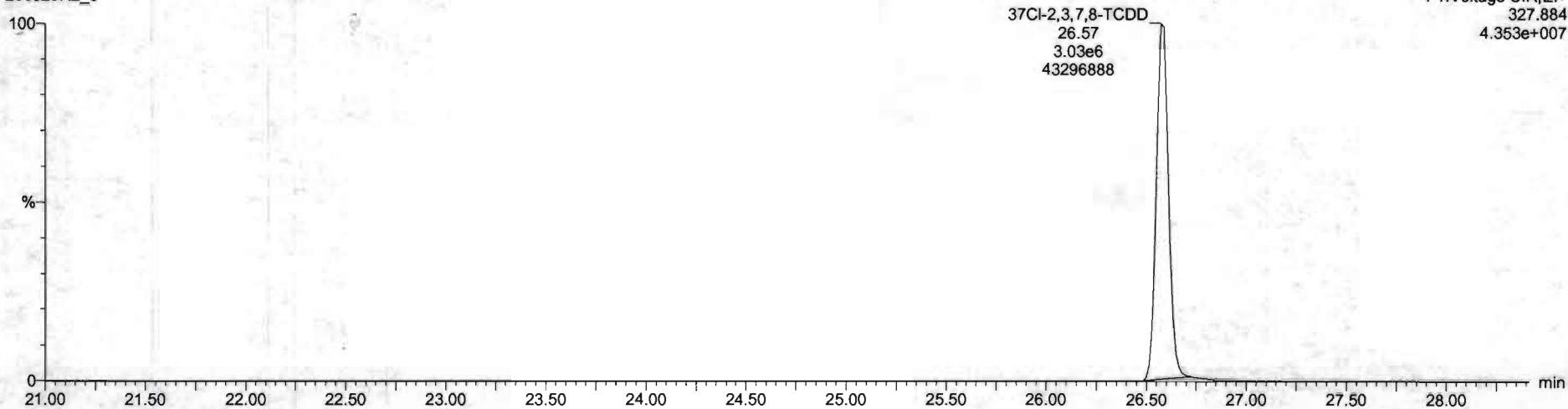
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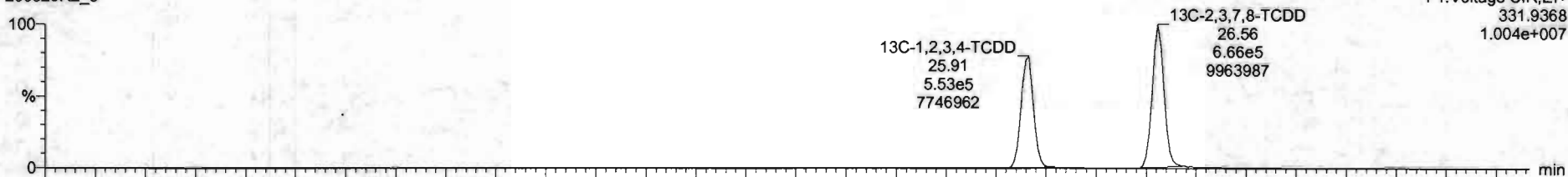
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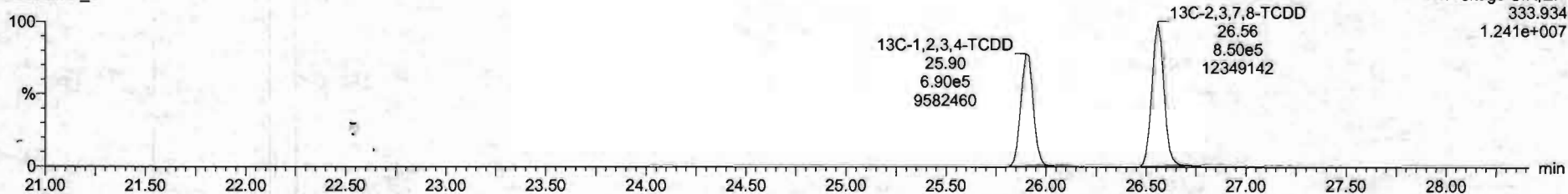


**13C-1,2,3,4-TCDD**

200528R2\_5



200528R2\_5



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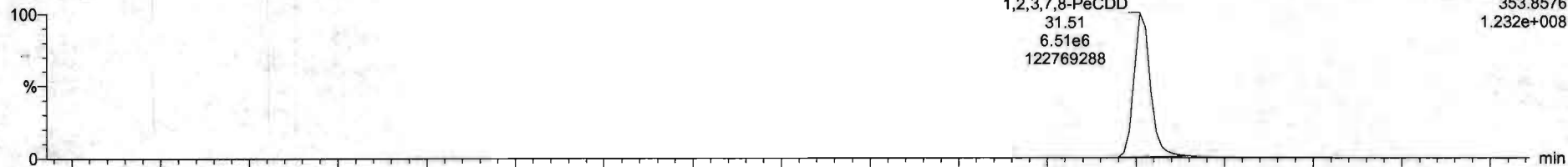
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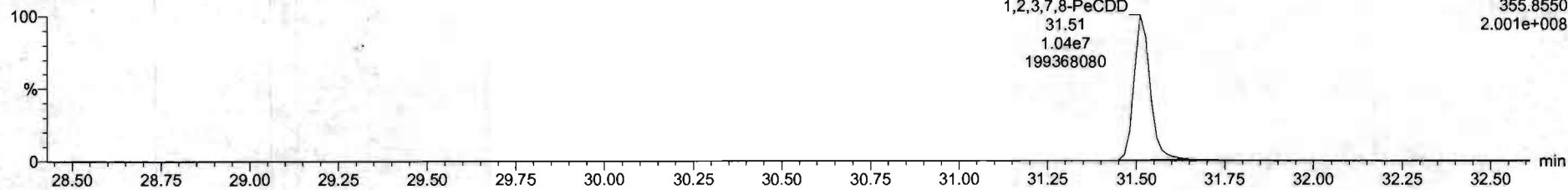
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1,2,3,7,8-PeCDD

200528R2\_5

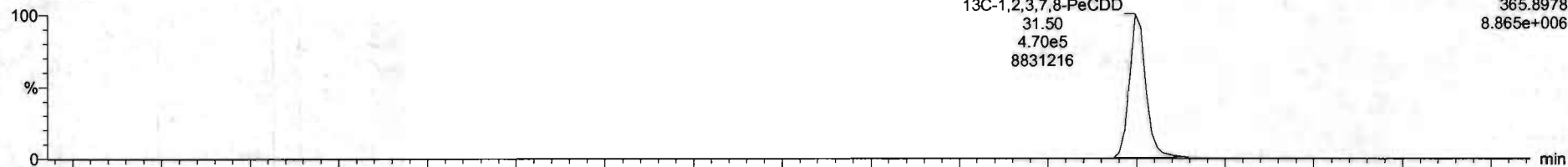


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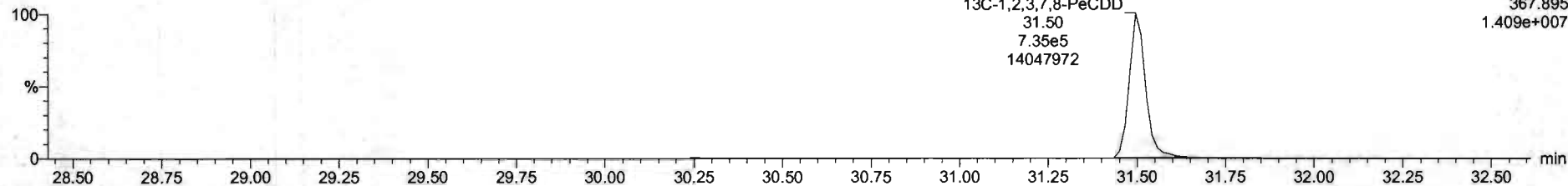


13C-1,2,3,7,8-PeCDD

200528R2\_5



200528R2\_5



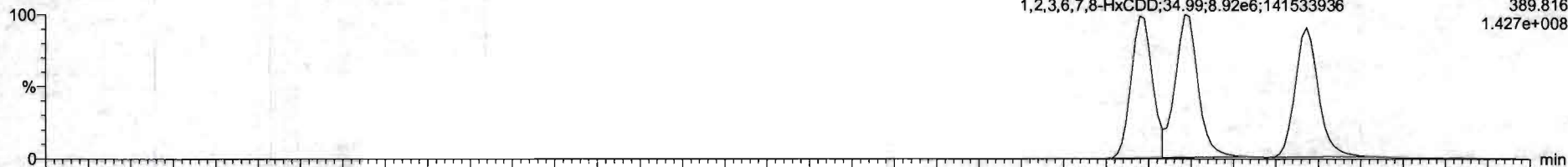
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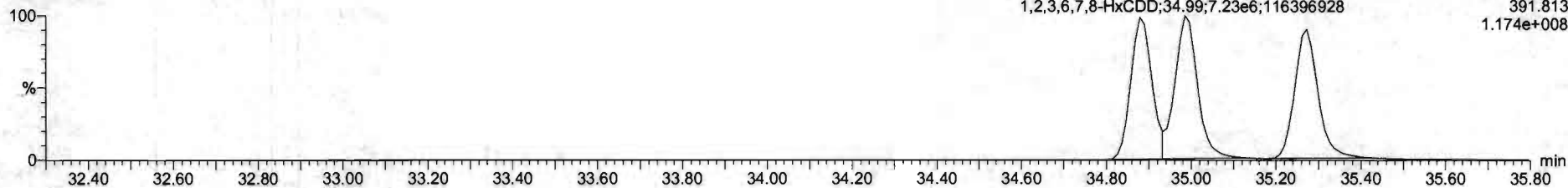
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200528R2\_5



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1.427e+008

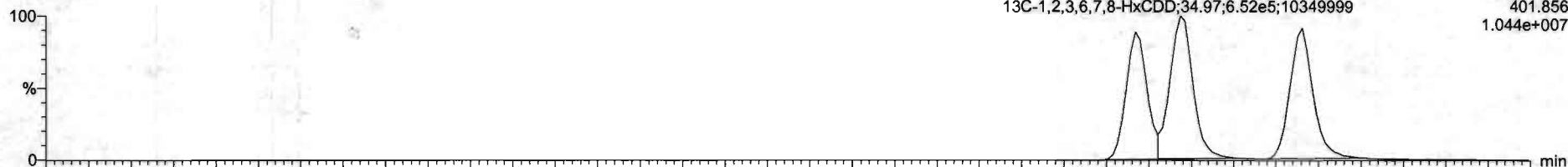
200528R2\_5



F3:Voltage SIR,EI+  
391.813  
1.174e+008

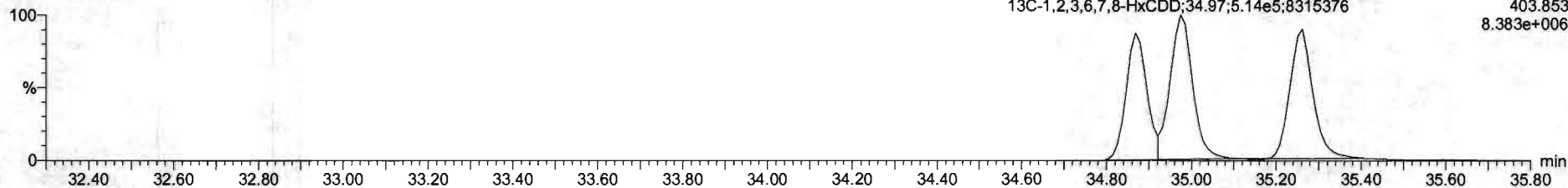
**13C-1,2,3,4,7,8-HxCDD**

200528R2\_5



F3:Voltage SIR,EI+  
401.856  
1.044e+007

200528R2\_5



F3:Voltage SIR,EI+  
403.853  
8.383e+006

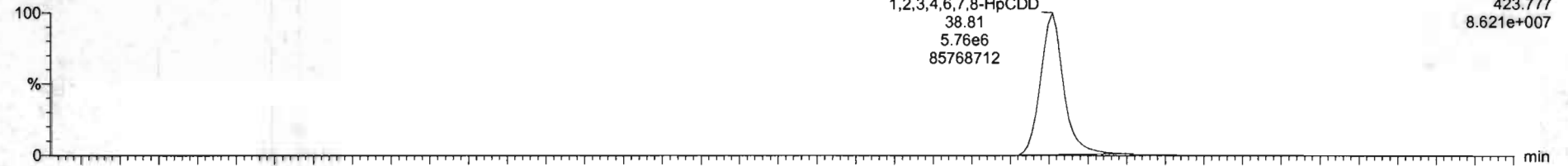
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

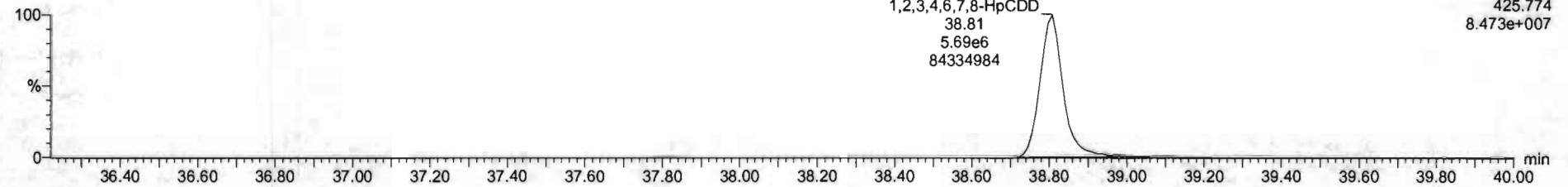
Name: 200528R2\_5, Date: 28-May-2020, Time: 15:02:56, ID: ST200528R2\_5 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200528R2\_5

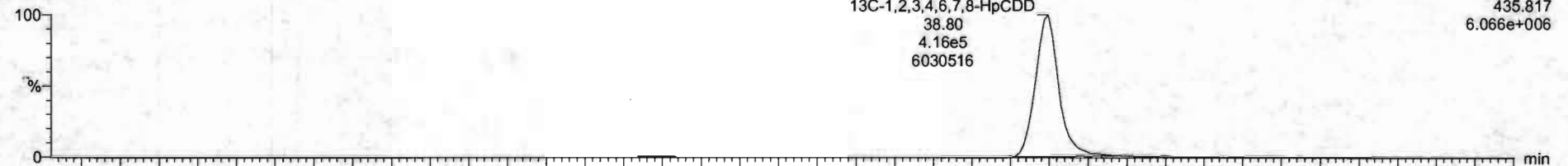


200528R2\_5

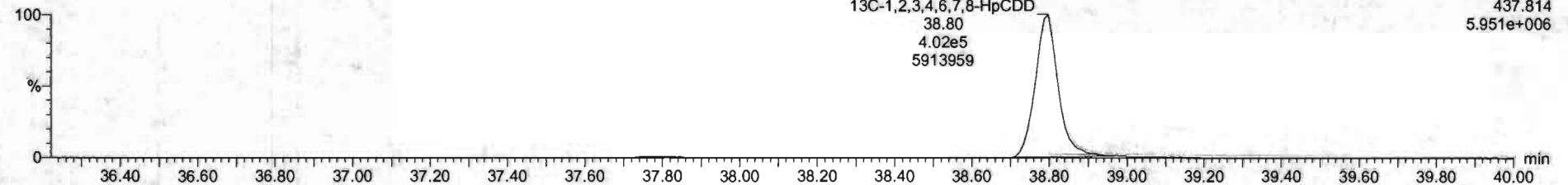


**13C-1,2,3,4,6,7,8-HpCDD**

200528R2\_5



200528R2\_5





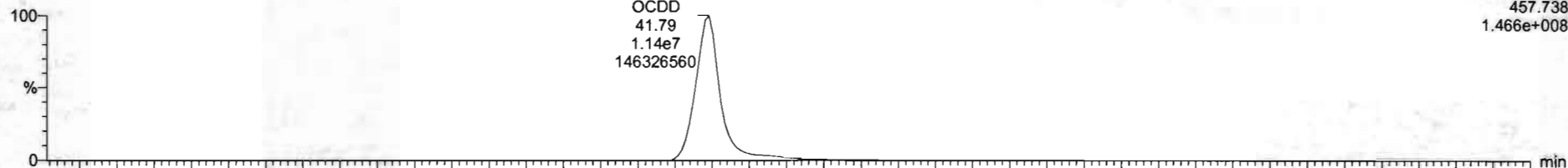
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Name: 200528R2\_5, Date: 28-May-2020, Time: 15:02:56, ID: ST200528R2\_5 1613 CS5 19L2307, Description: 1613 CS5 19L2307

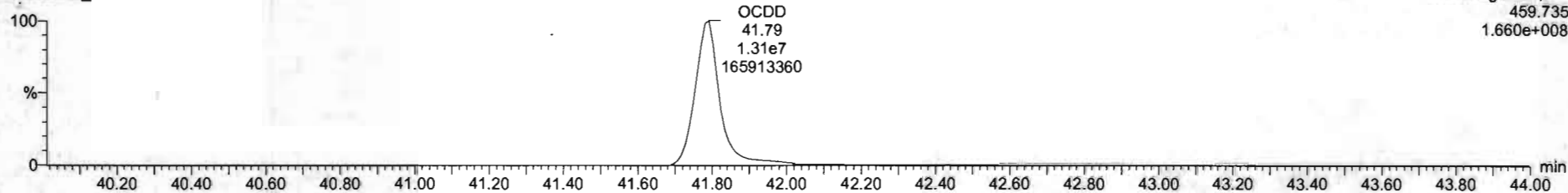
OCDD

200528R2\_5



F5: Voltage SIR, EI+  
457.738  
1.466e+008

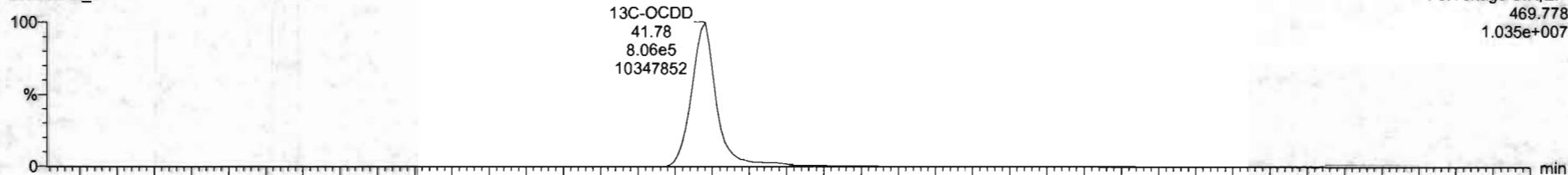
200528R2\_5



F5: Voltage SIR, EI+  
459.735  
1.660e+008

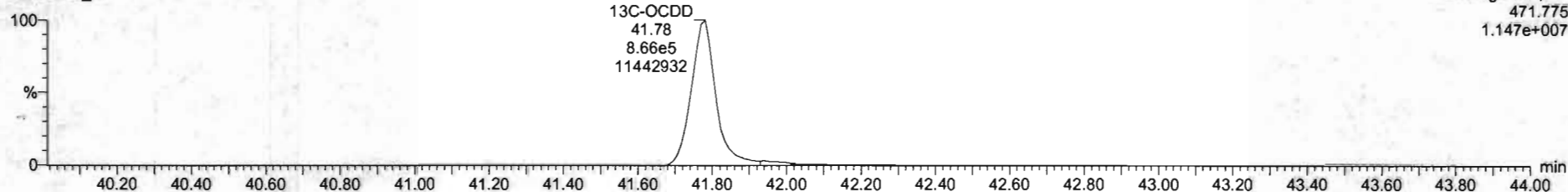
13C-OCDD

200528R2\_5



F5: Voltage SIR, EI+  
469.778  
1.035e+007

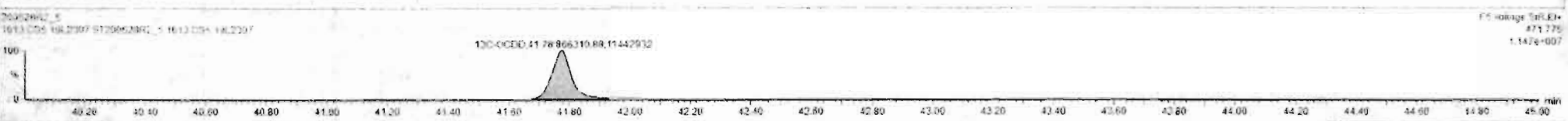
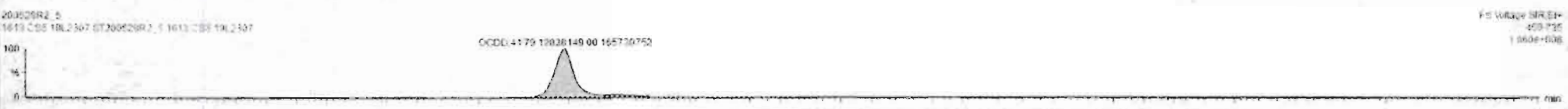
200528R2\_5



F5: Voltage SIR, EI+  
471.775  
1.147e+007



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-HeCDD	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-HiCDD	1.47e7	1.23	NO	1.0334	1.000	34.08	1.000	1520	101	0.130	1520
4	1.2.3.8.7.8-HiCDD	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-HiCDD	1.47e7	1.23	NO	0.9265	1.000	35.27	1.000	1570	104	0.107	1570
6	1.2.3.4.6.7.8-HiCDD	1.15e7	1.01	NO	0.8639	1.000	36.61	1.000	1620	105	0.161	1620
7	OCDD	2.37e7	0.84	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	320	105	0.0600	320
9	1.2.3.7.8-HeCDF	2.38e7	1.14	NO	0.8925	1.000	40.23	1.000	1570	101	0.231	1570
10	2.3.4.7.8-HeCDF	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-HiCDF	1.61e7	1.19	NO	0.8644	1.000	44.01	1.000	1590	106	0.103	1590
12	1.2.3.6.7.8-HiCDF	1.06e7	1.19	NO	0.8092	1.000	44.72	1.000	1530	101	0.0927	1530
13	2.3.4.6.7.8-HiCDF	1.72e7	1.19	NO	0.9341	1.000	44.72	1.001	1560	104	0.162	1560
14	1.2.3.7.8.9-HiCDF	1.49e7	1.26	NO	0.6707	1.000	45.63	1.000	1560	106	0.145	1560
15	1.2.3.4.6.7.8-HiCDF	1.28e7	1.09	NO	0.8734	1.000	47.40	1.000	1560	104	0.303	1560
16	1.2.3.4.7.8.9-HiCDF	1.05e7	1.00	NO	1.0172	1.000	48.34	1.000	1620	103	0.215	1620
17	OCDF	2.38e7	0.85	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	100	106	0.0720	100
19	13C-1.2.3.7.8-HeCDD	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-HiCDD	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-HiCDD	1.17e6	1.27	NO	1.0167	1.000	34.97	1.017	113	113	0.146	113



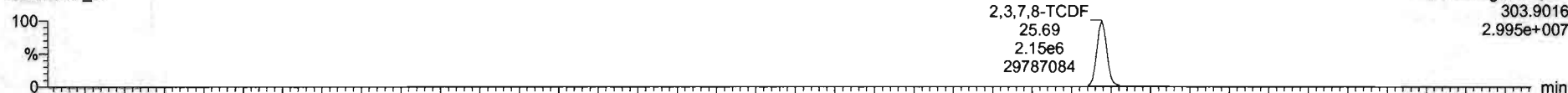
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

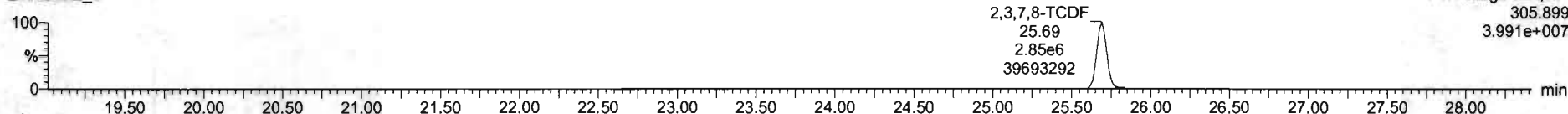
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**2,3,7,8-TCDF**

200528R2\_5

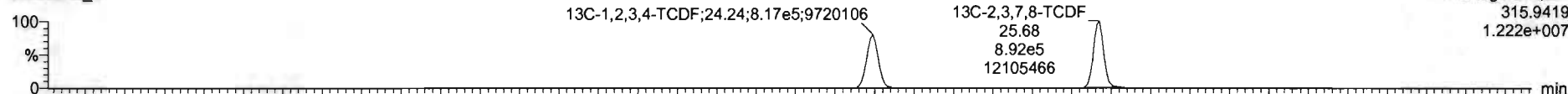


200528R2\_5

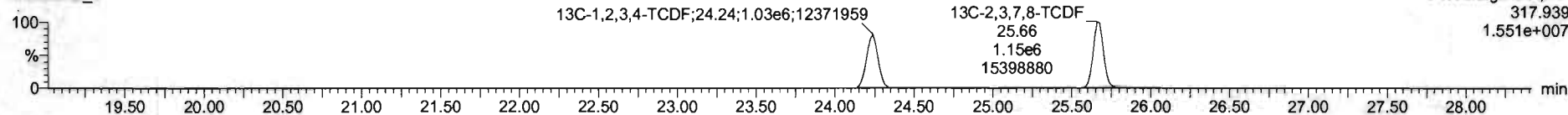


**13C-2,3,7,8-TCDF**

200528R2\_5

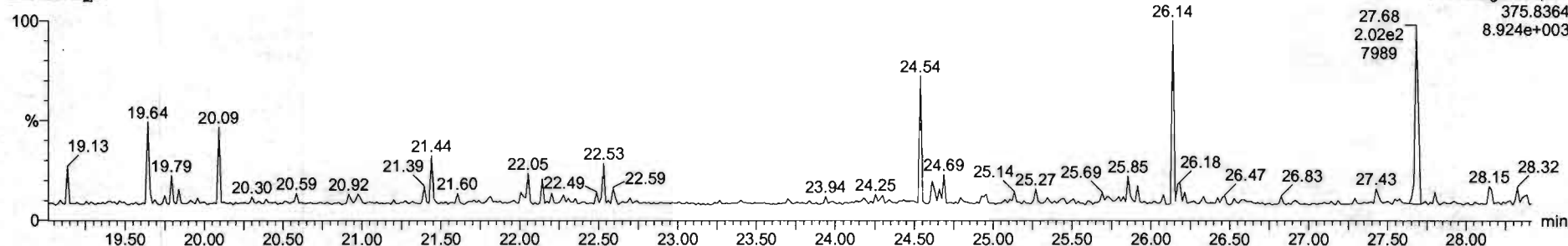


200528R2\_5



**DPE1**

200528R2\_5



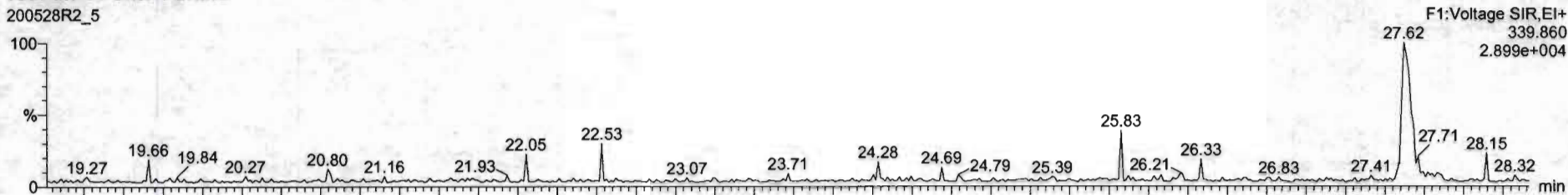
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

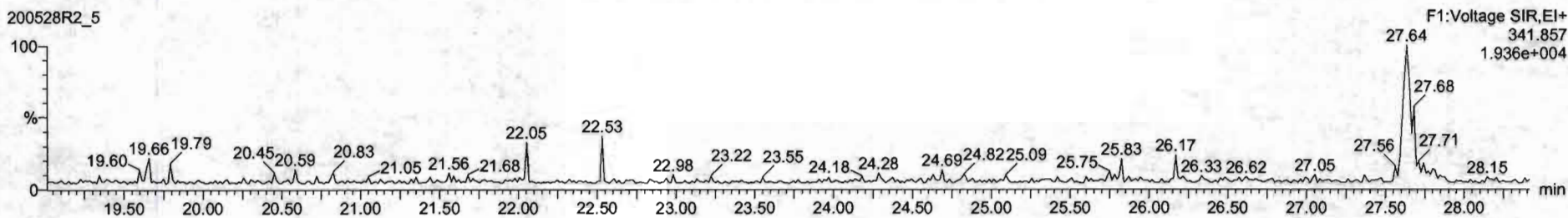
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200528R2\_5

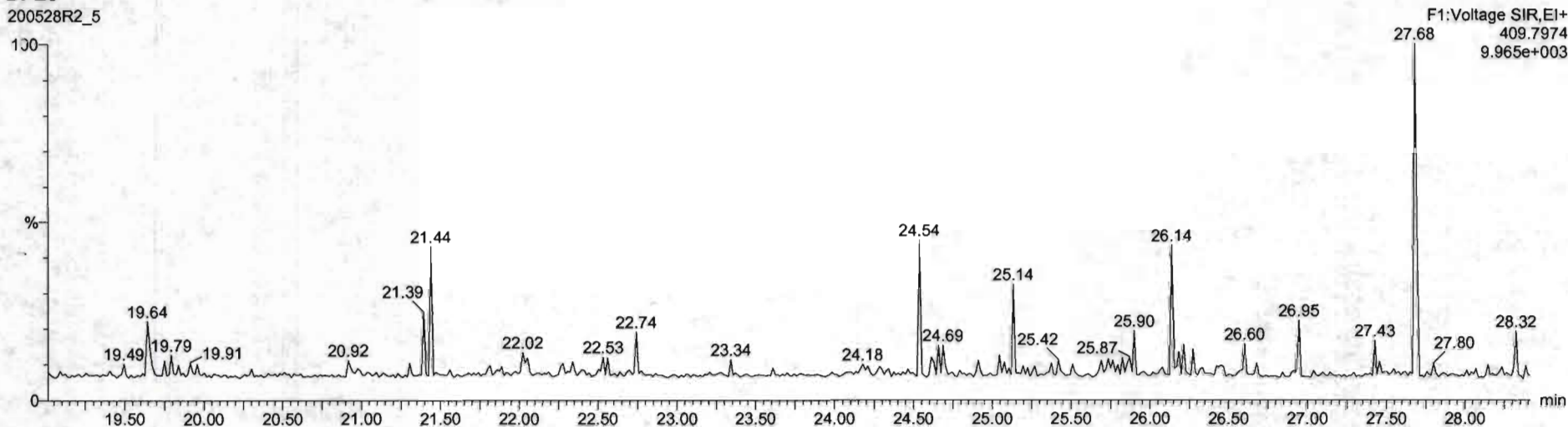


200528R2\_5



DPE6

200528R2\_5





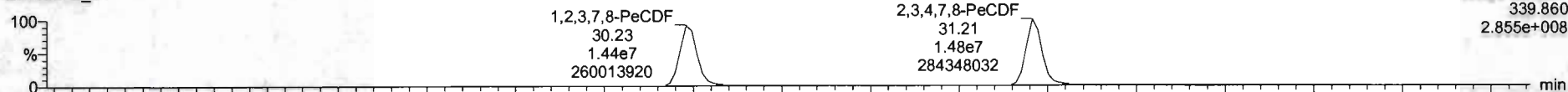
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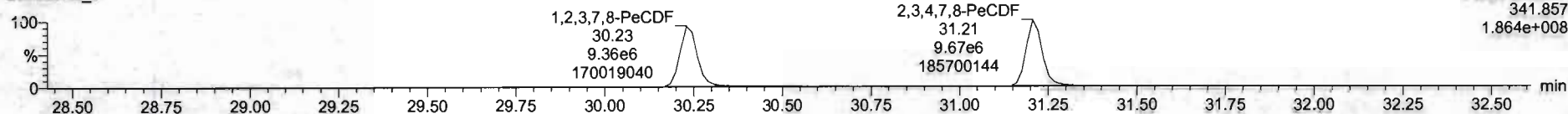
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**1,2,3,7,8-PeCDF**

200528R2\_5

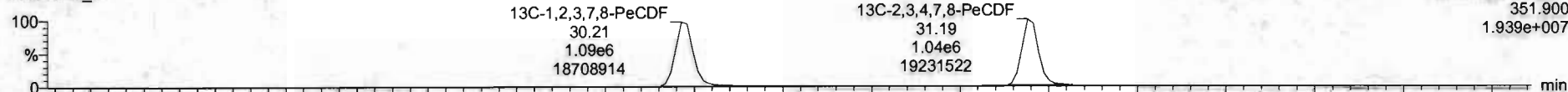


200528R2\_5

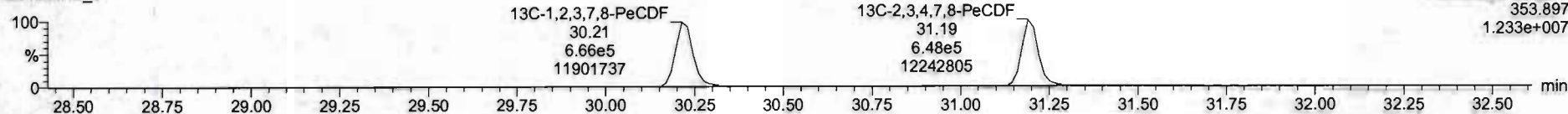


**13C-1,2,3,7,8-PeCDF**

200528R2\_5

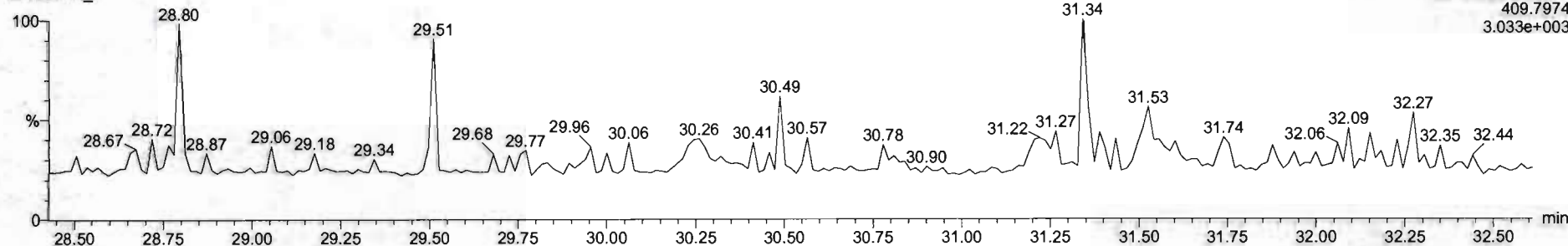


200528R2\_5



**DPE2**

200528R2\_5



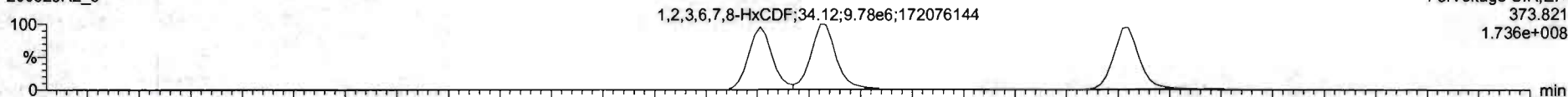
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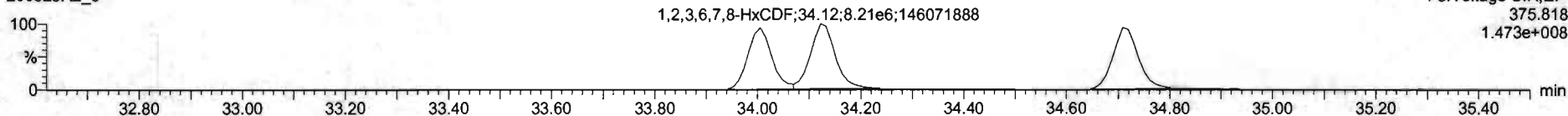
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**1,2,3,4,7,8-HxCDF**

200528R2\_5

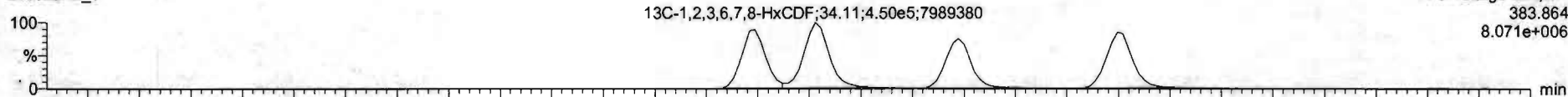


200528R2\_5

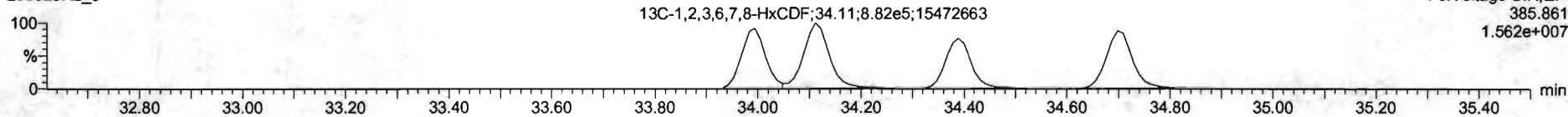


**13C-1,2,3,4,7,8-HxCDF**

200528R2\_5

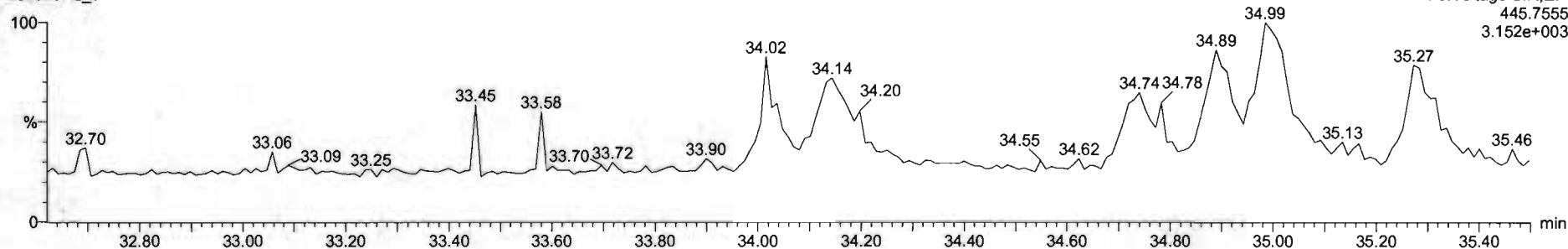


200528R2\_5



**DPE3**

200528R2\_5



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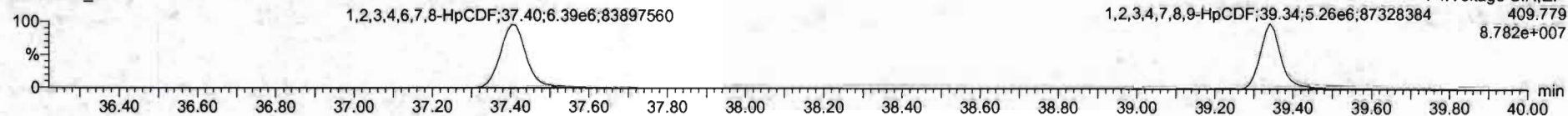
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**1,2,3,4,6,7,8-HpCDF**

200528R2\_5

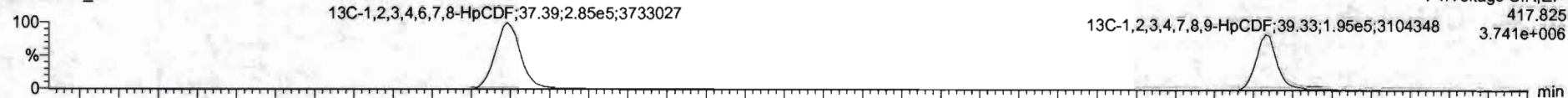


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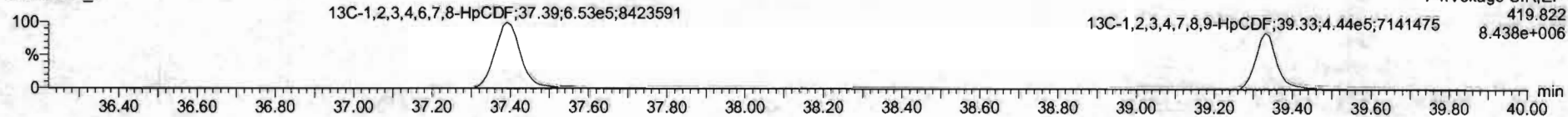


**13C-1,2,3,4,6,7,8-HpCDF**

200528R2\_5

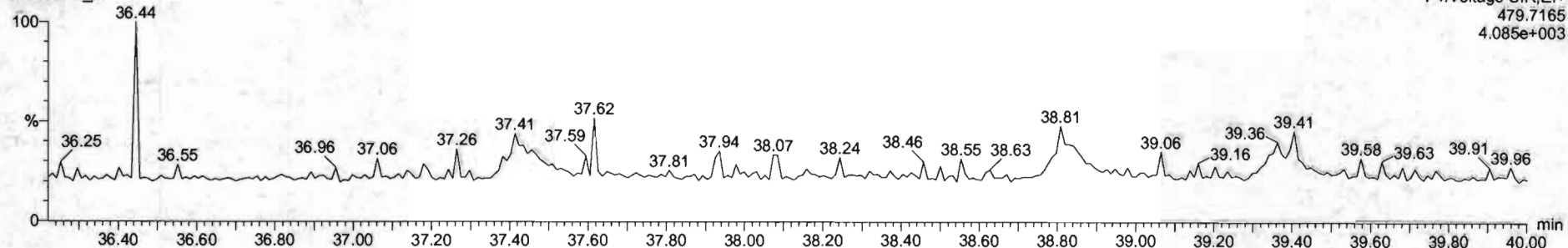


200528R2\_5



**DPE4**

200528R2\_5

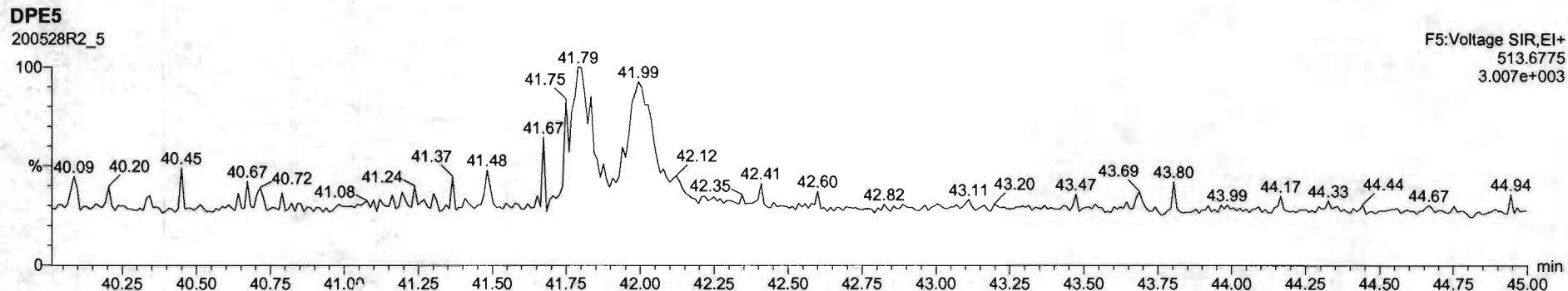
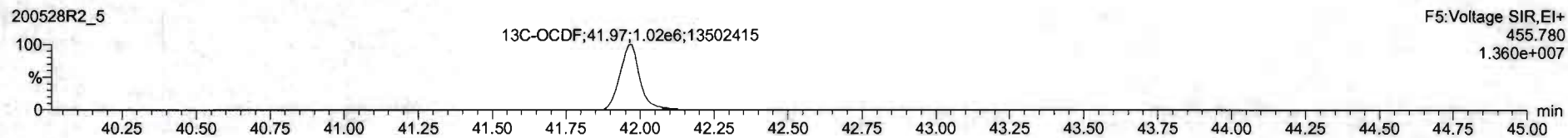
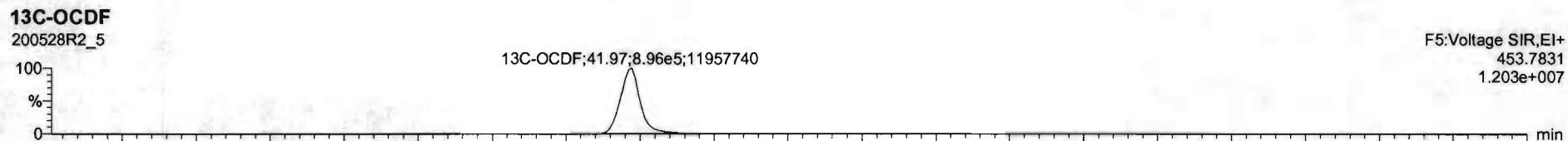
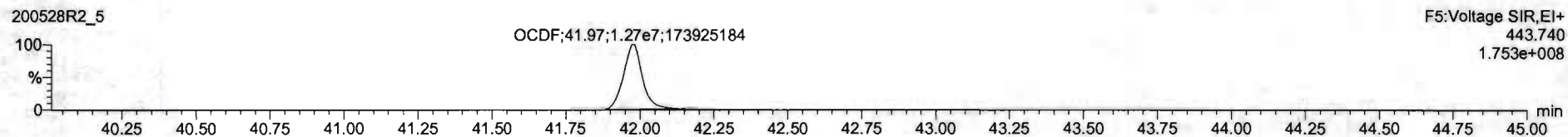
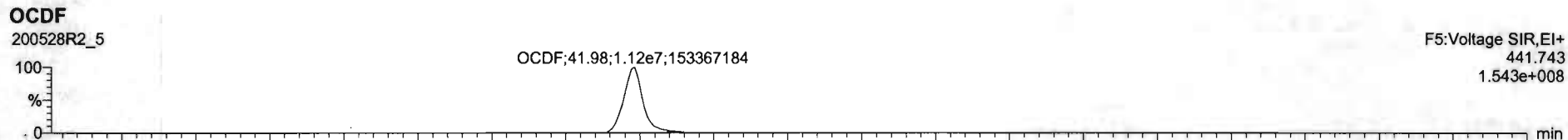




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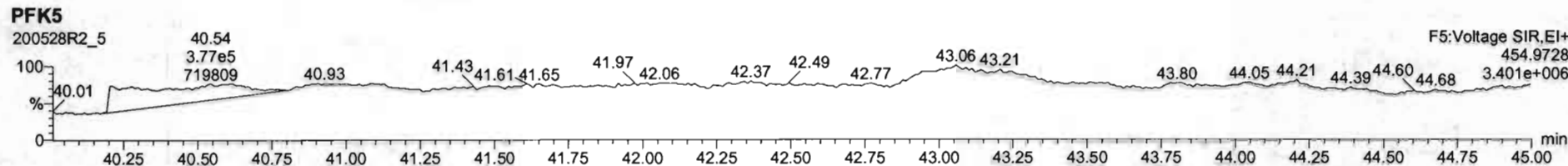
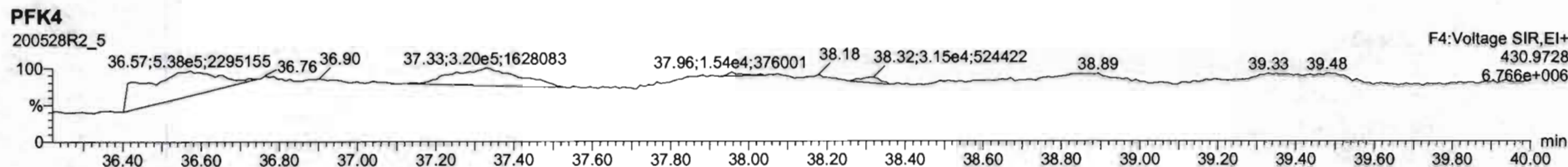
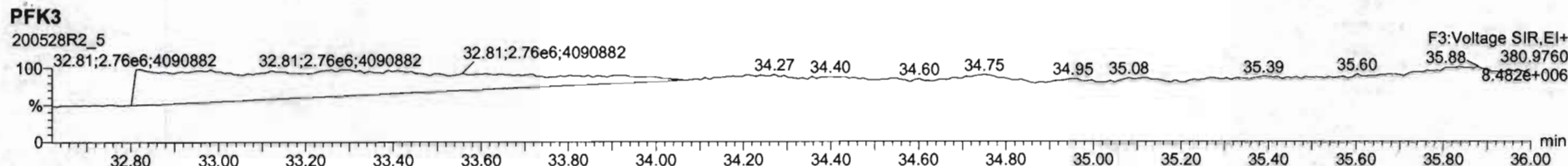
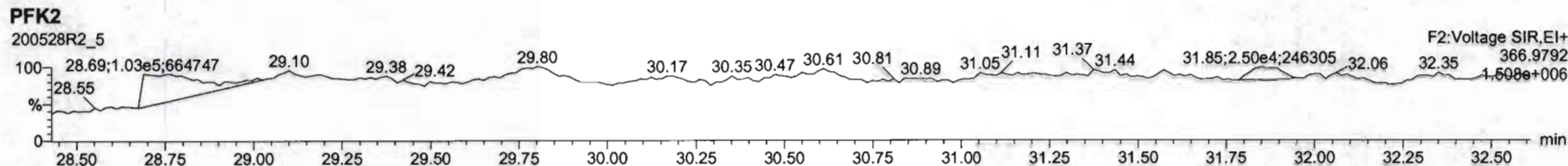
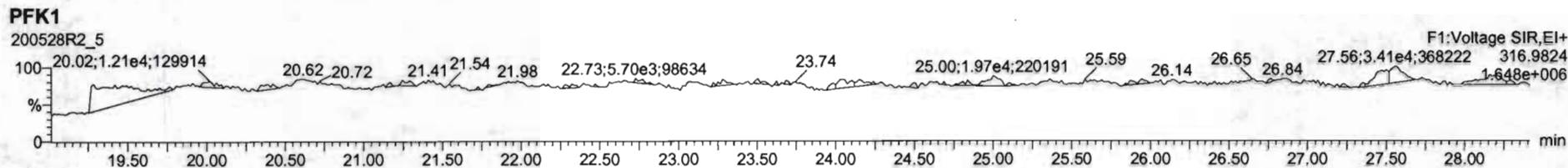
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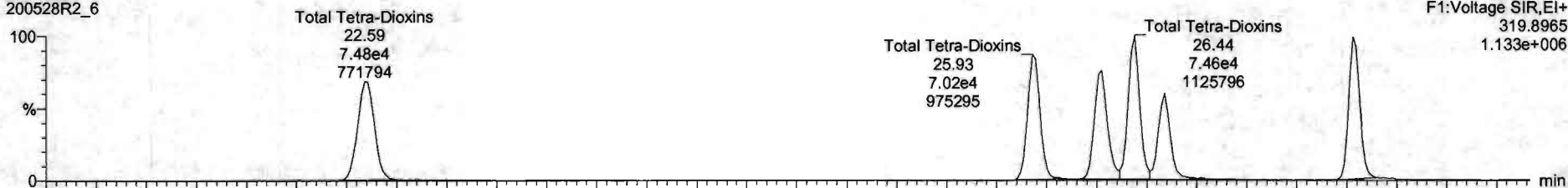
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

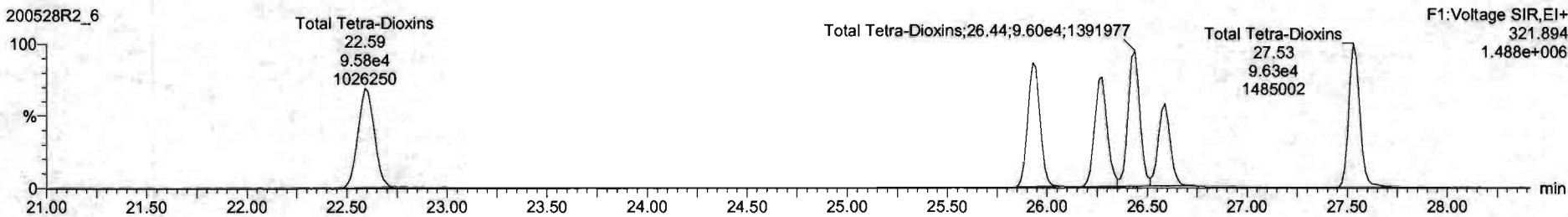
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2,3,7,8-TCDD

200528R2\_6

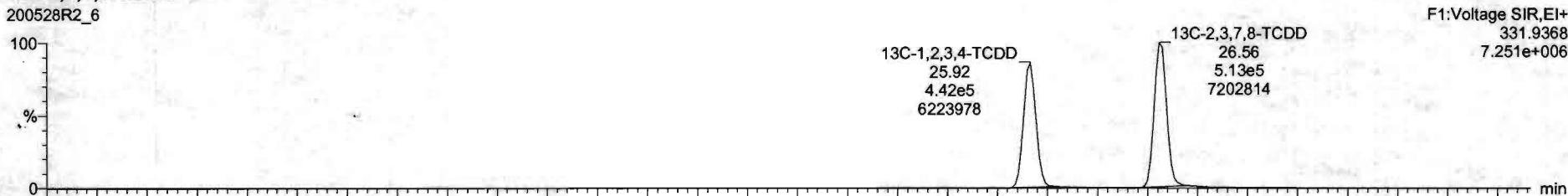


200528R2\_6

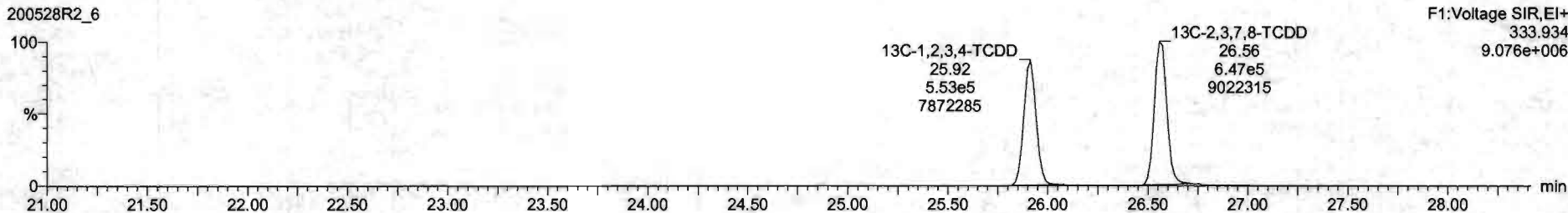


13C-2,3,7,8-TCDD

200528R2\_6



200528R2\_6



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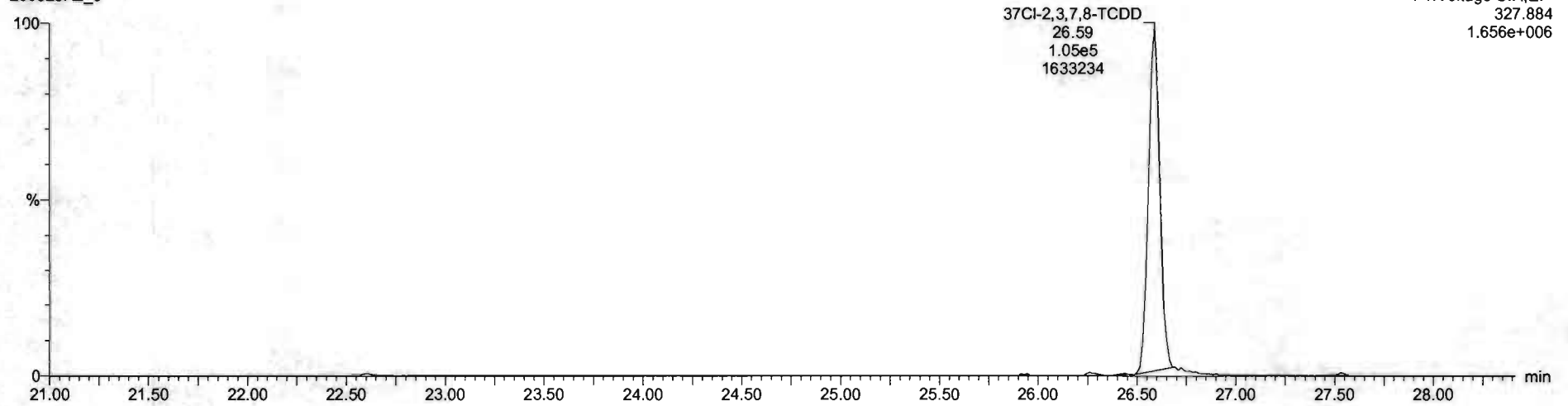
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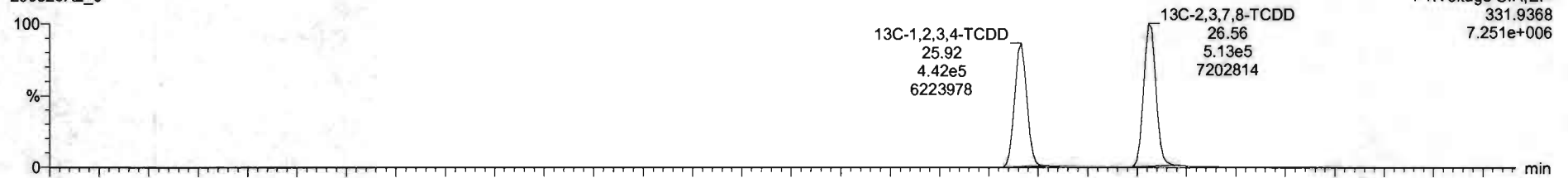
**37Cl-2,3,7,8-TCDD**

200528R2\_6

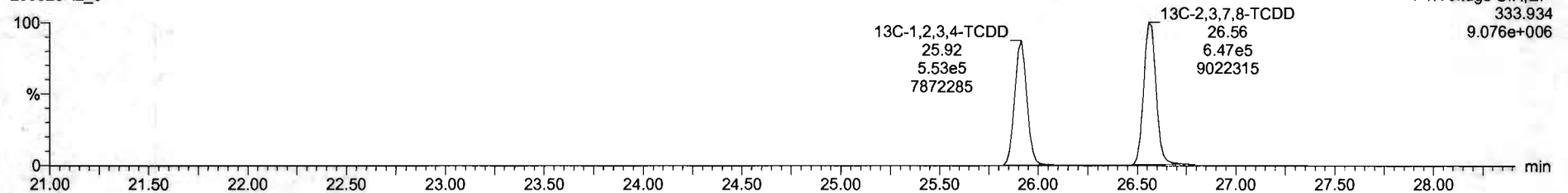


**13C-1,2,3,4-TCDD**

200528R2\_6



200528R2\_6



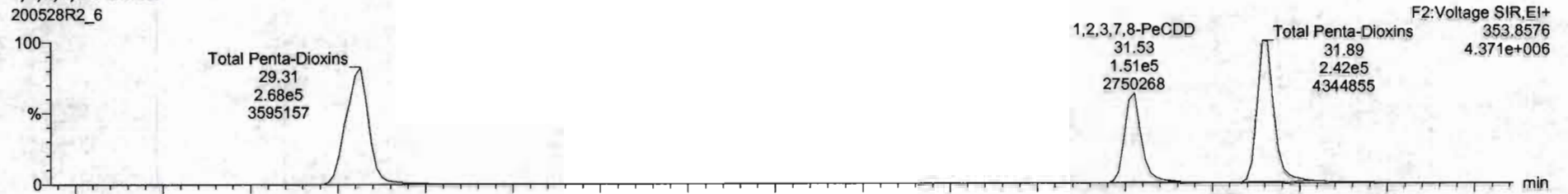
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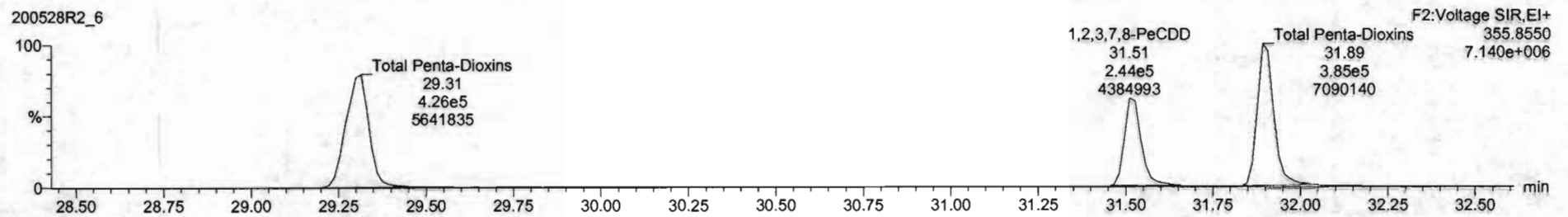
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1,2,3,7,8-PeCDD

200528R2\_6

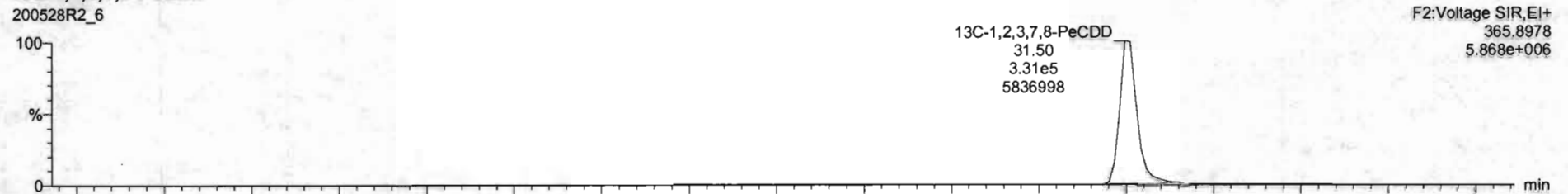


200528R2\_6

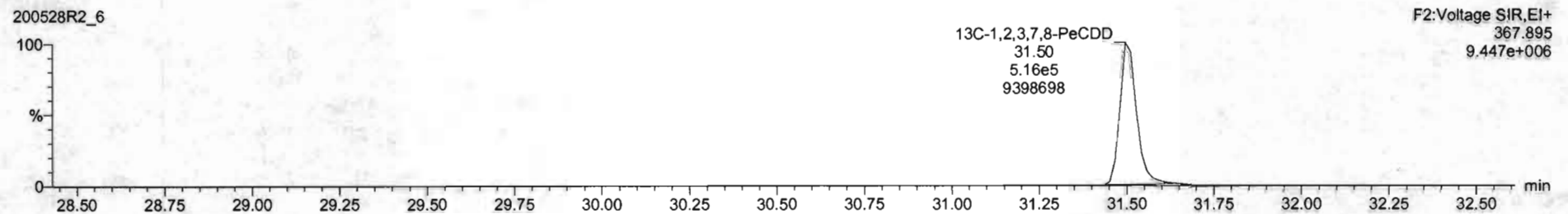


13C-1,2,3,7,8-PeCDD

200528R2\_6



200528R2\_6



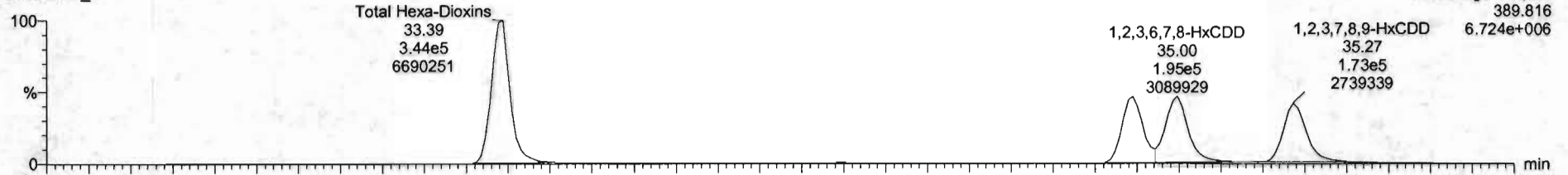
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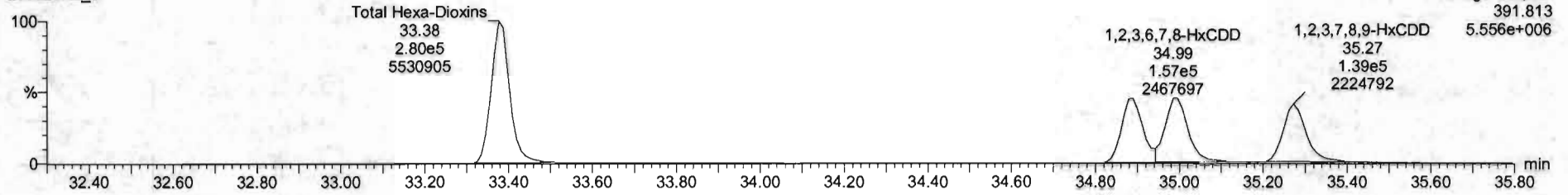
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**1,2,3,4,7,8-HxCDD**

200528R2\_6

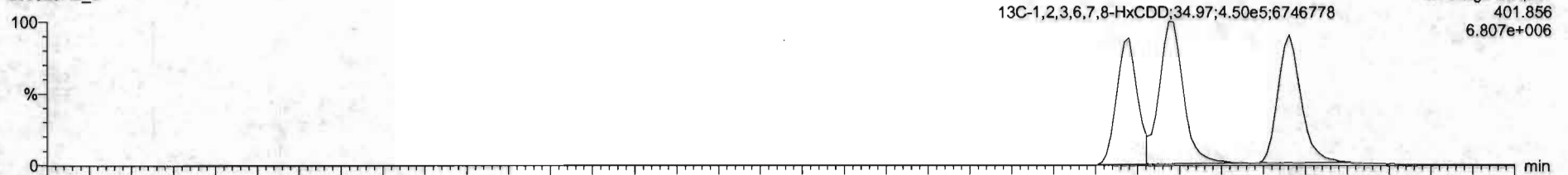


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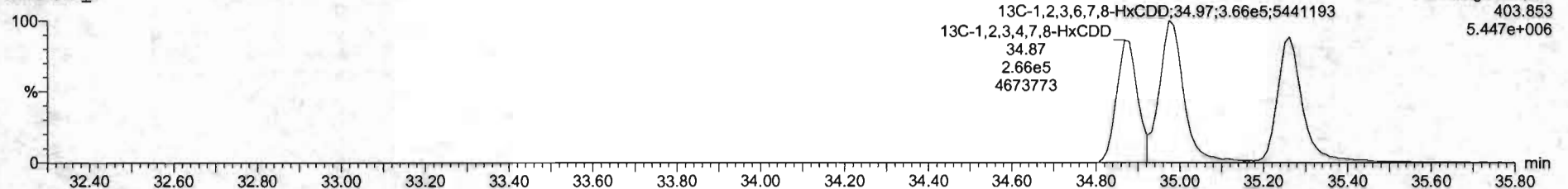


**13C-1,2,3,4,7,8-HxCDD**

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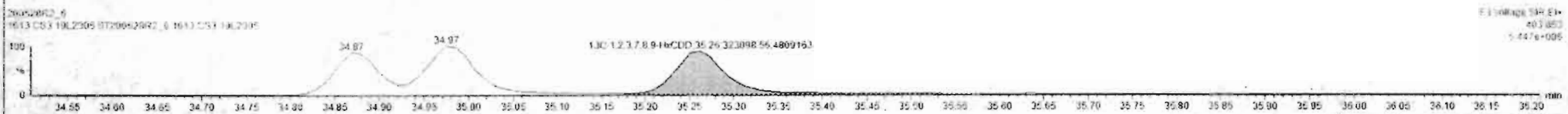
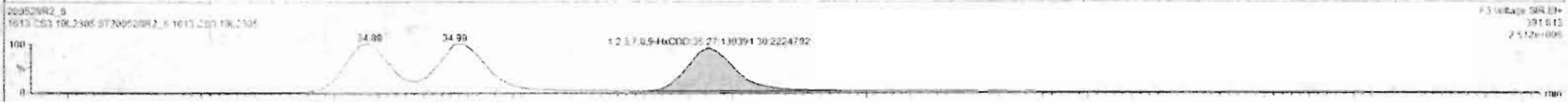
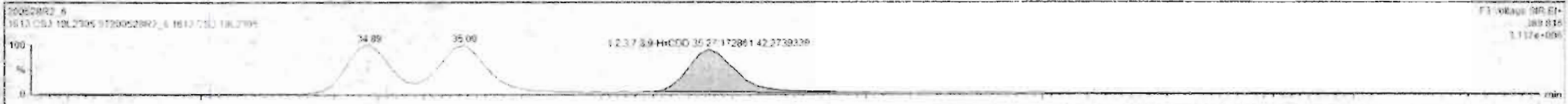


200528R2\_6





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1	2,3,7,8-TCDD	1.06e5	0.91	NO	0.6203	1.000	26.59	1.001	10.2	102	0.0674	16.2
2	1,2,3,7,8-PeCDD	3.96e5	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	0.8921	1.000	36.20	1.001	48.3	96.8	0.271	48.3
5	1,2,3,7,8,9-HxCDD	3.12e5	1.24	NO	0.8869	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6	1,2,3,4,6,7,8-HxCDD	2.29e5	1.02	NO	0.9618	1.000	30.81	1.000	51.2	102	0.209	51.2
7	CDD	4.53e5	0.38	NO	0.9136	1.000	41.78	1.000	102	102	0.206	102
8	2,3,7,8-TCDF	1.19e5	0.74	NO	0.7510	1.000	25.68	1.001	9.96	98.8	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	1,2,3,7,8,9-PeCDF	4.81e5	1.57	NO	0.9348	1.000	31.22	1.000	49.3	101	0.130	49.3
11	1,2,3,4,7,8-HxCDF	3.98e5	1.21	NO	0.9548	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	0.8822	1.000	34.13	1.000	51.8	104	0.176	51.8
13	1,2,3,4,6,7,8-HxCDF	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	1,2,3,4,6,7,8,9-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	1.0123	1.000	38.34	1.000	52.7	105	0.258	52.7
17	CDF	4.44e5	0.86	NO	0.8505	1.000	41.97	1.000	102	102	0.161	102
18	1,2,3,7,8,9-TCDF	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	34.86	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	



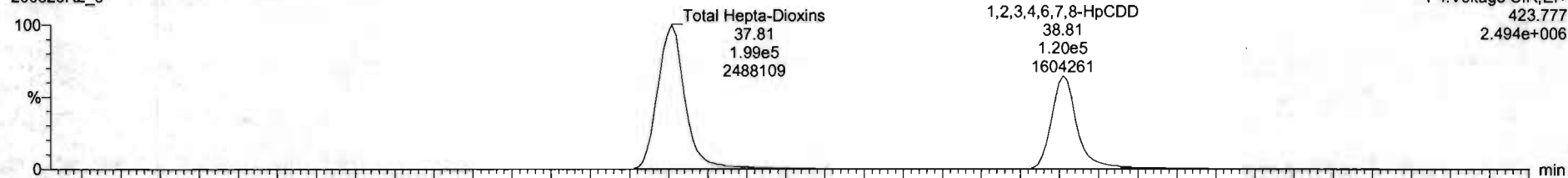
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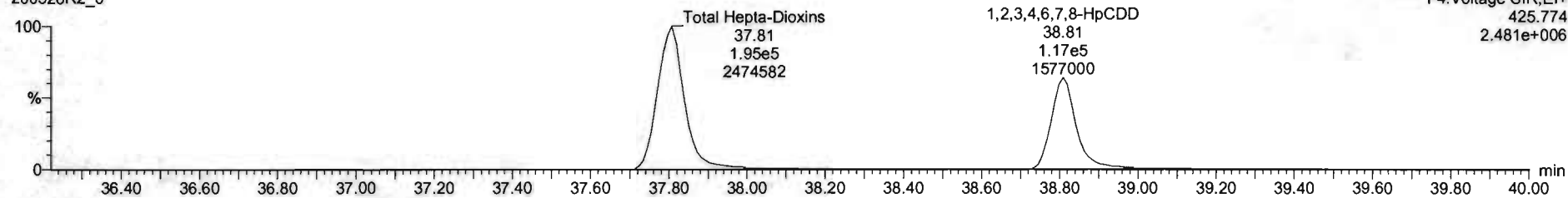
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1,2,3,4,6,7,8-HpCDD

200528R2\_6

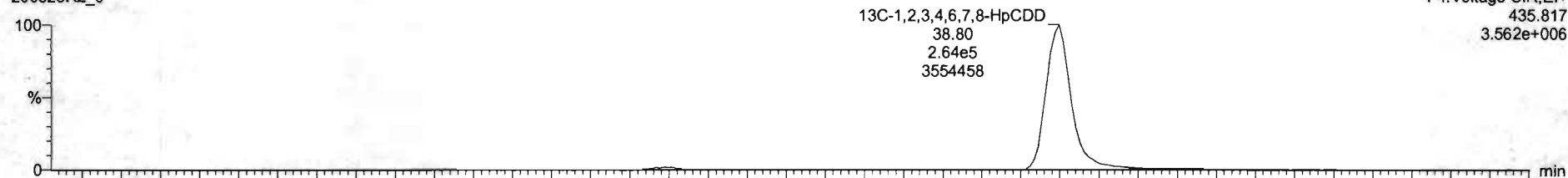


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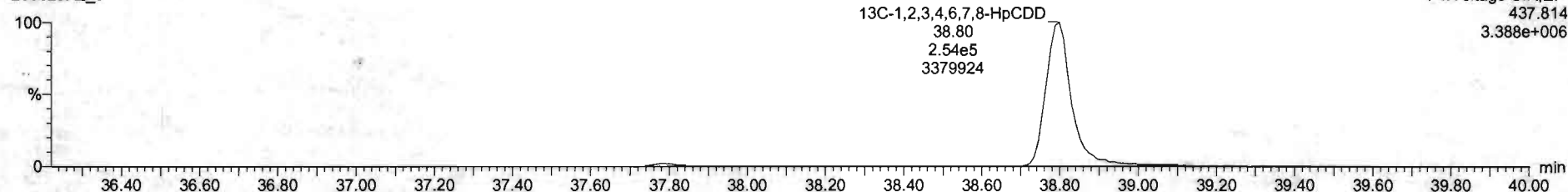


13C-1,2,3,4,6,7,8-HpCDD

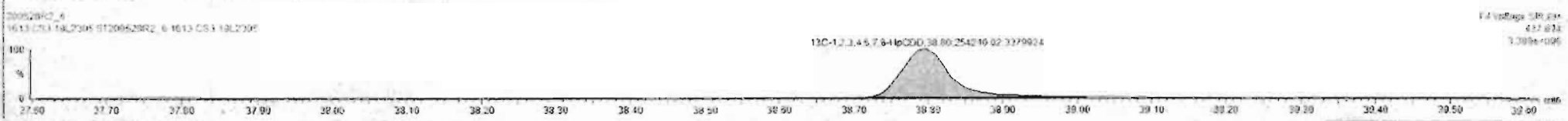
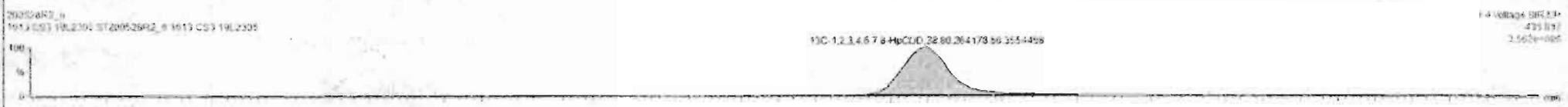
200528R2\_6



200528R2\_6



#	Name	Resp	RA	inj	RRF	wtvol	HT	RR1	Conc	%Rec	DL	EMPC
1	1,2,3,4,5-HpCDD	1.96e5	0.81	NO	0.880	1.000	26.19	1.001	10.2	102	0.0664	10.0
2	1,2,3,4,6,7,8-HpCDD	3.95e5	0.82	NO	0.900	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	0.254	49.9
6	1,2,3,4,6,7,8,9-HxCDD	3.95e5	1.03	NO	0.890	1.000	35.81	1.000	51.3	102	0.259	51.2
7	OCDF	4.53e5	0.98	NO	0.916	1.000	41.75	1.000	102	102	0.208	102
8	1,2,3,4,6,7,8,9-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	1,2,3,4,7,8,9-HpCDF	5.81e5	1.57	NO	0.934	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	0.854	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	0.880	1.000	34.13	1.000	51.9	104	0.170	51.9
13	1,2,3,4,6,7,8-HxCDF	3.08e5	1.25	NO	0.904	1.000	34.72	1.000	51.9	104	0.157	51.9
14	1,2,3,7,8,9-HxCDF	3.98e5	1.22	NO	0.870	1.000	35.03	1.000	51.1	102	0.209	51.1
15	1,2,3,4,6,7,8,9-HpCDF	2.54e5	0.98	NO	0.874	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	38.14	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	1.026	101	101	0.0980	
19	13C-1,2,3,4,7,8-HpCDD	3.48e5	0.84	NO	0.940	1.000	33.50	1.215	100	100	0.235	
20	13C-1,2,3,4,7,8-HpCDD	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-HpCDD	8.15e5	1.23	NO	1.040	1.000	34.97	1.017	102	102	0.144	



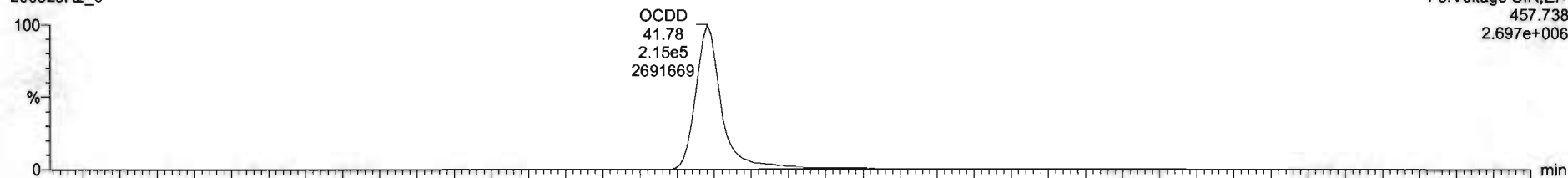
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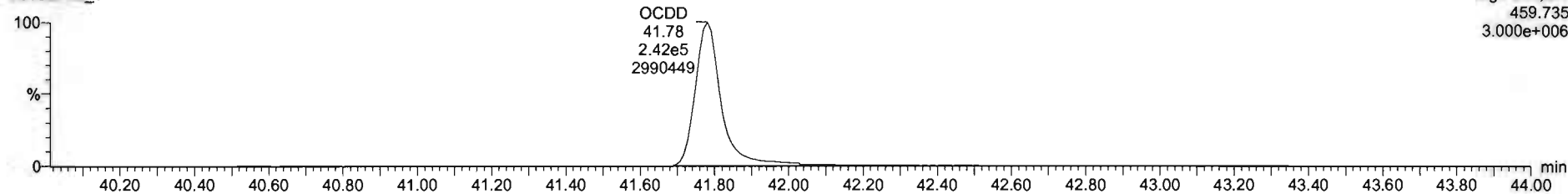
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**OCDD**

200528R2\_6

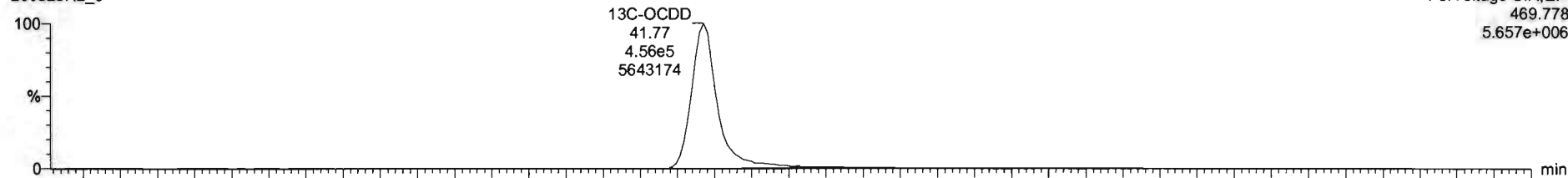


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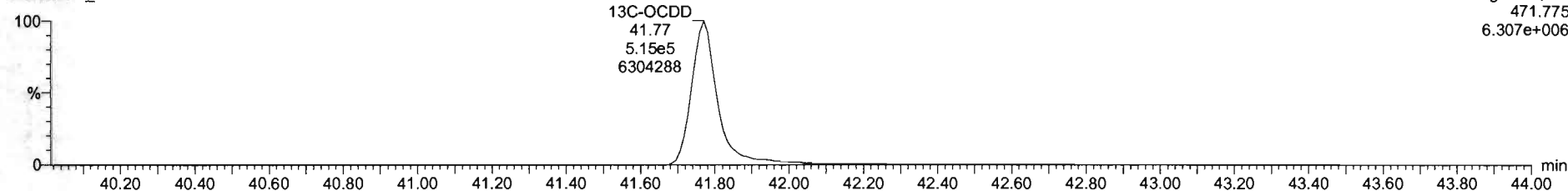


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200528R2\_6

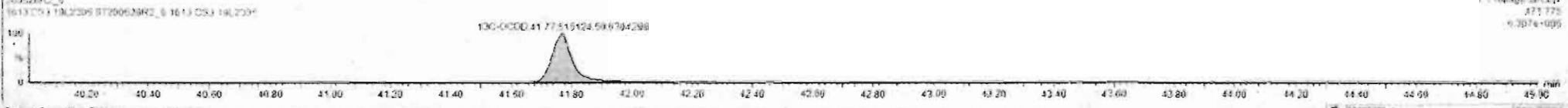
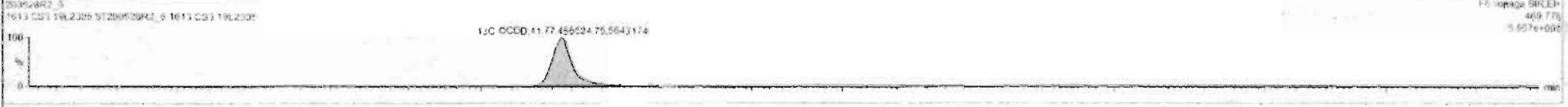
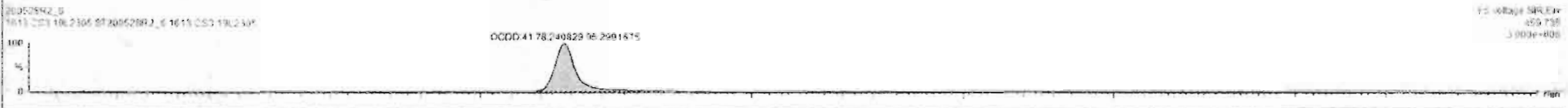
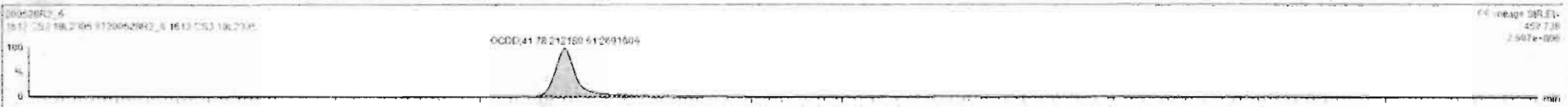


200528R2\_6





#	Name	Resp	RA	Qty	RHF	Wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.96e6	0.21	NO	0.8843	1.000	26.19	1.001	10.2	102	0.0664	10.2
2	1,2,3,7,8-PeCDD	3.96e6	0.22	NO	0.9091	1.000	31.92	1.001	51.3	103	0.195	51.3
3	1,2,3,4,7,8-HxCDD	3.25e6	1.25	NO	1.0334	1.000	34.89	1.000	52.1	104	0.228	52.1
4	1,2,3,6,7,8-HxCDD	3.51e6	1.24	NO	0.8027	1.000	35.30	1.001	46.3	96.6	0.253	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	35.81	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-HpCDF	2.06e6	0.98	NO	1.0128	1.000	39.34	1.000	52.7	105	0.253	52.7
17	OCDF	4.44e6	0.80	NO	0.8045	1.000	41.87	1.000	102	102	0.161	102
18	13C-2,3,7,8-TCDD	1.16e6	0.79	NO	1.1563	1.000	26.96	1.025	101	101	0.0900	
19	13C-1,2,3,7,8-PeCDD	8.46e6	0.84	NO	0.8490	1.000	31.98	1.215	100	100	0.275	
20	13C-1,2,3,4,7,8-HxCDD	6.04e6	1.27	NO	0.7750	1.000	34.88	1.014	96.9	96.9	0.198	
21	13C-1,2,3,6,7,8-HxCDD	6.15e6	1.23	NO	1.0167	1.000	34.97	1.017	102	102	0.144	



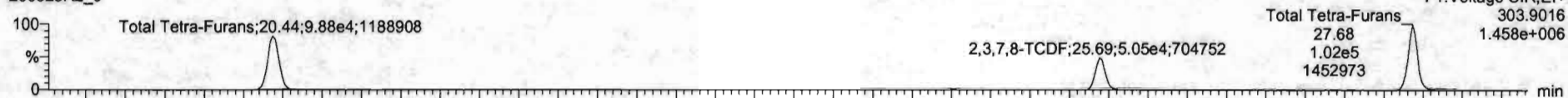
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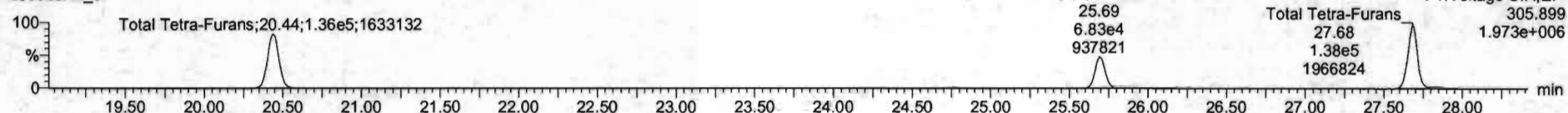
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**2,3,7,8-TCDF**

200528R2\_6

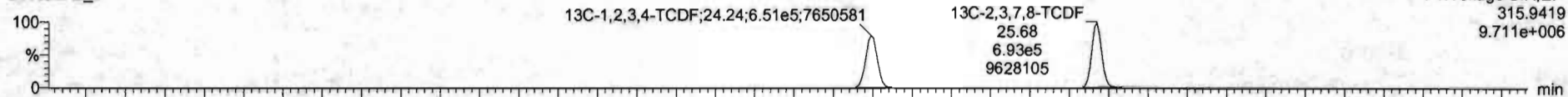


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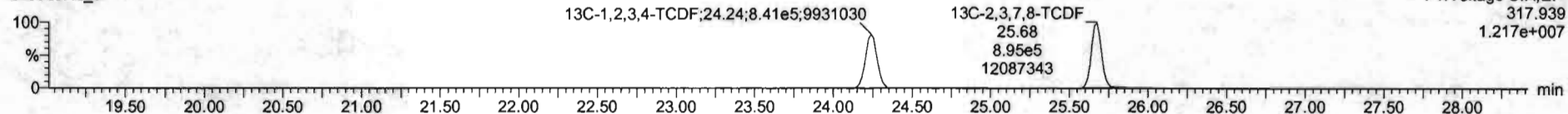


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200528R2\_6

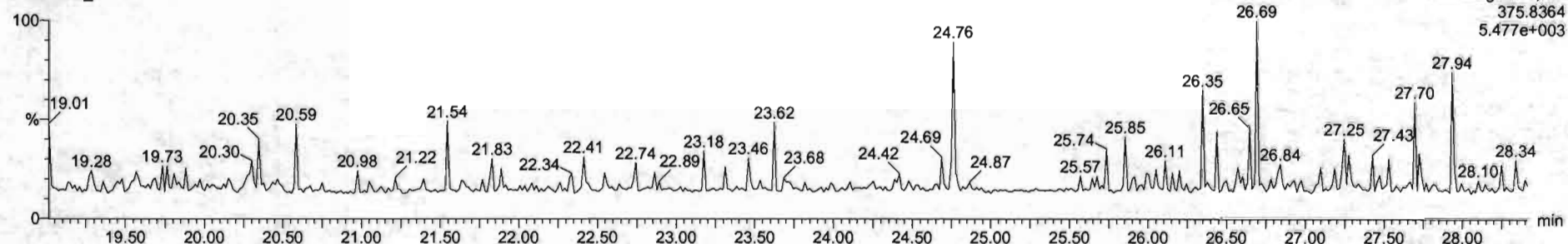


200528R2\_6



**DPE1**

200528R2\_6



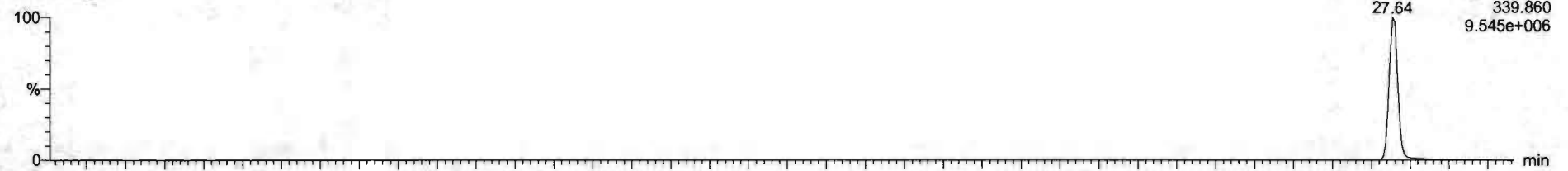
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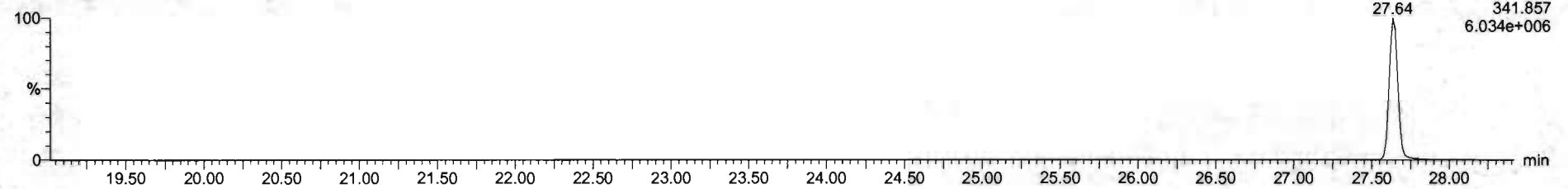
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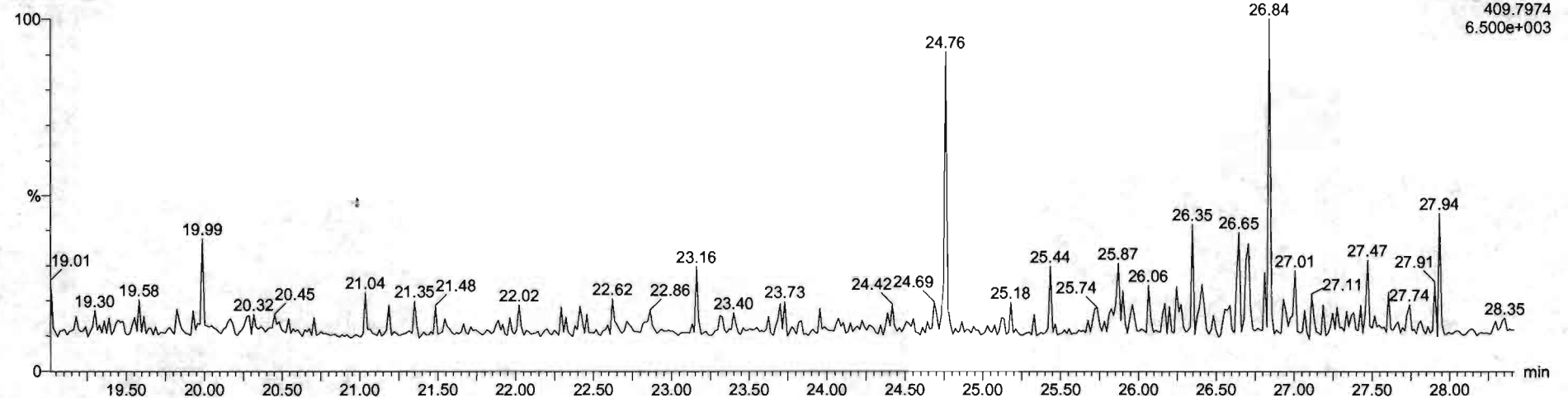


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DPE6

200528R2\_6



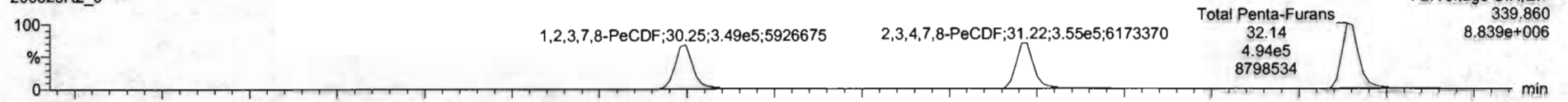
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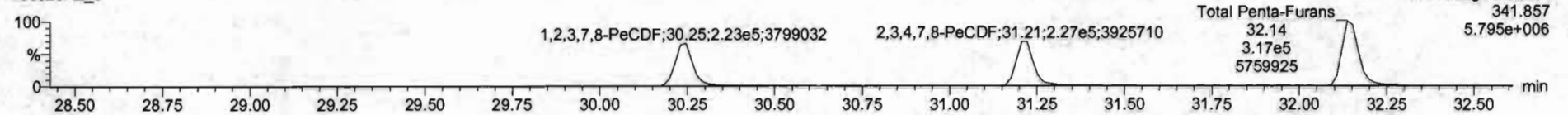
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**1,2,3,7,8-PeCDF**

200528R2\_6

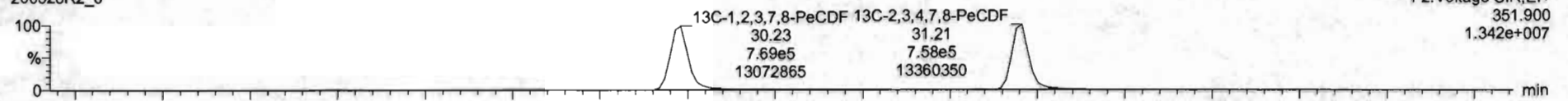


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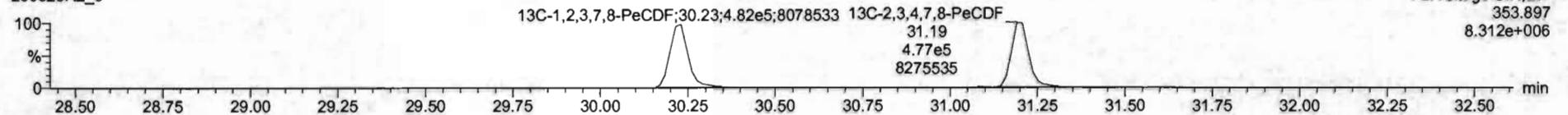


**13C-1,2,3,7,8-PeCDF**

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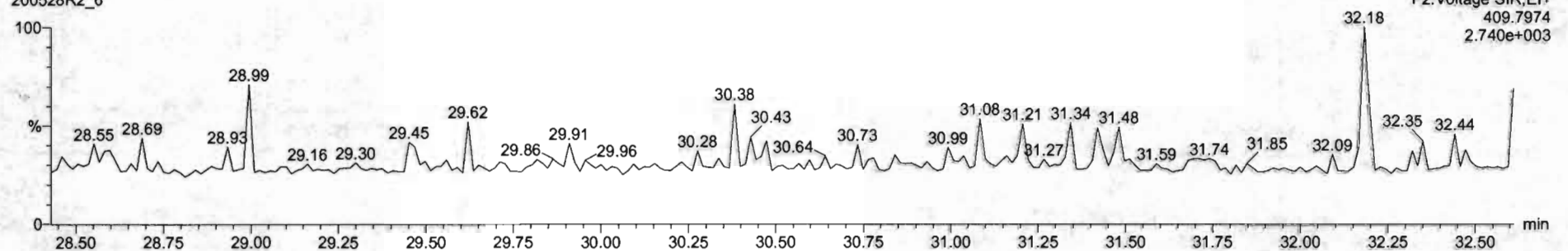


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**DPE2**

200528R2\_6



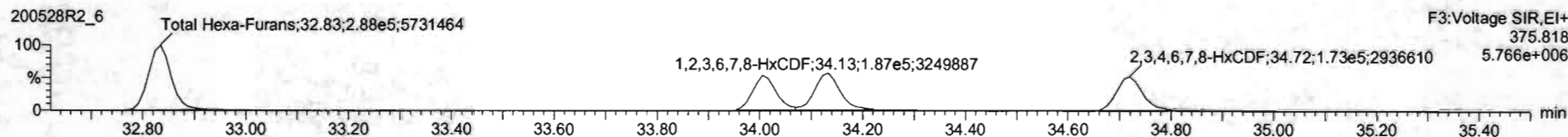
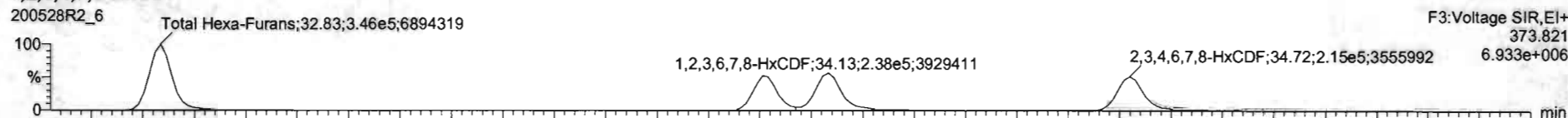


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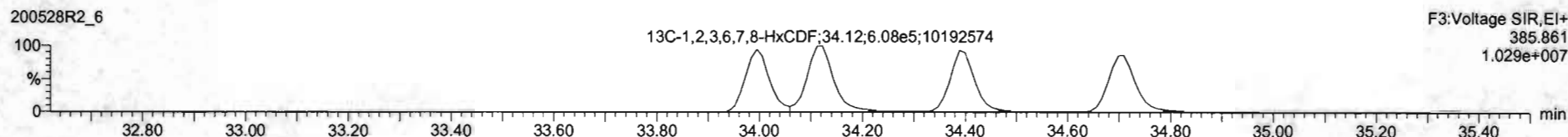
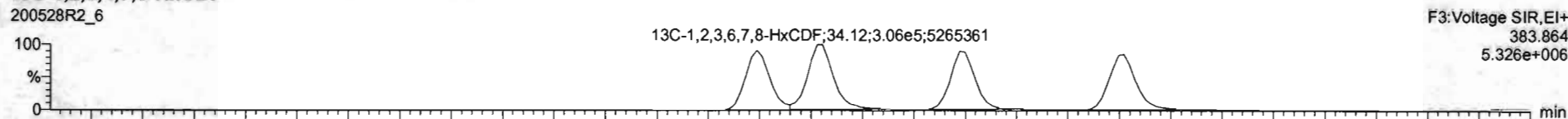
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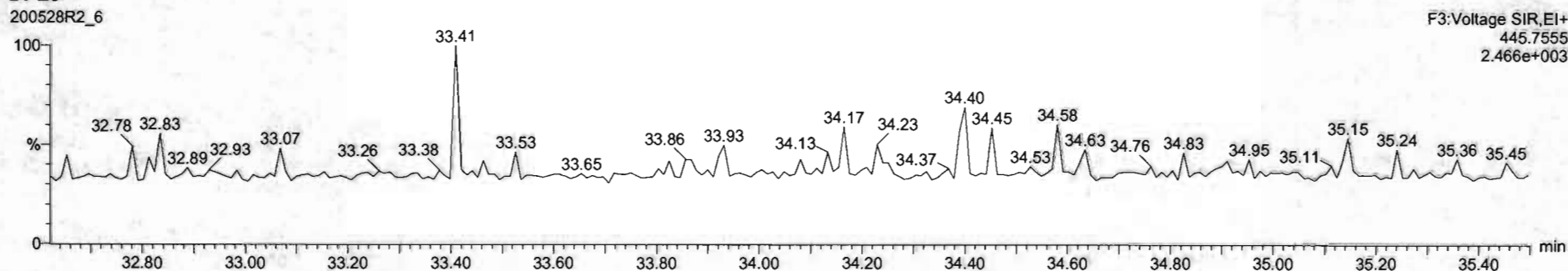
**1,2,3,4,7,8-HxCDF**



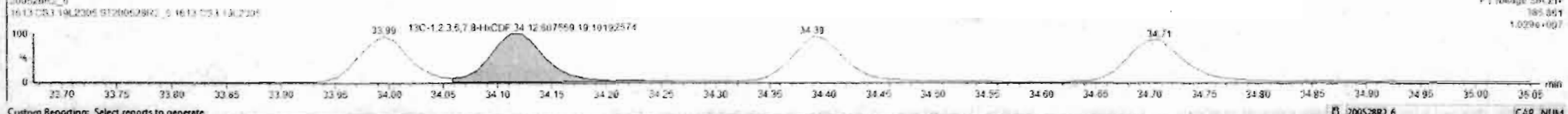
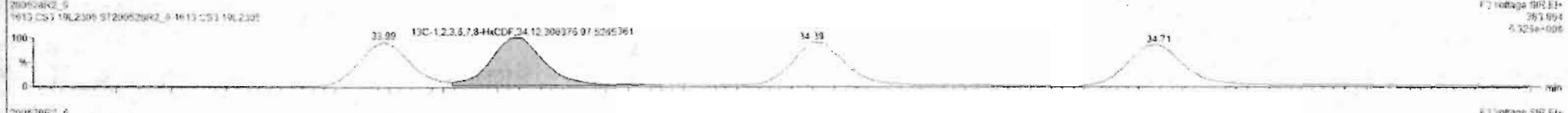
**13C-1,2,3,4,7,8-HxCDF**



**DPE3**



Name	Resp	RA	WV	RRF	WtVal	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.06e5	0.81	NO	0.6082	1.000	26.55	1.001	102	102	0.0664	10.2
2 1,2,3,7,8-PeCDD	1.56e5	0.82	NO	0.6081	1.000	31.53	1.001	51.3	103	0.194	51.3
3 1,2,3,4,7,8-HxCDD	0.25e5	1.23	NO	1.0334	1.000	34.89	1.000	52.1	104	0.220	52.1
4 1,2,3,6,7,8-HxCDD	0.31e5	1.24	NO	0.8923	1.000	25.00	1.001	48.3	96.6	0.231	48.3
5 1,2,3,7,8,9-HxCDD	0.12e5	1.24	NO	0.9269	1.000	35.27	1.000	49.9	99.8	0.264	49.9
6 1,2,3,4,6,7,8-HpCDD	0.26e5	1.01	NO	0.8838	1.000	26.61	1.000	51.2	102	0.209	51.2
7 OCDD	1.53e5	0.86	NO	0.5136	1.000	41.78	1.000	102	102	0.290	102
8 2,3,7,8-TCDF	1.19e5	0.74	NO	0.7510	1.000	25.69	1.001	9.90	99.8	0.0613	9.90
9 1,2,3,7,8-PeCDF	0.72e5	1.57	NO	0.8925	1.000	30.25	1.000	51.2	102	0.139	51.2
10 1,2,3,4,7,8-HxCDF	0.91e5	1.57	NO	0.9248	1.000	31.22	1.000	50.3	101	0.130	50.3
11 1,2,3,4,7,8-HxCDF	0.56e5	1.21	NO	0.8845	1.000	34.01	1.000	51.1	102	0.191	51.1
12 1,2,3,6,7,8-HxCDF	4.22e5	1.25	NO	0.8092	1.000	34.13	1.000	51.9	104	0.170	51.9
13 2,3,4,6,7,8-HxCDF	1.58e5	1.25	NO	0.9241	1.000	34.72	1.000	51.9	104	0.197	51.9
14 1,2,3,7,8,9-HxCDF	2.98e5	1.22	NO	0.8707	1.000	35.83	1.000	51.1	102	0.201	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	0.90	NO	1.0100	1.000	39.34	1.000	52.7	105	0.268	52.7
17 OCDF	1.44e5	0.85	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	1.1582	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-1,2,3,7,8-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	



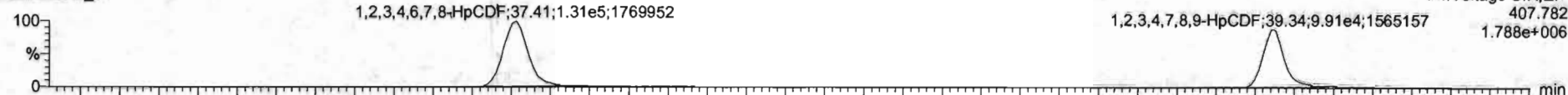
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

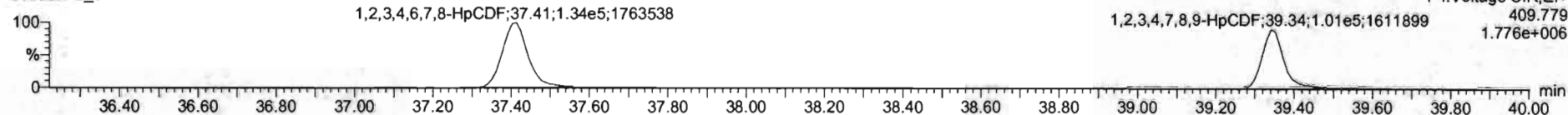
Name: 200528R2\_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2\_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200528R2\_6

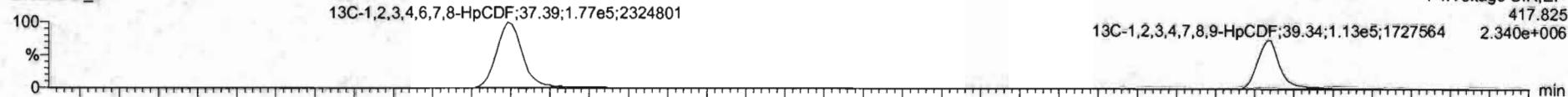


200528R2\_6

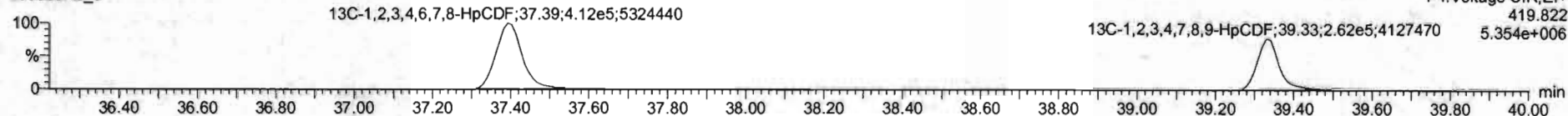


**13C-1,2,3,4,6,7,8-HpCDF**

200528R2\_6

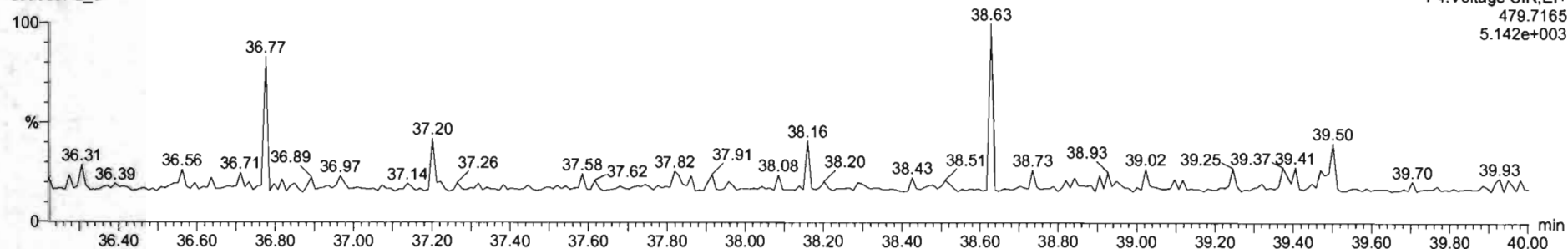


200528R2\_6



**DPE4**

200528R2\_6

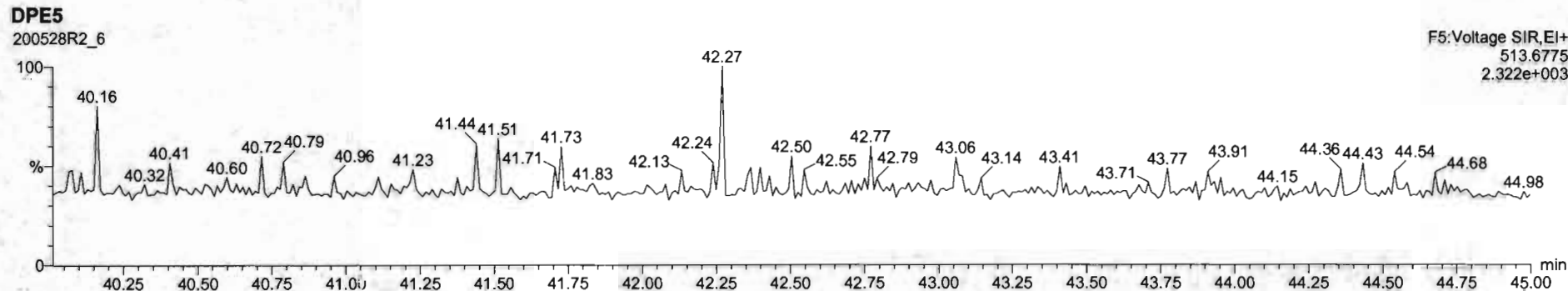
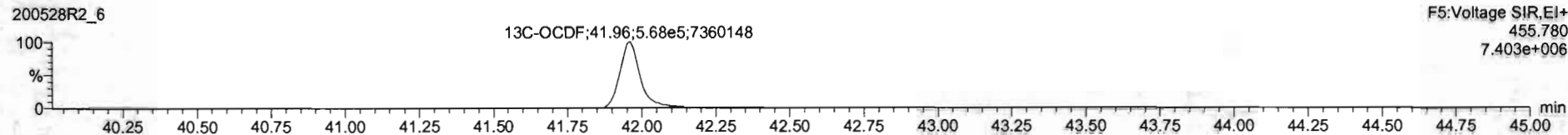
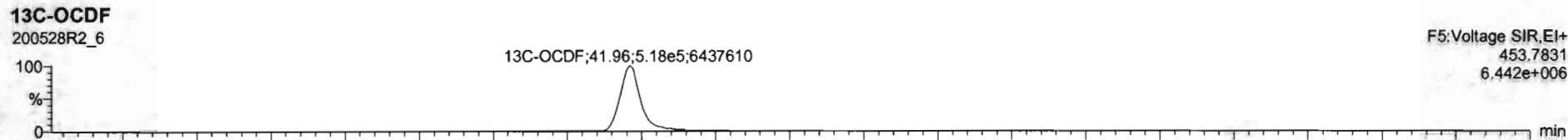
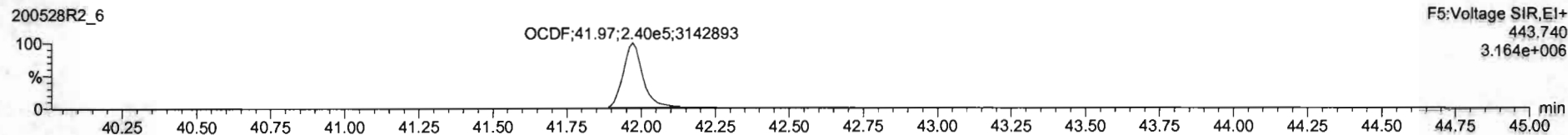
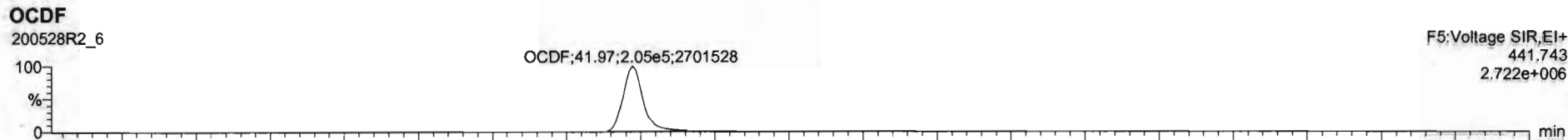


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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time

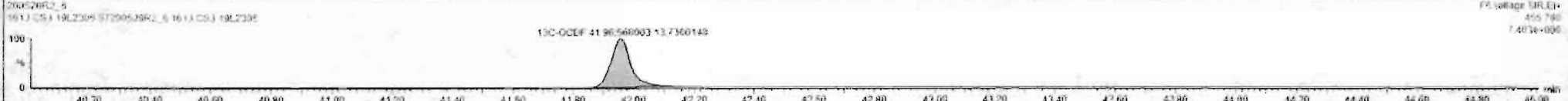
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2\_6, Date: 28-May-2020, Time: 15:58:32, ID: ST200528R2\_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305





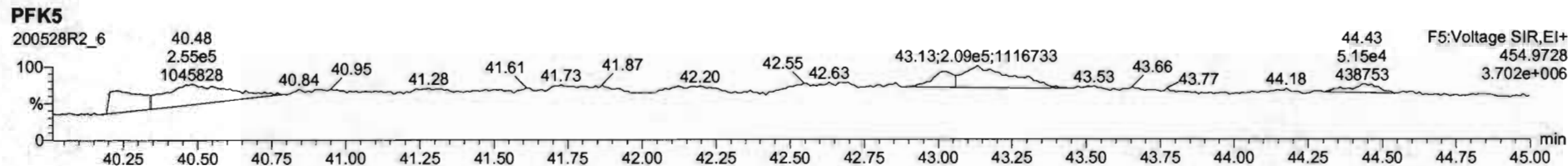
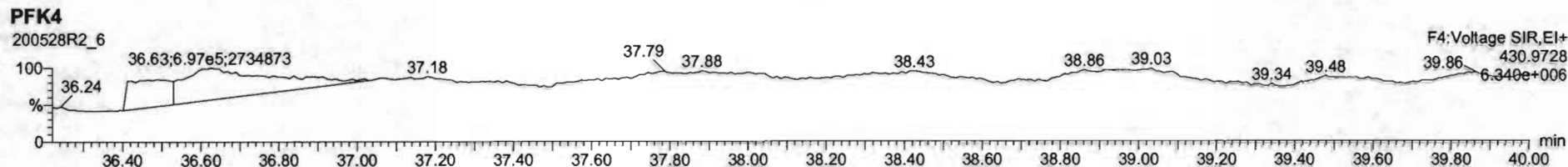
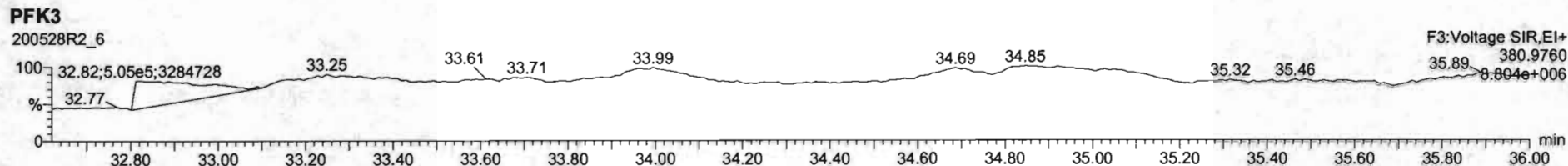
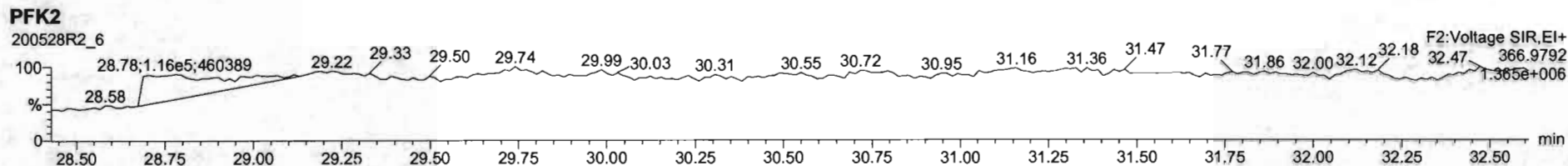
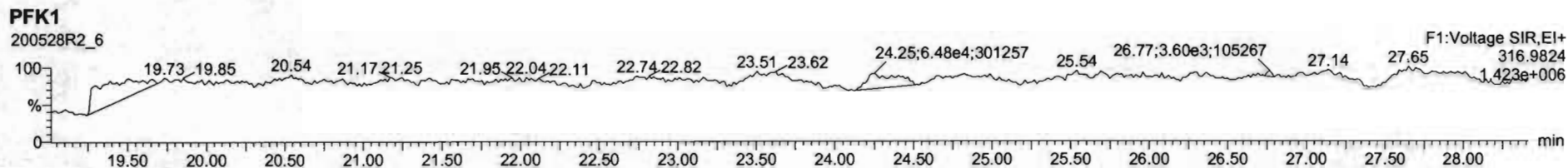
#	Name	Resp	RA	Qty	RRF	Wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.06e5	0.81	NO	0.8503	1.000	26.19	1.001	10.2	102	0.0664	10.2
2	1,2,3,7,8-PeCDD	3.56e5	0.62	NO	0.8091	1.000	31.53	1.001	51.3	103	0.195	51.3
3	1,2,3,4,7,8-HxCDD	0.25e5	1.23	NO	1.0334	1.000	34.99	1.000	52.1	104	0.228	52.1
4	1,2,3,6,7,8-HxCDD	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	1.06e5	1.01	NO	1.9839	1.000	36.81	1.000	77.2	102	0.109	77.2
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	3.72e5	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	51.1	103	0.191	51.1
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	51.1	102	0.291	51.1
15	1,2,3,4,6,7,8-HpCDF	2.64e5	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.221	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	1.8187	1.000	34.97	1.017	102	102	0.144	



Dataset: Untitled

Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time  
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2\_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2\_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305



Dataset: U:\VG12.PRO\Results\200528R2\200528R2-8.qld

Last Altered: Friday, May 29, 2020 7:44:05 AM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:44:35 AM Pacific Daylight Time

*GRB 05/29/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17

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

Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.24e5	0.78	NO	0.888	1.000	26.575	26.57	1.001	1.001	11.080	111	0.0262	11.1
2	2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.908	1.000	31.518	31.51	1.001	1.000	56.429	113	0.0622	56.4
3	3 1,2,3,4,7,8-HxCDD	3.86e5	1.22	NO	1.03	1.000	34.879	34.88	1.000	1.000	58.033	116	0.101	58.0
4	4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.892	1.000	34.975	34.99	1.000	1.000	57.963	116	0.105	58.0
5	5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.887	1.000	35.262	35.26	1.000	1.000	57.107	114	0.119	57.1
6	6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.864	1.000	38.799	38.80	1.000	1.000	55.832	112	0.168	55.8
7	7 OCDD	5.15e5	0.88	NO	0.914	1.000	41.759	41.78	1.000	1.001	111.26	111	0.171	111
8	8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.751	1.000	25.671	25.68	1.001	1.001	11.386	114	0.0333	11.4
9	9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.893	1.000	30.236	30.23	1.001	1.001	55.728	111	0.0942	55.7
10	10 2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.935	1.000	31.222	31.21	1.001	1.000	60.229	120	0.0851	60.2
11	11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.884	1.000	33.984	33.99	1.000	1.000	55.936	112	0.113	55.9
12	12 1,2,3,6,7,8-HxCDF	5.08e5	1.18	NO	0.889	1.000	34.122	34.12	1.000	1.000	56.761	114	0.107	56.8
13	13 2,3,4,6,7,8-HxCDF	4.49e5	1.21	NO	0.934	1.000	34.732	34.71	1.001	1.000	56.468	113	0.117	56.5
14	14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.871	1.000	35.614	35.62	1.000	1.000	55.299	111	0.174	55.3
15	15 1,2,3,4,6,7,8-HpCDF	3.01e5	1.01	NO	0.873	1.000	37.430	37.40	1.001	1.000	54.506	109	0.182	54.5
16	16 1,2,3,4,7,8,9-HpCDF	2.38e5	1.00	NO	1.01	1.000	39.331	39.34	1.000	1.000	57.740	115	0.198	57.7
17	17 OCDF	5.22e5	0.87	NO	0.806	1.000	41.951	41.96	1.000	1.000	113.77	114	0.201	114
18	18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.16	1.000	26.584	26.54	1.026	1.025	91.859	91.9	0.0837	
19	19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.849	1.000	31.784	31.50	1.227	1.216	88.503	88.5	0.117	
20	20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.779	1.000	34.874	34.87	1.014	1.014	88.587	88.6	0.180	
21	21 13C-1,2,3,6,7,8-HxCDD	8.41e5	1.26	NO	1.02	1.000	34.987	34.97	1.017	1.017	88.739	88.7	0.138	
22	22 13C-1,2,3,7,8,9-HxCDD	7.39e5	1.24	NO	0.903	1.000	35.259	35.25	1.025	1.025	87.785	87.8	0.155	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.53e5	1.04	NO	0.689	1.000	38.787	38.79	1.128	1.128	86.116	86.1	0.160	
24	24 13C-OCDD	1.01e6	0.89	NO	0.652	1.000	41.813	41.76	1.216	1.214	166.64	83.3	0.212	
25	25 13C-2,3,7,8-TCDF	1.73e6	0.77	NO	1.06	1.000	25.623	25.65	0.989	0.990	90.815	90.8	0.116	
26	26 13C-1,2,3,7,8-PeCDF	1.35e6	1.61	NO	0.838	1.000	30.163	30.21	1.165	1.167	89.693	89.7	0.169	
27	27 13C-2,3,4,7,8-PeCDF	1.33e6	1.57	NO	0.817	1.000	31.119	31.19	1.202	1.204	90.666	90.7	0.174	
28	28 13C-1,2,3,4,7,8-HxCDF	8.51e5	0.51	NO	1.01	1.000	34.004	33.98	0.989	0.988	90.589	90.6	0.222	
29	29 13C-1,2,3,6,7,8-HxCDF	1.01e6	0.51	NO	1.17	1.000	34.127	34.11	0.992	0.992	92.509	92.5	0.191	
30	30 13C-2,3,4,6,7,8-HxCDF	8.50e5	0.51	NO	1.02	1.000	34.702	34.70	1.009	1.009	89.276	89.3	0.219	
31	31 13C-1,2,3,7,8,9-HxCDF	7.33e5	0.50	NO	0.860	1.000	35.603	35.61	1.035	1.036	91.476	91.5	0.260	



Dataset: U:\VG12.PRO\Results\200528R2\200528R2-8.qld

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

Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.33e5	0.43	NO	0.774	1.000	37.353	37.39	1.086	1.087	87.682	87.7	0.235	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.07e5	0.42	NO	0.521	1.000	39.386	39.33	1.145	1.144	83.716	83.7	0.350	
34	34 13C-OCDF	1.14e6	0.88	NO	0.746	1.000	41.985	41.95	1.221	1.220	163.83	81.9	0.148	
35	35 37Cl-2,3,7,8-TCDD	1.28e5			1.04	1.000	26.615	26.57	1.028	1.026	10.416	104	0.0149	
36	36 13C-1,2,3,4-TCDD	1.19e6	0.81	NO	1.00	1.000	26.000	25.90	1.000	1.000	100.00	100	0.0967	
37	37 13C-1,2,3,4-TCDF	1.80e6	0.79	NO	1.00	1.000	24.360	24.22	1.000	1.000	100.00	100	0.123	
38	38 13C-1,2,3,4,6,9-HxCDF	9.32e5	0.51	NO	1.00	1.000	34.420	34.39	1.000	1.000	100.00	100	0.223	

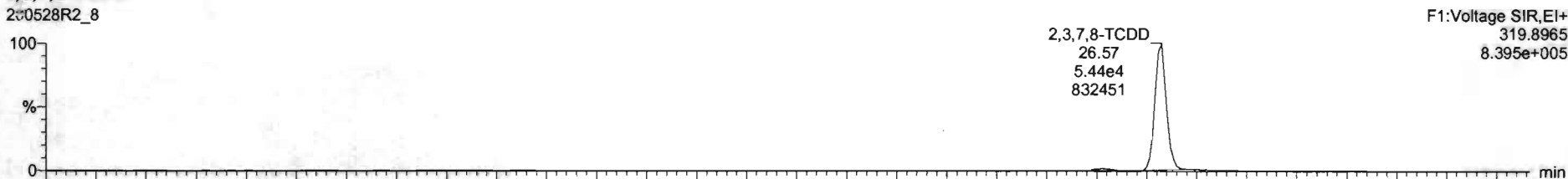
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Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

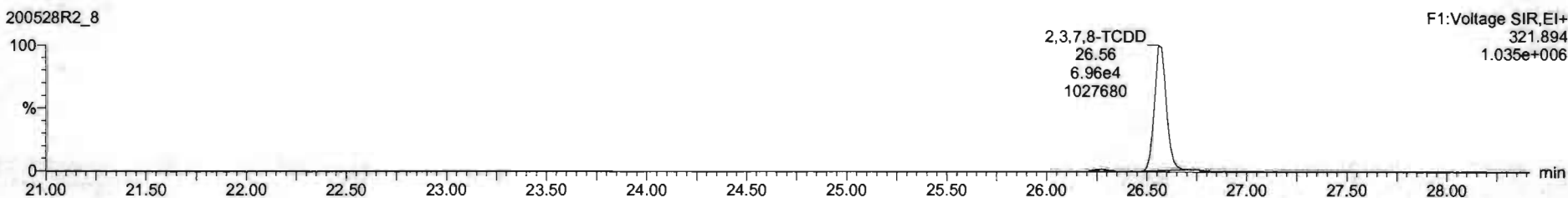
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Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

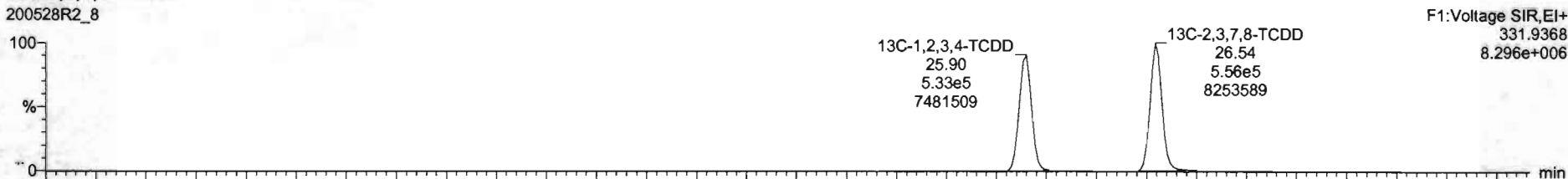
**2,3,7,8-TCDD**  
200528R2\_8



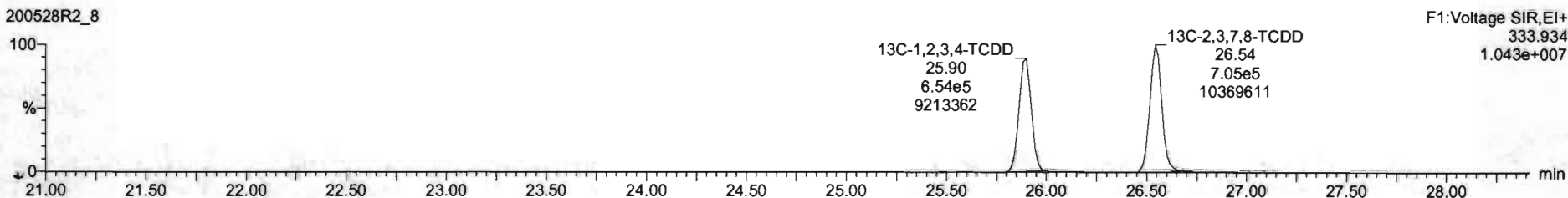
200528R2\_8



**13C-2,3,7,8-TCDD**  
200528R2\_8



200528R2\_8



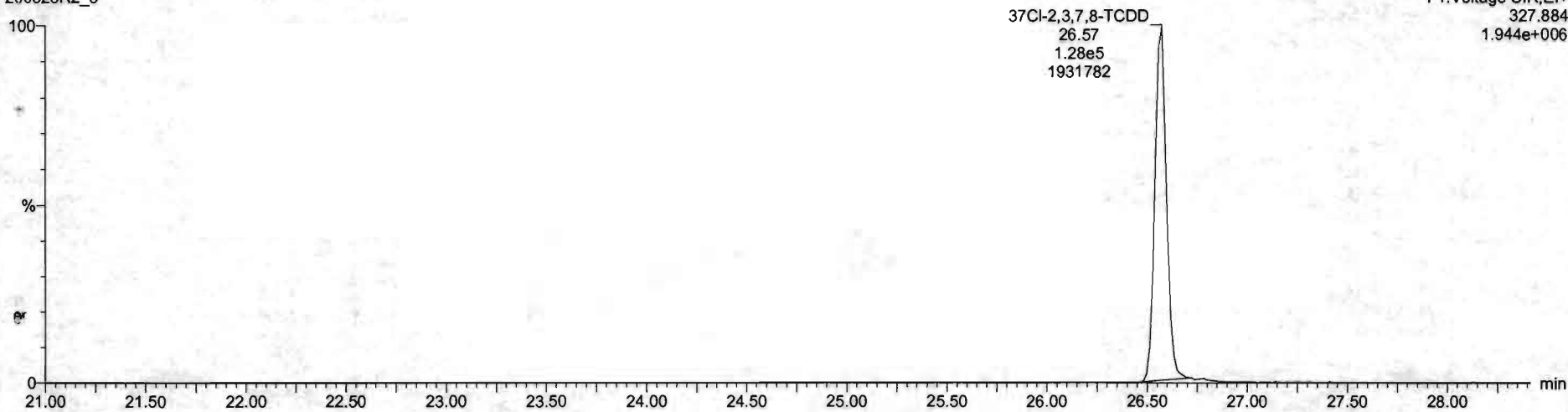
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Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

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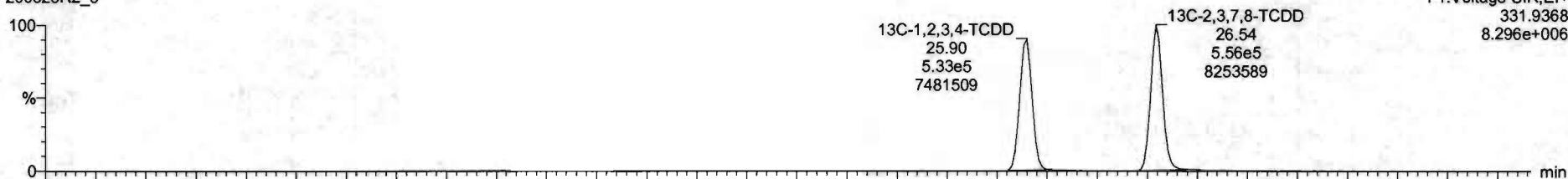
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200528R2\_8

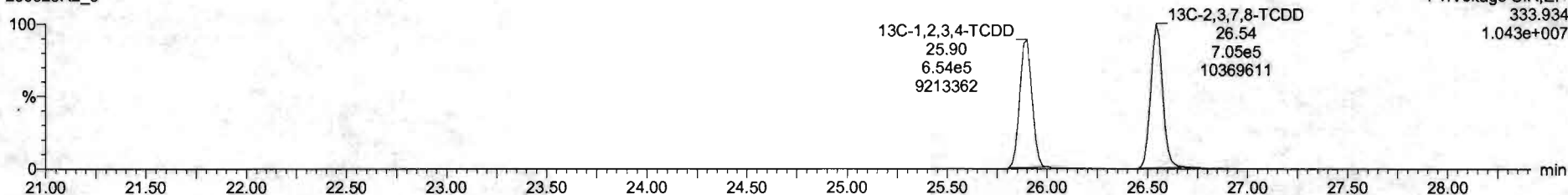


**13C-1,2,3,4-TCDD**

200528R2\_8



200528R2\_8



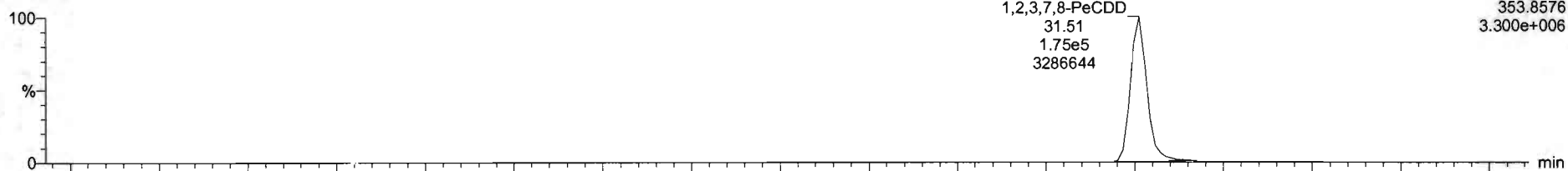
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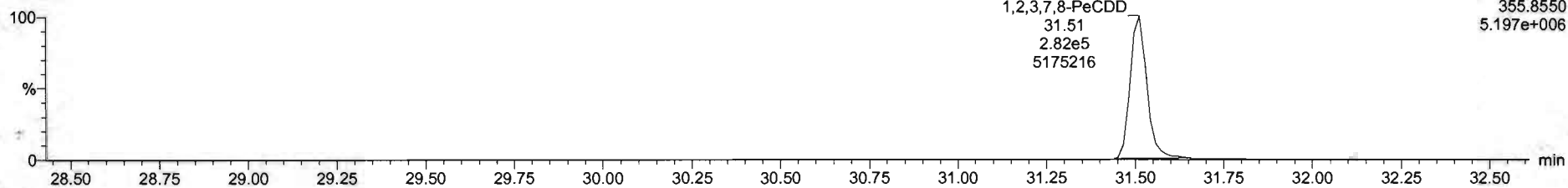
Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200528R2\_8

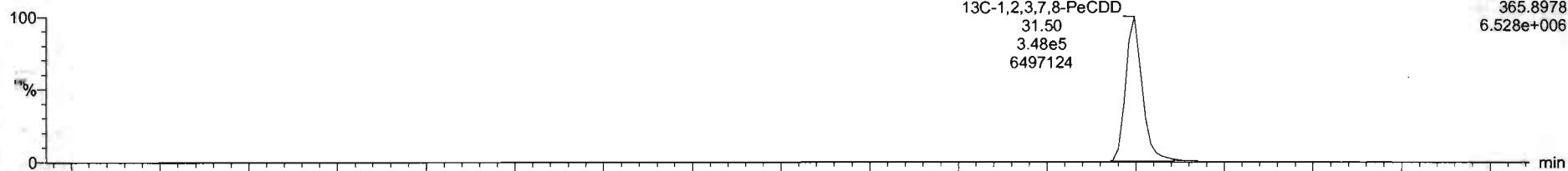


200528R2\_8

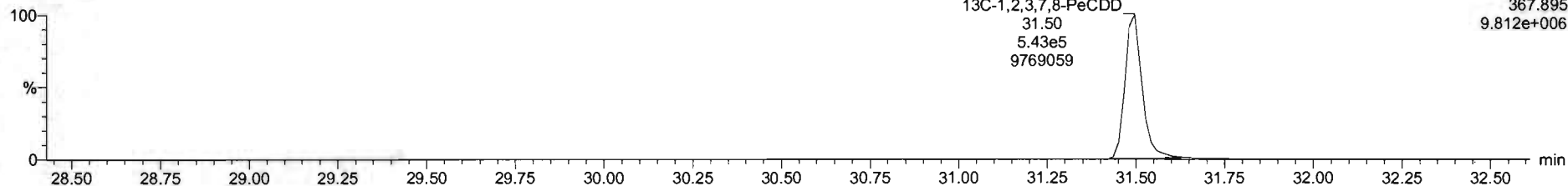


**13C-1,2,3,7,8-PeCDD**

200528R2\_8



200528R2\_8



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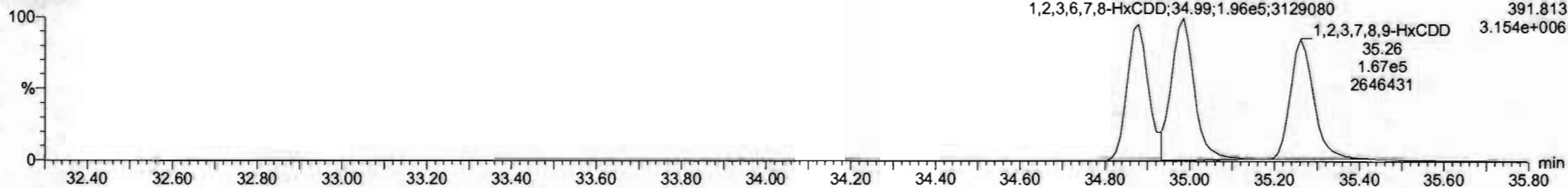
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**1,2,3,4,7,8-HxCDD**

200528R2\_8

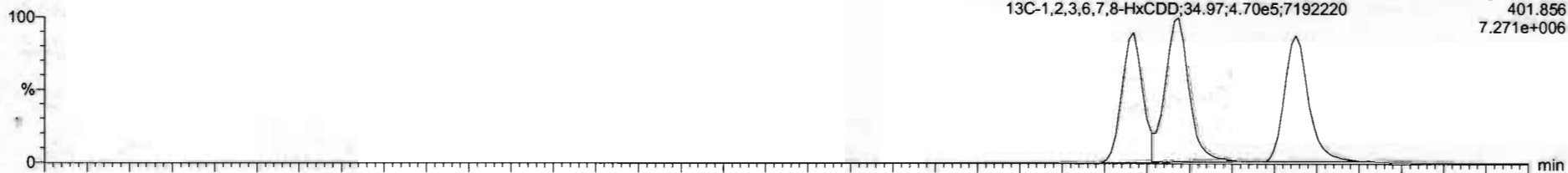


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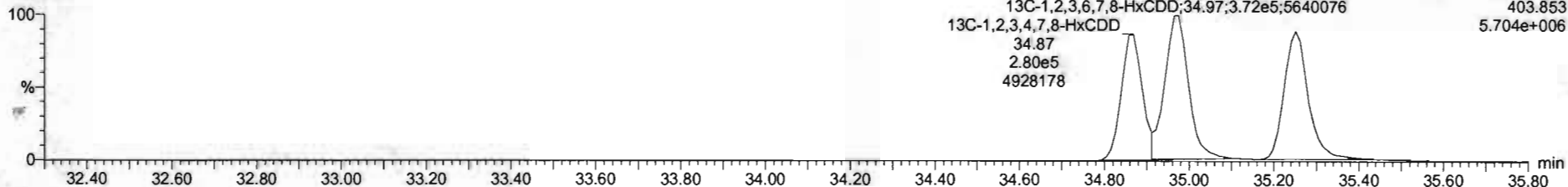


**13C-1,2,3,4,7,8-HxCDD**

200528R2\_8

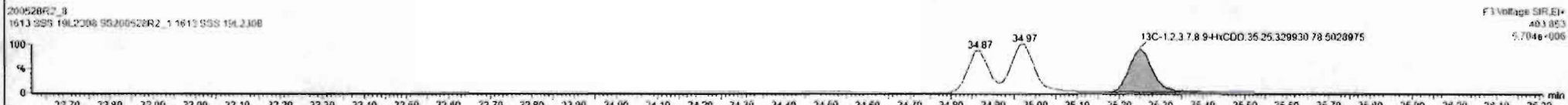
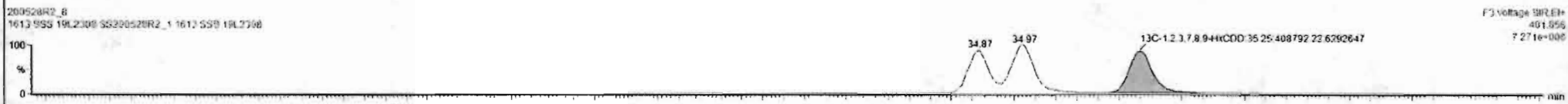
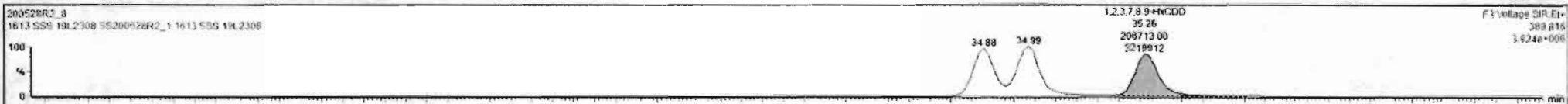


200528R2\_8





#	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	1.009	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.57e5	1.02	NO	0.8639	1.000	36.50	1.000	55.6	112	0.160	55.6
7	OCDD	5.24e5	0.85	NO	0.9136	1.000	41.78	1.001	113	113	0.171	113
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0333	11.4
9	1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	113	0.0942	55.7
10	2,3,4,7,8-PeCDF	7.62e5	1.54	NO	0.9348	1.000	21.21	1.000	62.1	124	0.0853	62.1
11	1,2,3,4,7,8-HxCDF	4.38e5	1.19	NO	0.8845	1.000	23.99	1.000	58.9	115	0.114	58.9
12	1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8892	1.000	34.12	1.000	59.1	116	0.108	59.1
13	2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.71	1.000	57.2	114	0.117	57.2
14	1,2,3,7,8,9-HxCDF	3.52e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15	1,2,3,4,5,7,8-HpCDF	3.16e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	115	0.186	58.9
16	1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.190	59.2
17	OCDF	5.22e5	0.97	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1583	1.000	26.54	1.025	91.9	91.9	0.0837	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	88.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7750	1.000	34.87	1.014	86.6	86.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.28	NO	1.0187	1.000	34.97	1.017	88.7	88.7	0.136	



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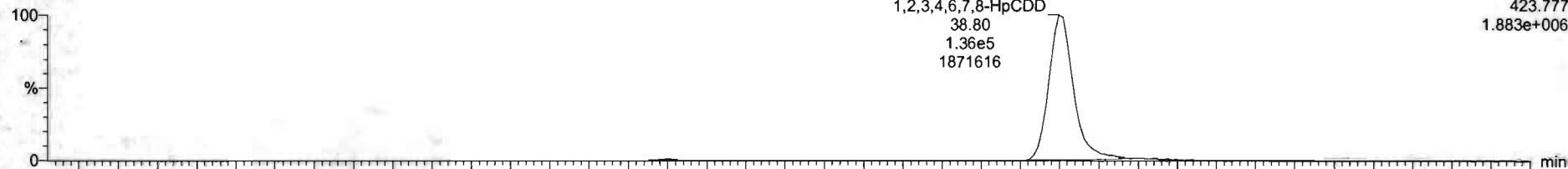
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Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

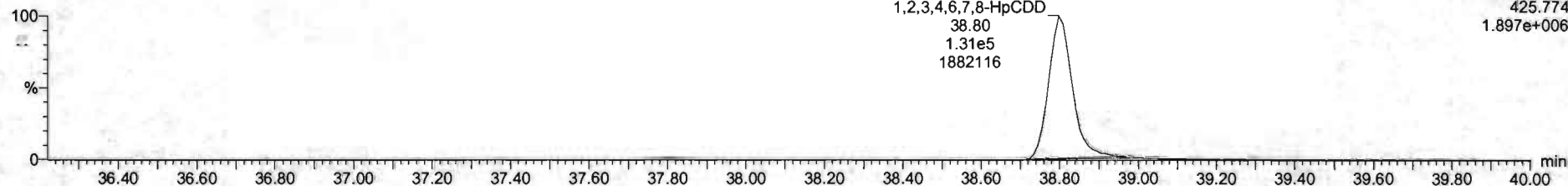
**1,2,3,4,6,7,8-HpCDD**

200528R2\_8



F4: Voltage SIR, EI+  
423.777  
1.883e+006

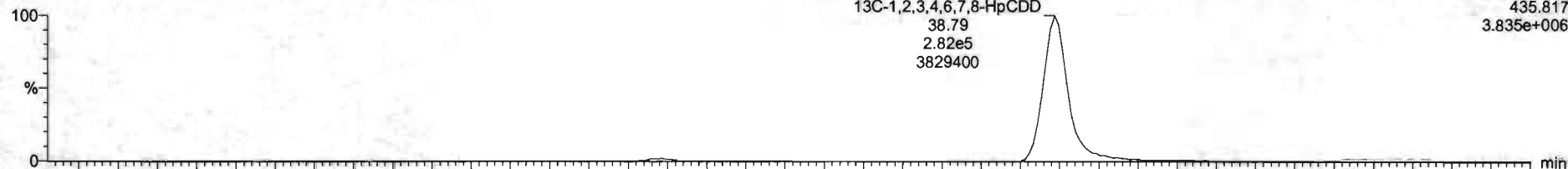
200528R2\_8



F4: Voltage SIR, EI+  
425.774  
1.897e+006

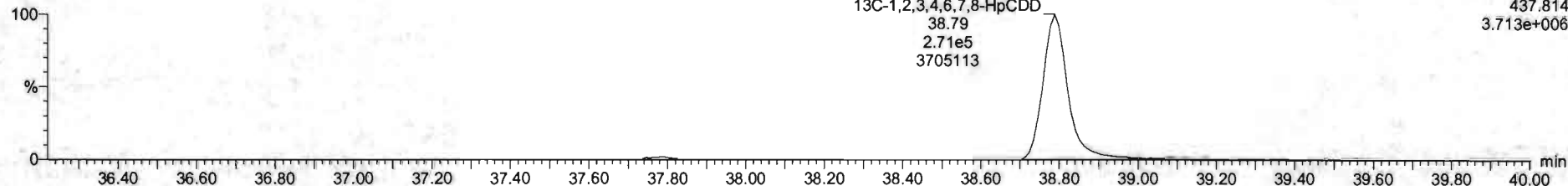
**13C-1,2,3,4,6,7,8-HpCDD**

200528R2\_8



F4: Voltage SIR, EI+  
435.817  
3.835e+006

200528R2\_8



F4: Voltage SIR, EI+  
437.814  
3.713e+006

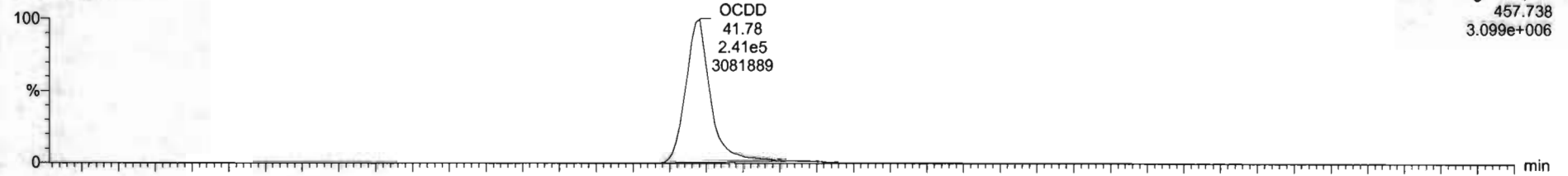
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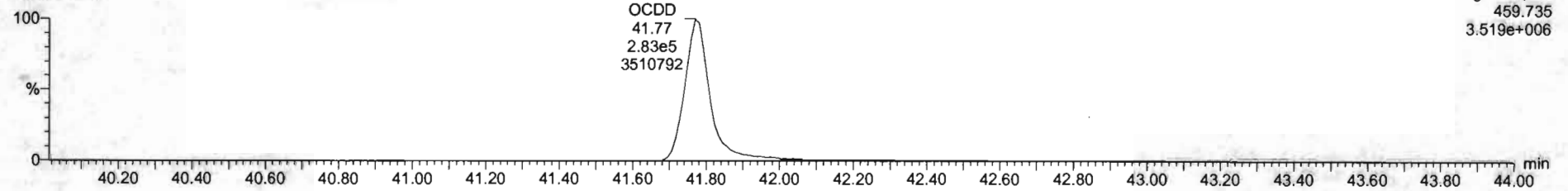
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OCDD

200528R2\_8

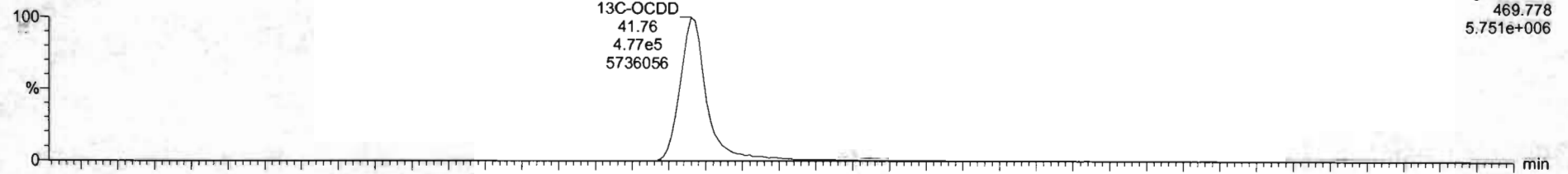


200528R2\_8

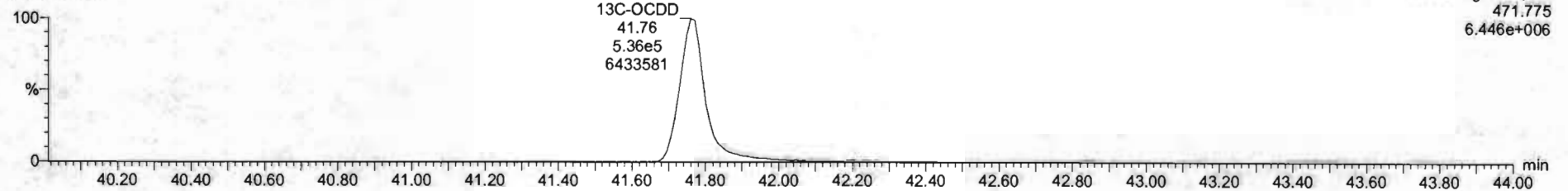


13C-OCDD

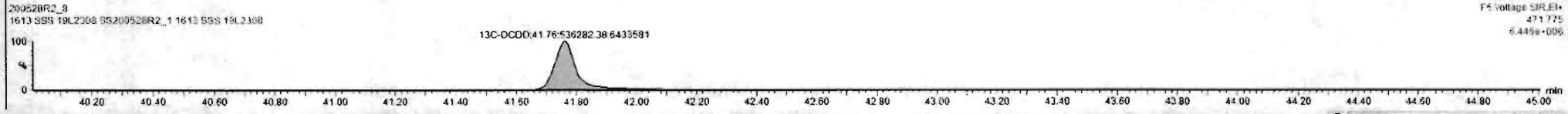
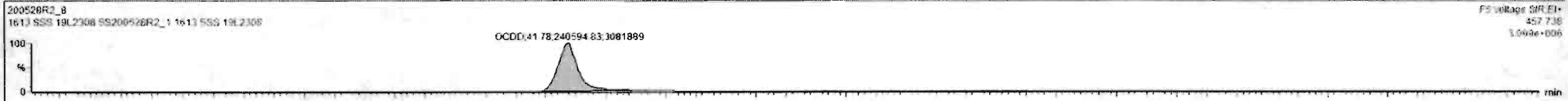
200528R2\_8



200528R2\_8



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	





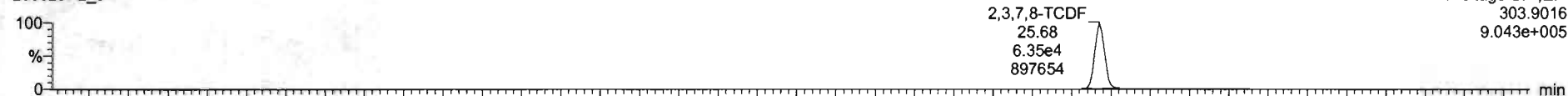
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Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

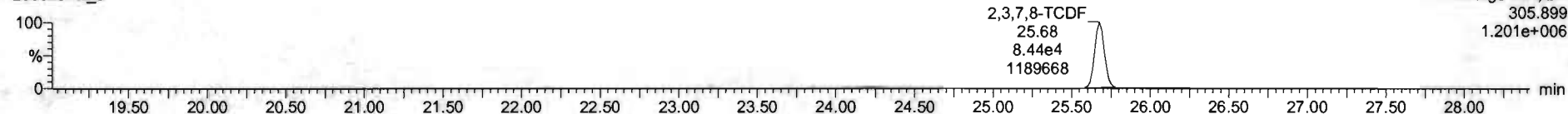
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**2,3,7,8-TCDF**

200528R2\_8

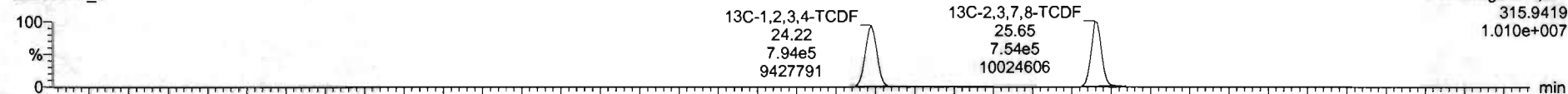


200528R2\_8

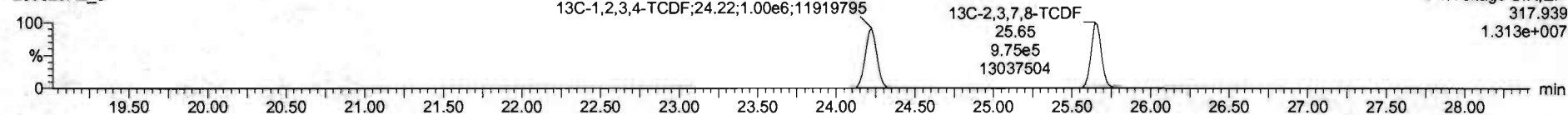


**13C-2,3,7,8-TCDF**

200528R2\_8

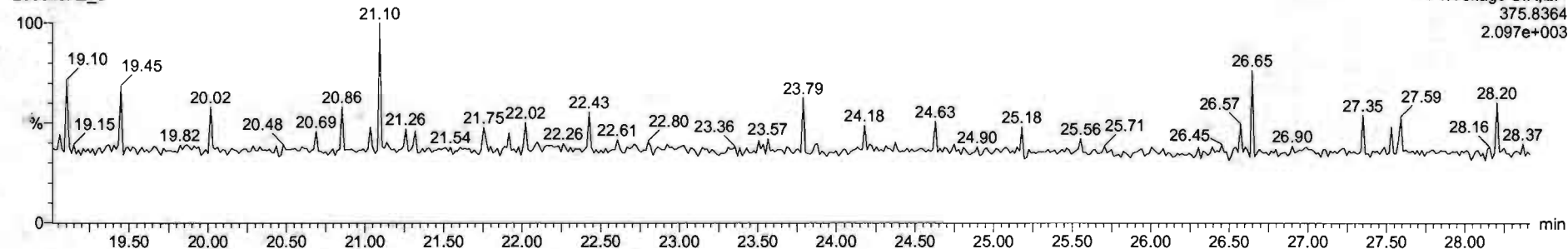


200528R2\_8



**DPE1**

200528R2\_8



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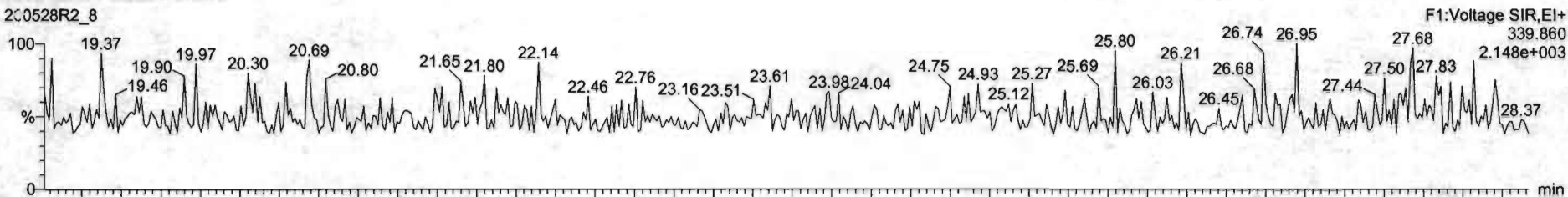
Last Altered: Friday, May 29, 2020 7:38:11 AM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

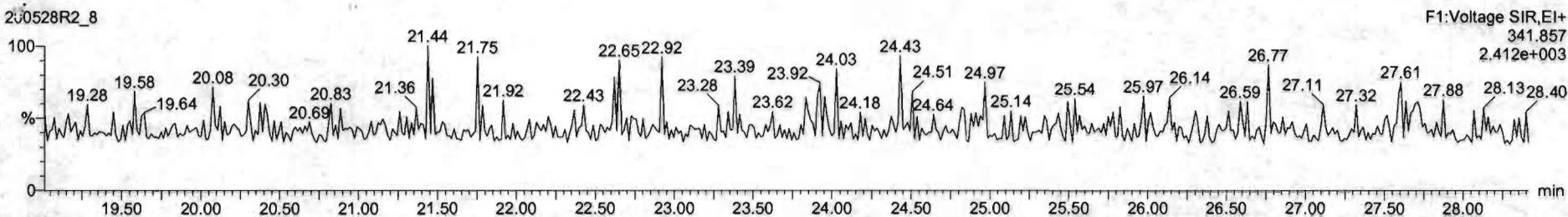
Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1st Func. Penta-Furans

200528R2\_8

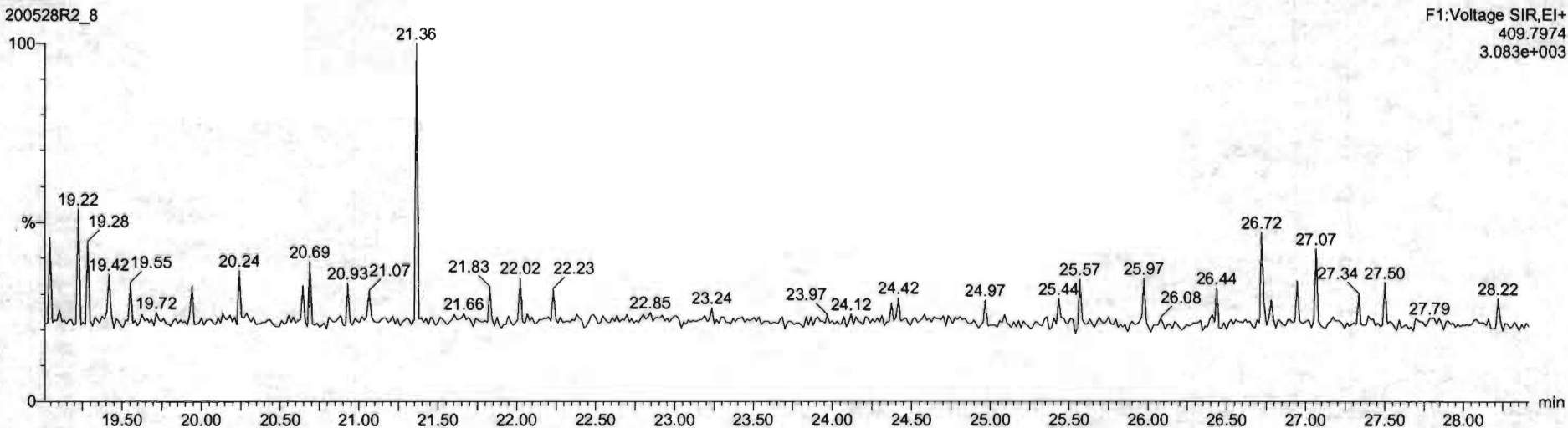


200528R2\_8



DPE6

200528R2\_8



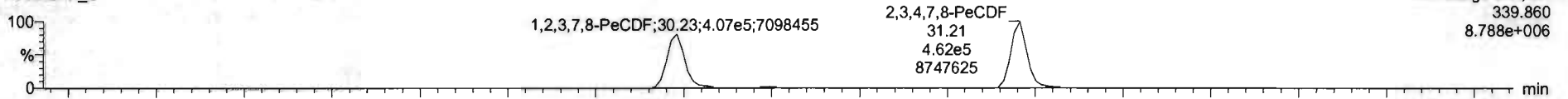
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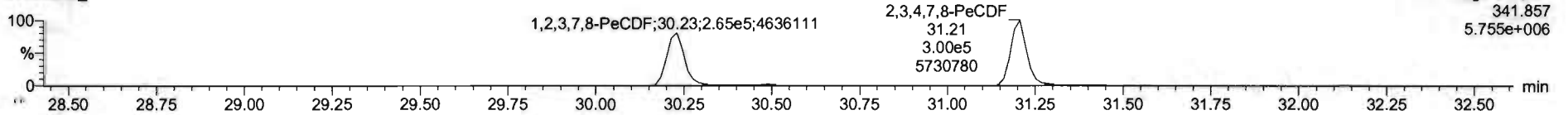
**1,2,3,7,8-PeCDF**

200528R2\_8



F2:Voltage SIR,EI+  
339.860  
8.788e+006

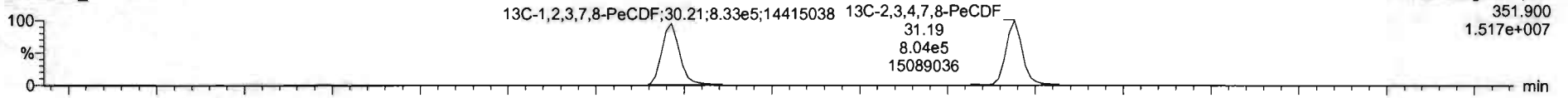
200528R2\_8



F2:Voltage SIR,EI+  
341.857  
5.755e+006

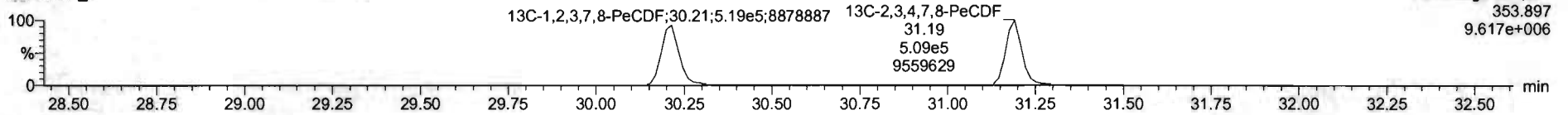
**13C-1,2,3,7,8-PeCDF**

200528R2\_8



F2:Voltage SIR,EI+  
351.900  
1.517e+007

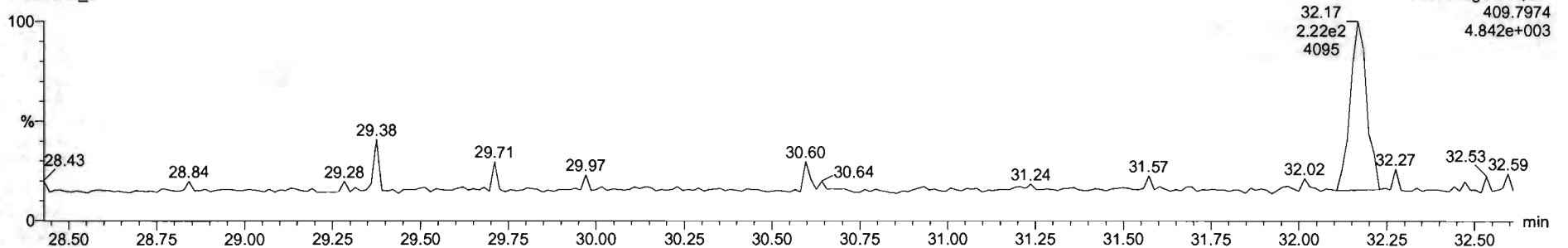
200528R2\_8



F2:Voltage SIR,EI+  
353.897  
9.617e+006

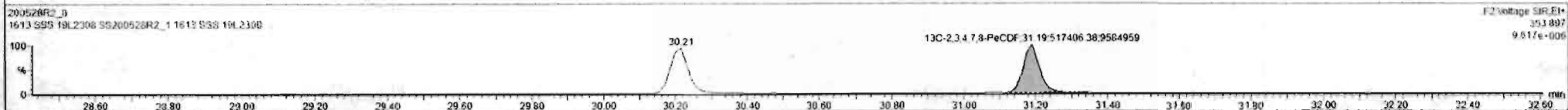
**DPE2**

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	2.06e5	1.22	NO	1.0334	1.000	34.85	1.000	56.0	116	0.101	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8925	1.000	34.99	1.000	58.0	116	0.105	56.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8264	1.000	35.05	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.87e5	1.02	NO	0.8639	1.000	36.80	1.000	55.8	112	0.168	55.8
7 OCDD	5.15e5	0.38	NO	0.9136	1.000	41.75	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0323	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	20.23	1.001	55.7	111	0.0942	55.7
10 2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.9348	1.000	31.21	1.000	60.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.36e5	1.19	NO	0.8845	1.000	23.99	1.000	58.9	118	0.114	56.9
12 1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8252	1.000	34.12	1.000	59.1	118	0.108	59.1
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.71	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,6,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17 OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0837	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	88.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	24.87	1.014	86.6	86.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.128	





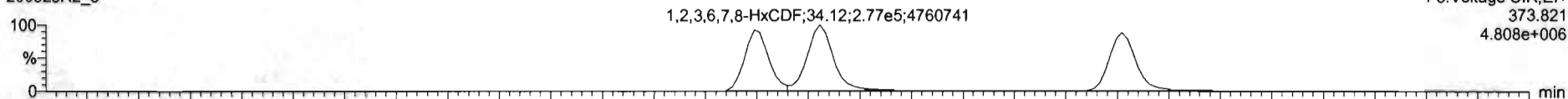
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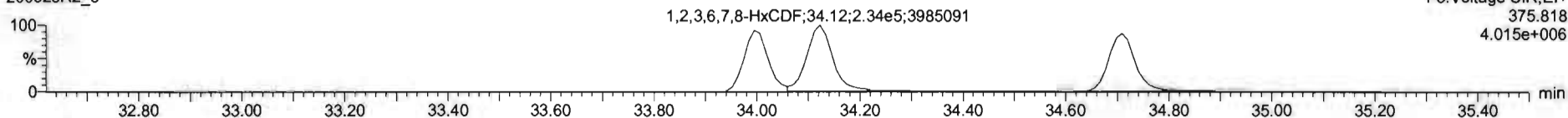
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**1,2,3,4,7,8-HxCDF**

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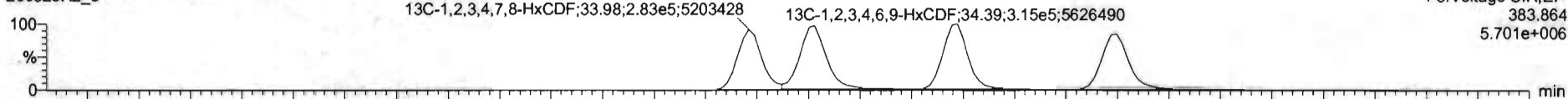


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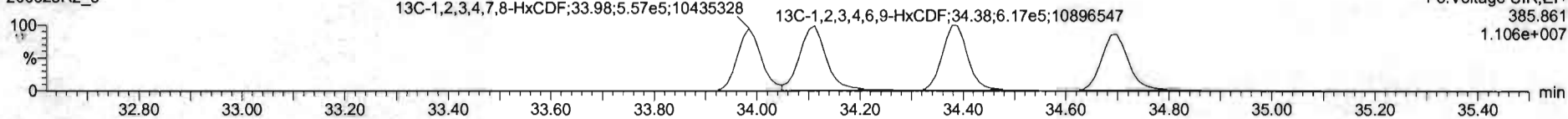


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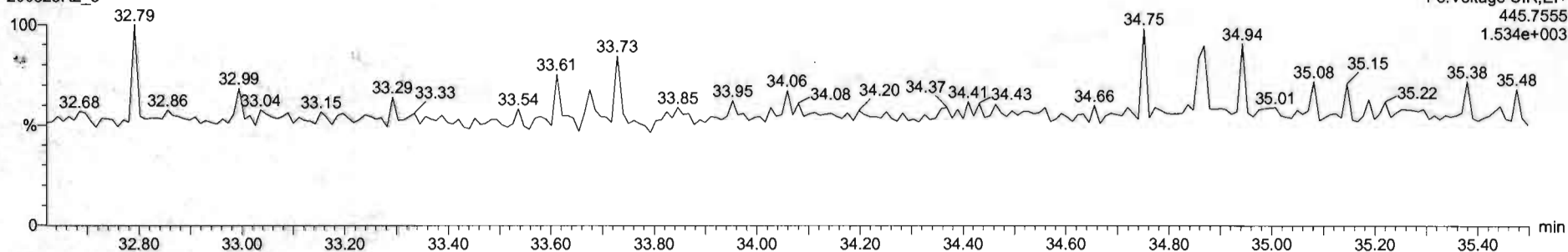


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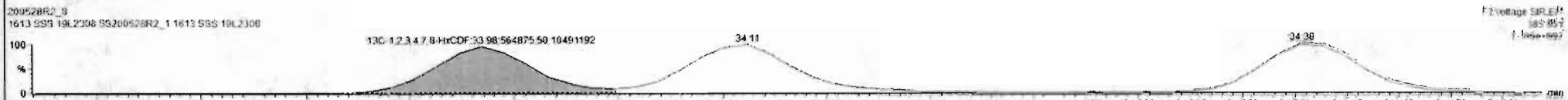
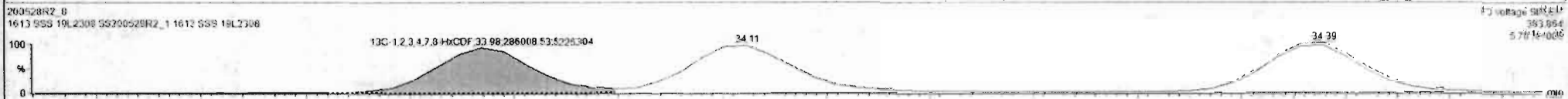
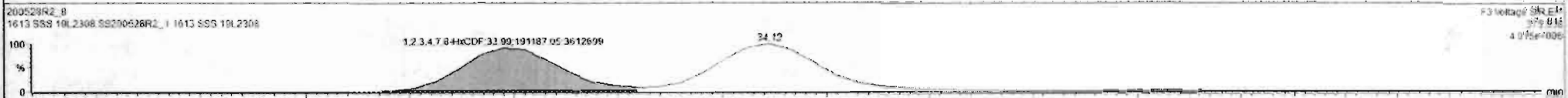
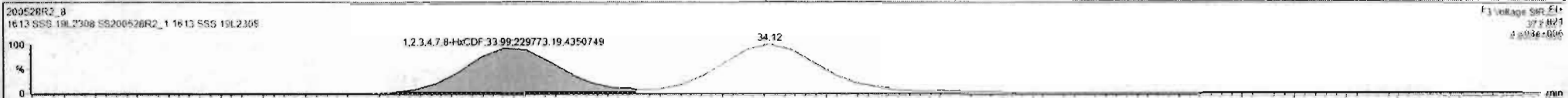


**DPE3**

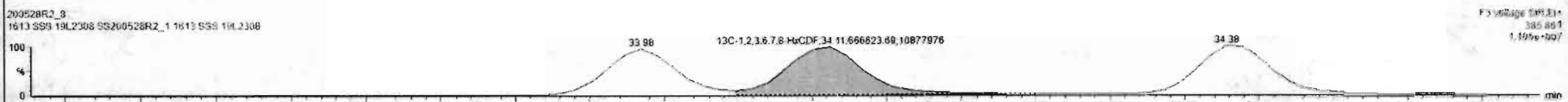
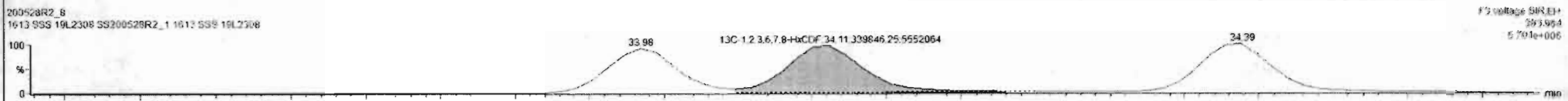
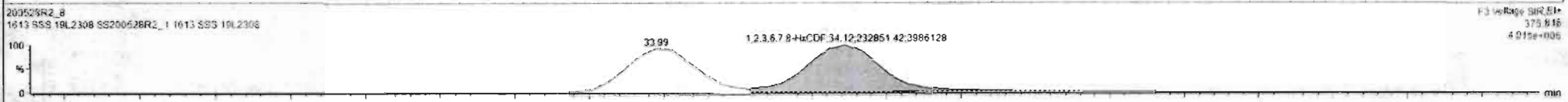
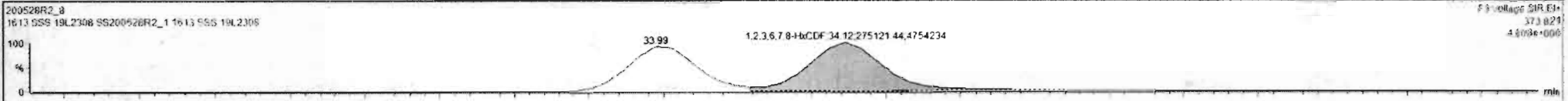
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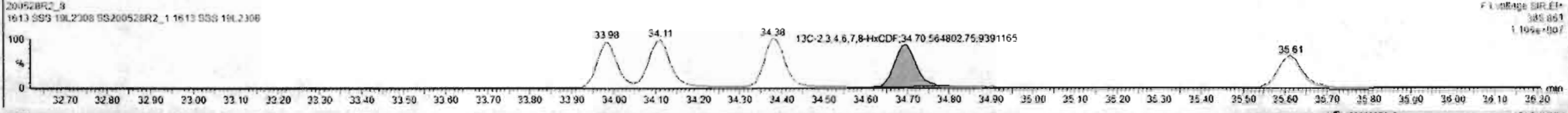
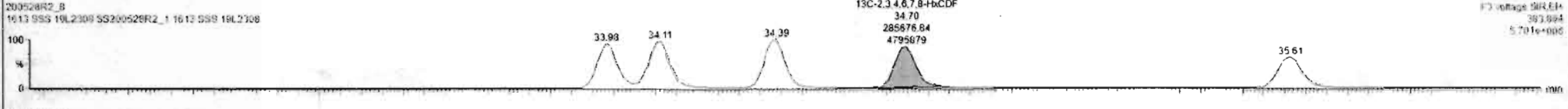
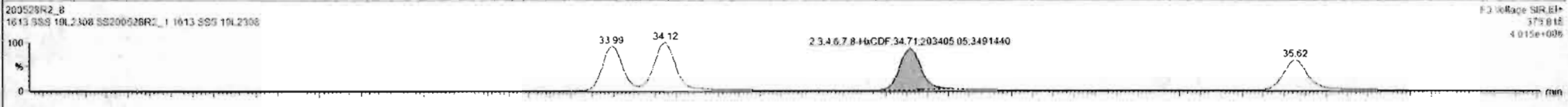
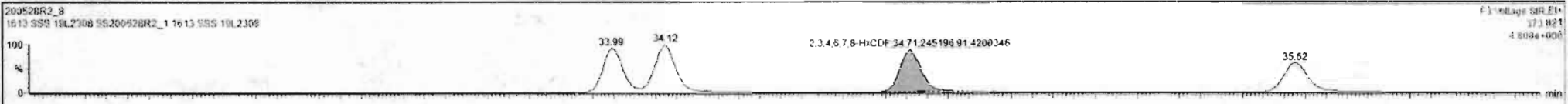
Name	Resp	RA	nly	RRF	wVal	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.76	NO	0.8863	1.000	26.57	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.8981	1.000	31.51	1.000	56.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	3.26e5	1.22	NO	1.0334	1.000	24.86	1.000	56.0	116	0.1011	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8929	1.000	24.99	1.000	58.0	116	0.105	56.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8869	1.000	25.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.8639	1.000	25.50	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	1.0120	1.000	39.34	1.000	59.2	118	0.199	59.2
17 OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0837	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	86.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	24.87	1.014	85.6	88.6	0.160	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.36	NO	1.0187	1.000	24.97	1.017	88.7	88.7	0.138	



Name	Reap	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.76	NO	0.8863	1.000	26.67	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.53	1.000	56.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	3.86e5	1.22	NO	1.0334	1.000	34.86	1.000	56.0	116	0.101	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8973	1.000	34.99	1.000	58.0	116	0.105	58.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8969	1.000	35.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,5,7,8-HpCDD	2.67e5	1.02	NO	0.8639	1.000	36.60	1.000	55.6	112	0.168	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	0.0333	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	



SL	Name	Resp	RA	Adj	RF	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	0.8845	1.000	33.99	1.000	55.9	112	0.113	55.9
12	1,2,3,6,7,8-HxCDF	5.06e5	1.16	NO	0.8852	1.000	34.12	1.000	56.8	114	0.107	56.8
13	2,3,4,6,7,8-HxCDF	4.49e5	1.21	NO	0.9341	1.000	34.71	1.000	56.5	113	0.117	56.5
14	1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8797	1.000	35.62	1.000	55.3	111	0.174	55.3
15	1,2,3,4,6,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.196	58.9
16	1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17	OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.75	NO	1.1583	1.000	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	1.0187	1.000	34.97	1.017	88.7	88.7	0.136	





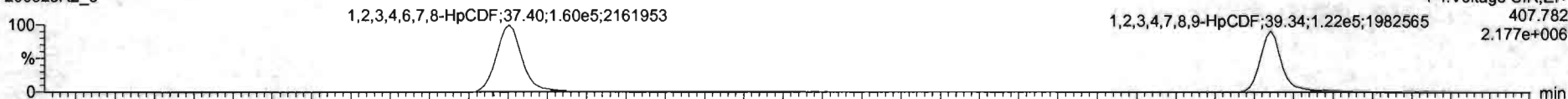
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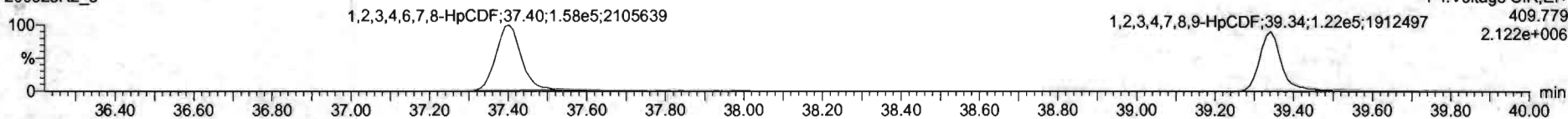
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**1,2,3,4,6,7,8-HpCDF**

200528R2\_8



200528R2\_8

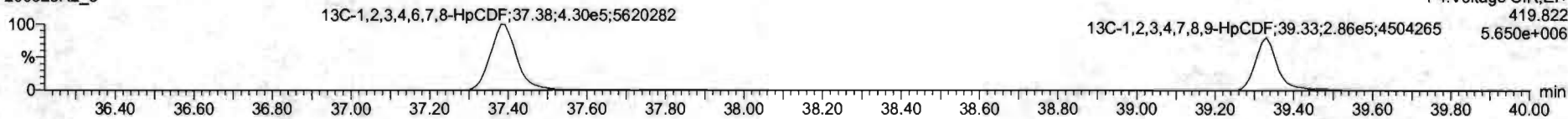


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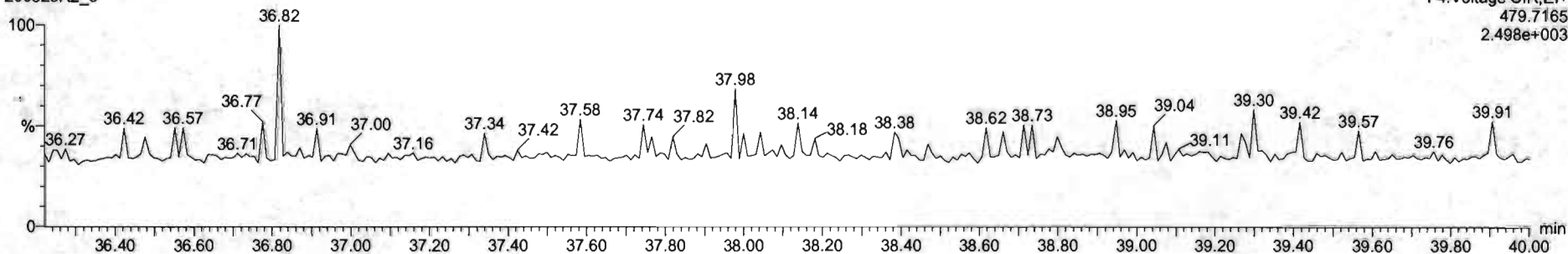


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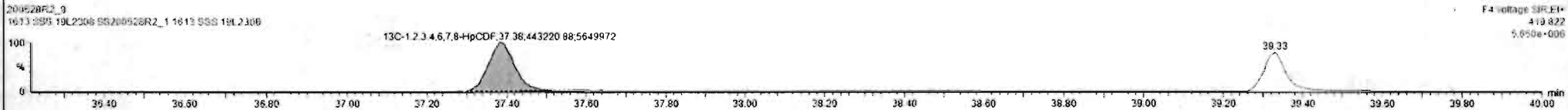


**DPE4**

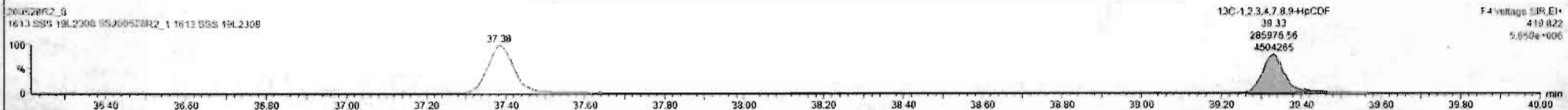
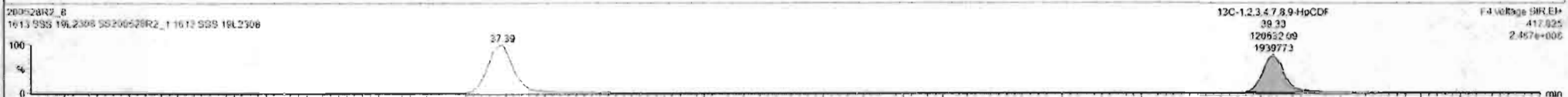
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Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.78	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0252	11.1
2 1,2,3,7,8-PeCDD	5.57e5	0.62	NO	0.9081	1.000	31.51	1.000	58.4	113	0.0622	58.4
3 1,2,3,4,7,8-HxCDD	3.56e5	1.22	NO	1.0334	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	1.26e6	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	0.8450	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	



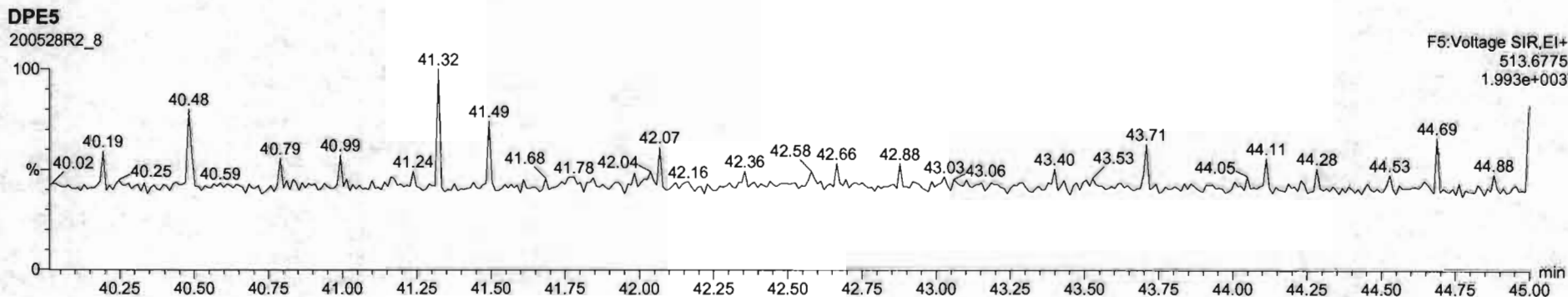
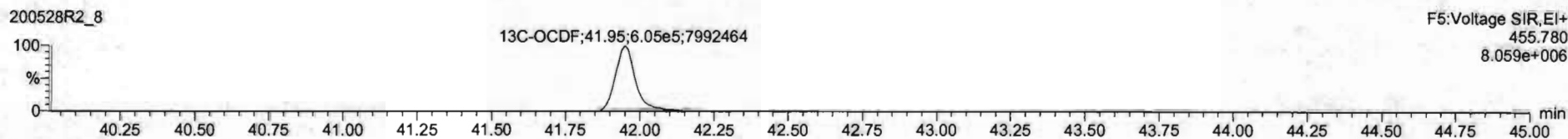
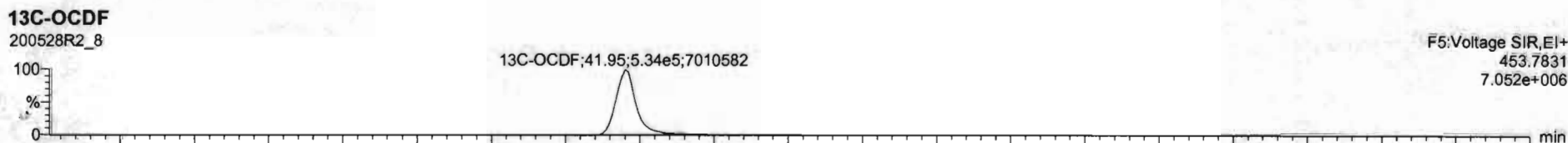
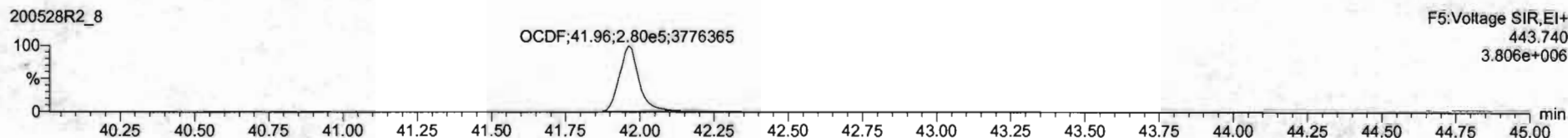
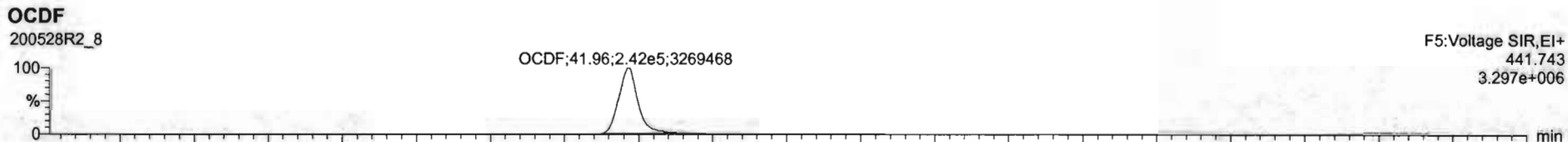
#	Name	Resp	RA	nfy	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.24e5	0.76	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0262	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.82	NO	0.9081	1.000	31.01	1.000	58.4	113	0.0622	58.4
3	1,2,3,4,7,8-HxCDD	2.56e5	1.22	NO	1.0334	1.000	24.86	1.000	58.0	116	0.101	58.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8925	1.000	24.99	1.000	58.0	116	0.105	58.0
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	58.6	112	0.168	58.6
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	5.08e5	1.18	NO	0.8892	1.000	34.12	1.000	58.8	114	0.107	58.8
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	58.5
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	1.1583	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	0.8490	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	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	



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

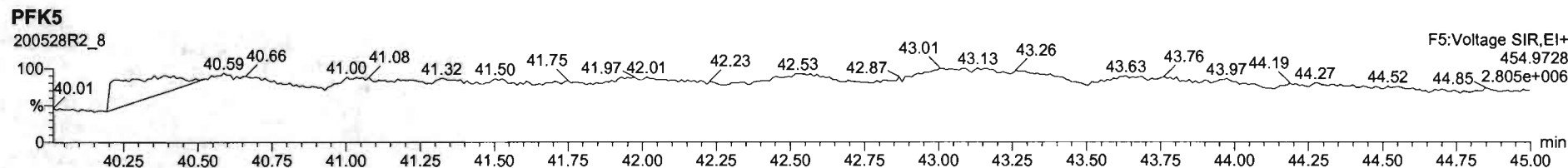
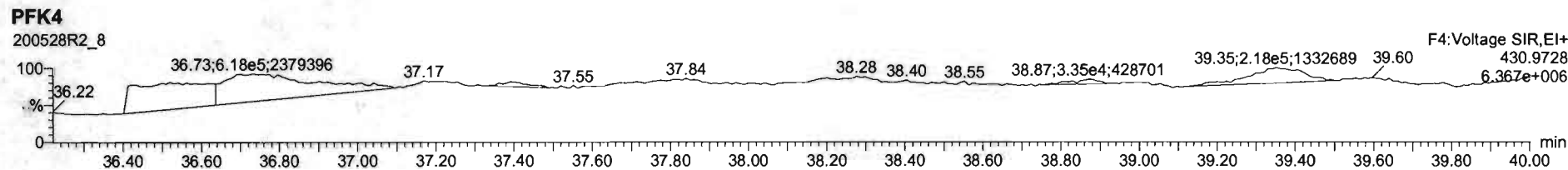
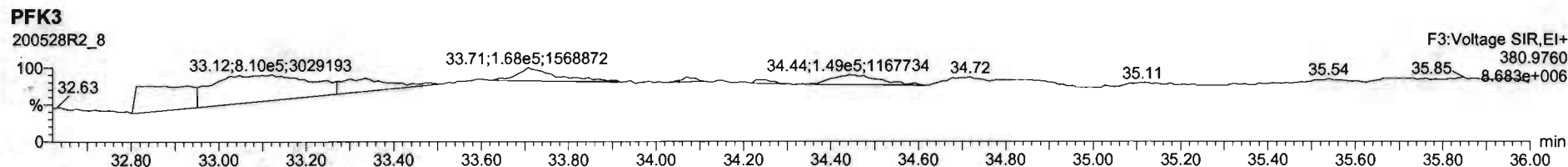
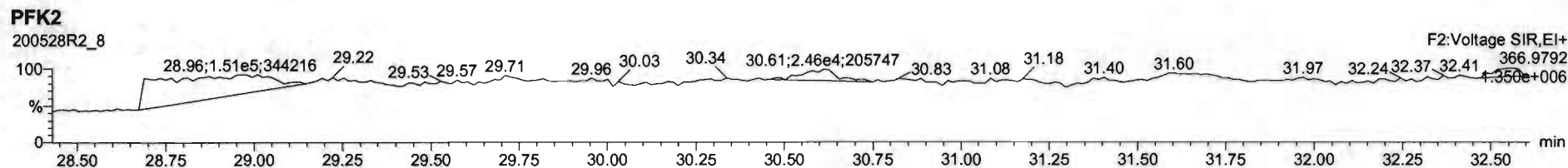
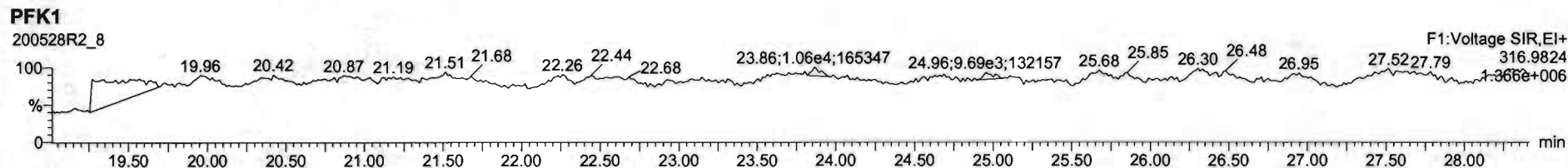




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Last Altered: Friday, May 29, 2020 7:38:11 AM Pacific Daylight Time  
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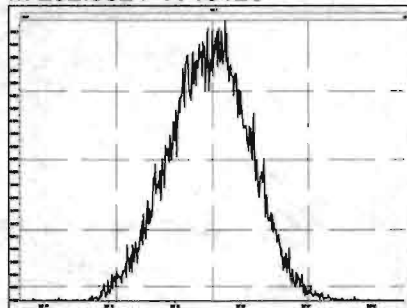
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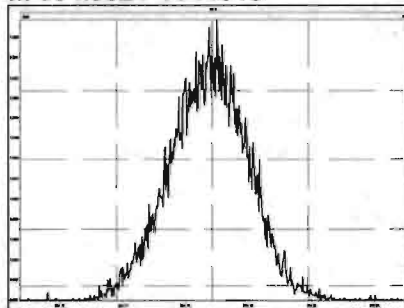
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Printed: Friday, May 29, 2020 07:19:01 Pacific Daylight Time

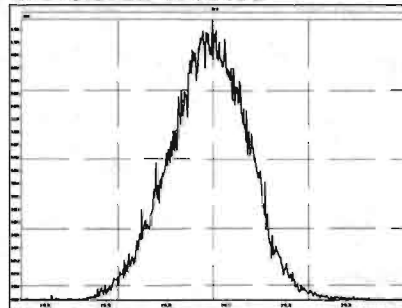
M 292.9824 R 10120



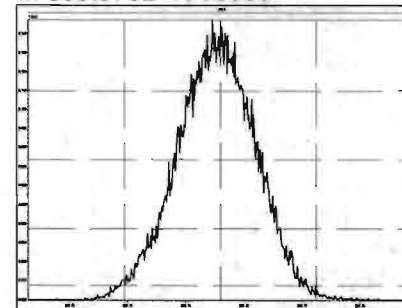
M 304.9824 R 11015



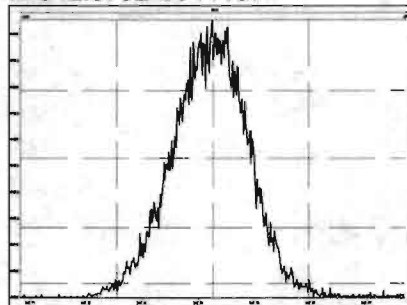
M 318.9792 R 10460



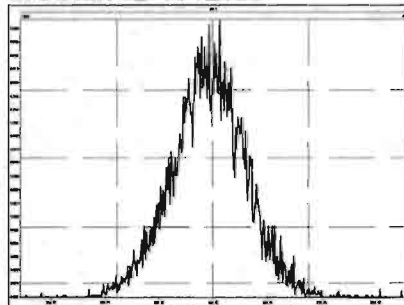
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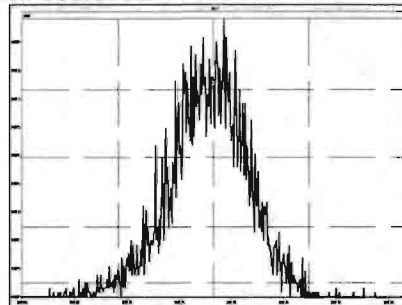
M 342.9792 R 11107



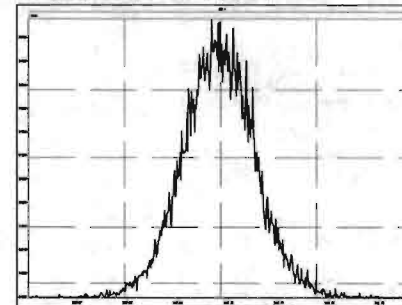
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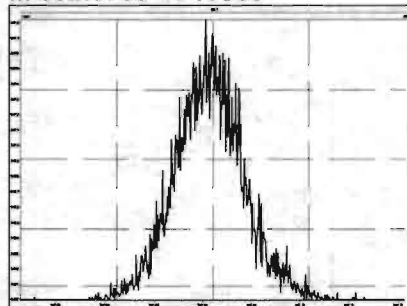
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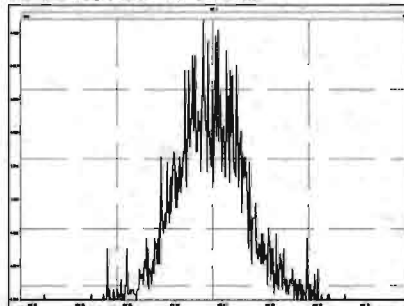
M 380.9760 R 11904



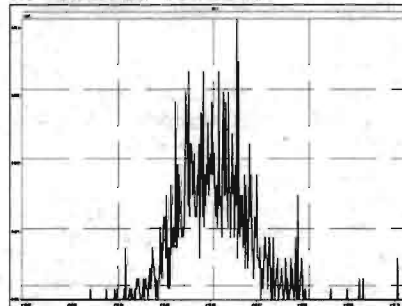
M 392.9760 R 13589



M 404.9760 R 14045



M 416.9760 R 18245



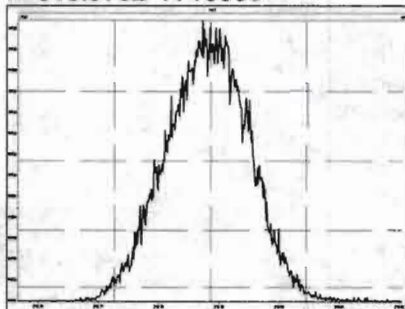
Experiment Calibration Report

MassLynx 4.1 SCN815

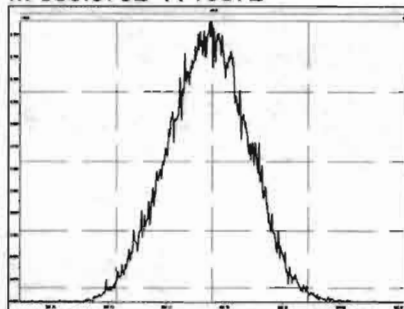
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Printed: Friday, May 29, 2020 07:19:21 Pacific Daylight Time

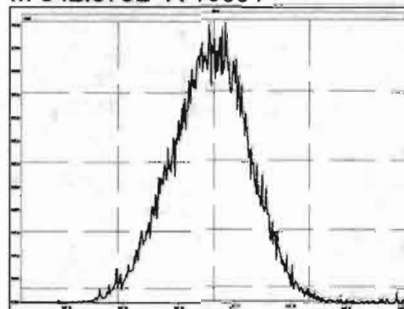
M 318.9792 R 10000



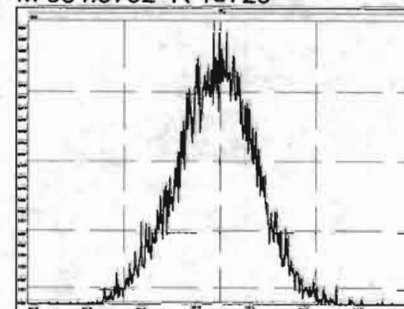
M 330.9792 R 10372



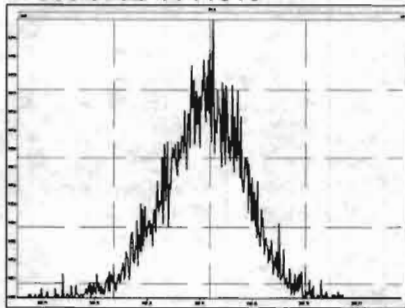
M 342.9792 R 10001



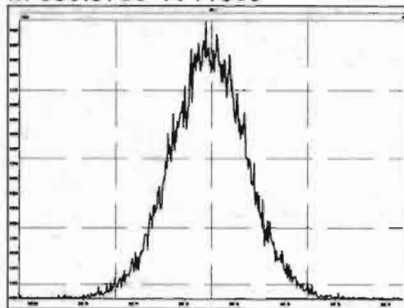
M 354.9792 R 10729



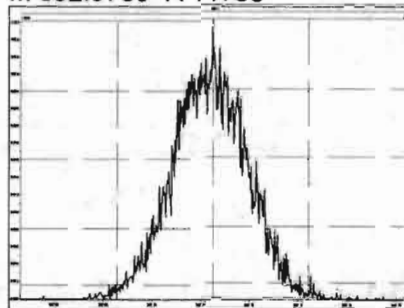
M 366.9792 R 11015



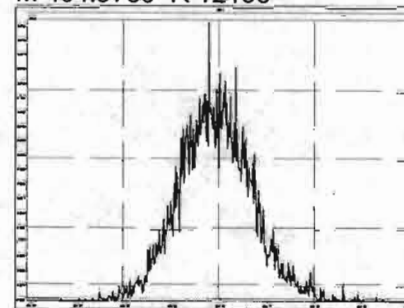
M 380.9760 R 11009



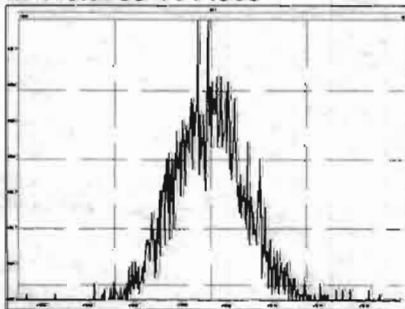
M 392.9760 R 11735



M 404.9760 R 12196



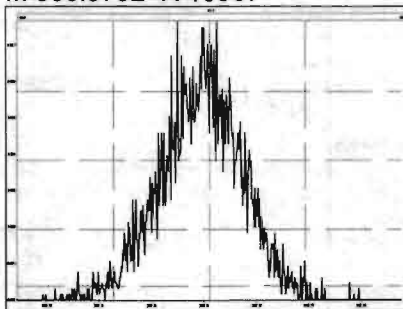
M 416.9760 R 14968



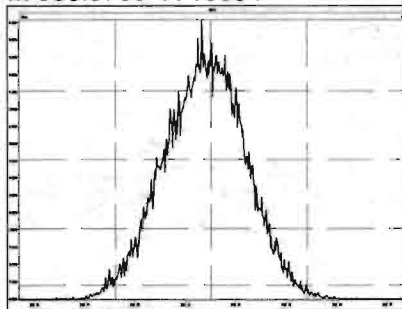
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Printed: Friday, May 29, 2020 07:19:38 Pacific Daylight Time

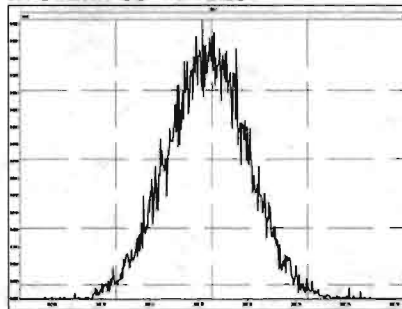
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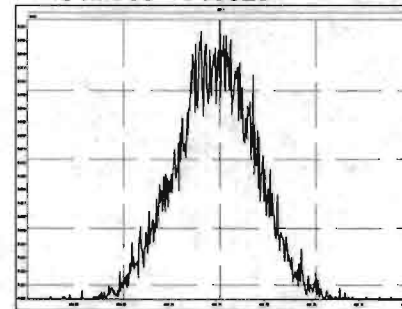
M 380.9760 R 10684



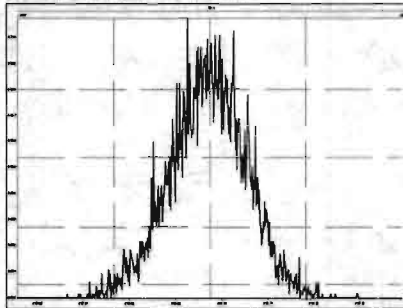
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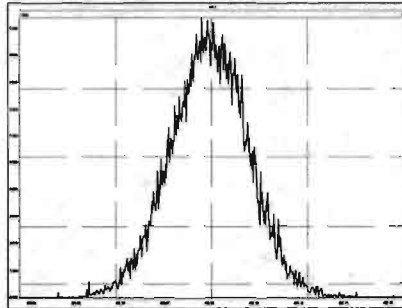
M 404.9760 R 10823



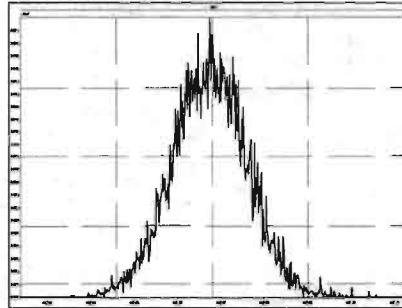
M 416.9760 R 11160



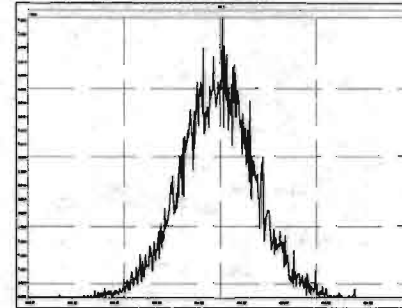
M 430.9728 R 11208



M 442.9728 R 12195



M 454.9728 R 10963



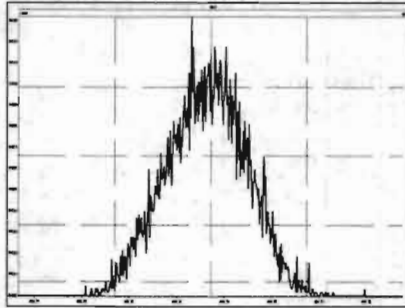
Experiment Calibration Report

MassLynx 4.1 SCN815

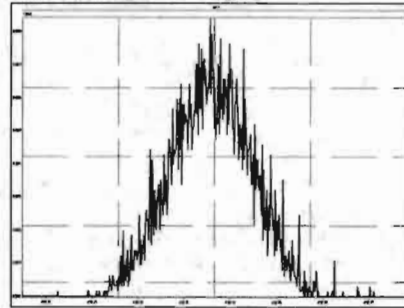
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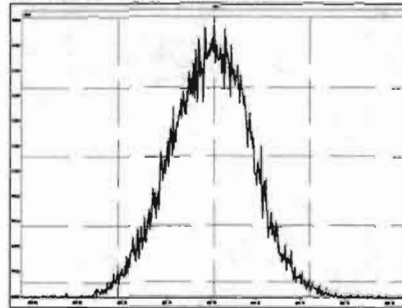
M 404.9760 R 10963



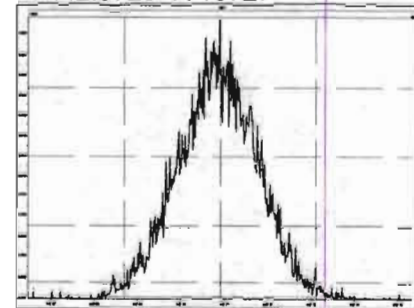
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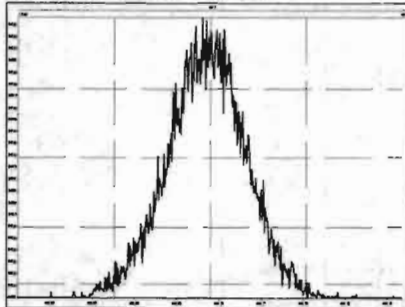
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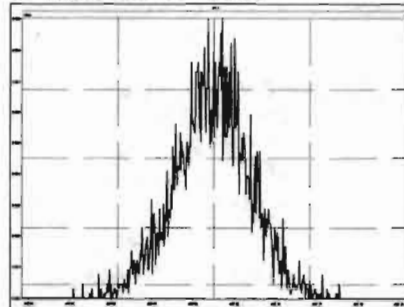
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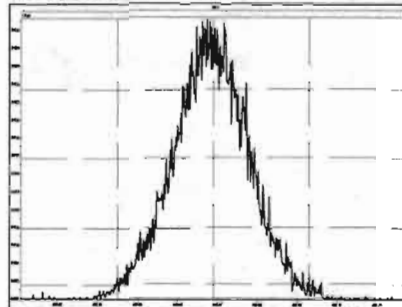
M 454.9728 R 11792



M 466.9728 R 12628



M 480.9696 R 11111

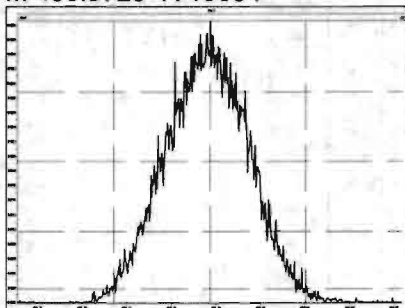




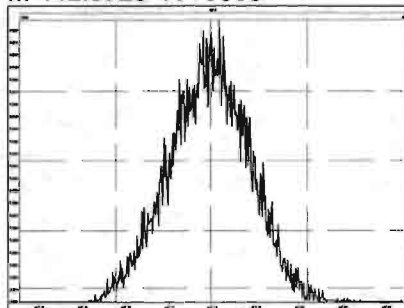
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Printed: Friday, May 29, 2020 07:20:18 Pacific Daylight Time

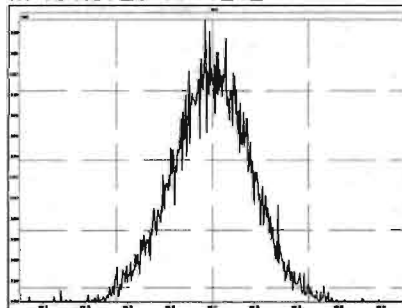
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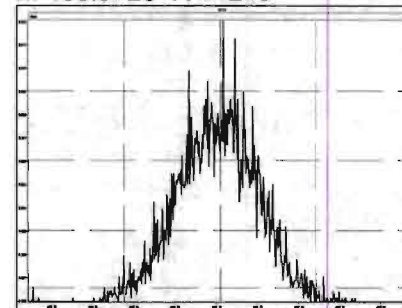
M 442.9728 R 10868



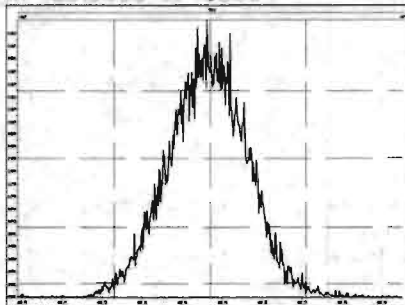
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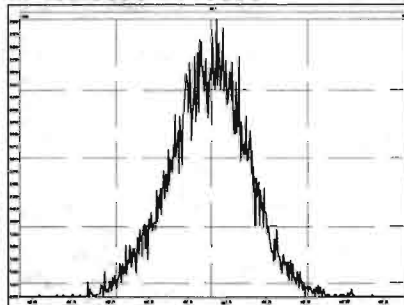
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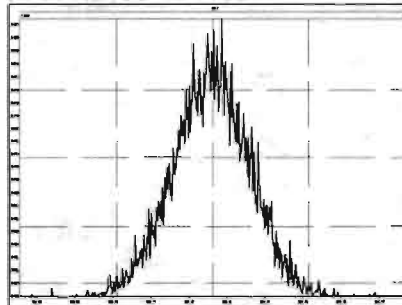
M 480.9696 R 10963



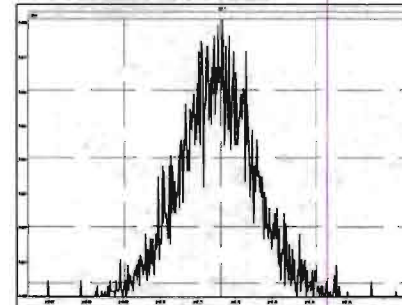
M 492.9696 R 10593



M 504.9696 R 11681



M 516.9697 R 11905



Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

DB 2/12/20 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

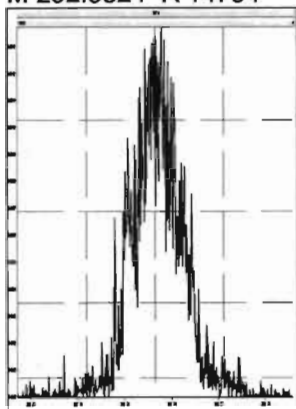
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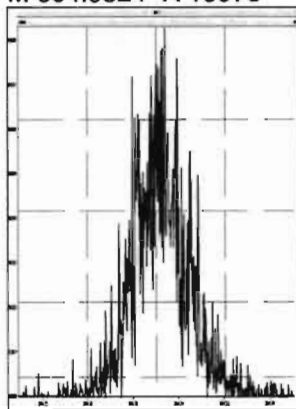
Compound name: 2,3,7,8-TCDF

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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
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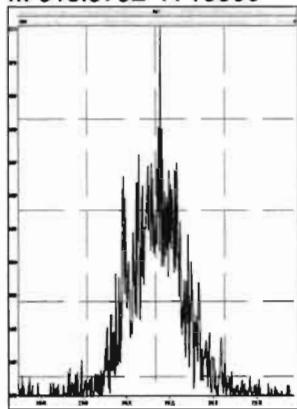
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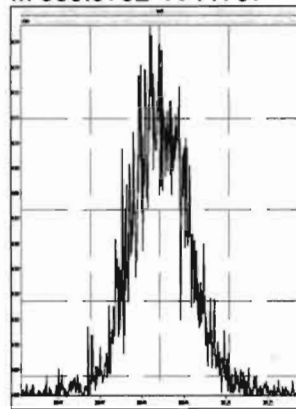
M 304.9824 R 15978



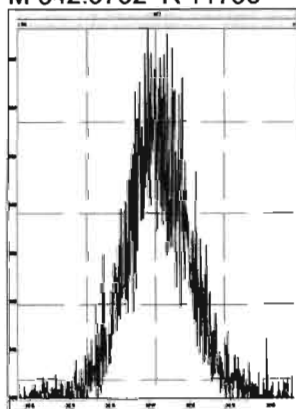
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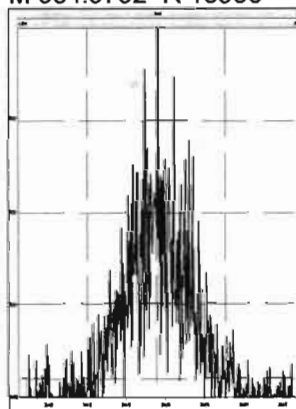
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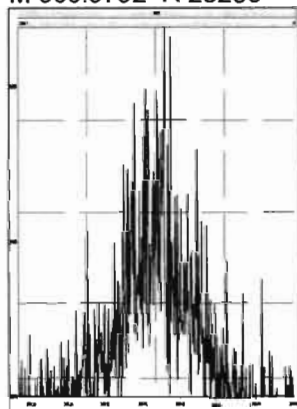
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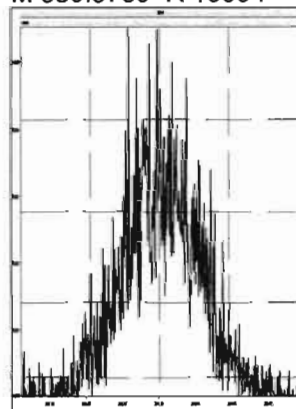
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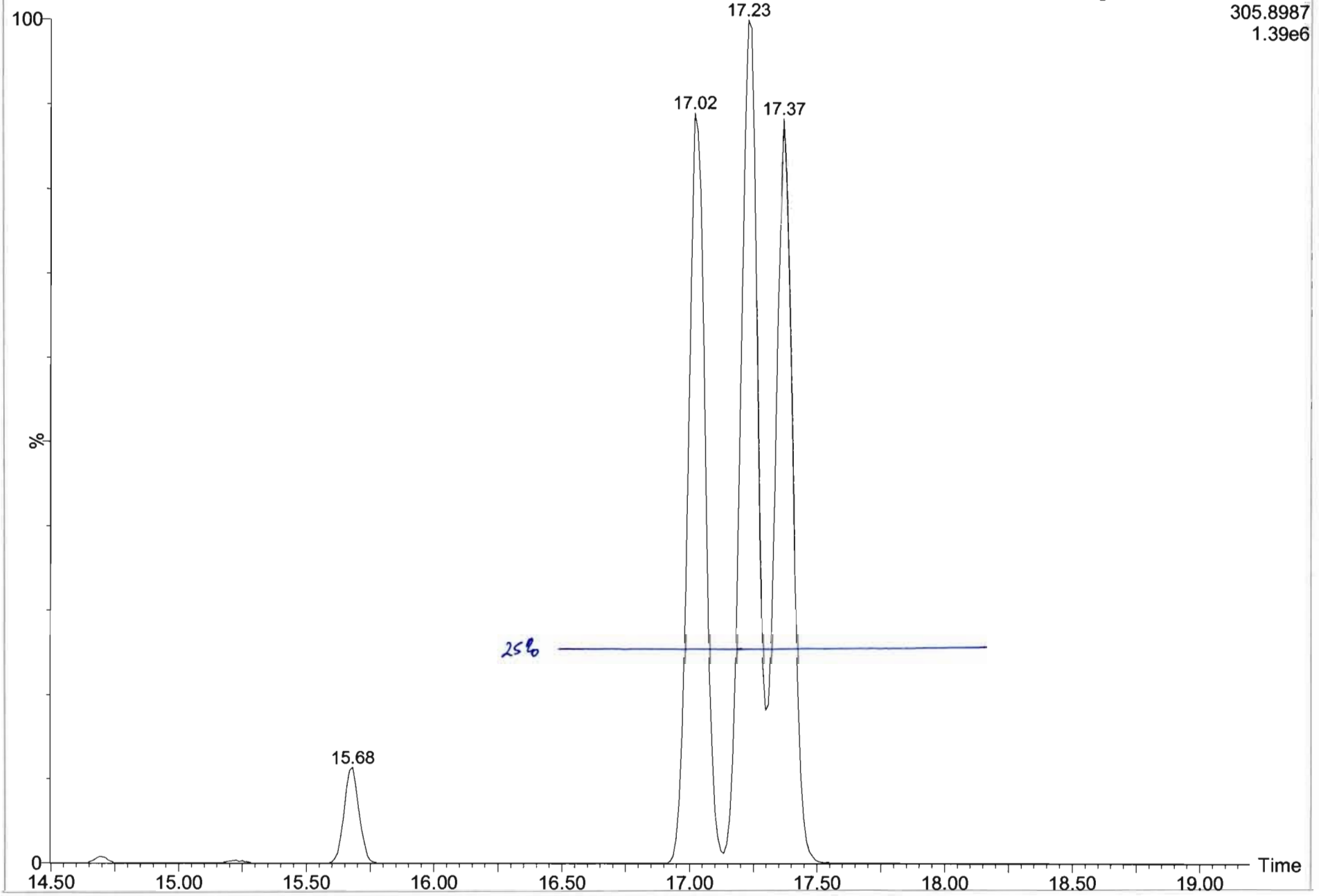
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M 380.9760 R 13094







Dataset: U:\VG7.PRO\Results\200211D2\200111D2\_2.qld

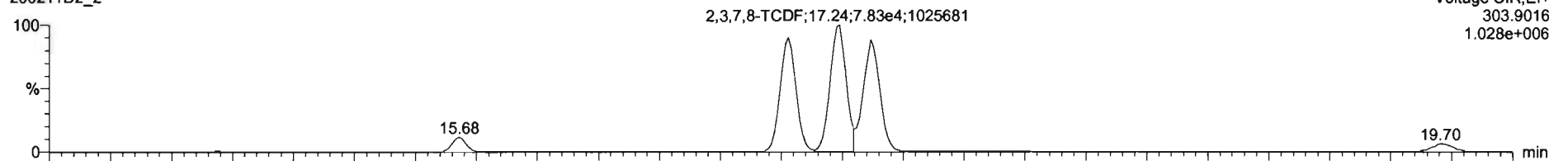
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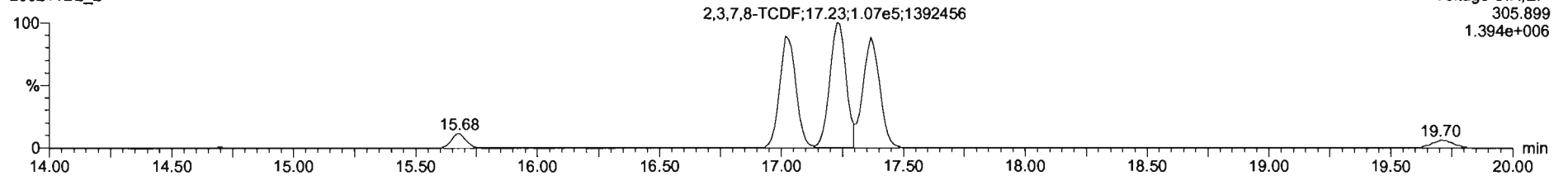
2,3,7,8-TCDF

200211D2\_2



Voltage SIR,EI+  
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1.028e+006

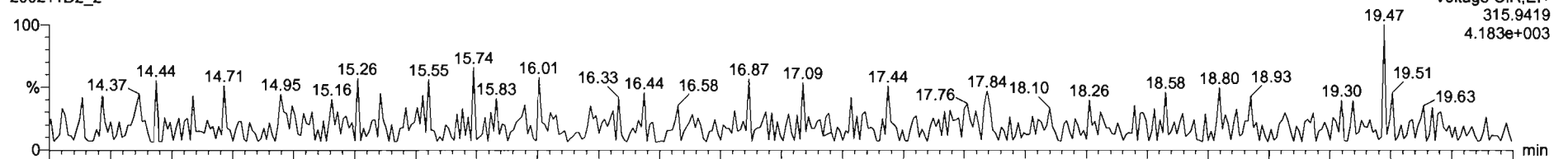
200211D2\_2



Voltage SIR,EI+  
305.899  
1.394e+006

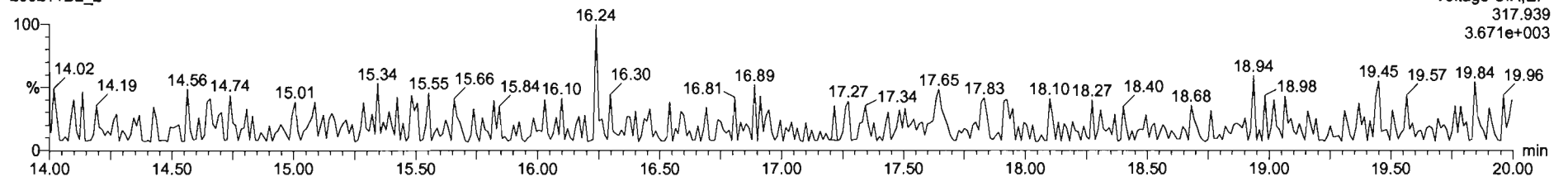
13C-2,3,7,8-TCDF

200211D2\_2



Voltage SIR,EI+  
315.9419  
4.183e+003

200211D2\_2



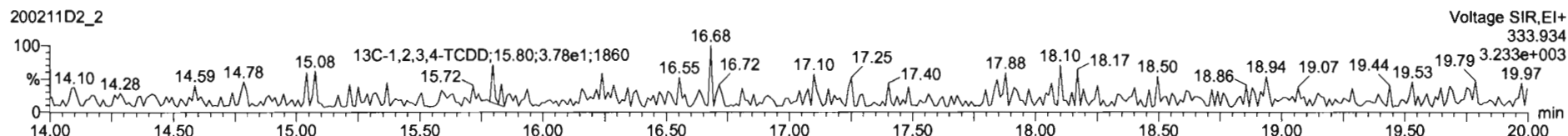
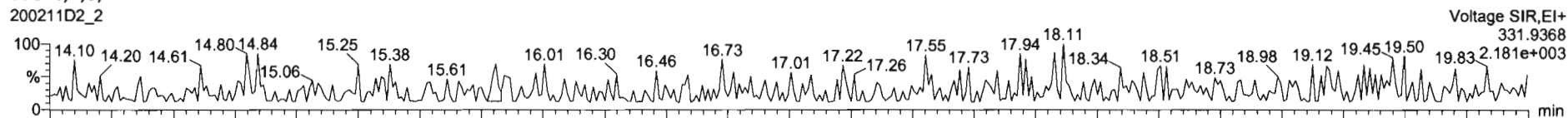
Voltage SIR,EI+  
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3.671e+003

Dataset: U:\VG7.PRO\Results\200211D2\200111D2\_2.qld

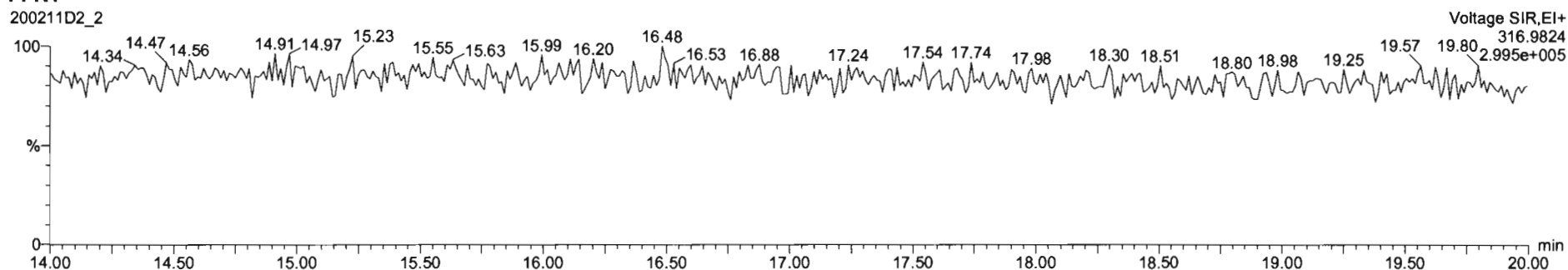
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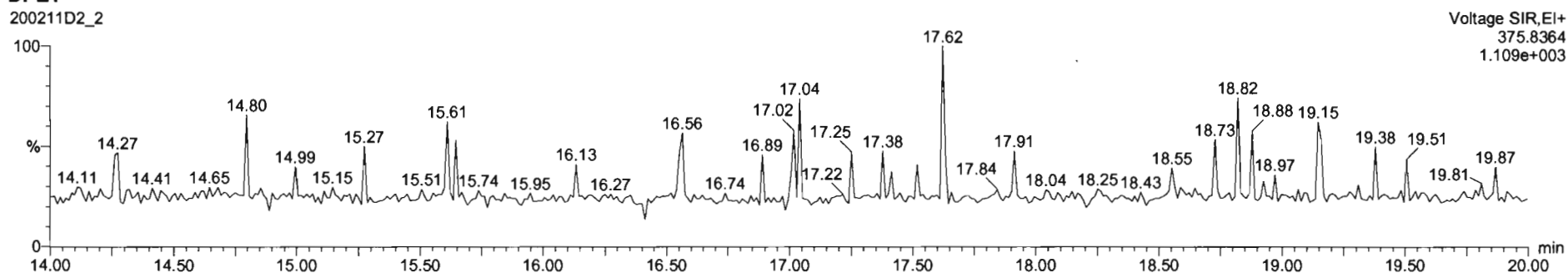
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

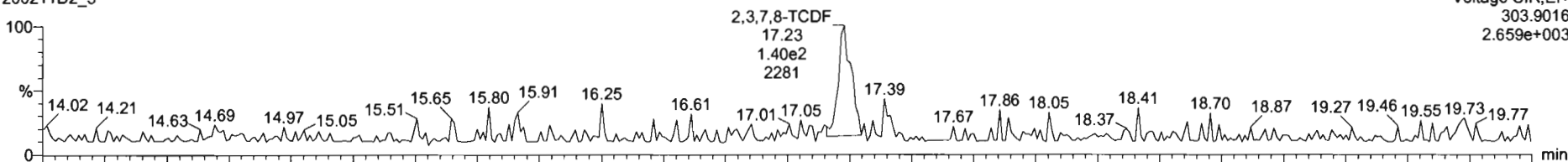
Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
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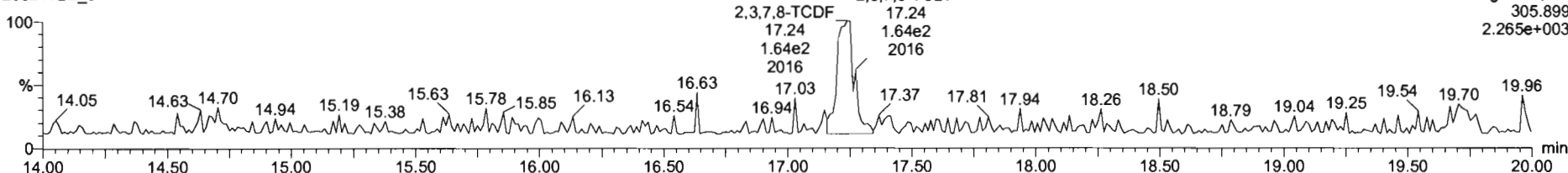
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2,3,7,8-TCDF

200211D2\_3

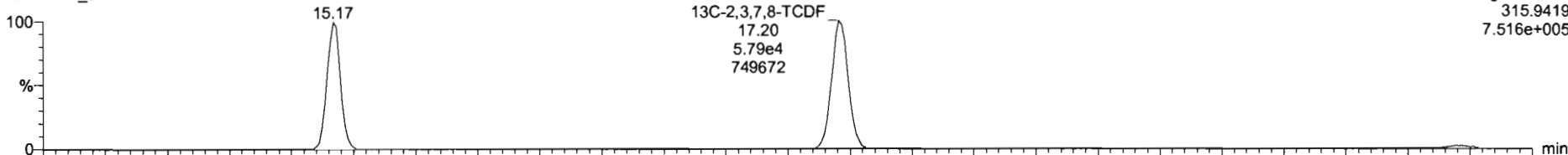


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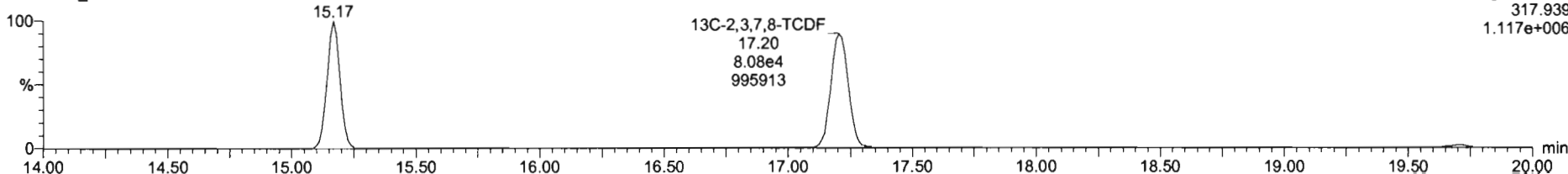


13C-2,3,7,8-TCDF

200211D2\_3



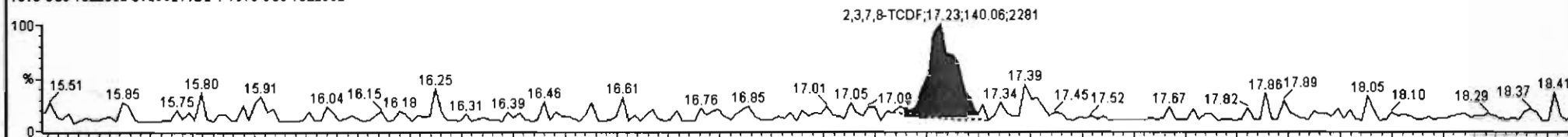
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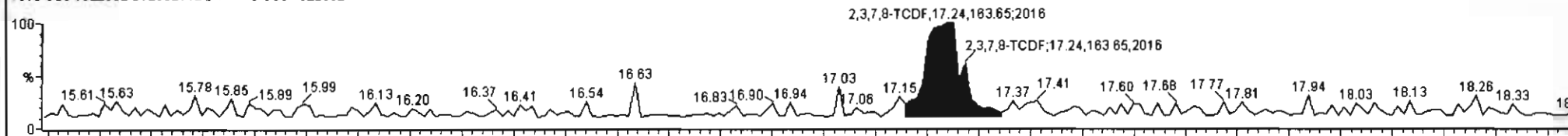
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.98	1.000	17.23	1.001	0.223	89.2	0.0831	0.223
2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	1.134	113	113	0.342	
3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	1.000	100	100	0.371	
4 13C-1,2,3,4-TCDF	1.04e5	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							

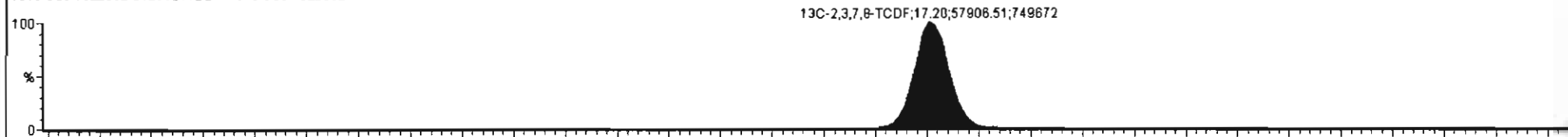
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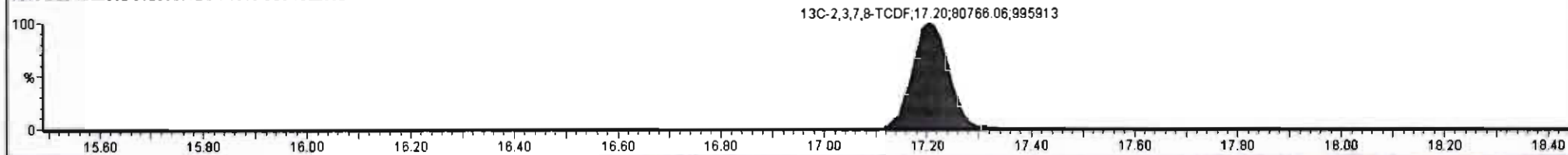
200211D2\_3  
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2\_3  
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2\_3  
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



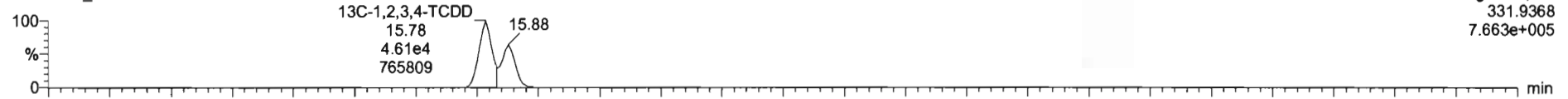
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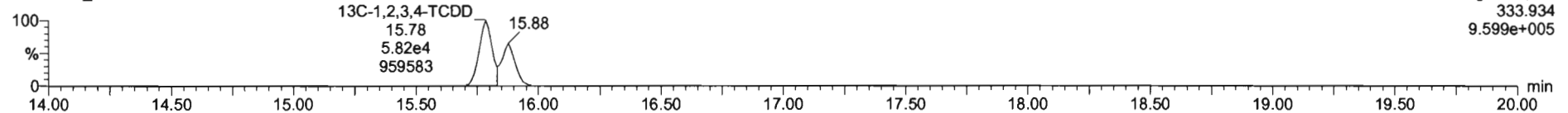
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13C-1,2,3,4-TCDD

200211D2\_3

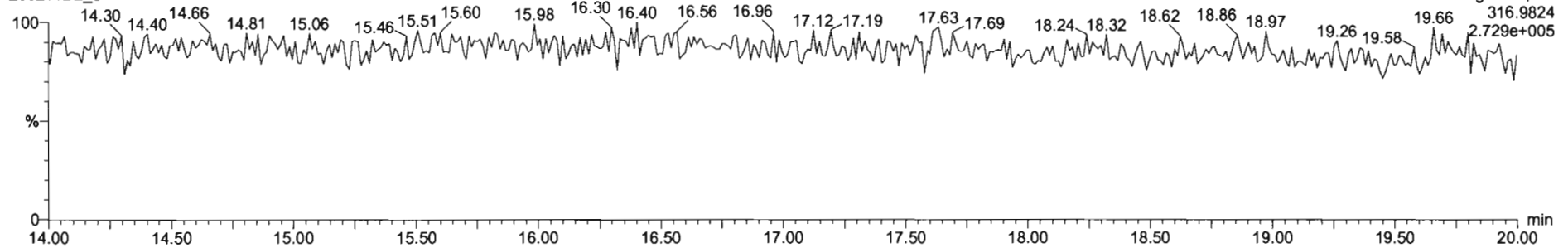


200211D2\_3



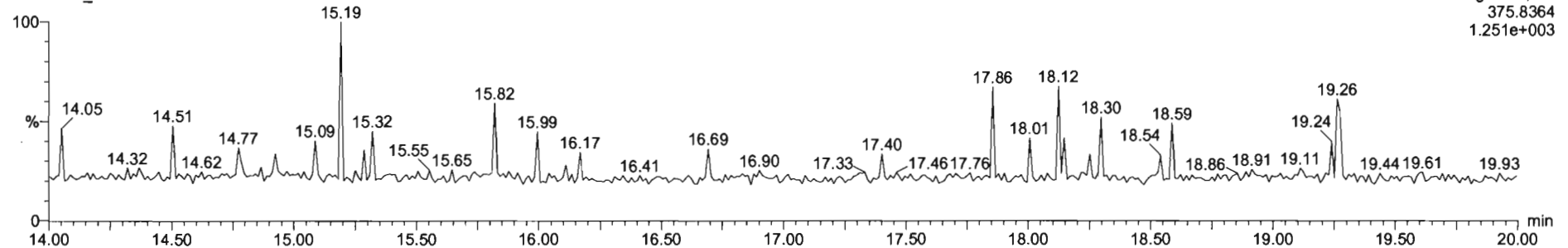
PFK1

200211D2\_3



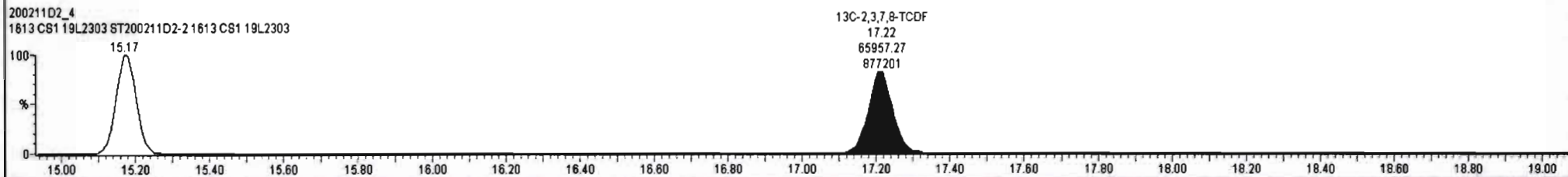
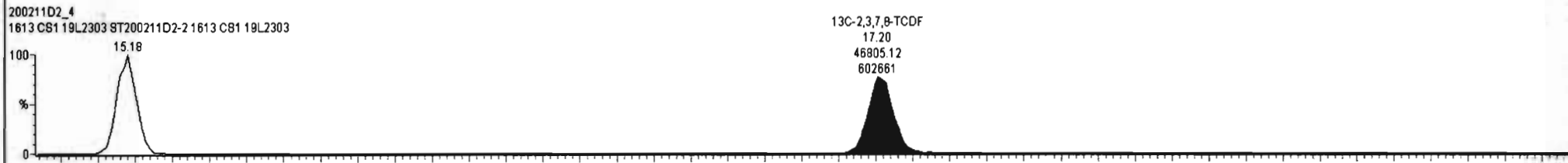
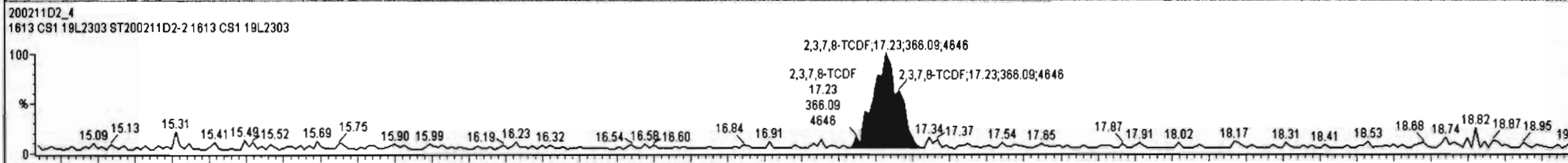
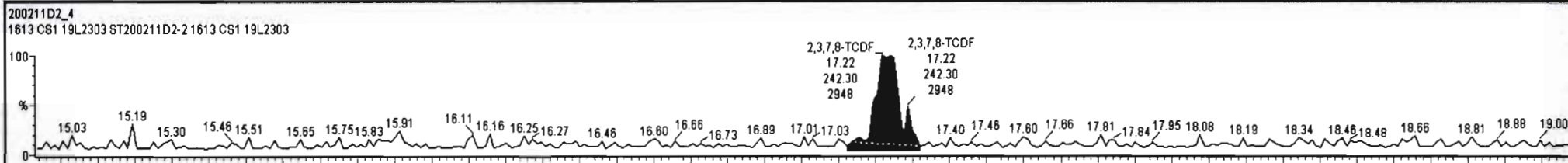
DPE1

200211D2\_3



#	Name	Resp	RA	ruy	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EWPC
1	2,3,7,8-TCDF	8.08e2	0.66	NO	0.98	1.000	17.22	1.001	0.548	110	0.147	0.548
2	13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	1.133	91.7	91.7	0.381	
3	13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	1.000	100	100	0.412	
4	13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1026.38	1.000	15.78	0.000	83.5	83.5	0.324	
5	PFK1					1.000						
6	DPF1					1.000						

#	Name	RT	int Resp	m2 Resp	RA	ruy	EWPC	Conc.
1								



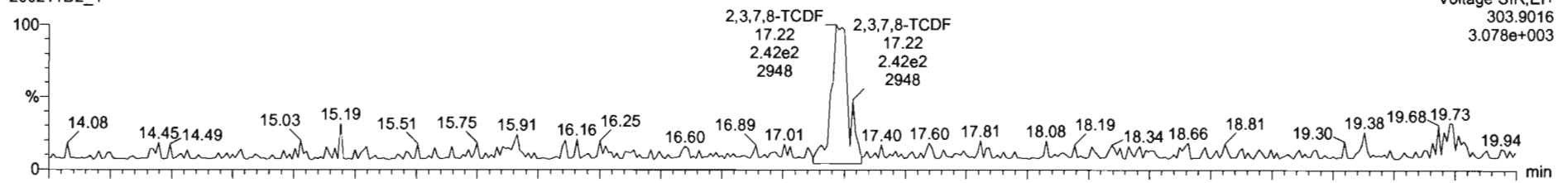
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

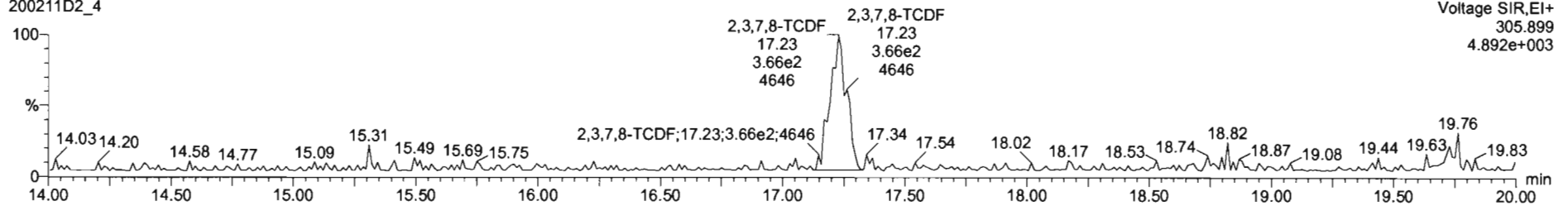
Name: 200211D2\_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200211D2\_4

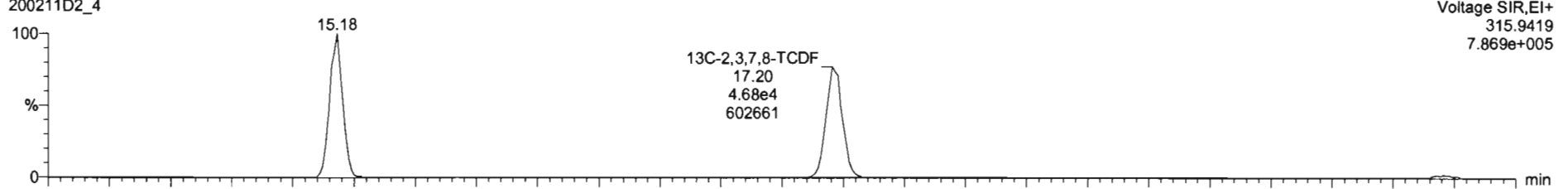


200211D2\_4

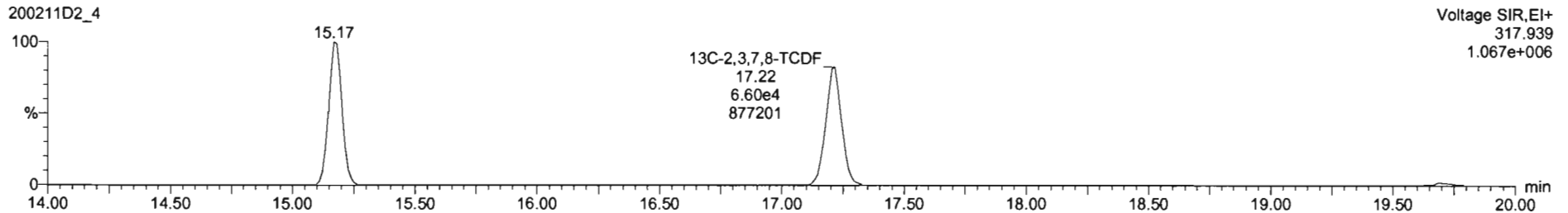


**13C-2,3,7,8-TCDF**

200211D2\_4



200211D2\_4





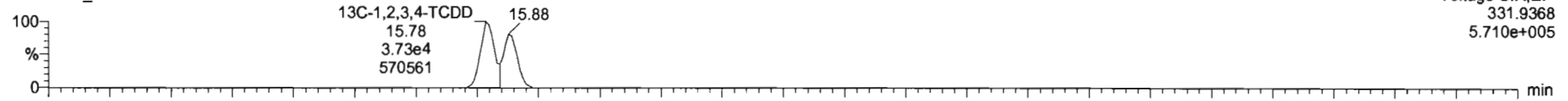
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

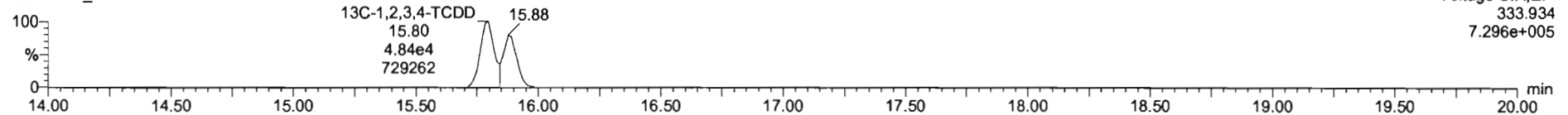
Name: 200211D2\_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200211D2\_4

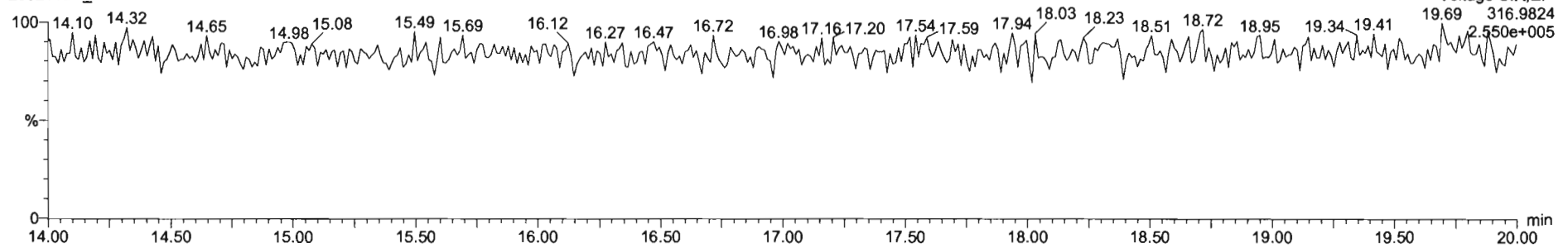


200211D2\_4



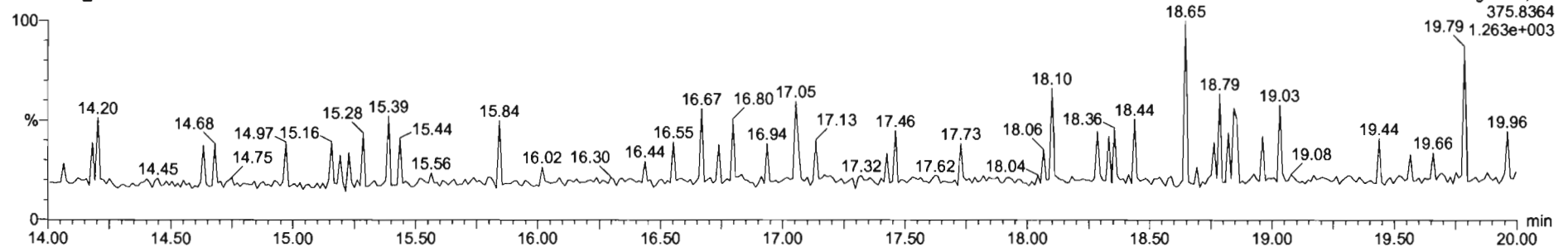
PFK1

200211D2\_4



DPE1

200211D2\_4



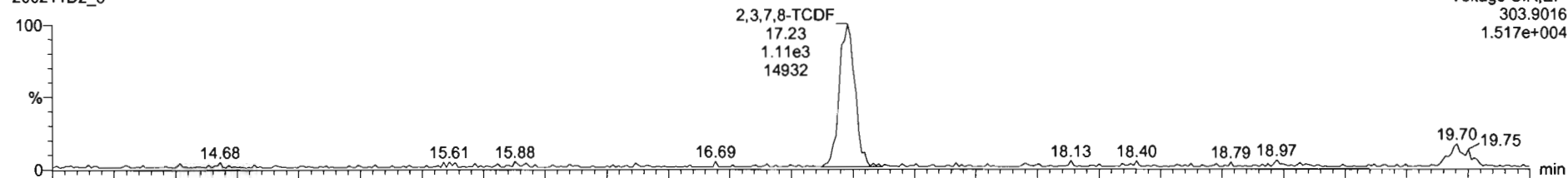
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2\_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

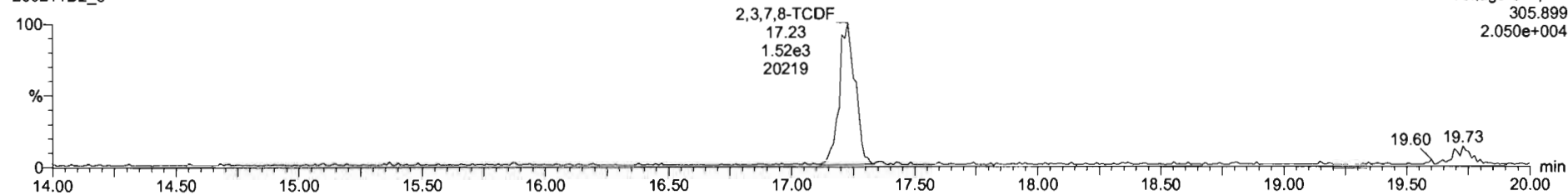
**2,3,7,8-TCDF**

200211D2\_5



Voltage SIR,EI+  
303.9016  
1.517e+004

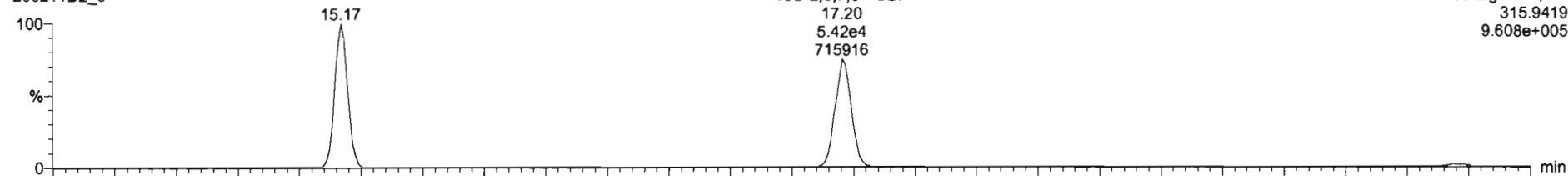
200211D2\_5



Voltage SIR,EI+  
305.899  
2.050e+004

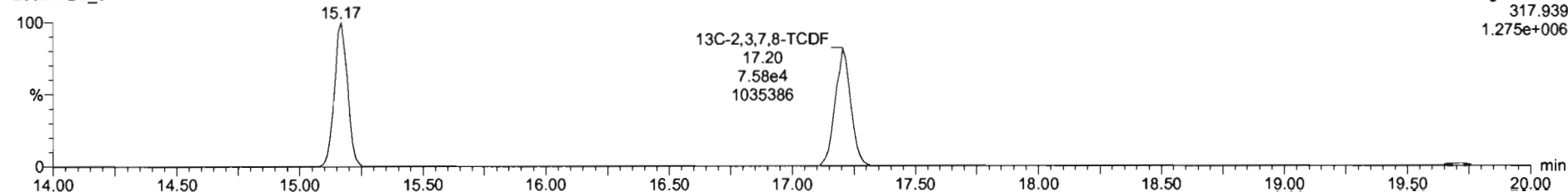
**13C-2,3,7,8-TCDF**

200211D2\_5



Voltage SIR,EI+  
315.9419  
9.608e+005

200211D2\_5



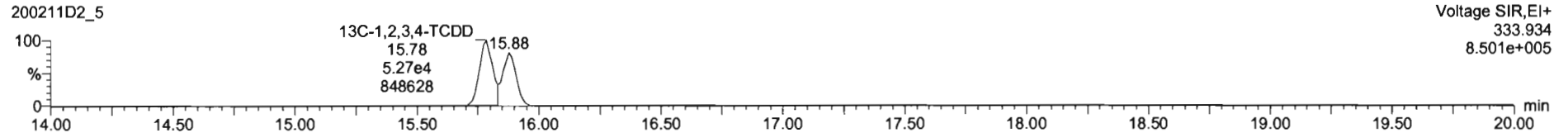
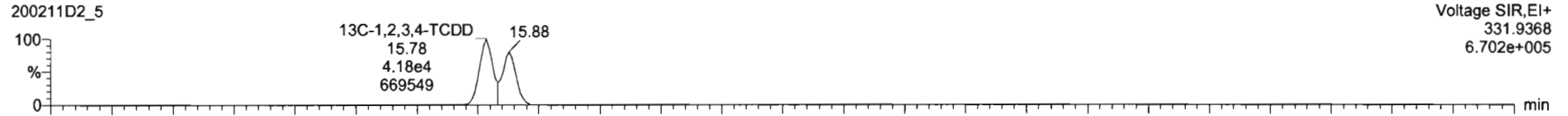
Voltage SIR,EI+  
317.939  
1.275e+006

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

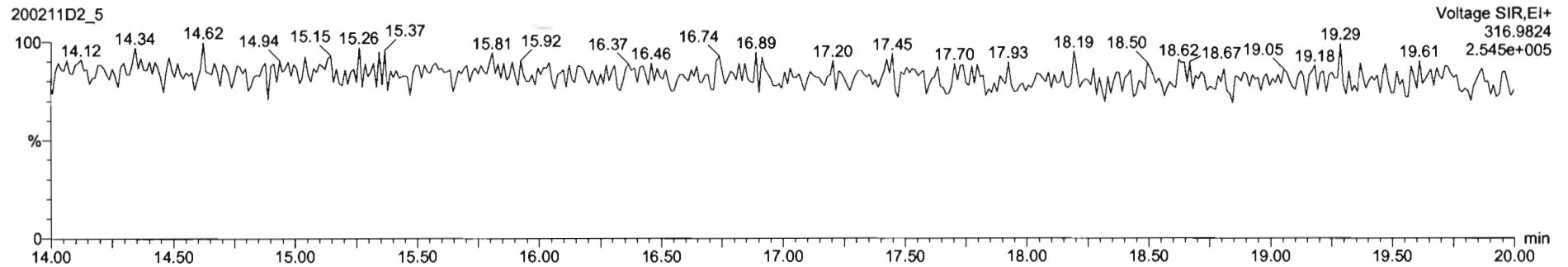
Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2\_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

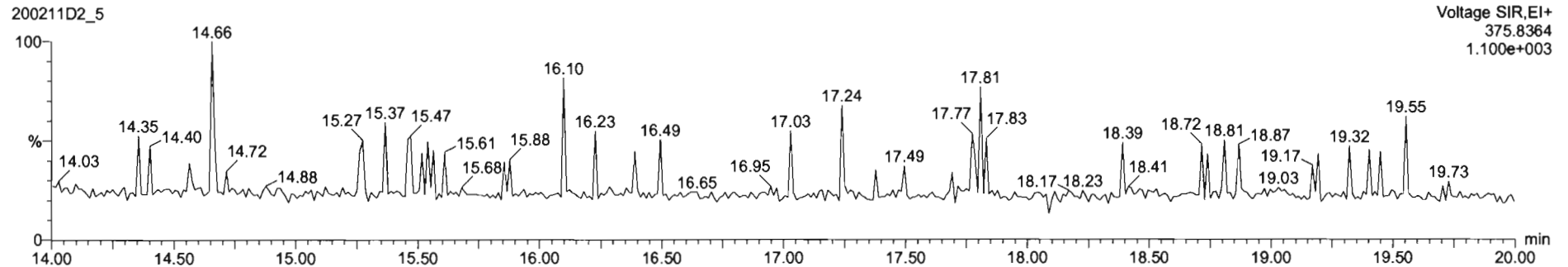
13C-1,2,3,4-TCDD



PFK1



DPE1



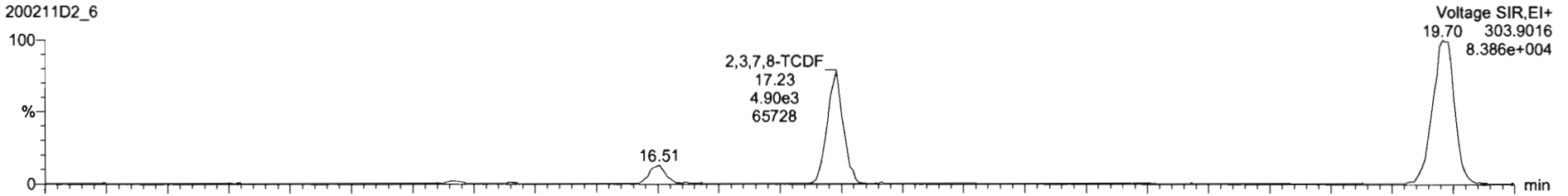
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

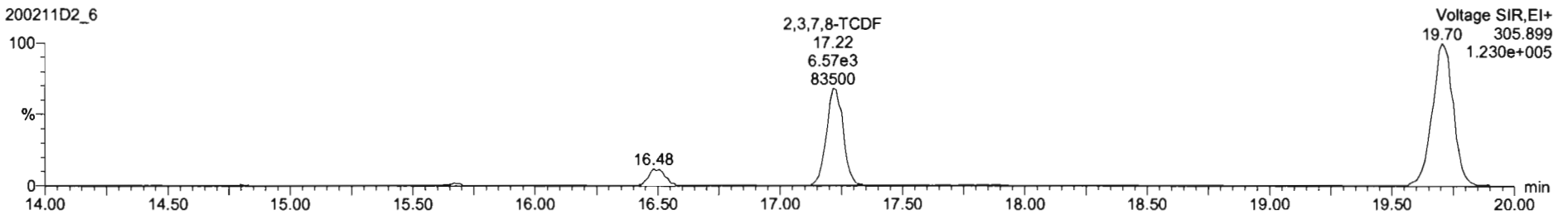
Name: 200211D2\_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200211D2\_6

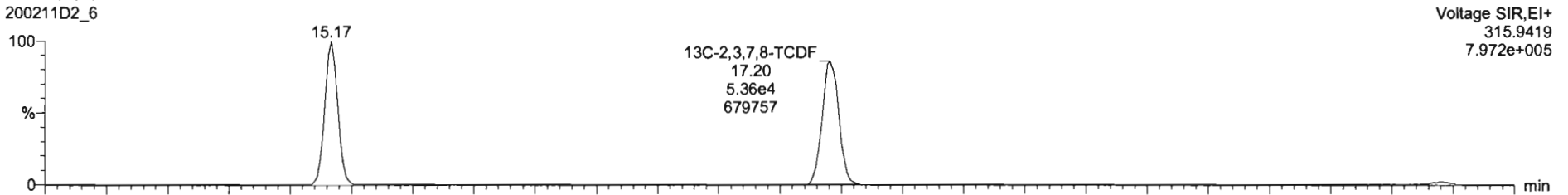


200211D2\_6

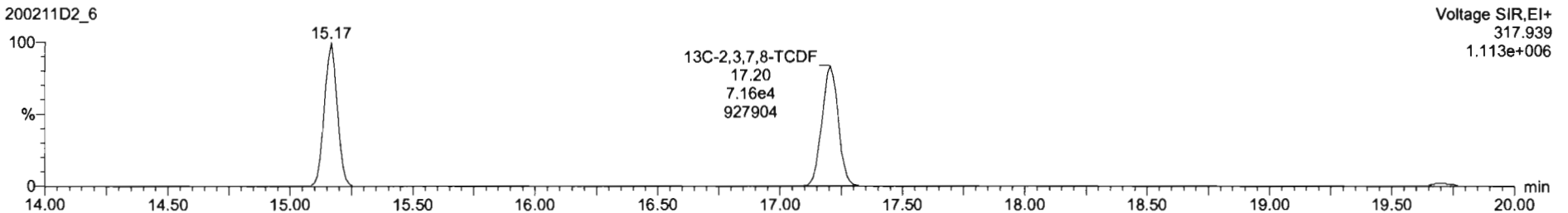


**13C-2,3,7,8-TCDF**

200211D2\_6



200211D2\_6



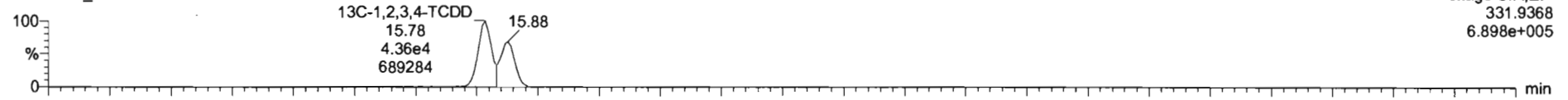
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

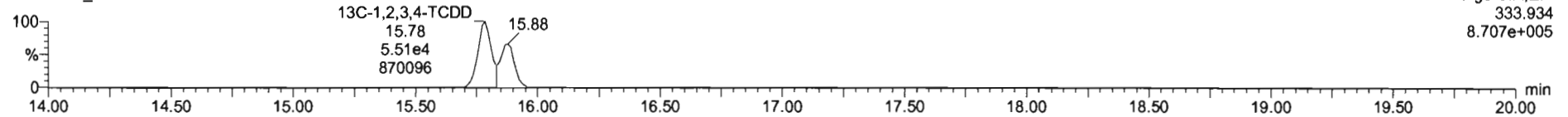
Name: 200211D2\_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200211D2\_6

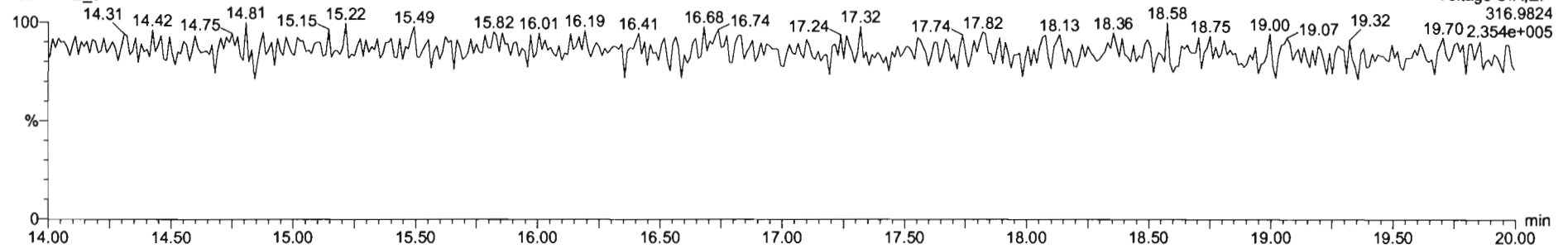


200211D2\_6



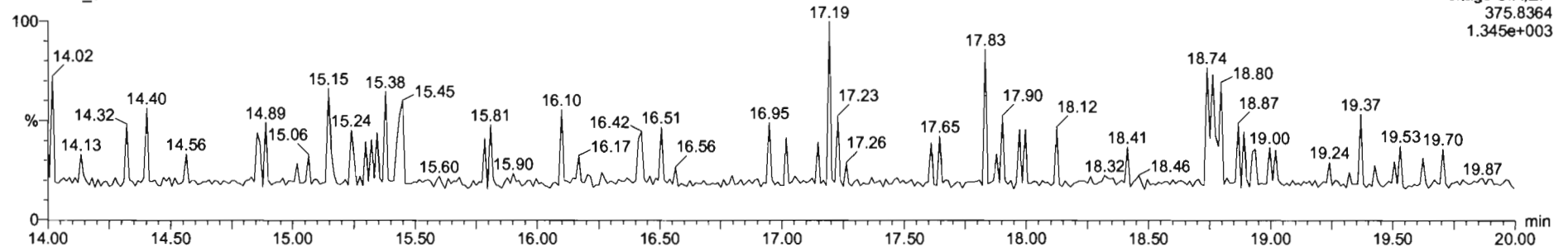
**PFK1**

200211D2\_6



**DPE1**

200211D2\_6



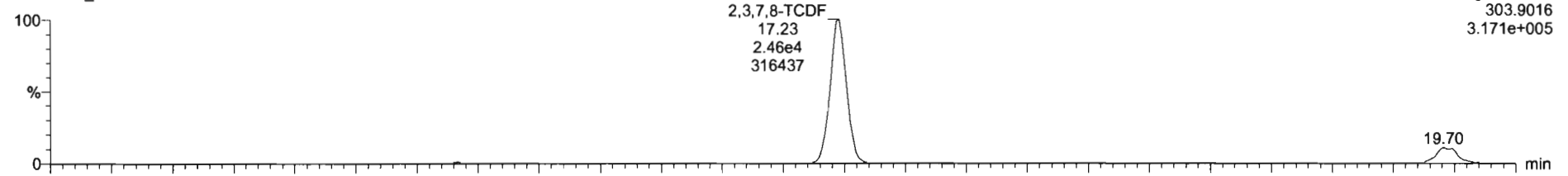
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

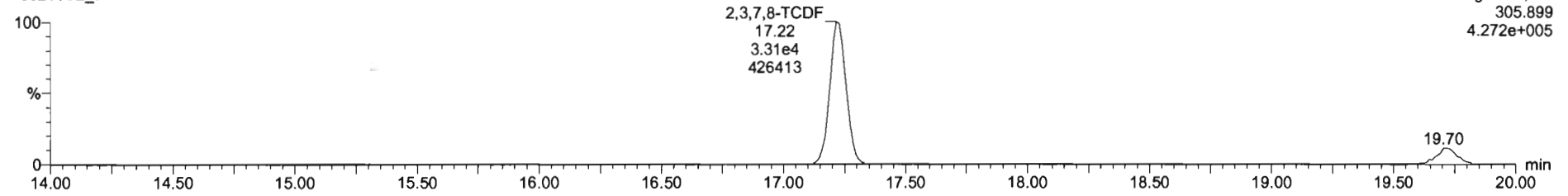
Name: 200211D2\_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200211D2\_7

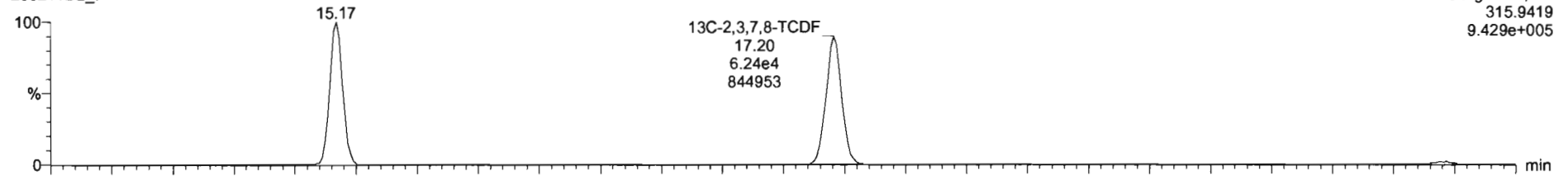


200211D2\_7

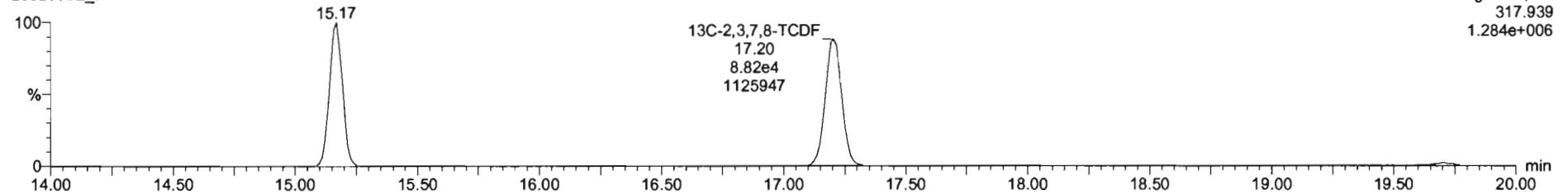


**13C-2,3,7,8-TCDF**

200211D2\_7



200211D2\_7



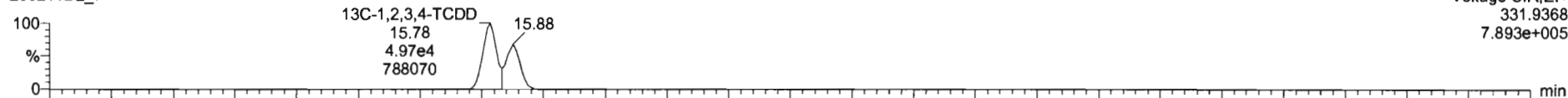
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

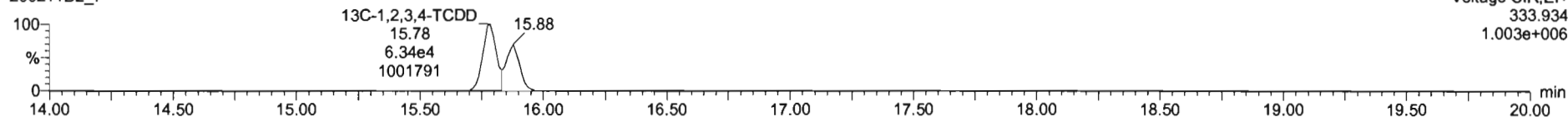
Name: 200211D2\_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200211D2\_7

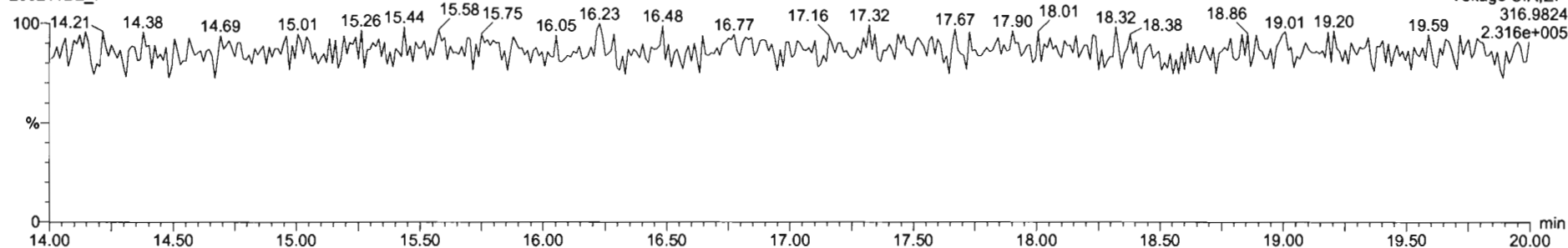


200211D2\_7



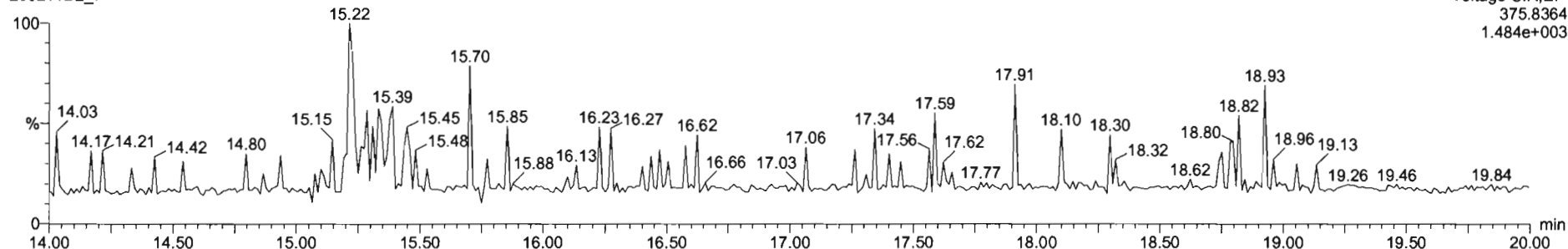
**PFK1**

200211D2\_7



**DPE1**

200211D2\_7



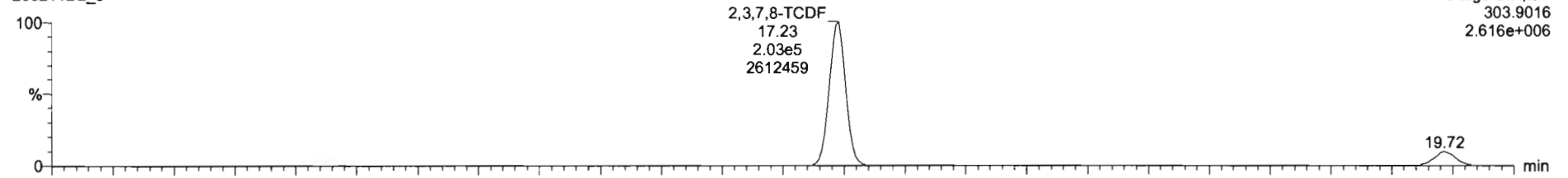
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2\_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

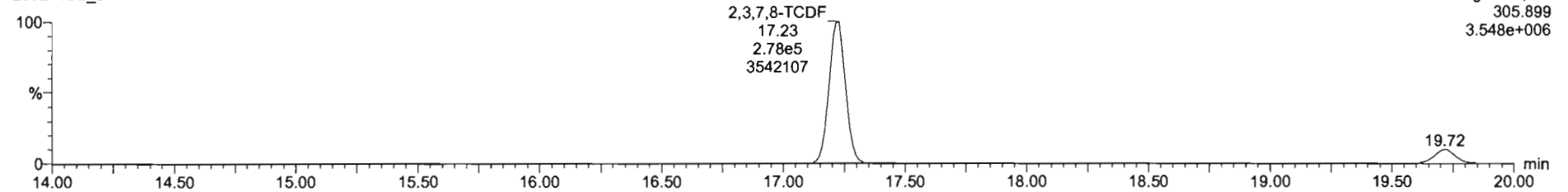
**2,3,7,8-TCDF**

200211D2\_8



Voltage SIR,EI+  
303.9016  
2.616e+006

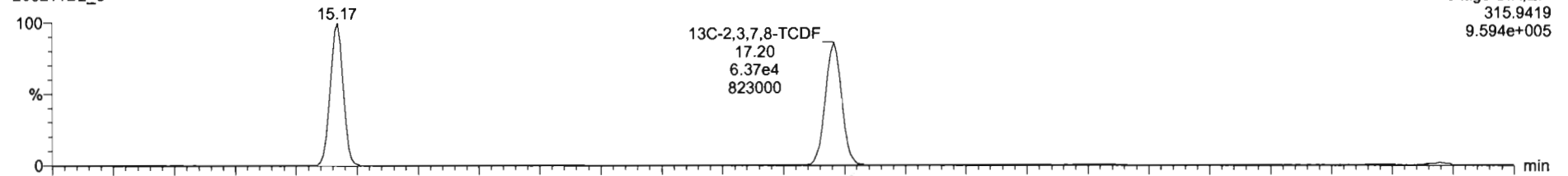
200211D2\_8



Voltage SIR,EI+  
305.899  
3.548e+006

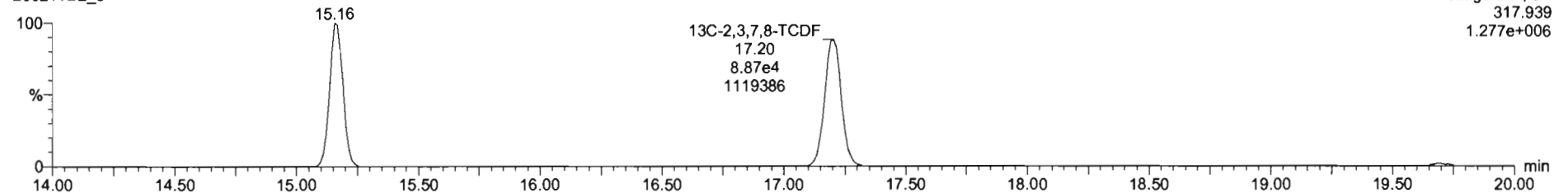
**13C-2,3,7,8-TCDF**

200211D2\_8



Voltage SIR,EI+  
315.9419  
9.594e+005

200211D2\_8



Voltage SIR,EI+  
317.939  
1.277e+006



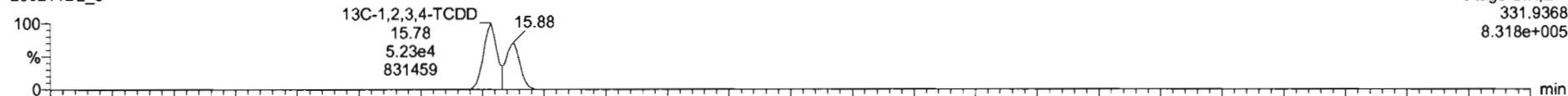
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

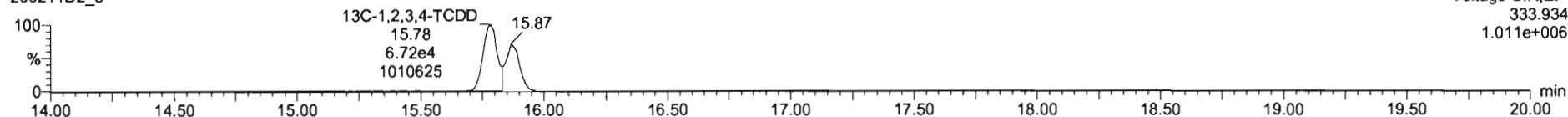
Name: 200211D2\_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200211D2\_8

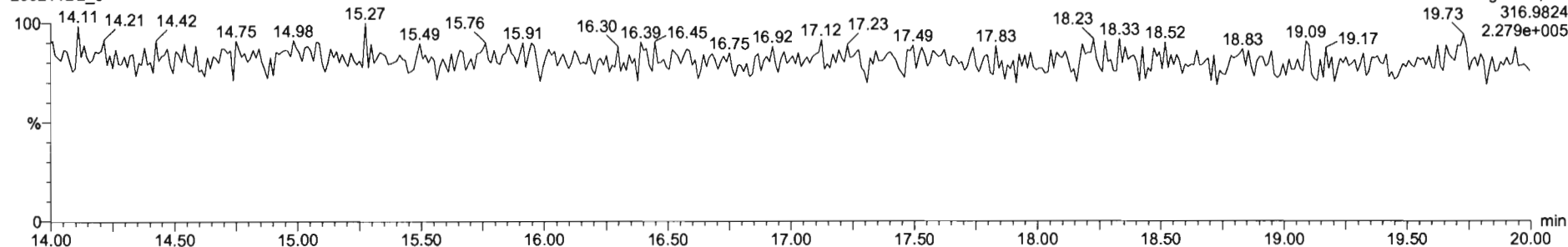


200211D2\_8



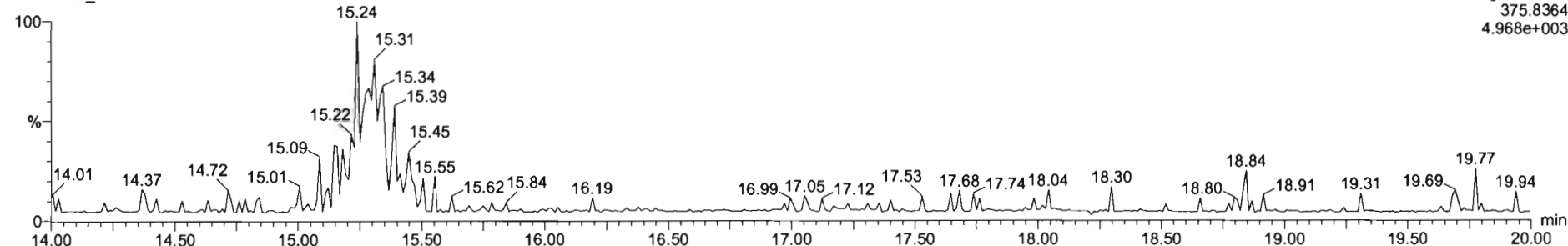
PFK1

200211D2\_8

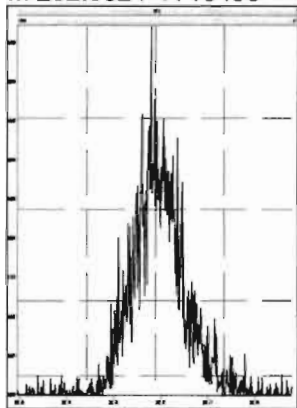


DPE1

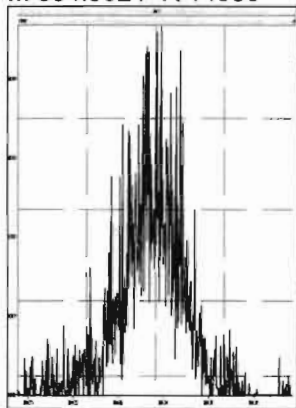
200211D2\_8



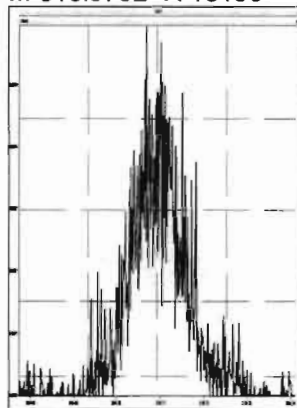
M 292.9824 R 13493



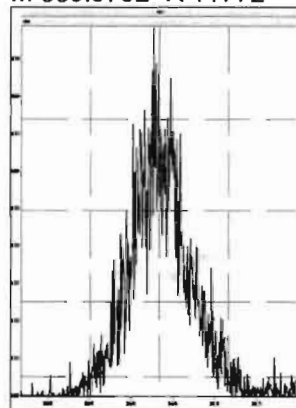
M 304.9824 R 14983



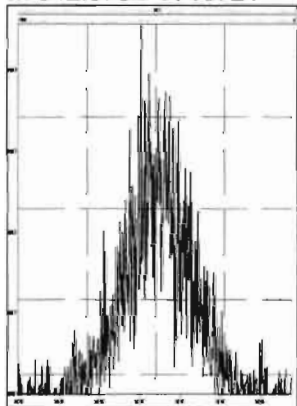
M 318.9792 R 15196



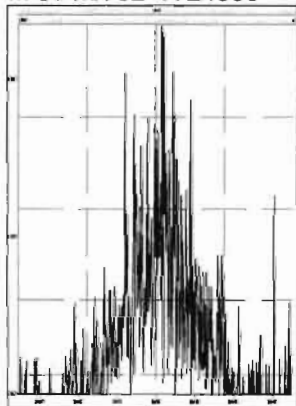
M 330.9792 R 11772



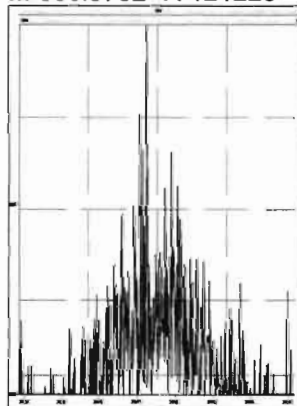
M 342.9792 R 13721



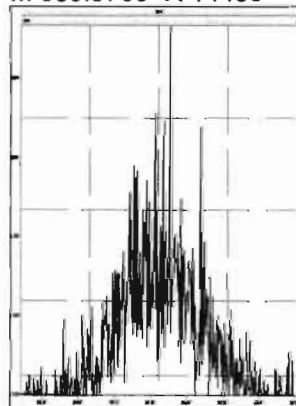
M 354.9792 R 24553



M 366.9792 R 121228



M 380.9760 R 14409



Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:52:52 Pacific Standard Time

*DB 2/12/20 07:52/2020*

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2\_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	1.29e4	0.77	NO	0.982	1.000	17.22	10.800	108	0.183
2	13C-2,3,7,8-TCDF	1.22e5	0.73	NO	1.08	1.000	17.20	92.025	92.0	0.305
3	13C-1,2,3,4-TCDF	1.22e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.330
4	13C-1,2,3,4-TCDD	8.99e4	0.76	NO	1030	1.000	15.78	87.563	87.6	0.304

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_10.qld

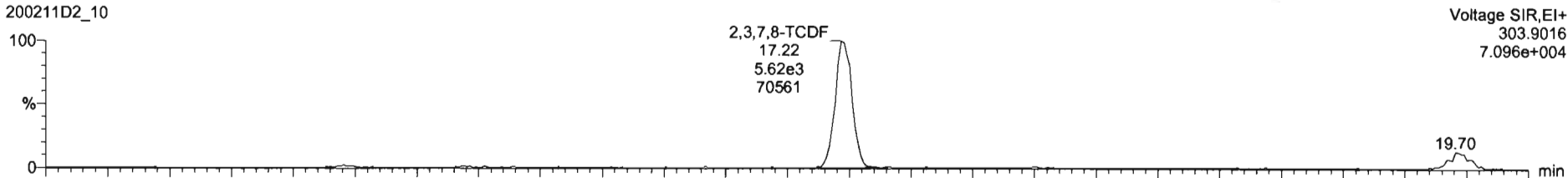
Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

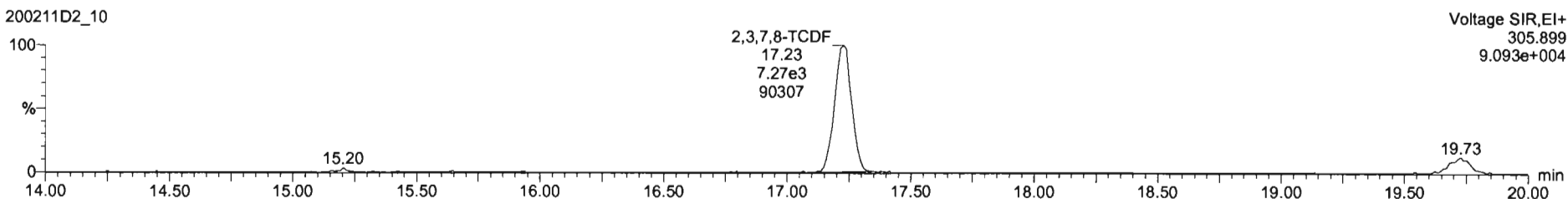
Name: 200211D2\_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200211D2\_10

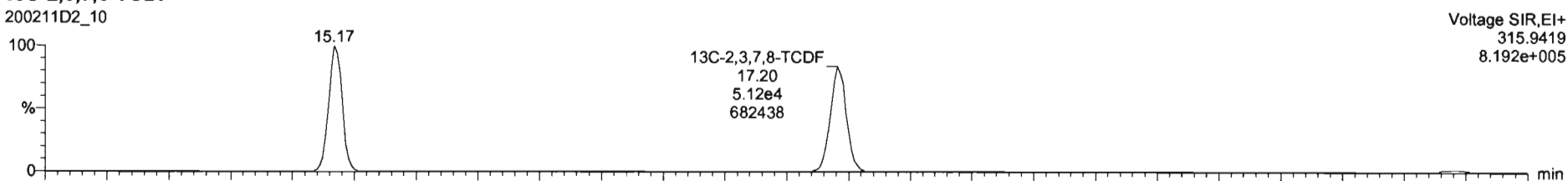


200211D2\_10

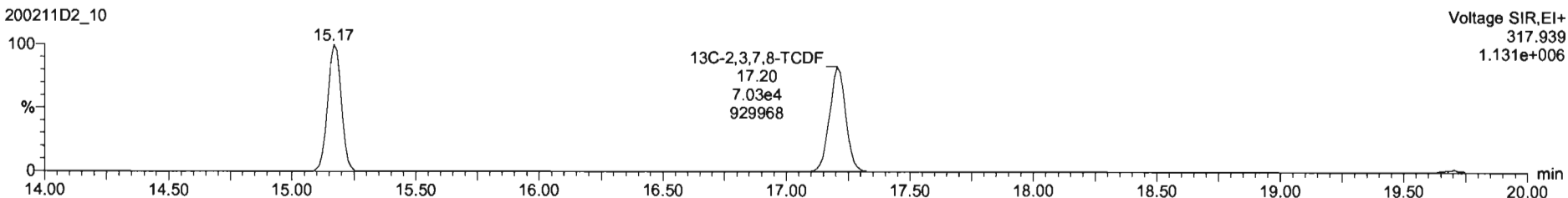


**13C-2,3,7,8-TCDF**

200211D2\_10



200211D2\_10



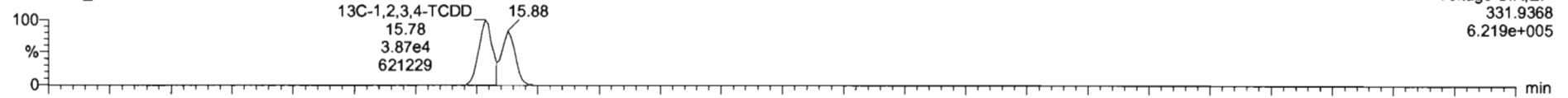
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

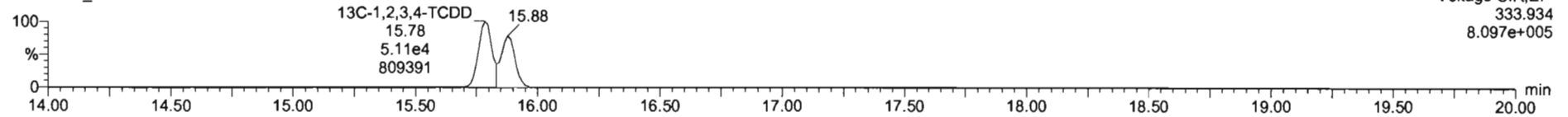
Name: 200211D2\_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200211D2\_10

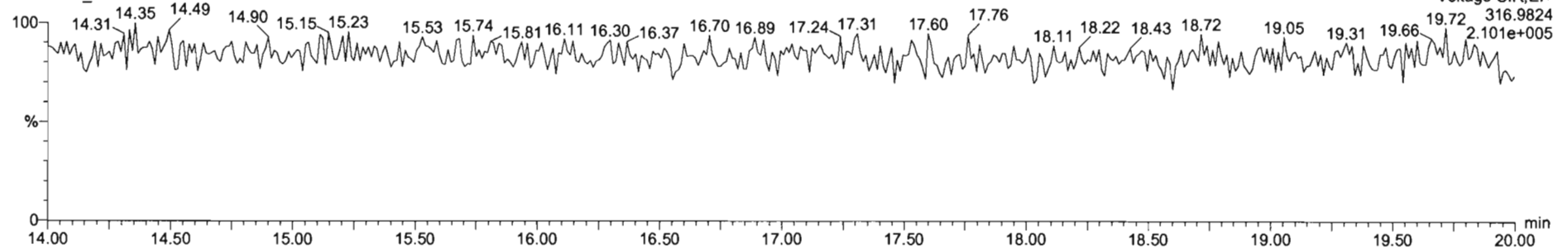


200211D2\_10



**PFK1**

200211D2\_10



**DPE1**

200211D2\_10

